284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS

PROJECT NAME : AMTRAK SAWTOOTH BRIDGES 2024

PORTAL PARTNERS TRI-VENTURE

c/o Gannett Fleming Inc. Transit and Rail System

207 Senate Avenue

Camp Hill, PA - 17011

Phone No: 610-650-8101

ORDER ID : P4578

ATTENTION : Joseph Krupansky

Laboratory Certification ID # 20012

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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC

Client : Portal Partners Tri-Venture

Project Location : NJ

Project Number : 9500000878

Laboratory Sample ID(s) : P4578

Sampling Date(s) : 10/25/2024

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **,1030,1311,1311 ZHE, 6010D, 7196A, 7470A, 7471B, 8081B, 8082A, 8151A, 8260-Low, 8260D, 8270E, 9012B, 9034, 9045D, NJEPH**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☑ Yes ☐ No
1A	Were the method specified handling, preservation, and holding time requirements met?	☐ Yes ☑ No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☑ Yes ☐ No ☐ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☐ Yes ☑ No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	☑ Yes ☐ No ☑ Yes ☐ No ☐ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☑ Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was “No” (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is “No”, the data package does not meet the requirements for “Data of Known Quality.”

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Cover Page

Order ID : P4578

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
P4578-01	WB-305-SW
P4578-02	WB-305-SW-1
P4578-03	WB-305-TOP
P4578-04	WB-305-TOP-1
P4578-05	WB-305-BOT
P4578-06	WB-305-BOT
P4578-07	WB-305-BOT-1
P4578-08	WB-305-BOT-1
P4578-09	TB-10252024

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

Date: 11/8/2024

By Nimisha Pandya, QA/QC Supervisor at 9:31 am, Nov 13, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis performed on instrument MSVOA_Y were done using GC column Rxi-624Sil MS, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator.The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for WB-305-TOP [4-Bromofluorobenzene - 58%]this compound did not meet the NJDKQP criteria but met the in-house criteria

The Internal Standards Areas met the acceptable requirements except for WB-305-TOP VIAL A analyzed but Internal Standard failing as a corrective cation VIAL B analyzed but not match with First run therefore VIAL A reported as final analysis and VIAL B data Provided in Miscellaneous Section.

The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .

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The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

The Continuous Calibration File ID VX043583.D met the requirements except for Methyl Acetate failing marginally low therefore no corrective action taken.

The Continuous Calibration File ID VY020049.D met the requirements except for Acetone failing high but no positive hit in associated sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
The Sample #TB-10252024 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:32 am, Nov 13, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP VOA.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of TCLP VOA was based on method 8260D and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial

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Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:32 am, Nov 13, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_E using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for
WB-305-SW [2-Fluorobiphenyl - 19%, 2-Fluorophenol - 9%, Nitrobenzene-d5 - 17%, Phenol-d6 - 8%, Terphenyl-d14 - 23%],
WB-305-SWRE [2-Fluorobiphenyl - 17%, 2-Fluorophenol - 9%, Nitrobenzene-d5 - 17%, Phenol-d6 - 9%, Terphenyl-d14 - 24%],
WB-305-SW-1RE [2-Fluorobiphenyl - 23%, 2-Fluorophenol - 14%, Nitrobenzene-d5 - 24%, Phenol-d6 - 12%, Terphenyl-d14 - 27%] these surrogates did not meet the NJDKQP criteria and in-house criteria While
WB-305-SW [2,4,6-Tribromophenol - 20%],
WB-305-SWRE [2,4,6-Tribromophenol - 23%],
WB-305-SW-1 [Nitrobenzene-d5 - 43%, 2-Fluorobiphenyl - 46%],
WB-305-SW-1RE [2,4,6-Tribromophenol - 28%], these surrogates did not meet the in-house criteria but met the NJDKQP criteria, all samples were reanalyzed to confirm the failure and reported.

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The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {P4561-05MS} with File ID: BF140105.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[58%], 3-Nitroaniline[50%], 4,6-Dinitro-2-methylphenol[142%], 4-Chloroaniline[23%], Benzo(g,h,i)perylene[69%] and Hexachlorocyclopentadiene[170%] these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The MSD {P4561-05MSD} with File ID: BF140106.D recoveries met the acceptable requirements except for 3,3-Dichlorobenzidine[61%], 3-Nitroaniline[49%], 4,6-Dinitro-2-methylphenol[142%], 4-Chloroaniline[23%], Benzo(g,h,i)perylene[68%] and Hexachlorocyclopentadiene[161%] these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The RPD met criteria .
The Blank Spike for {PB164533BS} with File ID: BE101427.D met requirements for all samples except for 4-Chloroaniline[66%] this compound did not meet the NJDKQP criteria but met the in-house criteria while Hexachlorocyclopentadiene[200%] this compound did not meet the NJDKQP criteria and in-house criteria, are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The % RSD is greater than 20% in the Initial Calibration method (Method 8270-BE102824.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The % RSD is greater than 20% in the Initial Calibration (8270-BF101824.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The Continuous Calibration File ID BF140100.D met the requirements except for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BF140113.D met the requirements except for 2,4-Dinitrophenol,2-Nitrophenol,4,6-Dinitro-2-methylphenol,Bis(2-ethylhexyl)phthalate and Di-n-octyl phthalate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BF140152.D met the requirements except for 2,4-Dinitrophenol,2,4-Dinitrotoluene,2-Nitrophenol,4,6-Dinitro-2-methylphenol,4-Nitroaniline,Bis(2-ethylhexyl)phthalate,Butylbenzylphthalate and Di-n-octyl phthalate are failing high but no positive hit in associate sample therefore no corrective action taken.

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The Continuous Calibration File ID BF140176.D met the requirements except for 2,4-Dinitrophenol,2,4-Dinitrotoluene,2-Nitrophenol,4,6-Dinitro-2-methylphenol,4-Nitroaniline,Bis(2-ethylhexyl)phthalate,Butylbenzylphthalate and Di-n-octyl phthalate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BF140200.D met the requirements except for 2,4-Dinitrophenol,2,4-Dinitrotoluene,2-Nitrophenol,4,6-Dinitro-2-methylphenol,4-Nitroaniline,4-Nitrophenol,Bis(2-ethylhexyl)phthalate,Butylbenzylphthalate and Di-n-octyl phthalate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:32 am, Nov 13, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP BNA.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df The analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

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E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:32 am, Nov 13, 2024

284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: TCLP Pesticide

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP Pesticide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_L. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11 The rear column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. .The analysis of TCLP Pesticides was based on method 8081B and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:

F. Manual Integration Comments:

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Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:33 am, Nov 13, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: PCB

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

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The Continuous Calibration File ID PO107451.D met the requirements except for Aroclor-1016(Peak-03) is failing in 1st column but passing in 2nd column and Decachlorobiphenyl is failing in 2nd column but passing in 1st column therefore no corrective action taken.

E. Additional Comments:
Less volume was taken for samples # WB-305-SW, WB-305-SW-1 at the extraction due to Limited volume received.

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:33 am, Nov 13, 2024

284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP Herbicide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for WB-305-BOT [2,4-DCAA(1) - 68%, 2,4-DCAA(2) - 56%], WB-305-BOTMS [2,4-DCAA(2) - 58%], WB-305-BOTMSD [2,4-DCAA(2) - 60%], WB-305-BOT-1 [2 and4-DCAA(2) - 61%], PB164393TB[2 and4-DCAA(2) - 58%],these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Retention Times were acceptable for all samples.

The MS {P4578-06MS} with File ID: PS028291.D recoveries met the requirements for all compounds except for 2,4,5-TP(Silvex)[144%]this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

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The MSD {P4578-06MSD} with File ID: PS028292.D recoveries met the acceptable requirements except for 2,4,5-TP(Silvex)[143%],this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:33 am, Nov 13, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: EPH

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for EPH.

C. Analytical Techniques:
The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analyses were performed on instrument FID_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis were performed on instrument FID_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of EPHs was based on method NJEPH and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL,Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils) and 3010 (waters).The analysis and digestion of Mercury was based on method 7470A. The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
Sample WB-305-SW was diluted due to high concentrations for Sodium & Sample WB-305-SW-1 was diluted due to high concentrations for Sodium & Sample WB-305-TOP was diluted due to high concentrations for Mercury & Sample WB-305-TOP-1 was diluted due to high concentrations for Chromium and Mercury.
The Blank Spike met requirements for all samples.
The Duplicate (BP-F-20DUP) analysis met criteria for all samples except for Calcium due to sample matrix interferece.
The Matrix Spike (BP-F-20MS) analysis met criteria for all samples except for Beryllium and Selenium due to Chemical Interference during Digestion Process. The Matrix Spike (MW-1MS) analysis met criteria for all samples except for Silver and Zinc due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (BP-F-20MSD) analysis met criteria for all samples except for Beryllium and Selenium due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (MW-1MSD) analysis met criteria for all samples except for Silver and Zinc due to Chemical Interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.
The Serial Dilution (BP-F-20L) met criteria for all samples except for Aluminum, Calcium, Chromium, Copper, Iron, Magnesium and Manganese sample matrix interference.

E. Additional Comments:

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Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:33 am, Nov 13, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: TCLP Mercury,TCLP ICP Metals

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP Mercury,TCLP ICP Metals.

C. Analytical Techniques:
The analysis of TCLP ICP Metals was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed

above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:34 am, Nov 13, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: Hexavalent Chromium,Corrosivity,trivalent Chromium,Ignitability,Reactive Cyanide,Reactive Sulfide

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Hexavalent Chromium,Corrosivity,trivalent Chromium,Ignitability,Reactive Cyanide,Reactive Sulfide.

C. Analytical Techniques:
The analysis of Ignitability was based on method 1030, The analysis of Trivalent Chromium was based on method 6010D, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034 and The analysis of Corrosivity was based on method 9045D.

D. QA/ QC Samples:
The Holding Times were met for all samples except for WB-305-BOT of Corrosivity, for WB-305-BOT-1 of Corrosivity as samples were receive out of holding time.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:34 am, Nov 13, 2024

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DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4578**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **SOHIL JODHANI** **Date:** **11/08/2024**

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Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**WB-305-SW**								
P4578-01	WB-305-SW	Water	Acetone		2.20	J	1.40	5.00	ug/L
P4578-01	WB-305-SW	Water	Methylene Chloride		0.36	J	0.32	1.00	ug/L
			Total Voc :		2.56				
			Total Concentration:		2.56				
Client ID:	**WB-305-SW-1**								
P4578-02	WB-305-SW-1	Water	Acetone		2.40	J	1.40	5.00	ug/L
			Total Voc :		2.40				
			Total Concentration:		2.40				
Client ID:	**WB-305-TOP**								
P4578-03	WB-305-TOP	SOIL	Acetone		80.6		9.70	38.8	ug/Kg
P4578-03	WB-305-TOP	SOIL	Methyl Acetate		54.2		2.80	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	2-Butanone		18.5	J	8.80	38.8	ug/Kg
P4578-03	WB-305-TOP	SOIL	Methylcyclohexane		2.30	J	1.30	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	Toluene		20.4		1.00	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	Ethyl Benzene		1.60	J	0.96	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	m/p-Xylenes		5.20	J	2.10	15.5	ug/Kg
P4578-03	WB-305-TOP	SOIL	o-Xylene		5.40	J	1.10	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	Isopropylbenzene		7.10	J	1.00	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	1,3-Dichlorobenzene		2.10	J	1.10	7.80	ug/Kg
			Total Voc :		197				
P4578-03	WB-305-TOP	SOIL	unknown14.005	*	130	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown14.535	*	140	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 1,2,4,5-tetramethyl-	*	270	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	o-Cymene	*	140	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 1-methyl-3-(1-methyl	*	320	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 1-ethenyl-4-methyl-	*	160	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	1H-Indene, 2,3-dihydro-5-meth	*	160	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	3-Phenylbut-1-ene	*	350	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 2-ethyl-1,4-dimethyl-	*	110	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 2-ethyl-1,3-dimethyl-	*	360	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	n-propylbenzene	*	2.70	J	0.99	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	1,3,5-Trimethylbenzene	*	9.50	J	0.99	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	1,2,4-Trimethylbenzene	*	47.8	J	2.10	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	sec-Butylbenzene	*	4.40	J	1.00	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	p-Isopropyltoluene	*	5.60	J	0.90	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	n-Butylbenzene	*	24.2	J	0.98	7.80	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P4578-03	WB-305-TOP	SOIL	1,4-Dioxane	*	200	J	65.9	160	ug/Kg
			Total Tics :		2430				
			Total Concentration:		2630				
Client ID:	**WB-305-TOP-1**								
P4578-04	WB-305-TOP-1	SOIL	Acetone		48.0		7.40	29.6	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Carbon Disulfide		3.60	J	1.50	5.90	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Methyl Acetate		91.9		2.10	5.90	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	2-Butanone		12.7	J	6.70	29.6	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Methylcyclohexane		1.90	J	1.00	5.90	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Toluene		4.20	J	0.79	5.90	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	o-Xylene		3.40	J	0.83	5.90	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Isopropylbenzene		5.00	J	0.79	5.90	ug/Kg
			Total Voc :		171				
P4578-04	WB-305-TOP-1	SOIL	unknown14.529	*	60.2	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzene, 1,2,3,5-tetramethyl-	*	110	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Tridecane	*	55.0	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	1H-Indene, 2,3-dihydro-5-meth	*	86.6	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	3-Phenylbut-1-ene	*	190	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzene, 1-ethyl-3,5-dimethyl-	*	150	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzene, 4-ethyl-1,2-dimethyl-	*	120	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzene, 1-methyl-2-(2-propen	*	59.9	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	n-propylbenzene	*	1.20	J	0.76	5.90	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	1,3,5-Trimethylbenzene	*	6.10	J	0.76	5.90	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	1,2,4-Trimethylbenzene	*	24.9	J	1.60	5.90	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	p-Isopropyltoluene	*	2.60	J	0.69	5.90	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	n-Butylbenzene	*	5.70	J	0.75	5.90	ug/Kg
			Total Tics :		872				
			Total Concentration:		1040				
Client ID:	**WB-305-BOT**								
P4578-05	WB-305-BOT	SOIL	Carbon Disulfide		1.70	J	0.96	3.80	ug/Kg
			Total Voc :		1.70				
P4578-05	WB-305-BOT	SOIL	Benzene, 1,2,4,5-tetramethyl-	*	17.3	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	p-Cymene	*	7.20	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	o-Cymene	*	6.70	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	1H-Indene, 2,3-dihydro-5-meth	*	8.50	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Benzene, 1-ethyl-2,3-dimethyl-	*	20.1	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Benzene, 1-ethyl-3,5-dimethyl-	*	23.7	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P4578-05	WB-305-BOT	SOIL	Benzene, 2-ethyl-1,4-dimethyl-	*	8.30	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Benzene, 1,3-diethyl-5-methyl-	*	8.20	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Cyclopropane, 1-methyl-1-pher	*	23.1	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	1,4-Cyclohexadiene, 3-ethenyl-	*	7.60	J	0	0	ug/Kg
			Total Tics :		131				
			Total Concentration:		132				
Client ID:	**WB-305-BOT-1**								
P4578-07	WB-305-BOT-1	SOIL	Naphthalene, 1,3-dimethyl-	*	8.10	J	0	0	ug/Kg
			Total Tics :		8.10				
			Total Concentration:		8.10				
Client ID:	**TB-10252024**								
P4578-09	TB-10252024	Water	Acetone		1.70	J	1.40	5.00	ug/L
			Total Voc :		1.70				
			Total Concentration:		1.70				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043597.D	1		10/29/24 15:15	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	2.20	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.36	J	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043597.D	1		10/29/24 15:15	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.0		70 (74) - 130 (125)	88%	SPK: 50
1868-53-7	Dibromofluoromethane	46.8		70 (75) - 130 (124)	94%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	142000	5.55			
540-36-3	1,4-Difluorobenzene	262000	6.757			
3114-55-4	Chlorobenzene-d5	231000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	101000	12.024			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043597.D	1		10/29/24 15:15	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043598.D	1		10/29/24 15:38	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	2.40	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043598.D	1		10/29/24 15:38	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.3		70 (74) - 130 (125)	87%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 (75) - 130 (124)	92%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		70 (77) - 130 (121)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	158000	5.55			
540-36-3	1,4-Difluorobenzene	289000	6.757			
3114-55-4	Chlorobenzene-d5	249000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	108000	12.024			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043598.D	1		10/29/24 15:38	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.8
Sample Wt/Vol:	5.99 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020033.D	1		10/28/24 11:56	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.60	U	2.60	7.80	ug/Kg
74-87-3	Chloromethane	1.80	U	1.80	7.80	ug/Kg
75-01-4	Vinyl Chloride	1.20	U	1.20	7.80	ug/Kg
74-83-9	Bromomethane	1.60	U	1.60	7.80	ug/Kg
75-00-3	Chloroethane	1.60	U	1.60	7.80	ug/Kg
75-69-4	Trichlorofluoromethane	1.40	U	1.40	7.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.70	U	1.70	7.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	7.80	ug/Kg
67-64-1	Acetone	80.6		9.70	38.8	ug/Kg
75-15-0	Carbon Disulfide	2.00	U	2.00	7.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.00	U	1.00	7.80	ug/Kg
79-20-9	Methyl Acetate	54.2		2.80	7.80	ug/Kg
75-09-2	Methylene Chloride	5.30	U	5.30	15.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.30	U	1.30	7.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.98	U	0.98	7.80	ug/Kg
110-82-7	Cyclohexane	1.10	U	1.10	7.80	ug/Kg
78-93-3	2-Butanone	18.5	J	8.80	38.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.30	U	1.30	7.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.95	U	0.95	7.80	ug/Kg
74-97-5	Bromochloromethane	3.80	U	3.80	7.80	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	7.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	7.80	ug/Kg
108-87-2	Methylcyclohexane	2.30	J	1.30	7.80	ug/Kg
71-43-2	Benzene	1.10	U	1.10	7.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.95	U	0.95	7.80	ug/Kg
79-01-6	Trichloroethene	1.20	U	1.20	7.80	ug/Kg
78-87-5	1,2-Dichloropropane	1.00	U	1.00	7.80	ug/Kg
75-27-4	Bromodichloromethane	0.87	U	0.87	7.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.70	U	6.70	38.8	ug/Kg
108-88-3	Toluene	20.4		1.00	7.80	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.8
Sample Wt/Vol:	5.99 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020033.D	1		10/28/24 11:56	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.93	U	0.93	7.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.88	U	0.88	7.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.30	U	1.30	7.80	ug/Kg
591-78-6	2-Hexanone	7.40	U	7.40	38.8	ug/Kg
124-48-1	Dibromochloromethane	1.00	U	1.00	7.80	ug/Kg
106-93-4	1,2-Dibromoethane	1.20	U	1.20	7.80	ug/Kg
127-18-4	Tetrachloroethene	1.40	U	1.40	7.80	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	7.80	ug/Kg
100-41-4	Ethyl Benzene	1.60	J	0.96	7.80	ug/Kg
179601-23-1	m/p-Xylenes	5.20	J	2.10	15.5	ug/Kg
95-47-6	o-Xylene	5.40	J	1.10	7.80	ug/Kg
100-42-5	Styrene	0.93	U	0.93	7.80	ug/Kg
75-25-2	Bromoform	1.30	U	1.30	7.80	ug/Kg
98-82-8	Isopropylbenzene	7.10	J	1.00	7.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.70	U	1.70	7.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	J	1.10	7.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	7.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.92	U	0.92	7.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.40	U	2.40	7.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.20	U	1.20	7.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.20	U	1.20	7.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	40.1		70 (50) - 130 (163)	80%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 (54) - 130 (147)	92%	SPK: 50
2037-26-5	Toluene-d8	47.1		70 (58) - 130 (134)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	28.8	*	70 (29) - 130 (146)	58%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	27500	7.713			
540-36-3	1,4-Difluorobenzene	45300	8.622			
3114-55-4	Chlorobenzene-d5	32500	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	8670	13.359			
TENTATIVE IDENTIFIED COMPOUNDS						

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.8
Sample Wt/Vol:	5.99 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020033.D	1		10/28/24 11:56	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
123-91-1	1,4-Dioxane	200	J		9.22	ug/Kg
103-65-1	n-propylbenzene	2.70	J		12.6	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	9.50	J		12.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	47.8	J		13.0	ug/Kg
135-98-8	sec-Butylbenzene	4.40	J		13.2	ug/Kg
99-87-6	p-Isopropyltoluene	5.60	J		13.3	ug/Kg
000622-97-9	Benzene, 1-ethenyl-4-methyl-	160	J		13.5	ug/Kg
104-51-8	n-Butylbenzene	24.2	J		13.6	ug/Kg
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	110	J		13.8	ug/Kg
000527-84-4	o-Cymene	140	J		13.8	ug/Kg
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	360	J		13.9	ug/Kg
	unknown14.005	130	J		14.0	ug/Kg
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	270	J		14.2	ug/Kg
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl	320	J		14.3	ug/Kg
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	160	J		14.5	ug/Kg
	unknown14.535	140	J		14.5	ug/Kg
000934-10-1	3-Phenylbut-1-ene	350	J		14.6	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	58.7
Sample Wt/Vol:	7.19 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020034.D	1		10/28/24 12:19	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.00	U	2.00	5.90	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	5.90	ug/Kg
75-01-4	Vinyl Chloride	0.91	U	0.91	5.90	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.90	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	5.90	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	5.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	5.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.92	U	0.92	5.90	ug/Kg
67-64-1	Acetone	48.0		7.40	29.6	ug/Kg
75-15-0	Carbon Disulfide	3.60	J	1.50	5.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.79	U	0.79	5.90	ug/Kg
79-20-9	Methyl Acetate	91.9		2.10	5.90	ug/Kg
75-09-2	Methylene Chloride	4.00	U	4.00	11.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	5.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.75	U	0.75	5.90	ug/Kg
110-82-7	Cyclohexane	0.82	U	0.82	5.90	ug/Kg
78-93-3	2-Butanone	12.7	J	6.70	29.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.72	U	0.72	5.90	ug/Kg
74-97-5	Bromochloromethane	2.90	U	2.90	5.90	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	5.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.92	U	0.92	5.90	ug/Kg
108-87-2	Methylcyclohexane	1.90	J	1.00	5.90	ug/Kg
71-43-2	Benzene	0.85	U	0.85	5.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.72	U	0.72	5.90	ug/Kg
79-01-6	Trichloroethene	0.89	U	0.89	5.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.78	U	0.78	5.90	ug/Kg
75-27-4	Bromodichloromethane	0.66	U	0.66	5.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.20	U	5.20	29.6	ug/Kg
108-88-3	Toluene	4.20	J	0.79	5.90	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	58.7
Sample Wt/Vol:	7.19 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020034.D	1		10/28/24 12:19	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.71	U	0.71	5.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.68	U	0.68	5.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.00	U	1.00	5.90	ug/Kg
591-78-6	2-Hexanone	5.70	U	5.70	29.6	ug/Kg
124-48-1	Dibromochloromethane	0.77	U	0.77	5.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.94	U	0.94	5.90	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.90	ug/Kg
108-90-7	Chlorobenzene	0.88	U	0.88	5.90	ug/Kg
100-41-4	Ethyl Benzene	0.73	U	0.73	5.90	ug/Kg
179601-23-1	m/p-Xylenes	1.60	U	1.60	11.8	ug/Kg
95-47-6	o-Xylene	3.40	J	0.83	5.90	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.90	ug/Kg
75-25-2	Bromoform	0.96	U	0.96	5.90	ug/Kg
98-82-8	Isopropylbenzene	5.00	J	0.79	5.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.88	U	0.88	5.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.95	U	0.95	5.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.70	U	0.70	5.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.94	U	0.94	5.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.92	U	0.92	5.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.9		70 (50) - 130 (163)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	51.7		70 (58) - 130 (134)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		70 (29) - 130 (146)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	189000	7.713			
540-36-3	1,4-Difluorobenzene	387000	8.616			
3114-55-4	Chlorobenzene-d5	355000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	58.7
Sample Wt/Vol:	7.19 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020034.D	1		10/28/24 12:19	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
103-65-1	n-propylbenzene	1.20	J		12.6	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	6.10	J		12.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	24.9	J		13.0	ug/Kg
99-87-6	p-Isopropyltoluene	2.60	J		13.3	ug/Kg
104-51-8	n-Butylbenzene	5.70	J		13.6	ug/Kg
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	120	J		13.9	ug/Kg
001587-04-8	Benzene, 1-methyl-2-(2-propenyl)-	59.9	J		14.0	ug/Kg
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	110	J		14.2	ug/Kg
000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	150	J		14.3	ug/Kg
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	86.6	J		14.5	ug/Kg
	unknown14.529	60.2	J		14.5	ug/Kg
000934-10-1	3-Phenylbut-1-ene	190	J		14.6	ug/Kg
000629-50-5	Tridecane	55.0	J		15.3	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.1
Sample Wt/Vol:	8.09 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020062.D	1		10/29/24 15:36	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	3.80	ug/Kg
74-87-3	Chloromethane	0.87	U	0.87	3.80	ug/Kg
75-01-4	Vinyl Chloride	0.58	U	0.58	3.80	ug/Kg
74-83-9	Bromomethane	0.78	U	0.78	3.80	ug/Kg
75-00-3	Chloroethane	0.76	U	0.76	3.80	ug/Kg
75-69-4	Trichlorofluoromethane	0.69	U	0.69	3.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.81	U	0.81	3.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.59	U	0.59	3.80	ug/Kg
67-64-1	Acetone	4.70	U	4.70	18.8	ug/Kg
75-15-0	Carbon Disulfide	1.70	J	0.96	3.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.50	3.80	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	3.80	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.63	U	0.63	3.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.47	U	0.47	3.80	ug/Kg
110-82-7	Cyclohexane	0.52	U	0.52	3.80	ug/Kg
78-93-3	2-Butanone	4.30	U	4.30	18.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.65	U	0.65	3.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.46	U	0.46	3.80	ug/Kg
74-97-5	Bromochloromethane	1.80	U	1.80	3.80	ug/Kg
67-66-3	Chloroform	0.50	U	0.50	3.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.59	U	0.59	3.80	ug/Kg
108-87-2	Methylcyclohexane	0.65	U	0.65	3.80	ug/Kg
71-43-2	Benzene	0.54	U	0.54	3.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.46	U	0.46	3.80	ug/Kg
79-01-6	Trichloroethene	0.56	U	0.56	3.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.50	U	0.50	3.80	ug/Kg
75-27-4	Bromodichloromethane	0.42	U	0.42	3.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	18.8	ug/Kg
108-88-3	Toluene	0.50	U	0.50	3.80	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.1
Sample Wt/Vol:	8.09 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020062.D	1		10/29/24 15:36	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.45	U	0.45	3.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.43	U	0.43	3.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.63	U	0.63	3.80	ug/Kg
591-78-6	2-Hexanone	3.60	U	3.60	18.8	ug/Kg
124-48-1	Dibromochloromethane	0.49	U	0.49	3.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.59	U	0.59	3.80	ug/Kg
127-18-4	Tetrachloroethene	0.67	U	0.67	3.80	ug/Kg
108-90-7	Chlorobenzene	0.56	U	0.56	3.80	ug/Kg
100-41-4	Ethyl Benzene	0.47	U	0.47	3.80	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	7.50	ug/Kg
95-47-6	o-Xylene	0.53	U	0.53	3.80	ug/Kg
100-42-5	Styrene	0.45	U	0.45	3.80	ug/Kg
75-25-2	Bromoform	0.61	U	0.61	3.80	ug/Kg
98-82-8	Isopropylbenzene	0.50	U	0.50	3.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.83	U	0.83	3.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.56	U	0.56	3.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.60	U	0.60	3.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.44	U	0.44	3.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.20	U	1.20	3.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.59	U	0.59	3.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.59	U	0.59	3.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.5		70 (50) - 130 (163)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (58) - 130 (134)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.8		70 (29) - 130 (146)	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	171000	7.713			
540-36-3	1,4-Difluorobenzene	365000	8.615			
3114-55-4	Chlorobenzene-d5	339000	11.413			
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.1
Sample Wt/Vol:	8.09 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020062.D	1		10/29/24 15:36	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	8.30	J		13.6	ug/Kg
000099-87-6	p-Cymene	7.20	J		13.8	ug/Kg
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	20.1	J		13.9	ug/Kg
062338-57-2	1,4-Cyclohexadiene, 3-ethenyl-1,2-	7.60	J		14.0	ug/Kg
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	17.3	J		14.2	ug/Kg
000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	23.7	J		14.3	ug/Kg
002050-24-0	Benzene, 1,3-diethyl-5-methyl-	8.20	J		14.3	ug/Kg
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	8.50	J		14.5	ug/Kg
000527-84-4	o-Cymene	6.70	J		14.5	ug/Kg
002214-14-4	Cyclopropane, 1-methyl-1-phenyl-	23.1	J		14.6	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.4
Sample Wt/Vol:	9.43 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020035.D	1		10/28/24 12:43	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.93	U	0.93	2.80	ug/Kg
74-87-3	Chloromethane	0.65	U	0.65	2.80	ug/Kg
75-01-4	Vinyl Chloride	0.43	U	0.43	2.80	ug/Kg
74-83-9	Bromomethane	0.58	U	0.58	2.80	ug/Kg
75-00-3	Chloroethane	0.57	U	0.57	2.80	ug/Kg
75-69-4	Trichlorofluoromethane	0.51	U	0.51	2.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.60	U	0.60	2.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.44	U	0.44	2.80	ug/Kg
67-64-1	Acetone	3.50	U	3.50	14.0	ug/Kg
75-15-0	Carbon Disulfide	0.72	U	0.72	2.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.38	U	0.38	2.80	ug/Kg
79-20-9	Methyl Acetate	1.00	U	1.00	2.80	ug/Kg
75-09-2	Methylene Chloride	1.90	U	1.90	5.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.47	U	0.47	2.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.35	U	0.35	2.80	ug/Kg
110-82-7	Cyclohexane	0.39	U	0.39	2.80	ug/Kg
78-93-3	2-Butanone	3.20	U	3.20	14.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.49	U	0.49	2.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.34	U	0.34	2.80	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	2.80	ug/Kg
67-66-3	Chloroform	0.38	U	0.38	2.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.44	U	0.44	2.80	ug/Kg
108-87-2	Methylcyclohexane	0.49	U	0.49	2.80	ug/Kg
71-43-2	Benzene	0.40	U	0.40	2.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.34	U	0.34	2.80	ug/Kg
79-01-6	Trichloroethene	0.42	U	0.42	2.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.37	U	0.37	2.80	ug/Kg
75-27-4	Bromodichloromethane	0.31	U	0.31	2.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.40	U	2.40	14.0	ug/Kg
108-88-3	Toluene	0.38	U	0.38	2.80	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.4
Sample Wt/Vol:	9.43 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020035.D	1		10/28/24 12:43	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.34	U	0.34	2.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.32	U	0.32	2.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.47	U	0.47	2.80	ug/Kg
591-78-6	2-Hexanone	2.70	U	2.70	14.0	ug/Kg
124-48-1	Dibromochloromethane	0.37	U	0.37	2.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.44	U	0.44	2.80	ug/Kg
127-18-4	Tetrachloroethene	0.50	U	0.50	2.80	ug/Kg
108-90-7	Chlorobenzene	0.42	U	0.42	2.80	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	0.35	2.80	ug/Kg
179601-23-1	m/p-Xylenes	0.76	U	0.76	5.60	ug/Kg
95-47-6	o-Xylene	0.39	U	0.39	2.80	ug/Kg
100-42-5	Styrene	0.34	U	0.34	2.80	ug/Kg
75-25-2	Bromoform	0.45	U	0.45	2.80	ug/Kg
98-82-8	Isopropylbenzene	0.38	U	0.38	2.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.62	U	0.62	2.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.42	U	0.42	2.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.45	U	0.45	2.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.33	U	0.33	2.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.88	U	0.88	2.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.44	U	0.44	2.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.44	U	0.44	2.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	51.6		70 (58) - 130 (134)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		70 (29) - 130 (146)	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	212000	7.713			
540-36-3	1,4-Difluorobenzene	437000	8.615			
3114-55-4	Chlorobenzene-d5	399000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	145000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.4
Sample Wt/Vol:	9.43 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020035.D	1		10/28/24 12:43	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000575-41-7	Naphthalene, 1,3-dimethyl-	8.10	J		12.6	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	TB-10252024	SDG No.:	P4578
Lab Sample ID:	P4578-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043591.D	1		10/29/24 12:56	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.70	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	TB-10252024	SDG No.:	P4578
Lab Sample ID:	P4578-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043591.D	1		10/29/24 12:56	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.3		70 (74) - 130 (125)	89%	SPK: 50
1868-53-7	Dibromofluoromethane	45.3		70 (75) - 130 (124)	91%	SPK: 50
2037-26-5	Toluene-d8	49.8		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		70 (77) - 130 (121)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	157000	5.544			
540-36-3	1,4-Difluorobenzene	289000	6.757			
3114-55-4	Chlorobenzene-d5	251000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	105000	12.024			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	TB-10252024	SDG No.:	P4578
Lab Sample ID:	P4578-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043591.D	1		10/29/24 12:56	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
P4578-03	WB-305-TOP	1,2-Dichloroethane-d4	50	40.1	80		70 (50)	130 (163)
		Dibromofluoromethane	50	46.0	92		70 (54)	130 (147)
		Toluene-d8	50	47.1	94		70 (58)	130 (134)
		4-Bromofluorobenzene	50	28.8	58	*	70 (29)	130 (146)
P4578-04	WB-305-TOP-1	1,2-Dichloroethane-d4	50	58.9	118		70 (50)	130 (163)
		Dibromofluoromethane	50	50.6	101		70 (54)	130 (147)
		Toluene-d8	50	51.6	103		70 (58)	130 (134)
		4-Bromofluorobenzene	50	45.6	91		70 (29)	130 (146)
P4578-05	WB-305-BOT	1,2-Dichloroethane-d4	50	58.5	117		70 (50)	130 (163)
		Dibromofluoromethane	50	49.5	99		70 (54)	130 (147)
		Toluene-d8	50	51.0	102		70 (58)	130 (134)
		4-Bromofluorobenzene	50	43.8	88		70 (29)	130 (146)
P4578-07	WB-305-BOT-1	1,2-Dichloroethane-d4	50	56.8	114		70 (50)	130 (163)
		Dibromofluoromethane	50	50.2	100		70 (54)	130 (147)
		Toluene-d8	50	51.6	103		70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.0	88		70 (29)	130 (146)
VY1028SBL01	VY1028SBL01	1,2-Dichloroethane-d4	50	57.0	114		70 (50)	130 (163)
		Dibromofluoromethane	50	49.6	99		70 (54)	130 (147)
		Toluene-d8	50	50.1	100		70 (58)	130 (134)
		4-Bromofluorobenzene	50	39.5	79		70 (29)	130 (146)
VY1028SBS01	VY1028SBS01	1,2-Dichloroethane-d4	50	52.2	104		70 (50)	130 (163)
		Dibromofluoromethane	50	55.0	110		70 (54)	130 (147)
		Toluene-d8	50	53.8	107		70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.5	105		70 (29)	130 (146)
VY1028SBSD01	VY1028SBSD01	1,2-Dichloroethane-d4	50	47.0	94		70 (50)	130 (163)
		Dibromofluoromethane	50	49.8	100		70 (54)	130 (147)
		Toluene-d8	50	47.1	94		70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.0	94		70 (29)	130 (146)
VY1029SBL01	VY1029SBL01	1,2-Dichloroethane-d4	50	55.3	111		70 (50)	130 (163)
		Dibromofluoromethane	50	49.6	99		70 (54)	130 (147)
		Toluene-d8	50	50.6	101		70 (58)	130 (134)
		4-Bromofluorobenzene	50	39.5	79		70 (29)	130 (146)
VY1029SBS01	VY1029SBS01	1,2-Dichloroethane-d4	50	51.8	104		70 (50)	130 (163)
		Dibromofluoromethane	50	51.2	102		70 (54)	130 (147)
		Toluene-d8	50	50.3	101		70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.0	100		70 (29)	130 (146)

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Surrogate Summary

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4578-01	WB-305-SW	1,2-Dichloroethane-d4	50	44.0	88	70 (74)	130 (125)
		Dibromofluoromethane	50	46.8	94	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.6	95	70 (77)	130 (121)
P4578-02	WB-305-SW-1	1,2-Dichloroethane-d4	50	43.3	87	70 (74)	130 (125)
		Dibromofluoromethane	50	46.0	92	70 (75)	130 (124)
		Toluene-d8	50	50.2	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.5	93	70 (77)	130 (121)
P4578-09	TB-10252024	1,2-Dichloroethane-d4	50	44.3	89	70 (74)	130 (125)
		Dibromofluoromethane	50	45.3	91	70 (75)	130 (124)
		Toluene-d8	50	49.8	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	45.6	91	70 (77)	130 (121)
VX1029WBL01	VX1029WBL01	1,2-Dichloroethane-d4	50	43.4	87	70 (74)	130 (125)
		Dibromofluoromethane	50	45.5	91	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.6	101	70 (77)	130 (121)
VX1029WBS01	VX1029WBS01	1,2-Dichloroethane-d4	50	42.1	84	70 (74)	130 (125)
		Dibromofluoromethane	50	46.6	93	70 (75)	130 (124)
		Toluene-d8	50	48.3	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.0	94	70 (77)	130 (121)
VX1029WBSD0	VX1029WBSD01	1,2-Dichloroethane-d4	50	42.9	86	70 (74)	130 (125)
		Dibromofluoromethane	50	47.2	94	70 (75)	130 (124)
		Toluene-d8	50	50.0	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.0	100	70 (77)	130 (121)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043586.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1029WBS01	Dichlorodifluoromethane	20	18.5	ug/L	93			40 (69)	160 (116)	
	Chloromethane	20	16.0	ug/L	80			40 (65)	160 (116)	
	Vinyl chloride	20	18.2	ug/L	91			70 (65)	130 (117)	
	Bromomethane	20	17.4	ug/L	87			40 (58)	160 (125)	
	Chloroethane	20	19.0	ug/L	95			40 (56)	160 (128)	
	Trichlorofluoromethane	20	20.7	ug/L	104			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	21.4	ug/L	107			70 (80)	130 (112)	
	1,1-Dichloroethene	20	19.4	ug/L	97			70 (74)	130 (110)	
	Acetone	100	92.3	ug/L	92			40 (60)	160 (125)	
	Carbon disulfide	20	18.2	ug/L	91			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	17.4	ug/L	87			70 (78)	130 (114)	
	Methyl Acetate	20	16.1	ug/L	81			70 (67)	130 (125)	
	Methylene Chloride	20	17.1	ug/L	86			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.3	ug/L	97			70 (75)	130 (108)	
	1,1-Dichloroethane	20	17.9	ug/L	90			70 (78)	130 (112)	
	Cyclohexane	20	20.3	ug/L	102			70 (75)	130 (110)	
	2-Butanone	100	86.1	ug/L	86			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.1	ug/L	101			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	18.4	ug/L	92			70 (77)	130 (110)	
	Bromochloromethane	20	17.5	ug/L	88			70 (70)	130 (124)	
	Chloroform	20	18.1	ug/L	91			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.4	ug/L	97			70 (80)	130 (108)	
	Methylcyclohexane	20	21.3	ug/L	106			70 (72)	130 (115)	
	Benzene	20	18.9	ug/L	95			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.3	ug/L	92			70 (80)	130 (115)	
	Trichloroethene	20	19.6	ug/L	98			70 (77)	130 (113)	
	1,2-Dichloropropane	20	18.2	ug/L	91			70 (83)	130 (111)	
	Bromodichloromethane	20	18.3	ug/L	92			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	90.2	ug/L	90			40 (74)	160 (118)	
	Toluene	20	19.9	ug/L	100			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	17.7	ug/L	89			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	19.5	ug/L	98			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			70 (83)	130 (112)	
	2-Hexanone	100	91.2	ug/L	91			40 (73)	160 (117)	
	Dibromochloromethane	20	18.7	ug/L	94			70 (82)	130 (110)	
	1,2-Dibromoethane	20	18.5	ug/L	93			70 (81)	130 (110)	
	Tetrachloroethene	20	21.2	ug/L	106			70 (67)	130 (123)	
	Chlorobenzene	20	19.4	ug/L	97			70 (82)	130 (109)	
	Ethyl Benzene	20	20.2	ug/L	101			70 (83)	130 (109)	
	m/p-Xylenes	40	40.6	ug/L	102			70 (82)	130 (110)	
	o-Xylene	20	20.1	ug/L	101			70 (83)	130 (109)	
	Styrene	20	20.2	ug/L	101			70 (80)	130 (111)	
	Bromoform	20	17.8	ug/L	89			70 (79)	130 (109)	
	Isopropylbenzene	20	20.5	ug/L	103			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	18.5	ug/L	93			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	19.7	ug/L	99			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	19.3	ug/L	97			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	19.3	ug/L	97			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043586.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1029WBS01	1,2-Dibromo-3-Chloropropane	20	16.5	ug/L	83			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	19.2	ug/L	96			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	18.9	ug/L	95			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043587.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1029WBSD01	Dichlorodifluoromethane	20	18.2	ug/L	91	2		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.6	ug/L	83	4		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.1	ug/L	91	0		70 (65)	130 (117)	20 (20)
	Bromomethane	20	18.6	ug/L	93	7		40 (58)	160 (125)	20 (20)
	Chloroethane	20	18.9	ug/L	95	0		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	20.6	ug/L	103	1		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/L	99	8		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.1	ug/L	96	1		70 (74)	130 (110)	20 (20)
	Acetone	100	95.8	ug/L	96	4		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	18.1	ug/L	91	0		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	17.9	ug/L	90	3		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	17.1	ug/L	86	6		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	17.0	ug/L	85	1		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	18.7	ug/L	94	3		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	18.4	ug/L	92	2		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	20.1	ug/L	101	1		70 (75)	130 (110)	20 (20)
	2-Butanone	100	91.3	ug/L	91	6		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	20.0	ug/L	100	1		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	18.6	ug/L	93	1		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	18.8	ug/L	94	7		70 (70)	130 (124)	20 (20)
	Chloroform	20	18.3	ug/L	92	1		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.1	ug/L	96	1		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	21.0	ug/L	105	1		70 (72)	130 (115)	20 (20)
	Benzene	20	19.5	ug/L	98	3		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	19.2	ug/L	96	4		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.5	ug/L	98	0		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	19.1	ug/L	96	5		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	18.9	ug/L	95	3		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	98.8	ug/L	99	10		40 (74)	160 (118)	20 (20)
	Toluene	20	20.2	ug/L	101	1		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	19.1	ug/L	96	8		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	20.1	ug/L	101	3		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	20.3	ug/L	102	8		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	100	ug/L	100	9		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	19.6	ug/L	98	4		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	19.7	ug/L	99	6		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	21.1	ug/L	106	0		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.8	ug/L	99	2		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	20.2	ug/L	101	0		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	41.9	ug/L	105	3		70 (82)	130 (110)	20 (20)
	o-Xylene	20	20.8	ug/L	104	3		70 (83)	130 (109)	20 (20)
	Styrene	20	20.5	ug/L	103	2		70 (80)	130 (111)	20 (20)
	Bromoform	20	18.8	ug/L	94	5		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	20.5	ug/L	103	0		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98	5		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.0	ug/L	100	1		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	19.1	ug/L	96	1		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.1	ug/L	101	4		70 (82)	130 (109)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043587.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1029WBSD01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/L	94	12		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	19.2	ug/L	96	0		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	19.1	ug/L	96	1		70 (76)	130 (114)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020031.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1028SBS01	Dichlorodifluoromethane	20	16.9	ug/Kg	85			40 (64)	160 (136)	
	Chloromethane	20	16.0	ug/Kg	80			40 (70)	160 (130)	
	Vinyl chloride	20	17.8	ug/Kg	89			70 (72)	130 (129)	
	Bromomethane	20	18.4	ug/Kg	92			40 (58)	160 (141)	
	Chloroethane	20	19.2	ug/Kg	96			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.2	ug/Kg	96			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/Kg	106			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.2	ug/Kg	91			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	10.9	ug/Kg	54			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96			70 (77)	130 (129)	
	Methyl Acetate	20	18.5	ug/Kg	93			70 (69)	130 (149)	
	Methylene Chloride	20	19.5	ug/Kg	98			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	17.8	ug/Kg	89			70 (80)	130 (123)	
	1,1-Dichloroethane	20	22.3	ug/Kg	112			70 (82)	130 (123)	
	Cyclohexane	20	17.6	ug/Kg	88			70 (76)	130 (122)	
	2-Butanone	100	100	ug/Kg	100			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.8	ug/Kg	104			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			70 (82)	130 (123)	
	Bromochloromethane	20	19.7	ug/Kg	99			70 (80)	130 (127)	
	Chloroform	20	22.7	ug/Kg	114			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	22.2	ug/Kg	111			70 (80)	130 (126)	
	Methylcyclohexane	20	17.2	ug/Kg	86			70 (77)	130 (123)	
	Benzene	20	19.8	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.3	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	19.4	ug/Kg	97			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.3	ug/Kg	106			70 (83)	130 (122)	
	Bromodichloromethane	20	21.9	ug/Kg	110			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	95.9	ug/Kg	96			40 (70)	160 (135)	
	Toluene	20	20.4	ug/Kg	102			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	21.3	ug/Kg	106			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	20.4	ug/Kg	102			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.0	ug/Kg	95			70 (80)	130 (125)	
	Tetrachloroethene	20	18.9	ug/Kg	95			70 (83)	130 (125)	
	Chlorobenzene	20	20.9	ug/Kg	104			70 (84)	130 (122)	
	Ethyl Benzene	20	21.5	ug/Kg	108			70 (82)	130 (124)	
	m/p-Xylenes	40	42.1	ug/Kg	105			70 (83)	130 (124)	
	o-Xylene	20	21.1	ug/Kg	106			70 (83)	130 (123)	
	Styrene	20	21.5	ug/Kg	108			70 (82)	130 (124)	
	Bromoform	20	20.0	ug/Kg	100			70 (75)	130 (127)	
	Isopropylbenzene	20	22.4	ug/Kg	112			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	21.1	ug/Kg	106			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.3	ug/Kg	106			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	21.3	ug/Kg	106			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.6	ug/Kg	108			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020031.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1028SBS01	1,2-Dibromo-3-Chloropropane	20	18.2	ug/Kg	91			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.5	ug/Kg	93			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	17.8	ug/Kg	89			70 (70)	130 (137)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020032.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1028SBSD01	Dichlorodifluoromethane	20	16.6	ug/Kg	83	2		40 (64)	160 (136)	30 (20)
	Chloromethane	20	16.3	ug/Kg	81	1		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	17.1	ug/Kg	86	3		70 (72)	130 (129)	30 (20)
	Bromomethane	20	18.9	ug/Kg	95	3		40 (58)	160 (141)	30 (20)
	Chloroethane	20	18.8	ug/Kg	94	2		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	18.9	ug/Kg	95	1		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/Kg	100	6		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	17.6	ug/Kg	88	3		70 (79)	130 (121)	30 (20)
	Acetone	100	130	ug/Kg	130	17		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	10.4	ug/Kg	52	4		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.1	ug/Kg	106	10		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	20.9	ug/Kg	104	11		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	19.9	ug/Kg	100	2		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	17.3	ug/Kg	86	3		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.6	ug/Kg	108	4		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	17.1	ug/Kg	86	2		70 (76)	130 (122)	30 (20)
	2-Butanone	100	120	ug/Kg	120	18		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.7	ug/Kg	104	0		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104	1		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	22.2	ug/Kg	111	11		70 (80)	130 (127)	30 (20)
	Chloroform	20	22.7	ug/Kg	114	0		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	21.1	ug/Kg	106	5		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	17.0	ug/Kg	85	1		70 (77)	130 (123)	30 (20)
	Benzene	20	20.1	ug/Kg	101	2		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	21.4	ug/Kg	107	5		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	19.0	ug/Kg	95	2		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	22.0	ug/Kg	110	4		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	22.7	ug/Kg	114	4		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	14		40 (70)	160 (135)	30 (20)
	Toluene	20	20.4	ug/Kg	102	0		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.4	ug/Kg	102	4		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.6	ug/Kg	103	6		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	22.0	ug/Kg	110	4		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	120	ug/Kg	120	18		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	21.5	ug/Kg	108	6		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.1	ug/Kg	101	6		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	19.0	ug/Kg	95	0		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	21.4	ug/Kg	107	3		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	21.5	ug/Kg	108	0		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	41.5	ug/Kg	104	1		70 (83)	130 (124)	30 (20)
	o-Xylene	20	21.1	ug/Kg	106	0		70 (83)	130 (123)	30 (20)
	Styrene	20	21.7	ug/Kg	109	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	21.2	ug/Kg	106	6		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	21.3	ug/Kg	106	6		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	22.4	ug/Kg	112	6		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	21.0	ug/Kg	105	1		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	21.2	ug/Kg	106	0		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	21.6	ug/Kg	108	0		70 (83)	130 (124)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020032.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1028SBSD01	1,2-Dibromo-3-Chloropropane	20	21.7	ug/Kg	109	18		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.3	ug/Kg	102	9		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.8	ug/Kg	104	16		70 (70)	130 (137)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020051.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1029SBS01	Dichlorodifluoromethane	20	14.9	ug/Kg	75			40 (64)	160 (136)	
	Chloromethane	20	15.7	ug/Kg	79			40 (70)	160 (130)	
	Vinyl chloride	20	17.8	ug/Kg	89			70 (72)	130 (129)	
	Bromomethane	20	18.5	ug/Kg	93			40 (58)	160 (141)	
	Chloroethane	20	19.7	ug/Kg	99			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.3	ug/Kg	97			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.3	ug/Kg	102			70 (81)	130 (123)	
	1,1-Dichloroethene	20	17.4	ug/Kg	87			70 (79)	130 (121)	
	Acetone	100	140	ug/Kg	140			40 (60)	160 (131)	
	Carbon disulfide	20	10.2	ug/Kg	51			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	21.2	ug/Kg	106			70 (77)	130 (129)	
	Methyl Acetate	20	21.6	ug/Kg	108			70 (69)	130 (149)	
	Methylene Chloride	20	21.8	ug/Kg	109			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	17.6	ug/Kg	88			70 (80)	130 (123)	
	1,1-Dichloroethane	20	22.3	ug/Kg	112			70 (82)	130 (123)	
	Cyclohexane	20	16.9	ug/Kg	85			70 (76)	130 (122)	
	2-Butanone	100	130	ug/Kg	130			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.0	ug/Kg	100			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			70 (82)	130 (123)	
	Bromochloromethane	20	23.4	ug/Kg	117			70 (80)	130 (127)	
	Chloroform	20	23.3	ug/Kg	117			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.7	ug/Kg	109			70 (80)	130 (126)	
	Methylcyclohexane	20	16.1	ug/Kg	81			70 (77)	130 (123)	
	Benzene	20	19.9	ug/Kg	100			70 (84)	130 (121)	
	1,2-Dichloroethane	20	21.0	ug/Kg	105			70 (81)	130 (126)	
	Trichloroethene	20	18.6	ug/Kg	93			70 (83)	130 (122)	
	1,2-Dichloropropane	20	22.5	ug/Kg	113			70 (83)	130 (122)	
	Bromodichloromethane	20	22.5	ug/Kg	113			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	120	ug/Kg	120			40 (70)	160 (135)	
	Toluene	20	20.4	ug/Kg	102			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.4	ug/Kg	102			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.6	ug/Kg	103			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	22.8	ug/Kg	114			70 (82)	130 (125)	
	2-Hexanone	100	130	ug/Kg	130			40 (66)	160 (138)	
	Dibromochloromethane	20	21.7	ug/Kg	109			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.9	ug/Kg	104			70 (80)	130 (125)	
	Tetrachloroethene	20	17.8	ug/Kg	89			70 (83)	130 (125)	
	Chlorobenzene	20	20.3	ug/Kg	102			70 (84)	130 (122)	
	Ethyl Benzene	20	20.6	ug/Kg	103			70 (82)	130 (124)	
	m/p-Xylenes	40	40.8	ug/Kg	102			70 (83)	130 (124)	
	o-Xylene	20	20.2	ug/Kg	101			70 (83)	130 (123)	
	Styrene	20	21.2	ug/Kg	106			70 (82)	130 (124)	
	Bromoform	20	21.7	ug/Kg	109			70 (75)	130 (127)	
	Isopropylbenzene	20	21.4	ug/Kg	107			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	23.9	ug/Kg	119			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.2	ug/Kg	106			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	21.4	ug/Kg	107			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.6	ug/Kg	108			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020051.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1029SBS01	1,2-Dibromo-3-Chloropropane	20	22.3	ug/Kg	112			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.1	ug/Kg	96			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95			70 (70)	130 (137)	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1029WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VX043585.D Lab Sample ID: VX1029WBL01

Date Analyzed: 10/29/2024 Time Analyzed: 10:31

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1029WBS01	VX1029WBS01	VX043586.D	10/29/2024
VX1029WBSD01	VX1029WBSD01	VX043587.D	10/29/2024
TB-10252024	P4578-09	VX043591.D	10/29/2024
WB-305-SW	P4578-01	VX043597.D	10/29/2024
WB-305-SW-1	P4578-02	VX043598.D	10/29/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1028SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VY020030.D Lab Sample ID: VY1028SBL01

Date Analyzed: 10/28/2024 Time Analyzed: 09:58

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1028SBS01	VY1028SBS01	VY020031.D	10/28/2024
VY1028SBSD01	VY1028SBSD01	VY020032.D	10/28/2024
WB-305-TOP	P4578-03	VY020033.D	10/28/2024
WB-305-TOP-1	P4578-04	VY020034.D	10/28/2024
WB-305-BOT-1	P4578-07	VY020035.D	10/28/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1029SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VY020050.D Lab Sample ID: VY1029SBL01

Date Analyzed: 10/29/2024 Time Analyzed: 10:01

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1029SBS01	VY1029SBS01	VY020051.D	10/29/2024
WB-305-BOT	P4578-05	VY020062.D	10/29/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VX043555.D BFB Injection Date: 10/28/2024

Instrument ID: MSVOA_X BFB Injection Time: 10:09

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	71.2
175	5.0 - 9.0% of mass 174	5.6 (7.9) 1
176	95.0 - 101.0% of mass 174	68.9 (96.7) 1
177	5.0 - 9.0% of mass 176	4.1 (6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX043556.D	10/28/2024	10:59
VSTDICC005	VSTDICC005	VX043557.D	10/28/2024	11:22
VSTDICC020	VSTDICC020	VX043558.D	10/28/2024	11:45
VSTDICCC050	VSTDICCC050	VX043559.D	10/28/2024	12:08
VSTDICC100	VSTDICC100	VX043560.D	10/28/2024	12:31
VSTDICC150	VSTDICC150	VX043561.D	10/28/2024	12:54

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VX043582.D BFB Injection Date: 10/29/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:30

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.5
75	30.0 - 60.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	73.3
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.5 (96.2) 1
177	5.0 - 9.0% of mass 176	4.7 (6.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX043583.D	10/29/2024	09:29
VX1029WBL01	VX1029WBL01	VX043585.D	10/29/2024	10:31
VX1029WBS01	VX1029WBS01	VX043586.D	10/29/2024	10:57
VX1029WBSD01	VX1029WBSD01	VX043587.D	10/29/2024	11:20
TB-10252024	P4578-09	VX043591.D	10/29/2024	12:56
WB-305-SW	P4578-01	VX043597.D	10/29/2024	15:15
WB-305-SW-1	P4578-02	VX043598.D	10/29/2024	15:38

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VY019826.D BFB Injection Date: 10/09/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:33

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.4
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	76.9
175	5.0 - 9.0% of mass 174	5.6 (7.3) 1
176	95.0 - 101.0% of mass 174	73.9 (96.2) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY019827.D	10/09/2024	10:18
VSTDICC010	VSTDICC010	VY019828.D	10/09/2024	10:41
VSTDICC020	VSTDICC020	VY019829.D	10/09/2024	11:04
VSTDICCC050	VSTDICCC050	VY019830.D	10/09/2024	11:26
VSTDICC100	VSTDICC100	VY019831.D	10/09/2024	11:49
VSTDICC150	VSTDICC150	VY019832.D	10/09/2024	12:11

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VY020028.D BFB Injection Date: 10/28/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:55

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.5
75	30.0 - 60.0% of mass 95	57.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	72
175	5.0 - 9.0% of mass 174	5.7 (7.9) 1
176	95.0 - 101.0% of mass 174	68.9 (95.8) 1
177	5.0 - 9.0% of mass 176	4.5 (6.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY020029.D	10/28/2024	09:29
VY1028SBL01	VY1028SBL01	VY020030.D	10/28/2024	09:58
VY1028SBS01	VY1028SBS01	VY020031.D	10/28/2024	10:40
VY1028SBSD01	VY1028SBSD01	VY020032.D	10/28/2024	11:02
WB-305-TOP	P4578-03	VY020033.D	10/28/2024	11:56
WB-305-TOP-1	P4578-04	VY020034.D	10/28/2024	12:19
WB-305-BOT-1	P4578-07	VY020035.D	10/28/2024	12:43

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VY020048.D BFB Injection Date: 10/29/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:58

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.9
75	30.0 - 60.0% of mass 95	59.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	71.8
175	5.0 - 9.0% of mass 174	5.8 (8) 1
176	95.0 - 101.0% of mass 174	68.4 (95.3) 1
177	5.0 - 9.0% of mass 176	4.8 (7.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY020049.D	10/29/2024	09:31
VY1029SBL01	VY1029SBL01	VY020050.D	10/29/2024	10:01
VY1029SBS01	VY1029SBS01	VY020051.D	10/29/2024	11:04
WB-305-BOT	P4578-05	VY020062.D	10/29/2024	15:36

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VX043583.D Date Analyzed: 10/29/2024

Instrument ID: MSVOA_X Time Analyzed: 09:29

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	185040	5.54	317661	6.76	277122	10.06
UPPER LIMIT	370080	6.044	635322	7.257	554244	10.555
LOWER LIMIT	92520	5.044	158831	6.257	138561	9.555
EPA SAMPLE NO.						
WB-305-SW	142289	5.55	262462	6.76	231278	10.06
WB-305-SW-1	158213	5.55	288734	6.76	248859	10.06
TB-10252024	156843	5.54	288755	6.76	251324	10.06
VX1029WBL01	160199	5.55	295395	6.76	265502	10.06
VX1029WBS01	202431	5.54	352202	6.76	294857	10.06
VX1029WBSD01	180366	5.55	312050	6.76	270005	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VX043583.D Date Analyzed: 10/29/2024

Instrument ID: MSVOA_X Time Analyzed: 09:29

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	136145	12.018				
UPPER LIMIT	272290	12.518				
LOWER LIMIT	68072.5	11.518				
EPA SAMPLE NO.						
WB-305-SW	100896	12.02				
WB-305-SW-1	107787	12.02				
TB-10252024	105429	12.02				
VX1029WBL01	128354	12.02				
VX1029WBS01	142936	12.02				
VX1029WBSD01	131226	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VY020029.D Date Analyzed: 10/28/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:29

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	206029	7.72	357320	8.63	306579	11.42
UPPER LIMIT	412058	8.219	714640	9.127	613158	11.92
LOWER LIMIT	103015	7.219	178660	8.127	153290	10.92
EPA SAMPLE NO.						
WB-305-TOP	27473 *	7.71	45281 *	8.62	32489 *	11.42
WB-305-TOP-1	189016	7.71	386680	8.62	354785	11.41
WB-305-BOT-1	212409	7.71	437109	8.62	398917	11.41
VY1028SBL01	207569	7.72	438255	8.62	384846	11.42
VY1028SBS01	208423	7.72	369952	8.62	306417	11.42
VY1028SBSD01	200597	7.71	351453	8.62	295814	11.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VY020029.D Date Analyzed: 10/28/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:29

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	147527	13.352				
UPPER LIMIT	295054	13.852				
LOWER LIMIT	73763.5	12.852				
EPA SAMPLE NO.						
WB-305-TOP	8668 *	13.36				
WB-305-TOP-1	133013	13.35				
WB-305-BOT-1	145301	13.35				
VY1028SBL01	125121	13.35				
VY1028SBS01	143516	13.35				
VY1028SBSD01	146119	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VY020049.D Date Analyzed: 10/29/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:31

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	196359	7.72	345491	8.62	298572	11.42
UPPER LIMIT	392718	8.219	690982	9.122	597144	11.92
LOWER LIMIT	98179.5	7.219	172746	8.122	149286	10.92
EPA SAMPLE NO.						
WB-305-BOT	171253	7.71	364648	8.62	339109	11.41
VY1029SBL01	196117	7.71	412090	8.62	365725	11.42
VY1029SBS01	186283	7.72	334192	8.62	285725	11.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VY020049.D Date Analyzed: 10/29/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:31

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	148124	13.352				
UPPER LIMIT	296248	13.852				
LOWER LIMIT	74062	12.852				
EPA SAMPLE NO.						
WB-305-BOT	127440	13.35				
VY1029SBL01	118867	13.35				
VY1029SBS01	134900	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBL01	SDG No.:	P4578
Lab Sample ID:	VX1029WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043585.D	1		10/29/24 10:31	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBL01	SDG No.:	P4578
Lab Sample ID:	VX1029WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043585.D	1		10/29/24 10:31	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.4		70 (74) - 130 (125)	87%	SPK: 50
1868-53-7	Dibromofluoromethane	45.5		70 (75) - 130 (124)	91%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		70 (77) - 130 (121)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	5.55			
540-36-3	1,4-Difluorobenzene	295000	6.757			
3114-55-4	Chlorobenzene-d5	266000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	128000	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBL01	SDG No.:	P4578
Lab Sample ID:	VX1029WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043585.D	1		10/29/24 10:31	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBL01	SDG No.:	P4578
Lab Sample ID:	VY1028SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020030.D	1		10/28/24 09:58	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBL01	SDG No.:	P4578
Lab Sample ID:	VY1028SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020030.D	1		10/28/24 09:58	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	50.1		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.5		70 (29) - 130 (146)	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	208000	7.719			
540-36-3	1,4-Difluorobenzene	438000	8.621			
3114-55-4	Chlorobenzene-d5	385000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	125000	13.352			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBL01	SDG No.:	P4578
Lab Sample ID:	VY1028SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020030.D	1		10/28/24 09:58	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1029SBL01	SDG No.:	P4578
Lab Sample ID:	VY1029SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020050.D	1		10/29/24 10:01	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1029SBL01	SDG No.:	P4578
Lab Sample ID:	VY1029SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020050.D	1		10/29/24 10:01	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.3		70 (50) - 130 (163)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (58) - 130 (134)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.5		70 (29) - 130 (146)	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	196000	7.713			
540-36-3	1,4-Difluorobenzene	412000	8.622			
3114-55-4	Chlorobenzene-d5	366000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1029SBL01	SDG No.:	P4578
Lab Sample ID:	VY1029SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020050.D	1		10/29/24 10:01	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBS01	SDG No.:	P4578
Lab Sample ID:	VX1029WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043586.D	1		10/29/24 10:57	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.5		0.21	1.00	ug/L
74-87-3	Chloromethane	16.0		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.2		0.34	1.00	ug/L
74-83-9	Bromomethane	17.4		1.40	5.00	ug/L
75-00-3	Chloroethane	19.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.7		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.4		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.4		0.26	1.00	ug/L
67-64-1	Acetone	92.3		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.2		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	16.1		0.60	1.00	ug/L
75-09-2	Methylene Chloride	17.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	20.3		1.60	5.00	ug/L
78-93-3	2-Butanone	86.1		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.25	1.00	ug/L
74-97-5	Bromochloromethane	17.5		0.18	1.00	ug/L
67-66-3	Chloroform	18.1		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	21.3		0.19	1.00	ug/L
71-43-2	Benzene	18.9		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.6		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.2		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	18.3		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	90.2		0.75	5.00	ug/L
108-88-3	Toluene	19.9		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBS01	SDG No.:	P4578
Lab Sample ID:	VX1029WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043586.D	1		10/29/24 10:57	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.7		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.5		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.8		0.21	1.00	ug/L
591-78-6	2-Hexanone	91.2		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	18.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.4		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	40.6		0.31	2.00	ug/L
95-47-6	o-Xylene	20.1		0.14	1.00	ug/L
100-42-5	Styrene	20.2		0.16	1.00	ug/L
75-25-2	Bromoform	17.8		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	20.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.5		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.7		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.3		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.3		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.5		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.2		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.9		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.1		70 (74) - 130 (125)	84%	SPK: 50
1868-53-7	Dibromofluoromethane	46.6		70 (75) - 130 (124)	93%	SPK: 50
2037-26-5	Toluene-d8	48.3		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	202000	5.544			
540-36-3	1,4-Difluorobenzene	352000	6.757			
3114-55-4	Chlorobenzene-d5	295000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	143000	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBS01	SDG No.:	P4578
Lab Sample ID:	VX1029WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043586.D	1		10/29/24 10:57	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBS01	SDG No.:	P4578
Lab Sample ID:	VY1028SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020031.D	1		10/28/24 10:40	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	16.9		1.70	5.00	ug/Kg
74-87-3	Chloromethane	16.0		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.4		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.2		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.2		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	10.9		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.8		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.3		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.6		0.69	5.00	ug/Kg
78-93-3	2-Butanone	100		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.7		2.40	5.00	ug/Kg
67-66-3	Chloroform	22.7		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.2		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.2		0.87	5.00	ug/Kg
71-43-2	Benzene	19.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.3		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.9		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	95.9		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBS01	SDG No.:	P4578
Lab Sample ID:	VY1028SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020031.D	1		10/28/24 10:40	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.6		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.3		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	100		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.0		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.5		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.1		1.40	10.0	ug/Kg
95-47-6	o-Xylene	21.1		0.70	5.00	ug/Kg
100-42-5	Styrene	21.5		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	22.4		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.1		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.3		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.5		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	54.9		70 (54) - 130 (147)	110%	SPK: 50
2037-26-5	Toluene-d8	53.7		70 (58) - 130 (134)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		70 (29) - 130 (146)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	208000	7.719			
540-36-3	1,4-Difluorobenzene	370000	8.621			
3114-55-4	Chlorobenzene-d5	306000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.352			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBS01	SDG No.:	P4578
Lab Sample ID:	VY1028SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020031.D	1		10/28/24 10:40	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1029SBS01	SDG No.:	P4578
Lab Sample ID:	VY1029SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020051.D	1		10/29/24 11:04	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	14.9		1.70	5.00	ug/Kg
74-87-3	Chloromethane	15.7		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.5		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.7		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.3		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	17.4		0.78	5.00	ug/Kg
67-64-1	Acetone	140		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	10.2		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.2		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	21.6		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.8		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.6		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.3		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	16.9		0.69	5.00	ug/Kg
78-93-3	2-Butanone	130		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	23.4		2.40	5.00	ug/Kg
67-66-3	Chloroform	23.3		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	16.1		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	22.5		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.5		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1029SBS01	SDG No.:	P4578
Lab Sample ID:	VY1029SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020051.D	1		10/29/24 11:04	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.4		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.8		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	130		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.7		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.9		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	17.8		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.3		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.6		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.8		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.2		0.70	5.00	ug/Kg
100-42-5	Styrene	21.2		0.60	5.00	ug/Kg
75-25-2	Bromoform	21.7		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.4		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	23.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.2		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.4		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	22.3		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.1		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 (54) - 130 (147)	102%	SPK: 50
2037-26-5	Toluene-d8	50.3		70 (58) - 130 (134)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		70 (29) - 130 (146)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	186000	7.72			
540-36-3	1,4-Difluorobenzene	334000	8.622			
3114-55-4	Chlorobenzene-d5	286000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	135000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1029SBS01	SDG No.:	P4578
Lab Sample ID:	VY1029SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020051.D	1		10/29/24 11:04	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBSD01	SDG No.:	P4578
Lab Sample ID:	VX1029WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043587.D	1		10/29/24 11:20	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.2		0.21	1.00	ug/L
74-87-3	Chloromethane	16.6		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.1		0.34	1.00	ug/L
74-83-9	Bromomethane	18.6		1.40	5.00	ug/L
75-00-3	Chloroethane	18.9		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.6		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.1		0.26	1.00	ug/L
67-64-1	Acetone	95.8		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.1		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	17.1		0.60	1.00	ug/L
75-09-2	Methylene Chloride	17.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.4		0.23	1.00	ug/L
110-82-7	Cyclohexane	20.1		1.60	5.00	ug/L
78-93-3	2-Butanone	91.3		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.0		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	18.8		0.18	1.00	ug/L
67-66-3	Chloroform	18.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.1		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	21.0		0.19	1.00	ug/L
71-43-2	Benzene	19.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.5		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	18.9		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	98.8		0.75	5.00	ug/L
108-88-3	Toluene	20.2		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBSD01	SDG No.:	P4578
Lab Sample ID:	VX1029WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043587.D	1		10/29/24 11:20	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.1		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.3		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.7		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.1		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.8		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	41.9		0.31	2.00	ug/L
95-47-6	o-Xylene	20.8		0.14	1.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	18.8		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	20.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.0		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.1		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.2		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.1		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.9		70 (74) - 130 (125)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		70 (75) - 130 (124)	94%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	180000	5.55			
540-36-3	1,4-Difluorobenzene	312000	6.757			
3114-55-4	Chlorobenzene-d5	270000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	131000	12.024			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBSD01	SDG No.:	P4578
Lab Sample ID:	VX1029WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043587.D	1		10/29/24 11:20	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBSD01	SDG No.:	P4578
Lab Sample ID:	VY1028SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020032.D	1		10/28/24 11:02	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	16.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	16.3		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.1		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.9		1.00	5.00	ug/Kg
75-00-3	Chloroethane	18.8		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.9		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	17.6		0.78	5.00	ug/Kg
67-64-1	Acetone	130		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	10.4		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	20.9		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.3		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.7		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.8		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	22.2		2.40	5.00	ug/Kg
67-66-3	Chloroform	22.7		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.1		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.0		0.87	5.00	ug/Kg
71-43-2	Benzene	20.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.4		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	22.0		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBSD01	SDG No.:	P4578
Lab Sample ID:	VY1028SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020032.D	1		10/28/24 11:02	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.4		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.0		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	120		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.5		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.1		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.0		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	21.4		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.5		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.5		1.40	10.0	ug/Kg
95-47-6	o-Xylene	21.1		0.70	5.00	ug/Kg
100-42-5	Styrene	21.7		0.60	5.00	ug/Kg
75-25-2	Bromoform	21.2		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.3		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	22.4		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.0		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.0		70 (50) - 130 (163)	94%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	47.1		70 (58) - 130 (134)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (29) - 130 (146)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	201000	7.713			
540-36-3	1,4-Difluorobenzene	351000	8.622			
3114-55-4	Chlorobenzene-d5	296000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBSD01	SDG No.:	P4578
Lab Sample ID:	VY1028SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020032.D	1		10/28/24 11:02	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_X Calibration Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX043556.D RRF005 = VX043557.D RRF020 = VX043558.D
RRF050 = VX043559.D RRF100 = VX043560.D RRF150 = VX043561.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.589	0.553	0.552	0.506	0.522	0.485	0.535	7
Chloromethane	0.795	0.703	0.678	0.651	0.662	0.612	0.684	9.1
Vinyl Chloride	0.626	0.674	0.638	0.634	0.643	0.591	0.634	4.2
Bromomethane		0.267	0.246	0.262	0.260	0.258	0.259	2.9
Chloroethane	0.263	0.215	0.212	0.225	0.217	0.210	0.223	9
Trichlorofluoromethane	0.823	0.776	0.710	0.779	0.846	0.716	0.775	7.1
1,1,2-Trichlorotrifluoroethane	0.522	0.546	0.522	0.525	0.539	0.491	0.524	3.7
1,1-Dichloroethene	0.533	0.555	0.521	0.536	0.556	0.513	0.536	3.3
Acetone	0.365	0.320	0.294	0.312	0.314	0.295	0.317	8.2
Carbon Disulfide	1.067	0.974	1.007	1.134	1.310	1.227	1.120	11.6
Methyl tert-butyl Ether	1.992	2.025	2.038	2.080	2.086	1.999	2.037	1.9
Methyl Acetate	0.970	0.926	0.880	0.926	0.945	0.904	0.925	3.4
Methylene Chloride	0.772	0.699	0.663	0.663	0.665	0.633	0.682	7.2
trans-1,2-Dichloroethene	0.559	0.557	0.577	0.562	0.594	0.546	0.566	3
1,1-Dichloroethane	1.103	1.105	1.103	1.109	1.135	1.048	1.101	2.6
Cyclohexane		0.860	0.885	0.839	0.857	0.768	0.842	5.3
2-Butanone	0.427	0.462	0.457	0.483	0.484	0.459	0.462	4.5
Carbon Tetrachloride	0.462	0.442	0.423	0.444	0.465	0.429	0.444	3.8
cis-1,2-Dichloroethene	0.708	0.719	0.716	0.740	0.747	0.707	0.723	2.3
Bromochloromethane	0.512	0.529	0.531	0.507	0.545	0.516	0.524	2.7
Chloroform	1.171	1.170	1.165	1.163	1.166	1.087	1.154	2.8
1,1,1-Trichloroethane	0.939	0.949	0.978	0.986	1.020	0.939	0.969	3.3
Methylcyclohexane	0.475	0.509	0.515	0.510	0.512	0.473	0.499	3.9
Benzene	1.335	1.396	1.383	1.355	1.333	1.246	1.341	4
1,2-Dichloroethane	0.455	0.488	0.500	0.495	0.489	0.466	0.482	3.6
Trichloroethene	0.321	0.345	0.338	0.338	0.341	0.317	0.333	3.4
1,2-Dichloropropane	0.327	0.339	0.325	0.338	0.333	0.320	0.330	2.2
Bromodichloromethane	0.378	0.415	0.435	0.476	0.495	0.477	0.446	10
4-Methyl-2-Pentanone	0.416	0.497	0.507	0.525	0.518	0.491	0.492	8
Toluene	0.743	0.832	0.866	0.838	0.831	0.769	0.813	5.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_X Calibration Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX043556.D RRF005 = VX043557.D RRF020 = VX043558.D
RRF050 = VX043559.D RRF100 = VX043560.D RRF150 = VX043561.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.421	0.424	0.485	0.509	0.526	0.510	0.479	9.6
cis-1,3-Dichloropropene	0.393	0.495	0.535	0.543	0.560	0.536	0.510	12
1,1,2-Trichloroethane	0.318	0.341	0.345	0.355	0.345	0.327	0.339	4.1
2-Hexanone	0.333	0.369	0.380	0.400	0.392	0.368	0.374	6.3
Dibromochloromethane	0.259	0.289	0.332	0.367	0.387	0.377	0.335	15.4
1,2-Dibromoethane	0.314	0.351	0.361	0.367	0.369	0.346	0.351	5.8
Tetrachloroethene	0.337	0.323	0.327	0.309	0.308	0.284	0.314	5.8
Chlorobenzene	1.098	1.110	1.083	1.075	1.081	1.007	1.076	3.3
Ethyl Benzene	1.757	1.763	1.799	1.777	1.794	1.634	1.754	3.5
m/p-Xylenes	0.625	0.680	0.708	0.691	0.691	0.629	0.671	5.2
o-Xylene	0.616	0.698	0.698	0.689	0.698	0.645	0.674	5.2
Styrene	1.007	1.055	1.174	1.183	1.189	1.114	1.120	6.8
Bromoform	0.203	0.206	0.230	0.275	0.304	0.297	0.253	17.9
Isopropylbenzene	3.522	3.684	3.705	3.560	3.549	3.230	3.542	4.8
1,1,2,2-Tetrachloroethane	1.210	1.355	1.316	1.292	1.276	1.193	1.274	4.9
1,3-Dichlorobenzene	1.645	1.695	1.647	1.646	1.654	1.548	1.639	3
1,4-Dichlorobenzene	1.917	1.720	1.694	1.653	1.657	1.551	1.699	7.1
1,2-Dichlorobenzene	1.638	1.735	1.698	1.726	1.675	1.586	1.676	3.4
1,2-Dibromo-3-Chloropropane	0.229	0.220	0.256	0.281	0.291	0.281	0.260	11.5
1,2,4-Trichlorobenzene	0.865	1.008	0.999	1.080	1.099	1.052	1.017	8.3
1,2,3-Trichlorobenzene	0.976	1.057	1.077	1.101	1.146	1.080	1.073	5.3
1,2-Dichloroethane-d4		0.902	0.794	0.785	0.771	0.735	0.797	7.9
Dibromofluoromethane		0.358	0.337	0.336	0.342	0.323	0.339	3.7
Toluene-d8		1.255	1.206	1.175	1.159	1.072	1.174	5.8
4-Bromofluorobenzene		0.446	0.431	0.444	0.439	0.415	0.435	2.9

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_Y Calibration Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:18 12:11

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY019827.D RRF010 = VY019828.D RRF020 = VY019829.D
RRF050 = VY019830.D RRF100 = VY019831.D RRF150 = VY019832.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.500	0.498	0.410	0.458	0.434	0.492	0.465	8.1
Chloromethane	0.643	0.637	0.517	0.616	0.550	0.671	0.606	9.8
Vinyl Chloride	0.707	0.685	0.579	0.688	0.624	0.716	0.667	8
Bromomethane	0.458	0.447	0.357	0.433	0.390	0.447	0.422	9.4
Chloroethane	0.493	0.469	0.390	0.456	0.408	0.472	0.448	8.9
Trichlorofluoromethane	1.101	1.016	0.868	1.000	0.915	1.051	0.992	8.7
1,1,2-Trichlorotrifluoroethane	0.619	0.611	0.509	0.581	0.535	0.606	0.577	7.8
1,1-Dichloroethene	0.588	0.558	0.453	0.550	0.499	0.570	0.536	9.4
Acetone	0.196	0.156	0.134	0.170	0.152	0.153	0.160	12.9
Carbon Disulfide	1.501	1.392	1.193	1.552	1.404	1.586	1.438	10
Methyl tert-butyl Ether	1.719	1.559	1.334	1.574	1.443	1.617	1.541	8.8
Methyl Acetate	0.393	0.334	0.301	0.350	0.321	0.372	0.345	9.7
Methylene Chloride	0.869	0.695	0.551	0.619	0.543	0.603	0.647	18.9
trans-1,2-Dichloroethene	0.630	0.597	0.511	0.605	0.547	0.612	0.584	7.7
1,1-Dichloroethane	1.288	1.219	1.025	1.202	1.084	1.214	1.172	8.3
Cyclohexane	1.262	1.098	0.863	1.009	0.915	1.024	1.029	13.8
2-Butanone	0.251	0.217	0.186	0.222	0.201	0.211	0.215	10.2
Carbon Tetrachloride	0.525	0.505	0.446	0.527	0.495	0.559	0.510	7.5
cis-1,2-Dichloroethene	0.777	0.766	0.628	0.740	0.669	0.749	0.721	8.2
Bromochloromethane	0.607	0.470	0.502	0.529	0.483	0.504	0.516	9.5
Chloroform	1.318	1.238	1.055	1.225	1.102	1.229	1.195	8.1
1,1,1-Trichloroethane	1.118	1.091	0.915	1.067	0.978	1.112	1.047	7.9
Methylcyclohexane	0.629	0.584	0.512	0.629	0.581	0.658	0.599	8.6
Benzene	1.512	1.474	1.283	1.488	1.361	1.514	1.439	6.6
1,2-Dichloroethane	0.448	0.399	0.368	0.430	0.398	0.436	0.413	7.3
Trichloroethene	0.381	0.340	0.300	0.366	0.333	0.370	0.348	8.7
1,2-Dichloropropane	0.390	0.375	0.322	0.366	0.337	0.371	0.360	7.1
Bromodichloromethane	0.549	0.524	0.456	0.543	0.501	0.560	0.522	7.4
4-Methyl-2-Pentanone	0.281	0.247	0.220	0.269	0.254	0.275	0.258	8.7
Toluene	0.930	0.892	0.800	0.940	0.866	0.960	0.898	6.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_Y Calibration Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:18 12:11

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY019827.D RRF010 = VY019828.D RRF020 = VY019829.D
RRF050 = VY019830.D RRF100 = VY019831.D RRF150 = VY019832.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.477	0.448	0.408	0.497	0.464	0.524	0.470	8.6
cis-1,3-Dichloropropene	0.577	0.537	0.489	0.579	0.542	0.603	0.554	7.3
1,1,2-Trichloroethane	0.280	0.257	0.230	0.269	0.248	0.271	0.259	6.9
2-Hexanone	0.193	0.173	0.160	0.197	0.185	0.197	0.184	8.1
Dibromochloromethane	0.348	0.317	0.294	0.344	0.328	0.364	0.333	7.5
1,2-Dibromoethane	0.244	0.234	0.207	0.246	0.226	0.248	0.234	6.7
Tetrachloroethene	0.379	0.366	0.316	0.368	0.328	0.377	0.356	7.6
Chlorobenzene	1.226	1.167	1.032	1.171	1.064	1.202	1.144	6.8
Ethyl Benzene	2.177	2.100	1.861	2.164	1.953	2.209	2.077	6.7
m/p-Xylenes	0.802	0.781	0.691	0.796	0.720	0.813	0.767	6.5
o-Xylene	0.750	0.756	0.665	0.769	0.700	0.783	0.737	6.1
Styrene	1.276	1.238	1.120	1.304	1.191	1.333	1.244	6.3
Bromoform	0.208	0.198	0.180	0.220	0.204	0.232	0.207	8.7
Isopropylbenzene	4.420	4.371	3.794	4.268	3.912	4.470	4.206	6.7
1,1,2,2-Tetrachloroethane	0.796	0.737	0.664	0.763	0.719	0.805	0.747	7
1,3-Dichlorobenzene	1.968	1.892	1.598	1.819	1.651	1.887	1.802	8.1
1,4-Dichlorobenzene	1.928	1.831	1.572	1.801	1.635	1.856	1.771	7.8
1,2-Dichlorobenzene	1.716	1.620	1.416	1.612	1.474	1.663	1.584	7.3
1,2-Dibromo-3-Chloropropane	0.133	0.115	0.100	0.121	0.118	0.129	0.119	9.7
1,2,4-Trichlorobenzene	0.860	0.832	0.758	0.965	0.886	1.027	0.888	10.8
1,2,3-Trichlorobenzene	0.716	0.698	0.634	0.823	0.761	0.872	0.751	11.5
1,2-Dichloroethane-d4	0.701	0.656	0.566	0.581	0.583	0.607	0.616	8.5
Dibromofluoromethane	0.356	0.335	0.300	0.321	0.326	0.341	0.330	5.8
Toluene-d8	1.299	1.254	1.134	1.185	1.191	1.246	1.218	4.9
4-Bromofluorobenzene	0.498	0.438	0.402	0.426	0.427	0.450	0.440	7.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_X Calibration Date/Time: 10/29/2024 09:29

Lab File ID: VX043583.D Init. Calib. Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.535	0.520		-2.8	20
Chloromethane	0.684	0.597	0.1	-12.72	20
Vinyl Chloride	0.634	0.614		-3.31	20
Bromomethane	0.259	0.236		-8.88	20
Chloroethane	0.223	0.209		-6.28	20
Trichlorofluoromethane	0.775	0.759		-2.07	20
1,1,2-Trichlorotrifluoroethane	0.524	0.542		3.43	20
1,1-Dichloroethene	0.536	0.536		0	20
Acetone	0.317	0.297		-6.31	20
Carbon Disulfide	1.120	1.146		2.32	20
Methyl tert-butyl Ether	2.037	1.814		-10.95	20
Methyl Acetate	0.925	0.736		-20.43	20
Methylene Chloride	0.682	0.601		-11.88	20
trans-1,2-Dichloroethene	0.566	0.555		-1.94	20
1,1-Dichloroethane	1.101	1.028	0.1	-6.63	20
Cyclohexane	0.842	0.867		2.97	20
2-Butanone	0.462	0.403		-12.77	20
Carbon Tetrachloride	0.444	0.466		4.95	20
cis-1,2-Dichloroethene	0.723	0.687		-4.98	20
Bromochloromethane	0.524	0.462		-11.83	20
Chloroform	1.154	1.065		-7.71	20
1,1,1-Trichloroethane	0.969	0.948		-2.17	20
Methylcyclohexane	0.499	0.574		15.03	20
Benzene	1.341	1.333		-0.6	20
1,2-Dichloroethane	0.482	0.452		-6.22	20
Trichloroethene	0.333	0.351		5.41	20
1,2-Dichloropropane	0.330	0.327		-0.91	20
Bromodichloromethane	0.446	0.461		3.36	20
4-Methyl-2-Pentanone	0.492	0.451		-8.33	20
Toluene	0.813	0.854		5.04	20
t-1,3-Dichloropropene	0.479	0.490		2.3	20
cis-1,3-Dichloropropene	0.510	0.537		5.29	20
1,1,2-Trichloroethane	0.339	0.329		-2.95	20
2-Hexanone	0.374	0.352		-5.88	20
Dibromochloromethane	0.335	0.358		6.87	20
1,2-Dibromoethane	0.351	0.346		-1.42	20
Tetrachloroethene	0.314	0.333		6.05	20
Chlorobenzene	1.076	1.092	0.3	1.49	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_X Calibration Date/Time: 10/29/2024 09:29

Lab File ID: VX043583.D Init. Calib. Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.754	1.860		6.04	20
m/p-Xylenes	0.671	0.725		8.05	20
o-Xylene	0.674	0.708		5.05	20
Styrene	1.120	1.213		8.3	20
Bromoform	0.253	0.265	0.1	4.74	20
Isopropylbenzene	3.542	3.725		5.17	20
1,1,2,2-Tetrachloroethane	1.274	1.176	0.3	-7.69	20
1,3-Dichlorobenzene	1.639	1.707		4.15	20
1,4-Dichlorobenzene	1.699	1.695		-0.23	20
1,2-Dichlorobenzene	1.676	1.698		1.31	20
1,2-Dibromo-3-Chloropropane	0.260	0.235		-9.61	20
1,2,4-Trichlorobenzene	1.017	1.094		7.57	20
1,2,3-Trichlorobenzene	1.073	1.122		4.57	20
1,2-Dichloroethane-d4	0.797	0.708		-11.17	20
Dibromofluoromethane	0.339	0.345		1.77	20
Toluene-d8	1.174	1.260		7.32	20
4-Bromofluorobenzene	0.435	0.471		8.28	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_Y Calibration Date/Time: 10/28/2024 09:29

Lab File ID: VY020029.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.465	0.387		-16.77	20
Chloromethane	0.606	0.595	0.1	-1.82	20
Vinyl Chloride	0.667	0.667		0	20
Bromomethane	0.422	0.450		6.64	20
Chloroethane	0.448	0.484		8.04	20
Trichlorofluoromethane	0.992	0.996		0.4	20
1,1,2-Trichlorotrifluoroethane	0.577	0.592		2.6	20
1,1-Dichloroethene	0.536	0.519		-3.17	20
Acetone	0.160	0.184		15	20
Carbon Disulfide	1.438	1.190		-17.25	20
Methyl tert-butyl Ether	1.541	1.548		0.45	20
Methyl Acetate	0.345	0.377		9.27	20
Methylene Chloride	0.647	0.620		-4.17	20
trans-1,2-Dichloroethene	0.584	0.588		0.69	20
1,1-Dichloroethane	1.172	1.320	0.1	12.63	20
Cyclohexane	1.029	0.998		-3.01	20
2-Butanone	0.215	0.224		4.19	20
Carbon Tetrachloride	0.510	0.566		10.98	20
cis-1,2-Dichloroethene	0.721	0.773		7.21	20
Bromochloromethane	0.516	0.537		4.07	20
Chloroform	1.195	1.366		14.31	20
1,1,1-Trichloroethane	1.047	1.178		12.51	20
Methylcyclohexane	0.599	0.605		1	20
Benzene	1.439	1.597		10.98	20
1,2-Dichloroethane	0.413	0.447		8.23	20
Trichloroethene	0.348	0.373		7.18	20
1,2-Dichloropropane	0.360	0.410		13.89	20
Bromodichloromethane	0.522	0.599		14.75	20
4-Methyl-2-Pentanone	0.258	0.266		3.1	20
Toluene	0.898	1.015		13.03	20
t-1,3-Dichloropropene	0.470	0.510		8.51	20
cis-1,3-Dichloropropene	0.554	0.609		9.93	20
1,1,2-Trichloroethane	0.259	0.279		7.72	20
2-Hexanone	0.184	0.195		5.98	20
Dibromochloromethane	0.333	0.358		7.51	20
1,2-Dibromoethane	0.234	0.239		2.14	20
Tetrachloroethene	0.356	0.353		-0.84	20
Chlorobenzene	1.144	1.258	0.3	9.97	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_Y Calibration Date/Time: 10/28/2024 09:29

Lab File ID: VY020029.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.077	2.358		13.53	20
m/p-Xylenes	0.767	0.848		10.56	20
o-Xylene	0.737	0.809		9.77	20
Styrene	1.244	1.415		13.75	20
Bromoform	0.207	0.217	0.1	4.83	20
Isopropylbenzene	4.206	4.766		13.31	20
1,1,2,2-Tetrachloroethane	0.747	0.780	0.3	4.42	20
1,3-Dichlorobenzene	1.802	1.927		6.94	20
1,4-Dichlorobenzene	1.771	1.886		6.49	20
1,2-Dichlorobenzene	1.584	1.658		4.67	20
1,2-Dibromo-3-Chloropropane	0.119	0.112		-5.88	20
1,2,4-Trichlorobenzene	0.888	0.864		-2.7	20
1,2,3-Trichlorobenzene	0.751	0.715		-4.79	20
1,2-Dichloroethane-d4	0.616	0.615		-0.16	20
Dibromofluoromethane	0.330	0.356		7.88	20
Toluene-d8	1.218	1.274		4.6	20
4-Bromofluorobenzene	0.440	0.458		4.09	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_Y Calibration Date/Time: 10/29/2024 09:31

Lab File ID: VY020049.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.465	0.383		-17.63	20
Chloromethane	0.606	0.593	0.1	-2.14	20
Vinyl Chloride	0.667	0.694		4.05	20
Bromomethane	0.422	0.450		6.64	20
Chloroethane	0.448	0.501		11.83	20
Trichlorofluoromethane	0.992	1.025		3.33	20
1,1,2-Trichlorotrifluoroethane	0.577	0.614		6.41	20
1,1-Dichloroethene	0.536	0.519		-3.17	20
Acetone	0.160	0.195		21.88	20
Carbon Disulfide	1.438	1.194		-16.97	20
Methyl tert-butyl Ether	1.541	1.647		6.88	20
Methyl Acetate	0.345	0.400		15.94	20
Methylene Chloride	0.647	0.645		-0.31	20
trans-1,2-Dichloroethene	0.584	0.597		2.23	20
1,1-Dichloroethane	1.172	1.365	0.1	16.47	20
Cyclohexane	1.029	1.013		-1.55	20
2-Butanone	0.215	0.246		14.42	20
Carbon Tetrachloride	0.510	0.585		14.71	20
cis-1,2-Dichloroethene	0.721	0.800		10.96	20
Bromochloromethane	0.516	0.579		12.21	20
Chloroform	1.195	1.405		17.57	20
1,1,1-Trichloroethane	1.047	1.210		15.57	20
Methylcyclohexane	0.599	0.611		2	20
Benzene	1.439	1.633		13.48	20
1,2-Dichloroethane	0.413	0.464		12.35	20
Trichloroethene	0.348	0.373		7.18	20
1,2-Dichloropropane	0.360	0.422		17.22	20
Bromodichloromethane	0.522	0.617		18.2	20
4-Methyl-2-Pentanone	0.258	0.299		15.89	20
Toluene	0.898	1.046		16.48	20
t-1,3-Dichloropropene	0.470	0.538		14.47	20
cis-1,3-Dichloropropene	0.554	0.628		13.36	20
1,1,2-Trichloroethane	0.259	0.297		14.67	20
2-Hexanone	0.184	0.220		19.57	20
Dibromochloromethane	0.333	0.380		14.11	20
1,2-Dibromoethane	0.234	0.255		8.97	20
Tetrachloroethene	0.356	0.365		2.53	20
Chlorobenzene	1.144	1.294	0.3	13.11	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_Y Calibration Date/Time: 10/29/2024 09:31

Lab File ID: VY020049.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.077	2.430		17	20
m/p-Xylenes	0.767	0.886		15.52	20
o-Xylene	0.737	0.853		15.74	20
Styrene	1.244	1.454		16.88	20
Bromoform	0.207	0.236	0.1	14.01	20
Isopropylbenzene	4.206	4.808		14.31	20
1,1,2,2-Tetrachloroethane	0.747	0.845	0.3	13.12	20
1,3-Dichlorobenzene	1.802	1.973		9.49	20
1,4-Dichlorobenzene	1.771	1.931		9.03	20
1,2-Dichlorobenzene	1.584	1.731		9.28	20
1,2-Dibromo-3-Chloropropane	0.119	0.125		5.04	20
1,2,4-Trichlorobenzene	0.888	0.903		1.69	20
1,2,3-Trichlorobenzene	0.751	0.754		0.4	20
1,2-Dichloroethane-d4	0.616	0.598		-2.92	20
Dibromofluoromethane	0.330	0.325		-1.51	20
Toluene-d8	1.218	1.184		-2.79	20
4-Bromofluorobenzene	0.440	0.424		-3.64	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043597.D
Acq On : 29 Oct 2024 15:15
Operator : JC/MD
Sample : P4578-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Quant Time: Oct 30 01:33:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

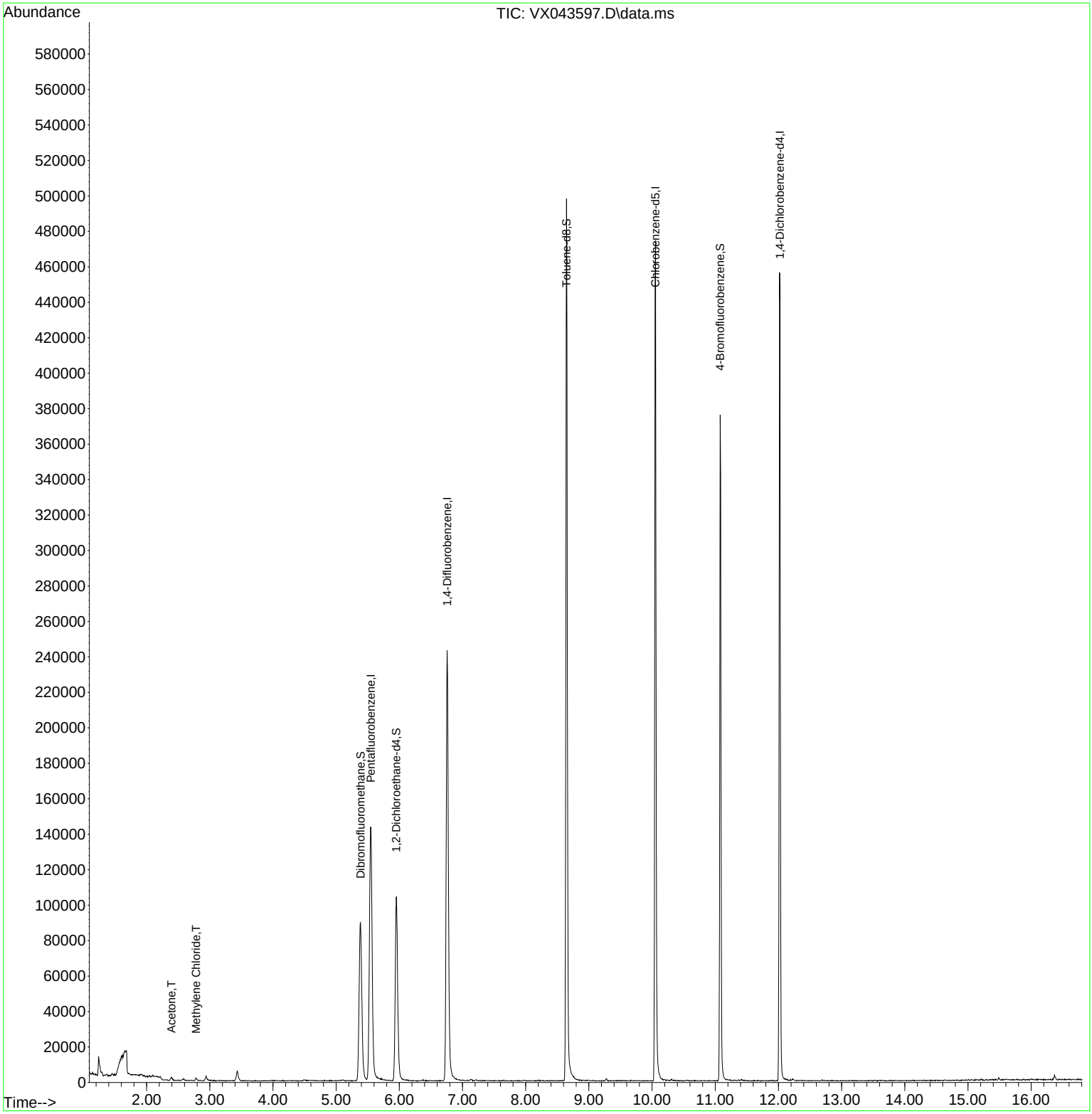
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	142289	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	262462	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	231278	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	100896	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	99807	43.991	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 87.980%			
35) Dibromofluoromethane	5.385	113	83334	46.824	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.640%			
50) Toluene-d8	8.647	98	314533	51.054	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.100%			
62) 4-Bromofluorobenzene	11.079	95	108691	47.611	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.220%			
Target Compounds						Qvalue
16) Acetone	2.392	43	2008	2.229	ug/l	90
20) Methylene Chloride	2.782	84	694	0.357	ug/l #	72

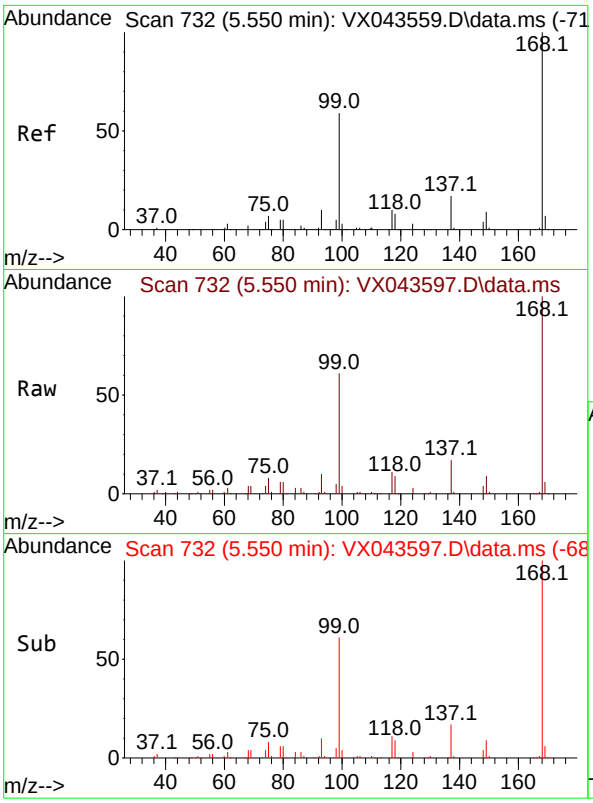
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043597.D
Acq On : 29 Oct 2024 15:15
Operator : JC/MD
Sample : P4578-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Quant Time: Oct 30 01:33:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



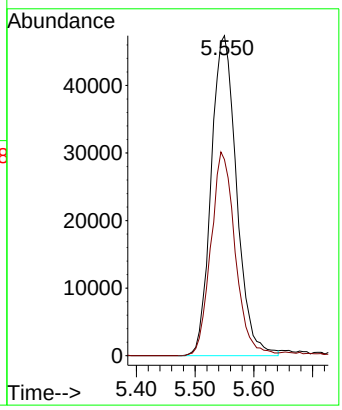


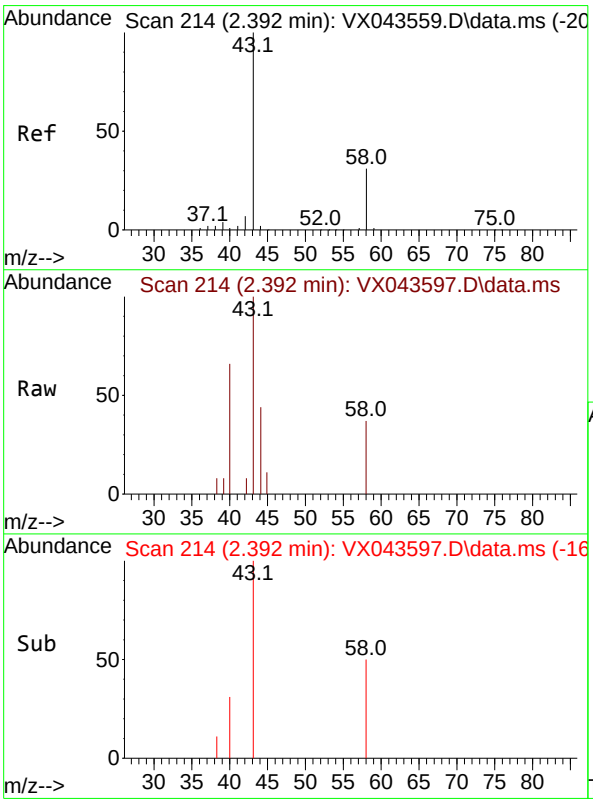
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Tgt Ion:168 Resp: 142289

Ion	Ratio	Lower	Upper
168	100		
99	61.3	52.6	78.8

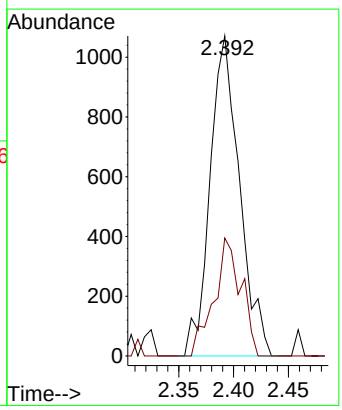


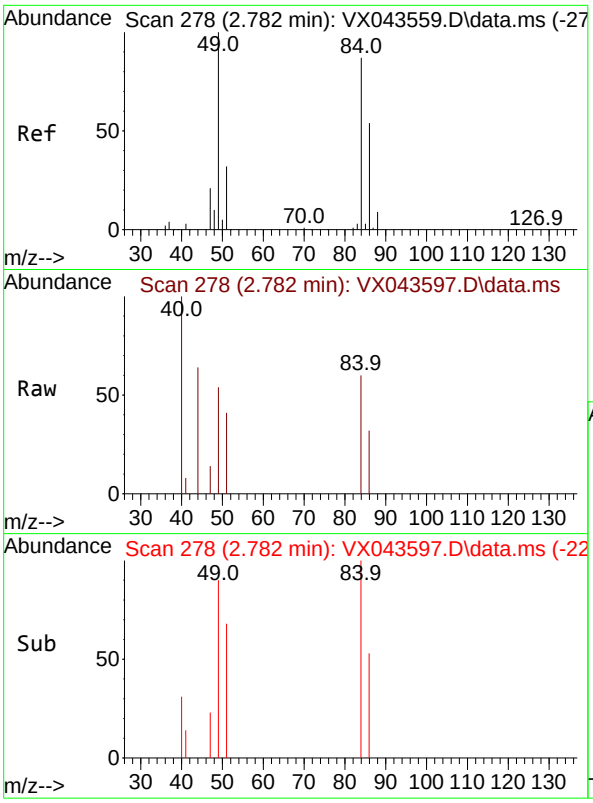


#16
Acetone
Concen: 2.229 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

Tgt Ion: 43 Resp: 2008

Ion	Ratio	Lower	Upper
43	100		
58	36.9	25.1	37.7



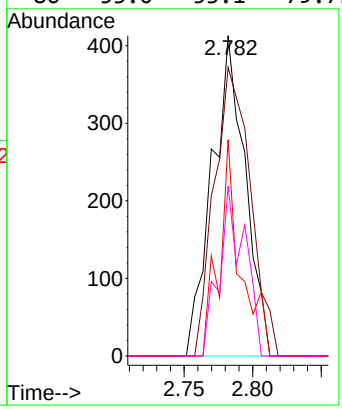


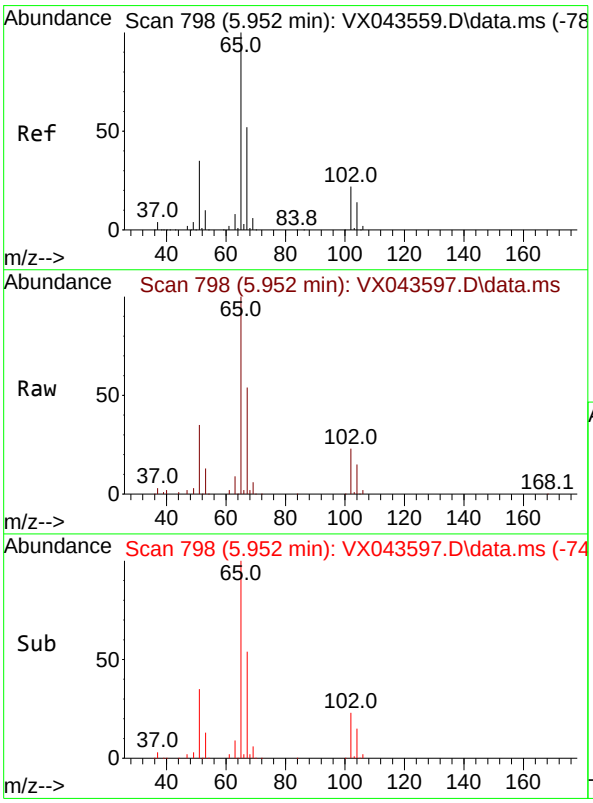
#20
Methylene Chloride
Concen: 0.357 ug/l
RT: 2.782 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Tgt Ion: 84 Resp: 694

Ion	Ratio	Lower	Upper
84	100		
49	90.1	97.0	145.6#
51	67.6	29.8	44.8#
86	53.0	53.1	79.7#

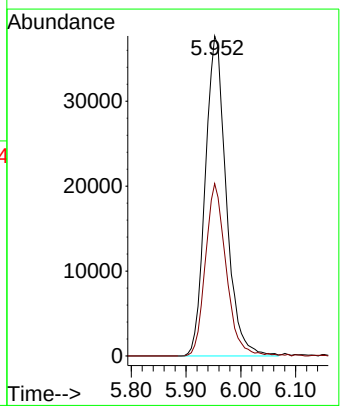


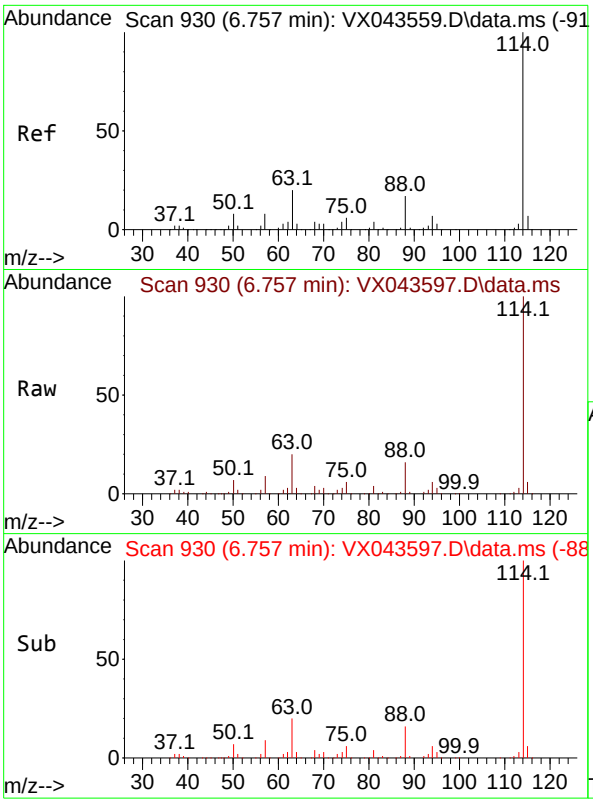


#33
1,2-Dichloroethane-d4
Concen: 43.991 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

Tgt Ion: 65 Resp: 99807

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	103.4



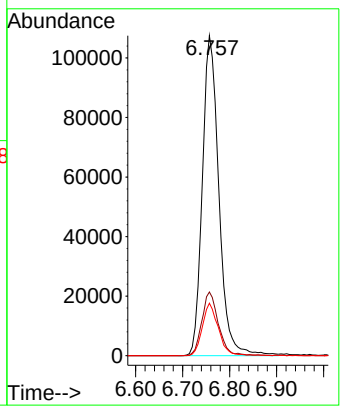


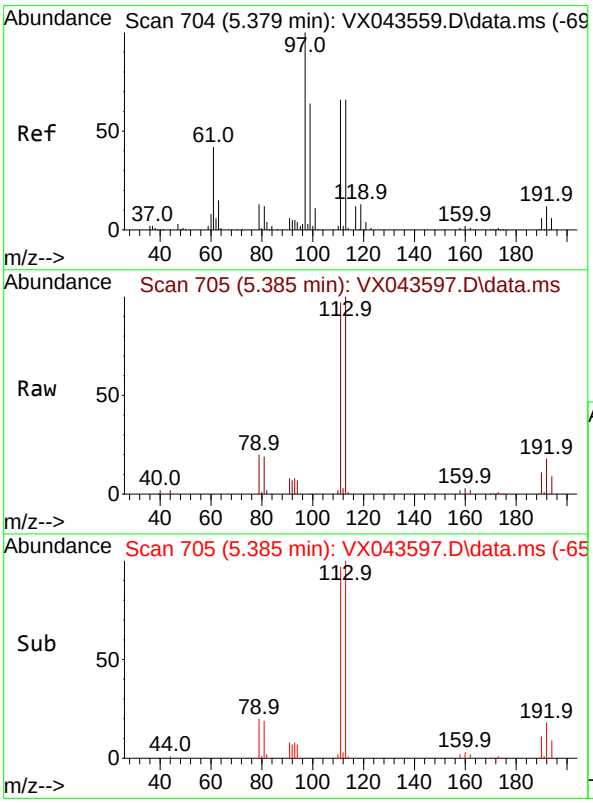
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Tgt Ion:114 Resp: 262462

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	41.2
88	16.4	0.0	34.0

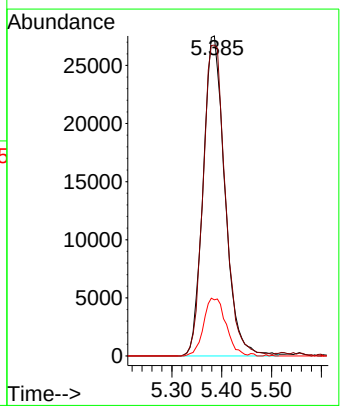


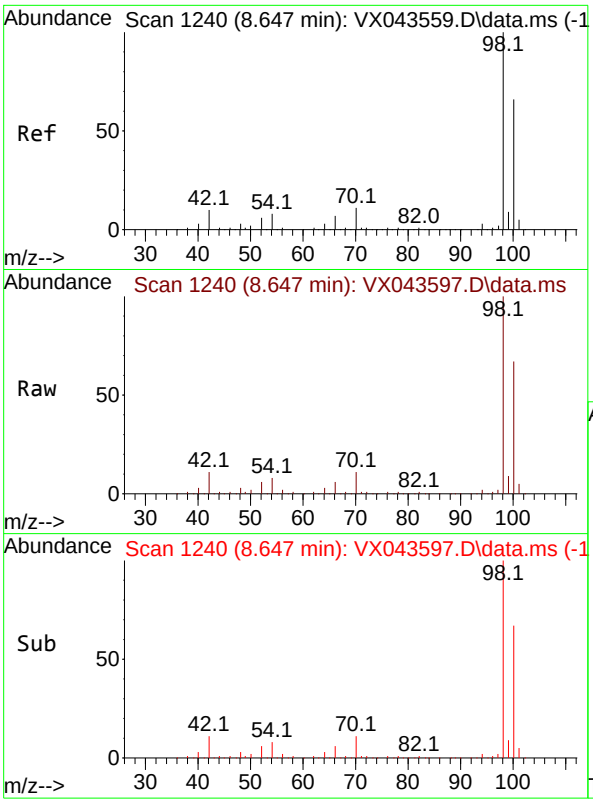


#35
Dibromofluoromethane
Concen: 46.824 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

Tgt Ion:113 Resp: 83334

Ion	Ratio	Lower	Upper
113	100		
111	99.6	81.4	122.0
192	18.5	14.1	21.1



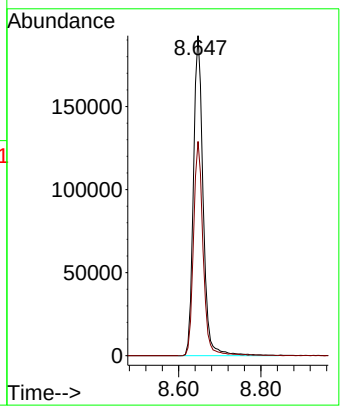


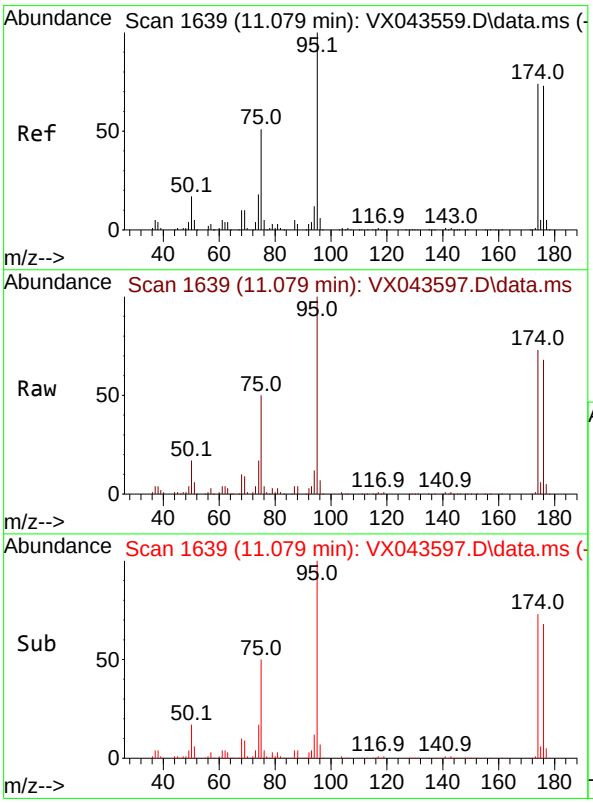
#50
Toluene-d8
Concen: 51.054 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Tgt Ion: 98 Resp: 314533

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.4	80.2

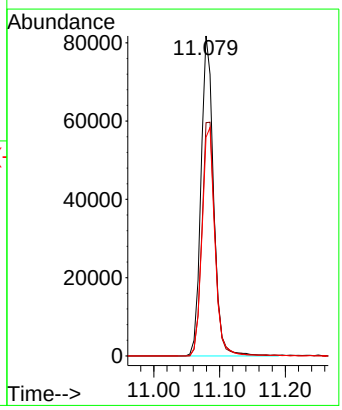


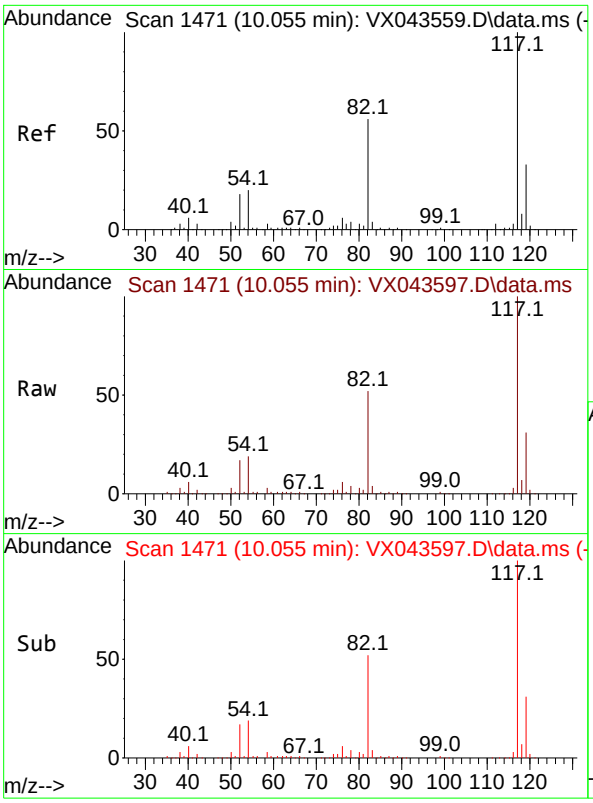


#62
4-Bromofluorobenzene
Concen: 47.611 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

Tgt Ion: 95 Resp: 108691

Ion	Ratio	Lower	Upper
95	100		
174	76.2	0.0	146.6
176	72.9	0.0	139.6



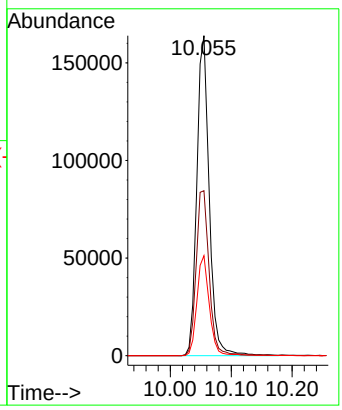


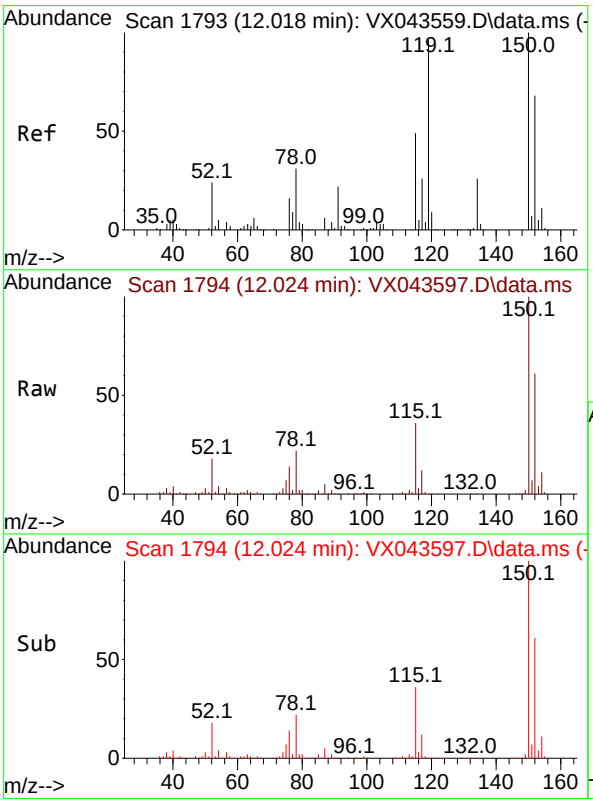
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Tgt Ion:117 Resp: 231278

Ion	Ratio	Lower	Upper
117	100		
82	51.6	42.1	63.1
119	31.3	25.4	38.2

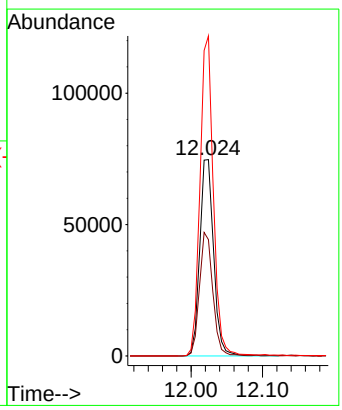




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

Tgt Ion:152 Resp: 100896

Ion	Ratio	Lower	Upper
152	100		
115	60.3	42.9	128.7
150	156.0	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043597.D
Acq On : 29 Oct 2024 15:15
Operator : JC/MD
Sample : P4578-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Title : SW846 8260

Signal : TIC: VX043597.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	22	25	32	rBV2	10771	18453	2.28%	0.436%
2	1.605	70	85	86	rBV7	11045	36857	4.55%	0.871%
3	3.434	378	385	394	rBV5	5455	12146	1.50%	0.287%
4	5.385	694	705	721	rBV	89072	268161	33.09%	6.338%
5	5.550	721	732	747	rBV	142338	421243	51.98%	9.956%
6	5.952	789	798	813	rBV	103735	275217	33.96%	6.505%
7	6.757	920	930	951	rBV	242616	593865	73.28%	14.036%
8	8.647	1233	1240	1258	rBV	497302	810382	100.00%	19.153%
9	10.055	1465	1471	1487	rBV	473885	689505	85.08%	16.296%
10	11.079	1634	1639	1653	rBV	375302	503583	62.14%	11.902%
11	12.018	1788	1793	1806	rBV	455821	601657	74.24%	14.220%

Sum of corrected areas: 4231069

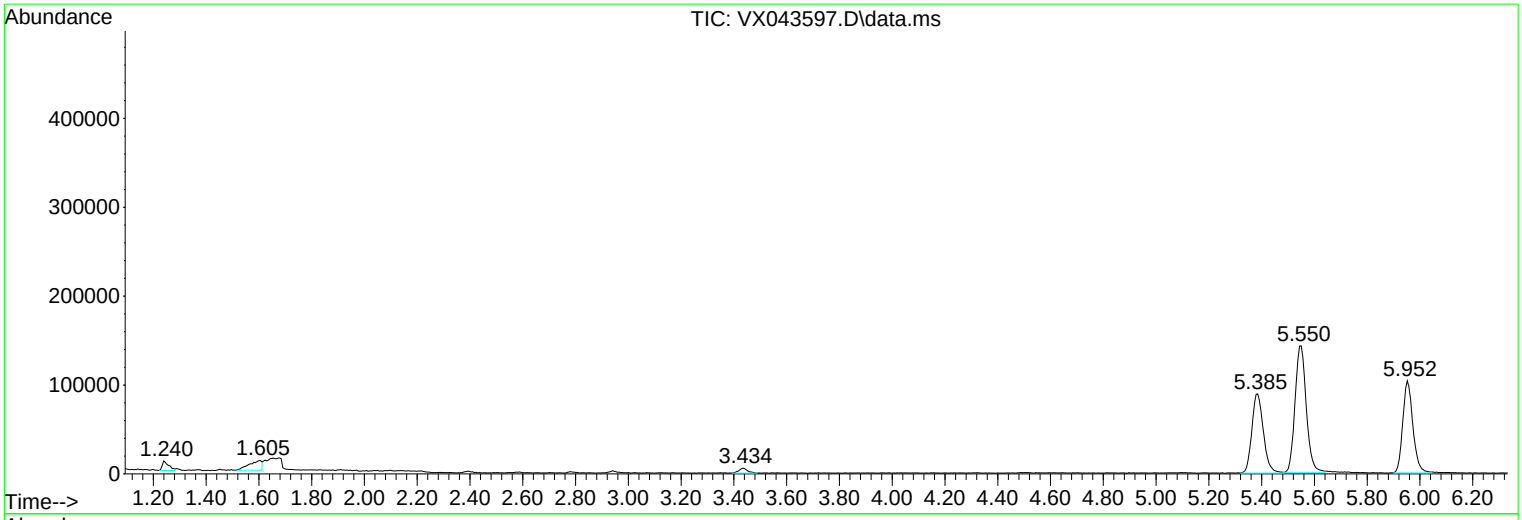
Sample Results: **VX043597.D**

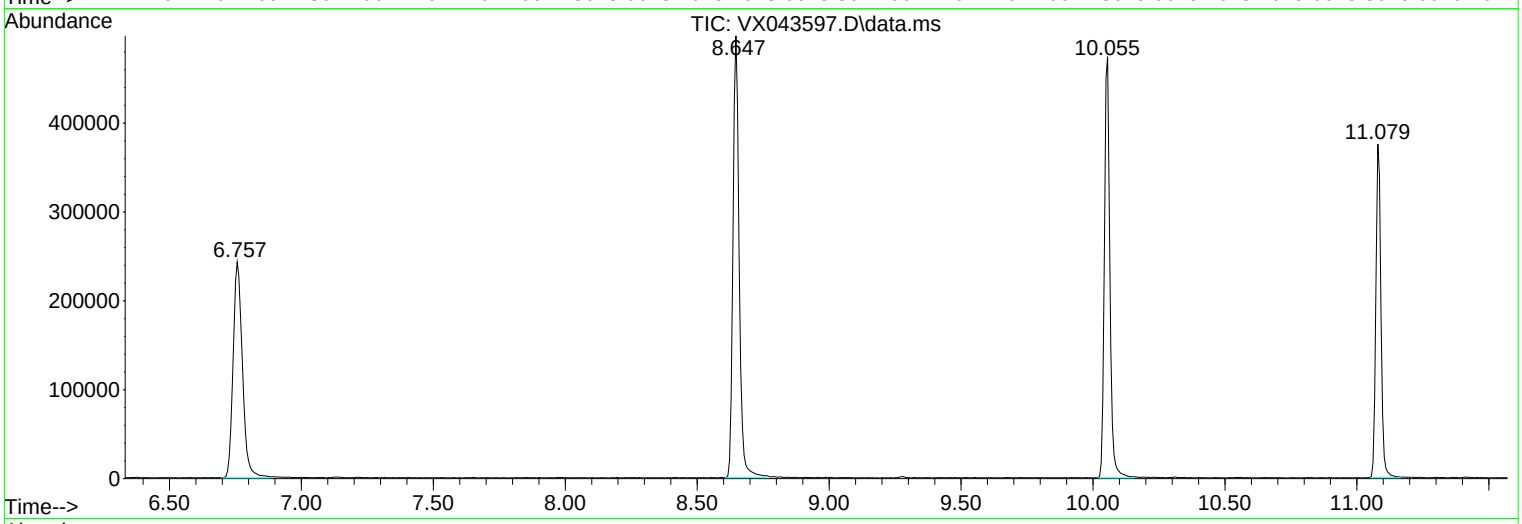
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043597.D
Acq On : 29 Oct 2024 15:15
Operator : JC/MD
Sample : P4578-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

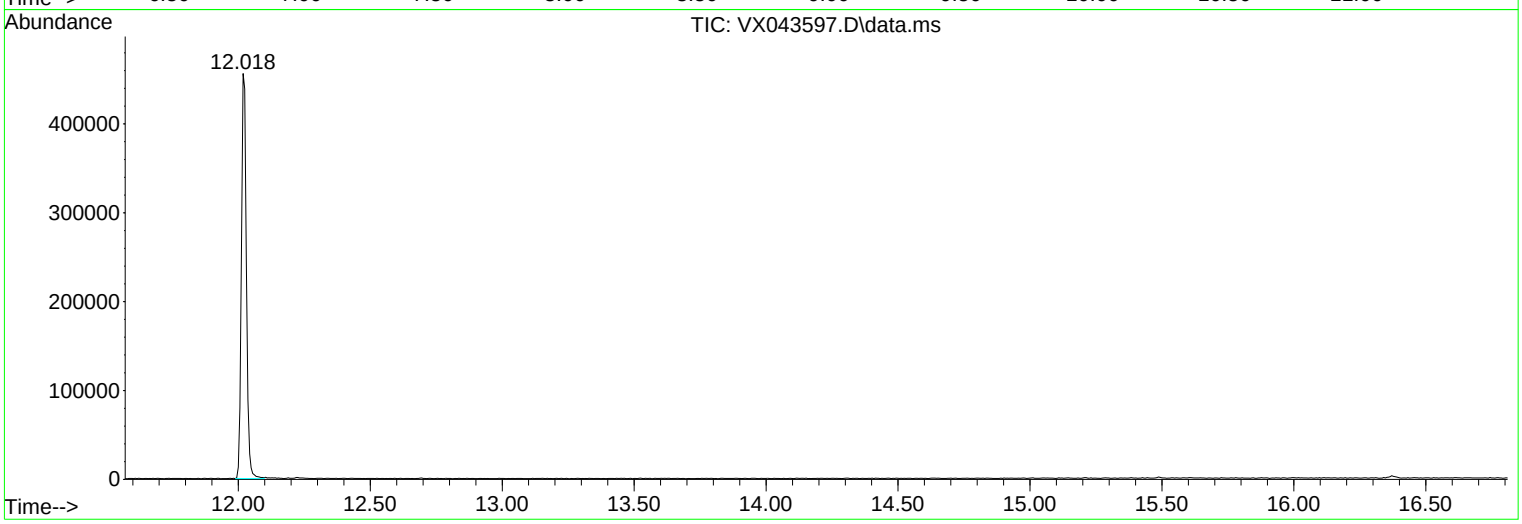
Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043597.D
Acq On : 29 Oct 2024 15:15
Operator : JC/MD
Sample : P4578-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043597.D
Acq On : 29 Oct 2024 15:15
Operator : JC/MD
Sample : P4578-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043598.D
Acq On : 29 Oct 2024 15:38
Operator : JC/MD
Sample : P4578-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Quant Time: Oct 30 01:33:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

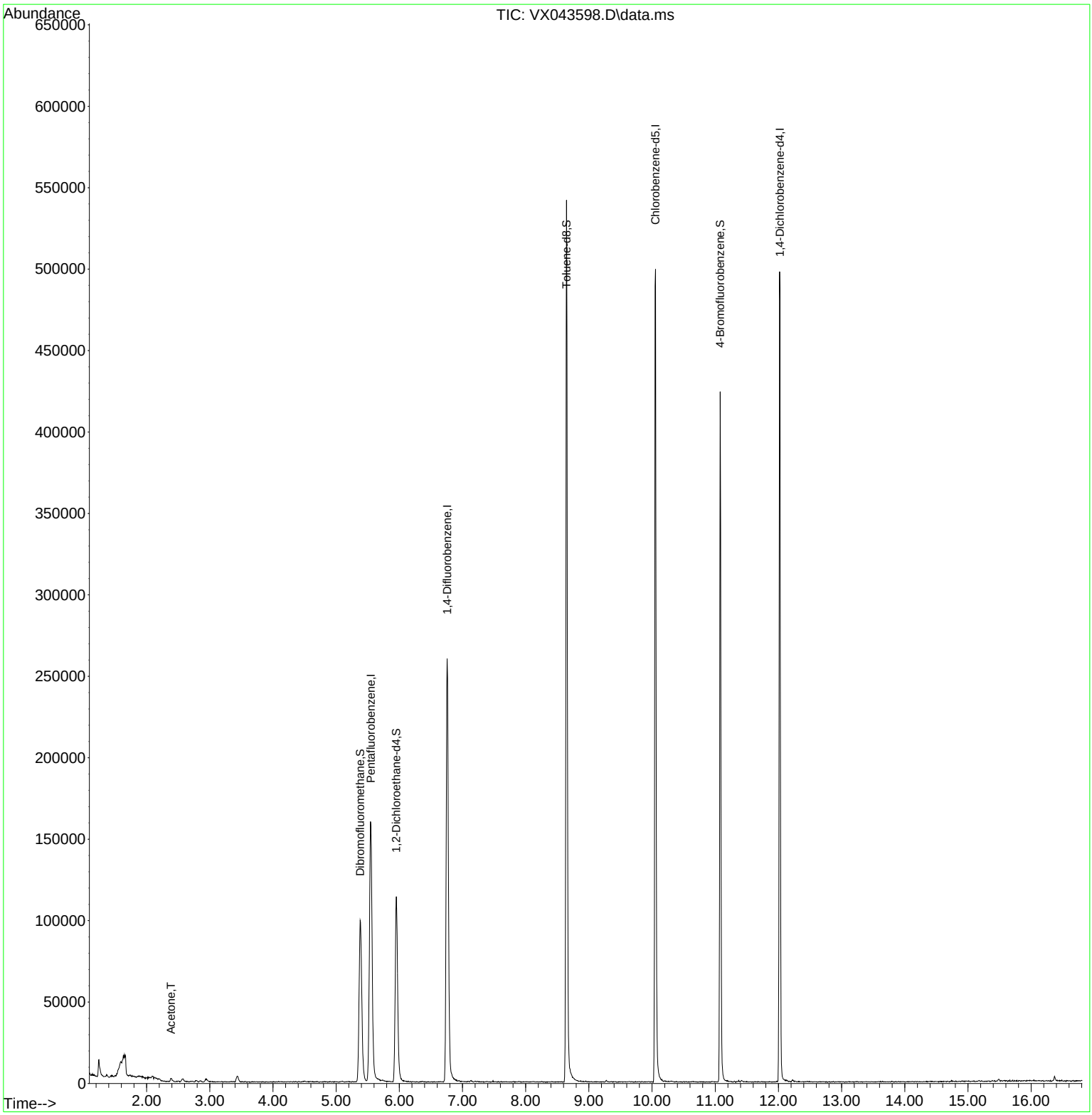
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	158213	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	288734	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	248859	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	107787	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109236	43.300	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 86.600%			
35) Dibromofluoromethane	5.379	113	90041	45.989	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.980%			
50) Toluene-d8	8.647	98	340477	50.236	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.480%			
62) 4-Bromofluorobenzene	11.079	95	116872	46.536	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.080%			
Target Compounds						Qvalue
16) Acetone	2.386	43	2452	2.448	ug/l #	87

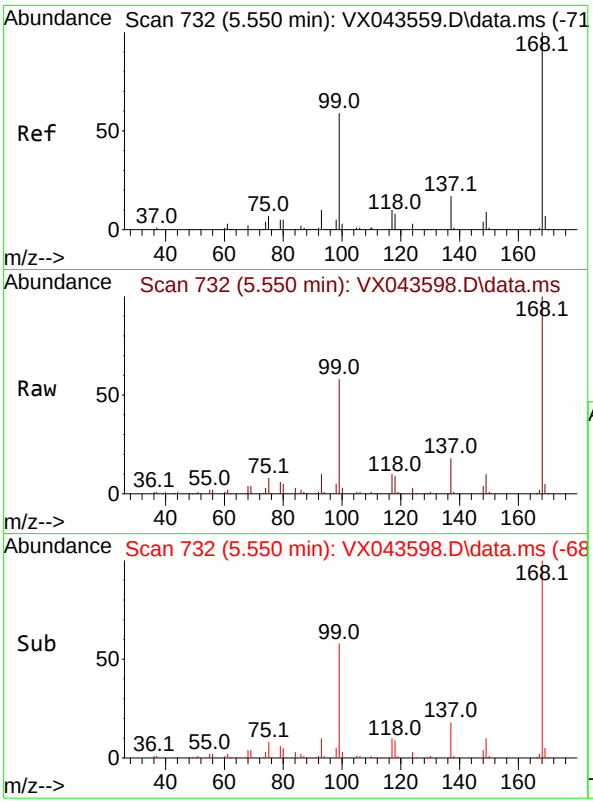
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043598.D
Acq On : 29 Oct 2024 15:38
Operator : JC/MD
Sample : P4578-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Quant Time: Oct 30 01:33:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



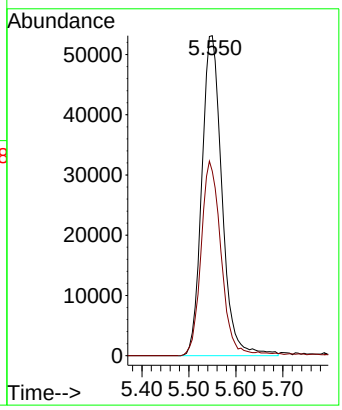


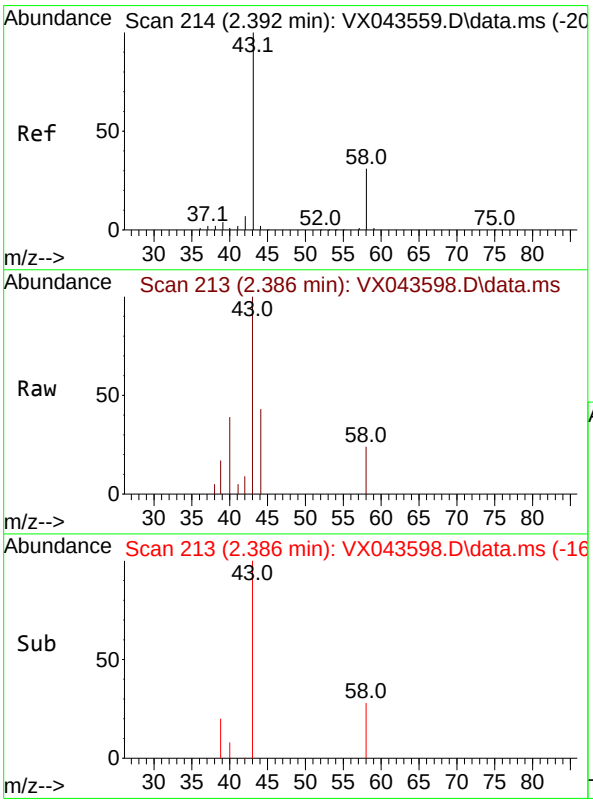
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Tgt Ion:168 Resp: 158213

Ion	Ratio	Lower	Upper
168	100		
99	57.6	52.6	78.8

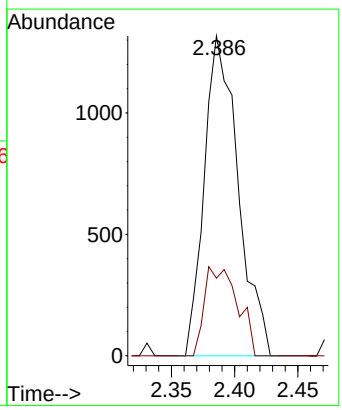


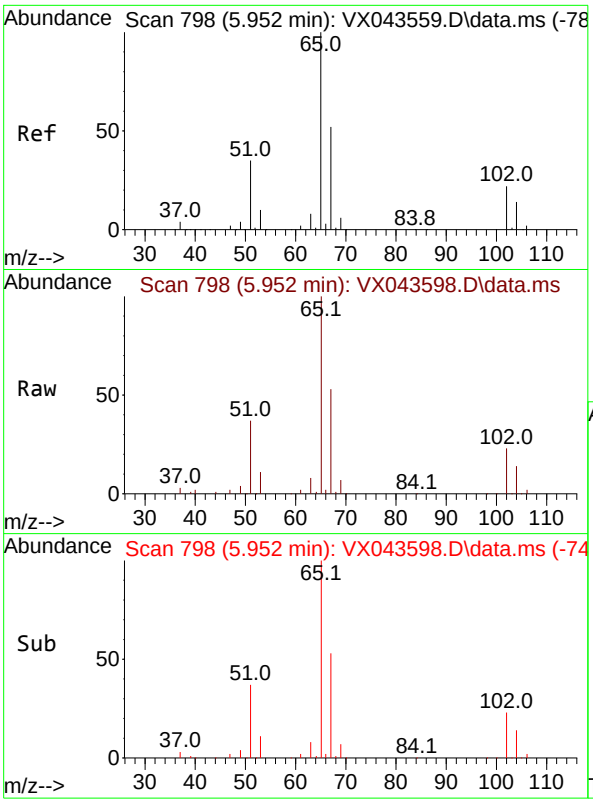


#16
Acetone
Concen: 2.448 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.012 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

Tgt Ion: 43 Resp: 2452

Ion	Ratio	Lower	Upper
43	100		
58	24.3	25.1	37.7#



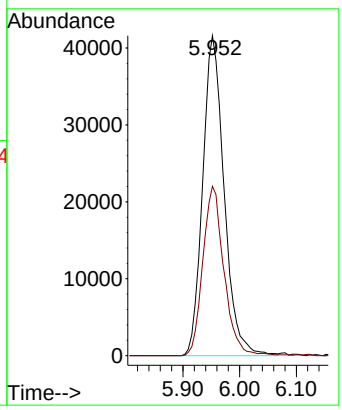


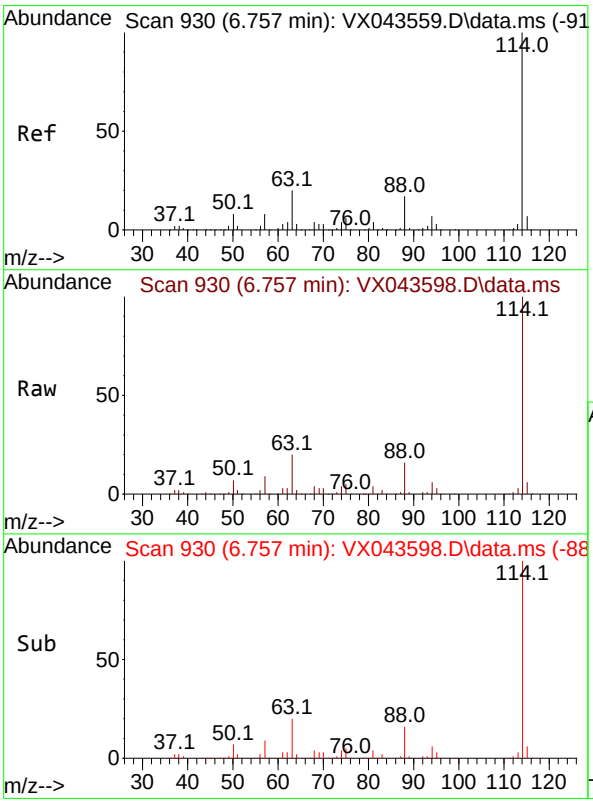
#33
1,2-Dichloroethane-d4
Concen: 43.300 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Tgt Ion: 65 Resp: 109236

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.4

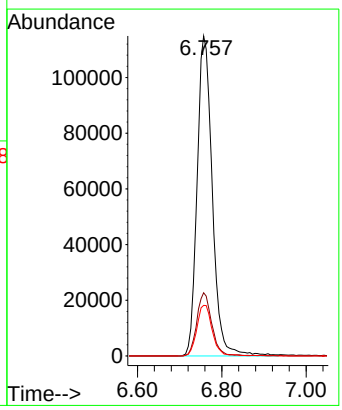


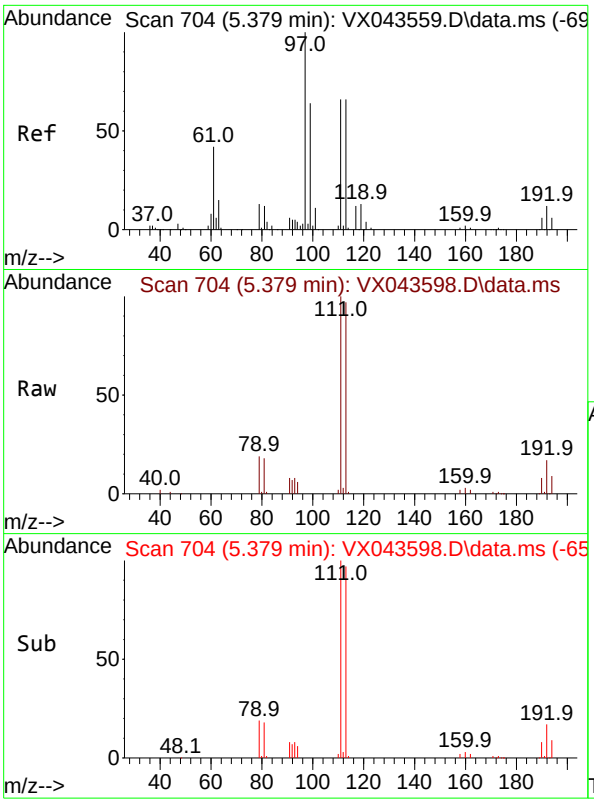


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

Tgt Ion:114 Resp: 288734

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	41.2
88	15.8	0.0	34.0



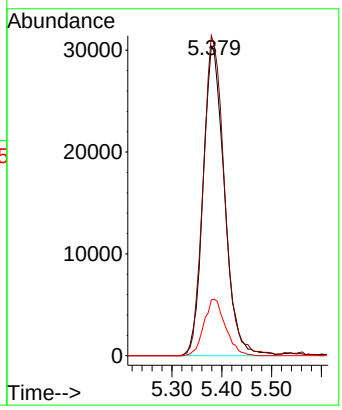


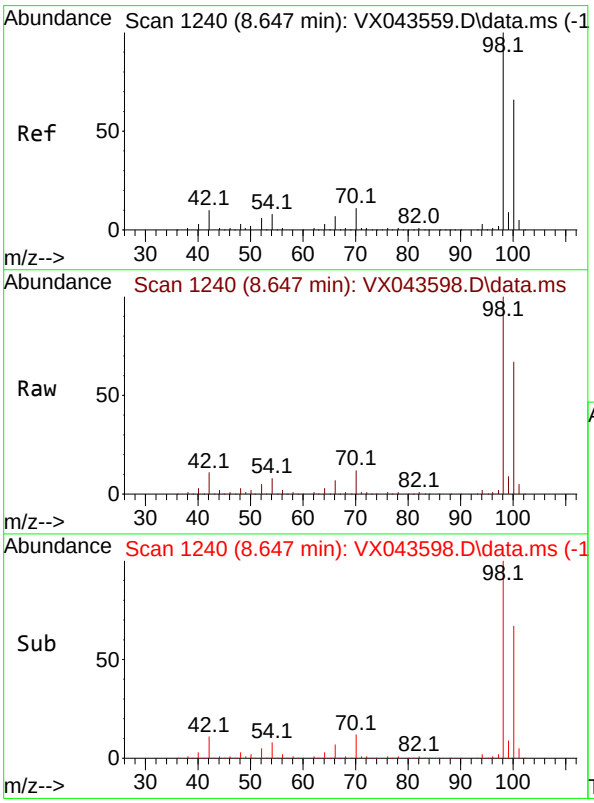
#35
Dibromofluoromethane
Concen: 45.989 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Tgt Ion:113 Resp: 90041

Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.4	122.0
192	18.4	14.1	21.1

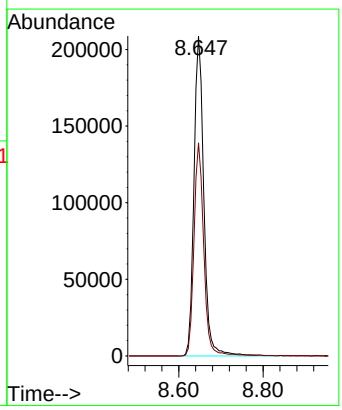


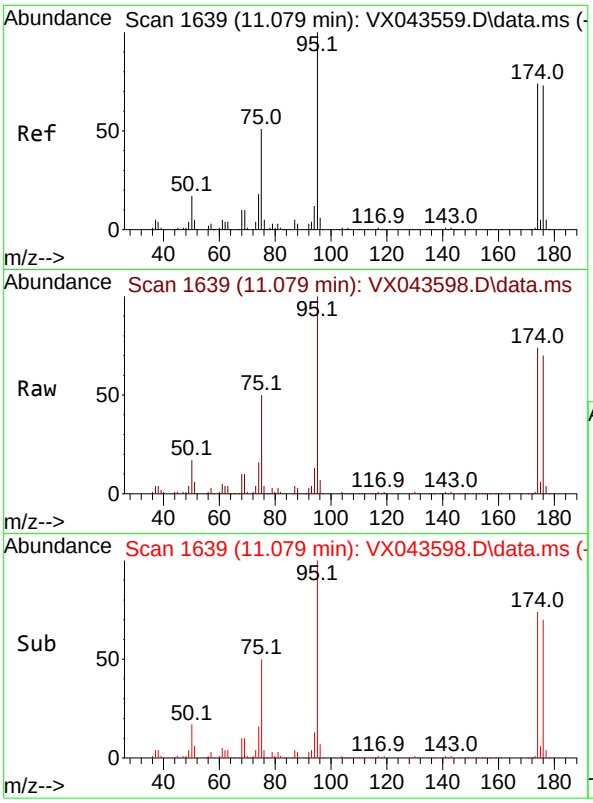


#50
Toluene-d8
Concen: 50.236 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

Tgt Ion: 98 Resp: 340477

Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.4	80.2



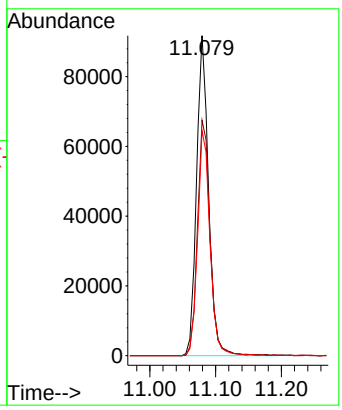


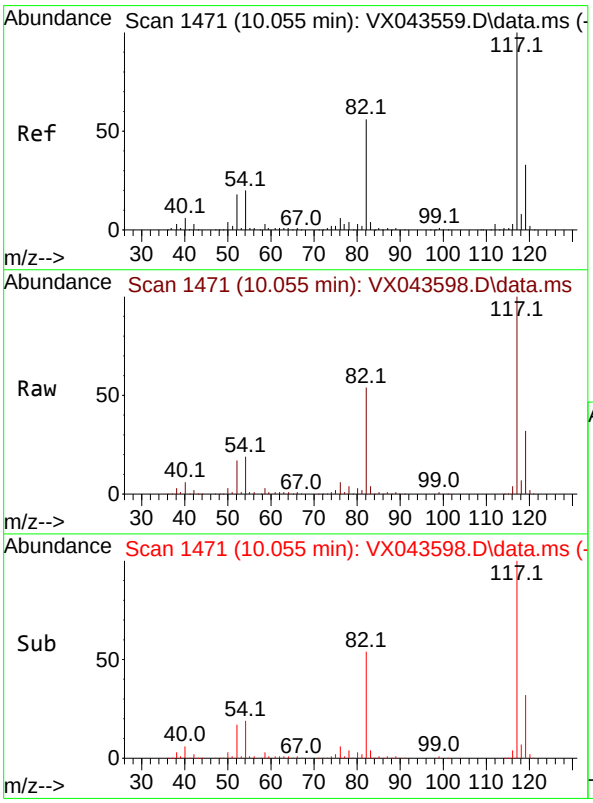
#62
4-Bromofluorobenzene
Concen: 46.536 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Tgt Ion: 95 Resp: 116872

Ion	Ratio	Lower	Upper
95	100		
174	76.9	0.0	146.6
176	72.3	0.0	139.6

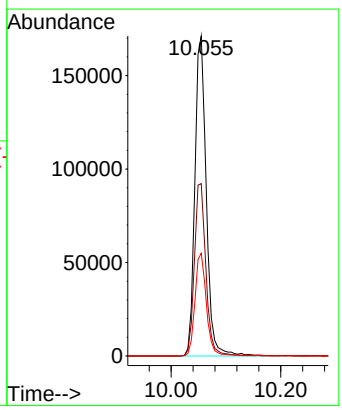


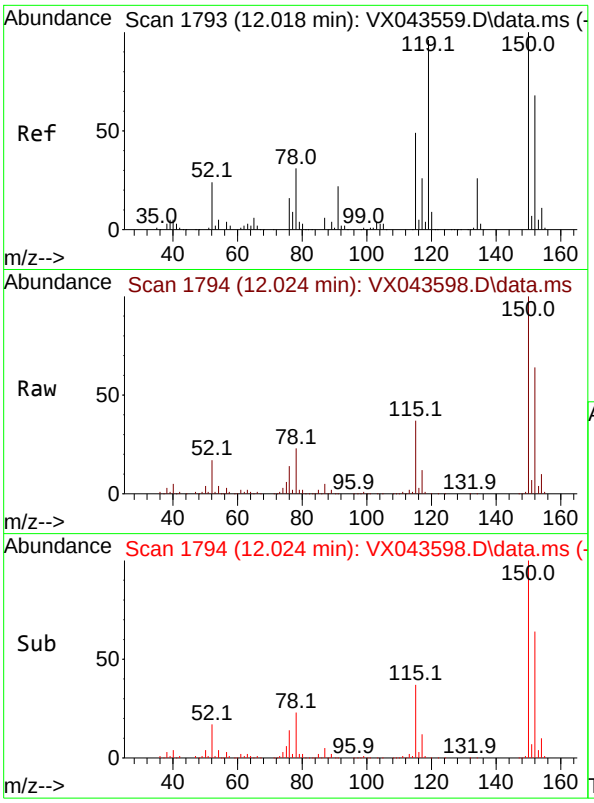


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

Tgt Ion:117 Resp: 248859

Ion	Ratio	Lower	Upper
117	100		
82	53.9	42.1	63.1
119	32.1	25.4	38.2



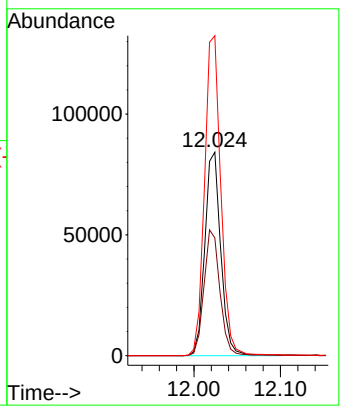


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Tgt Ion:152 Resp: 107787

Ion	Ratio	Lower	Upper
152	100		
115	62.0	42.9	128.7
150	160.6	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043598.D
Acq On : 29 Oct 2024 15:38
Operator : JC/MD
Sample : P4578-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Title : SW846 8260

Signal : TIC: VX043598.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.246	22	26	32	rBV2	10366	17874	2.02%	0.390%
2	1.587	71	82	85	rBV5	8661	27255	3.07%	0.595%
3	5.379	694	704	720	rBV	99125	294696	33.25%	6.436%
4	5.544	721	731	749	rBV	159006	464543	52.41%	10.145%
5	5.952	789	798	816	rBV	113733	303110	34.20%	6.620%
6	6.757	920	930	952	rBV	259949	650873	73.43%	14.215%
7	8.647	1233	1240	1267	rBV	541601	886346	100.00%	19.357%
8	10.055	1465	1471	1484	rBV	499121	741388	83.65%	16.191%
9	11.079	1634	1639	1652	rBV	423606	543022	61.27%	11.859%
10	12.018	1788	1793	1804	rBV	497447	649800	73.31%	14.191%

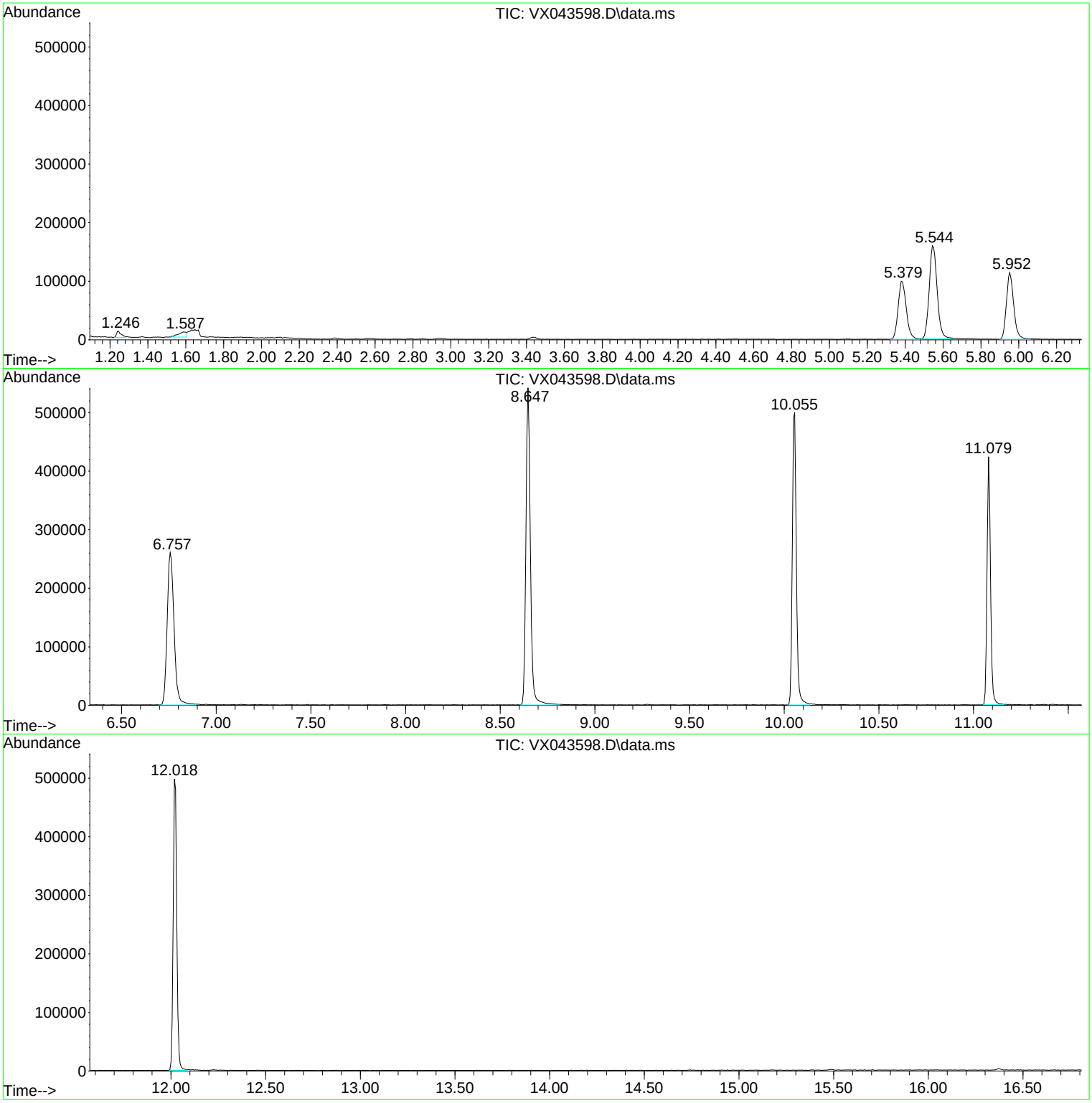
Sum of corrected areas: 4578907

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043598.D
Acq On : 29 Oct 2024 15:38
Operator : JC/MD
Sample : P4578-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043598.D
Acq On : 29 Oct 2024 15:38
Operator : JC/MD
Sample : P4578-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043598.D
Acq On : 29 Oct 2024 15:38
Operator : JC/MD
Sample : P4578-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Time: Oct 29 03:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

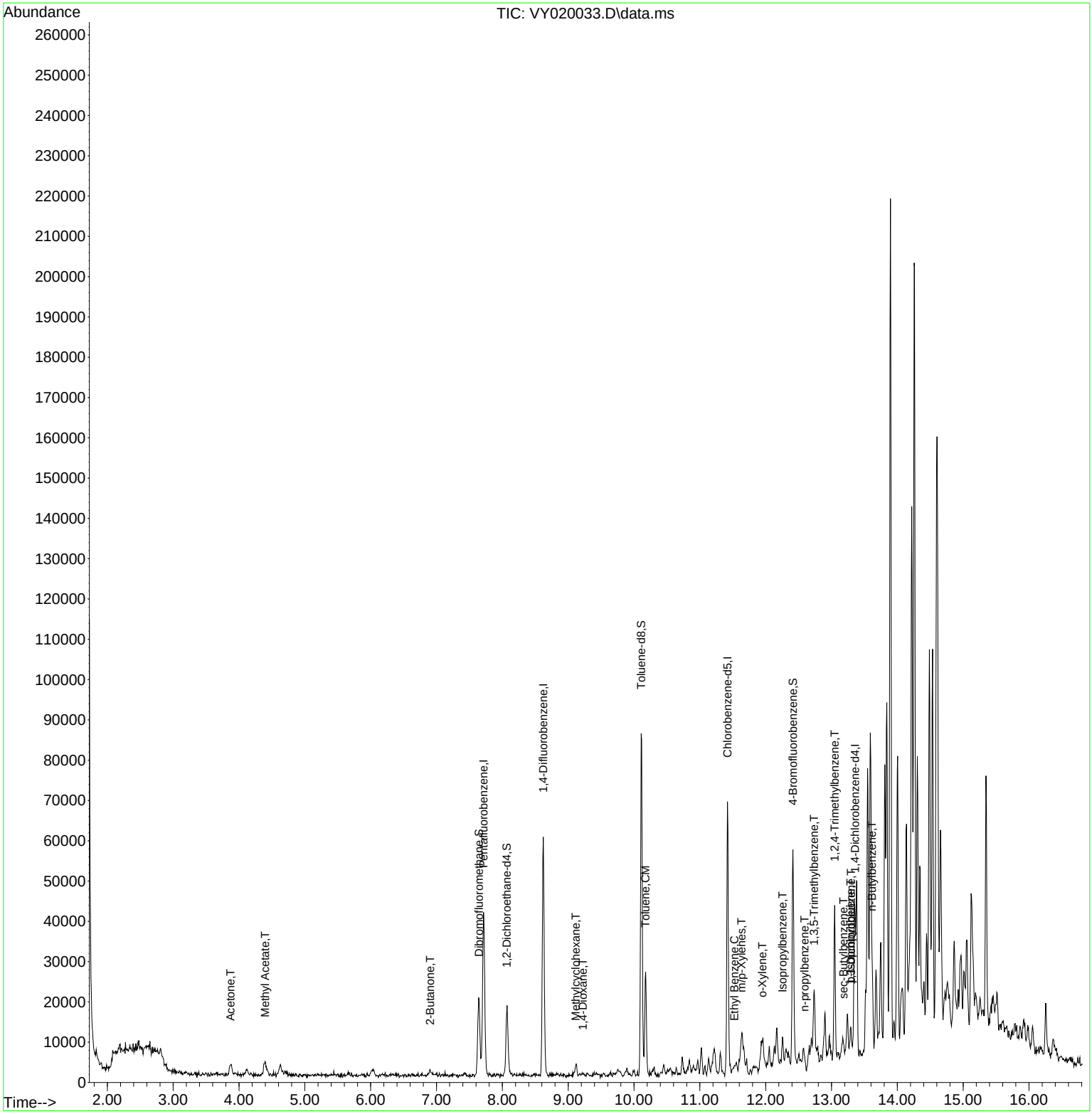
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	27473	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.622	114	45281	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	32489	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.359	152	8668	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	13554	40.068	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	80.140%		
35) Dibromofluoromethane	7.646	113	13741	45.987	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	91.980%		
50) Toluene-d8	10.109	98	51954	47.083	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	94.160%		
62) 4-Bromofluorobenzene	12.414	95	11497	28.836	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	57.680%		
Target Compounds						Qvalue
16) Acetone	3.873	43	4573	51.932	ug/l #	85
18) Methyl Acetate	4.397	43	6622	34.909	ug/l #	82
25) 2-Butanone	6.902	43	1407	11.937	ug/l	96
39) Methylcyclohexane	9.115	83	802	1.479	ug/l #	58
49) 1,4-Dioxane	9.225	88	253	126.879	ug/l #	85
52) Toluene	10.176	92	10672	13.123	ug/l	90
67) Ethyl Benzene	11.524	91	1351	1.001	ug/l	92
68) m/p-Xylenes	11.633	106	1668	3.346	ug/l	83
69) o-Xylene	11.950	106	1659	3.463	ug/l	92
73) Isopropylbenzene	12.255	105	3314	4.545	ug/l	92
78) n-propylbenzene	12.590	91	1513	1.717	ug/l	93
80) 1,3,5-Trimethylbenzene	12.737	105	3600	6.114	ug/l	83
84) 1,2,4-Trimethylbenzene	13.048	105	17995	30.825	ug/l	95
85) sec-Butylbenzene	13.182	105	2214	2.809	ug/l	93
86) p-Isopropyltoluene	13.292	119	2324	3.631	ug/l	88
87) 1,3-Dichlorobenzene	13.298	146	424	1.357	ug/l #	5
89) n-Butylbenzene	13.615	91	9756	15.612	ug/l #	79

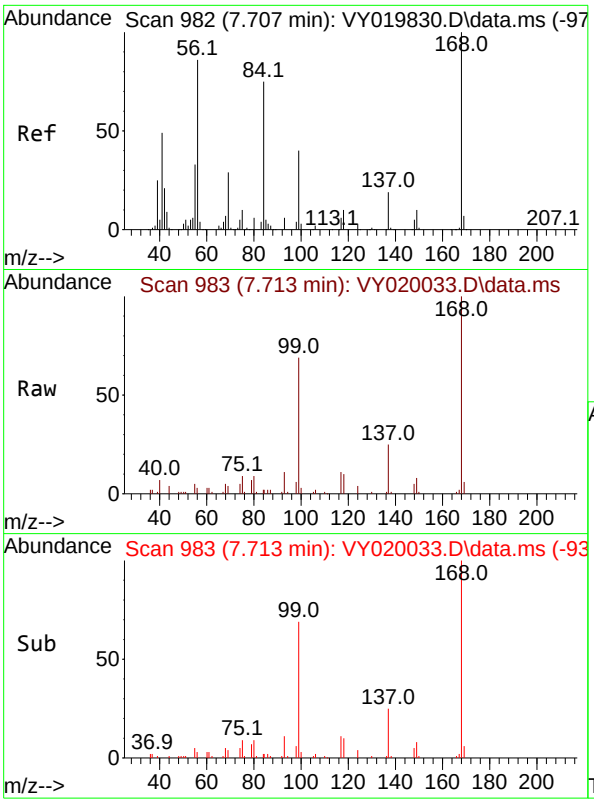
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Time: Oct 29 03:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



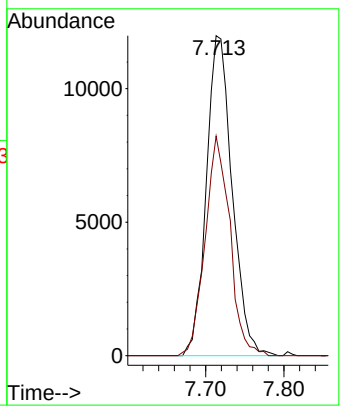


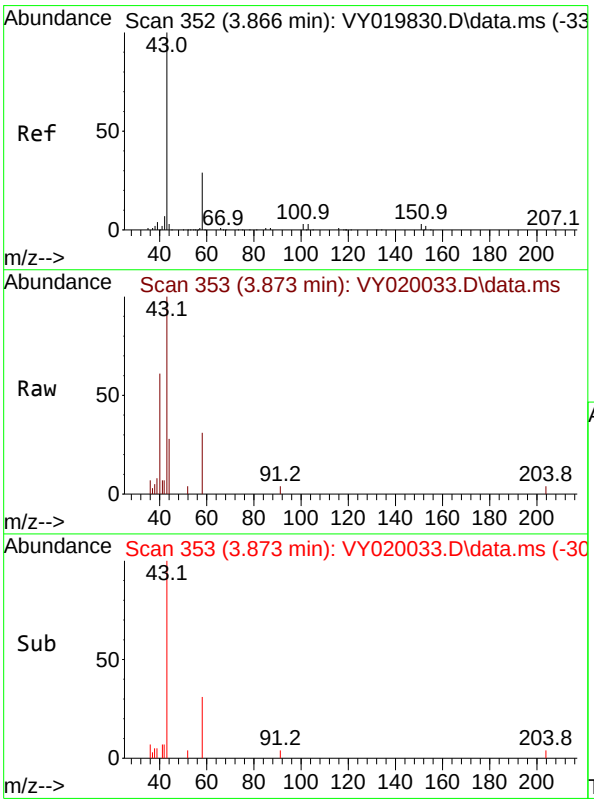
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Tgt Ion:168 Resp: 27473

Ion	Ratio	Lower	Upper
168	100		
99	68.6	39.1	58.7#

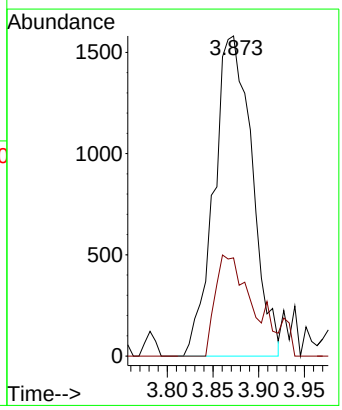


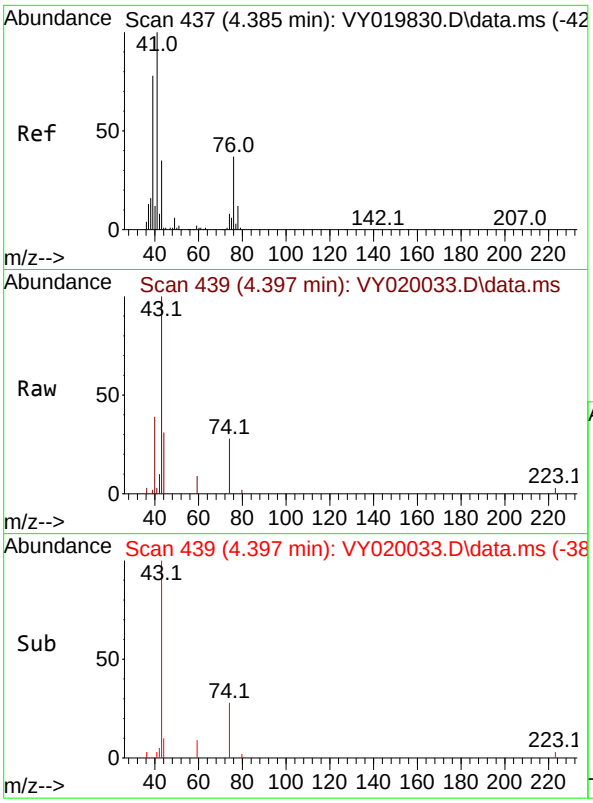


#16
Acetone
Concen: 51.932 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion: 43 Resp: 4573

Ion	Ratio	Lower	Upper
43	100		
58	30.7	31.7	47.5#



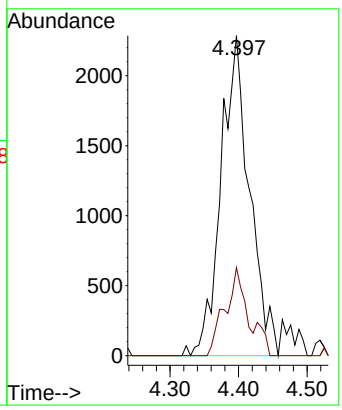


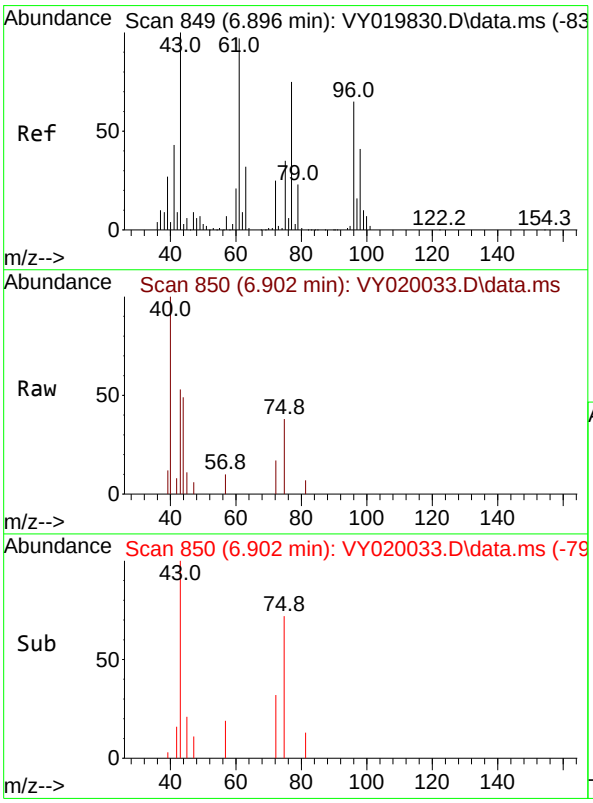
#18
Methyl Acetate
Concen: 34.909 ug/l
RT: 4.397 min Scan# 4
Delta R.T. 0.013 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Tgt Ion: 43 Resp: 6622

Ion	Ratio	Lower	Upper
43	100		
74	19.5	23.3	34.9#

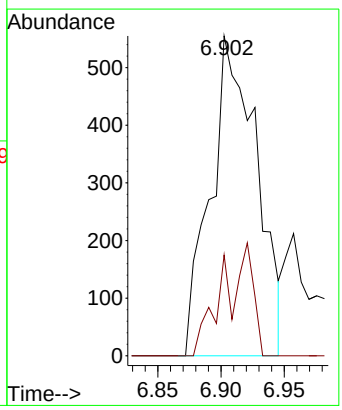


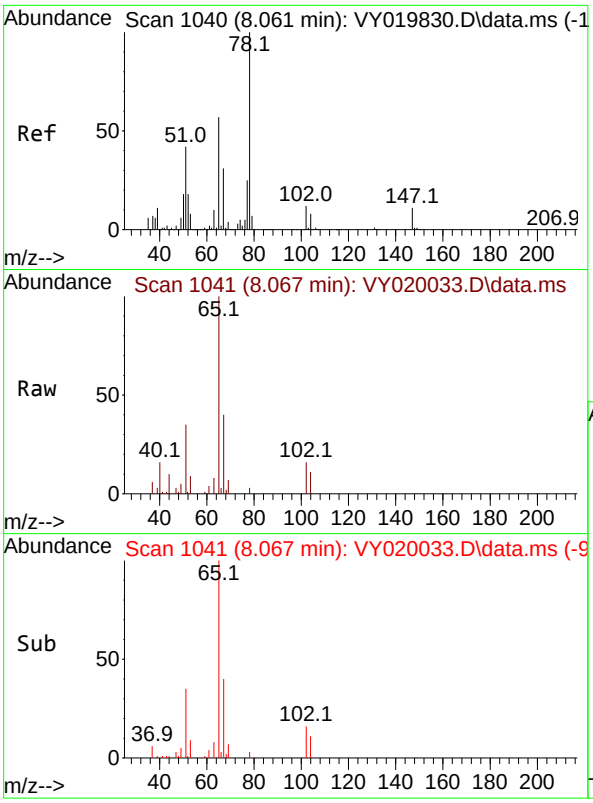


#25
2-Butanone
Concen: 11.937 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.012 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion: 43 Resp: 1407

Ion	Ratio	Lower	Upper
43	100		
72	31.5	27.3	40.9



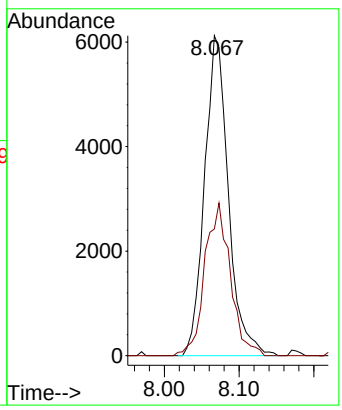


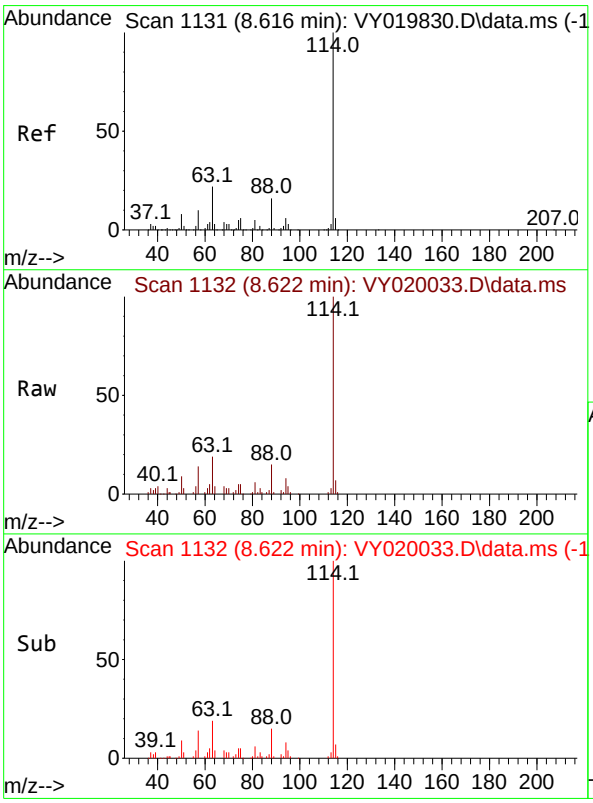
#33
1,2-Dichloroethane-d4
Concen: 40.068 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Tgt Ion: 65 Resp: 13554

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	109.6

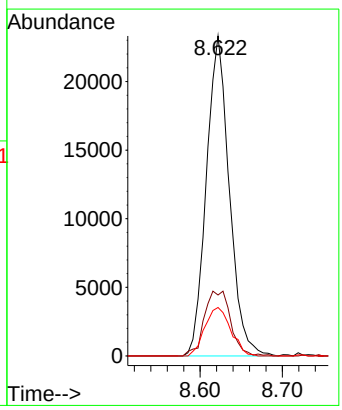




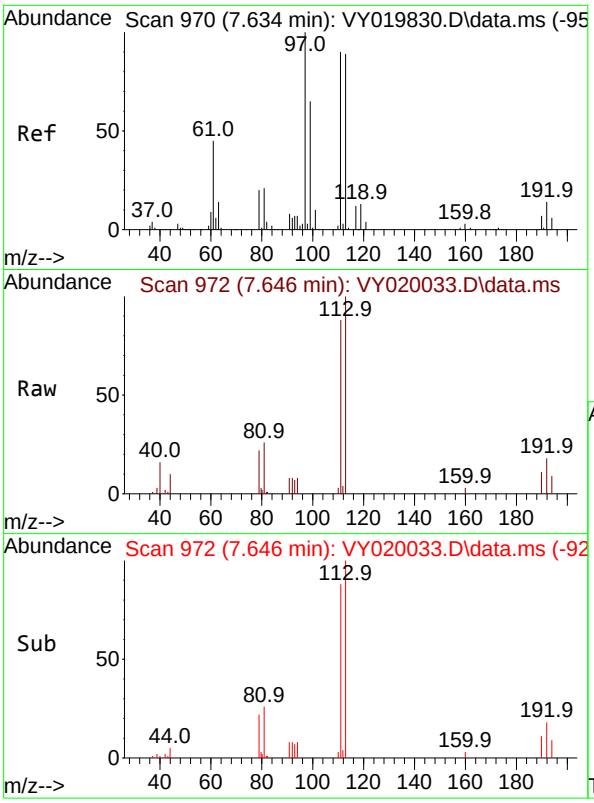
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion:114 Resp: 45281

Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	35.0
88	15.1	0.0	27.2



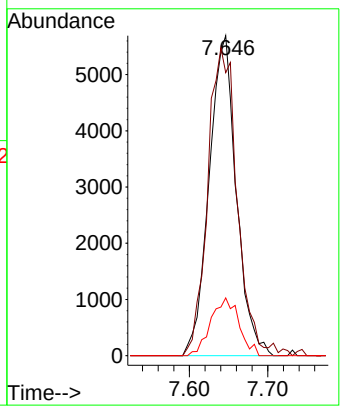
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

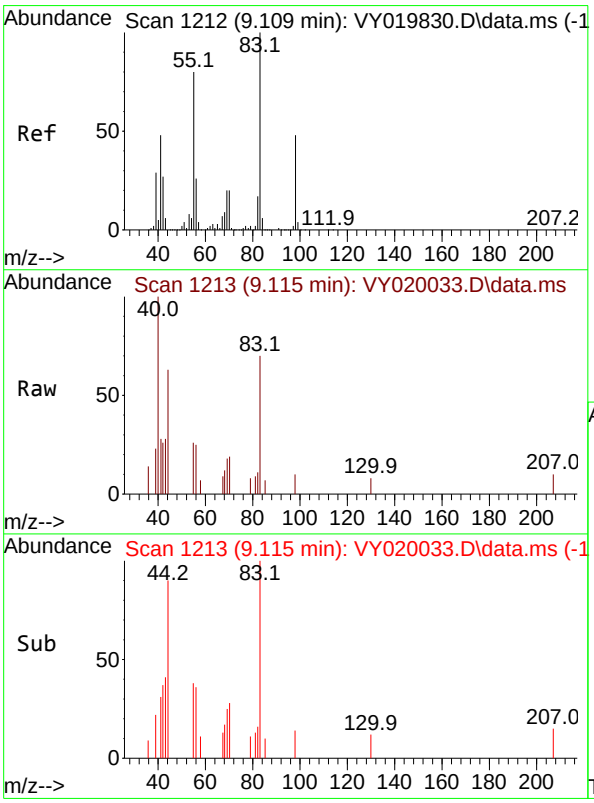


#35
Dibromofluoromethane
Concen: 45.987 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion:113 Resp: 13741

Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.2	123.4
192	18.6	15.9	23.9

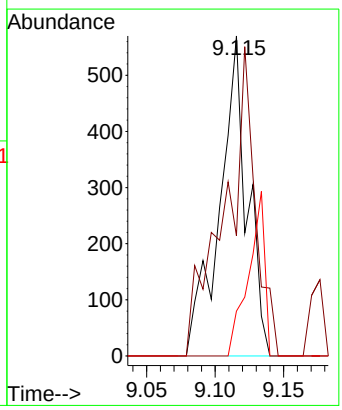


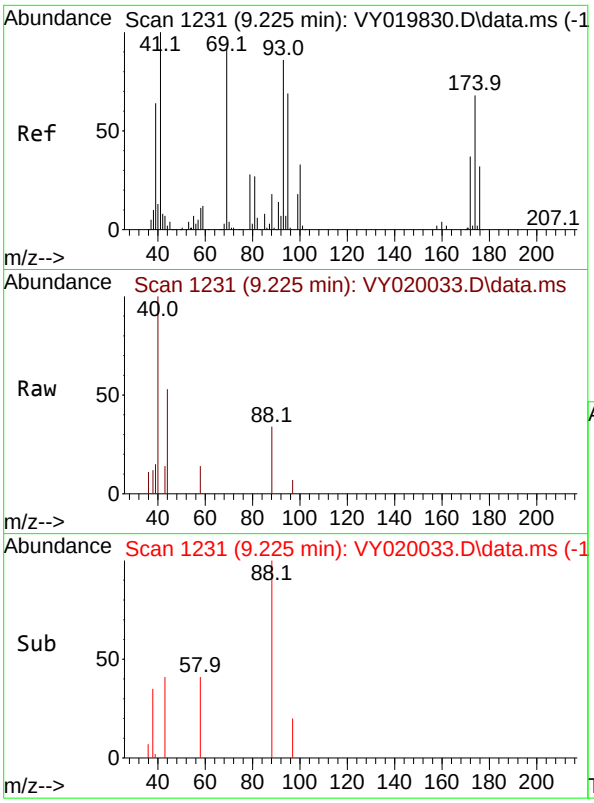


#39
Methylcyclohexane
Concen: 1.479 ug/l
RT: 9.115 min Scan# 1213
Delta R.T. 0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion: 83 Resp: 802

Ion	Ratio	Lower	Upper
83	100		
55	37.5	51.5	77.3#
98	14.0	40.5	60.7#



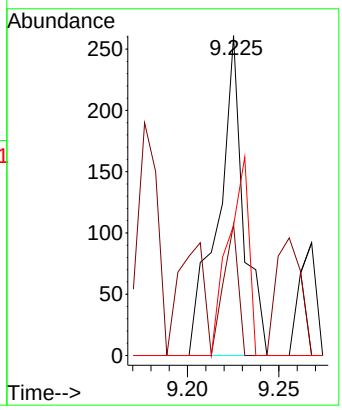


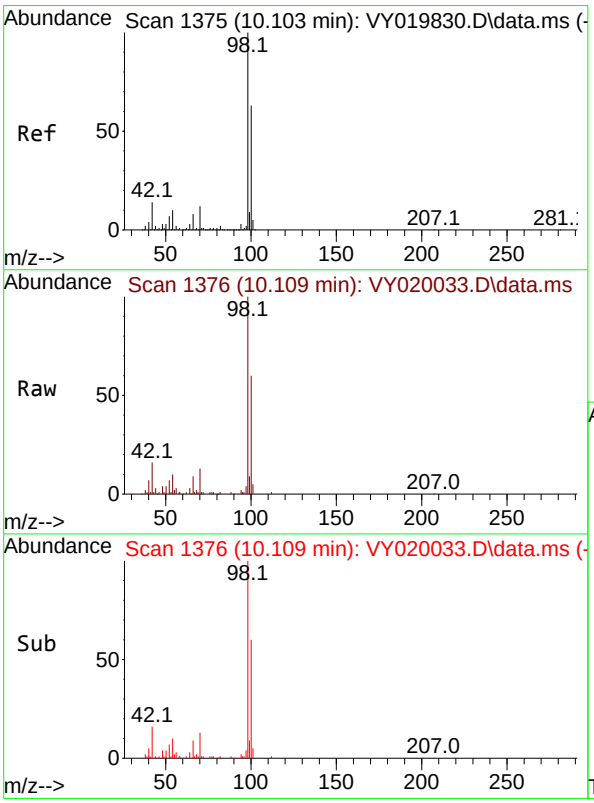
#49
1,4-Dioxane
Concen: 126.879 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Tgt Ion: 88 Resp: 253

Ion	Ratio	Lower	Upper
88	100		
43	23.7	0.0	0.0#
58	50.2	49.3	73.9

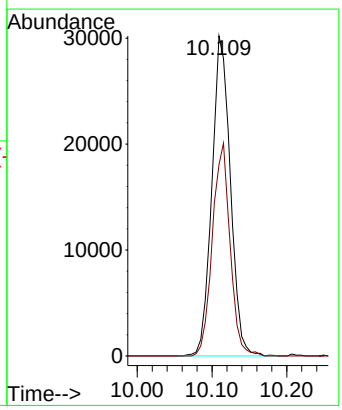


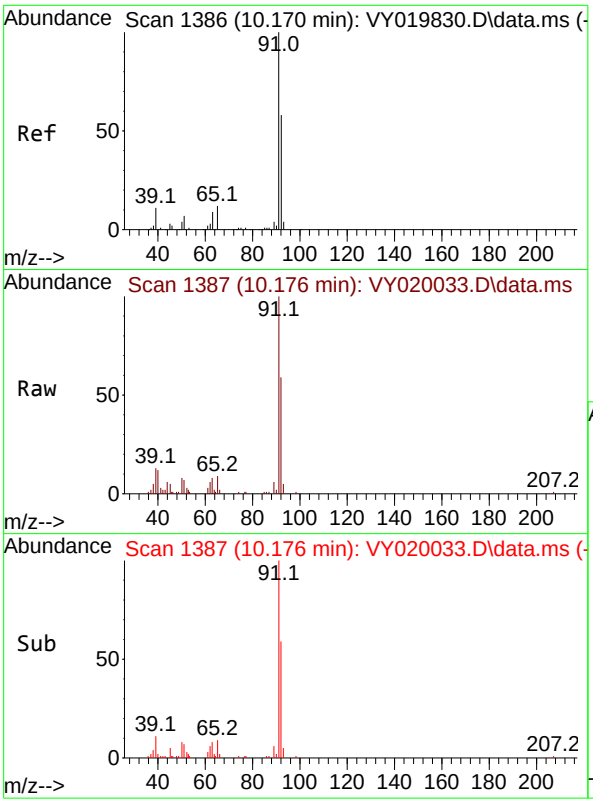


#50
Toluene-d8
Concen: 47.083 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion: 98 Resp: 51954

Ion	Ratio	Lower	Upper
98	100		
100	63.6	52.0	78.0



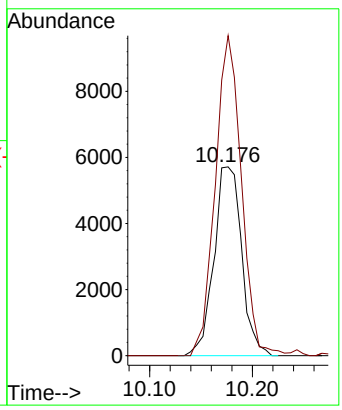


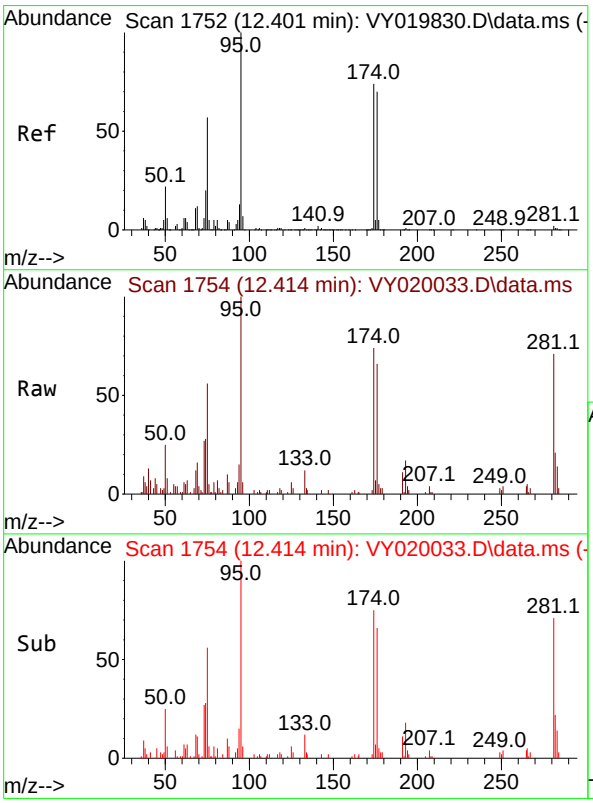
#52
Toluene
Concen: 13.123 ug/l
RT: 10.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Tgt Ion: 92 Resp: 10672

Ion	Ratio	Lower	Upper
92	100		
91	160.3	139.0	208.6

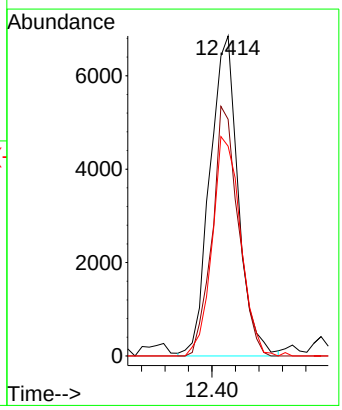


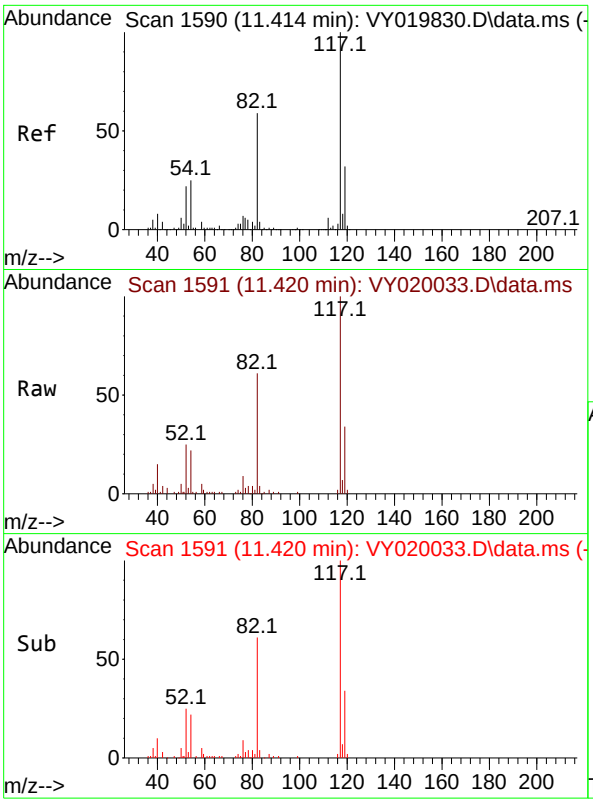


#62
4-Bromofluorobenzene
Concen: 28.836 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion: 95 Resp: 11497

Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	175.6
176	68.6	0.0	171.4



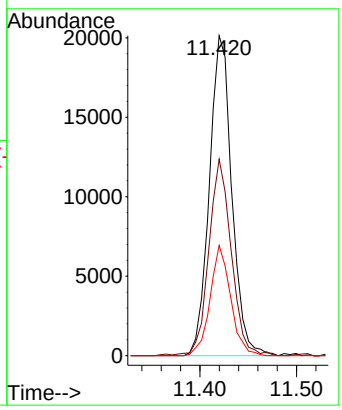


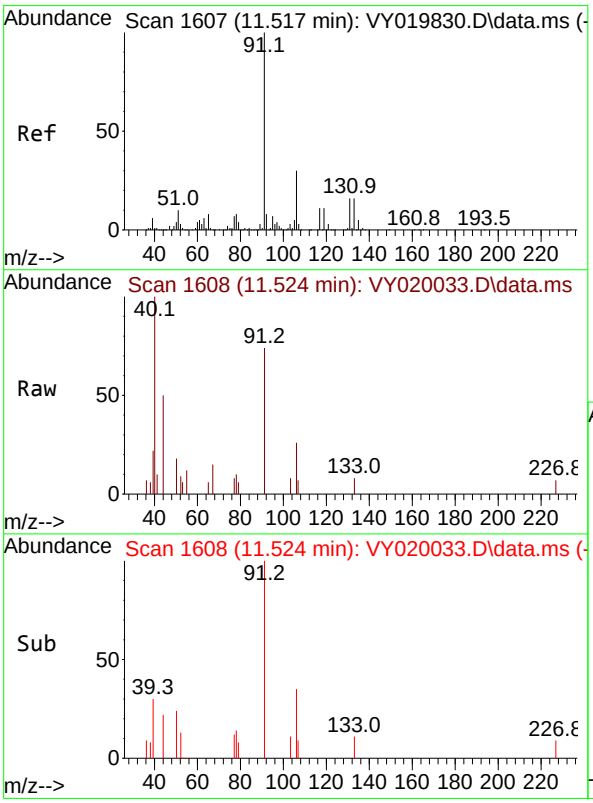
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Tgt Ion:117 Resp: 32489

Ion	Ratio	Lower	Upper
117	100		
82	61.4	42.4	63.6
119	34.5	25.9	38.9

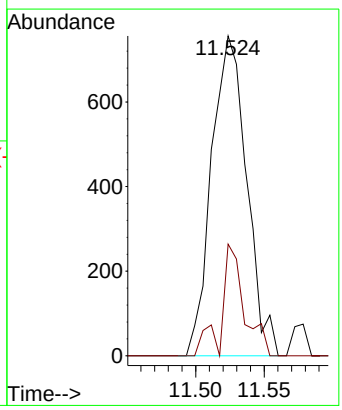




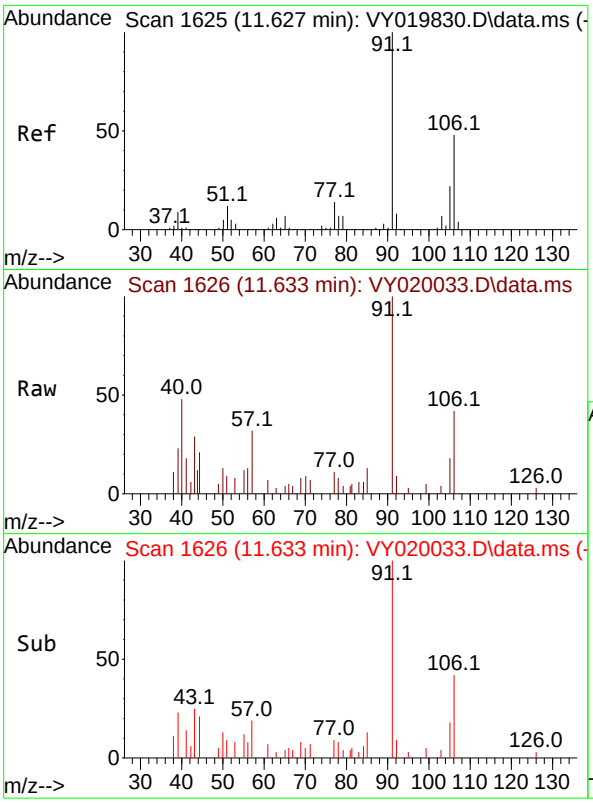
#67
Ethyl Benzene
Concen: 1.001 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion: 91 Resp: 1351

Ion	Ratio	Lower	Upper
91	100		
106	34.9	24.5	36.7



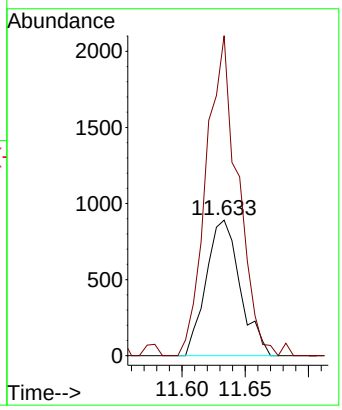
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

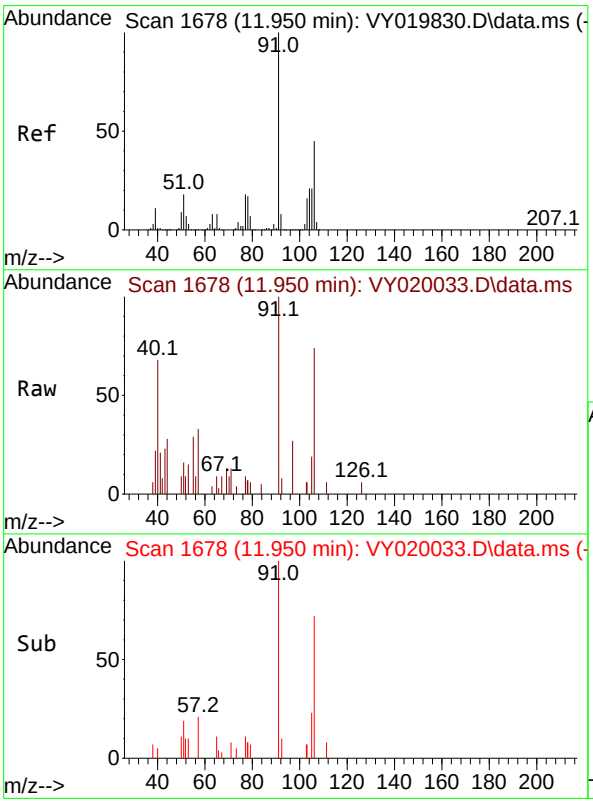


#68
m/p-Xylenes
Concen: 3.346 ug/l
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion:106 Resp: 1668

Ion	Ratio	Lower	Upper
106	100		
91	219.9	156.0	234.0

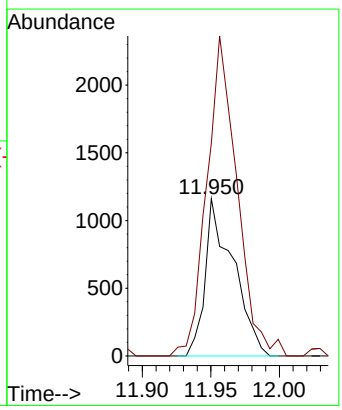


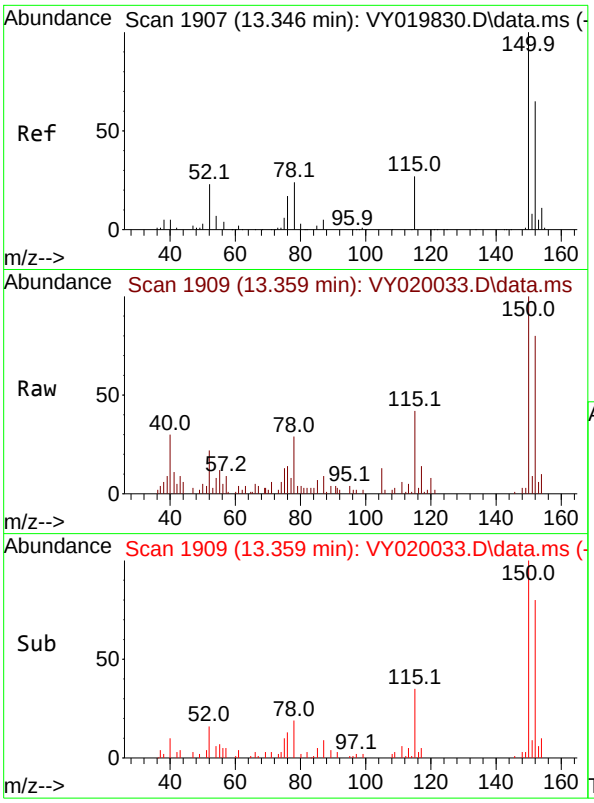


#69
o-Xylene
Concen: 3.463 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion:106 Resp: 1659

Ion	Ratio	Lower	Upper
106	100		
91	218.9	103.6	310.8



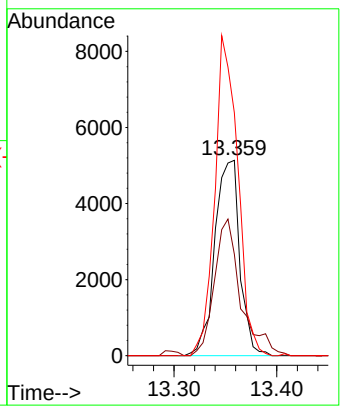


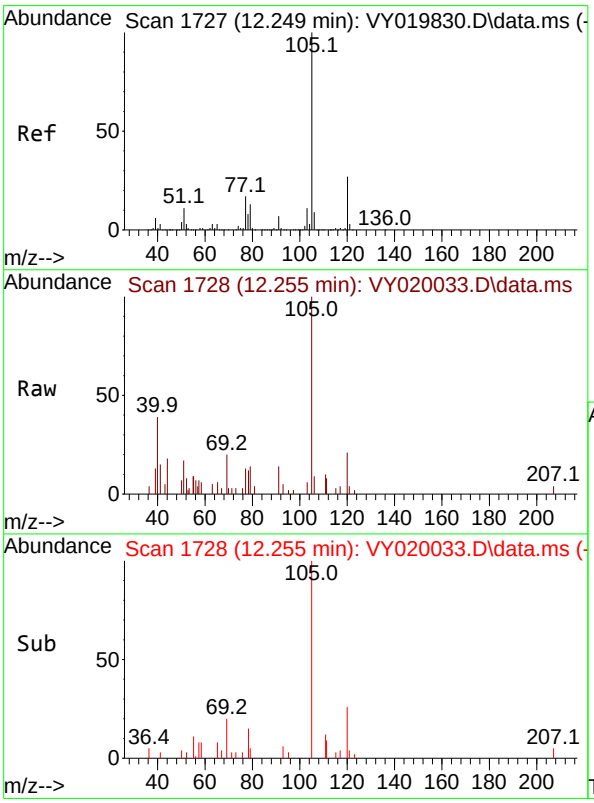
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Tgt Ion:152 Resp: 8668

Ion	Ratio	Lower	Upper
152	100		
115	74.1	28.2	84.7
150	150.9	0.0	345.6

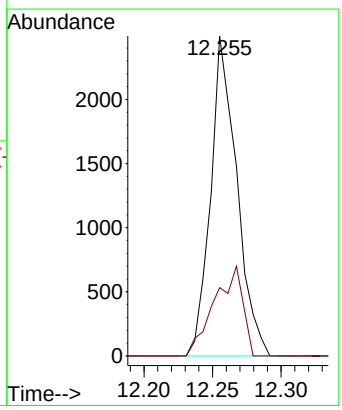


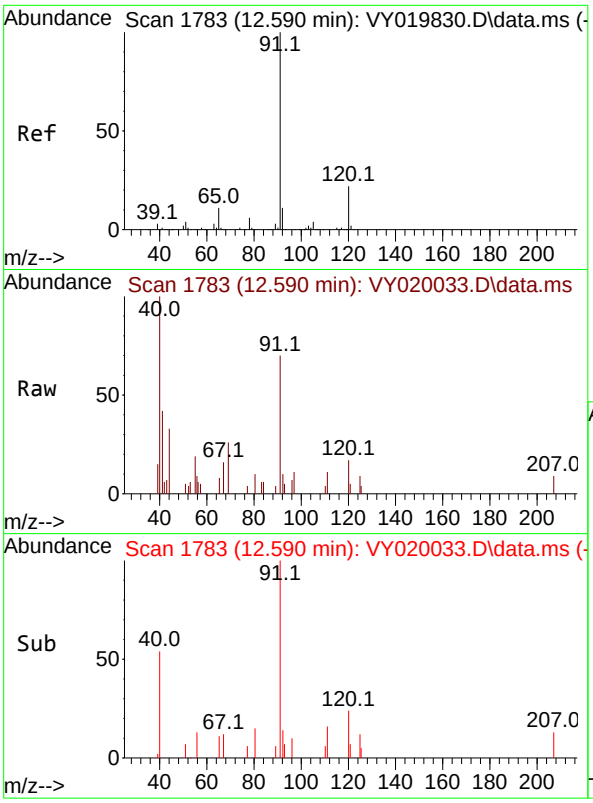


#73
Isopropylbenzene
Concen: 4.545 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion:105 Resp: 3314

Ion	Ratio	Lower	Upper
105	100		
120	30.7	13.4	40.1



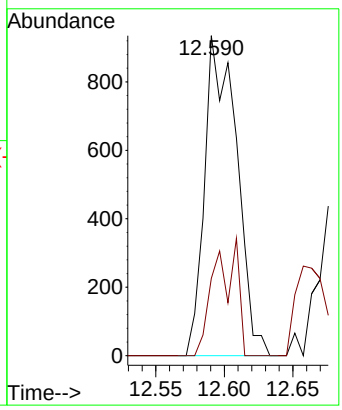


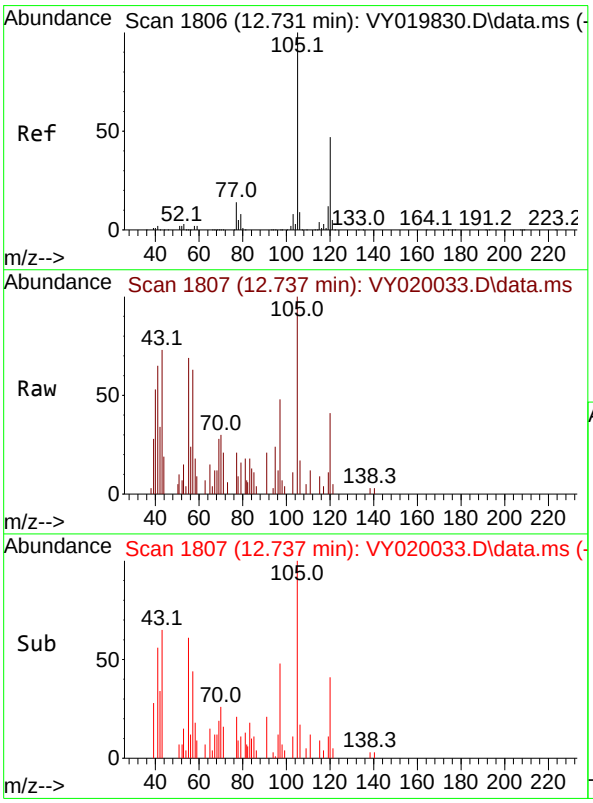
#78
n-propylbenzene
Concen: 1.717 ug/l
RT: 12.590 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Tgt Ion: 91 Resp: 1513

Ion	Ratio	Lower	Upper
91	100		
120	26.4	11.5	34.4

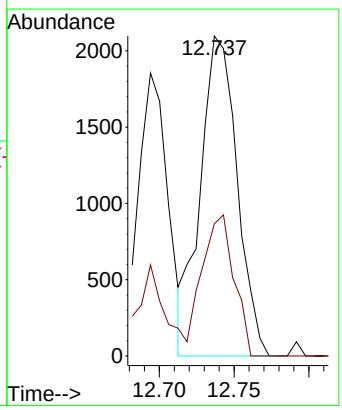


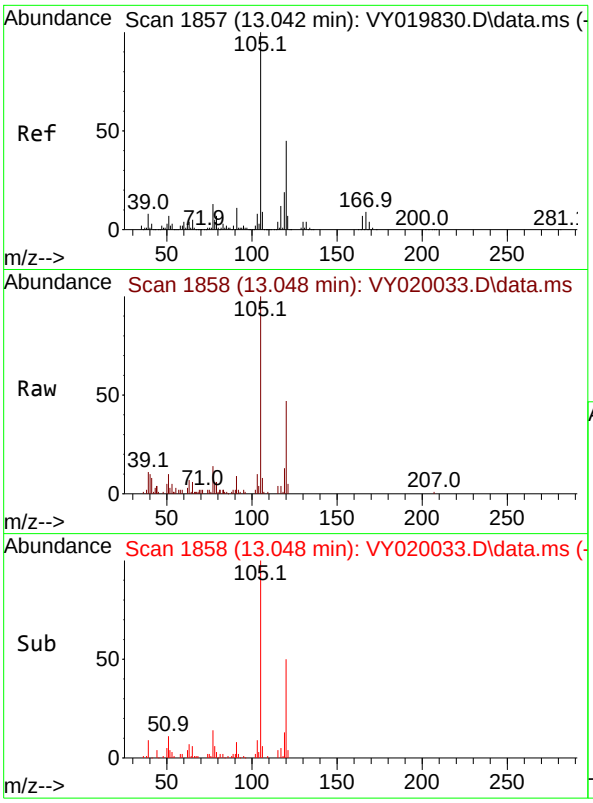


#80
1,3,5-Trimethylbenzene
Concen: 6.114 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion:105 Resp: 3600

Ion	Ratio	Lower	Upper
105	100		
120	38.1	25.1	75.2



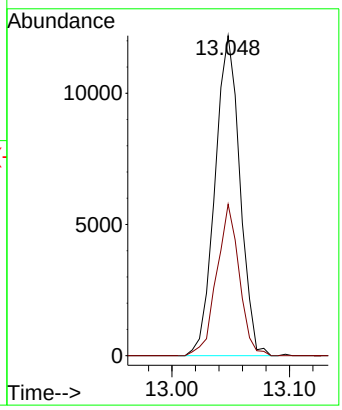


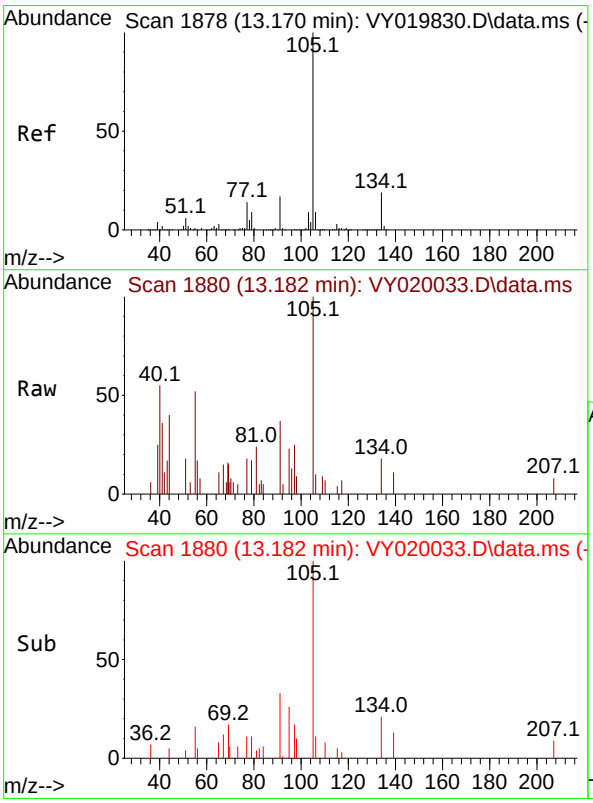
#84
1,2,4-Trimethylbenzene
Concen: 30.825 ug/l
RT: 13.048 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Tgt Ion:105 Resp: 17995

Ion	Ratio	Lower	Upper
105	100		
120	42.9	23.2	69.6

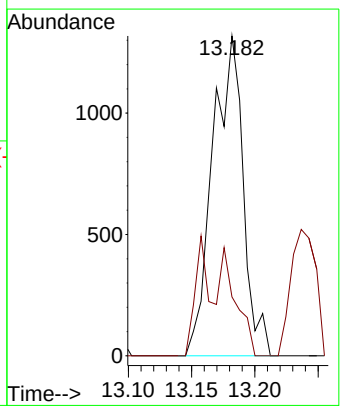


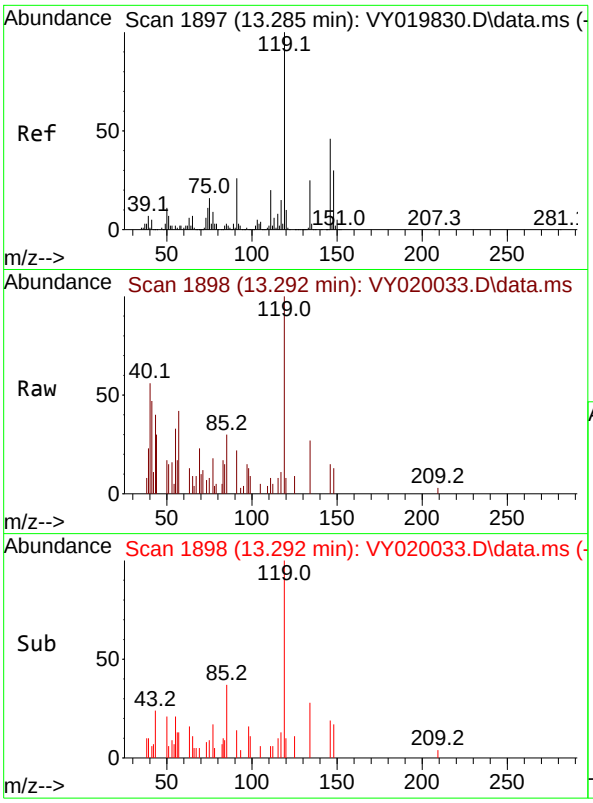


#85
sec-Butylbenzene
Concen: 2.809 ug/l
RT: 13.182 min Scan# 1880
Delta R.T. 0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion:105 Resp: 2214

Ion	Ratio	Lower	Upper
105	100		
134	17.1	10.1	30.1



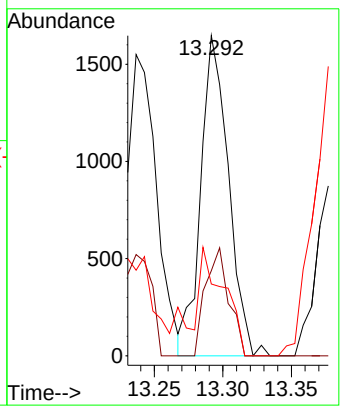


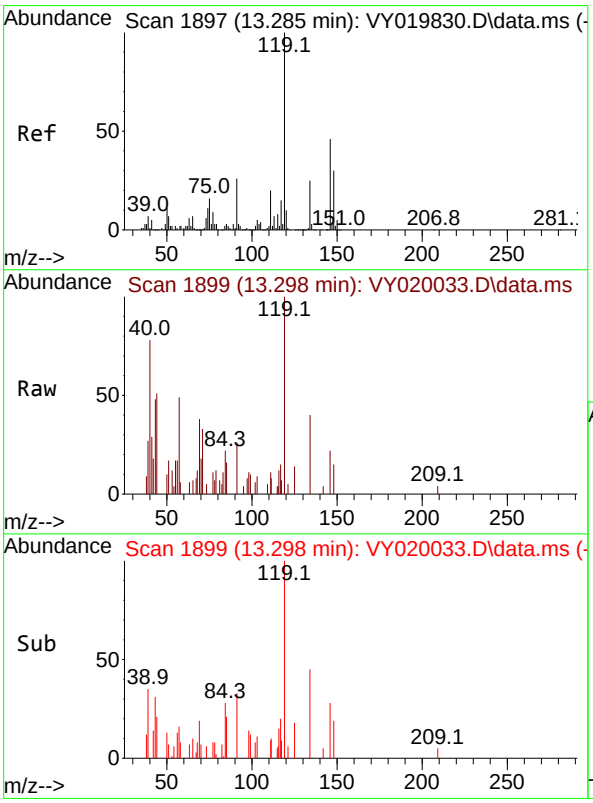
#86
p-Isopropyltoluene
Concen: 3.631 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Tgt Ion:119 Resp: 2324

Ion	Ratio	Lower	Upper
119	100		
134	28.4	13.1	39.3
91	31.4	10.7	32.1

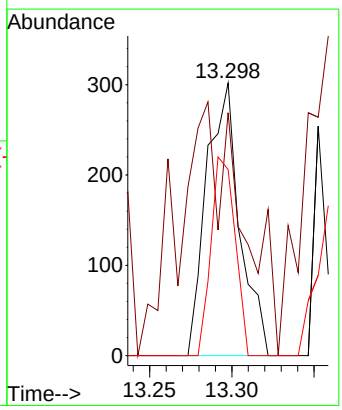


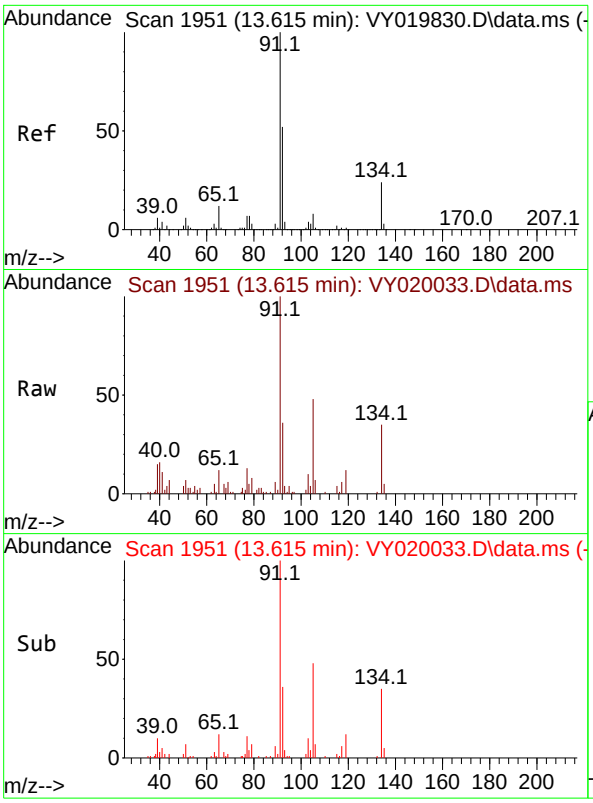


#87
1,3-Dichlorobenzene
Concen: 1.357 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion:146 Resp: 424

Ion	Ratio	Lower	Upper
146	100		
111	176.7	19.0	57.0#
148	52.8	31.7	95.1



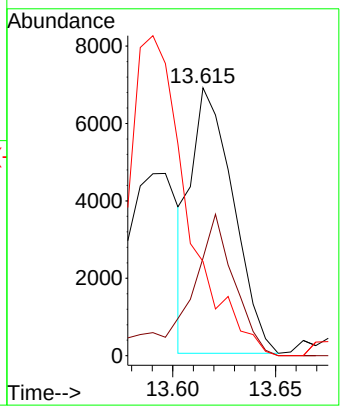


#89
n-Butylbenzene
Concen: 15.612 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Tgt Ion: 91 Resp: 9756

Ion	Ratio	Lower	Upper
91	100		
92	57.3	26.6	79.7
134	0.0	12.9	38.7#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

Signal : TIC: VY020033.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	58	59	63	rBV4	2426	3689	1.17%	0.090%
2	2.476	118	124	126	rBV4	2502	3344	1.06%	0.081%
3	2.586	135	142	143	rBV4	2079	4719	1.50%	0.115%
4	2.647	150	152	155	rVB4	3399	3152	1.00%	0.077%
5	4.110	388	392	400	rVB4	1403	3393	1.08%	0.083%
6	4.397	437	439	449	rVB3	3557	7744	2.46%	0.189%
7	4.628	471	477	481	rBV6	2221	4513	1.43%	0.110%
8	7.640	960	971	976	rBV2	19704	46816	14.88%	1.140%
9	7.713	977	983	995	rVB2	40678	96029	30.53%	2.339%
10	8.073	1032	1042	1051	rBV2	17535	40460	12.86%	0.986%
11	8.622	1125	1132	1143	rBV2	59337	119919	38.12%	2.921%
12	9.122	1210	1214	1218	rVB4	2928	5152	1.64%	0.125%
13	10.109	1369	1376	1383	rBV	84969	154882	49.23%	3.773%
14	10.176	1383	1387	1396	rVB	25834	45967	14.61%	1.120%
15	10.451	1428	1432	1437	rVB6	2382	4241	1.35%	0.103%
16	10.554	1443	1449	1453	rVB8	1768	4169	1.33%	0.102%
17	10.731	1474	1478	1484	rBV5	4217	6370	2.02%	0.155%
18	10.841	1493	1496	1500	rVB5	2875	4189	1.33%	0.102%
19	10.969	1513	1517	1521	rVB5	3371	5360	1.70%	0.131%
20	11.024	1521	1526	1531	rVB4	6646	10948	3.48%	0.267%
21	11.079	1531	1535	1539	rVB4	2381	3297	1.05%	0.080%
22	11.133	1539	1544	1549	rBV5	4210	8140	2.59%	0.198%
23	11.219	1551	1558	1564	rVB8	5719	14856	4.72%	0.362%
24	11.310	1567	1573	1577	rBV3	5237	8371	2.66%	0.204%
25	11.420	1584	1591	1601	rBV	68108	115897	36.84%	2.823%
26	11.639	1617	1627	1630	rBV7	9496	25693	8.17%	0.626%
27	11.713	1636	1639	1645	rVB6	3966	4936	1.57%	0.120%
28	11.932	1669	1675	1676	rBV5	7255	9984	3.17%	0.243%
29	12.054	1691	1695	1703	rVB7	4830	6675	2.12%	0.163%
30	12.133	1703	1708	1710	rBV4	4966	7585	2.41%	0.185%
31	12.170	1710	1714	1721	rVV6	9047	15750	5.01%	0.384%
32	12.255	1725	1728	1733	rVV4	6556	9846	3.13%	0.240%
33	12.310	1733	1737	1741	rVV7	3398	6941	2.21%	0.169%
34	12.347	1741	1743	1748	rVB3	2986	3756	1.19%	0.091%
35	12.414	1748	1754	1764	rBV3	53185	97177	30.89%	2.367%
36	12.505	1764	1769	1771	rBV6	2401	3188	1.01%	0.078%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

37	12.572	1777	1780	1788	rVB5	5643	12332	3.92%	0.300%
38	12.664	1788	1795	1796	rBV7	6356	10561	3.36%	0.257%
39	12.694	1796	1800	1802	rVV5	5030	7383	2.35%	0.180%
40	12.737	1802	1807	1813	rVB7	15378	29757	9.46%	0.725%
41	12.901	1827	1834	1838	rBV2	11905	22428	7.13%	0.546%
42	12.968	1842	1845	1848	rVV5	5688	7576	2.41%	0.185%
43	13.048	1852	1858	1864	rBV	38498	57828	18.38%	1.409%
44	13.170	1871	1878	1883	rBV	4940	10825	3.44%	0.264%
45	13.243	1885	1890	1894	rVV6	10678	19461	6.19%	0.474%
46	13.292	1894	1898	1902	rVV6	7251	13867	4.41%	0.338%
47	13.353	1902	1908	1910	rVV2	37946	67478	21.45%	1.644%
48	13.383	1910	1913	1919	rVB2	43581	62775	19.95%	1.529%
49	13.548	1931	1940	1944	rBV2	70262	136438	43.37%	3.324%
50	13.590	1944	1947	1956	rVB5	78411	149479	47.52%	3.641%
51	13.676	1956	1961	1965	rBV5	19614	32904	10.46%	0.802%
52	13.749	1969	1973	1978	rVV2	24634	37272	11.85%	0.908%
53	13.810	1978	1983	1985	rVV	68174	99767	31.71%	2.430%
54	13.840	1985	1988	1992	rVV	83117	117987	37.51%	2.874%
55	13.895	1992	1997	2003	rVB2	208244	314584	100.00%	7.663%
56	13.950	2003	2006	2009	rVB5	4409	5331	1.69%	0.130%
57	14.005	2009	2015	2020	rBV3	70244	112183	35.66%	2.733%
58	14.078	2020	2027	2031	rBV7	12585	33495	10.65%	0.816%
59	14.139	2031	2037	2041	rBV	52165	88858	28.25%	2.164%
60	14.218	2041	2050	2053	rVV	128018	232976	74.06%	5.675%
61	14.255	2053	2056	2061	rVV	187833	281603	89.52%	6.860%
62	14.304	2061	2064	2068	rVV2	64928	94943	30.18%	2.313%
63	14.340	2068	2070	2077	rVV2	37152	55549	17.66%	1.353%
64	14.401	2078	2080	2083	rVB3	8267	9275	2.95%	0.226%
65	14.444	2083	2087	2090	rBV3	20228	27058	8.60%	0.659%
66	14.486	2090	2094	2098	rVV	89523	135130	42.96%	3.292%
67	14.535	2098	2102	2106	rVB	91636	123528	39.27%	3.009%
68	14.602	2106	2113	2118	rBV3	144366	305033	96.96%	7.430%
69	14.657	2118	2122	2128	rVB4	47176	84601	26.89%	2.061%
70	14.724	2128	2133	2135	rBV6	7114	12805	4.07%	0.312%
71	14.864	2151	2156	2163	rBV3	19217	36633	11.64%	0.892%
72	14.925	2164	2166	2167	rVV2	6434	4665	1.48%	0.114%
73	14.968	2167	2173	2177	rVV6	14446	31077	9.88%	0.757%
74	15.011	2177	2180	2184	rVV5	9951	18681	5.94%	0.455%
75	15.053	2184	2187	2193	rVB5	21101	37779	12.01%	0.920%
76	15.121	2193	2198	2206	rBV3	32630	78428	24.93%	1.910%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

77	15.346	2231	2235	2242	rVB	62033	91934	29.22%	2.239%
78	15.425	2244	2248	2249	rBV4	4581	6016	1.91%	0.147%
79	15.791	2304	2308	2309	rBV4	2840	3654	1.16%	0.089%
80	15.864	2317	2320	2325	rVB7	3065	4818	1.53%	0.117%
81	15.919	2325	2329	2331	rBV5	4733	7894	2.51%	0.192%
82	15.980	2337	2339	2346	rVB6	5794	9587	3.05%	0.234%
83	16.053	2348	2351	2357	rVB7	6801	12892	4.10%	0.314%
84	16.254	2379	2384	2390	rBV	12702	21258	6.76%	0.518%
85	16.364	2399	2402	2405	rBV4	3727	6563	2.09%	0.160%
86	16.492	2416	2423	2427	rBV9	1180	3152	1.00%	0.077%

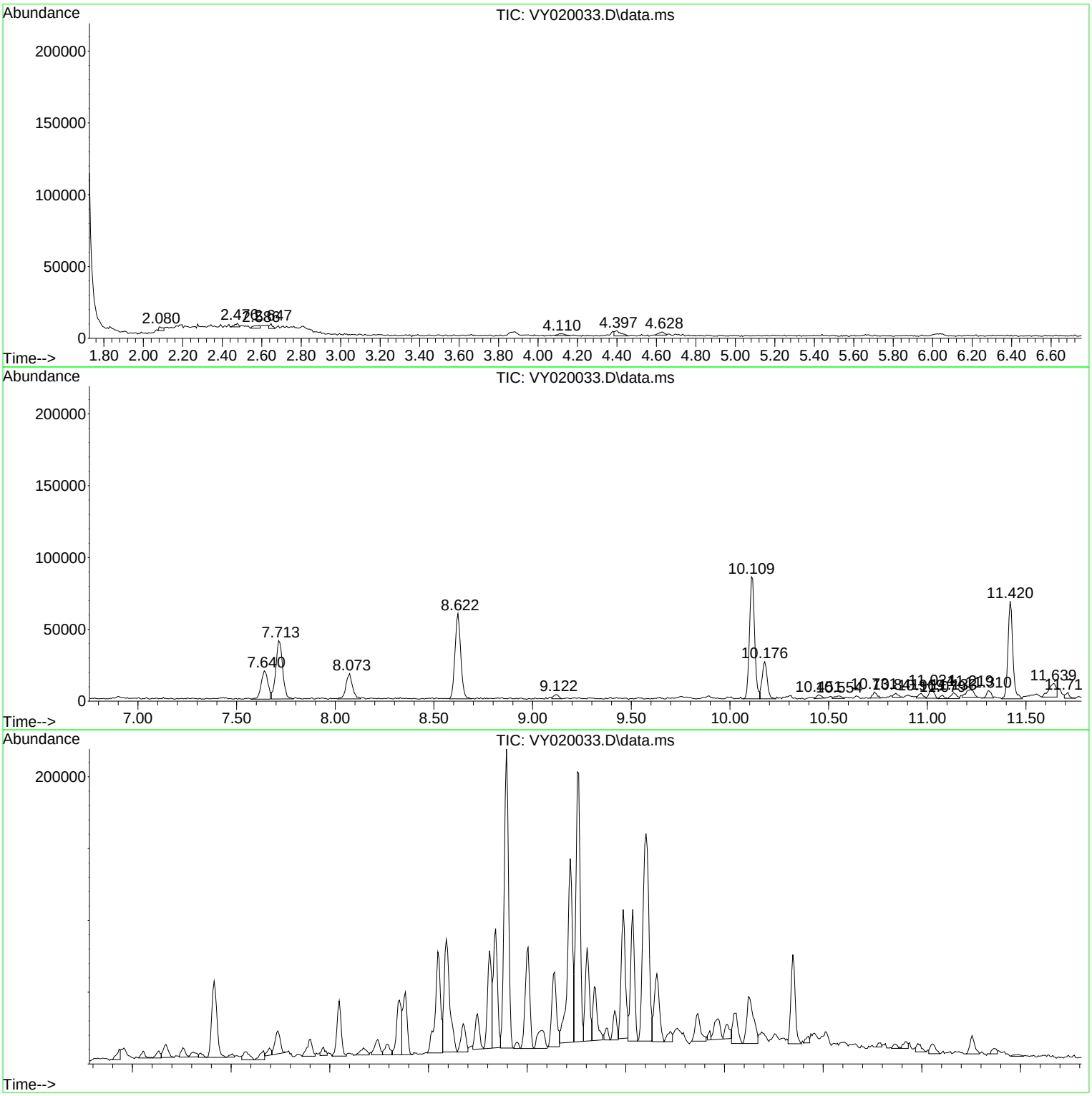
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On    : 28 Oct 2024  11:56
Operator  : SY/MD
Sample    : P4578-03
Misc      : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial  : 6   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title  : SW846 8260

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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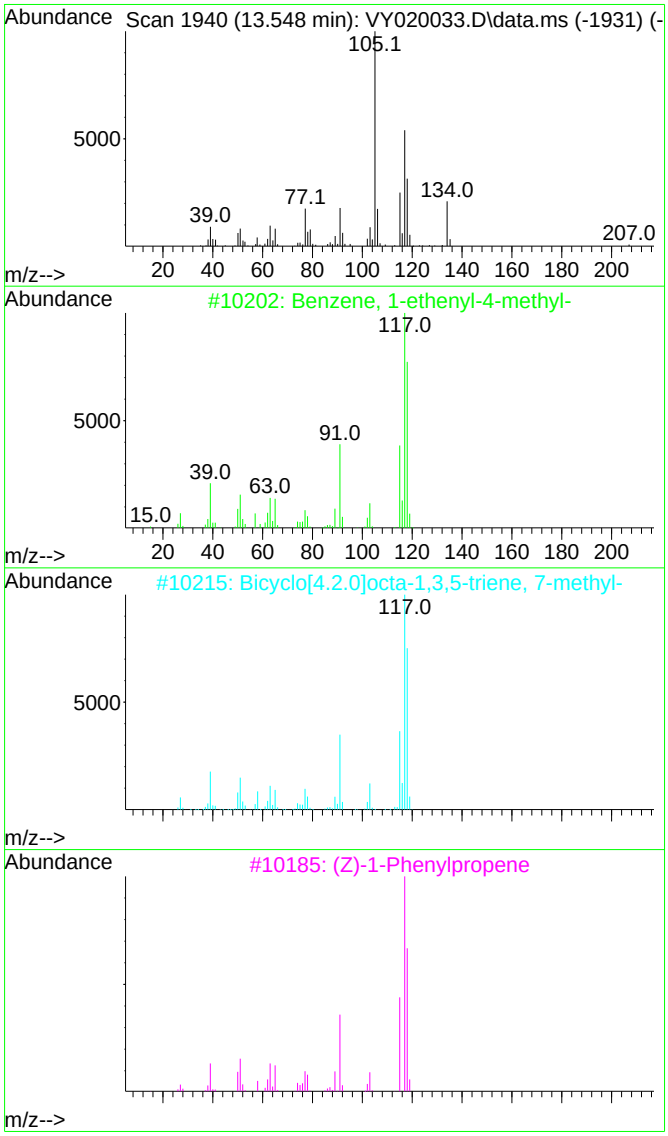
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ClientSampleId :
WB-305-TOP

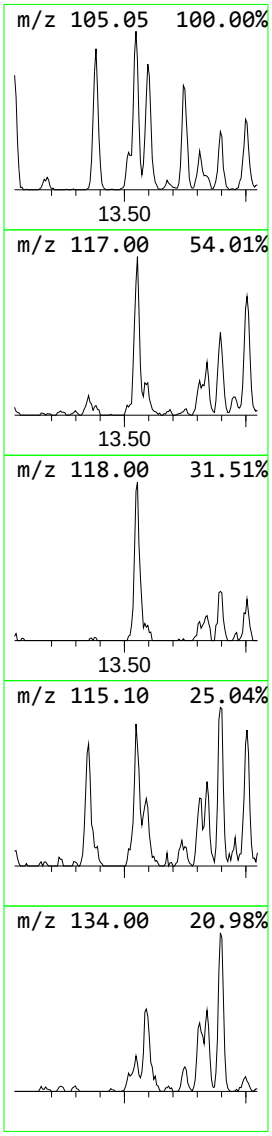
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Peak Number 1 Benzene, 1-ethenyl-4-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.548	101.10 ug/l	136438	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	86
2	Bicyclo[4.2.0]octa-1,3,5-triene,...	118	C9H10	055337-80-9	50
3	(Z)-1-Phenylpropene	118	C9H10	000766-90-5	50
4	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	50
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	45





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

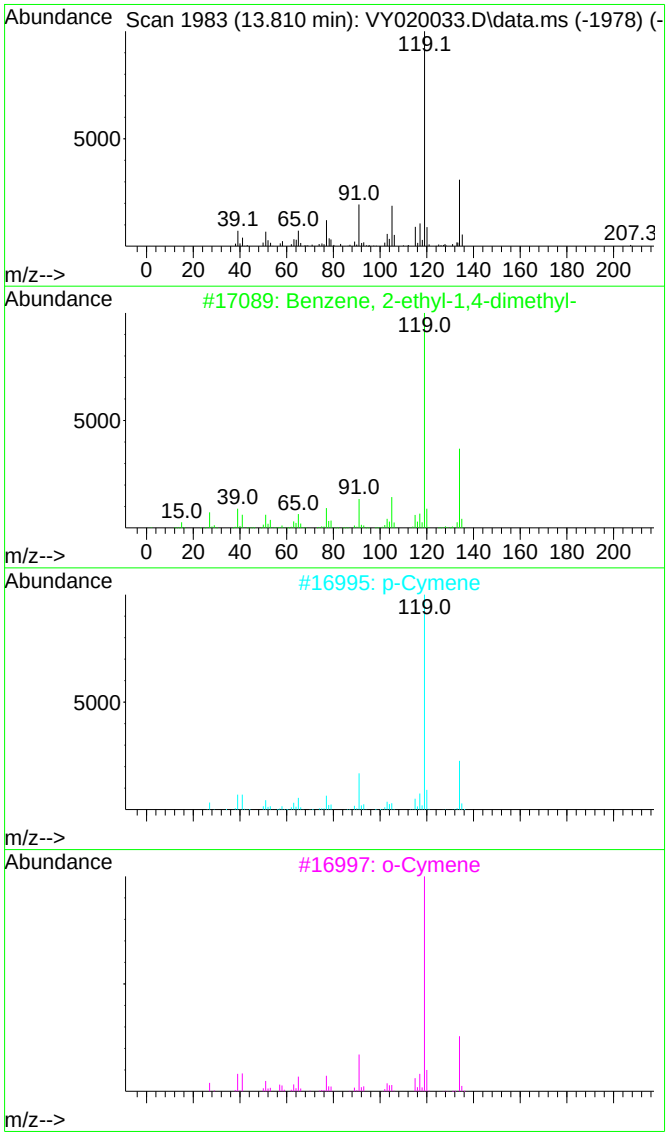
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Quant Title : SW846 8260

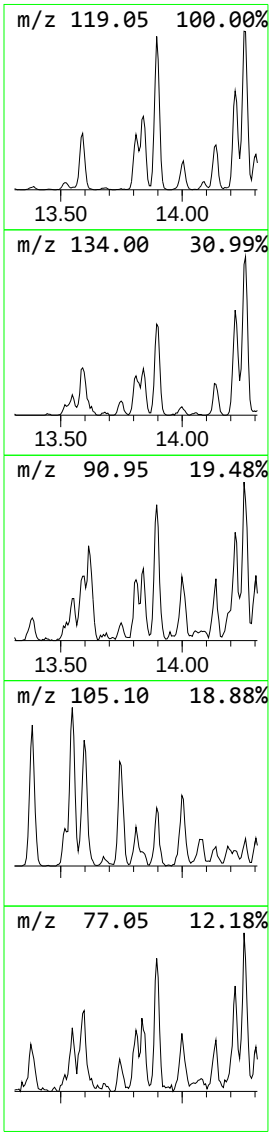
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.810	73.93 ug/l	99767	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
2	p-Cymene	134	C10H14	000099-87-6	94
3	o-Cymene	134	C10H14	000527-84-4	93
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

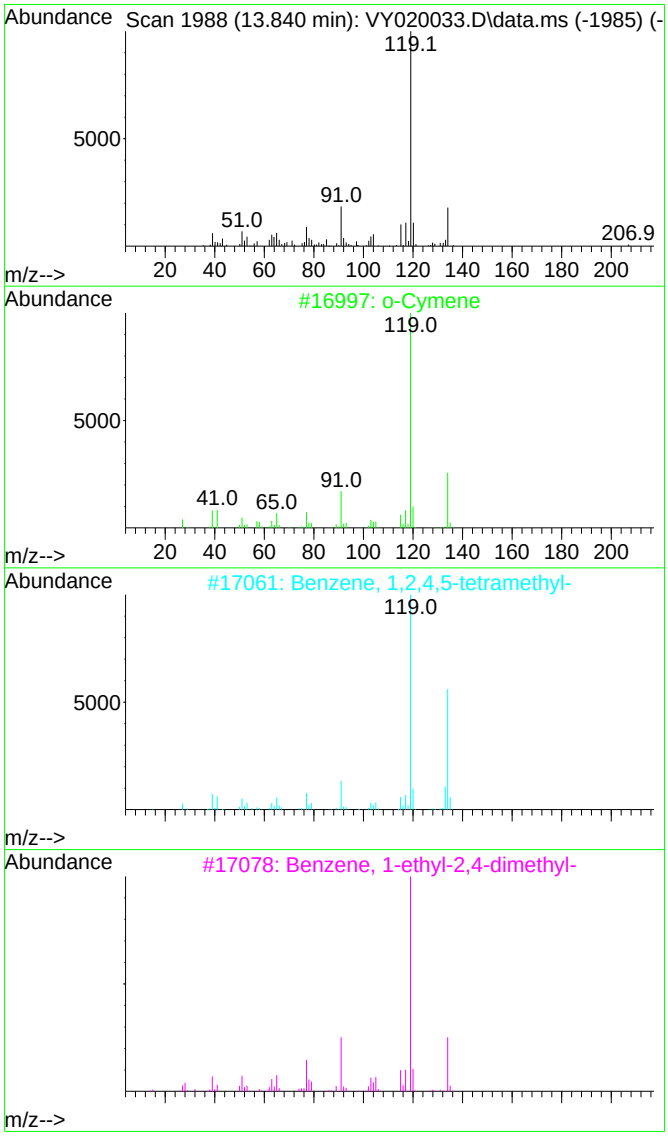
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TIC Integration Parameters: LSCINT.P

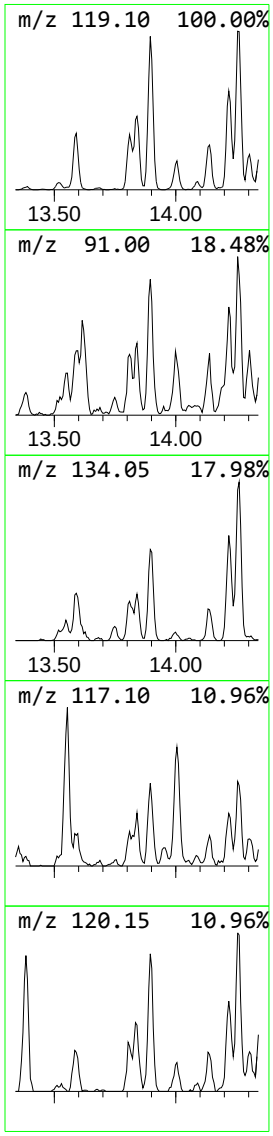
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Peak Number 3 o-Cymene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.840	87.43 ug/l	117987	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	91
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

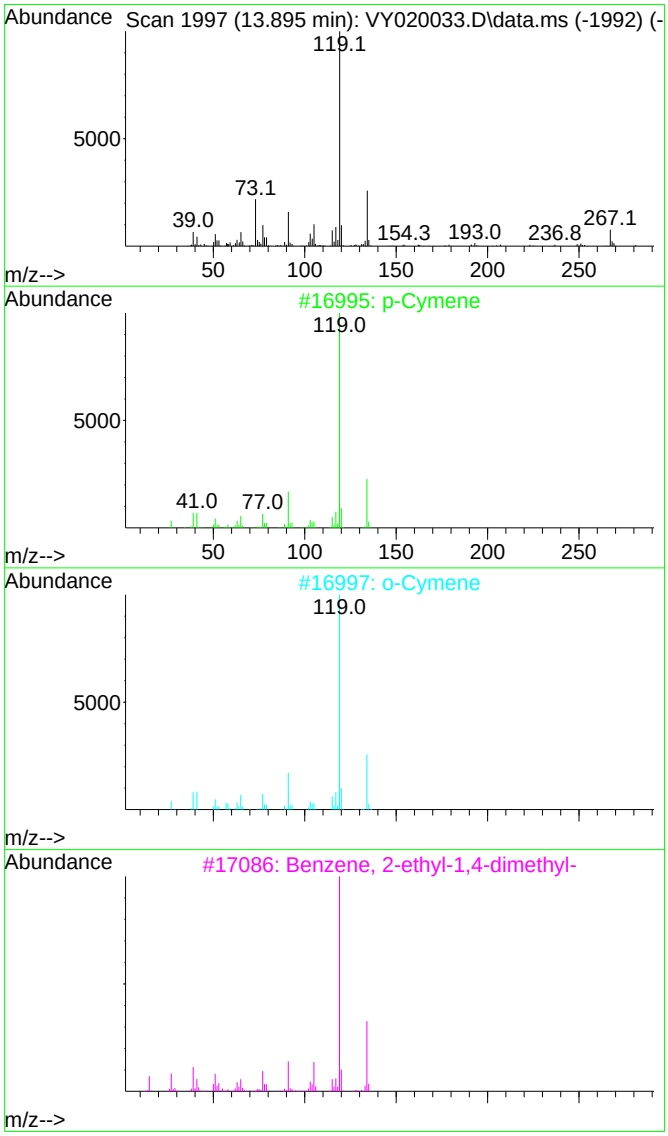
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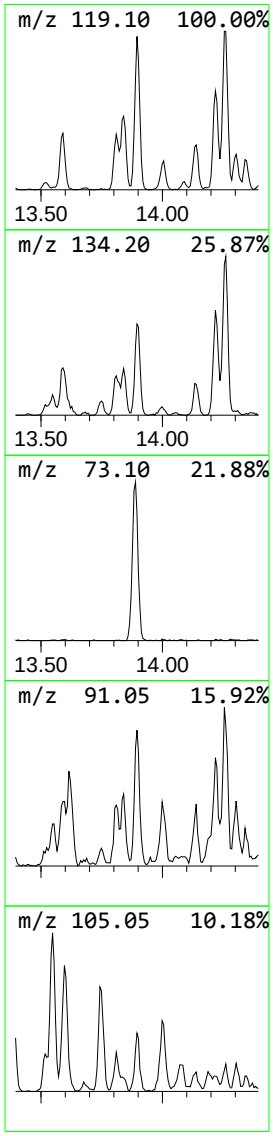
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.895	233.10 ug/l	314584	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	95
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	93
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	93
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	93





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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On    : 28 Oct 2024  11:56
Operator  : SY/MD
Sample    : P4578-03
Misc      : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial  : 6   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title  : SW846 8260

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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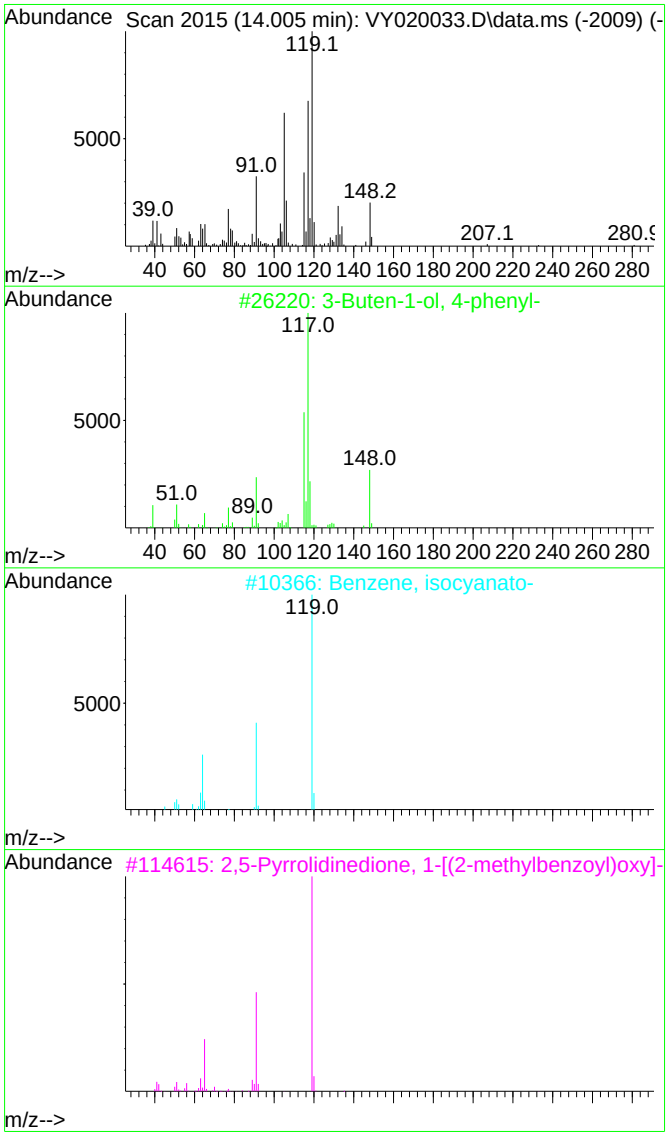
Instrument :
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ClientSampleId :
WB-305-TOP

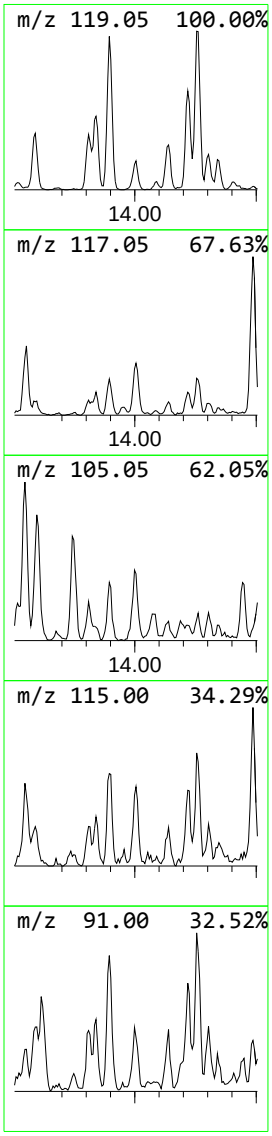
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Peak Number 5 unknown14.005 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.005	83.13 ug/l	112183	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Buten-1-ol, 4-phenyl-	148	C10H12O	000937-58-6	42
2	Benzene, isocyanato-	119	C7H5NO	000103-71-9	38
3	2,5-Pyrrolidinedione, 1-[(2-meth...	233	C12H11NO4	110920-14-4	38
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	35
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	35





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

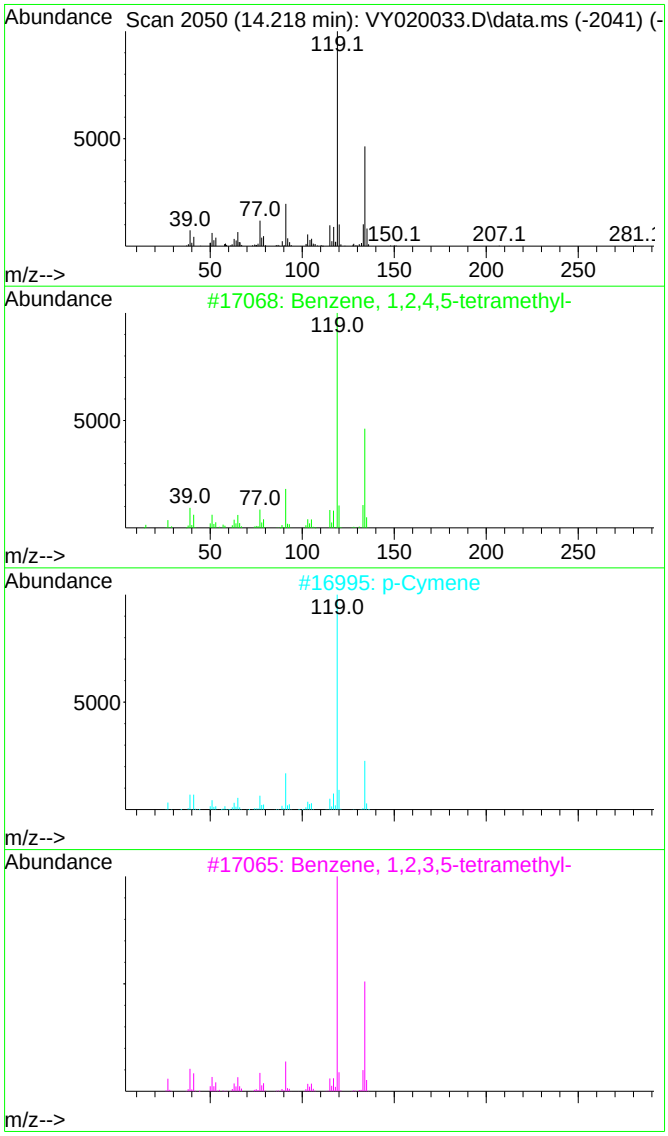
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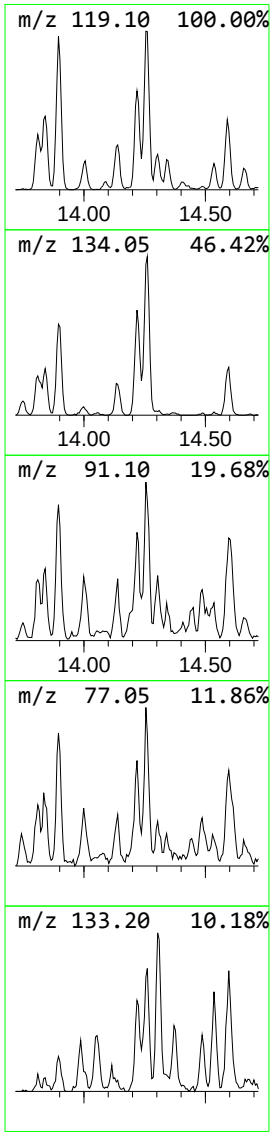
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.218	172.63 ug/l	232976	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
2	p-Cymene	134	C10H14	000099-87-6	95
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
5	o-Cymene	134	C10H14	000527-84-4	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

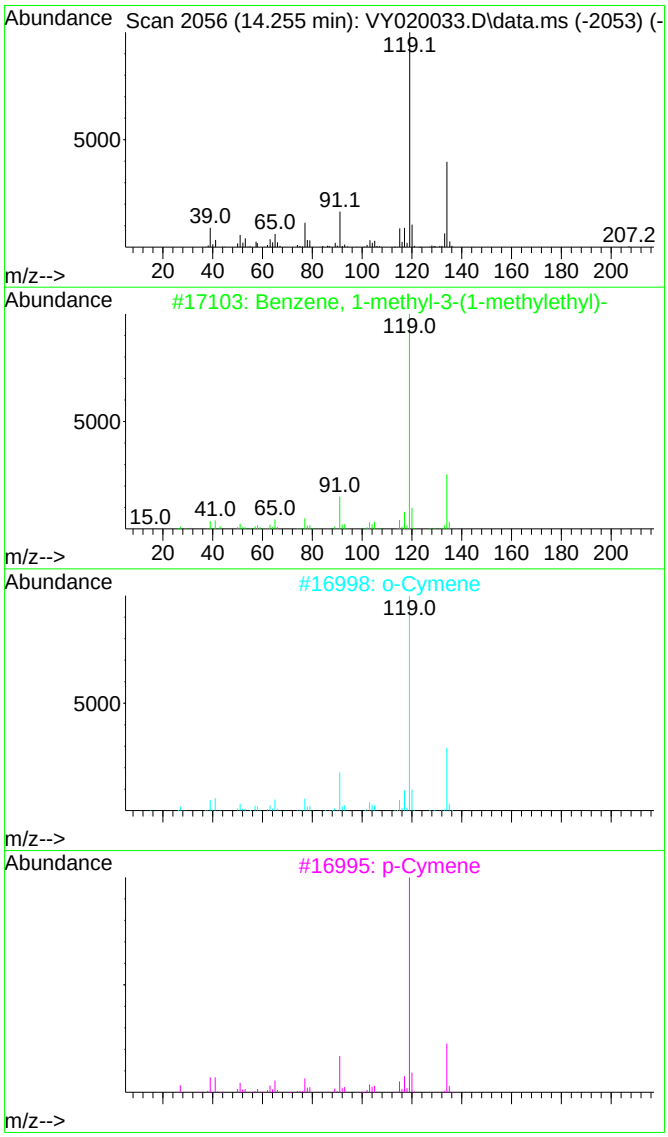
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Quant Title : SW846 8260

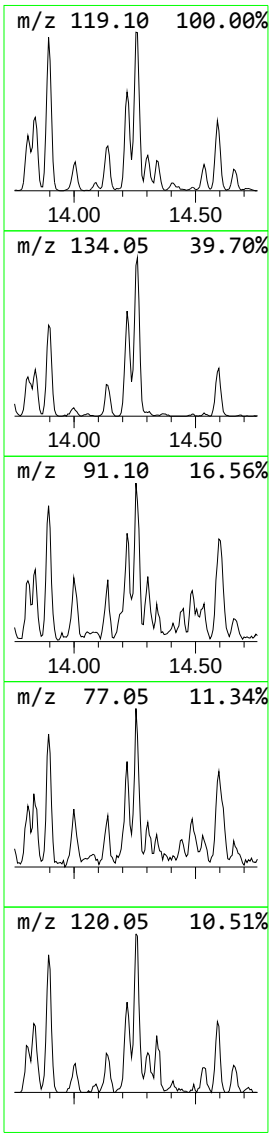
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Benzene, 1-methyl-3-(1-meth... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.255	208.66 ug/l	281603	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	91
2	o-Cymene	134	C10H14	000527-84-4	91
3	p-Cymene	134	C10H14	000099-87-6	91
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

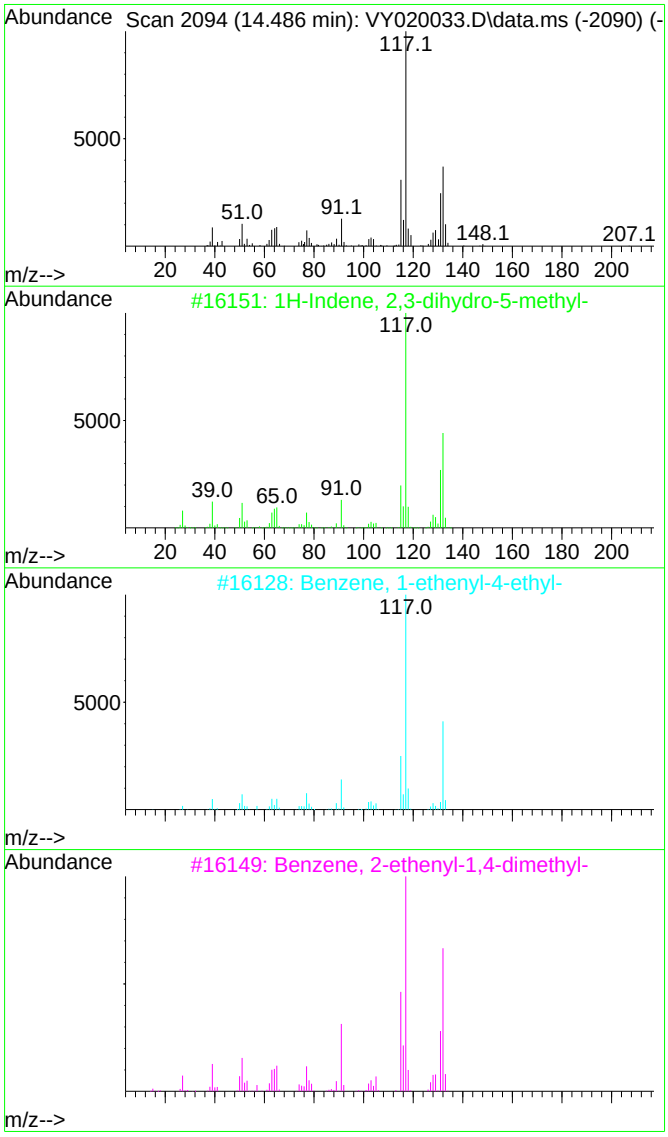
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

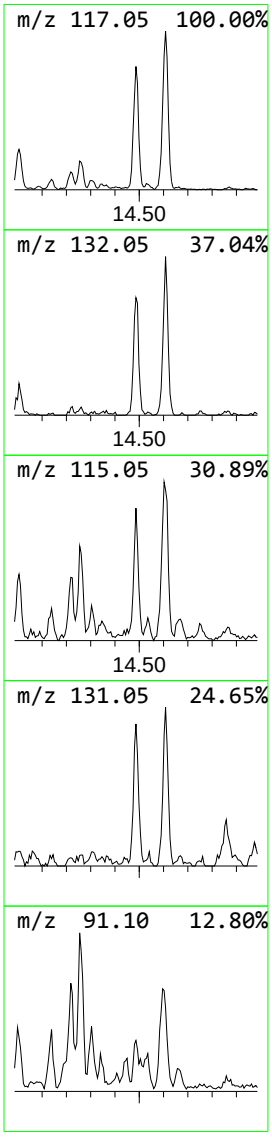
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.486	100.13 ug/l	135130	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	95
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	93
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90
4	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	87
5	1H-Indene, 2,3-dihydro-2-methyl-	132	C10H12	000824-63-5	81





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

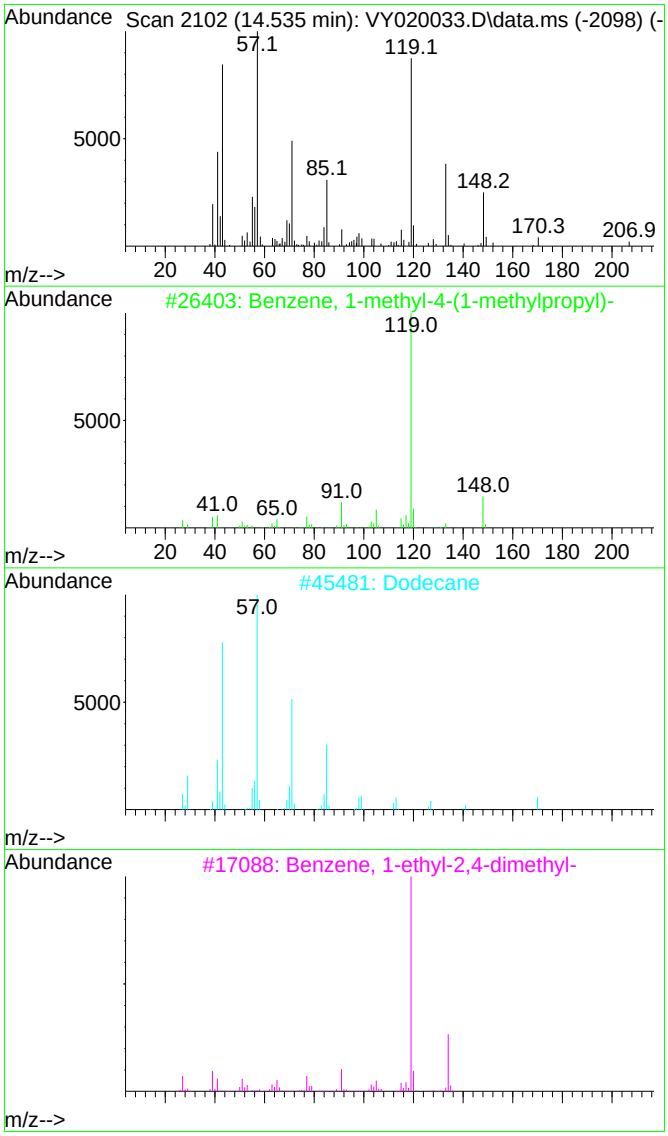
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Quant Title : SW846 8260

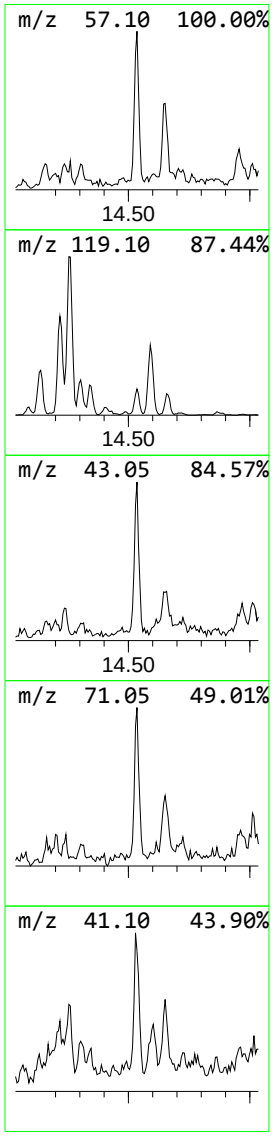
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 unknown14.535 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.535	91.53 ug/l	123528	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	38
2	Dodecane	170	C12H26	000112-40-3	30
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	30
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	30
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	27





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

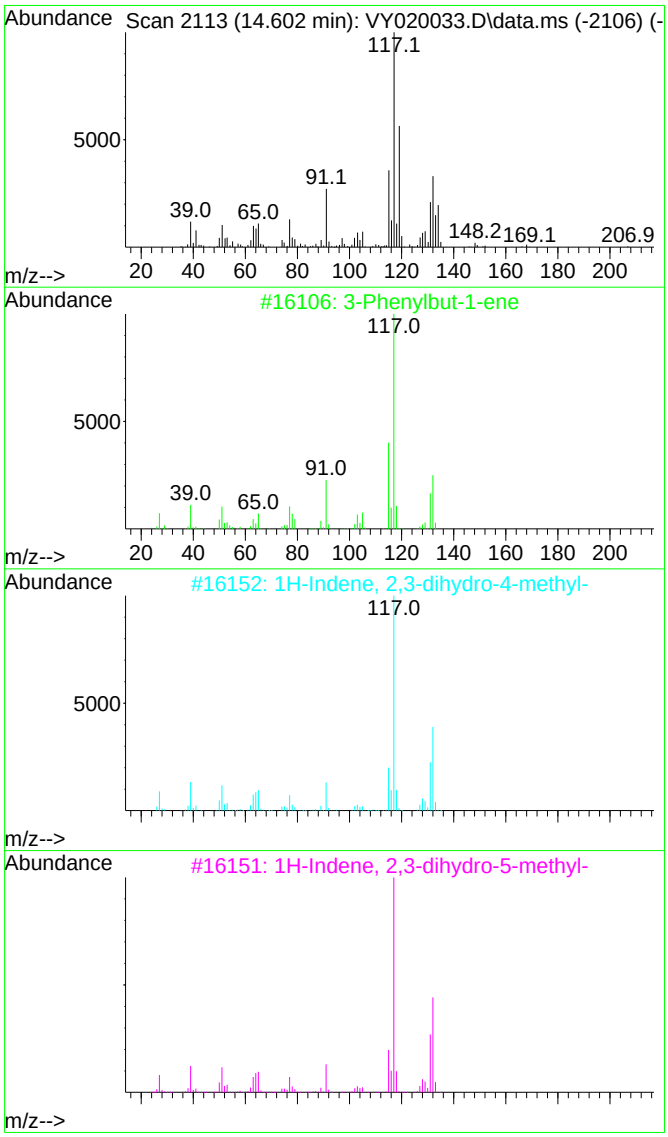
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TIC Integration Parameters: LSCINT.P

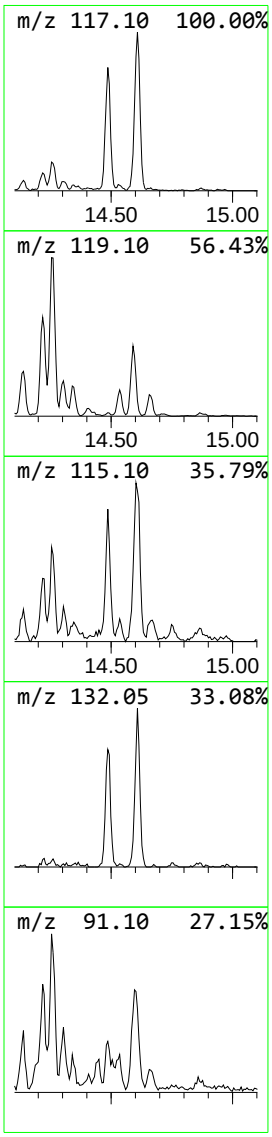
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Peak Number 10 3-Phenylbut-1-ene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.602	226.02 ug/l	305033	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Phenylbut-1-ene	132	C10H12	000934-10-1	92
2	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	70
3	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	64
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	64
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	60





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzene, 1-ethe...	13.548	101.1	ug/l	136438	4	13.359	67478	50.0
Benzene, 2-ethy...	13.810	73.9	ug/l	99767	4	13.359	67478	50.0
o-Cymene	13.840	87.4	ug/l	117987	4	13.359	67478	50.0
Benzene, 2-ethy...	13.895	233.1	ug/l	314584	4	13.359	67478	50.0
unknown14.005	14.005	83.1	ug/l	112183	4	13.359	67478	50.0
Benzene, 1,2,4,...	14.218	172.6	ug/l	232976	4	13.359	67478	50.0
Benzene, 1-meth...	14.255	208.7	ug/l	281603	4	13.359	67478	50.0
1H-Indene, 2,3-...	14.486	100.1	ug/l	135130	4	13.359	67478	50.0
unknown14.535	14.535	91.5	ug/l	123528	4	13.359	67478	50.0
3-Phenylbut-1-ene	14.602	226.0	ug/l	305033	4	13.359	67478	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Quant Time: Oct 29 01:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

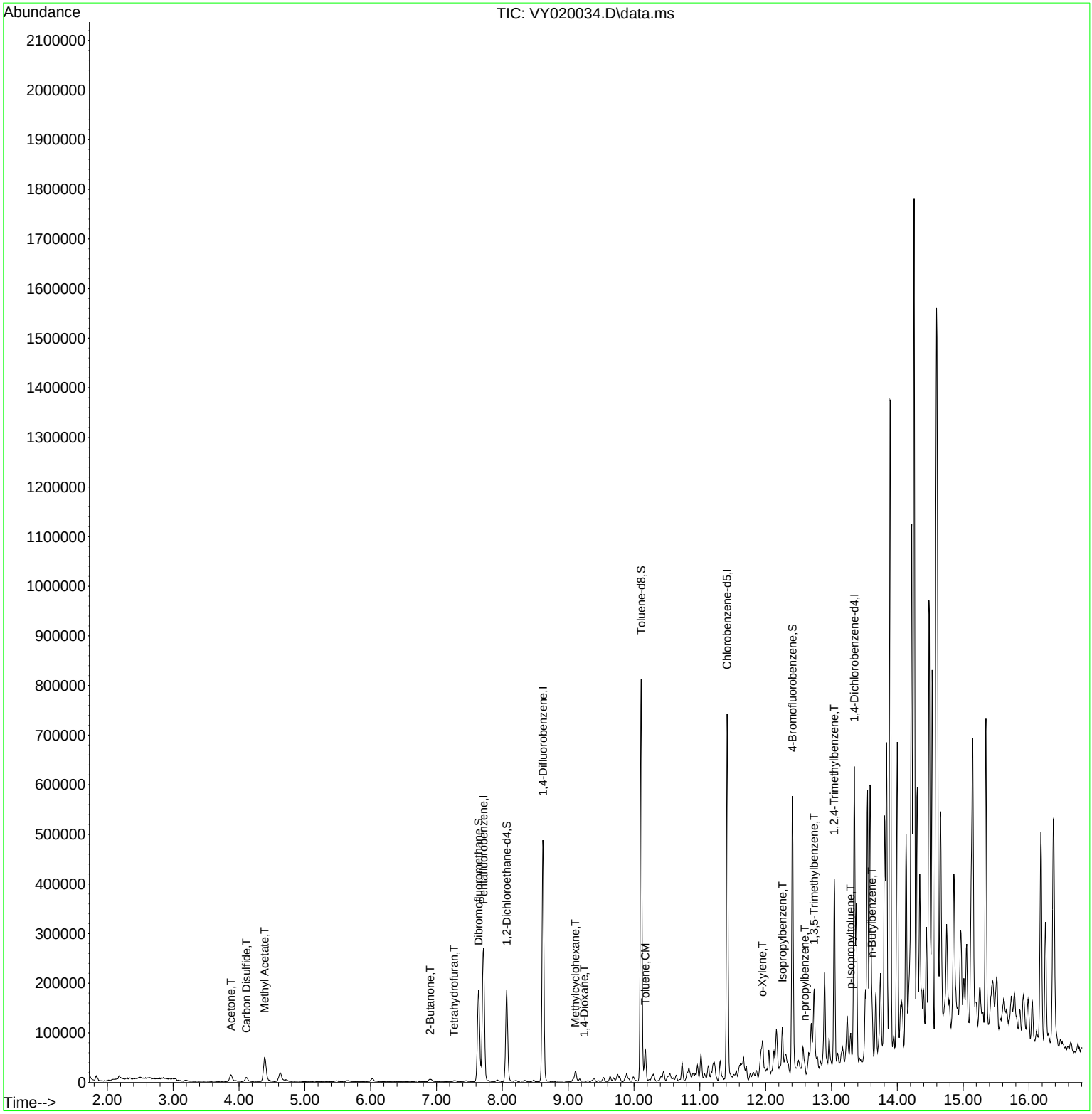
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	189016	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	386680	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	354785	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	133013	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	137110	58.913	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 117.820%			
35) Dibromofluoromethane	7.640	113	129124	50.604	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.200%			
50) Toluene-d8	10.109	98	486723	51.653	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.300%			
62) 4-Bromofluorobenzene	12.408	95	155308	45.615	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 91.220%			
Target Compounds						Qvalue
16) Acetone	3.879	43	24523	40.477	ug/l #	76
17) Carbon Disulfide	4.110	76	16417	3.021	ug/l	100
18) Methyl Acetate	4.391	43	101283	77.606	ug/l #	85
25) 2-Butanone	6.902	43	8676	10.699	ug/l #	83
29) Tetrahydrofuran	7.268	42	1590	3.434	ug/l #	75
39) Methylcyclohexane	9.109	83	7326	1.582	ug/l #	82
49) 1,4-Dioxane	9.243	88	694	40.756	ug/l #	34
52) Toluene	10.170	92	24760	3.565	ug/l	98
69) o-Xylene	11.950	106	14909	2.850	ug/l	94
73) Isopropylbenzene	12.255	105	46935	4.195	ug/l	98
78) n-propylbenzene	12.597	91	13628	1.008	ug/l	93
80) 1,3,5-Trimethylbenzene	12.737	105	46294	5.124	ug/l	97
84) 1,2,4-Trimethylbenzene	13.042	105	188500	21.042	ug/l	97
86) p-Isopropyltoluene	13.292	119	21159	2.155	ug/l	91
89) n-Butylbenzene	13.615	91	46394	4.838	ug/l #	65

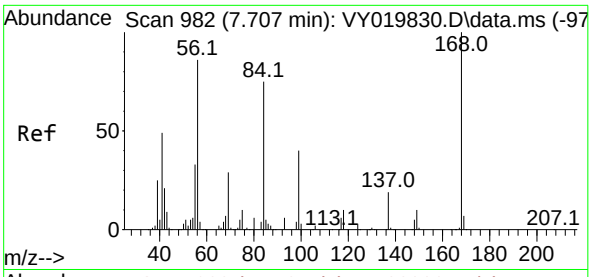
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Quant Time: Oct 29 01:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



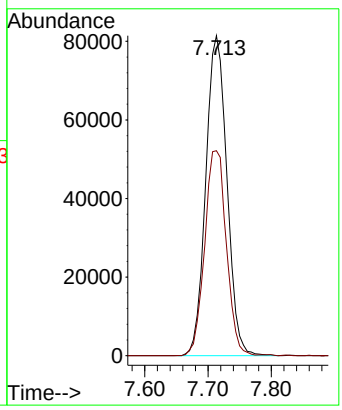


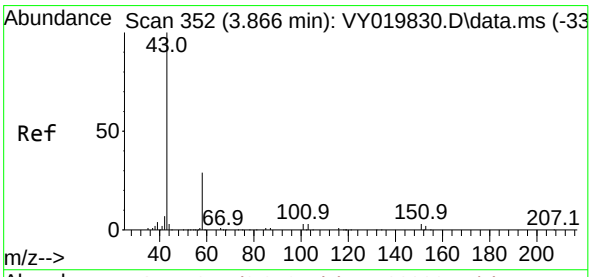
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Tgt Ion:168 Resp: 189016

Ion	Ratio	Lower	Upper
168	100		
99	64.1	39.1	58.7#

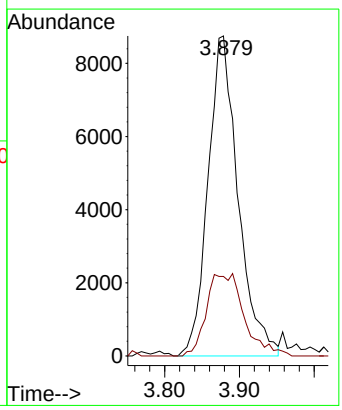


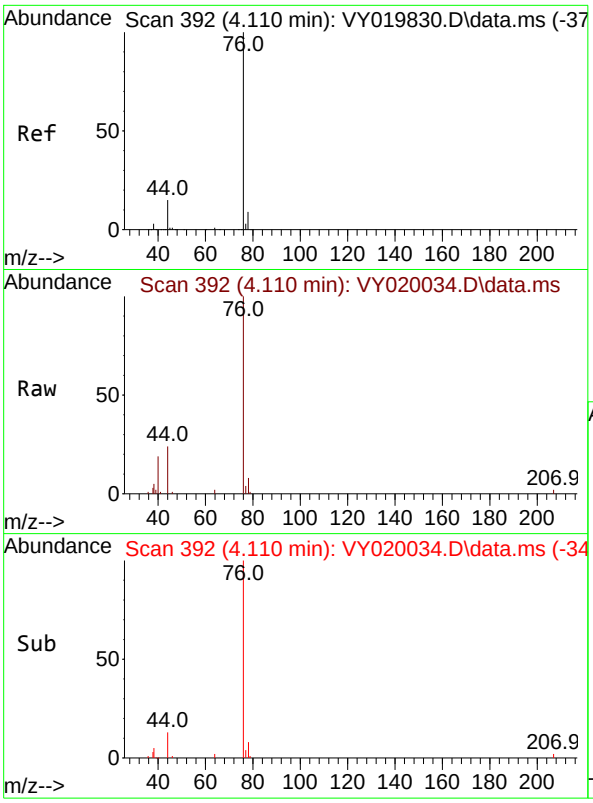


#16
Acetone
Concen: 40.477 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion: 43 Resp: 24523

Ion	Ratio	Lower	Upper
43	100		
58	24.8	31.7	47.5#



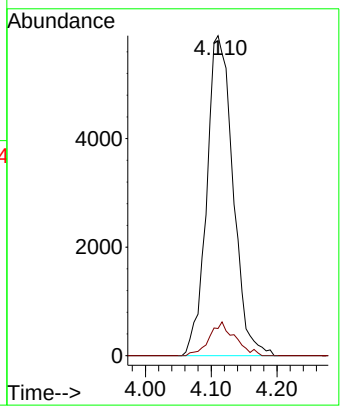


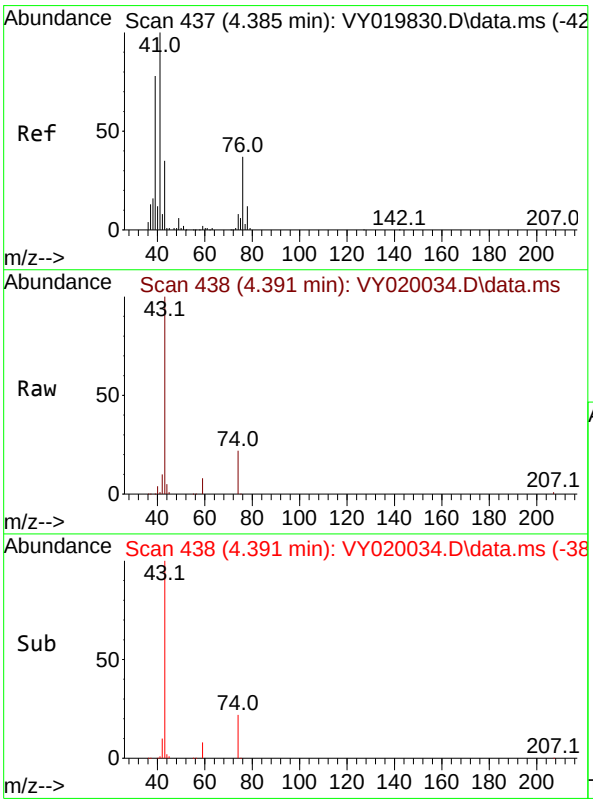
#17
Carbon Disulfide
Concen: 3.021 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Tgt Ion: 76 Resp: 16417

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.8	10.2

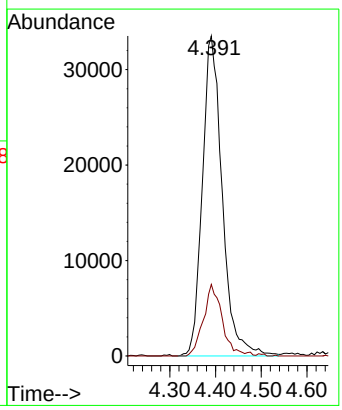


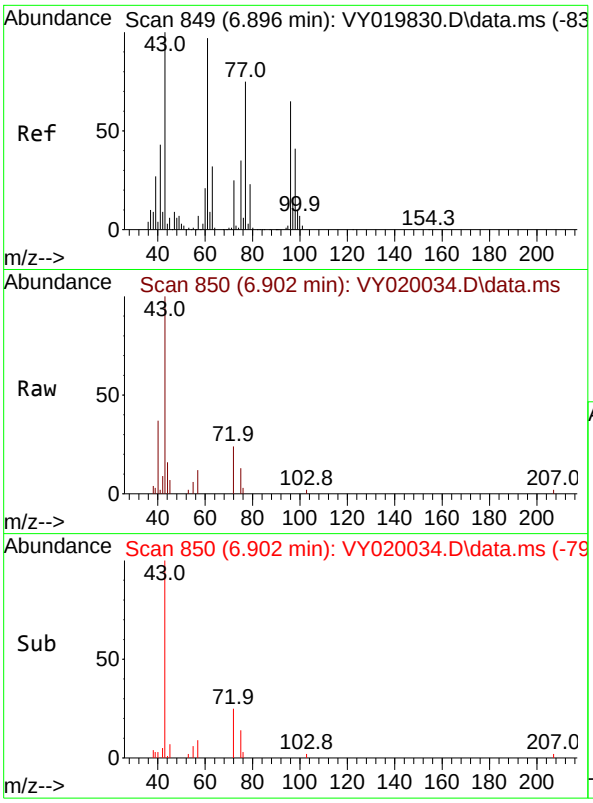


#18
Methyl Acetate
Concen: 77.606 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion: 43 Resp: 101283

Ion	Ratio	Lower	Upper
43	100		
74	20.8	23.3	34.9#



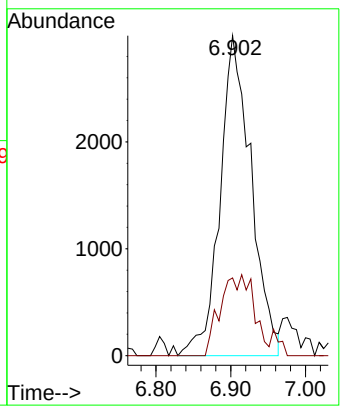


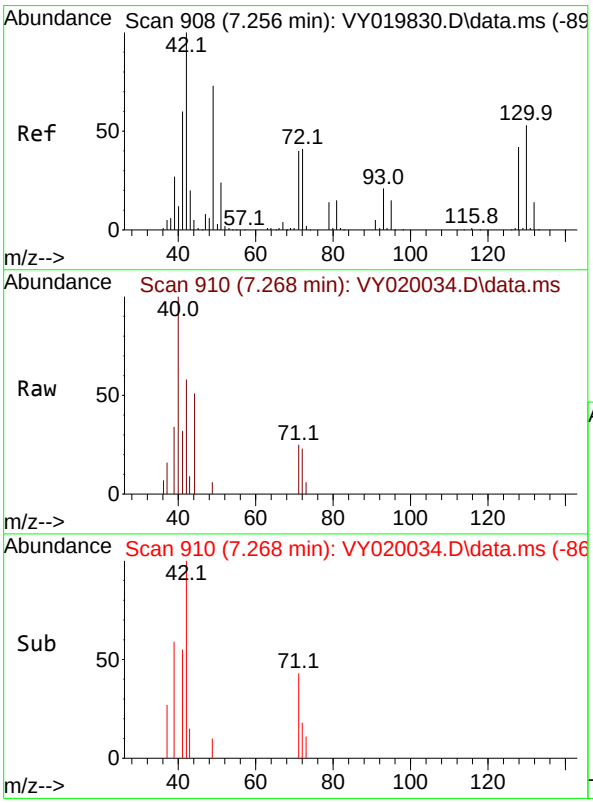
#25
2-Butanone
Concen: 10.699 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Tgt Ion: 43 Resp: 8676

Ion	Ratio	Lower	Upper
43	100		
72	24.3	27.3	40.9#

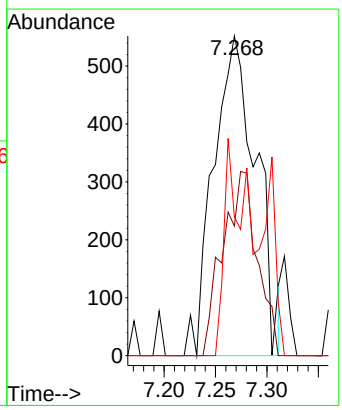


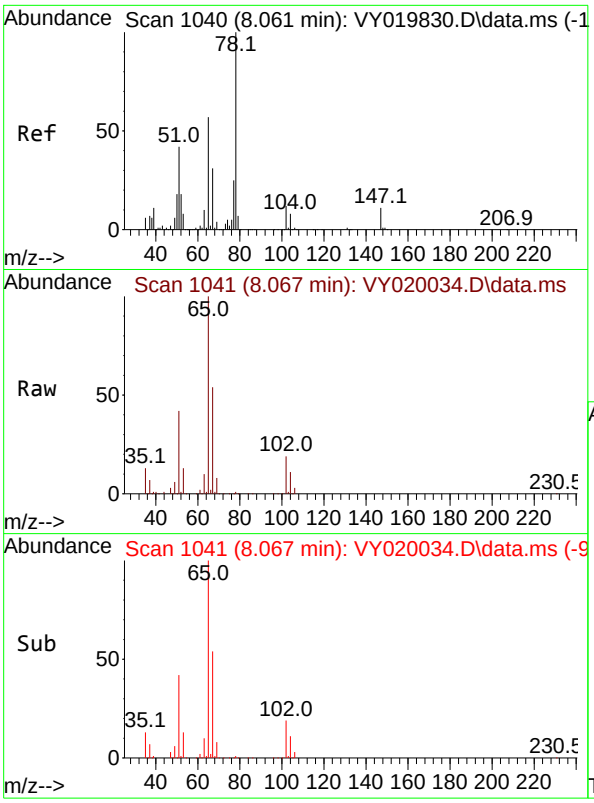


#29
Tetrahydrofuran
Concen: 3.434 ug/l
RT: 7.268 min Scan# 910
Delta R.T. 0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion: 42 Resp: 1590

Ion	Ratio	Lower	Upper
42	100		
72	46.6	43.0	64.4
71	22.0	40.8	61.2#



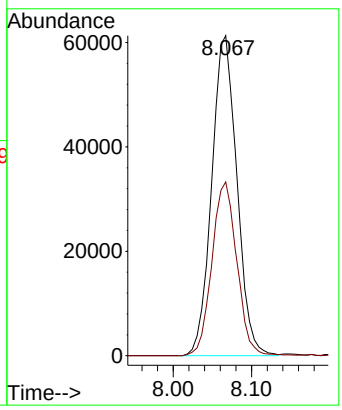


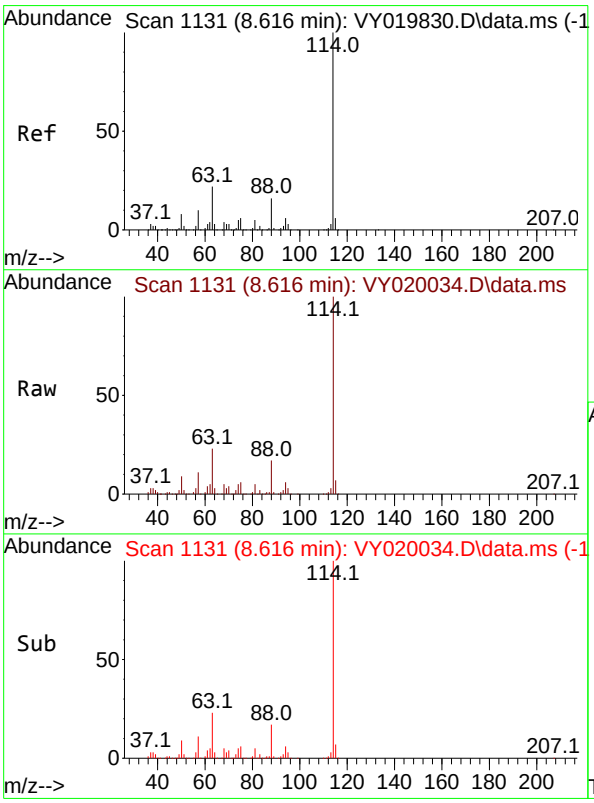
#33
1,2-Dichloroethane-d4
Concen: 58.913 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Tgt Ion: 65 Resp: 137110

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	109.6

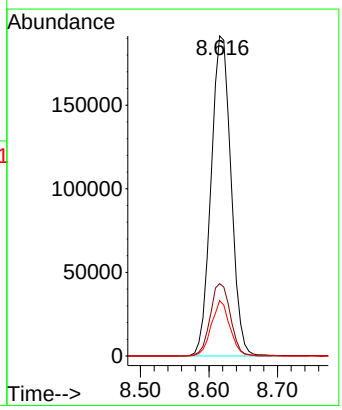


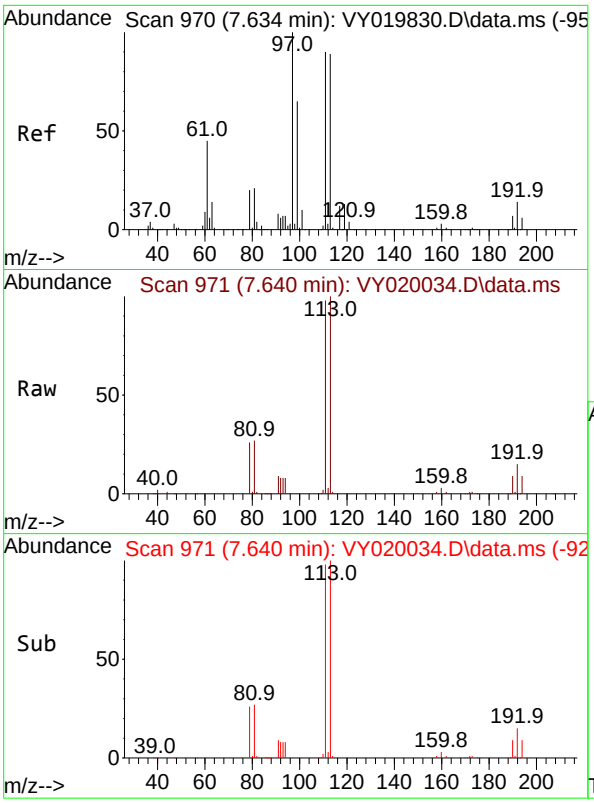


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion:114 Resp: 386680

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	35.0
88	17.3	0.0	27.2



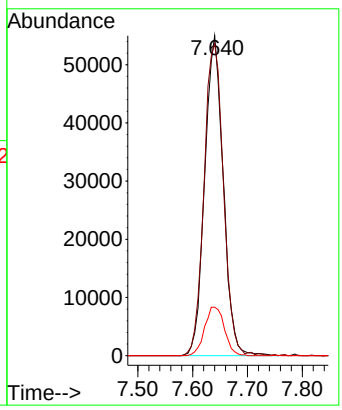


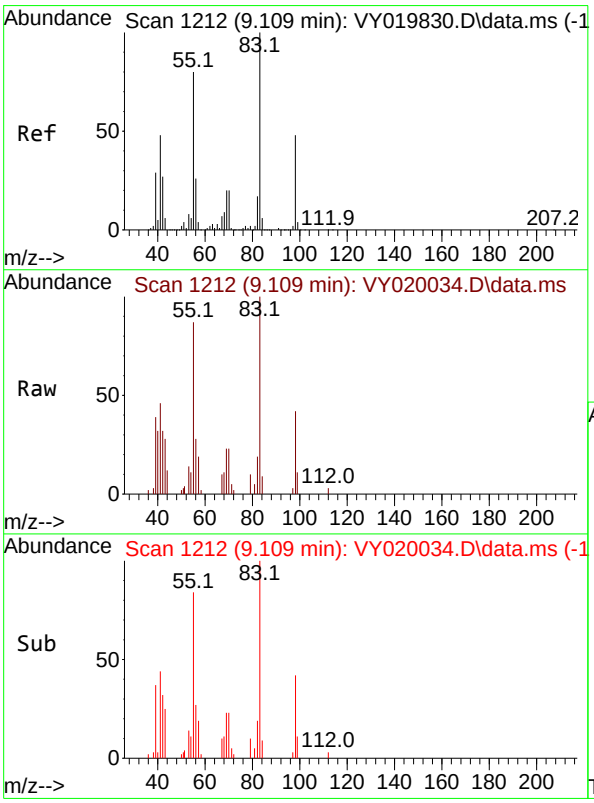
#35
Dibromofluoromethane
Concen: 50.604 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Tgt Ion:113 Resp: 129124

Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.2	123.4
192	16.2	15.9	23.9

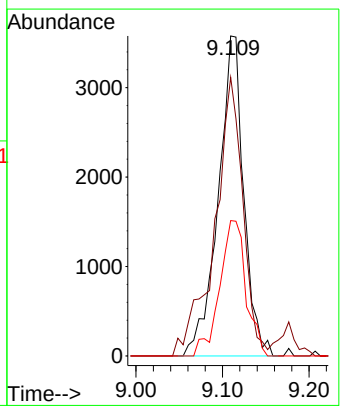


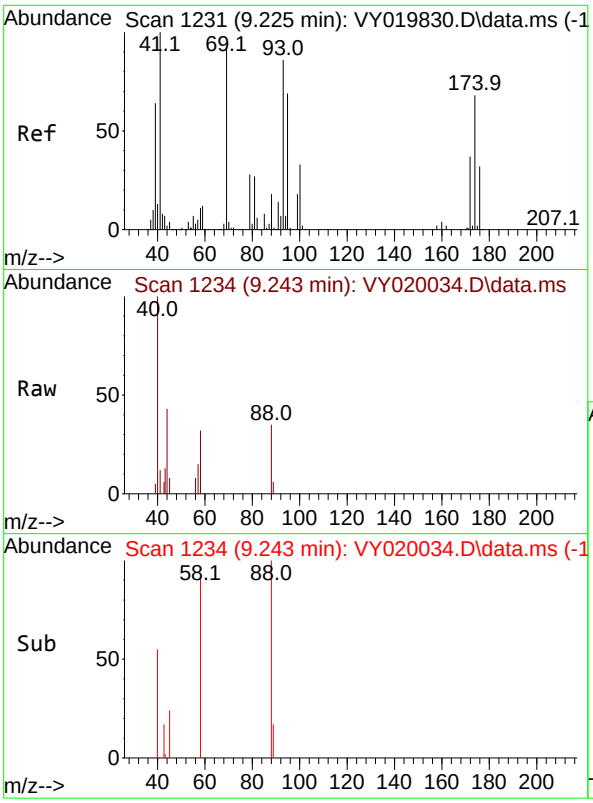


#39
Methylcyclohexane
Concen: 1.582 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion: 83 Resp: 7326

Ion	Ratio	Lower	Upper
83	100		
55	82.1	51.5	77.3#
98	42.3	40.5	60.7



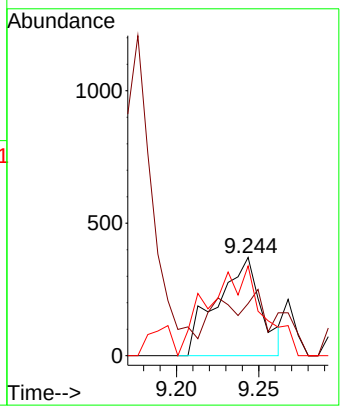


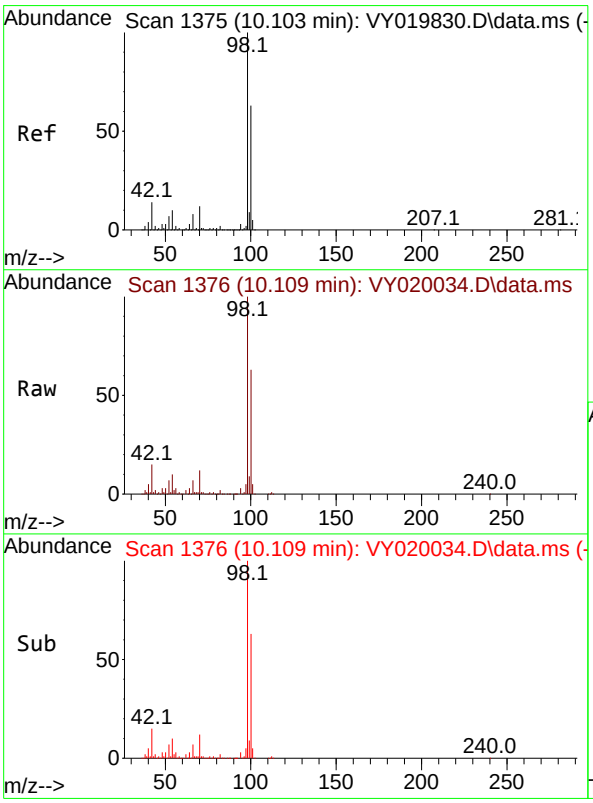
#49
1,4-Dioxane
Concen: 40.756 ug/l
RT: 9.243 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Tgt Ion: 88 Resp: 694

Ion	Ratio	Lower	Upper
88	100		
43	24.8	0.0	0.0#
58	112.2	49.3	73.9#

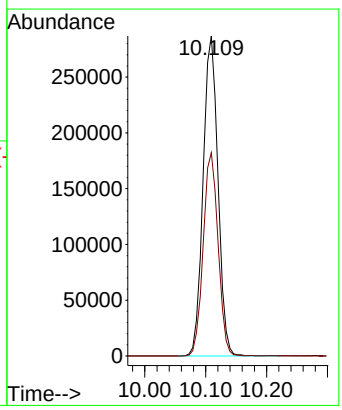


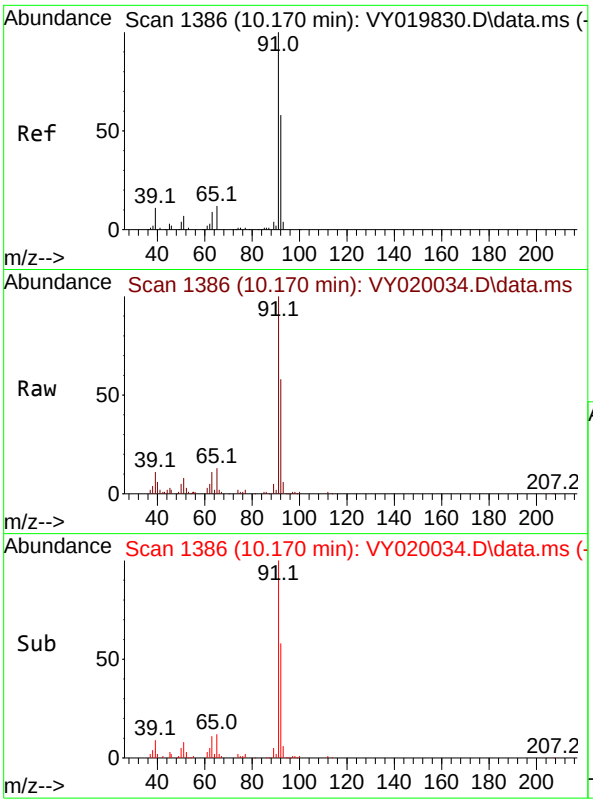


#50
Toluene-d8
Concen: 51.653 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion: 98 Resp: 486723

Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.0	78.0



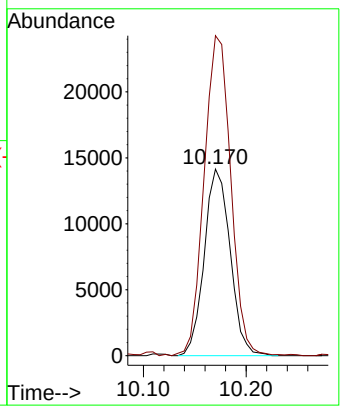


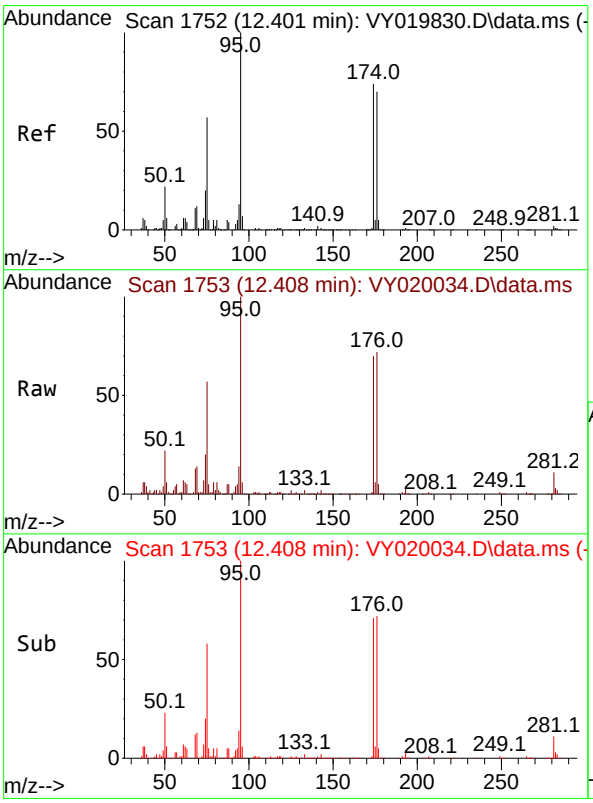
#52
Toluene
Concen: 3.565 ug/l
RT: 10.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Tgt Ion: 92 Resp: 24760

Ion	Ratio	Lower	Upper
92	100		
91	176.6	139.0	208.6

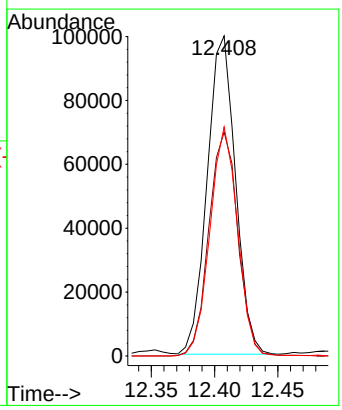


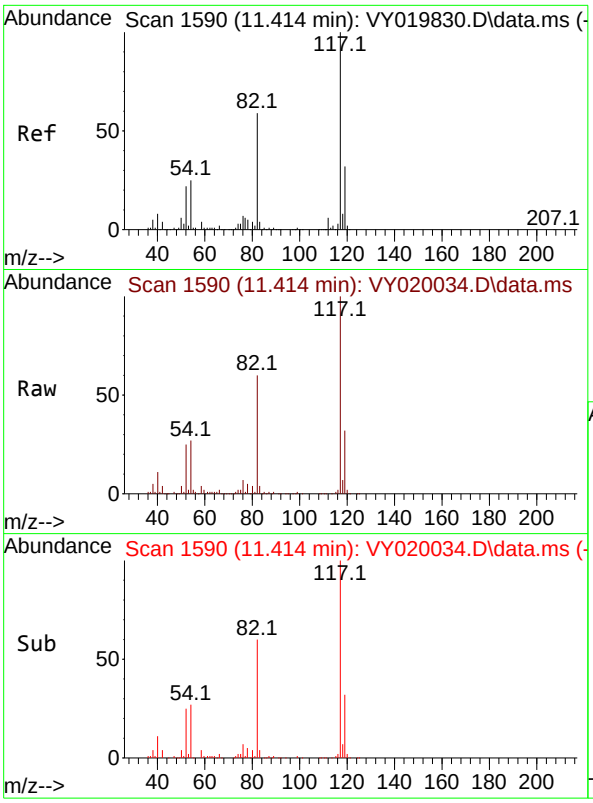


#62
4-Bromofluorobenzene
Concen: 45.615 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion: 95 Resp: 155308

Ion	Ratio	Lower	Upper
95	100		
174	71.9	0.0	175.6
176	70.1	0.0	171.4



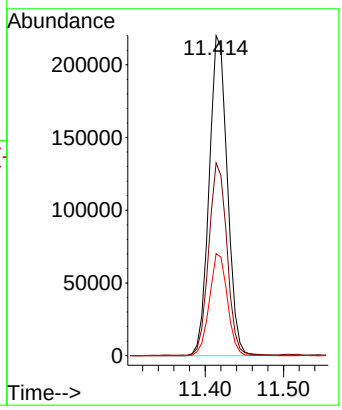


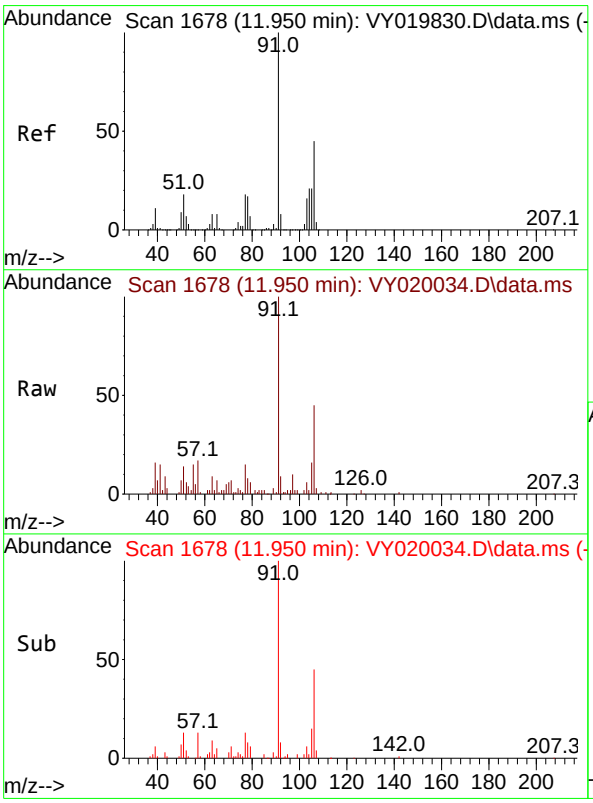
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Tgt Ion:117 Resp: 354785

Ion	Ratio	Lower	Upper
117	100		
82	60.1	42.4	63.6
119	31.9	25.9	38.9

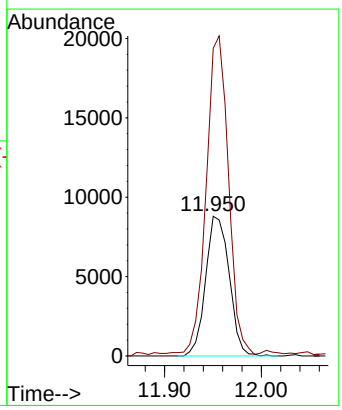


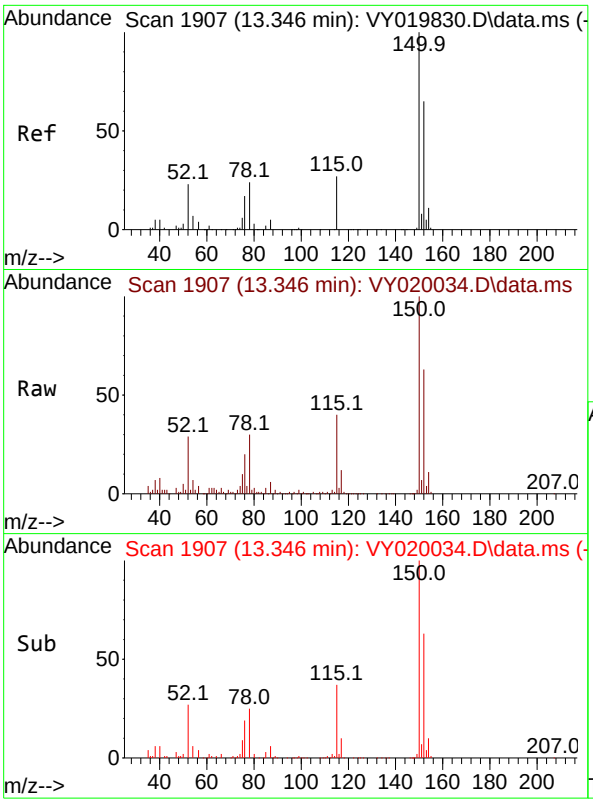


#69
o-Xylene
Concen: 2.850 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion:106 Resp: 14909

Ion	Ratio	Lower	Upper
106	100		
91	215.9	103.6	310.8



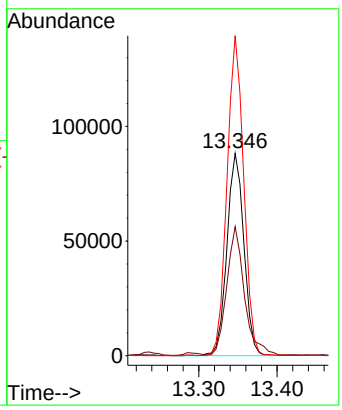


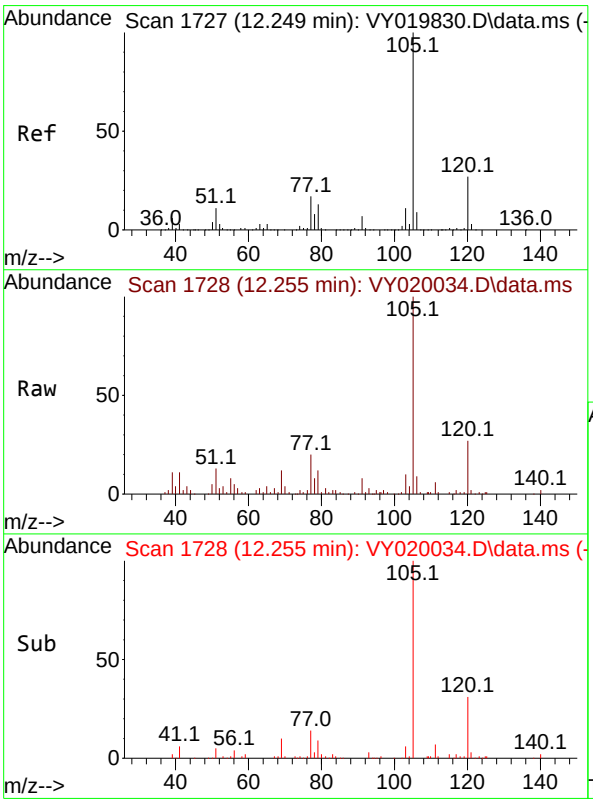
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Tgt Ion:152 Resp: 133013

Ion	Ratio	Lower	Upper
152	100		
115	65.5	28.2	84.7
150	154.6	0.0	345.6

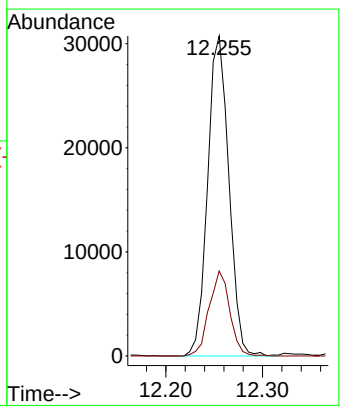




#73
Isopropylbenzene
Concen: 4.195 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

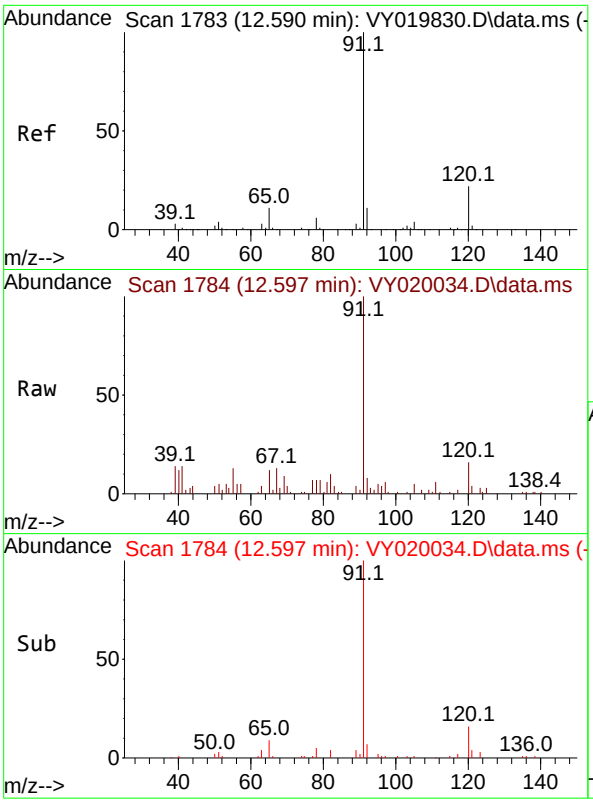
Tgt Ion:105 Resp: 46935

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.4	40.1



5

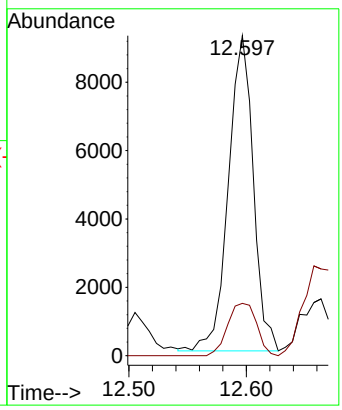
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

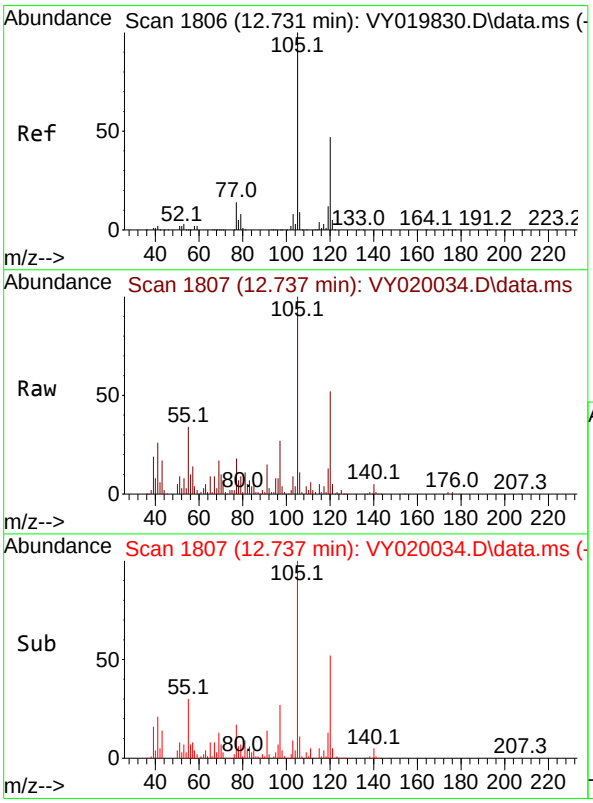


#78
n-propylbenzene
Concen: 1.008 ug/l
RT: 12.597 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion: 91 Resp: 13628

Ion	Ratio	Lower	Upper
91	100		
120	19.3	11.5	34.4

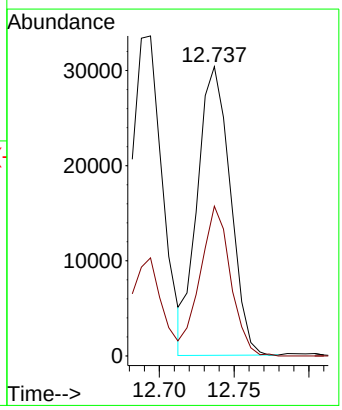




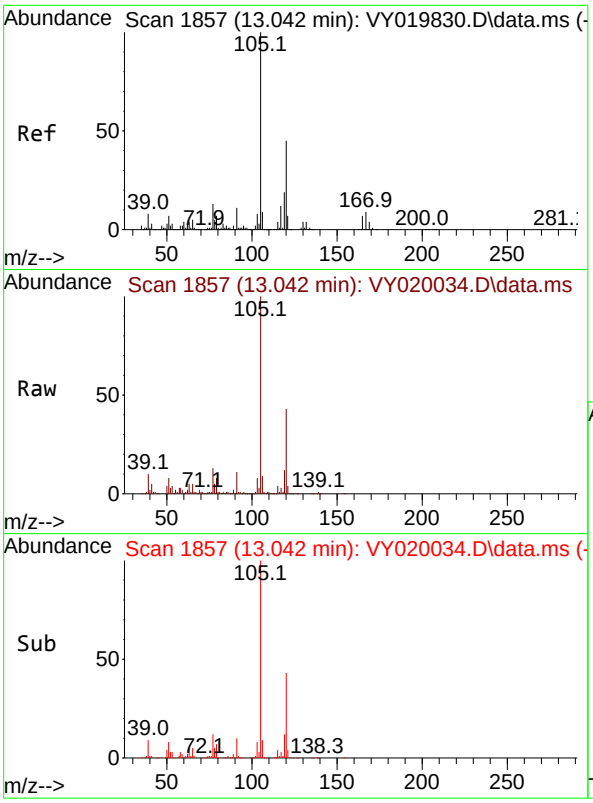
#80
1,3,5-Trimethylbenzene
Concen: 5.124 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion:105 Resp: 46294

Ion	Ratio	Lower	Upper
105	100		
120	48.1	25.1	75.2



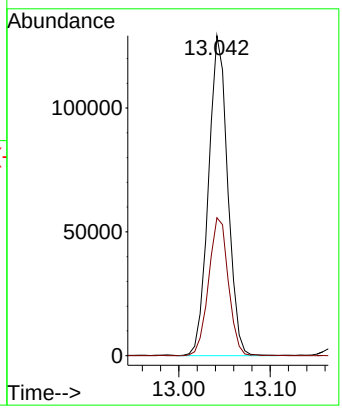
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

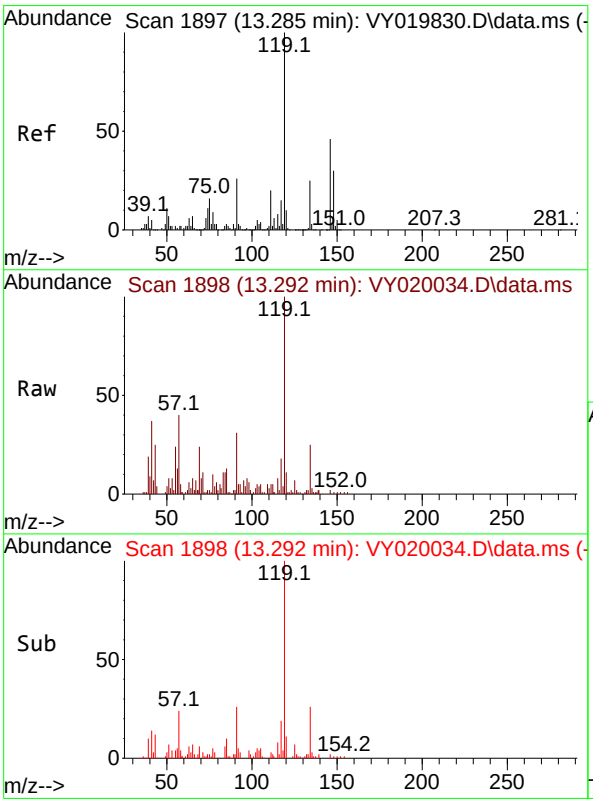


#84
1,2,4-Trimethylbenzene
Concen: 21.042 ug/l
RT: 13.042 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion:105 Resp: 188500

Ion	Ratio	Lower	Upper
105	100		
120	44.1	23.2	69.6

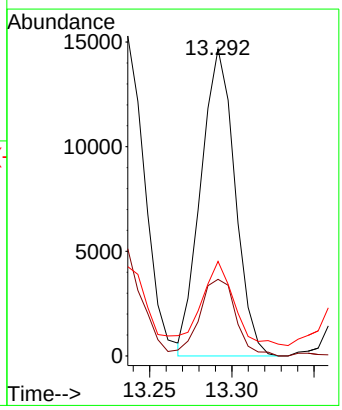


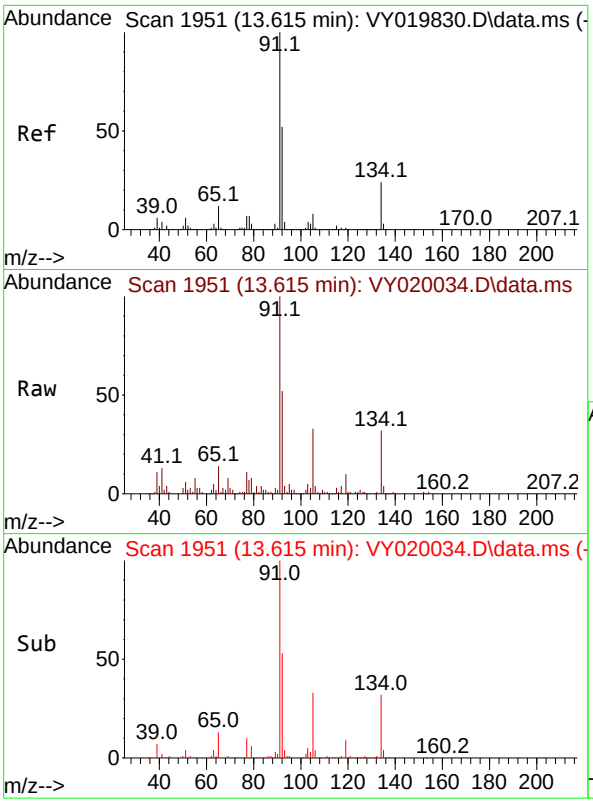


#86
p-Isopropyltoluene
Concen: 2.155 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion:119 Resp: 21159

Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.1	39.3
91	30.0	10.7	32.1



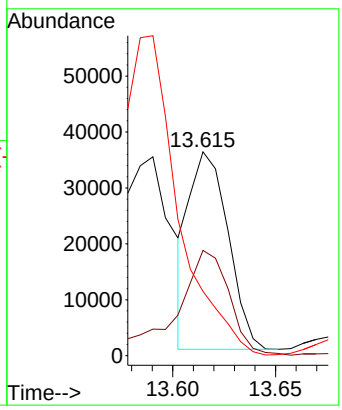


#89
n-Butylbenzene
Concen: 4.838 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Tgt Ion: 91 Resp: 46394

Ion	Ratio	Lower	Upper
91	100		
92	72.5	26.6	79.7
134	0.0	12.9	38.7#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

Signal : TIC: VY020034.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.873	343	353	362	rBV2	13876	41343	1.34%	0.110%
2	4.391	428	438	448	rBV	49013	144029	4.67%	0.383%
3	4.628	465	477	486	rBV2	17525	57380	1.86%	0.152%
4	7.640	961	971	977	rBV	185132	445648	14.46%	1.184%
5	7.713	977	983	994	rVB	267843	620236	20.12%	1.648%
6	8.067	1031	1041	1052	rBV	185887	405743	13.16%	1.078%
7	8.616	1122	1131	1142	rBV	486181	971182	31.51%	2.580%
8	9.115	1200	1213	1218	rBV5	21885	57414	1.86%	0.153%
9	9.890	1330	1340	1349	rBV6	16417	47345	1.54%	0.126%
10	10.109	1368	1376	1382	rBV	810445	1411187	45.78%	3.749%
11	10.170	1382	1386	1393	rVB	62901	115237	3.74%	0.306%
12	10.451	1428	1432	1437	rVB	18957	31292	1.02%	0.083%
13	10.542	1437	1447	1454	rBV7	13949	44557	1.45%	0.118%
14	10.731	1473	1478	1484	rVB	34777	55568	1.80%	0.148%
15	10.835	1491	1495	1501	rVB2	19418	37485	1.22%	0.100%
16	10.963	1513	1516	1520	rVB2	24551	32632	1.06%	0.087%
17	11.018	1520	1525	1531	rVB	49623	80149	2.60%	0.213%
18	11.127	1538	1543	1548	rBV3	23956	41601	1.35%	0.111%
19	11.219	1552	1558	1567	rVB6	36937	108034	3.50%	0.287%
20	11.310	1567	1573	1582	rBV	39147	78242	2.54%	0.208%
21	11.414	1582	1590	1603	rBV	736794	1211472	39.30%	3.219%
22	11.615	1616	1623	1624	rBV6	24793	49503	1.61%	0.132%
23	11.664	1628	1631	1635	rVV	38428	64030	2.08%	0.170%
24	11.706	1635	1638	1643	rVB4	27257	41398	1.34%	0.110%
25	11.950	1667	1678	1686	rBV5	74435	248276	8.05%	0.660%
26	12.048	1690	1694	1698	rVB	48274	67323	2.18%	0.179%
27	12.127	1702	1707	1709	rVV3	42759	69840	2.27%	0.186%
28	12.164	1709	1713	1719	rVV3	84395	157581	5.11%	0.419%
29	12.255	1723	1728	1732	rVV	85390	140131	4.55%	0.372%
30	12.298	1732	1735	1747	rVB	39307	120054	3.89%	0.319%
31	12.408	1747	1753	1762	rBV2	559242	954852	30.98%	2.537%
32	12.566	1775	1779	1787	rVB3	54536	116092	3.77%	0.308%
33	12.651	1787	1793	1796	rBV5	43482	85815	2.78%	0.228%
34	12.694	1796	1800	1802	rVV	74681	109505	3.55%	0.291%
35	12.737	1802	1807	1813	rVB2	140769	238740	7.75%	0.634%
36	12.895	1826	1833	1841	rBV	187387	316411	10.27%	0.841%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

37	12.962	1841	1844	1851	rVV2	54361	79887	2.59%	0.212%
38	13.042	1852	1857	1862	rVV	372917	556027	18.04%	1.477%
39	13.090	1862	1865	1871	rVV6	20984	30981	1.01%	0.082%
40	13.170	1871	1878	1882	rVV6	31592	69636	2.26%	0.185%
41	13.237	1883	1889	1894	rVV2	93994	182528	5.92%	0.485%
42	13.292	1894	1898	1901	rVV3	58315	90986	2.95%	0.242%
43	13.346	1901	1907	1910	rVV	594453	951084	30.86%	2.527%
44	13.377	1910	1912	1917	rVB	318273	398892	12.94%	1.060%
45	13.517	1928	1935	1936	rBV	145577	212416	6.89%	0.564%
46	13.548	1936	1940	1943	rVV	537754	812656	26.36%	2.159%
47	13.584	1943	1946	1955	rVB3	546456	1001985	32.51%	2.662%
48	13.676	1955	1961	1965	rBV3	127760	205989	6.68%	0.547%
49	13.743	1965	1972	1977	rBV	158449	263646	8.55%	0.700%
50	13.804	1977	1982	1985	rBV	463429	763041	24.75%	2.027%
51	13.834	1985	1987	1992	rVB	577070	690541	22.40%	1.835%
52	13.889	1992	1996	2002	rVB	1302836	1968530	63.86%	5.230%
53	13.999	2008	2014	2019	rBV2	616054	961247	31.19%	2.554%
54	14.054	2019	2023	2024	rBV	66581	91067	2.95%	0.242%
55	14.133	2030	2036	2040	rBV	427529	682650	22.15%	1.814%
56	14.218	2040	2050	2052	rVV	1044629	1836865	59.59%	4.880%
57	14.255	2052	2056	2060	rVV	1692804	2426610	78.72%	6.447%
58	14.304	2060	2064	2067	rVV2	502680	751564	24.38%	1.997%
59	14.340	2067	2070	2074	rVV	322300	477387	15.49%	1.268%
60	14.401	2077	2080	2083	rVV	80987	109686	3.56%	0.291%
61	14.444	2083	2087	2089	rVV	205232	271017	8.79%	0.720%
62	14.480	2089	2093	2098	rVV	857944	1389999	45.09%	3.693%
63	14.529	2098	2101	2106	rVB	723602	966094	31.34%	2.567%
64	14.596	2106	2112	2118	rBV3	1452966	3082391	100.00%	8.189%
65	14.657	2118	2122	2128	rVB3	412368	734382	23.83%	1.951%
66	14.749	2133	2137	2142	rVB	161871	240219	7.79%	0.638%
67	14.858	2149	2155	2163	rBV2	299676	606012	19.66%	1.610%
68	14.962	2167	2172	2177	rVV4	173101	336637	10.92%	0.894%
69	15.011	2177	2180	2183	rVV2	69340	101403	3.29%	0.269%
70	15.053	2183	2187	2193	rVB4	158148	252102	8.18%	0.670%
71	15.145	2193	2202	2207	rBV2	572518	1282122	41.60%	3.406%
72	15.255	2215	2220	2225	rBV5	77705	163525	5.31%	0.434%
73	15.346	2230	2235	2241	rVB	616168	883536	28.66%	2.347%
74	15.450	2245	2252	2256	rBV5	61815	154945	5.03%	0.412%
75	15.858	2316	2319	2323	rVB4	40965	60043	1.95%	0.160%
76	15.913	2324	2328	2335	rVV5	75618	174816	5.67%	0.464%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

77	15.986	2335	2340	2346	rVB7	78842	167004	5.42%	0.444%
78	16.053	2346	2351	2357	rVB3	78880	137995	4.48%	0.367%
79	16.181	2366	2372	2378	rVB	416372	774786	25.14%	2.058%
80	16.248	2378	2383	2389	rBV	234676	386642	12.54%	1.027%
81	16.370	2396	2403	2417	rVB	456840	1040176	33.75%	2.764%

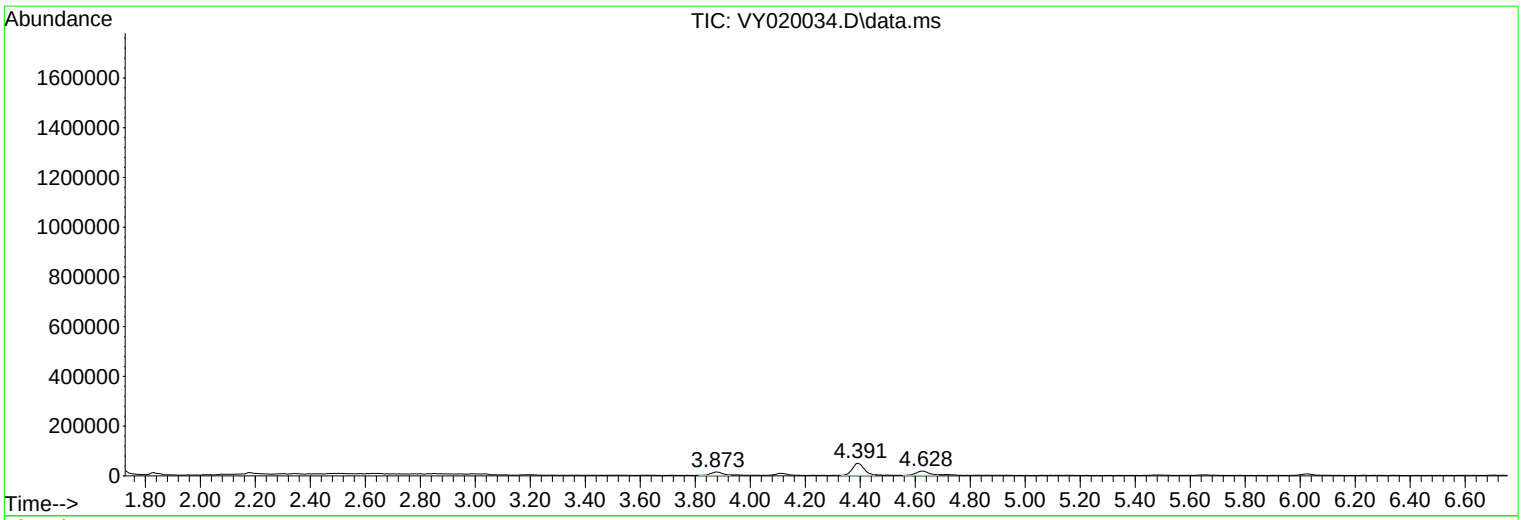
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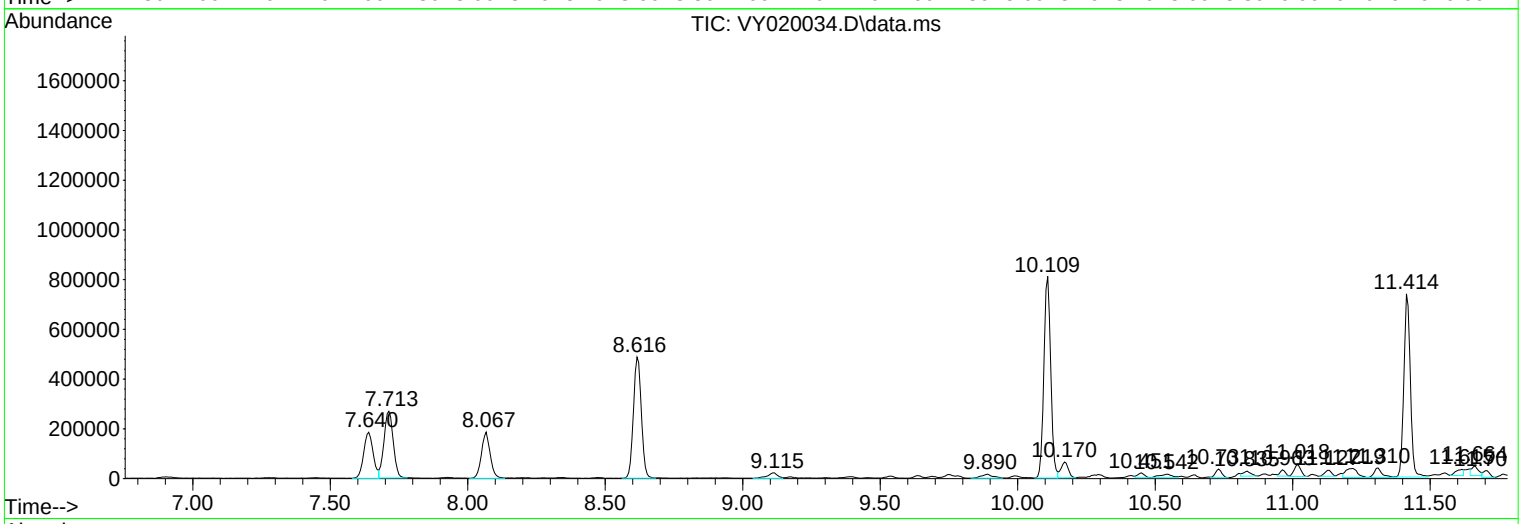
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Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

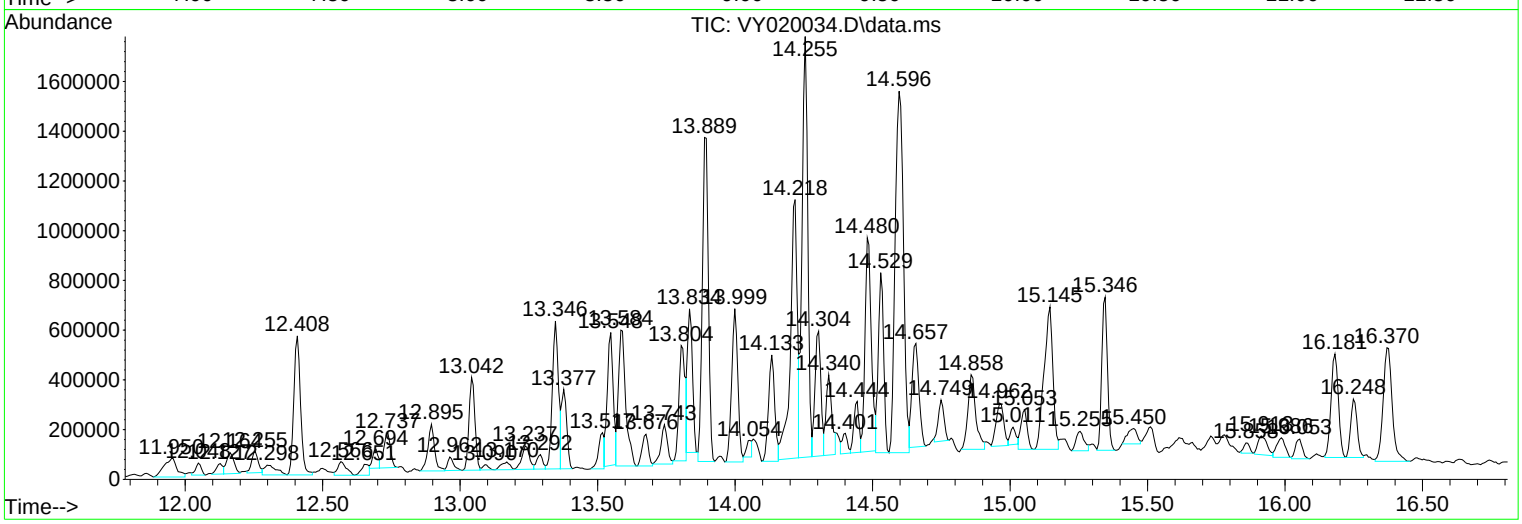
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

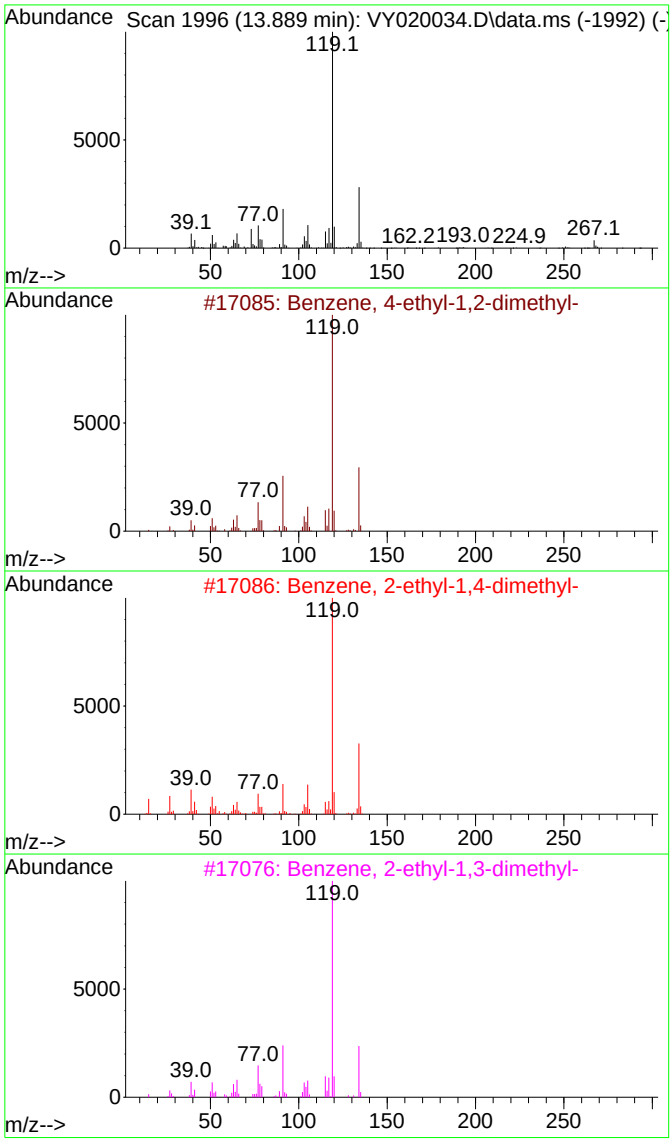
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Quant Title : SW846 8260

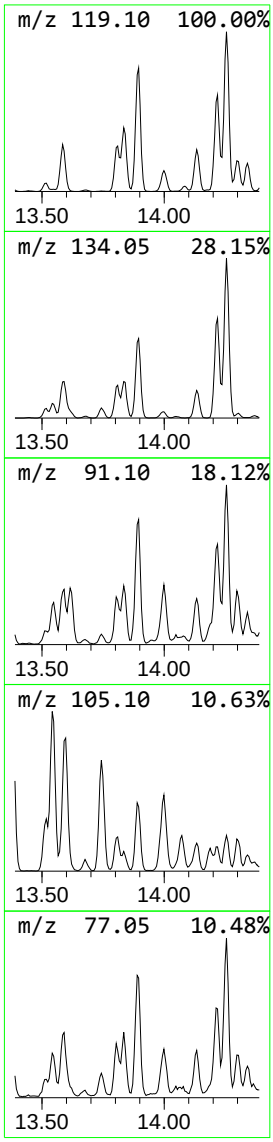
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	103.49 ug/l	1968530	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
3	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
4	o-Cymene	134	C10H14	000527-84-4	95
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

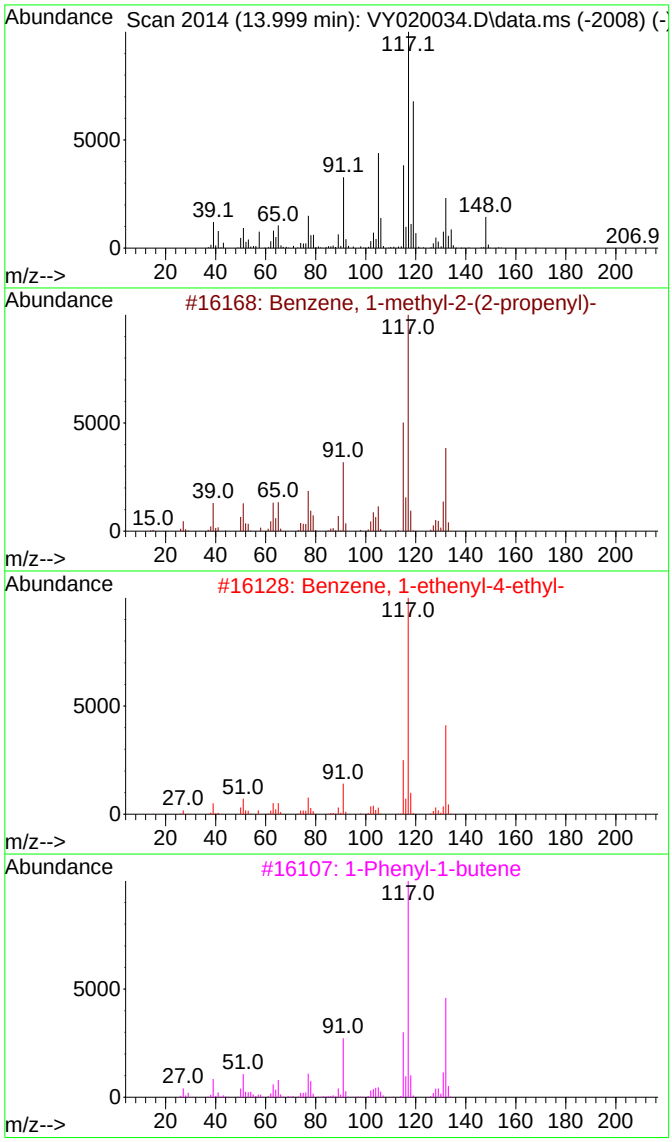
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Quant Title : SW846 8260

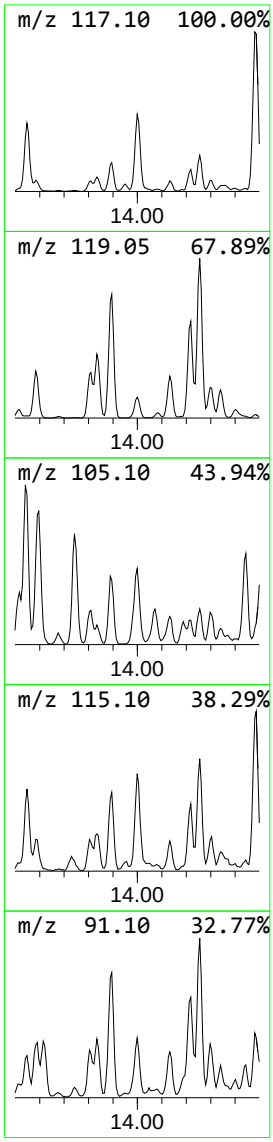
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Benzene, 1-methyl-2-(2-prop... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.999	50.53 ug/l	961247	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	86
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	70
3	1-Phenyl-1-butene	132	C10H12	000824-90-8	70
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	70
5	3-Phenylbut-1-ene	132	C10H12	000934-10-1	70





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

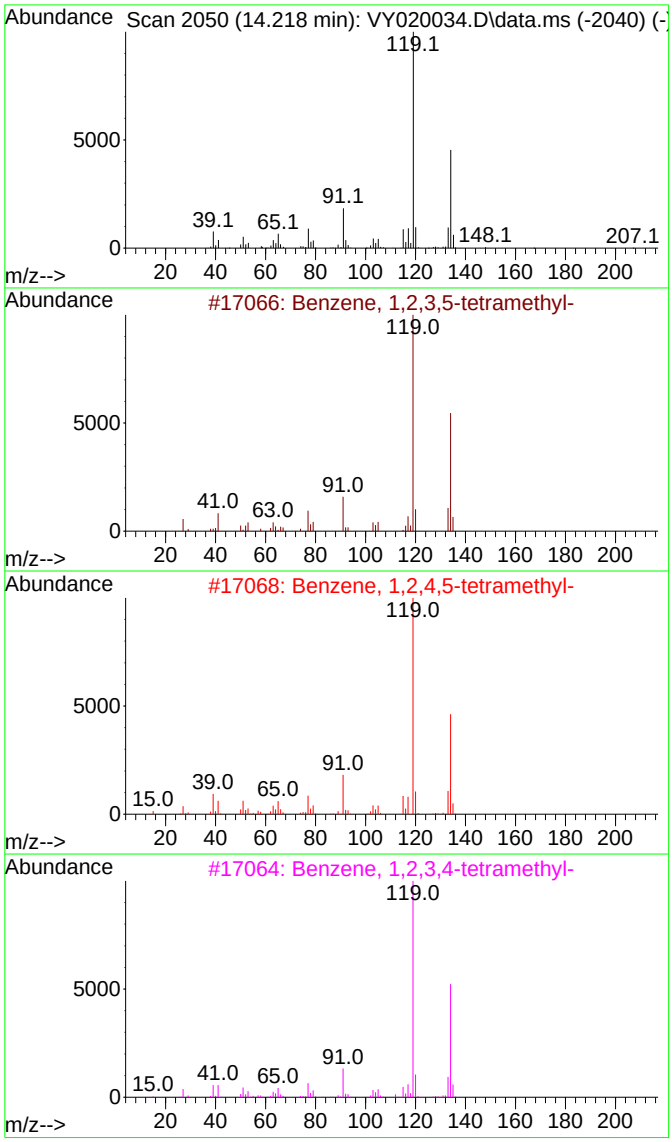
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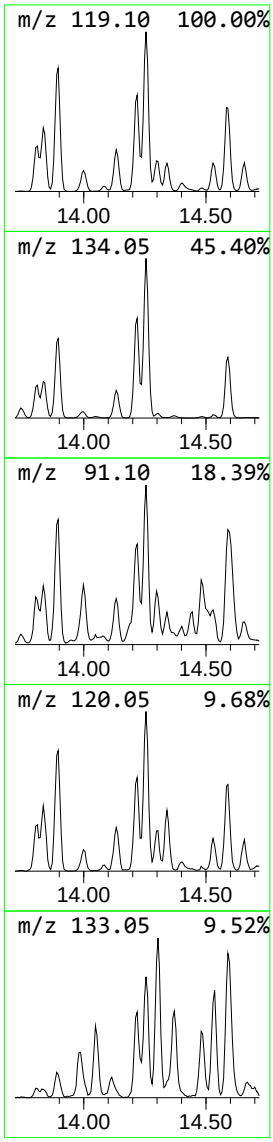
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.218	96.57 ug/l	1836870	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	97
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	93
5	o-Cymene	134	C10H14	000527-84-4	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

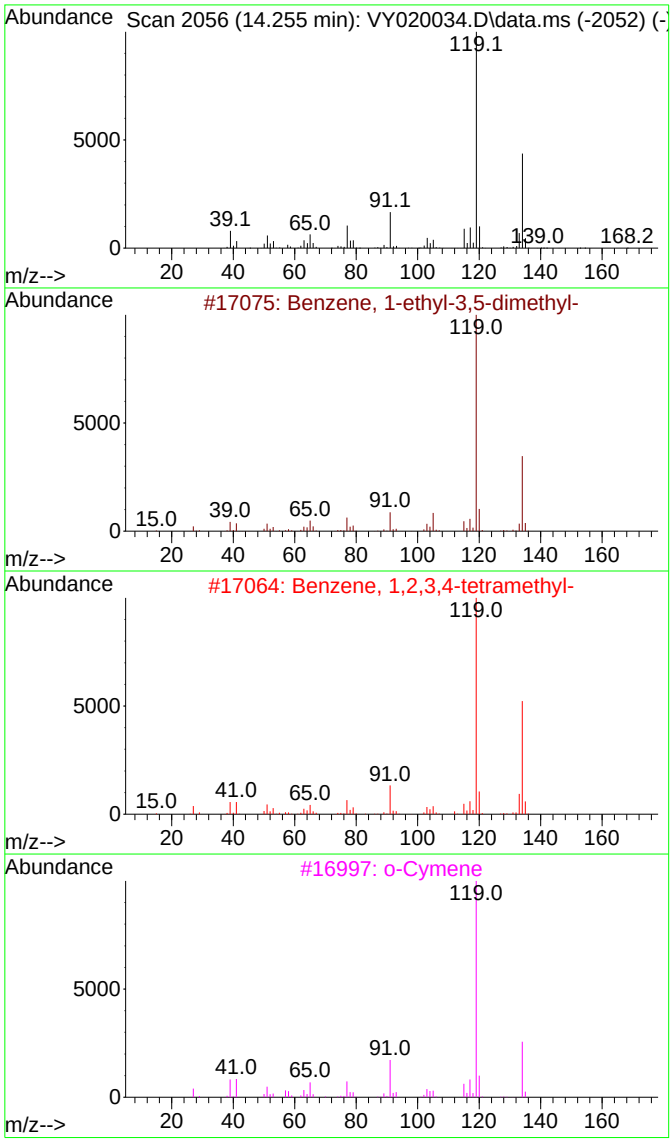
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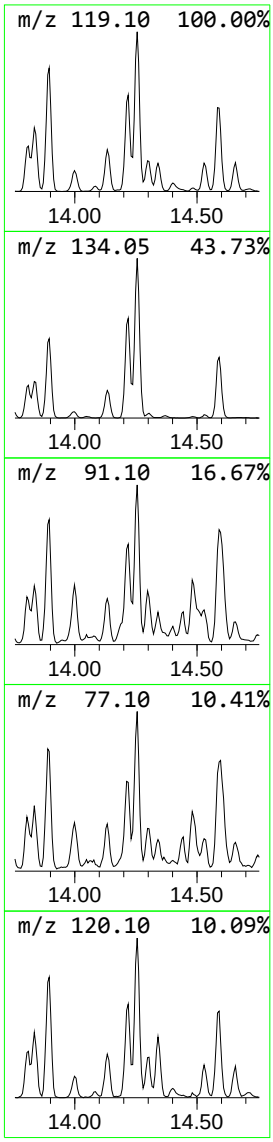
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.255	127.57 ug/l	2426610	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	95
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
3	o-Cymene	134	C10H14	000527-84-4	94
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

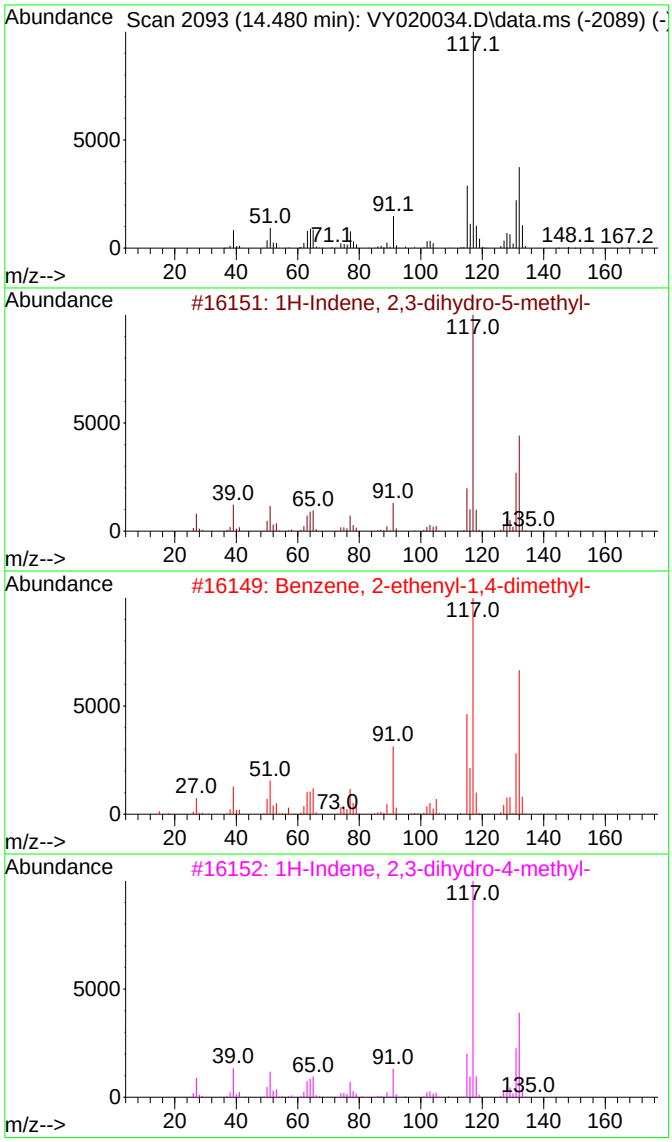
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
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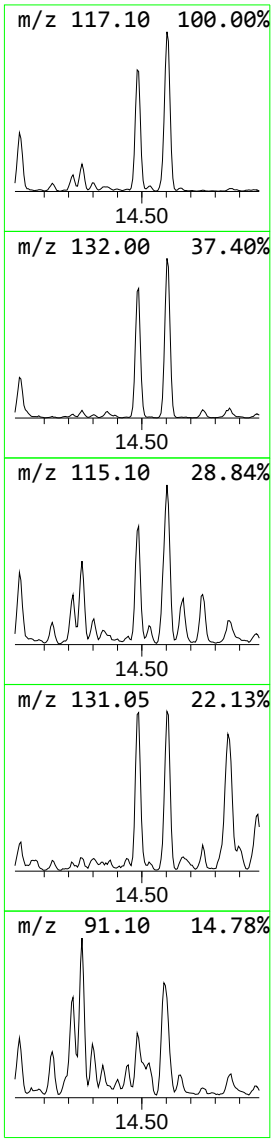
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.480	73.07 ug/l	1390000	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	95
2	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	94
4	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	93
5	3-Phenylbut-1-ene	132	C10H12	000934-10-1	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

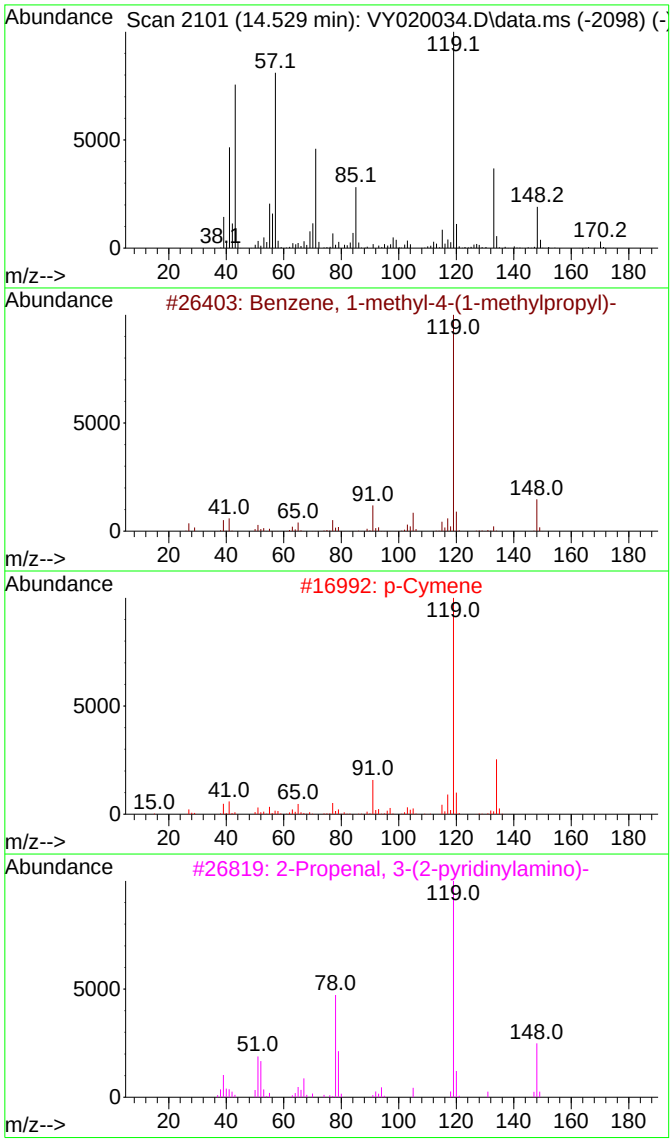
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TIC Integration Parameters: LSCINT.P

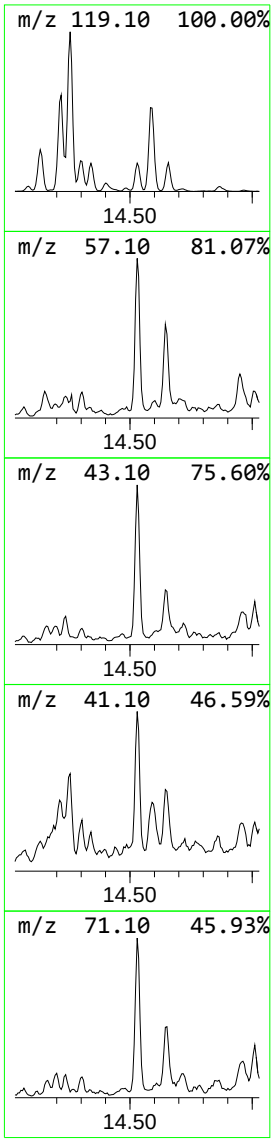
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Peak Number 6 unknown14.529 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	50.79 ug/l	966094	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	43
2	p-Cymene	134	C10H14	000099-87-6	42
3	2-Propenal, 3-(2-pyridinylamino)-	148	C8H8N2O	068970-82-1	38
4	Dodecane	170	C12H26	000112-40-3	38
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	30





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

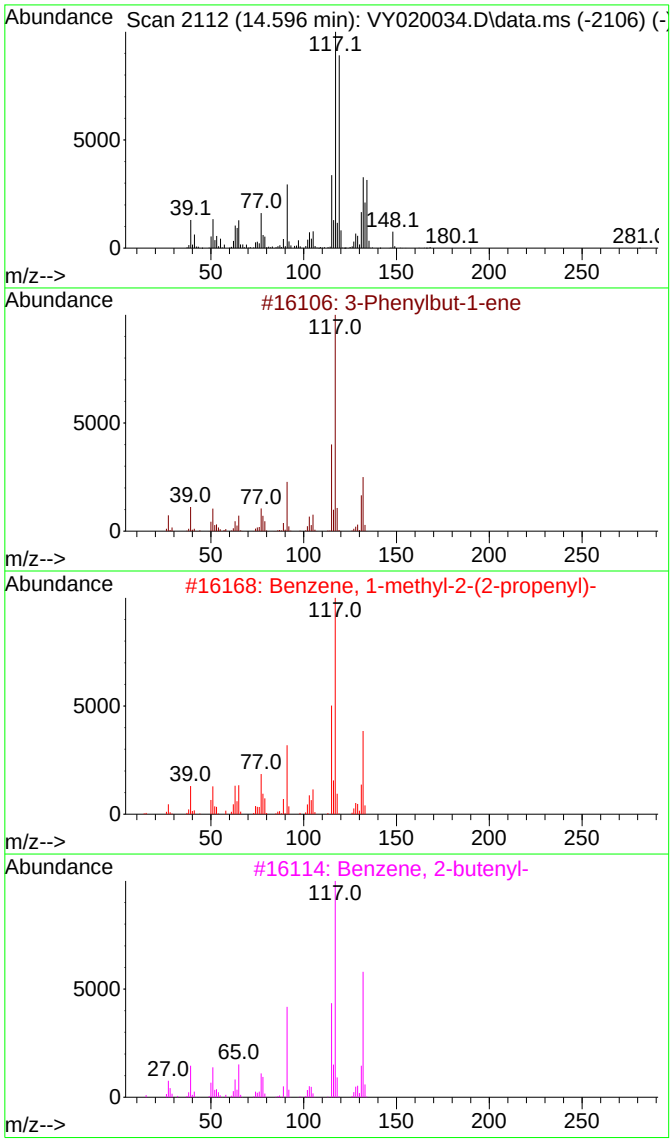
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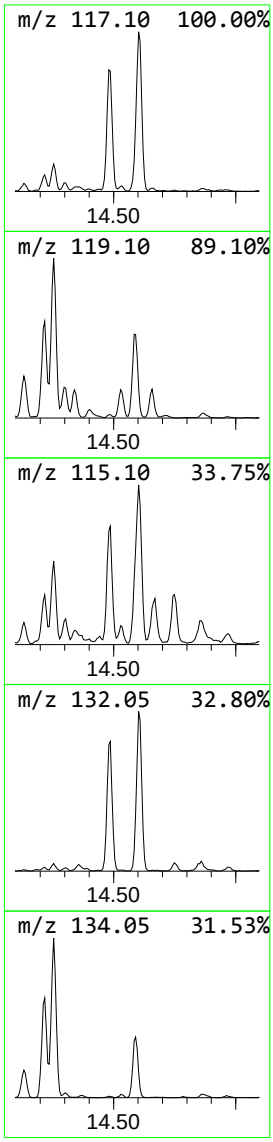
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 3-Phenylbut-1-ene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.596	162.05 ug/l	3082390	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Phenylbut-1-ene	132	C10H12	000934-10-1	87
2	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	83
3	Benzene, 2-butenyl-	132	C10H12	001560-06-1	70
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	55
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	55





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

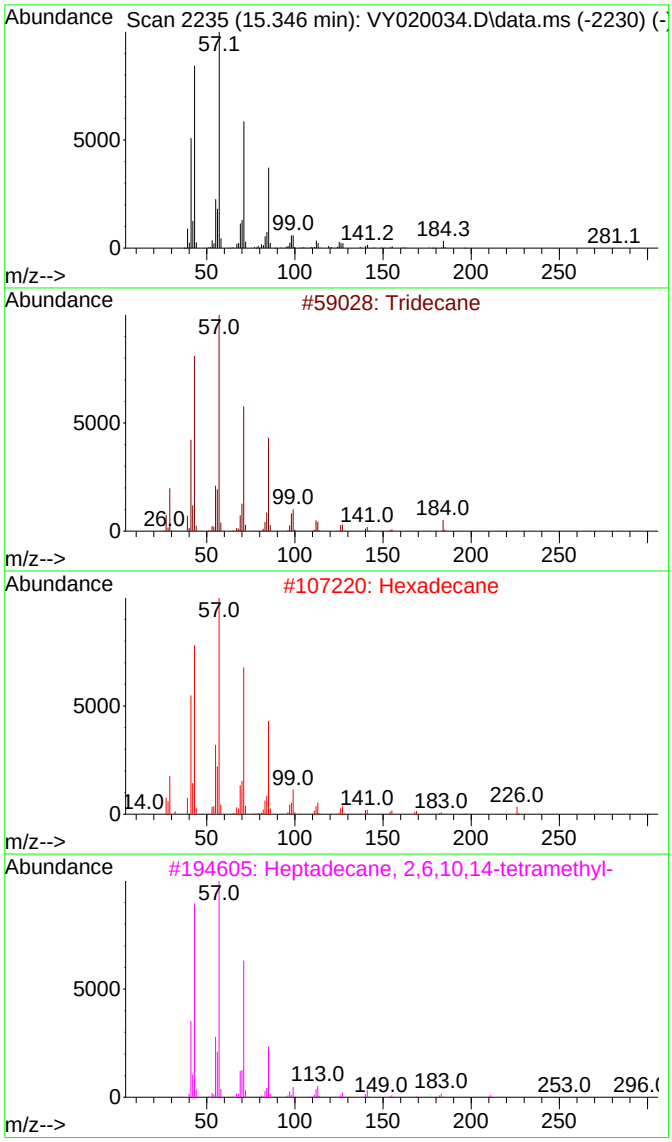
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

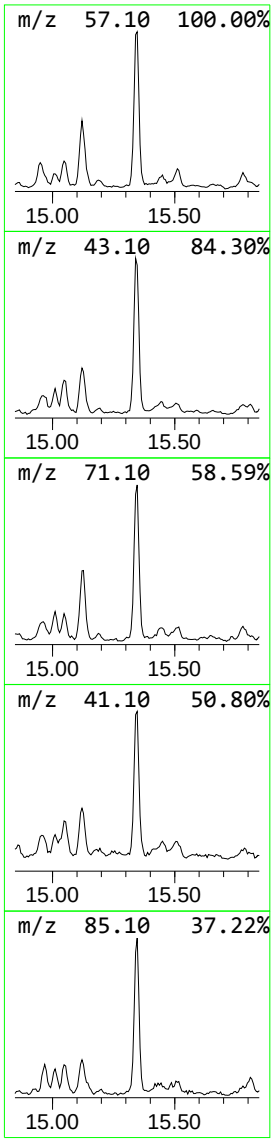
****

Peak Number 9 Tridecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	46.45 ug/l	883536	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	95
2	Hexadecane	226	C16H34	000544-76-3	91
3	Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	86
4	Sulfurous acid, 2-ethylhexyl iso...	278	C14H30O3S	1000309-19-0	80
5	1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Benzene, 4-ethy...	13.889	103.5	ug/l	1968530	4	13.346	951084	50.0
Benzene, 1-meth...	13.999	50.5	ug/l	961247	4	13.346	951084	50.0
Benzene, 1,2,3,...	14.218	96.6	ug/l	1836870	4	13.346	951084	50.0
Benzene, 1-ethy...	14.255	127.6	ug/l	2426610	4	13.346	951084	50.0
1H-Indene, 2,3-...	14.480	73.1	ug/l	1390000	4	13.346	951084	50.0
unknown14.529	14.529	50.8	ug/l	966094	4	13.346	951084	50.0
3-Phenylbut-1-ene	14.596	162.1	ug/l	3082390	4	13.346	951084	50.0
Tridecane	15.346	46.5	ug/l	883536	4	13.346	951084	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Quant Time: Oct 30 01:25:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

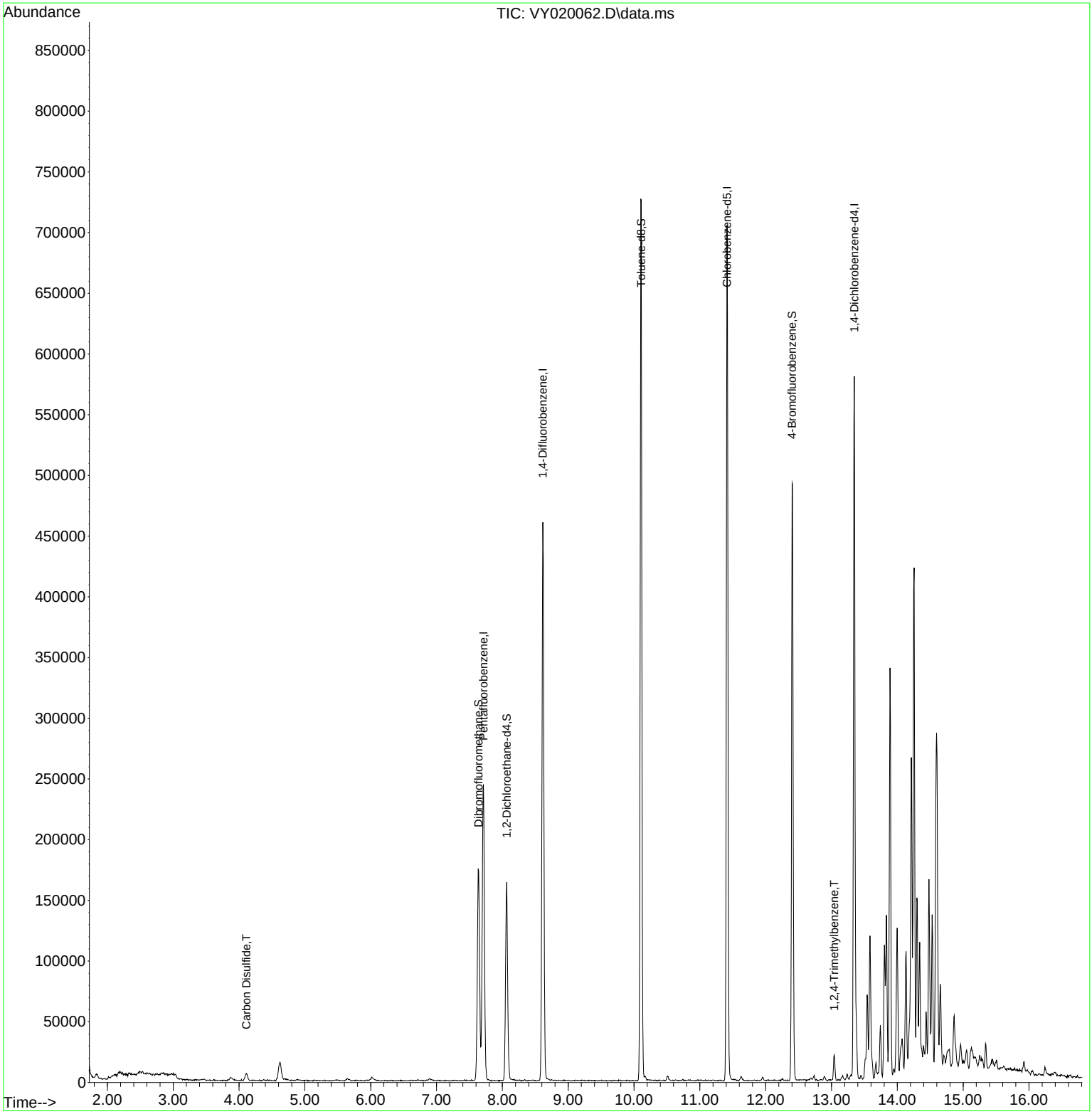
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	171253	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	364648	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	339109	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	127440	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.066	65	123360	58.502	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 117.000%			
35) Dibromofluoromethane	7.640	113	119069	49.483	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.960%			
50) Toluene-d8	10.109	98	453335	51.017	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.040%			
62) 4-Bromofluorobenzene	12.401	95	140581	43.784	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 87.560%			
Target Compounds						Qvalue
17) Carbon Disulfide	4.110	76	11166	2.267	ug/l	96
84) 1,2,4-Trimethylbenzene	13.041	105	10287	1.199	ug/l	96

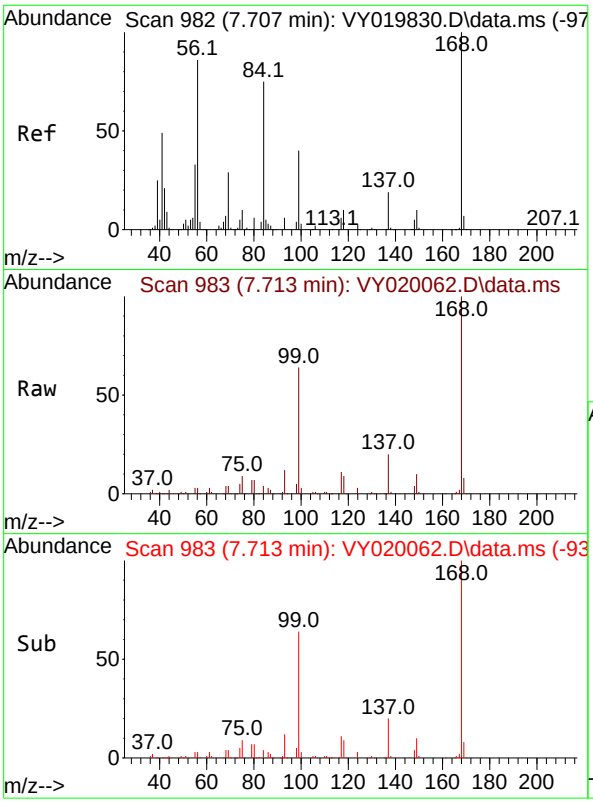
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Quant Time: Oct 30 01:25:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



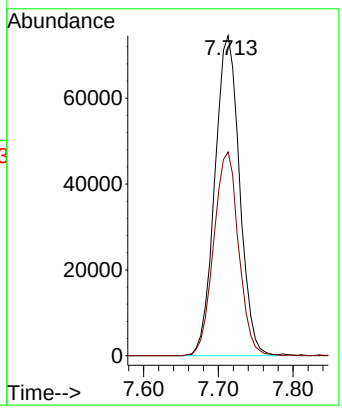


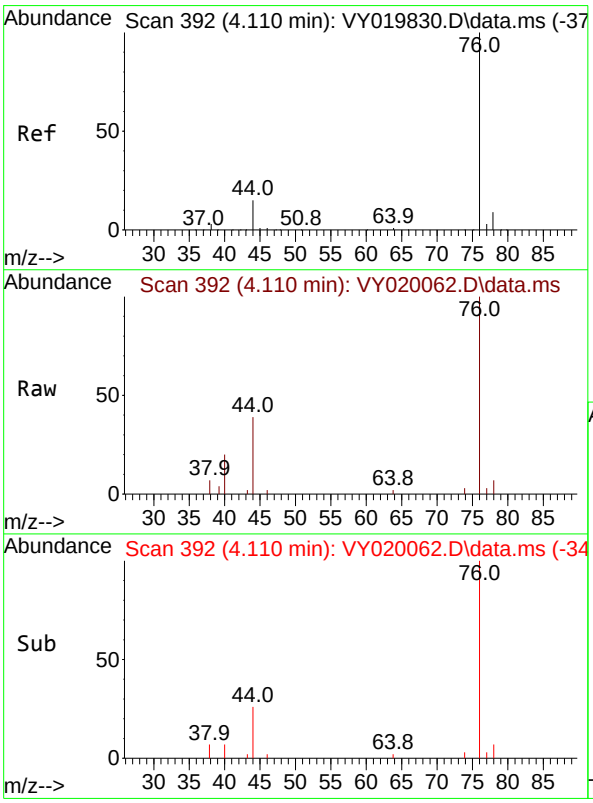
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Tgt Ion:168 Resp: 171253

Ion	Ratio	Lower	Upper
168	100		
99	63.7	39.1	58.7#

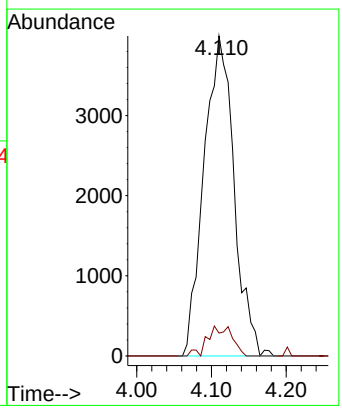


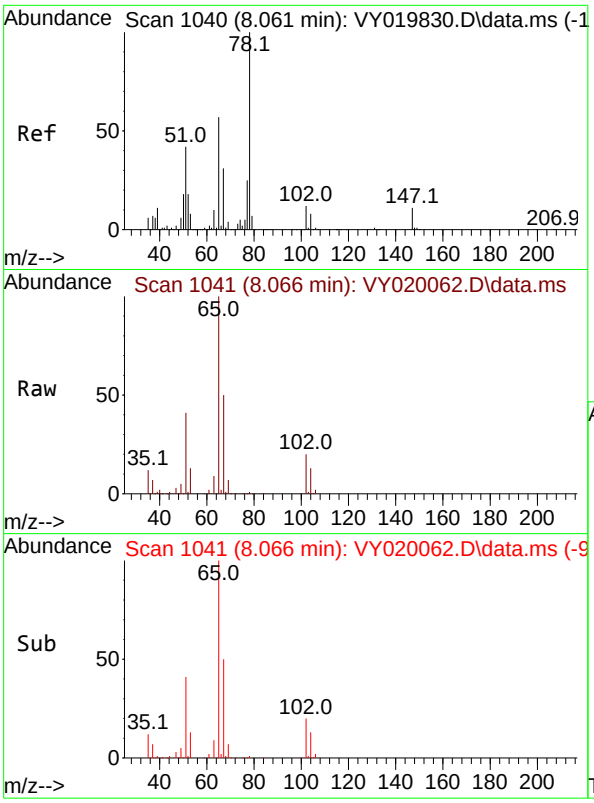


#17
Carbon Disulfide
Concen: 2.267 ug/l
RT: 4.110 min Scan# 392
Delta R.T. 0.006 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Tgt Ion: 76 Resp: 11166

Ion	Ratio	Lower	Upper
76	100		
78	7.2	6.8	10.2



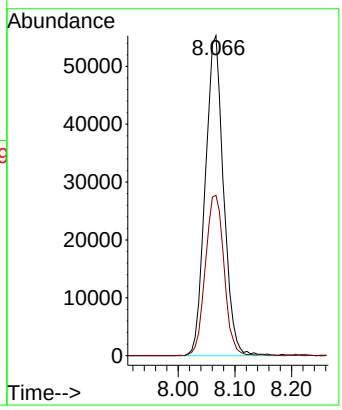


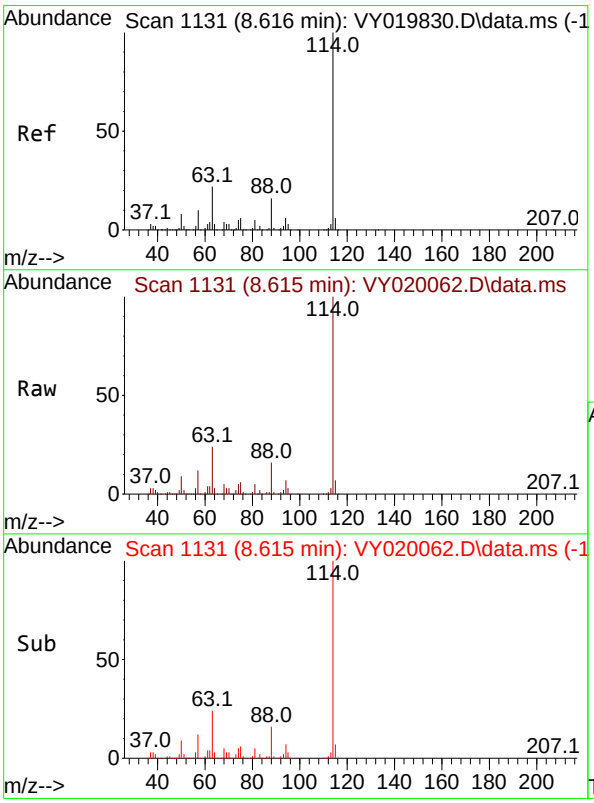
#33
1,2-Dichloroethane-d4
Concen: 58.502 ug/l
RT: 8.066 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Tgt Ion: 65 Resp: 123360

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	109.6

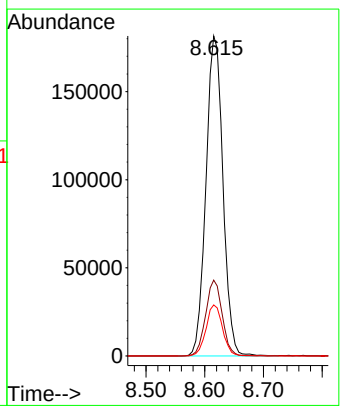


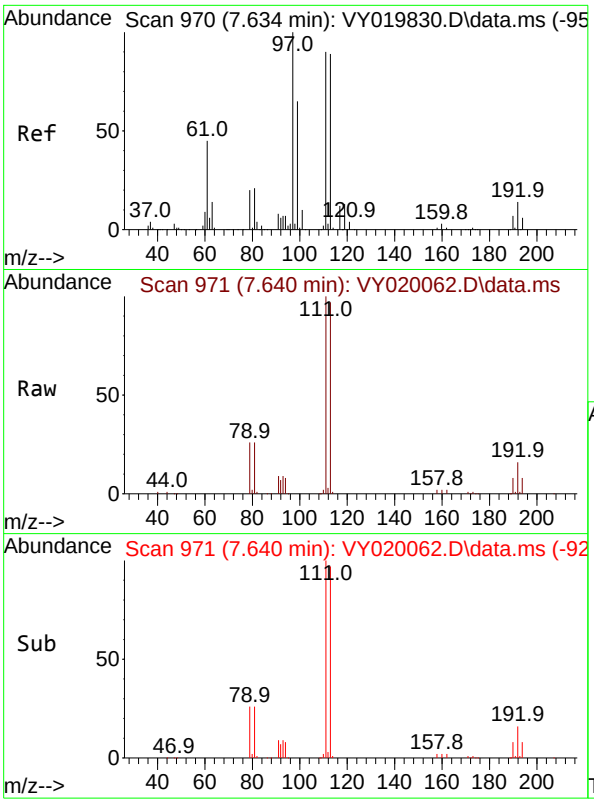


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Tgt Ion:114 Resp: 364648

Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	35.0
88	15.9	0.0	27.2



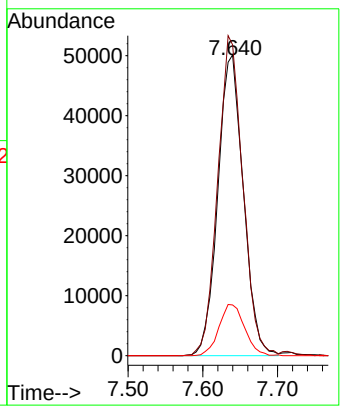


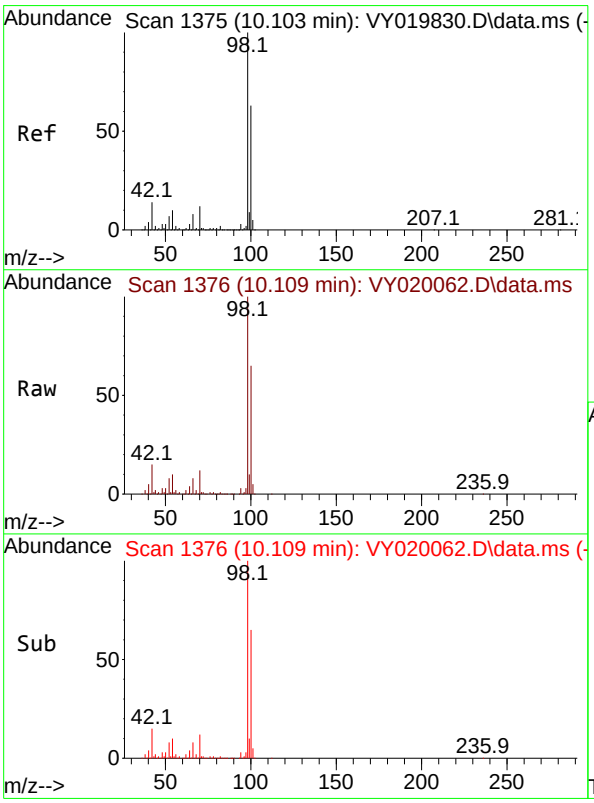
#35
Dibromofluoromethane
Concen: 49.483 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Tgt Ion:113 Resp: 119069

Ion	Ratio	Lower	Upper
113	100		
111	104.4	82.2	123.4
192	17.2	15.9	23.9

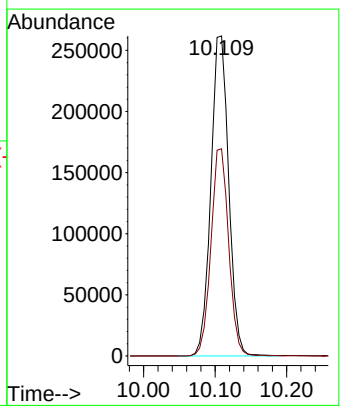


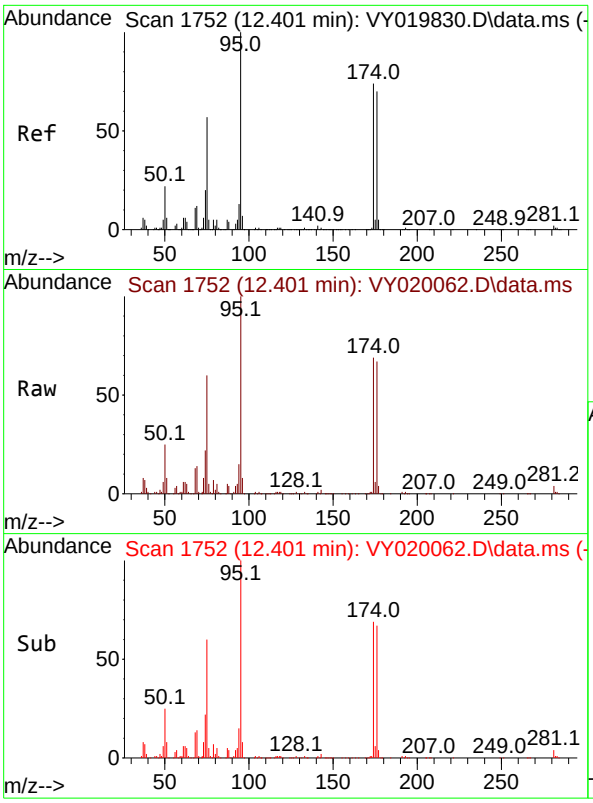


#50
Toluene-d8
Concen: 51.017 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Tgt Ion: 98 Resp: 453335

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.0	78.0



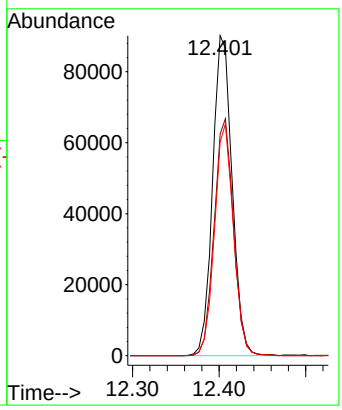


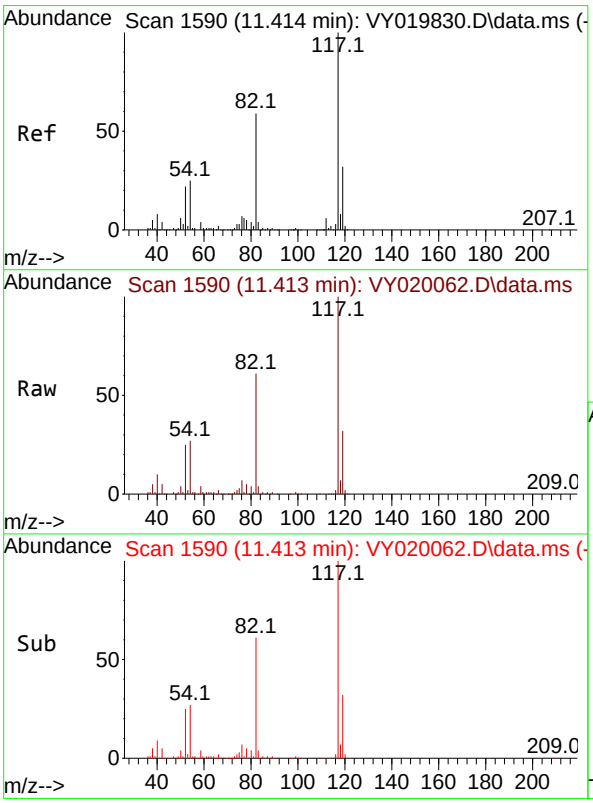
#62
4-Bromofluorobenzene
Concen: 43.784 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Tgt Ion: 95 Resp: 140581

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	175.6
176	70.5	0.0	171.4

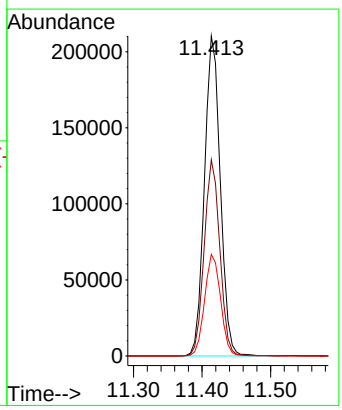


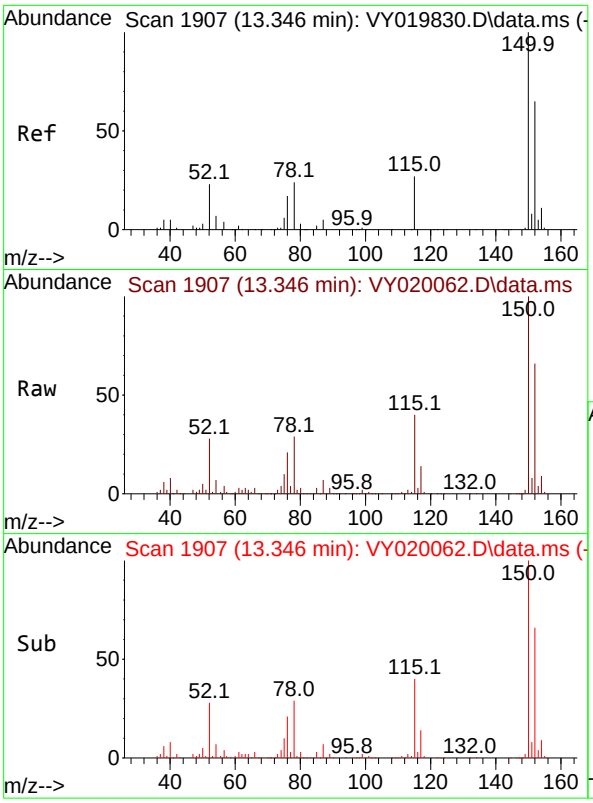


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Tgt Ion:117 Resp: 339109

Ion	Ratio	Lower	Upper
117	100		
82	61.3	42.4	63.6
119	31.8	25.9	38.9



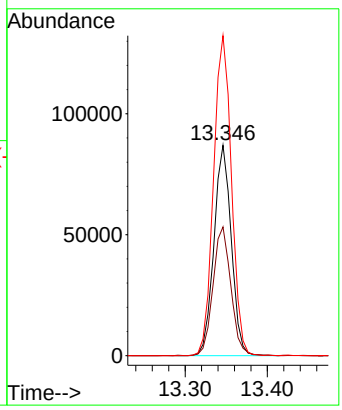


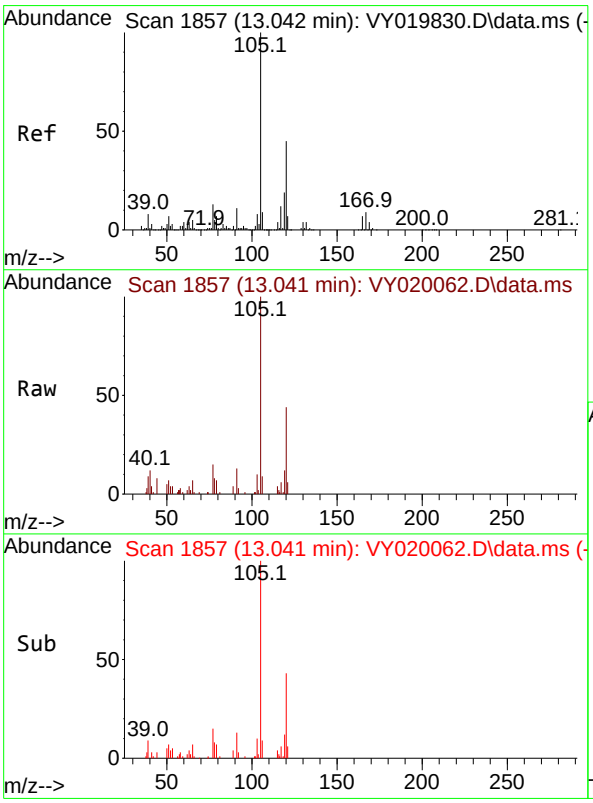
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Tgt Ion:152 Resp: 127440

Ion	Ratio	Lower	Upper
152	100		
115	63.1	28.2	84.7
150	157.2	0.0	345.6

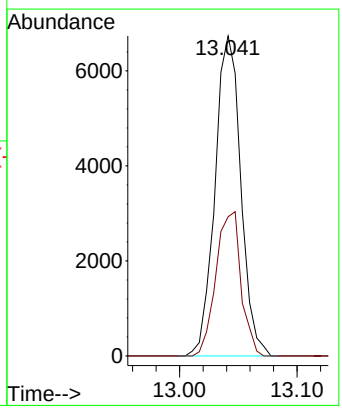




#84
1,2,4-Trimethylbenzene
Concen: 1.199 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Tgt Ion:105 Resp: 10287

Ion	Ratio	Lower	Upper
105	100		
120	43.8	23.2	69.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

Signal : TIC: VY020062.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.110	383	392	401	rBV	6017	16420	1.30%	0.150%
2	4.622	464	476	485	rBV2	15562	51414	4.06%	0.469%
3	7.634	959	970	976	rBV	174433	408990	32.31%	3.730%
4	7.713	976	983	994	rVB	243381	570947	45.10%	5.207%
5	8.066	1032	1041	1056	rBV	163398	359316	28.39%	3.277%
6	8.615	1121	1131	1141	rBV	459907	913626	72.17%	8.332%
7	10.103	1367	1375	1383	rBV	726501	1265857	100.00%	11.545%
8	11.413	1582	1590	1602	rBV	704990	1147760	90.67%	10.468%
9	12.401	1745	1752	1763	rBV2	492186	828906	65.48%	7.560%
10	13.041	1852	1857	1864	rVB2	21157	33910	2.68%	0.309%
11	13.346	1900	1907	1918	rVB	578277	952557	75.25%	8.687%
12	13.541	1935	1939	1942	rBV2	52910	67909	5.36%	0.619%
13	13.584	1942	1946	1955	rVB2	117371	208712	16.49%	1.903%
14	13.675	1955	1961	1965	rBV6	12976	21320	1.68%	0.194%
15	13.742	1967	1972	1977	rVB	42318	62855	4.97%	0.573%
16	13.803	1977	1982	1984	rBV	108302	155720	12.30%	1.420%
17	13.834	1984	1987	1991	rVV	128907	183395	14.49%	1.673%
18	13.889	1991	1996	2002	rVB2	334967	508413	40.16%	4.637%
19	13.998	2008	2014	2019	rBV2	118706	191933	15.16%	1.750%
20	14.072	2019	2026	2031	rBV4	26497	65543	5.18%	0.598%
21	14.132	2031	2036	2040	rVV	96245	146658	11.59%	1.338%
22	14.212	2040	2049	2052	rVV	254407	436821	34.51%	3.984%
23	14.254	2052	2056	2060	rVV	409198	599032	47.32%	5.463%
24	14.297	2060	2063	2067	rVV2	136444	207593	16.40%	1.893%
25	14.340	2067	2070	2077	rVV	98620	144910	11.45%	1.322%
26	14.395	2077	2079	2083	rVV2	11929	17518	1.38%	0.160%
27	14.437	2083	2086	2089	rVV	39219	47998	3.79%	0.438%
28	14.480	2089	2093	2097	rVV	147482	214152	16.92%	1.953%
29	14.529	2097	2101	2106	rVB	121193	169473	13.39%	1.546%
30	14.596	2106	2112	2118	rBV2	270823	584351	46.16%	5.329%
31	14.651	2118	2121	2127	rVB	65739	102440	8.09%	0.934%
32	14.767	2135	2140	2141	rBV5	8712	13684	1.08%	0.125%
33	14.864	2150	2156	2166	rVB2	41558	90485	7.15%	0.825%
34	14.962	2166	2172	2177	rBV5	18017	35005	2.77%	0.319%
35	15.053	2181	2187	2192	rVB6	15102	32331	2.55%	0.295%
36	15.126	2192	2199	2200	rBV5	17393	32008	2.53%	0.292%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

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38	15.340	2230	2234	2240	rVB3	20479	29942	2.37%	0.273%
39	15.925	2325	2330	2335	rBV7	8675	15905	1.26%	0.145%
40	16.242	2378	2382	2389	rBV8	7232	13313	1.05%	0.121%

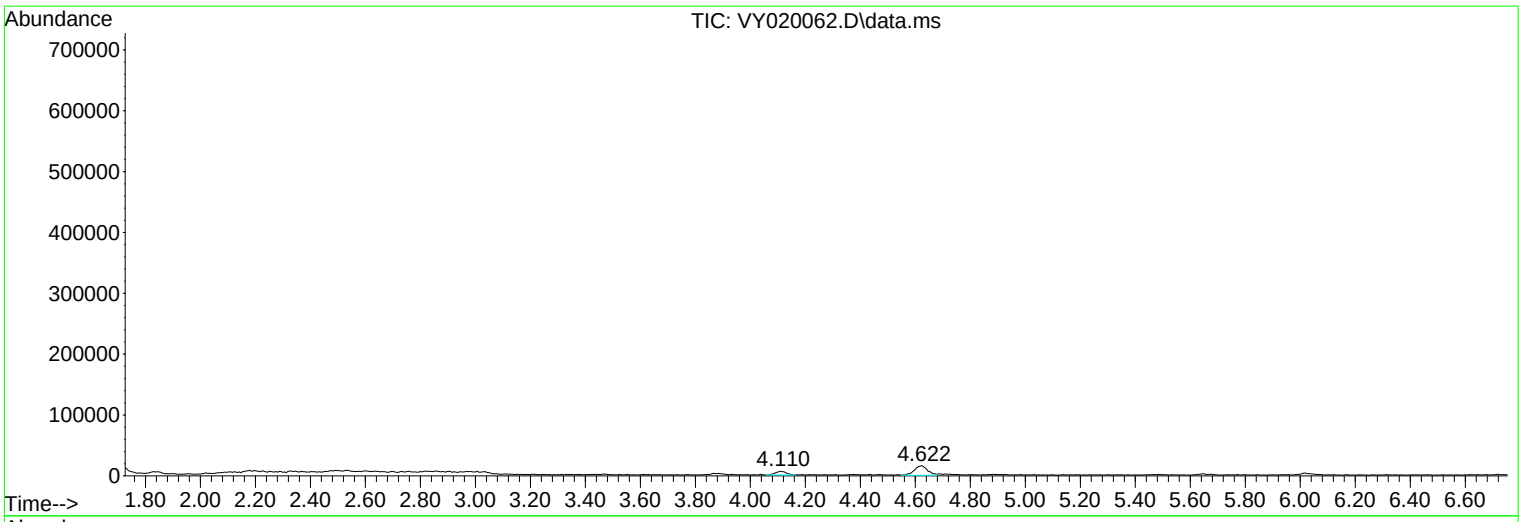
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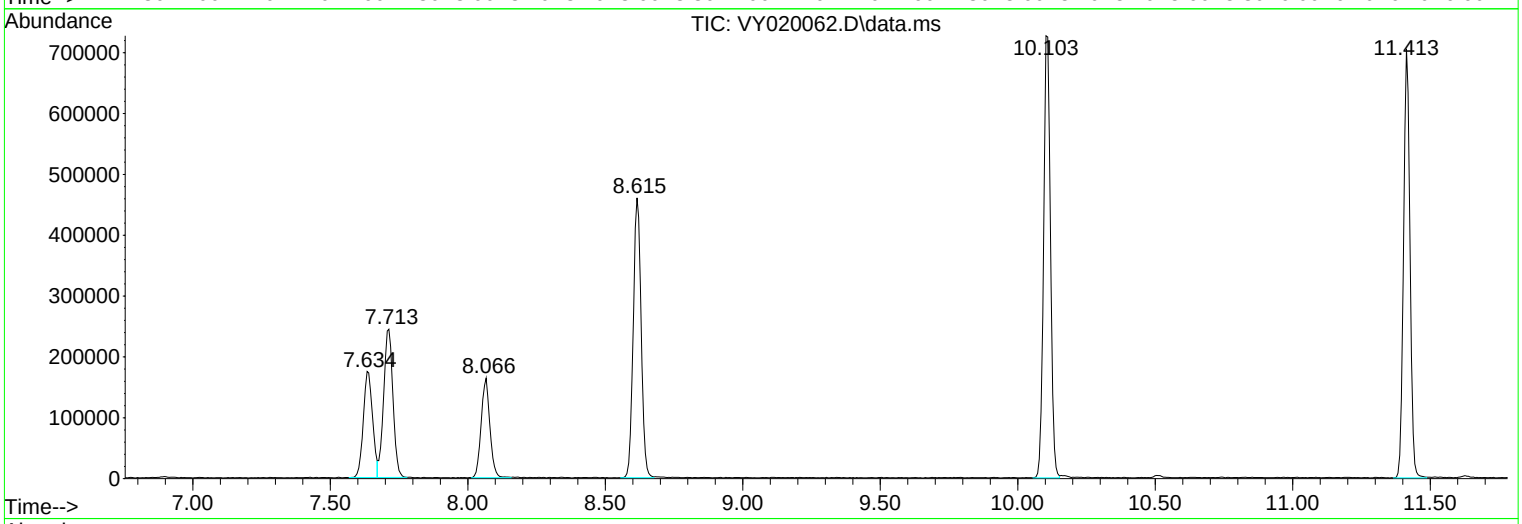
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Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

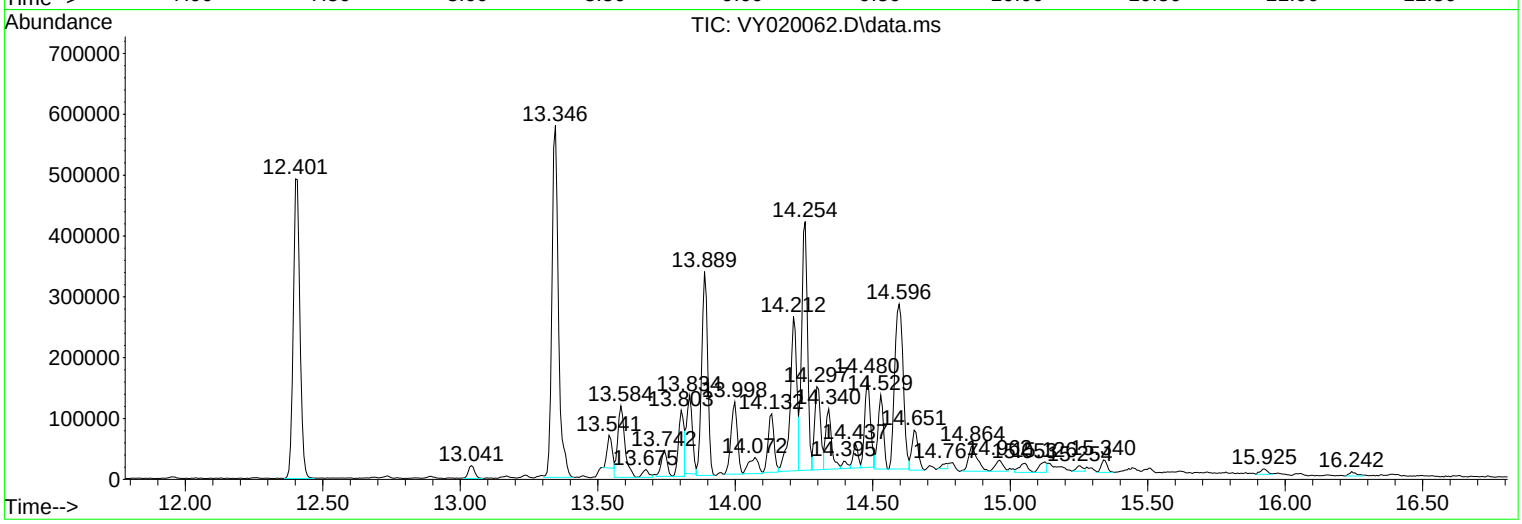
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ClientSampleId :
WB-305-BOT

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Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
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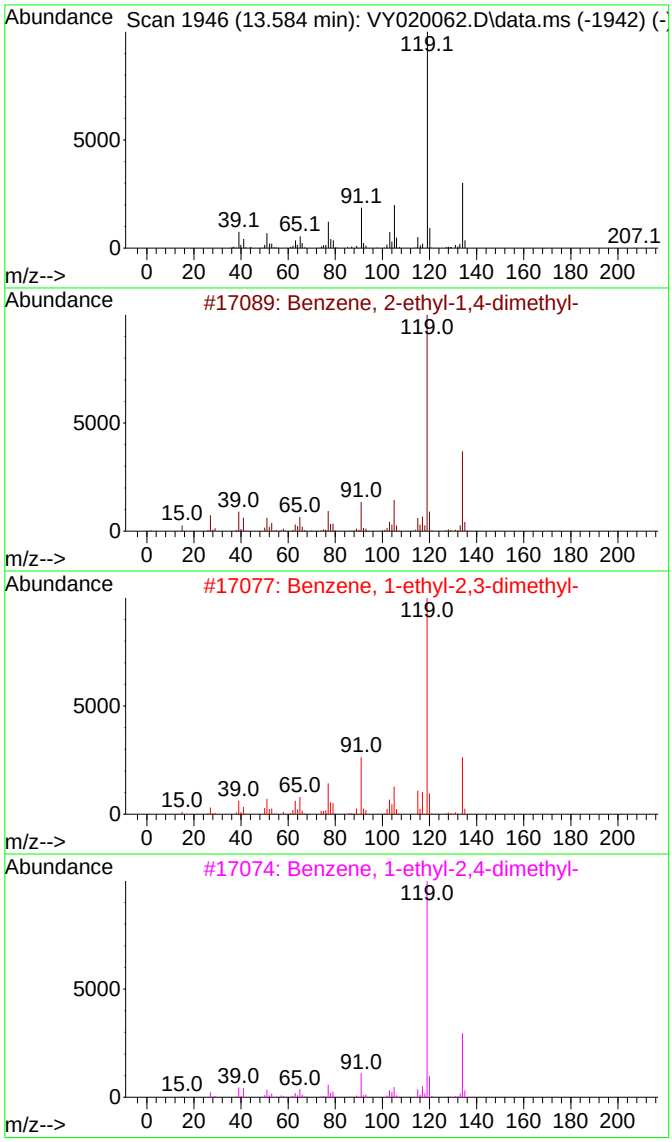
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Quant Title : SW846 8260

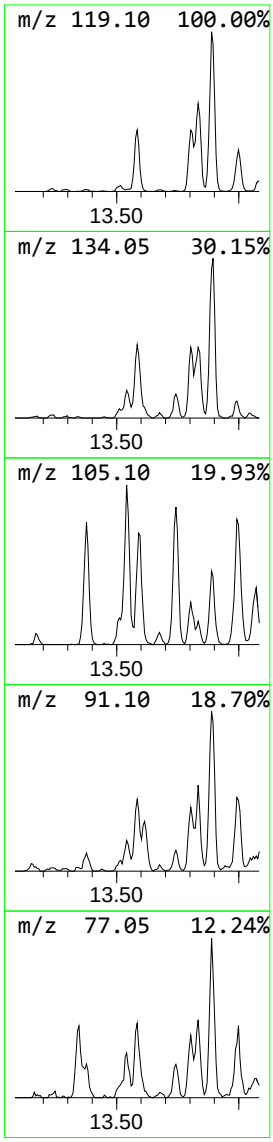
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TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.584	10.96 ug/l	208712	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	83
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	83
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	83
5	o-Cymene	134	C10H14	000527-84-4	81





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

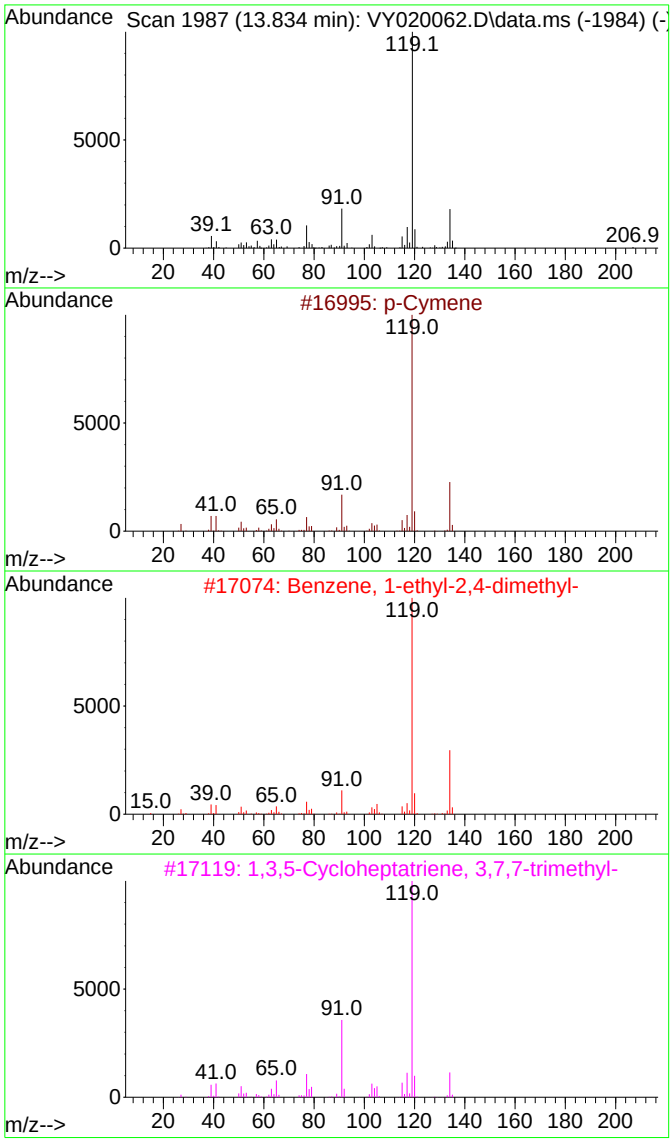
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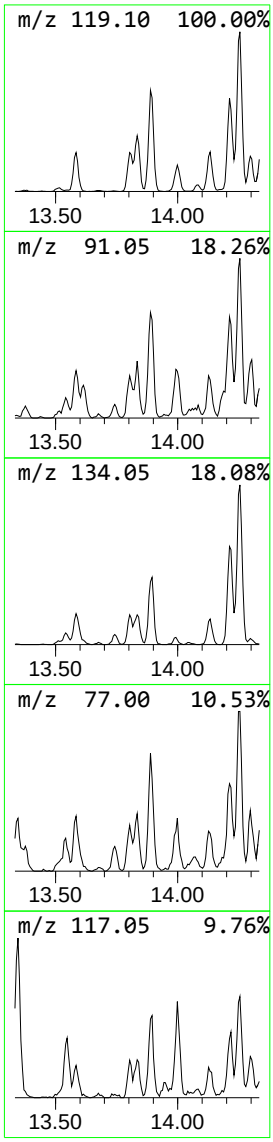
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Peak Number 2 p-Cymene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.834	9.63 ug/l	183395	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	91
2	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91
3	1,3,5-Cycloheptatriene, 3,7,7-tr...	134	C10H14	003479-89-8	91
4	o-Cymene	134	C10H14	000527-84-4	91
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

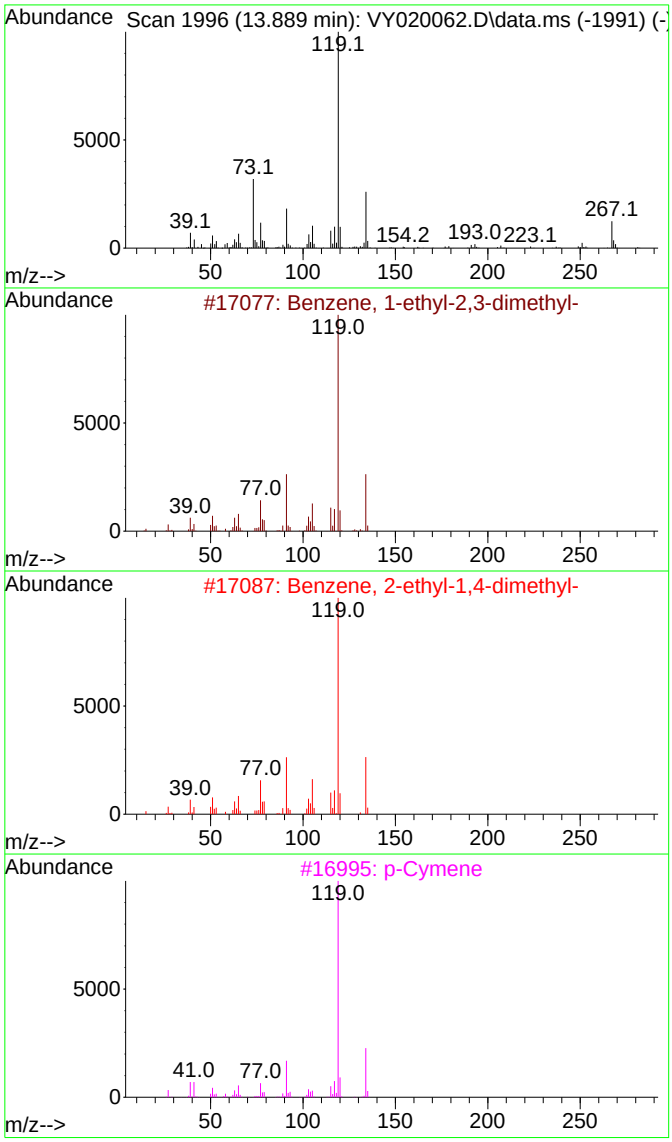
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Quant Title : SW846 8260

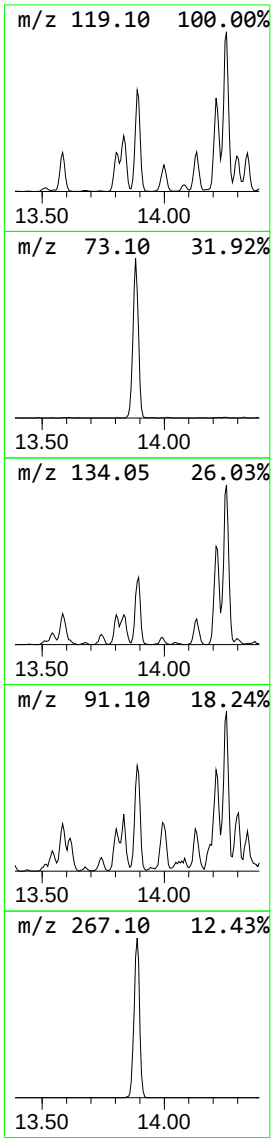
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	26.69 ug/l	508413	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
3	p-Cymene	134	C10H14	000099-87-6	95
4	o-Cymene	134	C10H14	000527-84-4	95
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

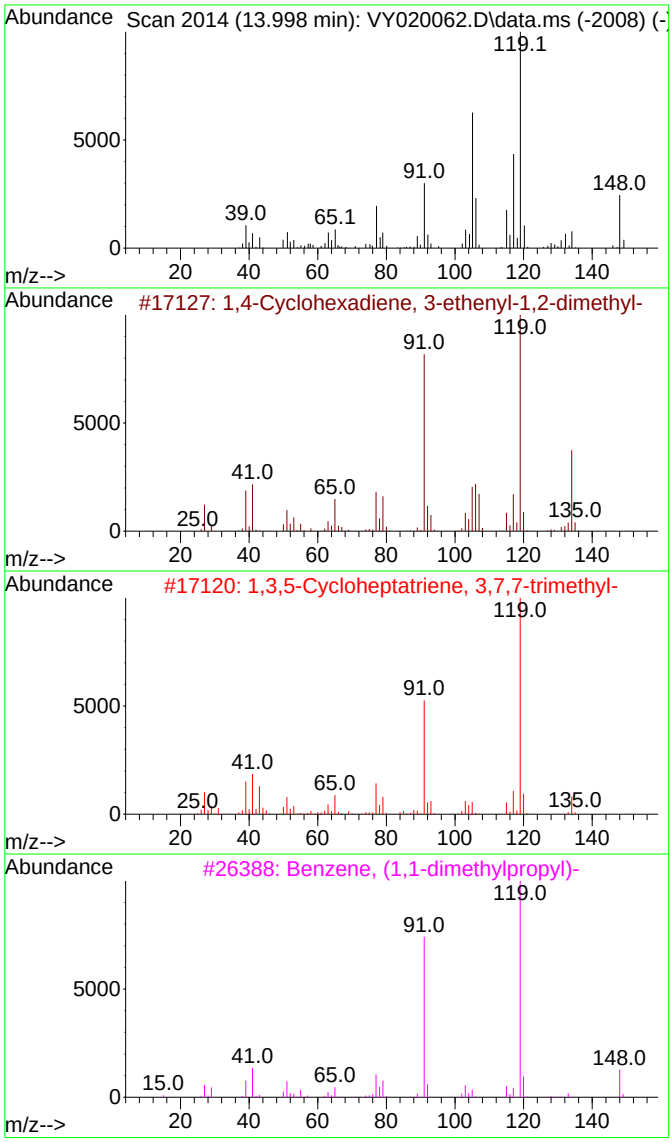
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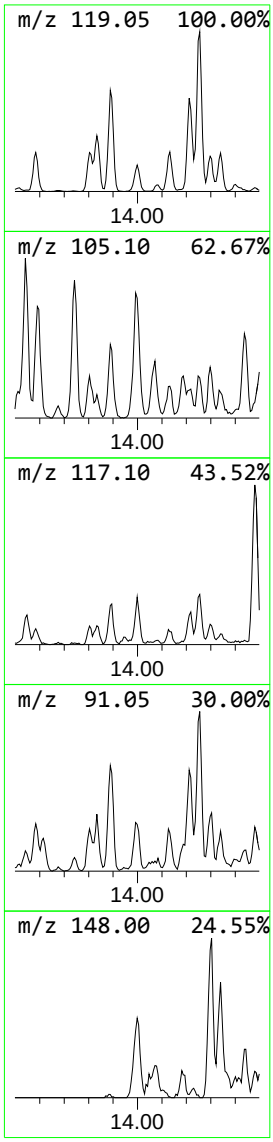
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 1,4-Cyclohexadiene, 3-ethen... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.998	10.07 ug/l	191933	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Cyclohexadiene, 3-ethenyl-1,...	134	C10H14	062338-57-2	53
2	1,3,5-Cycloheptatriene, 3,7,7-tr...	134	C10H14	003479-89-8	49
3	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	49
4	4'-Methylpropiophenone	148	C10H12O	005337-93-9	43
5	Cumene hydroperoxide, TMS deriva...	224	C12H20O2Si	018057-16-4	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

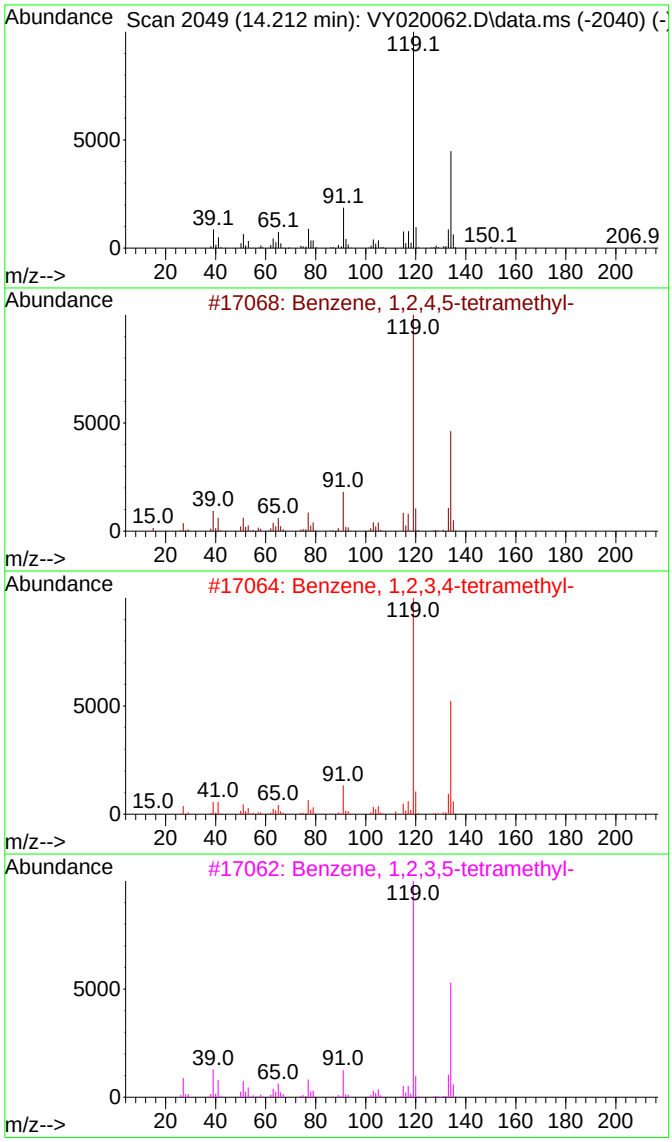
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Quant Title : SW846 8260

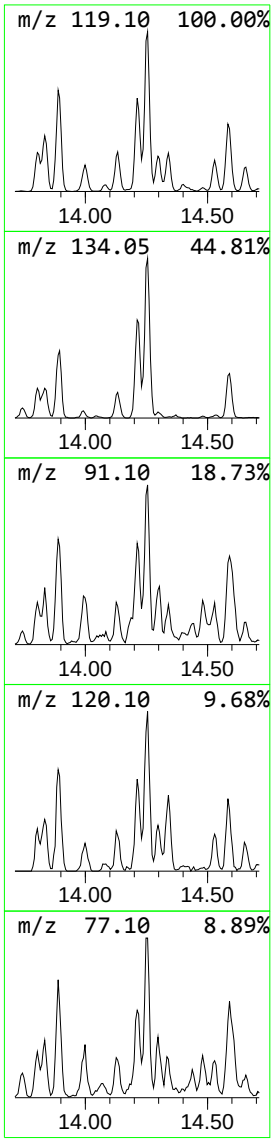
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.212	22.93 ug/l	436821	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
4	o-Cymene	134	C10H14	000527-84-4	94
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

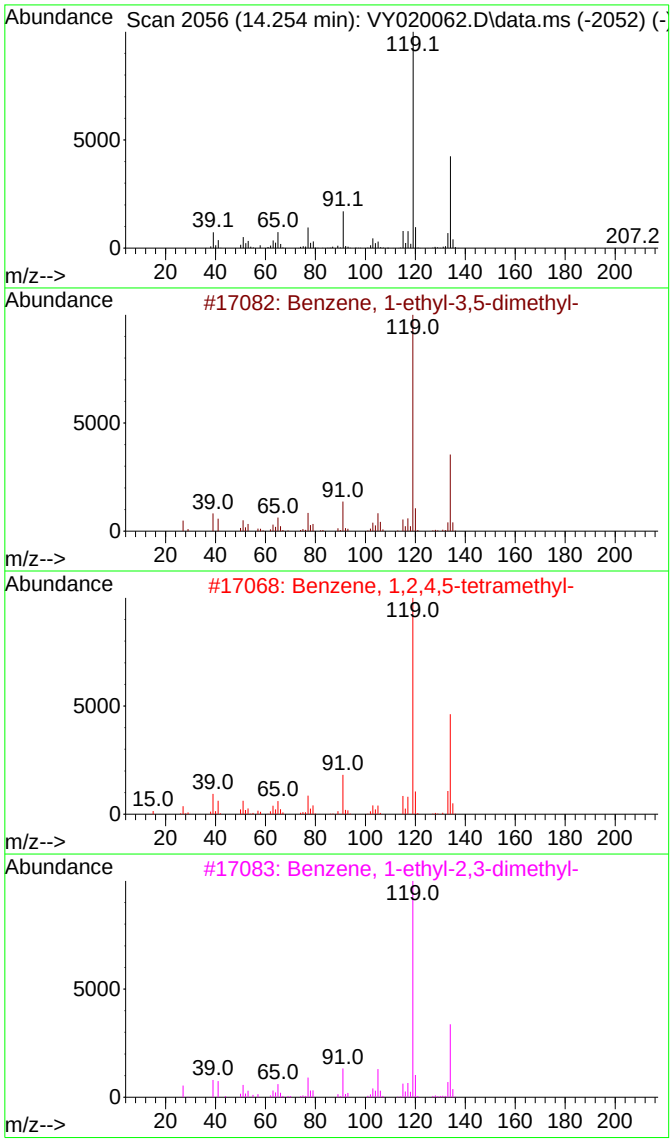
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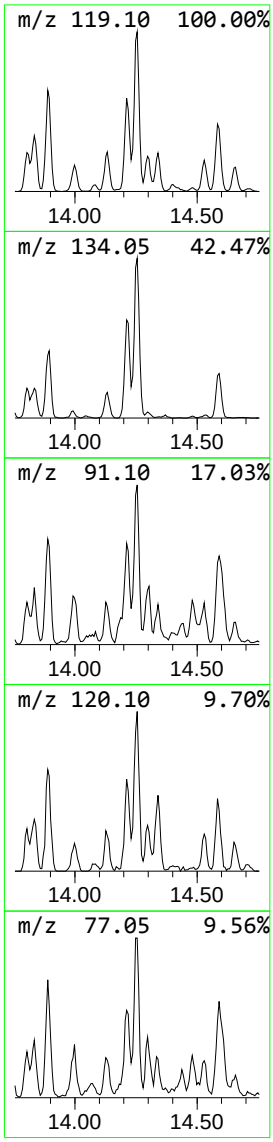
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.254	31.44 ug/l	599032	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	94
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	93
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

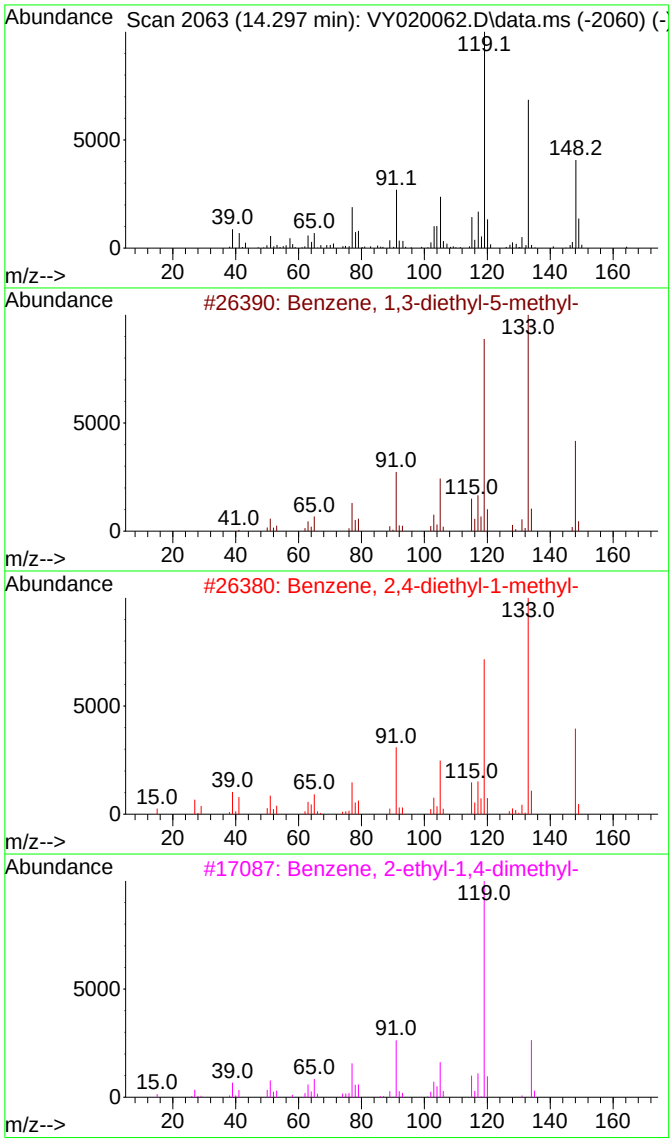
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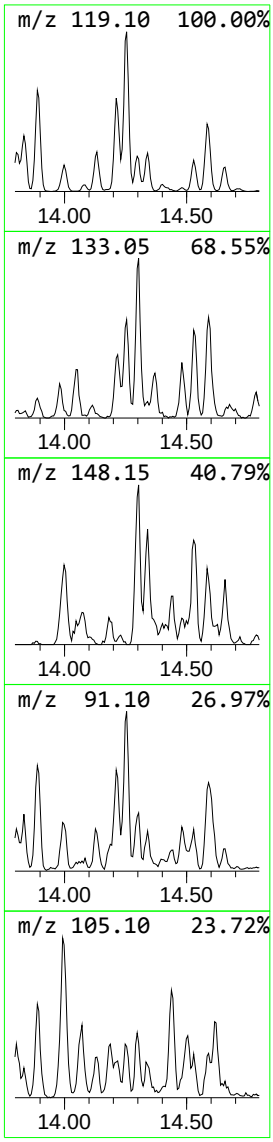
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.297	10.90 ug/l	207593	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	89
2	Benzene, 2,4-diethyl-1-methyl-	148	C11H16	001758-85-6	64
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	49
4	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	49
5	Propiophenone, 2'-methyl-	148	C10H12O	002040-14-4	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

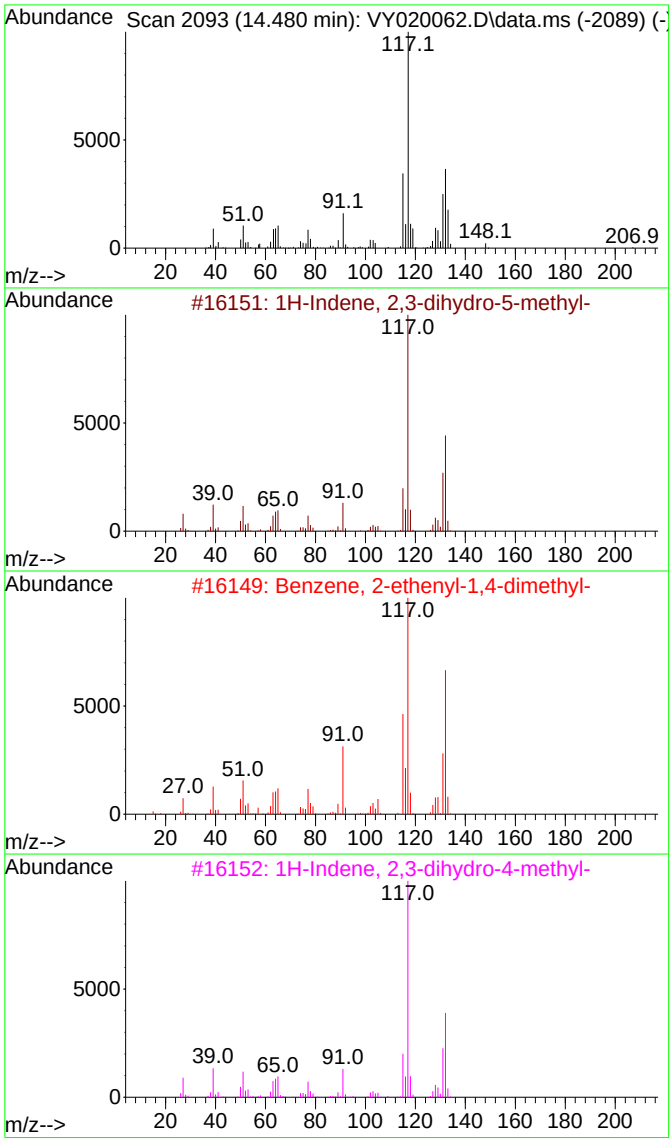
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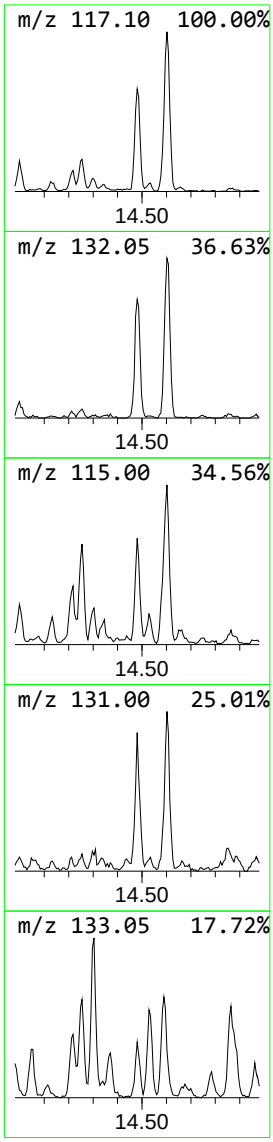
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.480	11.24 ug/l	214152	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	95
2	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	81
4	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	76
5	Cyclopropane, 1-methyl-1-phenyl-	132	C10H12	002214-14-4	74





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

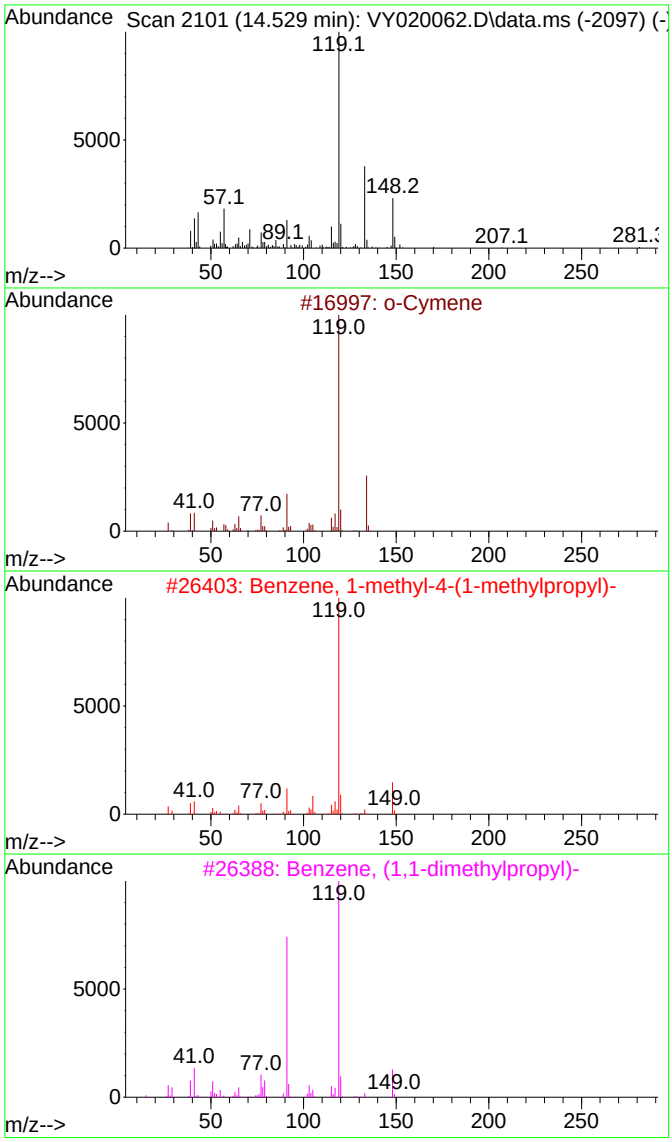
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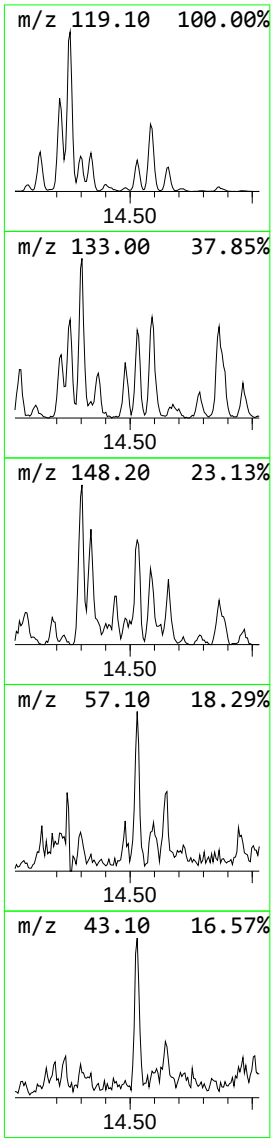
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Peak Number 9 o-Cymene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	8.90 ug/l	169473	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	70
2	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	64
3	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	59
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	58
5	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

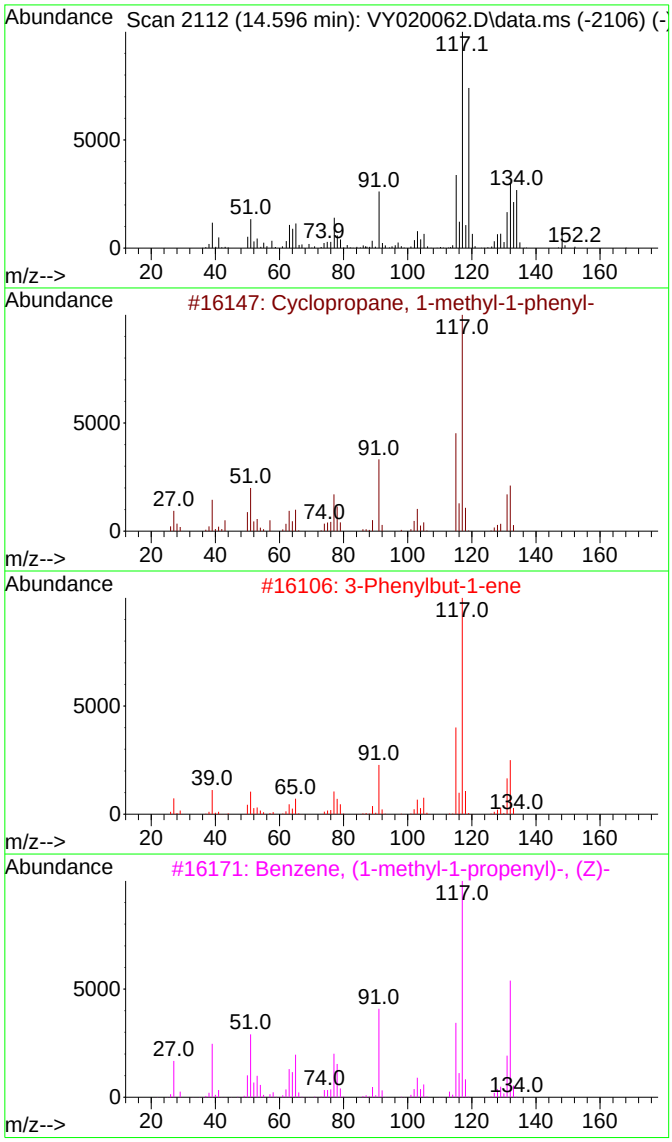
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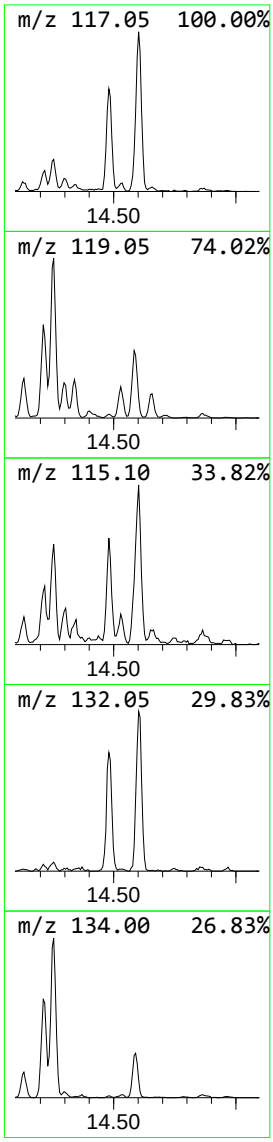
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Cyclopropane, 1-methyl-1-ph... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.596	30.67 ug/l	584351	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1-methyl-1-phenyl-	132	C10H12	002214-14-4	89
2	3-Phenylbut-1-ene	132	C10H12	000934-10-1	87
3	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	70
4	Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	55
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	55





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzene, 2-ethy...	13.584	11.0	ug/l	208712	4	13.346	952557	50.0
p-Cymene	13.834	9.6	ug/l	183395	4	13.346	952557	50.0
Benzene, 1-ethy...	13.889	26.7	ug/l	508413	4	13.346	952557	50.0
1,4-Cyclohexadi...	13.998	10.1	ug/l	191933	4	13.346	952557	50.0
Benzene, 1,2,4,...	14.212	22.9	ug/l	436821	4	13.346	952557	50.0
Benzene, 1-ethy...	14.254	31.4	ug/l	599032	4	13.346	952557	50.0
Benzene, 1,3-di...	14.297	10.9	ug/l	207593	4	13.346	952557	50.0
1H-Indene, 2,3-...	14.480	11.2	ug/l	214152	4	13.346	952557	50.0
o-Cymene	14.529	8.9	ug/l	169473	4	13.346	952557	50.0
Cyclopropane, 1...	14.596	30.7	ug/l	584351	4	13.346	952557	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020035.D
Acq On : 28 Oct 2024 12:43
Operator : SY/MD
Sample : P4578-07
Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 29 01:56:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

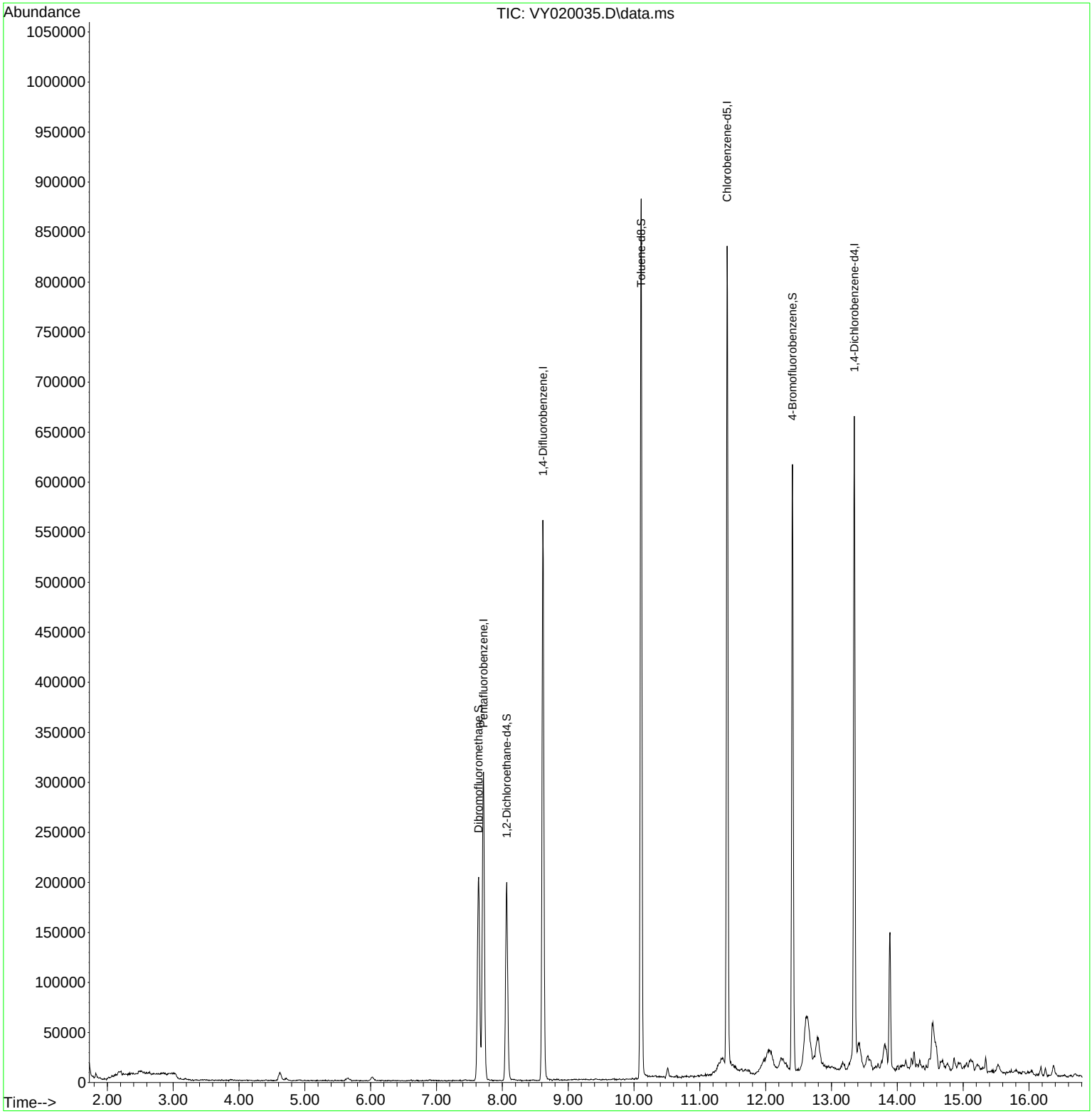
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	212409	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	437109	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	398917	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	145301	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	148565	56.804	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.600%			
35) Dibromofluoromethane	7.640	113	144871	50.225	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.460%			
50) Toluene-d8	10.109	98	549680	51.604	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.200%			
62) 4-Bromofluorobenzene	12.407	95	169141	43.946	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 87.900%			
Target Compounds						Qvalue

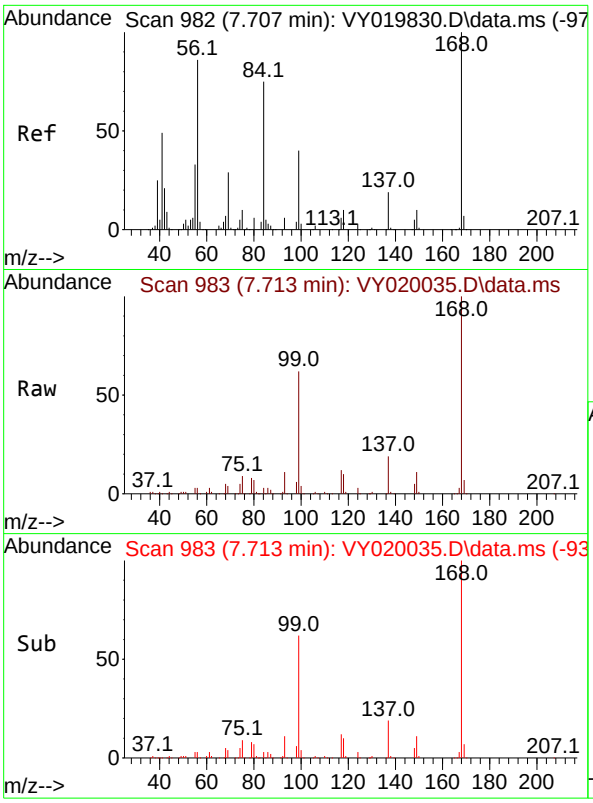
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020035.D
Acq On : 28 Oct 2024 12:43
Operator : SY/MD
Sample : P4578-07
Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 29 01:56:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



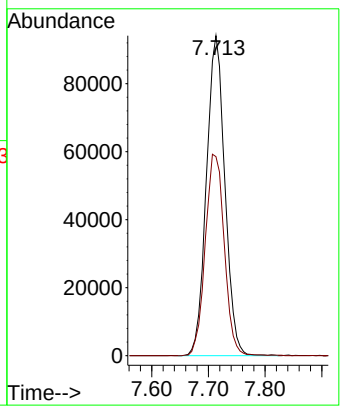


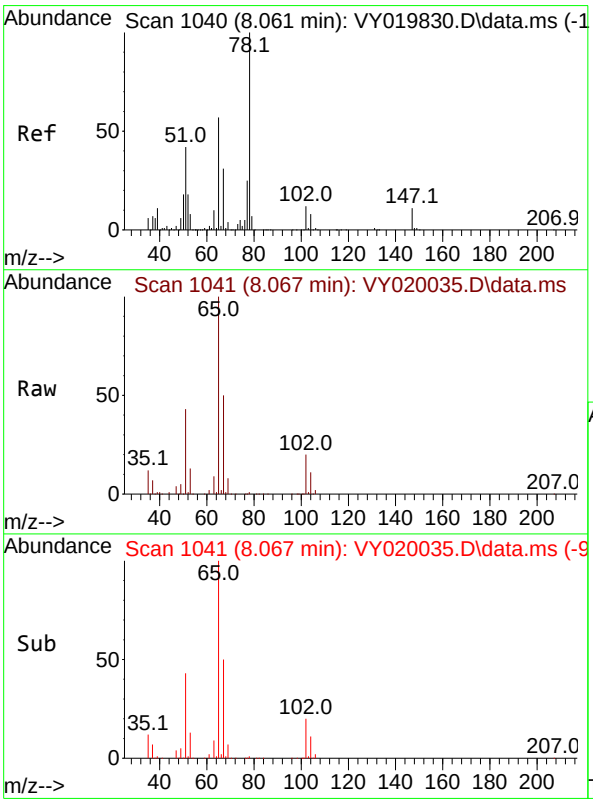
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Tgt Ion:168 Resp: 212409

Ion	Ratio	Lower	Upper
168	100		
99	62.2	39.1	58.7#

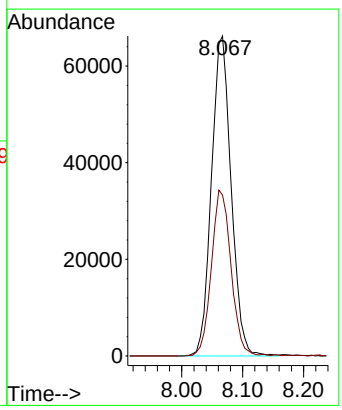


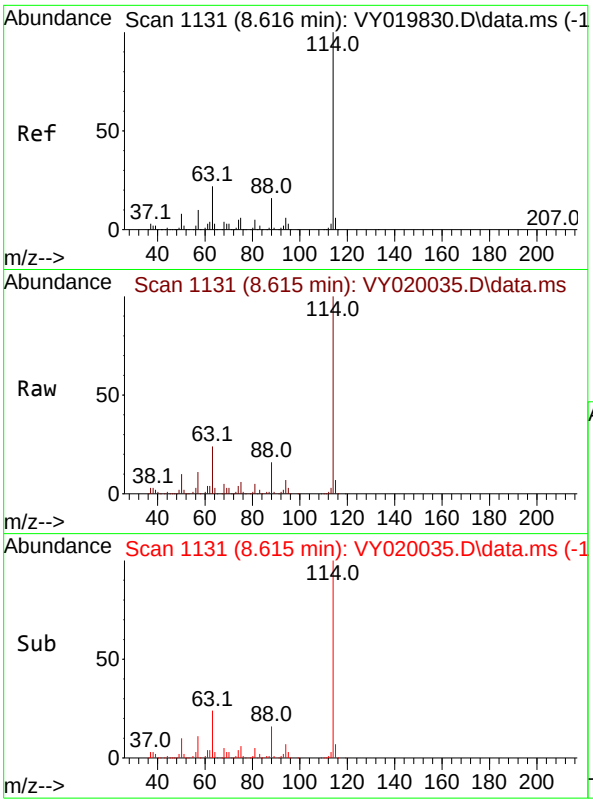


#33
1,2-Dichloroethane-d4
Concen: 56.804 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

Tgt Ion: 65 Resp: 148565

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	109.6



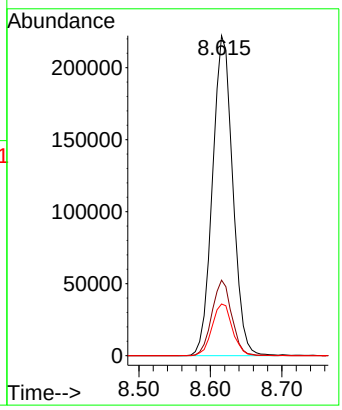


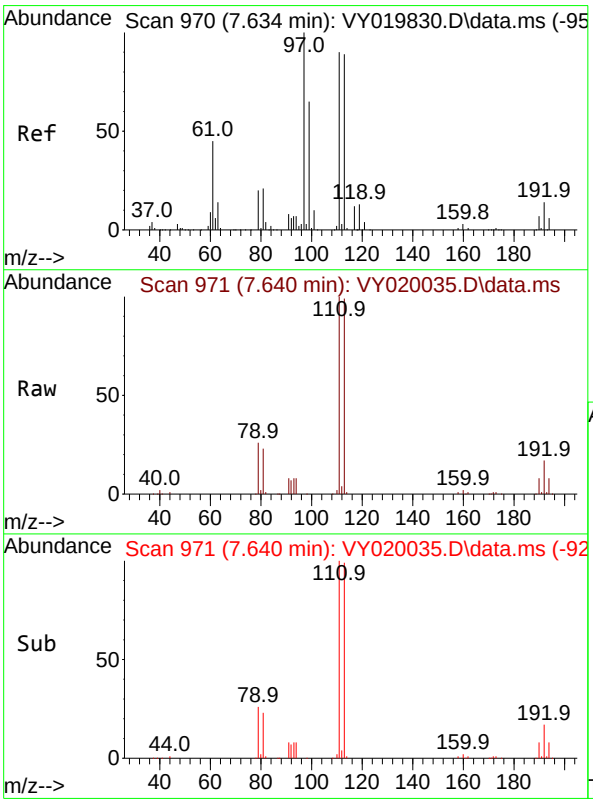
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Tgt Ion:114 Resp: 437109

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	35.0
88	16.1	0.0	27.2

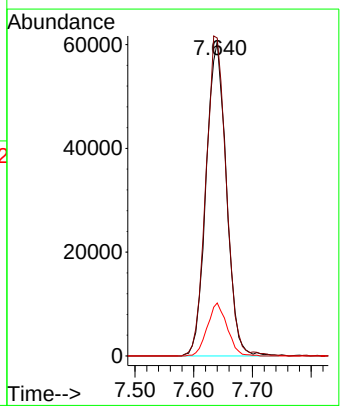


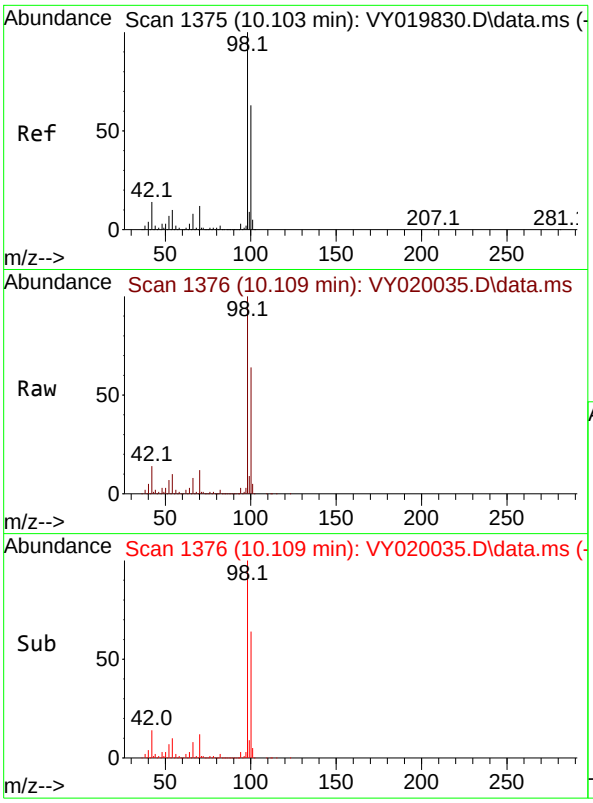


#35
Dibromofluoromethane
Concen: 50.225 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

Tgt Ion:113 Resp: 144871

Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.2	123.4
192	16.5	15.9	23.9



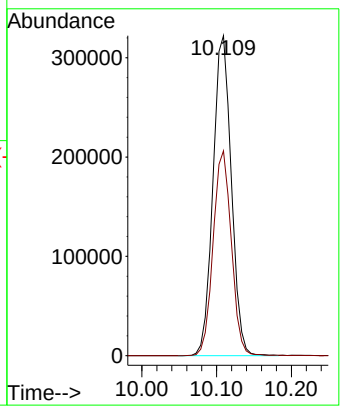


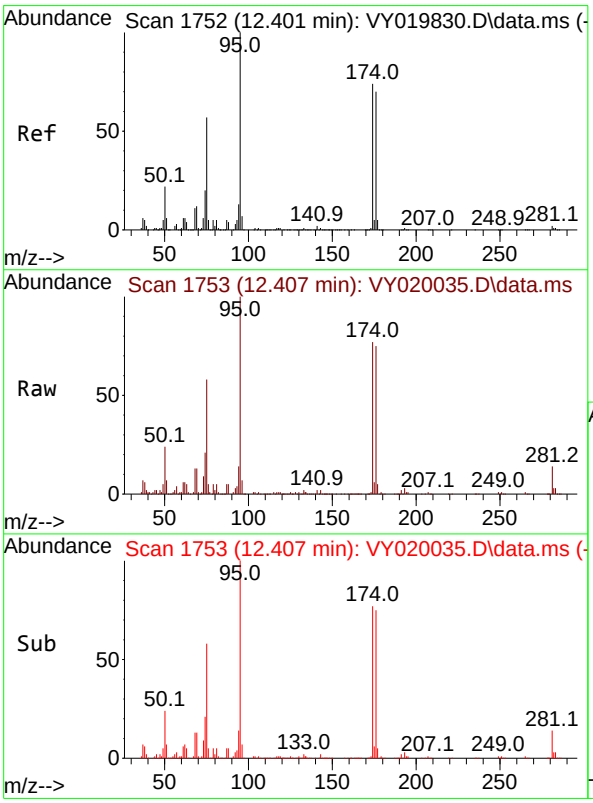
#50
Toluene-d8
Concen: 51.604 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 98 Resp: 549680

Ion	Ratio	Lower	Upper
98	100		
100	63.6	52.0	78.0

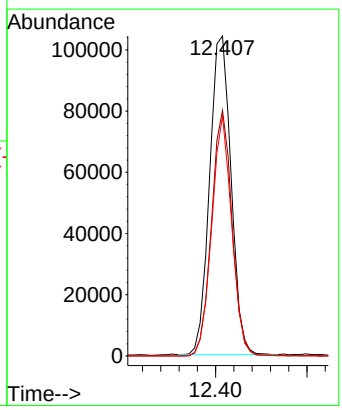


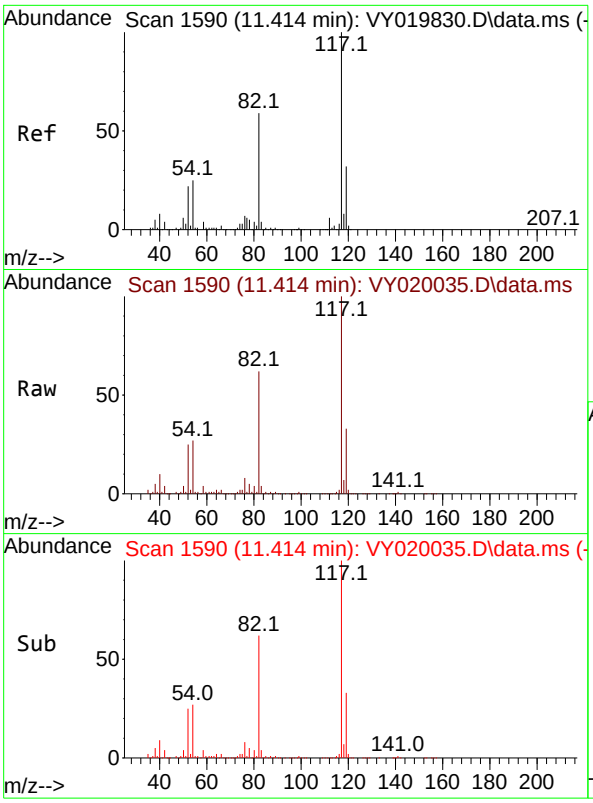


#62
4-Bromofluorobenzene
Concen: 43.946 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

Tgt Ion: 95 Resp: 169141

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	175.6
176	70.3	0.0	171.4



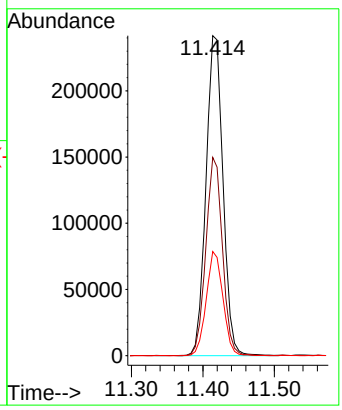


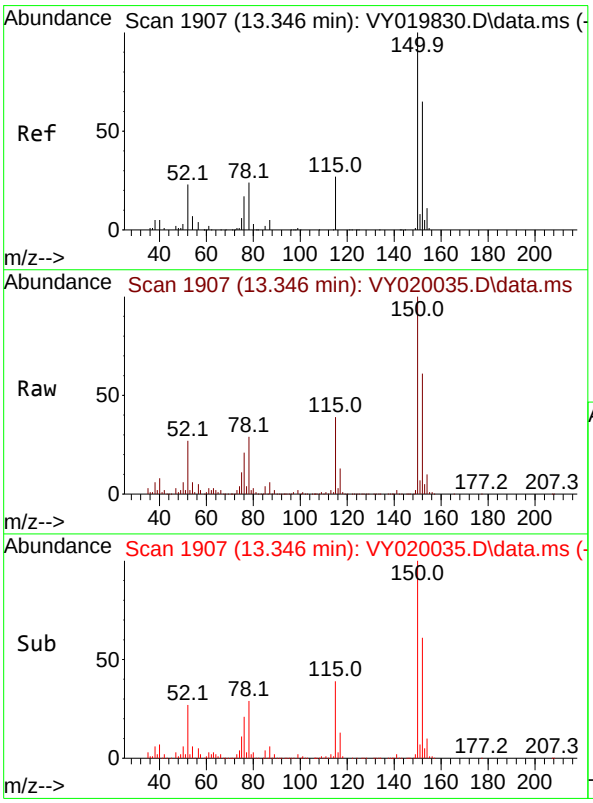
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Tgt Ion:117 Resp: 398917

Ion	Ratio	Lower	Upper
117	100		
82	61.9	42.4	63.6
119	32.6	25.9	38.9

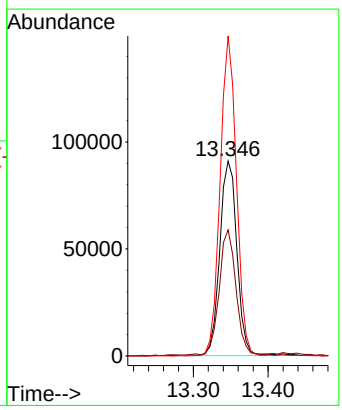




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

Tgt Ion:152 Resp: 145301

Ion	Ratio	Lower	Upper
152	100		
115	63.1	28.2	84.7
150	156.2	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020035.D
Acq On : 28 Oct 2024 12:43
Operator : SY/MD
Sample : P4578-07
Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

Signal : TIC: VY020035.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	469	476	487	rBV4	8036	22813	1.50%	0.261%
2	7.640	959	971	977	rBV	203770	499993	32.98%	5.725%
3	7.713	977	983	994	rVB	307759	694366	45.80%	7.950%
4	8.067	1027	1041	1052	rBV	198391	440075	29.03%	5.039%
5	8.615	1123	1131	1144	rBV	559897	1102598	72.73%	12.624%
6	10.109	1368	1376	1386	rBV	879180	1516114	100.00%	17.359%
7	10.511	1436	1442	1448	rBV	10429	22788	1.50%	0.261%
8	11.292	1562	1570	1572	rBV6	8540	20687	1.36%	0.237%
9	11.414	1584	1590	1598	rVB	816424	1321969	87.19%	15.136%
10	11.969	1668	1681	1683	rBV	12200	36794	2.43%	0.421%
11	12.231	1719	1724	1727	rBV6	7840	15502	1.02%	0.177%
12	12.407	1746	1753	1761	rVB2	605863	1041242	68.68%	11.922%
13	12.621	1775	1788	1803	rBV5	49320	284708	18.78%	3.260%
14	12.785	1808	1815	1816	rBV7	20104	35631	2.35%	0.408%
15	13.346	1901	1907	1914	rBV	638702	983345	64.86%	11.259%
16	13.554	1935	1941	1944	rBV8	8879	19688	1.30%	0.225%
17	13.810	1976	1983	1990	rVV8	24616	86340	5.69%	0.989%
18	13.889	1990	1996	2007	rVB2	137271	240102	15.84%	2.749%
19	14.255	2052	2056	2060	rVB	15062	23261	1.53%	0.266%
20	14.492	2089	2095	2096	rBV5	9006	17184	1.13%	0.197%
21	14.541	2096	2103	2117	rVB6	46161	191611	12.64%	2.194%
22	14.864	2151	2156	2162	rBV8	11118	21330	1.41%	0.244%
23	15.340	2231	2234	2239	rVB3	15411	21923	1.45%	0.251%
24	15.529	2260	2265	2277	rVB3	8675	26963	1.78%	0.309%
25	16.181	2366	2372	2377	rVV3	9323	16027	1.06%	0.184%
26	16.370	2397	2403	2415	rVB7	11073	30821	2.03%	0.353%

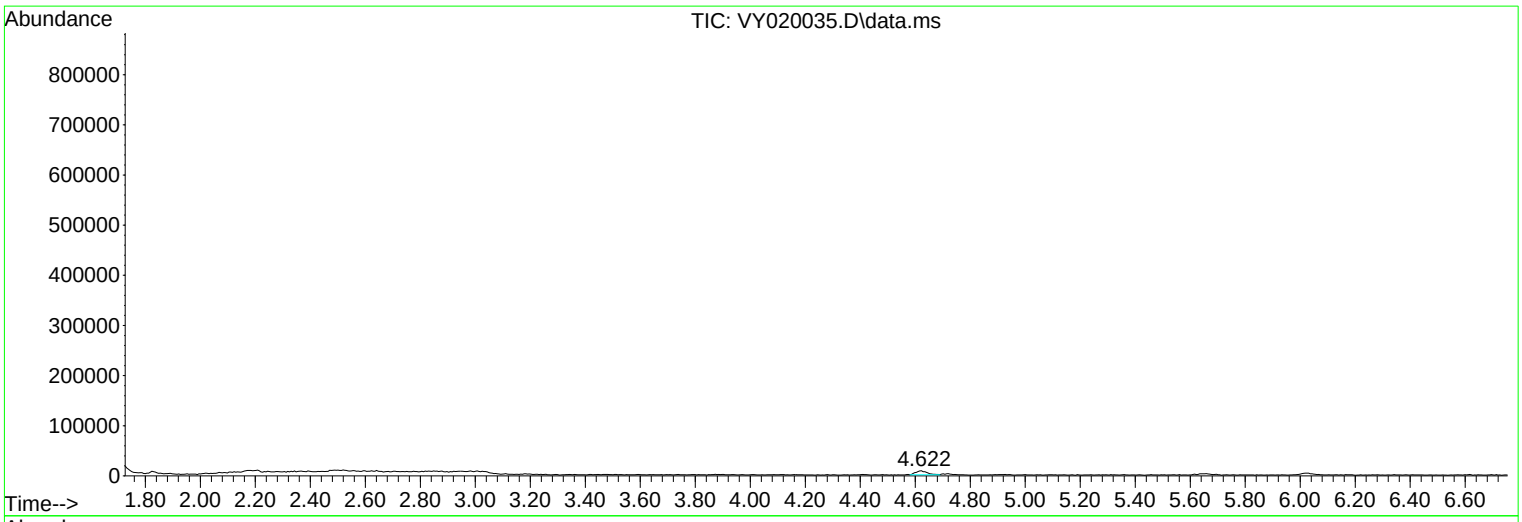
Sum of corrected areas: 8733875

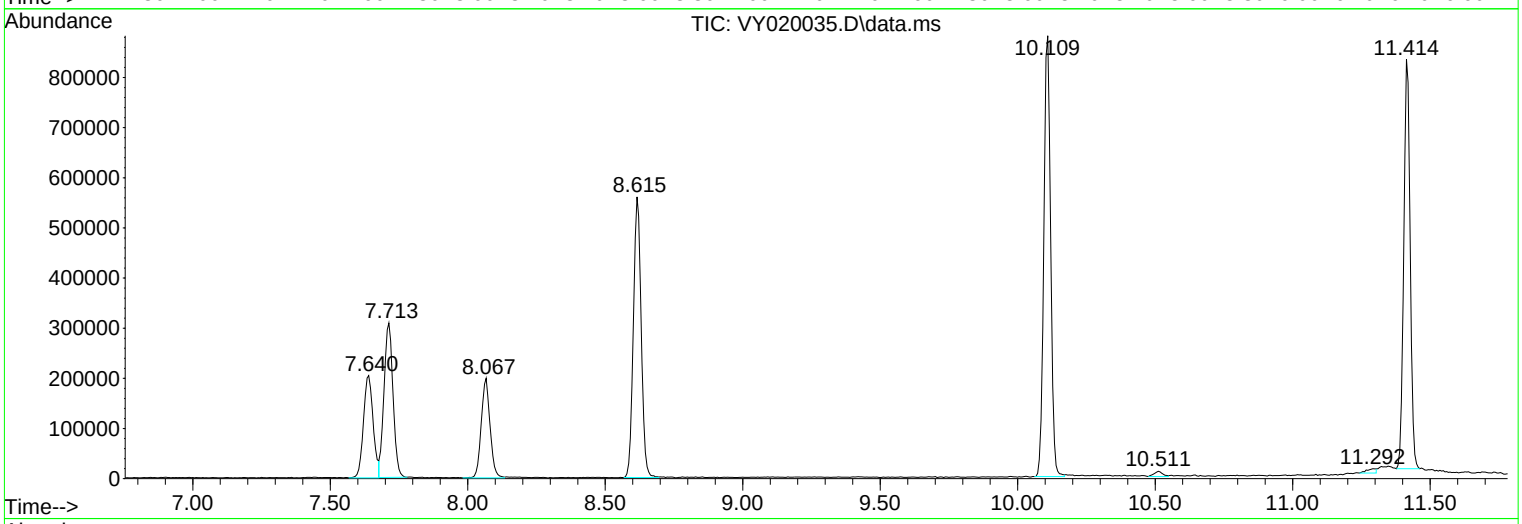
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020035.D
Acq On : 28 Oct 2024 12:43
Operator : SY/MD
Sample : P4578-07
Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

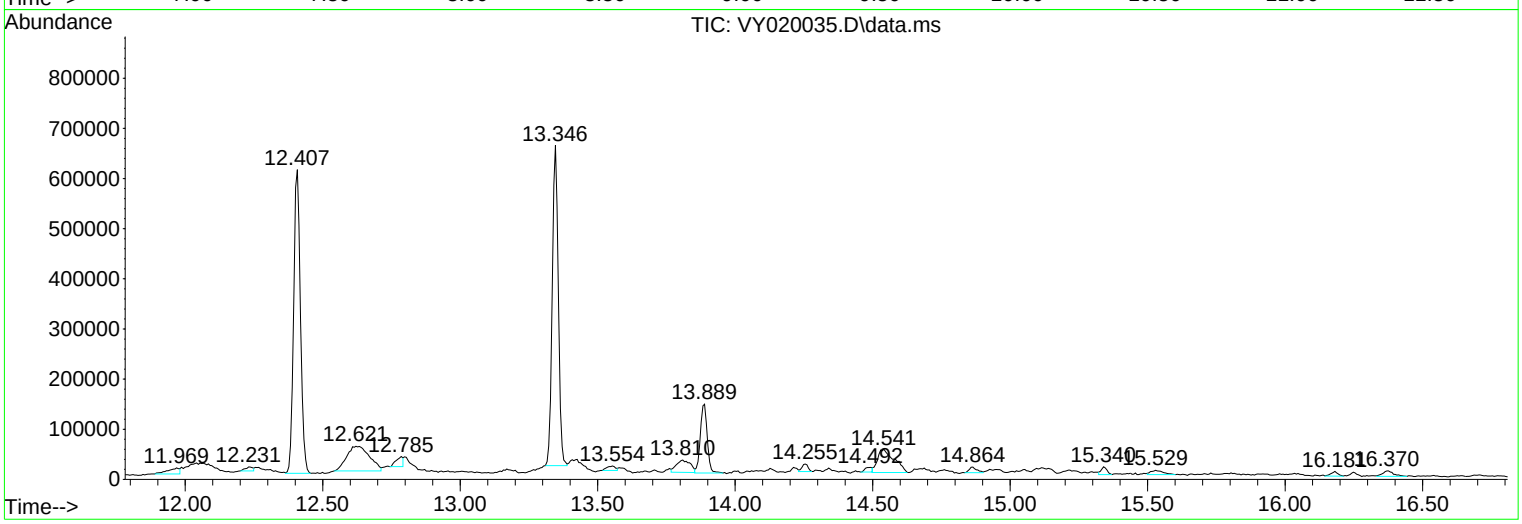
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020035.D
Acq On : 28 Oct 2024 12:43
Operator : SY/MD
Sample : P4578-07
Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

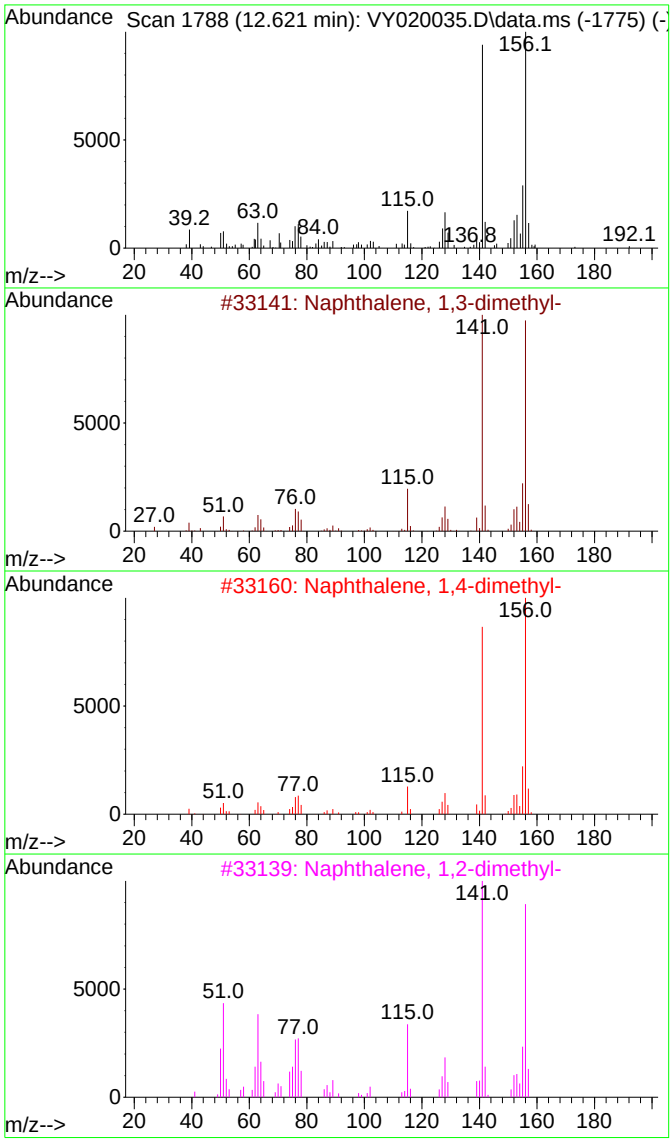
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

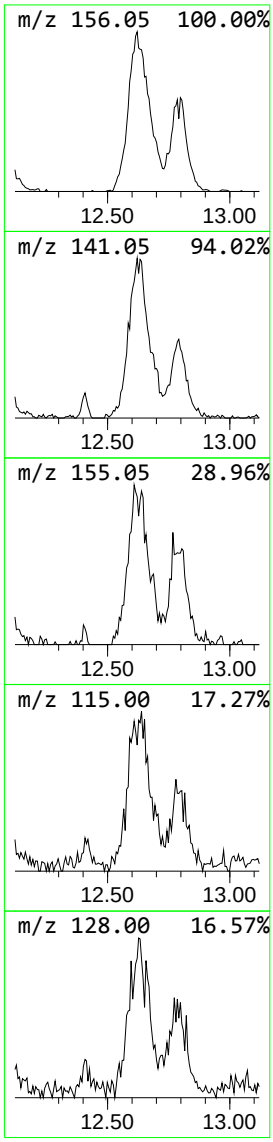
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Naphthalene, 1,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.621	14.48 ug/l	284708	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
3	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	95
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	94
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020035.D
Acq On : 28 Oct 2024 12:43
Operator : SY/MD
Sample : P4578-07
Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, 1,...	12.621	14.5	ug/l	284708	4	13.346	983345	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043591.D
Acq On : 29 Oct 2024 12:56
Operator : JC/MD
Sample : P4578-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Quant Time: Oct 30 01:30:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

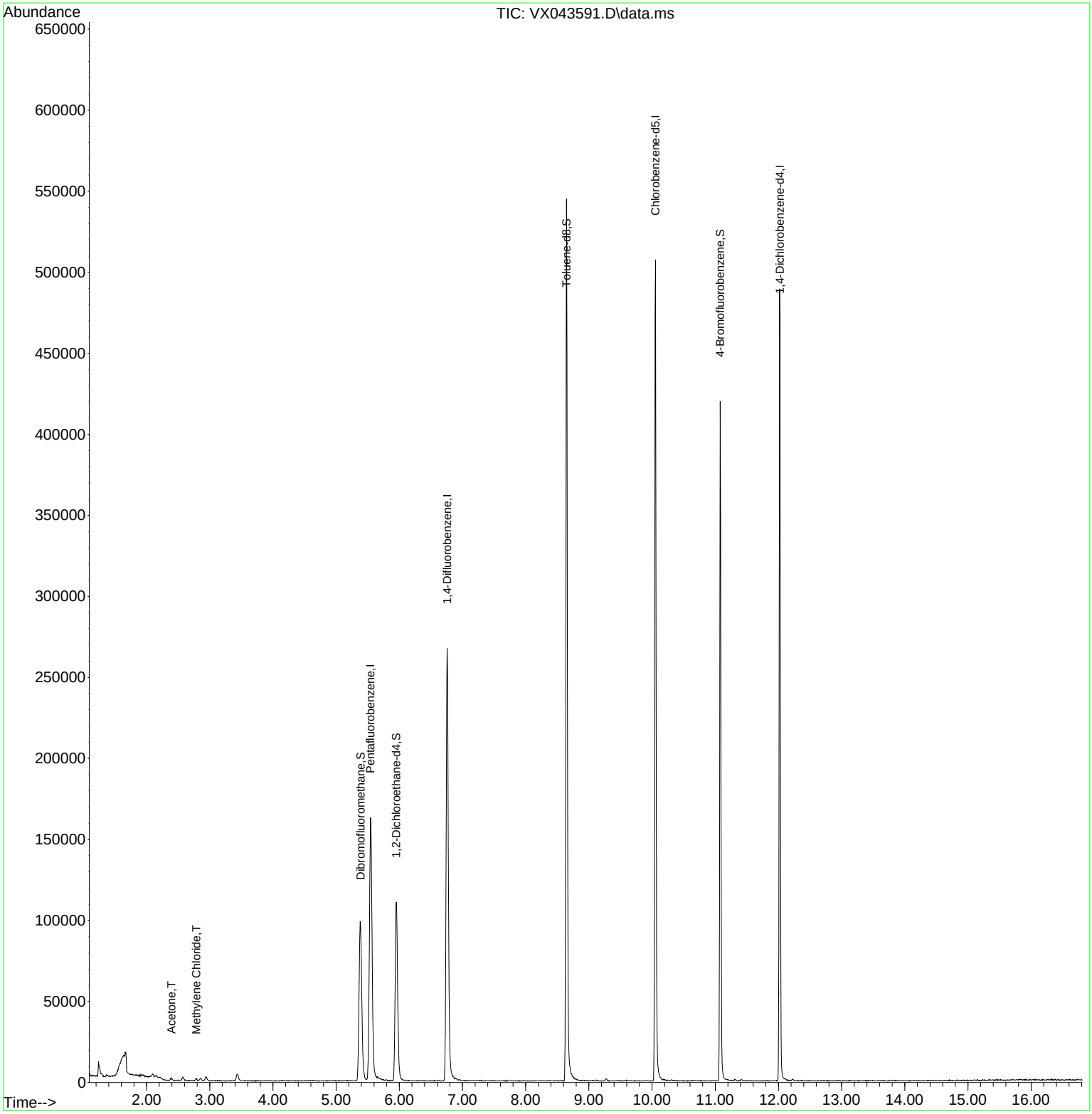
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	156843	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	288755	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	251324	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	105429	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	110702	44.265	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.520%		
35) Dibromofluoromethane	5.385	113	88640	45.270	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.540%		
50) Toluene-d8	8.647	98	337480	49.790	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.580%		
62) 4-Bromofluorobenzene	11.079	95	114524	45.598	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	91.200%		
Target Compounds						Qvalue
16) Acetone	2.392	43	1722	1.734	ug/l	95
20) Methylene Chloride	2.788	84	642	0.300	ug/l #	80

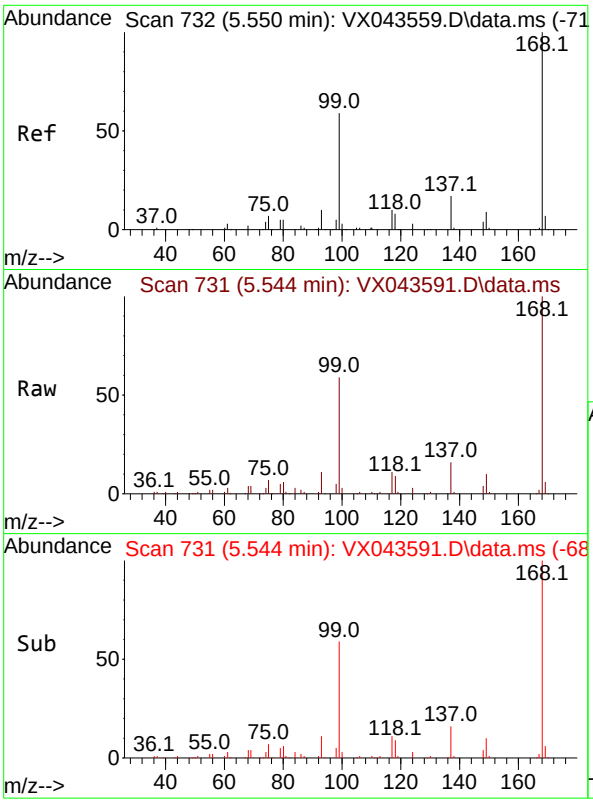
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043591.D
Acq On : 29 Oct 2024 12:56
Operator : JC/MD
Sample : P4578-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Quant Time: Oct 30 01:30:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



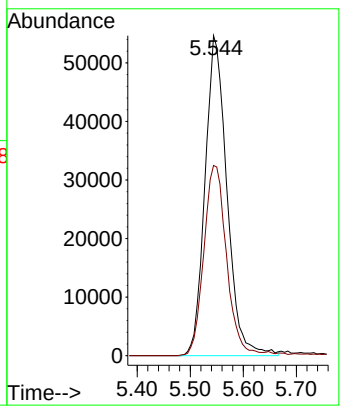


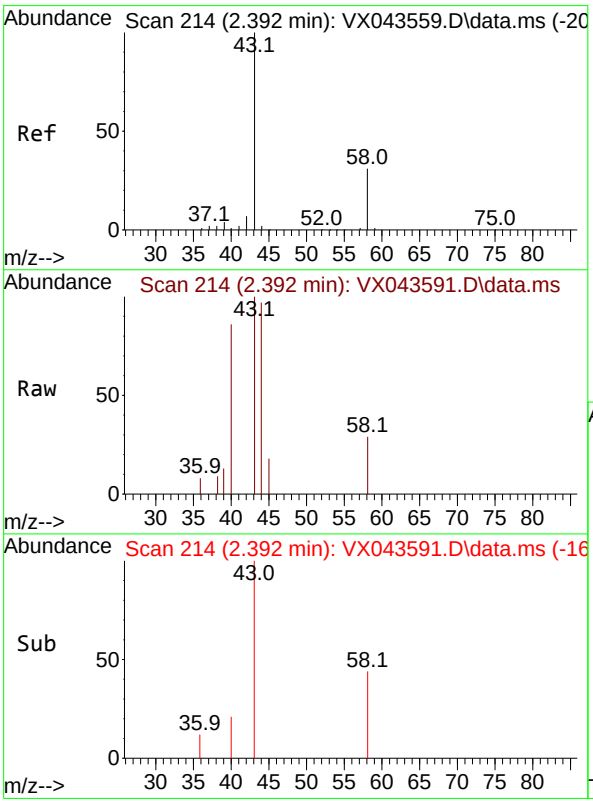
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Tgt Ion:168 Resp: 156843

Ion	Ratio	Lower	Upper
168	100		
99	59.5	52.6	78.8

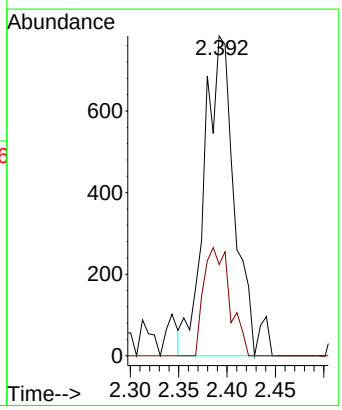


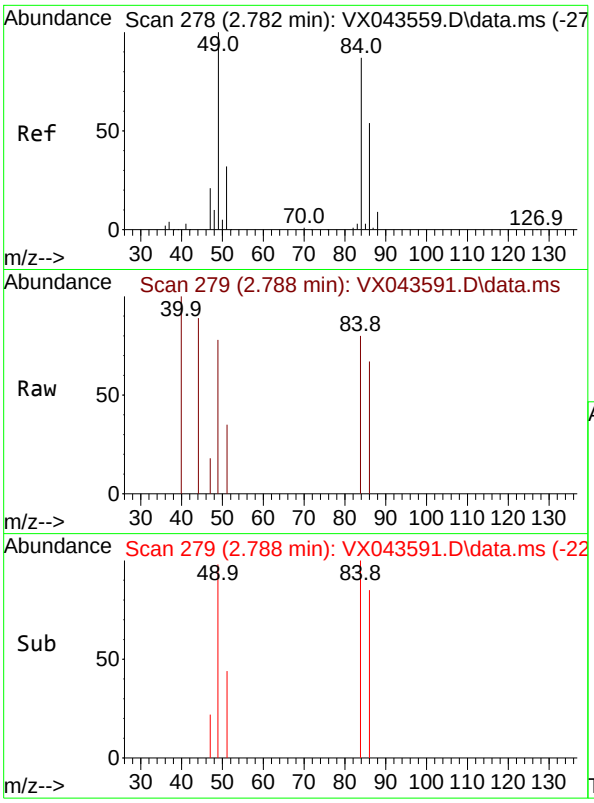


#16
Acetone
Concen: 1.734 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

Tgt Ion: 43 Resp: 1722

Ion	Ratio	Lower	Upper
43	100		
58	28.6	25.1	37.7



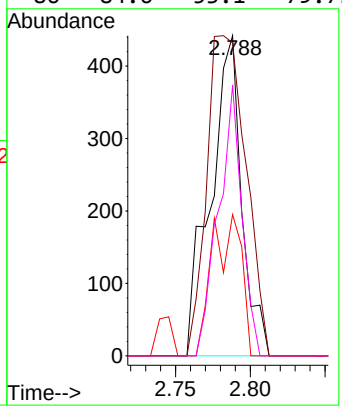


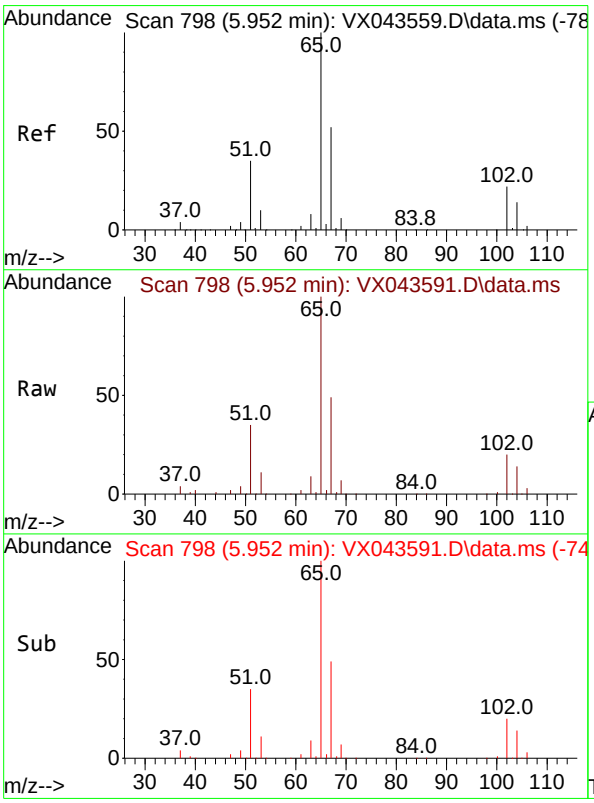
#20
Methylene Chloride
Concen: 0.300 ug/l
RT: 2.788 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Tgt Ion: 84 Resp: 642

Ion	Ratio	Lower	Upper
84	100		
49	97.7	97.0	145.6
51	44.1	29.8	44.8
86	84.6	53.1	79.7#

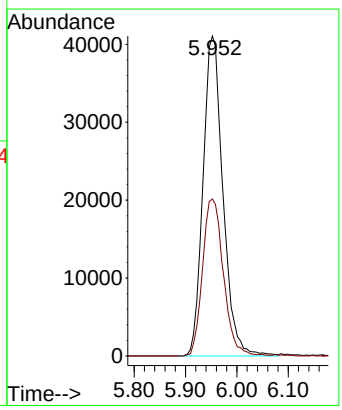


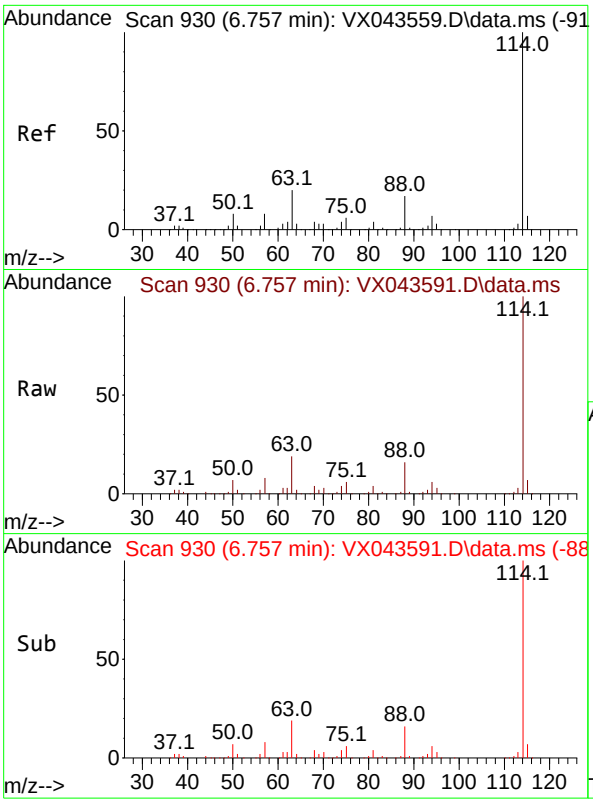


#33
1,2-Dichloroethane-d4
Concen: 44.265 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

Tgt Ion: 65 Resp: 110702

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	103.4



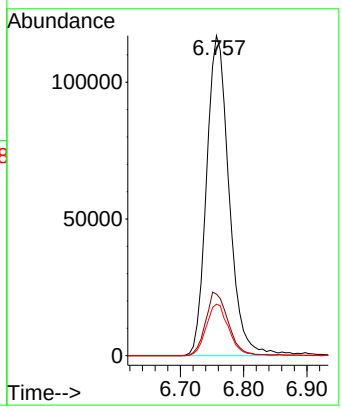


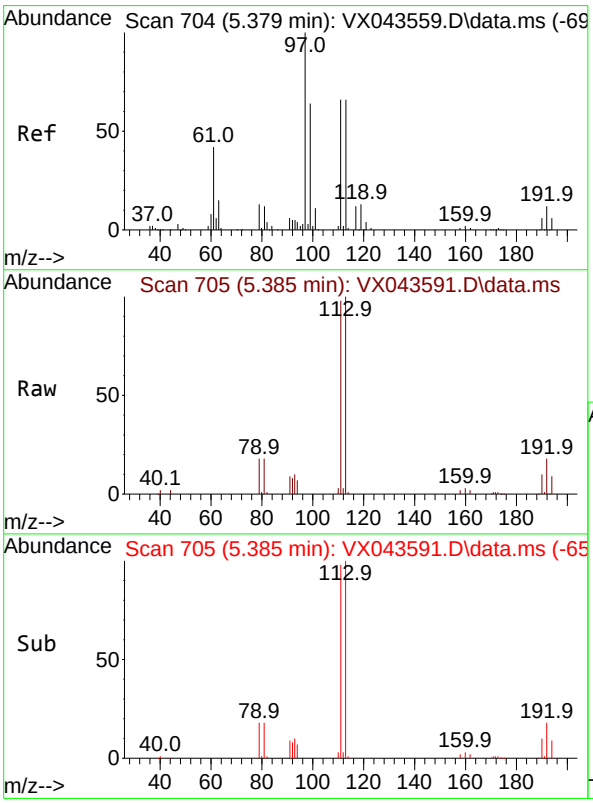
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Tgt Ion:114 Resp: 288755

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	41.2
88	16.1	0.0	34.0

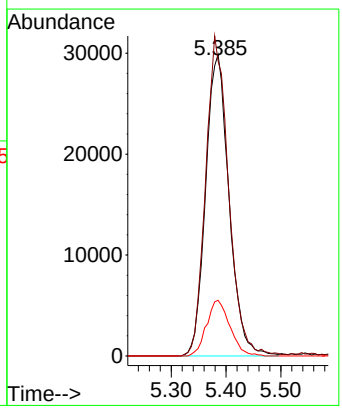


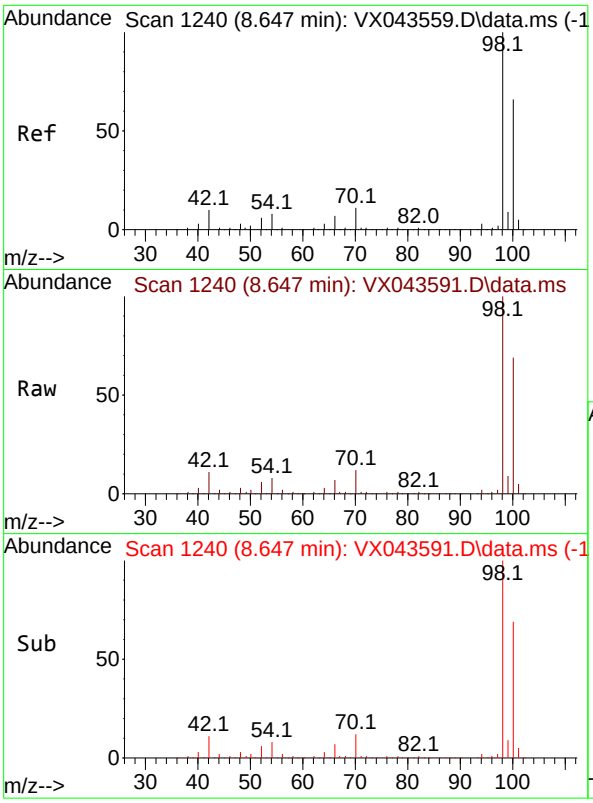


#35
Dibromofluoromethane
Concen: 45.270 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

Tgt Ion:113 Resp: 88640

Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.4	122.0
192	18.4	14.1	21.1



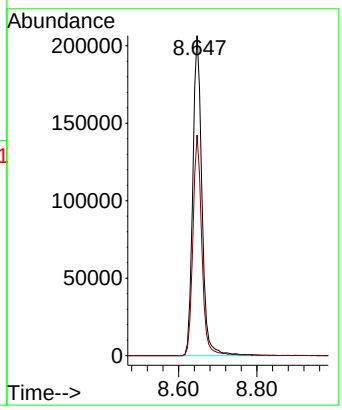


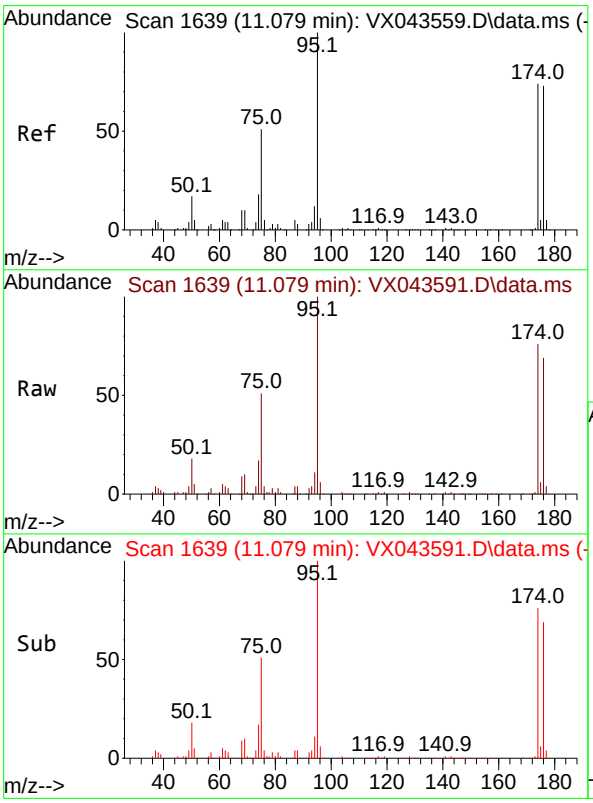
#50
Toluene-d8
Concen: 49.790 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Tgt Ion: 98 Resp: 337480

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.4	80.2

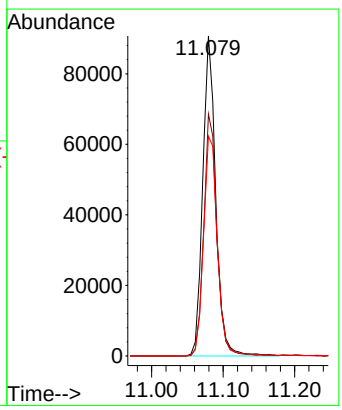




#62
4-Bromofluorobenzene
Concen: 45.598 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

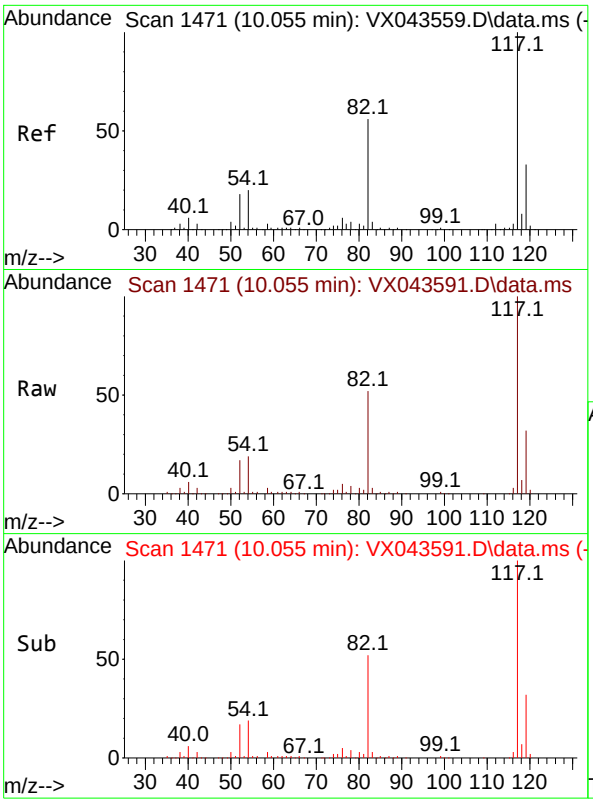
Tgt Ion: 95 Resp: 114524

Ion	Ratio	Lower	Upper
95	100		
174	76.5	0.0	146.6
176	72.9	0.0	139.6



5

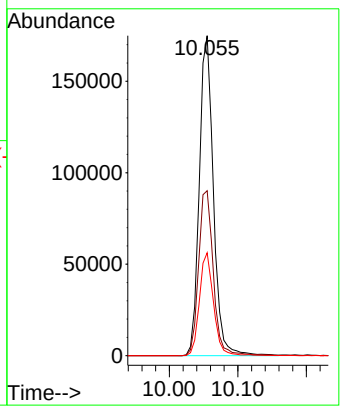
Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

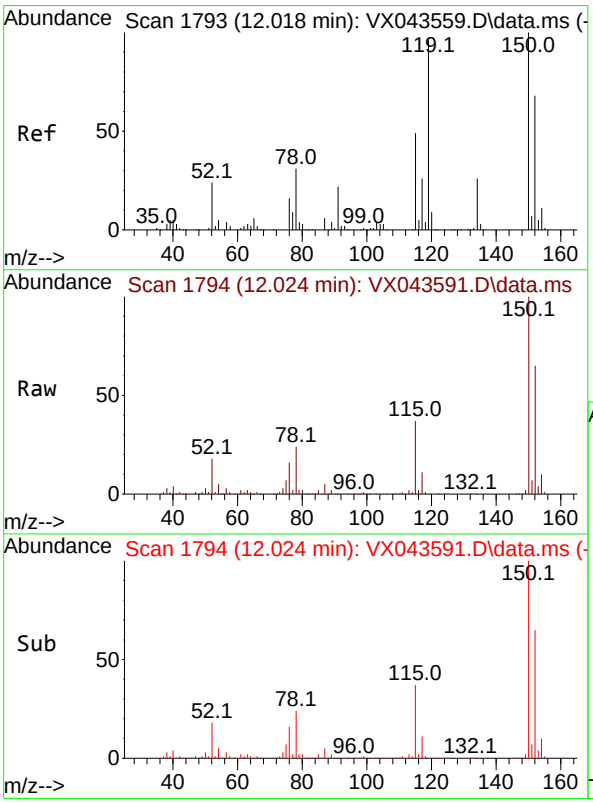


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

Tgt Ion:117 Resp: 251324

Ion	Ratio	Lower	Upper
117	100		
82	51.6	42.1	63.1
119	32.1	25.4	38.2

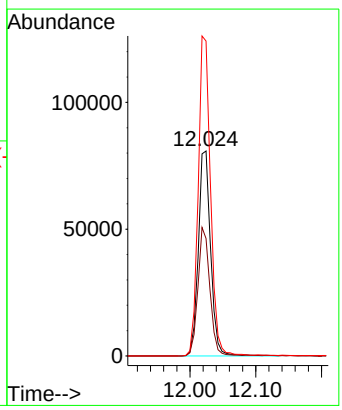




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

Tgt Ion:152 Resp: 105429

Ion	Ratio	Lower	Upper
152	100		
115	60.7	42.9	128.7
150	155.8	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043591.D
Acq On : 29 Oct 2024 12:56
Operator : JC/MD
Sample : P4578-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Title : SW846 8260

Signal : TIC: VX043591.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	22	25	32	rBV2	8981	14858	1.69%	0.328%
2	1.581	75	81	82	rBV6	4837	9314	1.06%	0.205%
3	3.428	379	384	395	rVB6	4012	10381	1.18%	0.229%
4	5.379	694	704	720	rBV2	98472	293220	33.40%	6.466%
5	5.544	720	731	747	rBV2	161833	468837	53.40%	10.338%
6	5.952	787	798	817	rBV	110447	301734	34.37%	6.653%
7	6.757	920	930	945	rBV2	267124	654792	74.58%	14.439%
8	8.647	1234	1240	1255	rBV	544379	877931	100.00%	19.359%
9	10.055	1465	1471	1488	rBV	506637	738578	84.13%	16.286%
10	11.079	1634	1639	1655	rBV	419365	537207	61.19%	11.846%
11	12.018	1788	1793	1805	rBV	488600	628132	71.55%	13.851%

Sum of corrected areas: 4534984

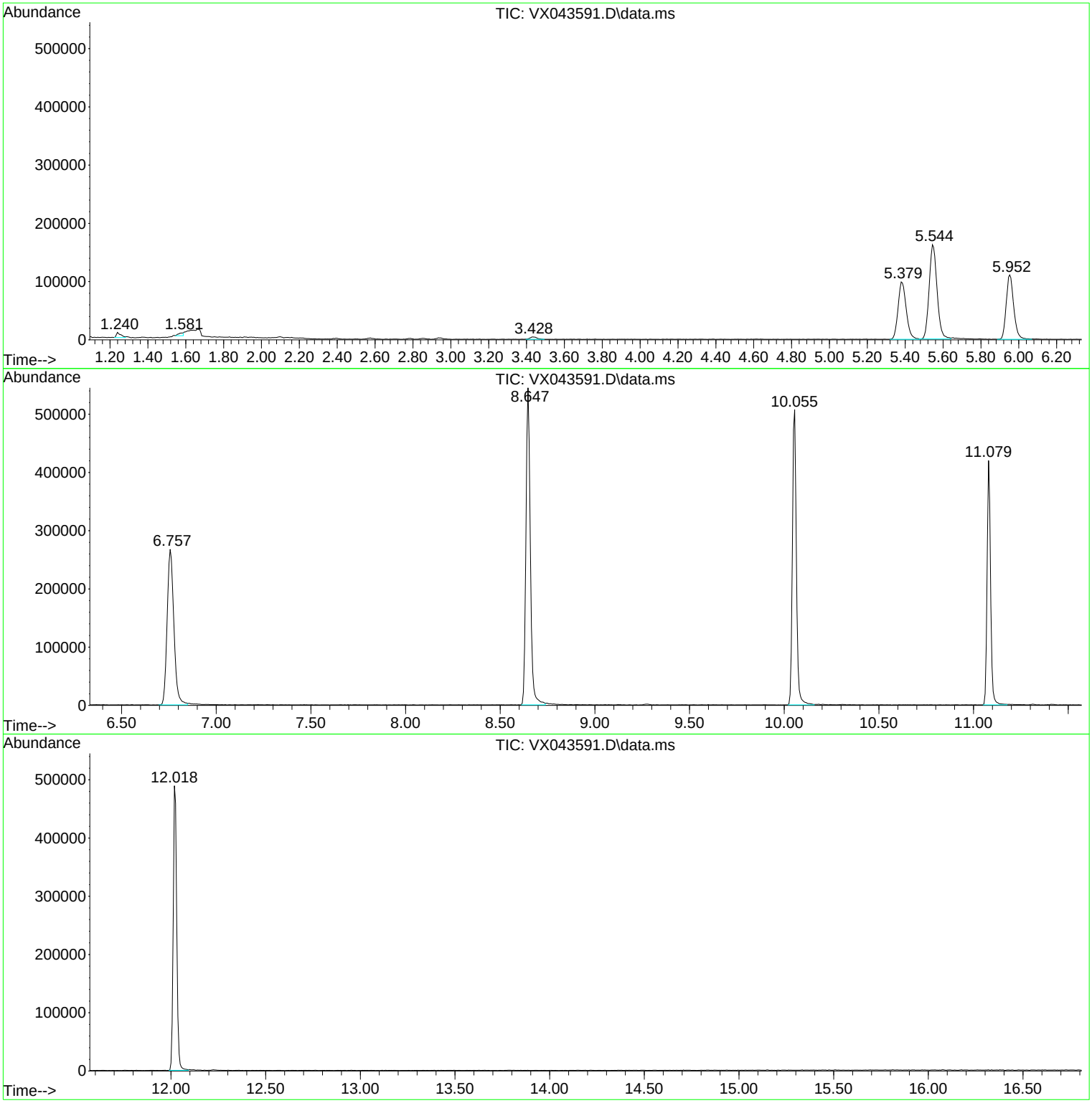
Sample Results: **VX043591.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043591.D
Acq On : 29 Oct 2024 12:56
Operator : JC/MD
Sample : P4578-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043591.D
Acq On : 29 Oct 2024 12:56
Operator : JC/MD
Sample : P4578-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043591.D
Acq On : 29 Oct 2024 12:56
Operator : JC/MD
Sample : P4578-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043585.D
Acq On : 29 Oct 2024 10:31
Operator : JC/MD
Sample : VX1029WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Quant Time: Oct 30 01:26:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	160199	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	295395	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	265502	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	128354	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	110928	43.426	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 86.860%			
35) Dibromofluoromethane	5.379	113	91054	45.457	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 90.920%			
50) Toluene-d8	8.647	98	350111	50.493	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.980%			
62) 4-Bromofluorobenzene	11.079	95	129946	50.575	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.160%			

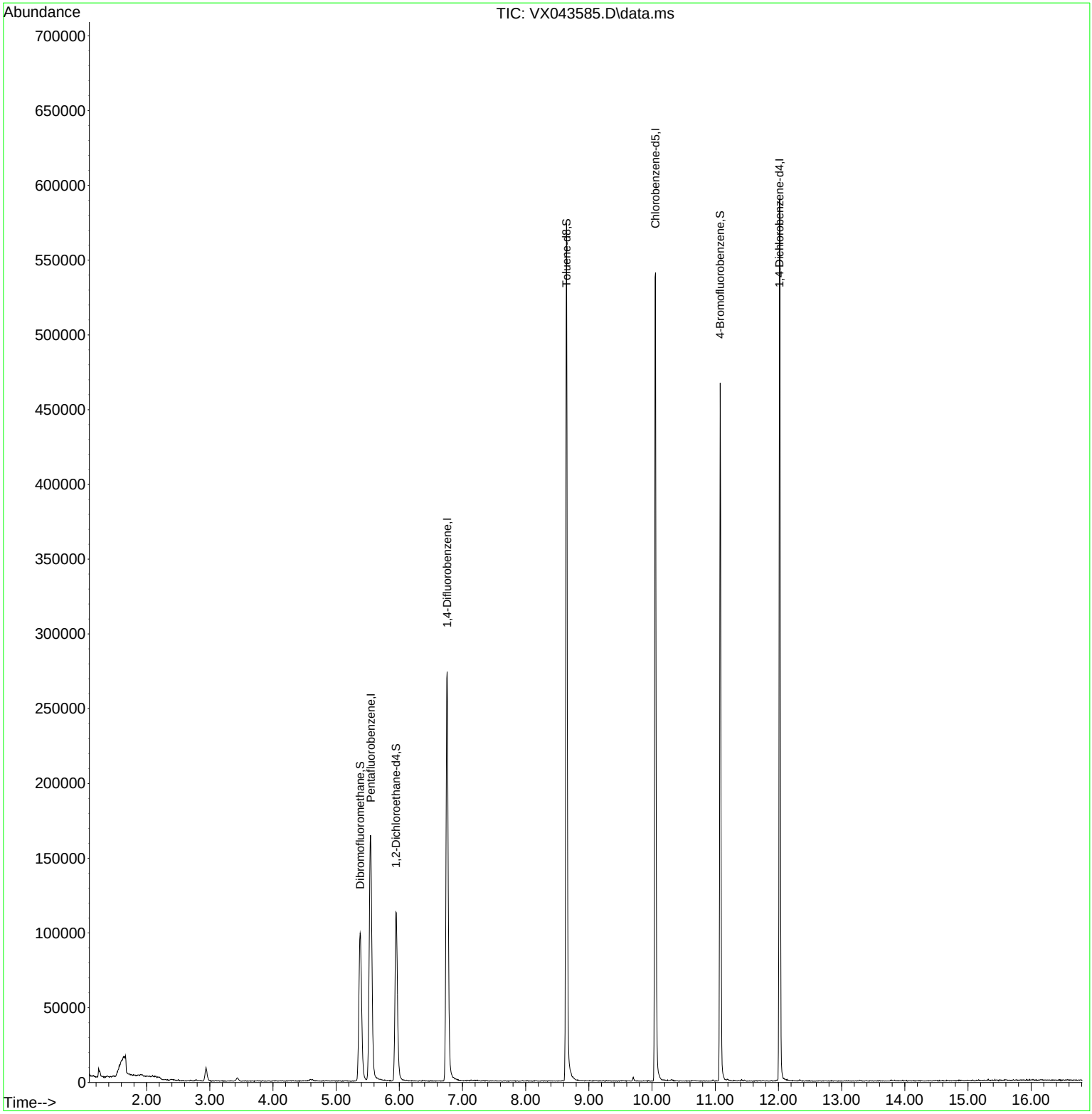
Target Compounds Qvalue

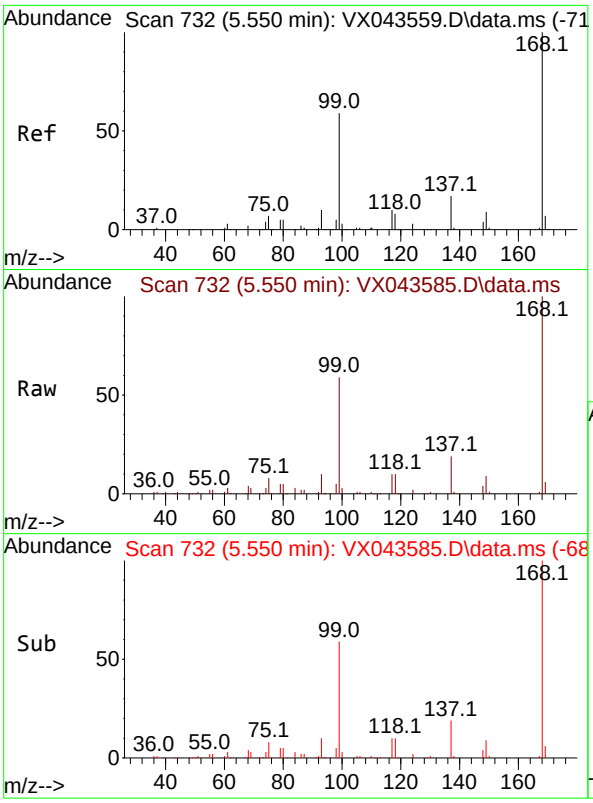
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043585.D
Acq On : 29 Oct 2024 10:31
Operator : JC/MD
Sample : VX1029WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Quant Time: Oct 30 01:26:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



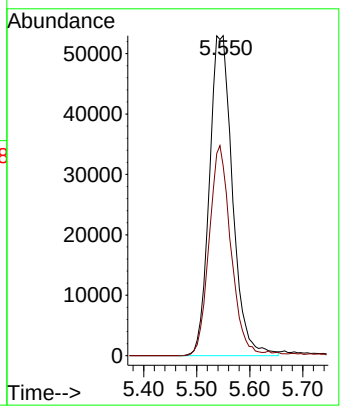


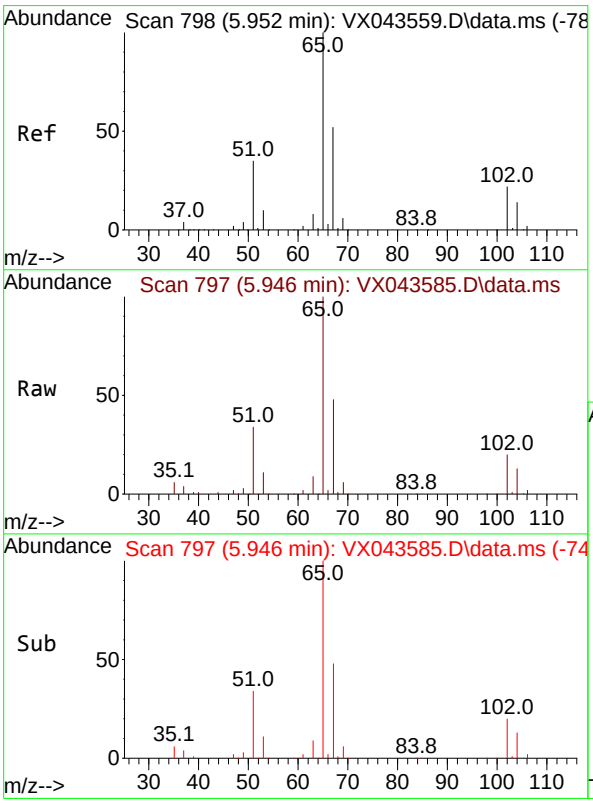
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Tgt Ion:168 Resp: 160199

Ion	Ratio	Lower	Upper
168	100		
99	59.3	52.6	78.8

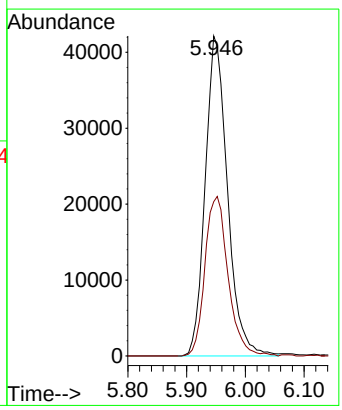


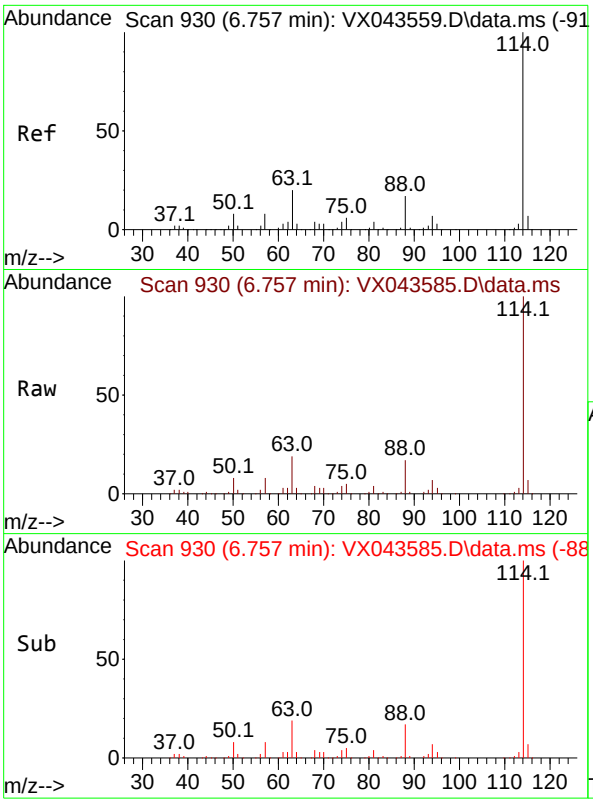


#33
1,2-Dichloroethane-d4
Concen: 43.426 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

Tgt Ion: 65 Resp: 110928

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	103.4



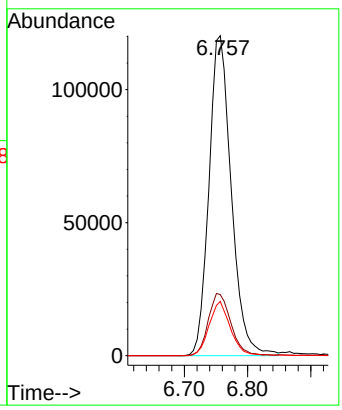


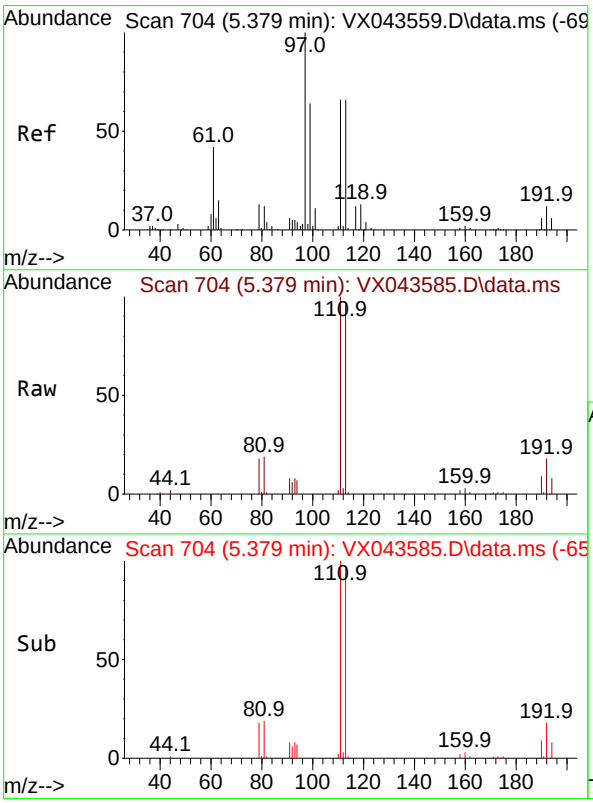
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Tgt Ion:114 Resp: 295395

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	41.2
88	17.0	0.0	34.0

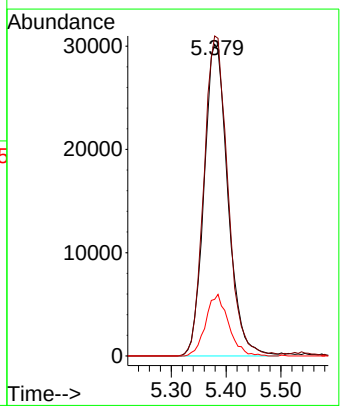


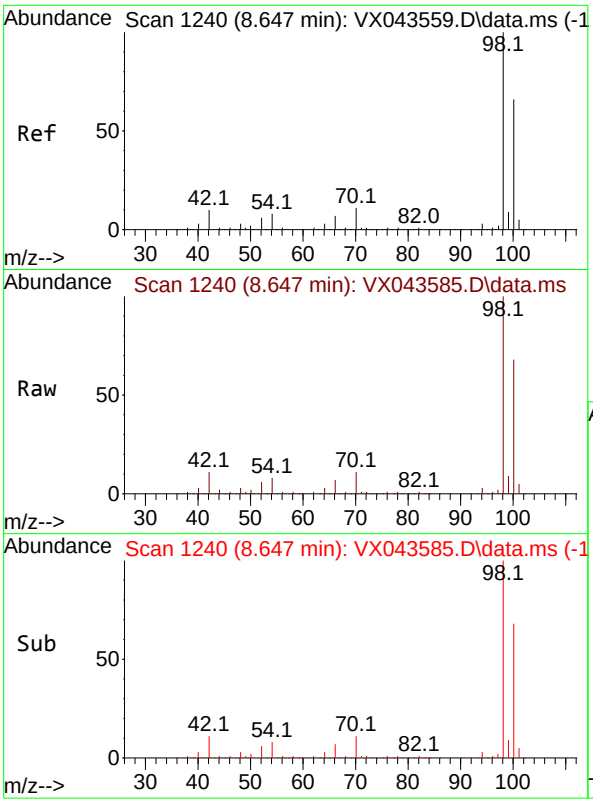


#35
Dibromofluoromethane
Concen: 45.457 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

Tgt Ion:113 Resp: 91054

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.4	122.0
192	19.0	14.1	21.1



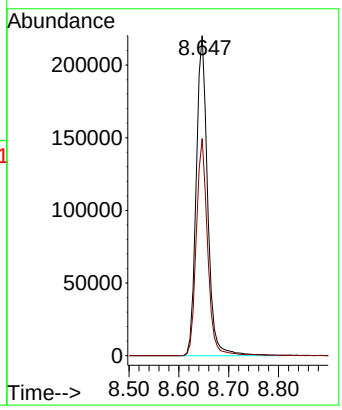


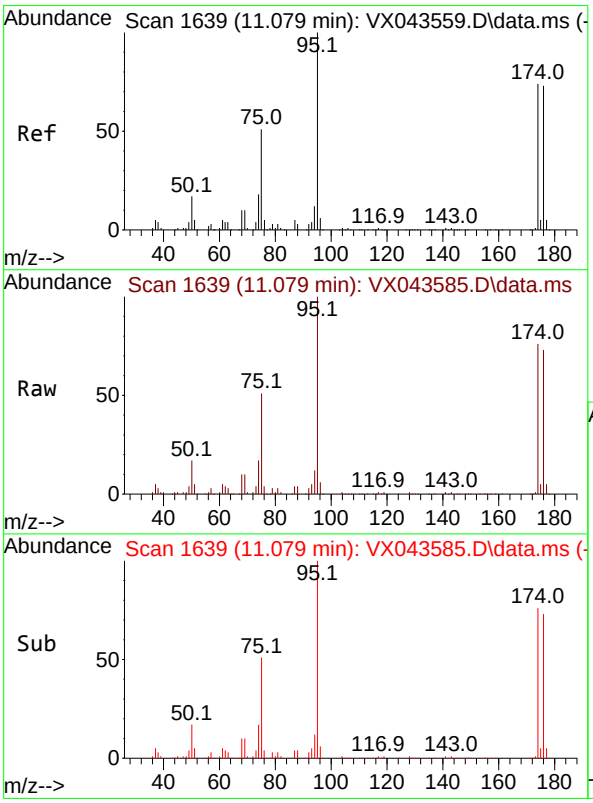
#50
Toluene-d8
Concen: 50.493 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Tgt Ion: 98 Resp: 350111

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.4	80.2

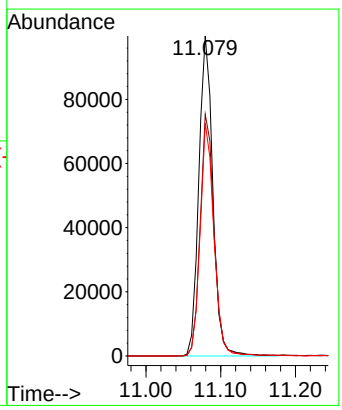




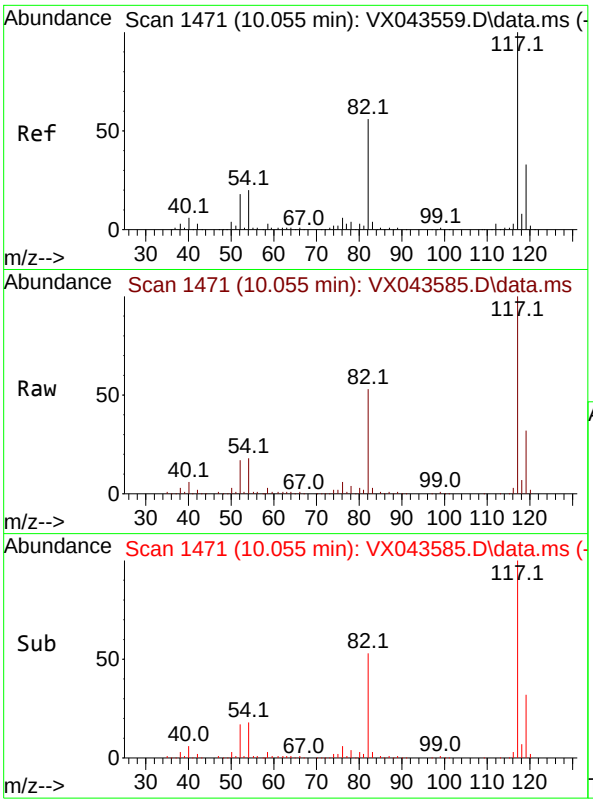
#62
4-Bromofluorobenzene
Concen: 50.575 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

Tgt Ion: 95 Resp: 129946

Ion	Ratio	Lower	Upper
95	100		
174	74.8	0.0	146.6
176	71.3	0.0	139.6



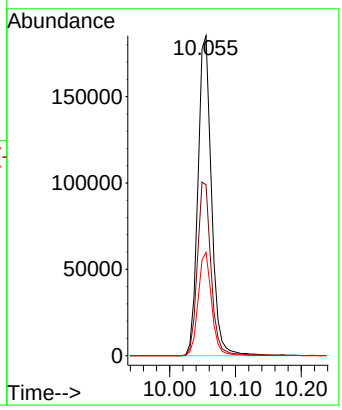
Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

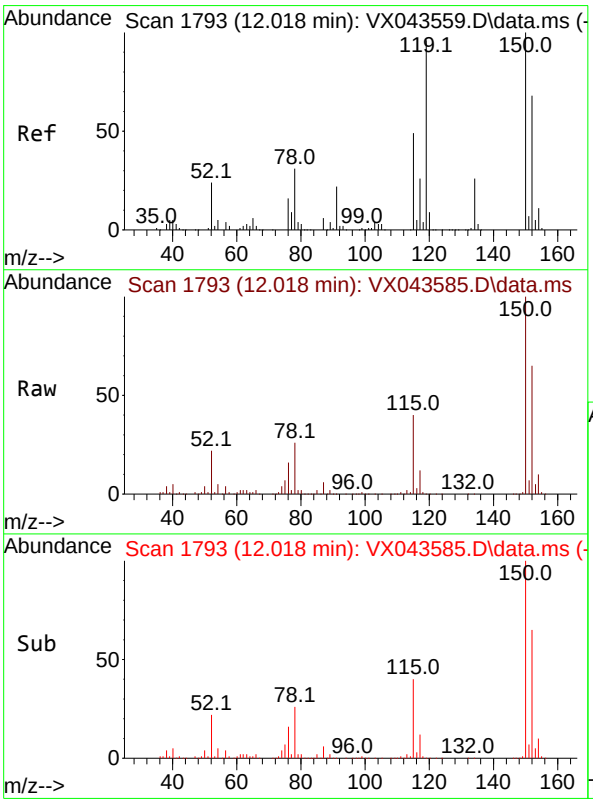


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

Tgt Ion:117 Resp: 265502

Ion	Ratio	Lower	Upper
117	100		
82	53.4	42.1	63.1
119	32.3	25.4	38.2

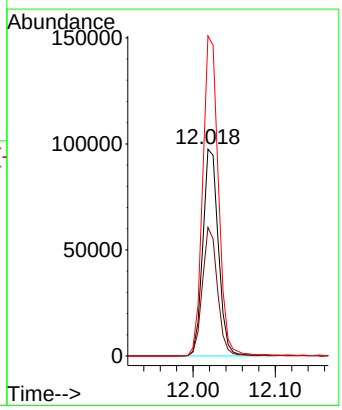




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

Tgt Ion:152 Resp: 128354

Ion	Ratio	Lower	Upper
152	100		
115	60.1	42.9	128.7
150	156.4	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043585.D
Acq On : 29 Oct 2024 10:31
Operator : JC/MD
Sample : VX1029WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Title : SW846 8260

Signal : TIC: VX043585.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	22	25	33	rBV2	5820	10354	1.13%	0.210%
2	1.636	69	90	91	rBV2	13385	60832	6.63%	1.236%
3	2.941	296	304	311	rBV	9049	21276	2.32%	0.432%
4	5.379	692	704	720	rBV3	98873	298272	32.51%	6.061%
5	5.544	720	731	748	rBV2	163521	477089	52.00%	9.695%
6	5.946	787	797	815	rBV	113015	307419	33.51%	6.247%
7	6.757	921	930	945	rBV	273644	673105	73.37%	13.678%
8	8.647	1233	1240	1255	rBV	573649	917416	100.00%	18.643%
9	10.055	1465	1471	1487	rBV	540530	792585	86.39%	16.106%
10	11.079	1634	1639	1654	rBV	466858	602291	65.65%	12.239%
11	12.018	1788	1793	1803	rBV	589573	760401	82.89%	15.452%

Sum of corrected areas: 4921040

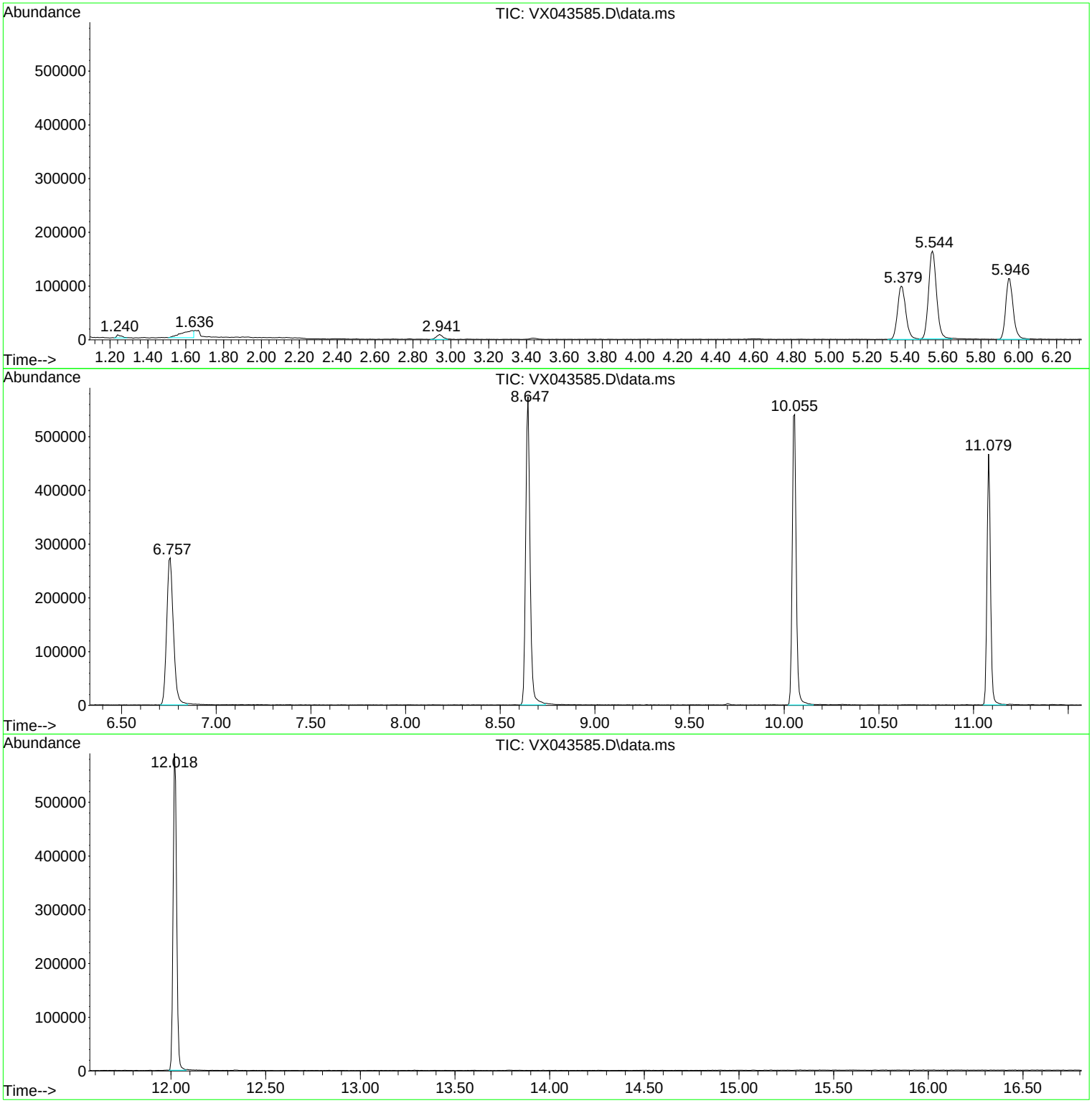
Sample Results: **VX043585.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043585.D
Acq On : 29 Oct 2024 10:31
Operator : JC/MD
Sample : VX1029WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043585.D
Acq On : 29 Oct 2024 10:31
Operator : JC/MD
Sample : VX1029WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043585.D
Acq On : 29 Oct 2024 10:31
Operator : JC/MD
Sample : VX1029WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Quant Time: Oct 29 01:53:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

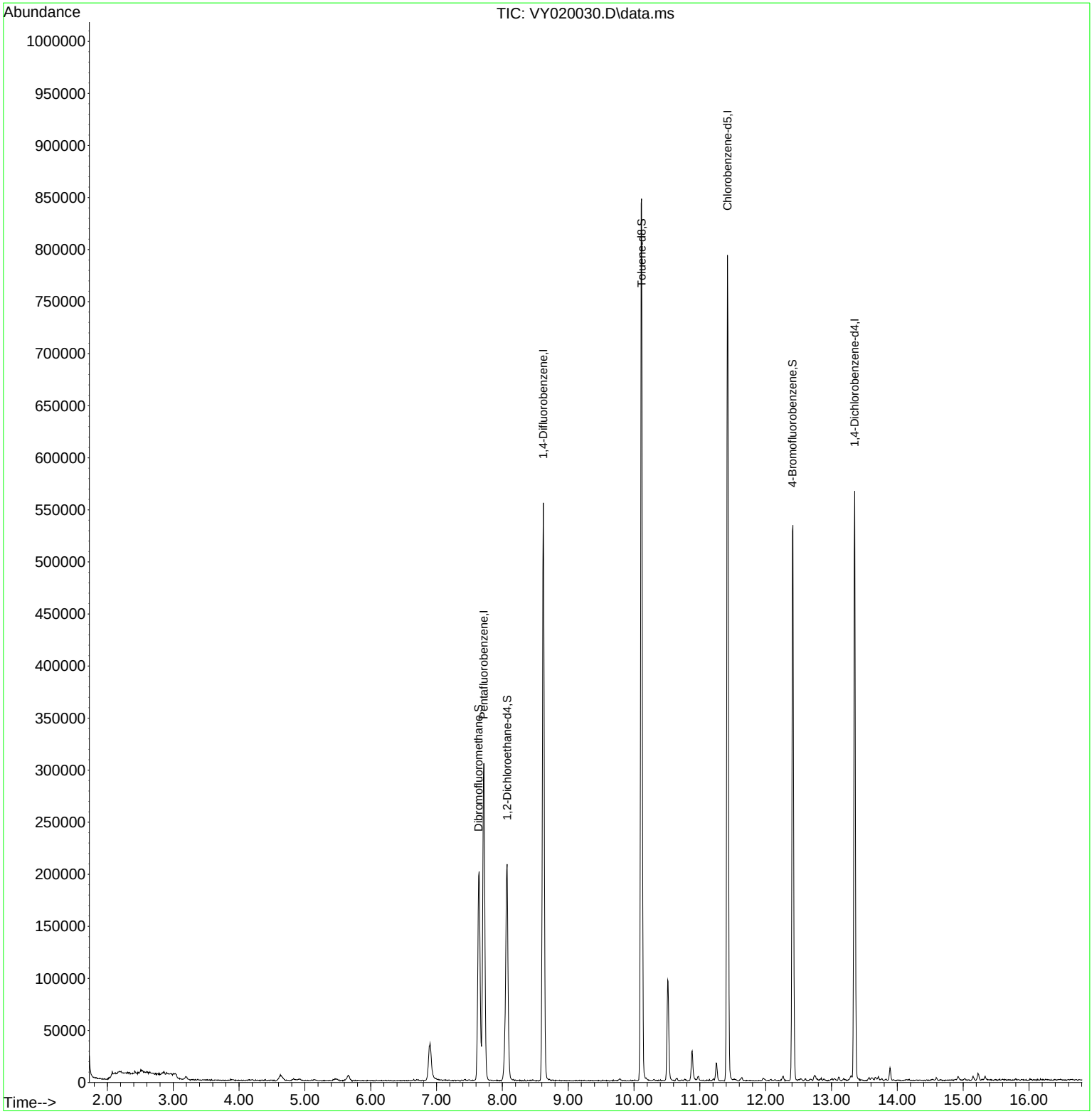
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	207569	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.621	114	438255	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	384846	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	125121	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	145762	57.032	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.060%			
35) Dibromofluoromethane	7.640	113	143476	49.611	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.220%			
50) Toluene-d8	10.115	98	534715	50.068	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.140%			
62) 4-Bromofluorobenzene	12.407	95	152249	39.454	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 78.900%			
Target Compounds						Qvalue

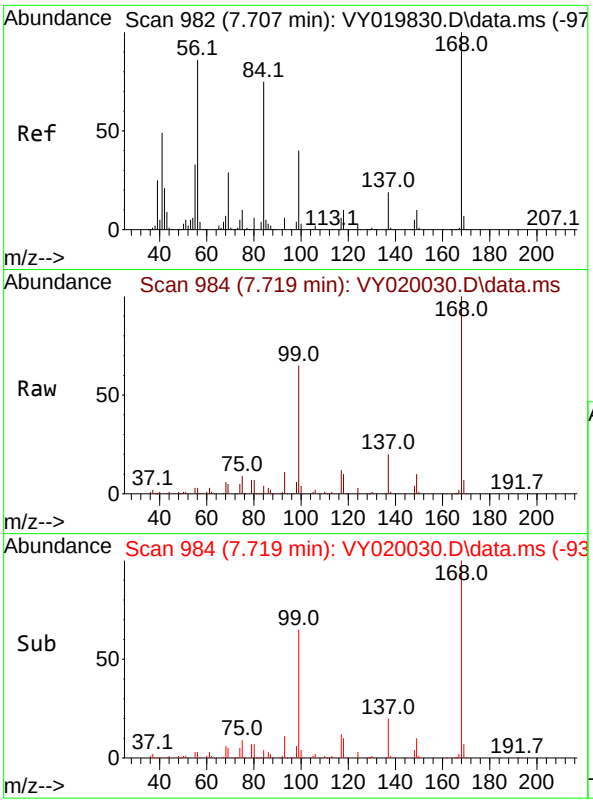
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Quant Time: Oct 29 01:53:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



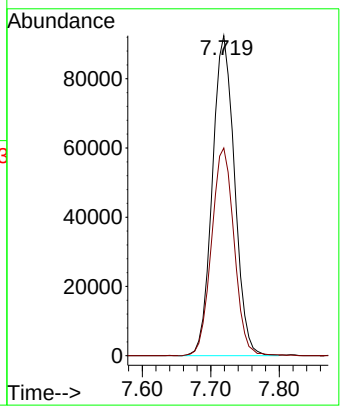


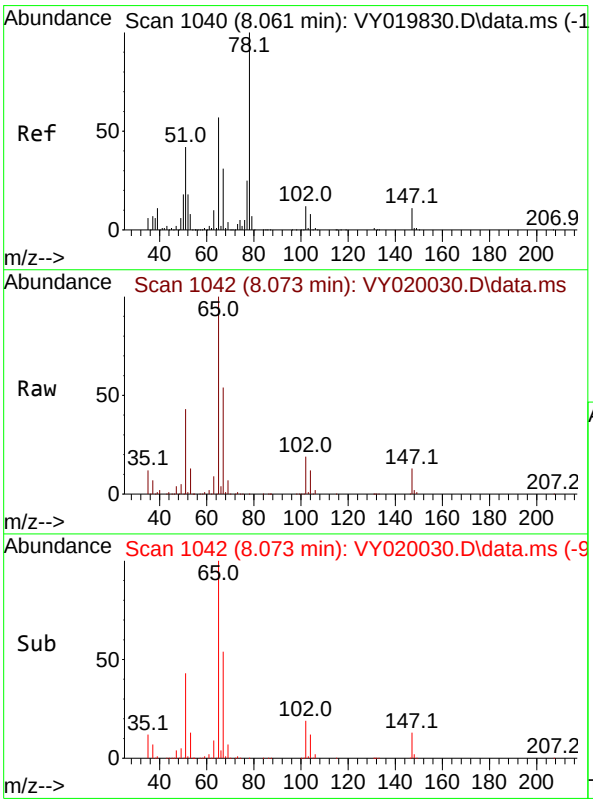
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Tgt Ion:168 Resp: 207569

Ion	Ratio	Lower	Upper
168	100		
99	64.9	39.1	58.7#

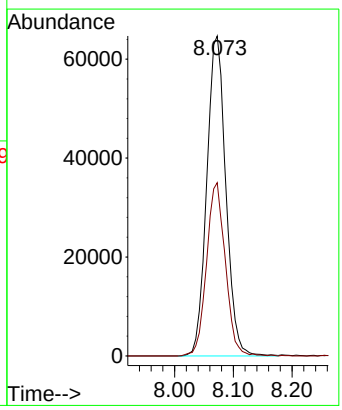


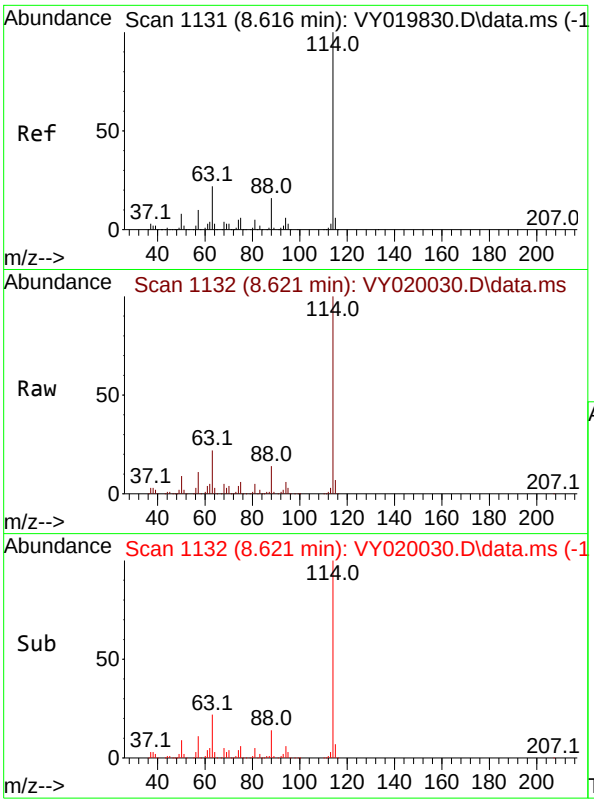


#33
1,2-Dichloroethane-d4
Concen: 57.032 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

Tgt Ion: 65 Resp: 145762

Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	109.6



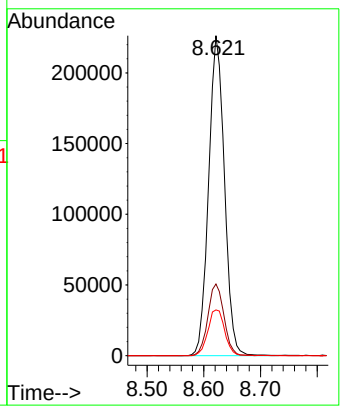


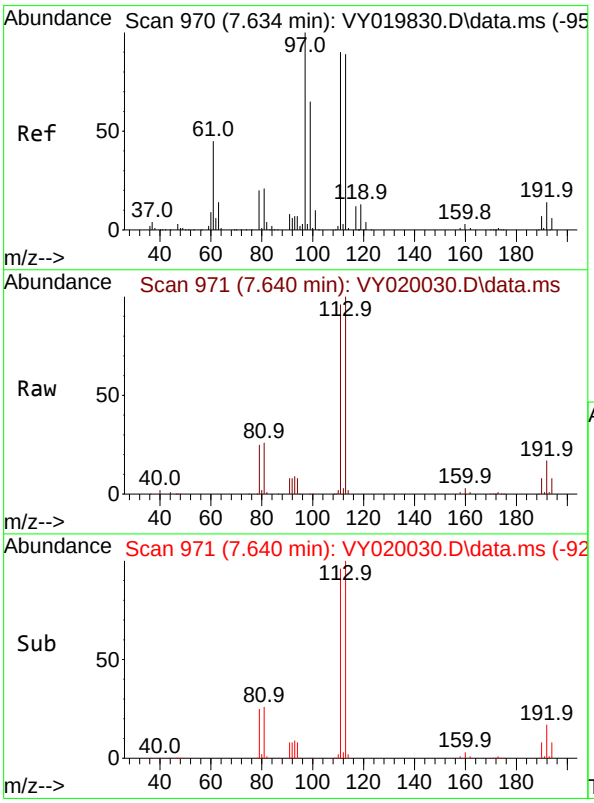
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Tgt Ion:114 Resp: 438255

Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	35.0
88	14.3	0.0	27.2

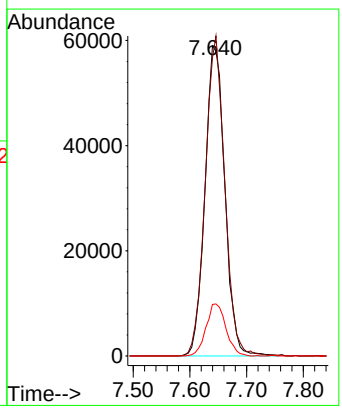


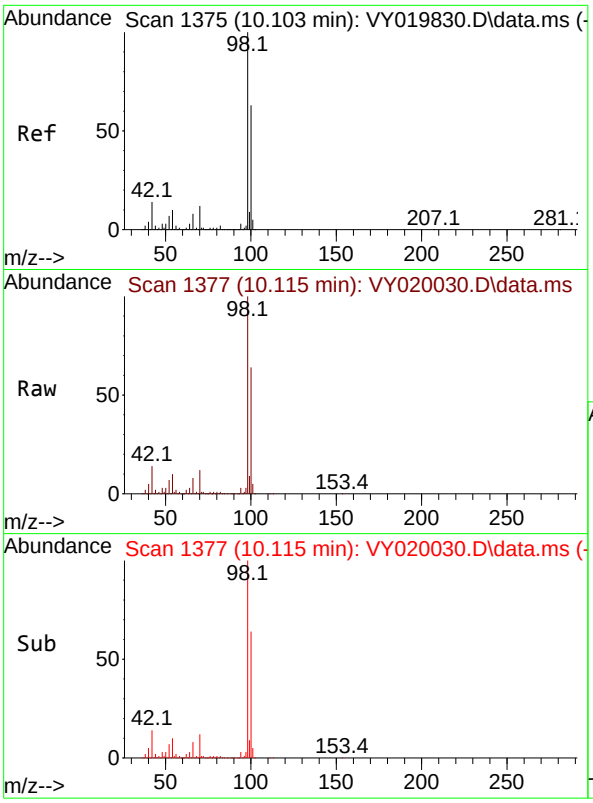


#35
Dibromofluoromethane
Concen: 49.611 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

Tgt Ion:113 Resp: 143476

Ion	Ratio	Lower	Upper
113	100		
111	101.1	82.2	123.4
192	16.8	15.9	23.9



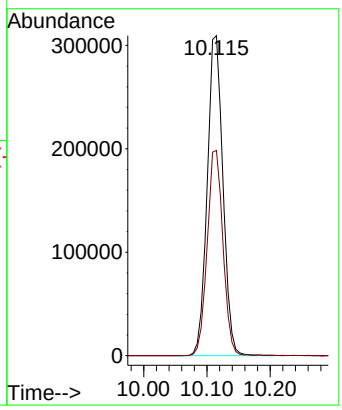


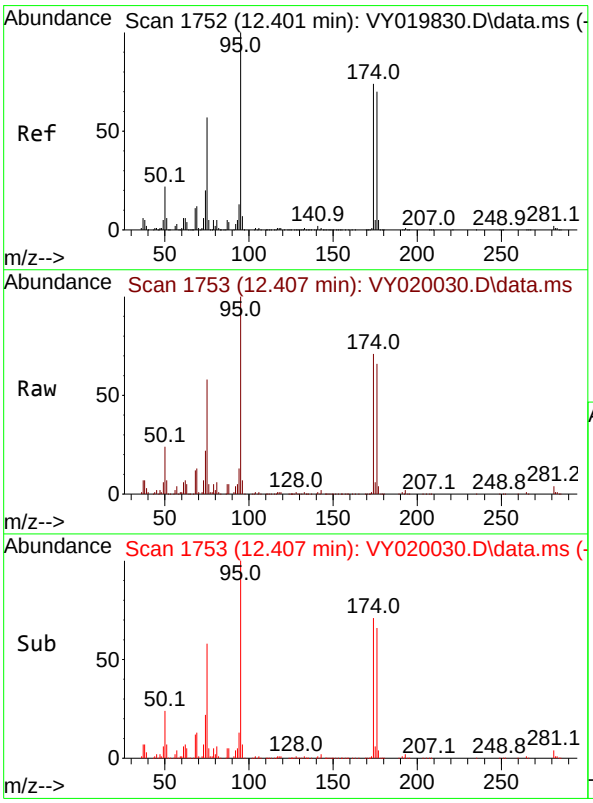
#50
Toluene-d8
Concen: 50.068 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Tgt Ion: 98 Resp: 534715

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0

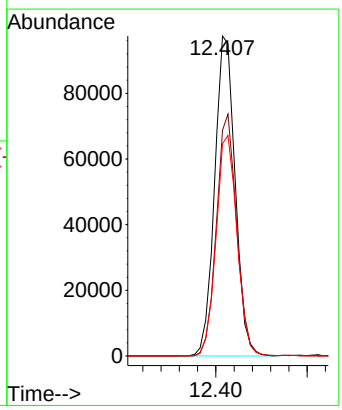


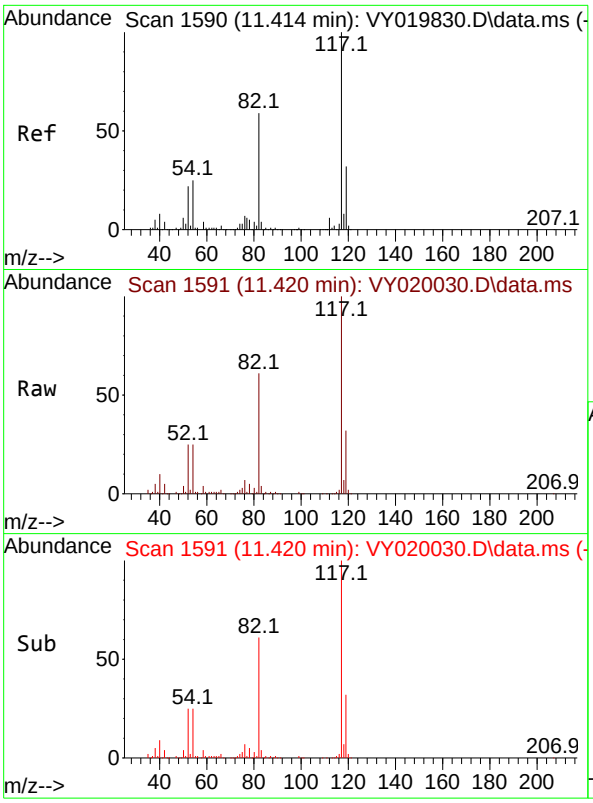


#62
4-Bromofluorobenzene
Concen: 39.454 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

Tgt Ion: 95 Resp: 152249

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	175.6
176	70.1	0.0	171.4



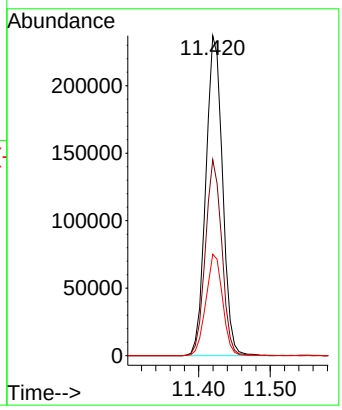


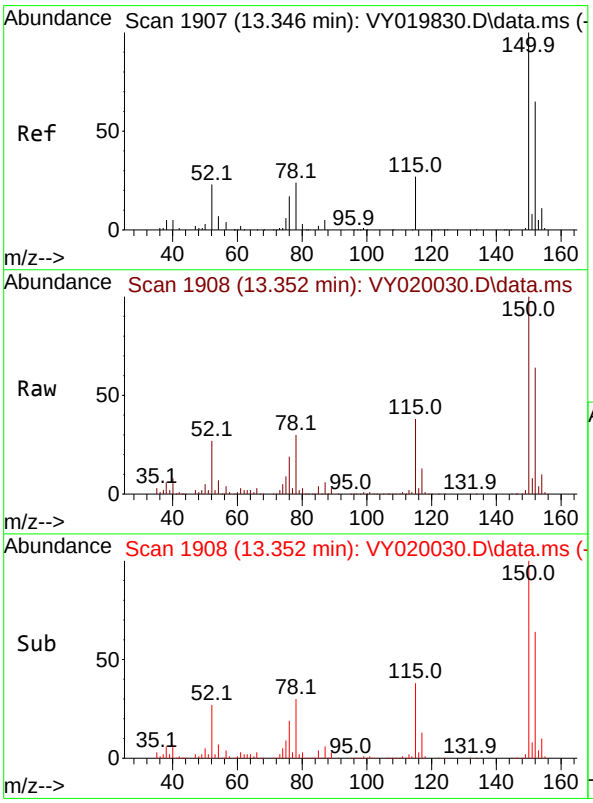
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Tgt Ion:117 Resp: 384846

Ion	Ratio	Lower	Upper
117	100		
82	61.3	42.4	63.6
119	31.7	25.9	38.9

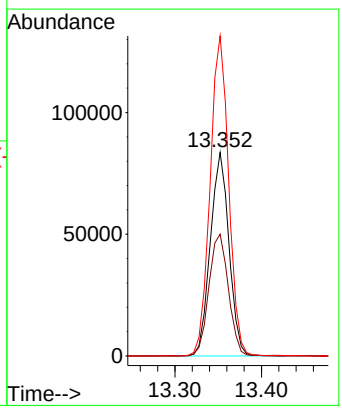




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

Tgt Ion:152 Resp: 125121

Ion	Ratio	Lower	Upper
152	100		
115	62.6	28.2	84.7
150	156.2	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

Signal : TIC: VY020030.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.902	839	850	864	rBV2	35515	113675	7.68%	1.472%
2	7.646	959	972	978	rBV	200596	491847	33.22%	6.368%
3	7.719	978	984	997	rVB	304675	685821	46.32%	8.880%
4	8.073	1027	1042	1056	rBV2	208197	538994	36.41%	6.979%
5	8.621	1124	1132	1146	rBV	554936	1087273	73.44%	14.078%
6	10.115	1369	1377	1387	rBV	846519	1480520	100.00%	19.169%
7	10.511	1436	1442	1452	rBV	96019	178229	12.04%	2.308%
8	10.883	1497	1503	1512	rBV2	28409	53862	3.64%	0.697%
9	11.249	1558	1563	1571	rVB2	16990	30086	2.03%	0.390%
10	11.420	1584	1591	1604	rBV	793153	1290157	87.14%	16.704%
11	12.413	1744	1754	1763	rBV2	533471	894783	60.44%	11.585%
12	13.352	1901	1908	1917	rVB	564852	859816	58.08%	11.133%
13	13.889	1990	1996	2001	rVB	12041	18393	1.24%	0.238%

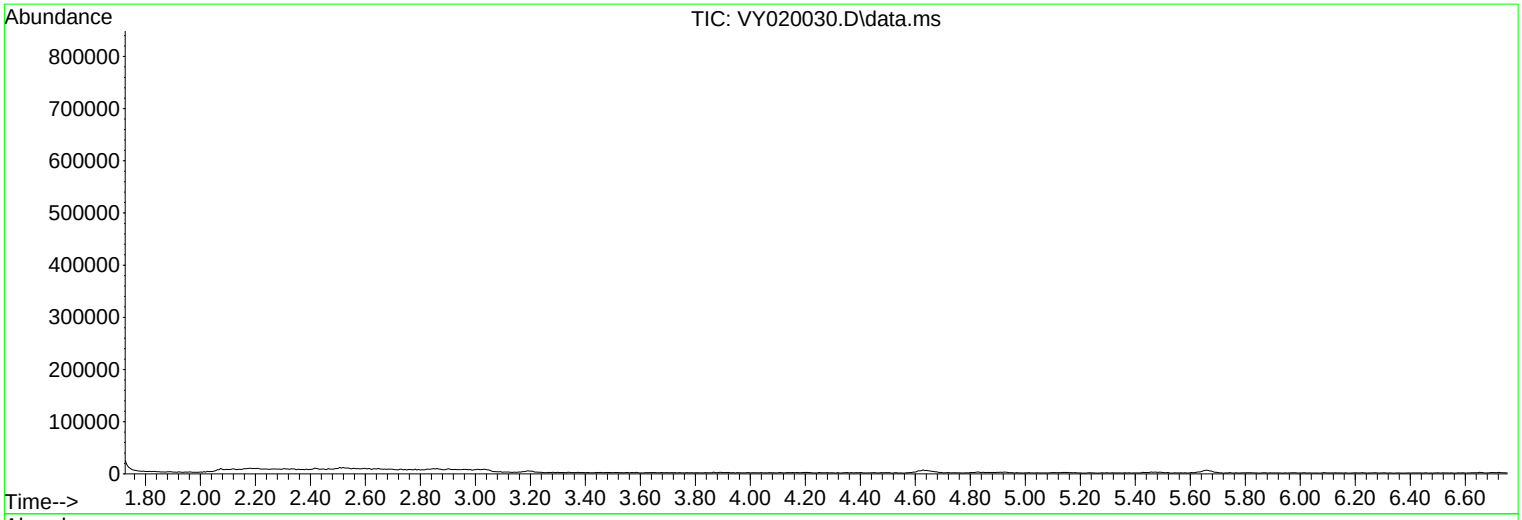
Sum of corrected areas: 7723456

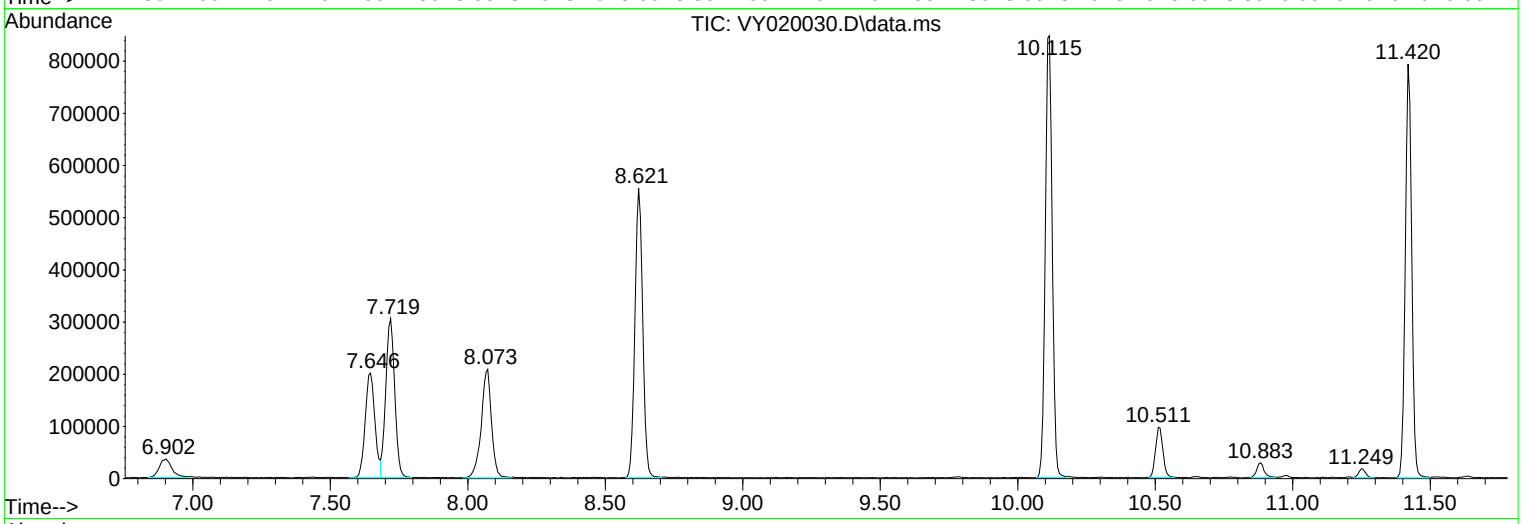
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

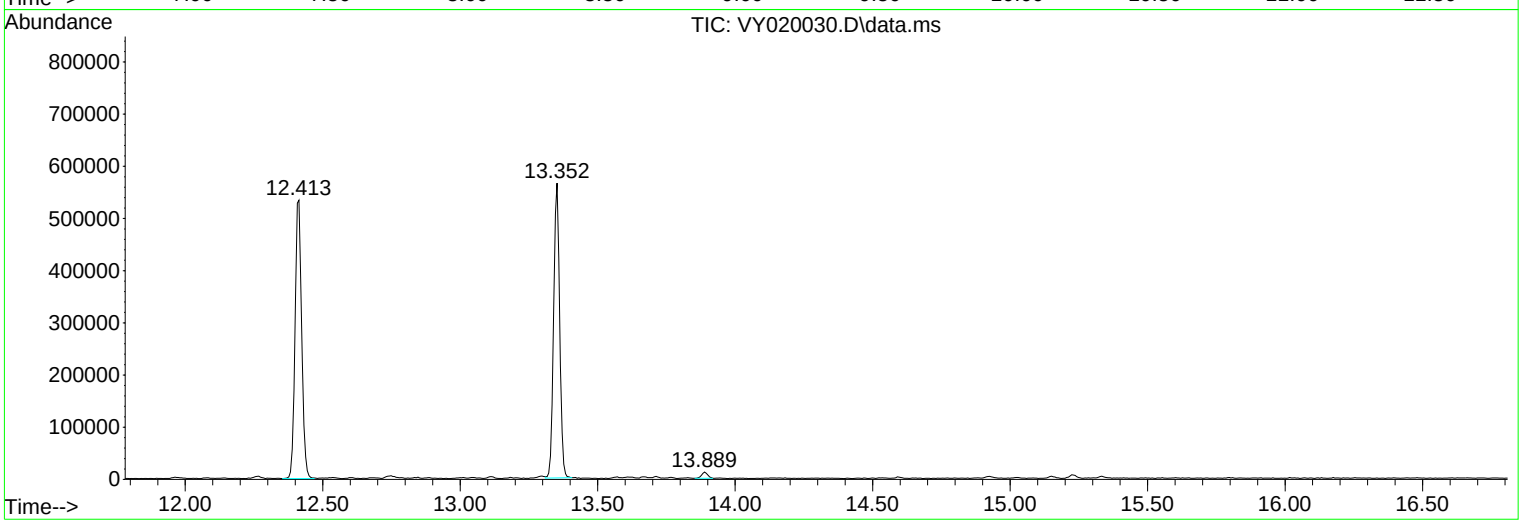
Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020050.D
Acq On : 29 Oct 2024 10:01
Operator : SY/MD
Sample : VY1029SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Quant Time: Oct 30 01:19:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

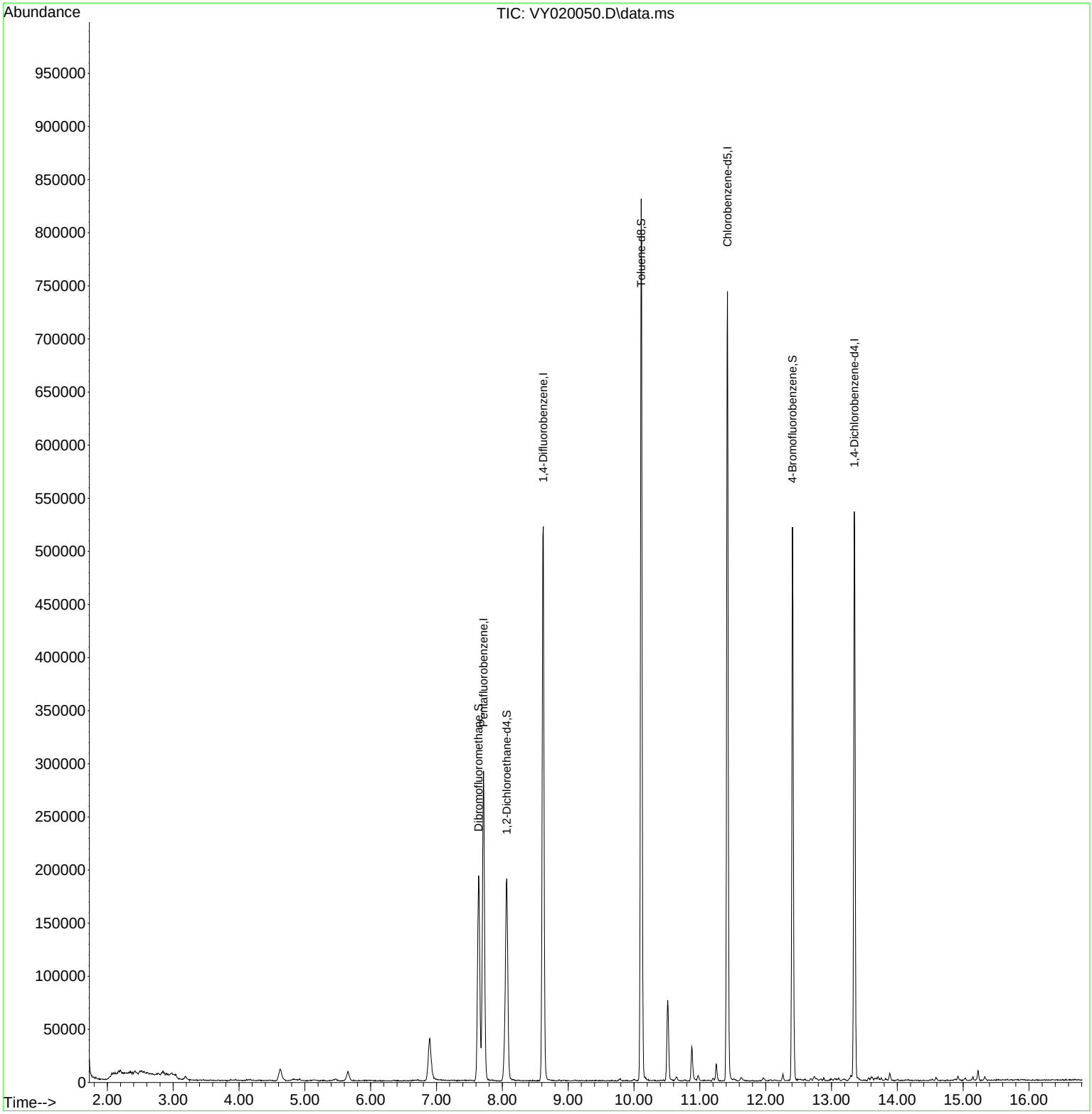
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	196117	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.622	114	412090	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	365725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	118867	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	133469	55.272	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.540%			
35) Dibromofluoromethane	7.640	113	134846	49.588	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.180%			
50) Toluene-d8	10.109	98	508625	50.649	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.300%			
62) 4-Bromofluorobenzene	12.407	95	143274	39.485	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 78.980%			
Target Compounds						Qvalue

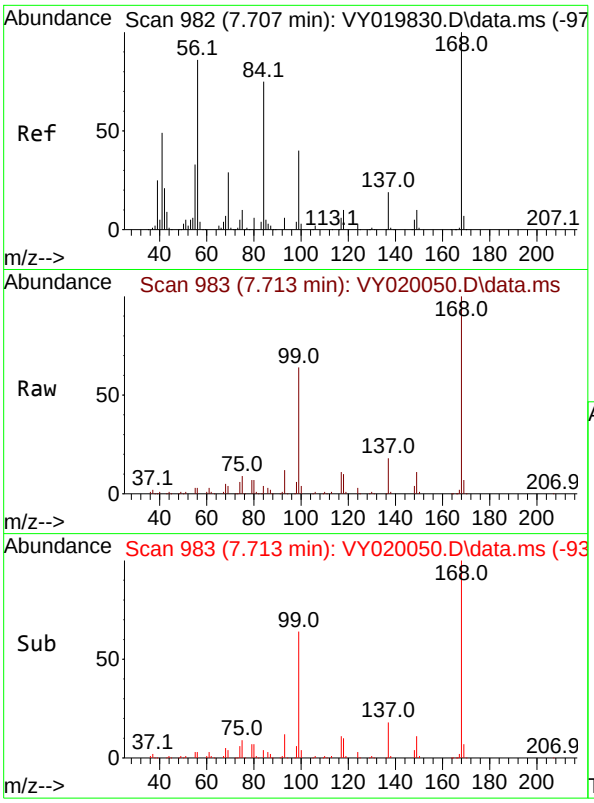
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020050.D
Acq On : 29 Oct 2024 10:01
Operator : SY/MD
Sample : VY1029SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Quant Time: Oct 30 01:19:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



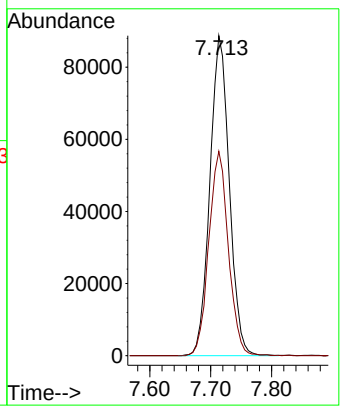


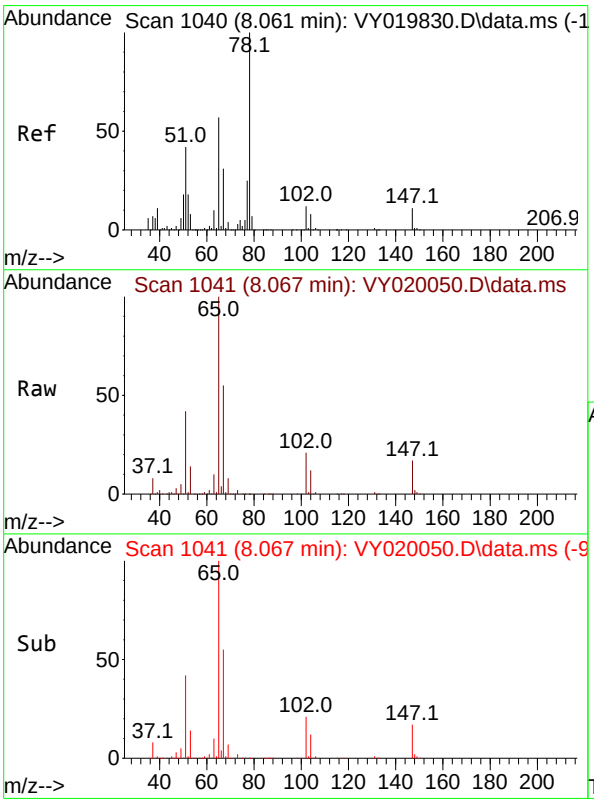
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Tgt Ion:168 Resp: 196117

Ion	Ratio	Lower	Upper
168	100		
99	63.9	39.1	58.7#

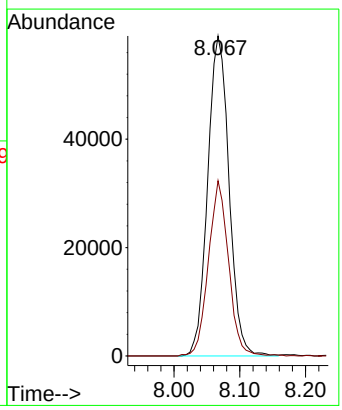


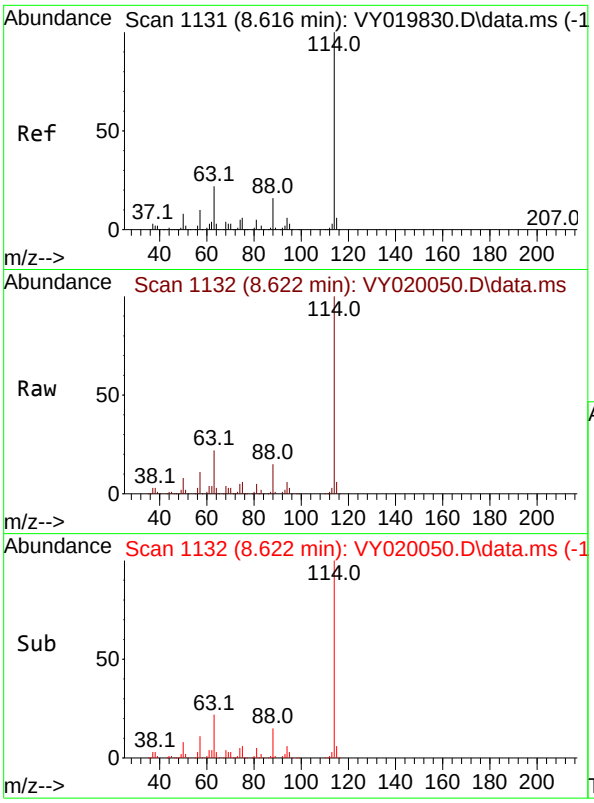


#33
1,2-Dichloroethane-d4
Concen: 55.272 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

Tgt Ion: 65 Resp: 133469

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	109.6



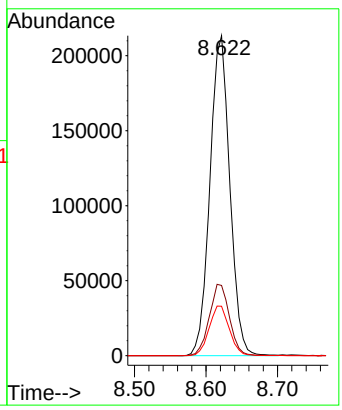


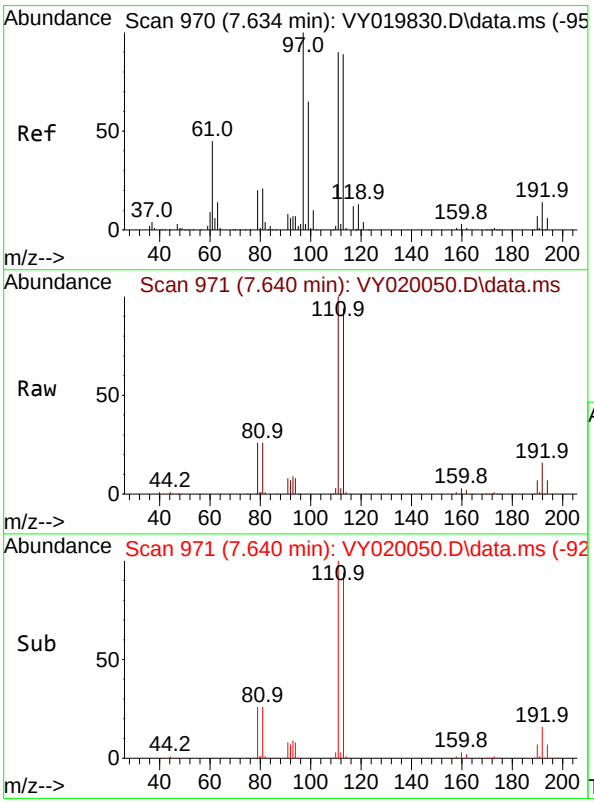
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Tgt Ion:114 Resp: 412090

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	35.0
88	15.4	0.0	27.2

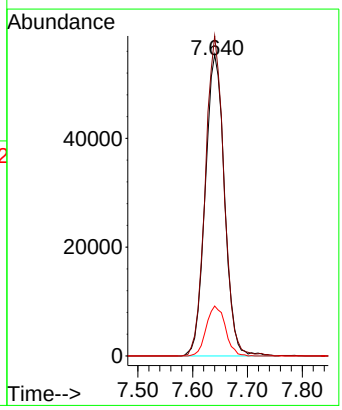


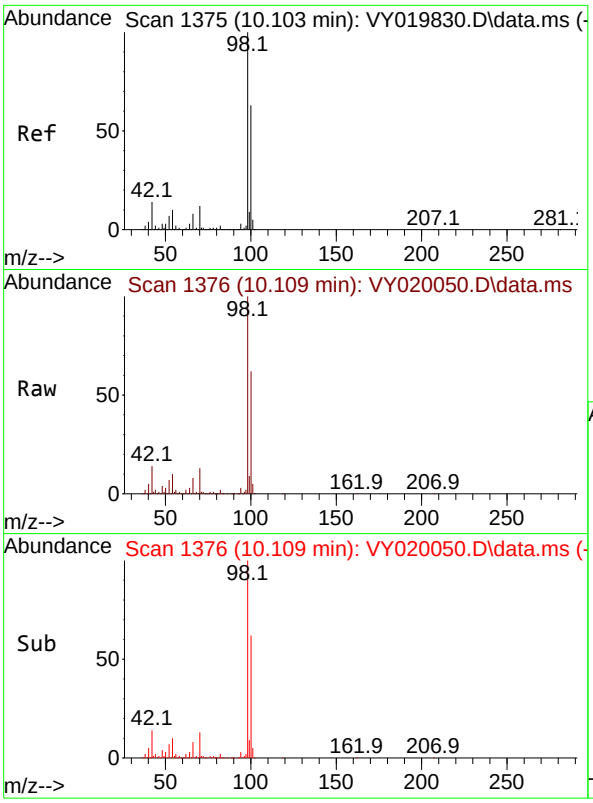


#35
Dibromofluoromethane
Concen: 49.588 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

Tgt Ion:113 Resp: 134846

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.4
192	16.4	15.9	23.9



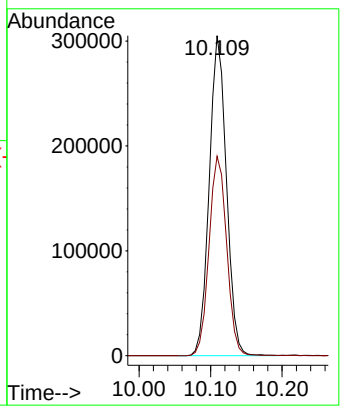


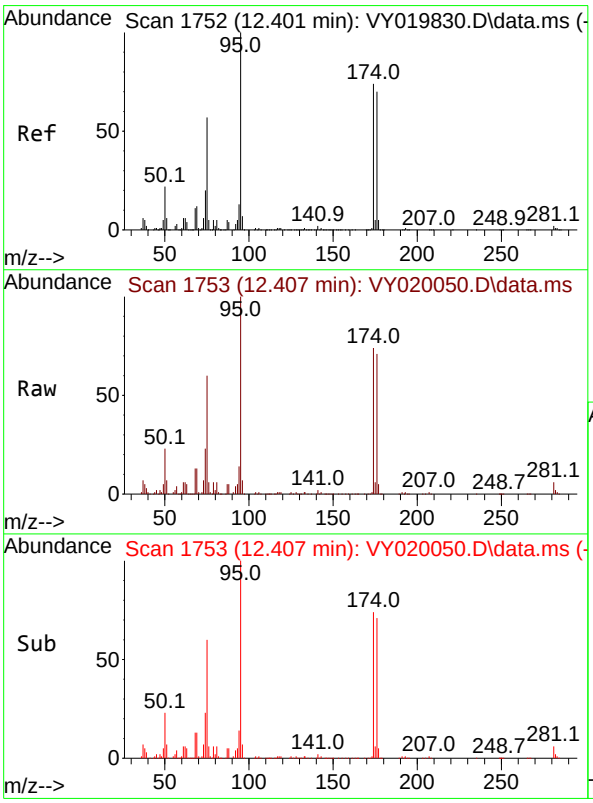
#50
Toluene-d8
Concen: 50.649 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Tgt Ion: 98 Resp: 508625

Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.0	78.0

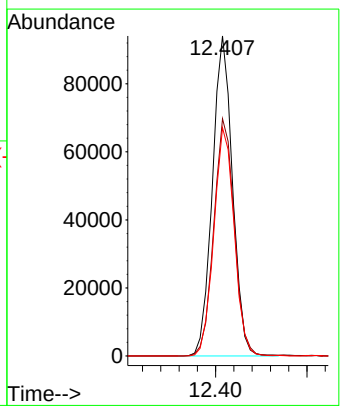


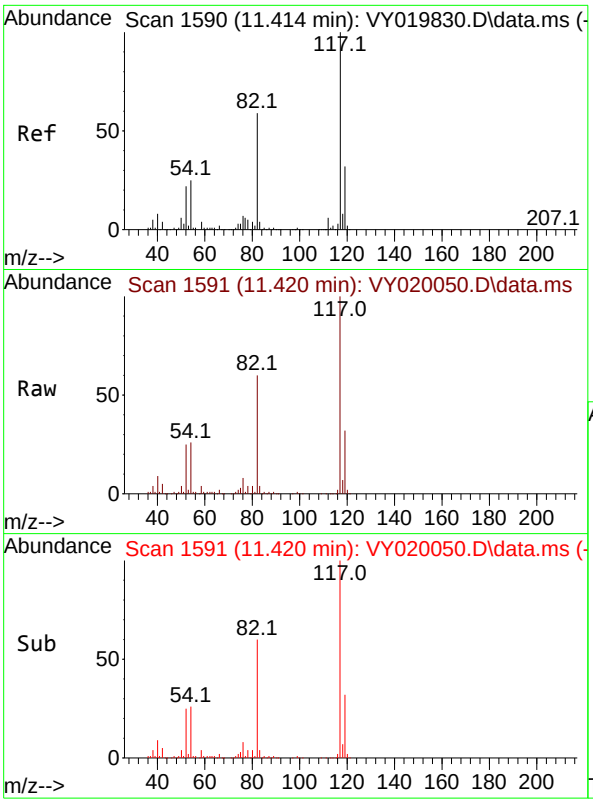


#62
4-Bromofluorobenzene
Concen: 39.485 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

Tgt Ion: 95 Resp: 143274

Ion	Ratio	Lower	Upper
95	100		
174	75.9	0.0	175.6
176	72.4	0.0	171.4



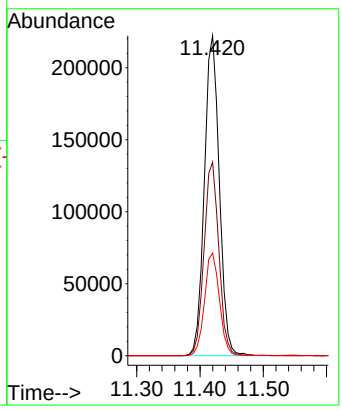


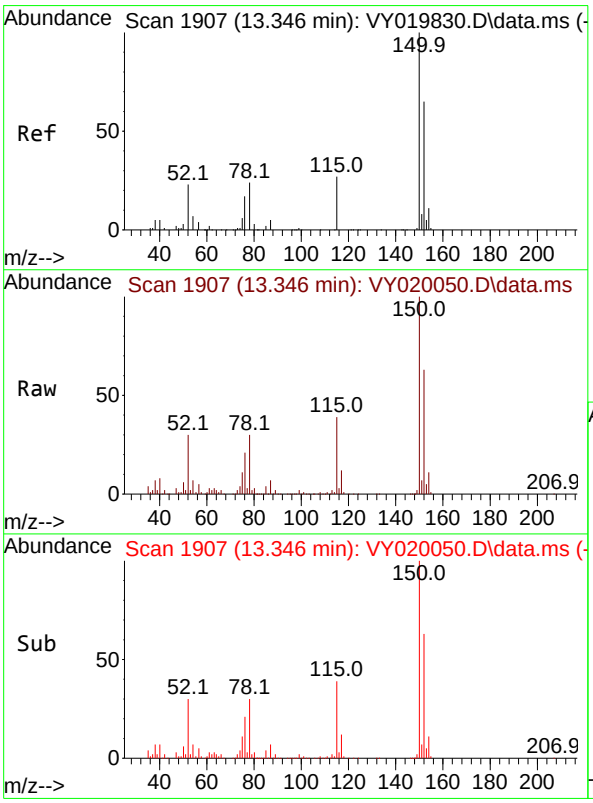
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Tgt Ion:117 Resp: 365725

Ion	Ratio	Lower	Upper
117	100		
82	60.5	42.4	63.6
119	32.0	25.9	38.9

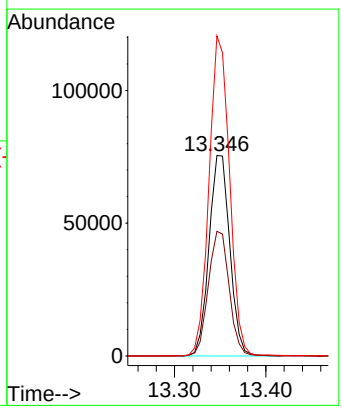




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

Tgt Ion:152 Resp: 118867

Ion	Ratio	Lower	Upper
152	100		
115	62.6	28.2	84.7
150	158.3	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020050.D
Acq On : 29 Oct 2024 10:01
Operator : SY/MD
Sample : VY1029SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

Signal : TIC: VY020050.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	467	476	488	rBV3	10963	37151	2.64%	0.502%
2	5.653	633	645	656	rBV4	8884	26206	1.86%	0.354%
3	6.896	836	849	859	rBV	39784	127002	9.02%	1.717%
4	7.640	960	971	977	rBV	193487	465592	33.08%	6.296%
5	7.713	977	983	994	rVB	290875	650769	46.23%	8.800%
6	8.067	1028	1041	1051	rBV3	190159	503539	35.77%	6.809%
7	8.622	1123	1132	1145	rBV	521902	1033912	73.45%	13.981%
8	10.109	1368	1376	1385	rBV	830104	1407685	100.00%	19.035%
9	10.511	1434	1442	1454	rBV2	75997	144858	10.29%	1.959%
10	10.877	1496	1502	1512	rBV	31948	58416	4.15%	0.790%
11	11.249	1558	1563	1572	rVB3	15740	26303	1.87%	0.356%
12	11.420	1582	1591	1603	rBV	743130	1228749	87.29%	16.615%
13	12.407	1745	1753	1763	rBV2	520978	840669	59.72%	11.368%
14	13.346	1901	1907	1914	rVB	533404	828857	58.88%	11.208%
15	15.224	2209	2215	2221	rVB3	9743	15586	1.11%	0.211%

Sum of corrected areas: 7395294

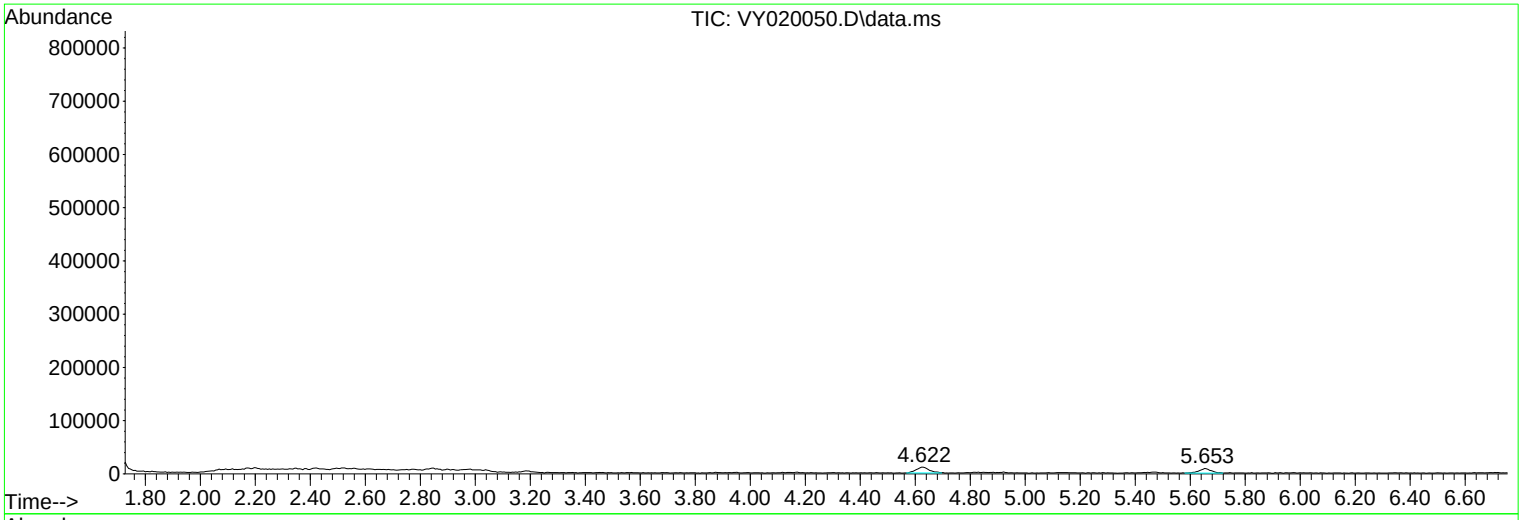
Sample Results: **VY020050.D**

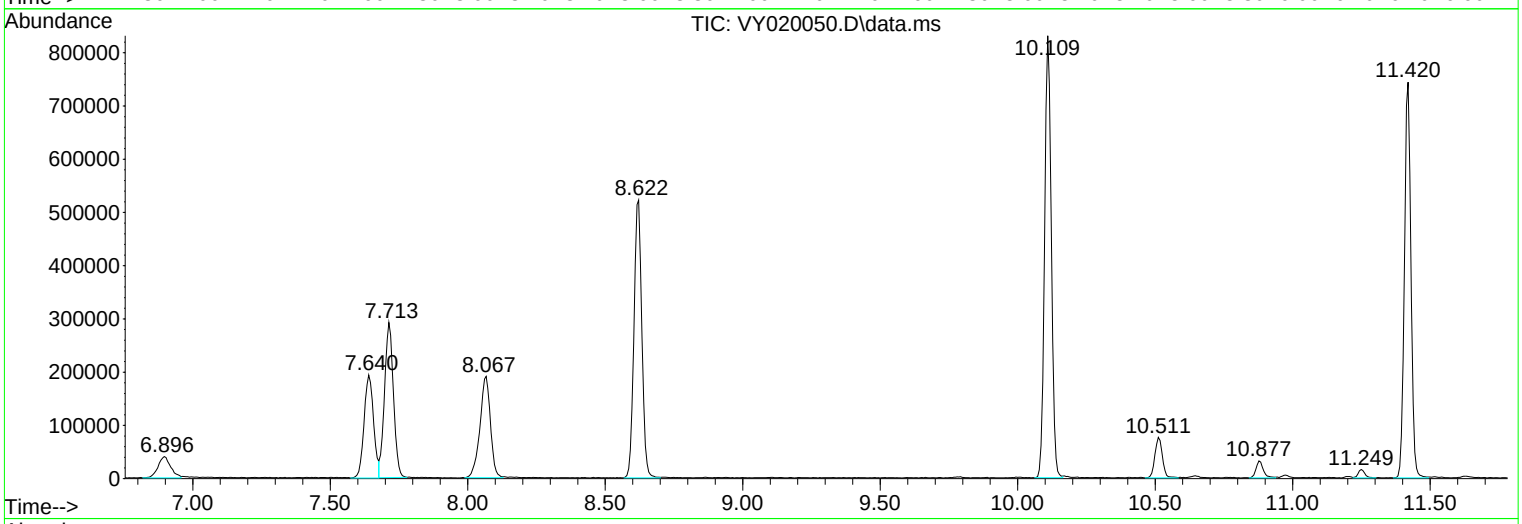
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020050.D
Acq On : 29 Oct 2024 10:01
Operator : SY/MD
Sample : VY1029SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

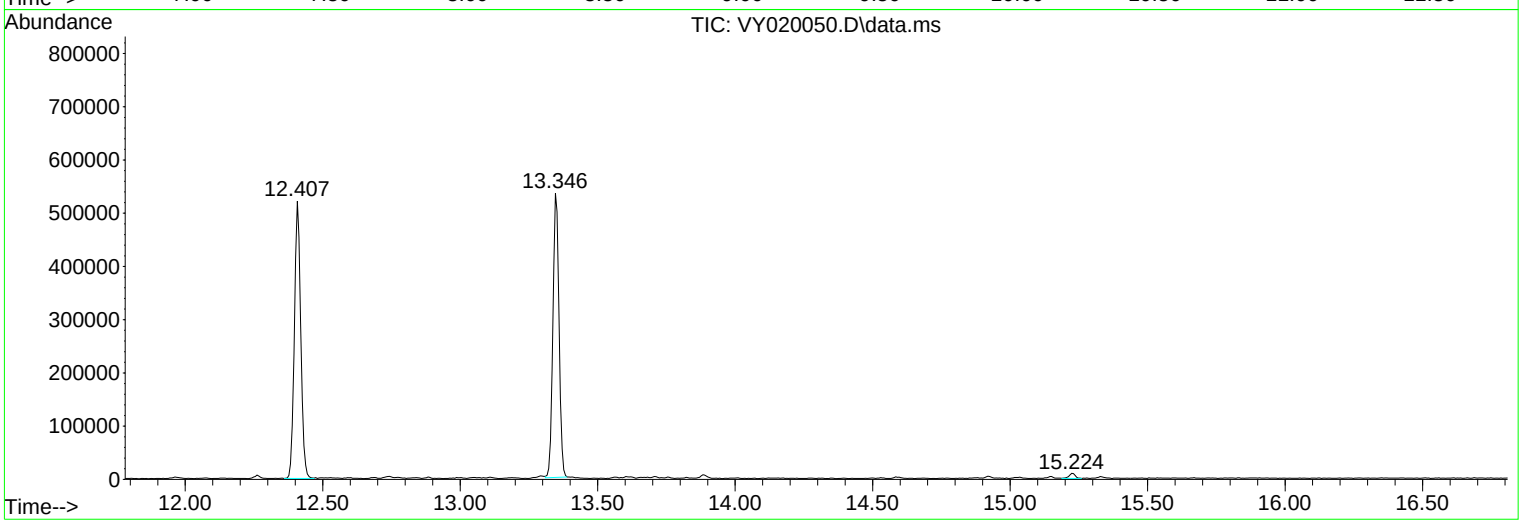
Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020050.D
Acq On : 29 Oct 2024 10:01
Operator : SY/MD
Sample : VY1029SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020050.D
Acq On : 29 Oct 2024 10:01
Operator : SY/MD
Sample : VY1029SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043586.D
Acq On : 29 Oct 2024 10:57
Operator : JC/MD
Sample : VX1029WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 01:26:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	202431	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	352202	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	294857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	142936	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	135908	42.105	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	84.220%		
35) Dibromofluoromethane	5.379	113	111394	46.642	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.280%		
50) Toluene-d8	8.647	98	399169	48.283	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.560%		
62) 4-Bromofluorobenzene	11.079	95	144111	47.042	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.080%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	40027	18.489	ug/l	100
3) Chloromethane	1.294	50	44310	16.012	ug/l	92
4) Vinyl Chloride	1.374	62	46678	18.174	ug/l	99
5) Bromomethane	1.593	94	18192	17.375	ug/l	97
6) Chloroethane	1.660	64	17156m	18.960	ug/l	
7) Trichlorofluoromethane	1.861	101	64804	20.654	ug/l	98
8) Diethyl Ether	2.136	74	25896	17.863	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	45384	21.388	ug/l	99
10) Methyl Iodide	2.440	142	57476	18.748	ug/l	97
11) Tert butyl alcohol	3.007	59	56407m	93.626	ug/l	
12) 1,1-Dichloroethene	2.306	96	42035	19.385	ug/l	92
13) Acrolein	2.239	56	40906	86.821	ug/l	99
14) Allyl chloride	2.654	41	68347	18.223	ug/l	96
15) Acrylonitrile	3.068	53	115840	85.162	ug/l	99
16) Acetone	2.386	43	118332	92.319	ug/l	98
17) Carbon Disulfide	2.501	76	82388	18.170	ug/l	100
18) Methyl Acetate	2.703	43	60142	16.054	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	143107	17.354	ug/l	100
20) Methylene Chloride	2.782	84	47149	17.068	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	44262	19.321	ug/l	97
22) Diisopropyl ether	3.757	45	139725	18.024	ug/l	92
23) Vinyl Acetate	3.721	43	571697	89.264	ug/l	99
24) 1,1-Dichloroethane	3.605	63	79799	17.909	ug/l	98
25) 2-Butanone	4.556	43	160914	86.062	ug/l	99
26) 2,2-Dichloropropane	4.465	77	72610	19.908	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	53987	18.448	ug/l	99
28) Bromochloromethane	4.891	49	37071	17.489	ug/l	96
29) Tetrahydrofuran	5.007	42	100228	82.487	ug/l	98
30) Chloroform	5.086	83	84330	18.055	ug/l	99
31) Cyclohexane	5.458	56	69310	20.338	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	76151	19.420	ug/l	99
36) 1,1-Dichloropropene	5.684	75	56285	19.875	ug/l	98
37) Ethyl Acetate	4.714	43	60171	17.501	ug/l	98
38) Carbon Tetrachloride	5.666	117	62906	20.104	ug/l	97
39) Methylcyclohexane	7.373	83	75030	21.340	ug/l	99
40) Benzene	6.031	78	178716	18.917	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043586.D
Acq On : 29 Oct 2024 10:57
Operator : JC/MD
Sample : VX1029WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 01:26:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	33159	18.374	ug/l		97
42) 1,2-Dichloroethane	6.080	62	62263	18.332	ug/l		99
43) Isopropyl Acetate	6.336	43	100112	17.607	ug/l		100
44) Trichloroethene	7.123	130	46116	19.649	ug/l		95
45) 1,2-Dichloropropane	7.427	63	42277	18.174	ug/l		100
46) Dibromomethane	7.580	93	32080	17.910	ug/l		96
47) Bromodichloromethane	7.818	83	57532	18.310	ug/l		99
48) Methyl methacrylate	7.696	41	48326	17.927	ug/l		98
49) 1,4-Dioxane	7.671	88	23130	417.634	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	312558	90.192	ug/l		99
52) Toluene	8.714	92	113851	19.871	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	59568	17.650	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	70181	19.517	ug/l		96
55) 1,1,2-Trichloroethane	9.153	97	44829	18.797	ug/l		93
56) Ethyl methacrylate	9.116	69	69497	17.934	ug/l		98
57) 1,3-Dichloropropane	9.305	76	74400	18.757	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	172110	91.703	ug/l		99
59) 2-Hexanone	9.433	43	240151	91.242	ug/l		100
60) Dibromochloromethane	9.518	129	44184	18.709	ug/l		98
61) 1,2-Dibromoethane	9.610	107	45897	18.539	ug/l		96
64) Tetrachloroethene	9.269	164	39340	21.213	ug/l		98
65) Chlorobenzene	10.079	112	123286	19.435	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	40788	19.685	ug/l		99
67) Ethyl Benzene	10.195	91	209043	20.209	ug/l		100
68) m/p-Xylenes	10.299	106	160547	40.586	ug/l		99
69) o-Xylene	10.640	106	79997	20.128	ug/l		99
70) Styrene	10.652	104	133590	20.223	ug/l		99
71) Bromoform	10.799	173	26501	17.788	ug/l	#	96
73) Isopropylbenzene	10.963	105	207962	20.539	ug/l		100
74) N-amyl acetate	10.841	43	89068	18.058	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	67422	18.518	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	54362m	17.788	ug/l		
77) Bromobenzene	11.195	156	50119	19.170	ug/l		99
78) n-propylbenzene	11.305	91	227750	20.630	ug/l		99
79) 2-Chlorotoluene	11.360	91	143898	19.657	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	171034	20.260	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	19932	17.942	ug/l		96
82) 4-Chlorotoluene	11.451	91	162418	19.767	ug/l		96
83) tert-Butylbenzene	11.713	119	176326	20.537	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	176438	20.508	ug/l		99
85) sec-Butylbenzene	11.890	105	214438	21.308	ug/l		100
86) p-Isopropyltoluene	12.006	119	180325	21.080	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	92275	19.691	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	93923	19.343	ug/l		99
89) n-Butylbenzene	12.329	91	148112	21.249	ug/l		99
90) Hexachloroethane	12.536	117	28082	20.210	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	92312	19.265	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	12277	16.540	ug/l		94
93) 1,2,4-Trichlorobenzene	13.585	180	55722	19.158	ug/l		98
94) Hexachlorobutadiene	13.725	225	22819	21.279	ug/l		98
95) Naphthalene	13.774	128	207496	18.643	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	57807	18.850	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043586.D
Acq On : 29 Oct 2024 10:57
Operator : JC/MD
Sample : VX1029WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 01:26:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

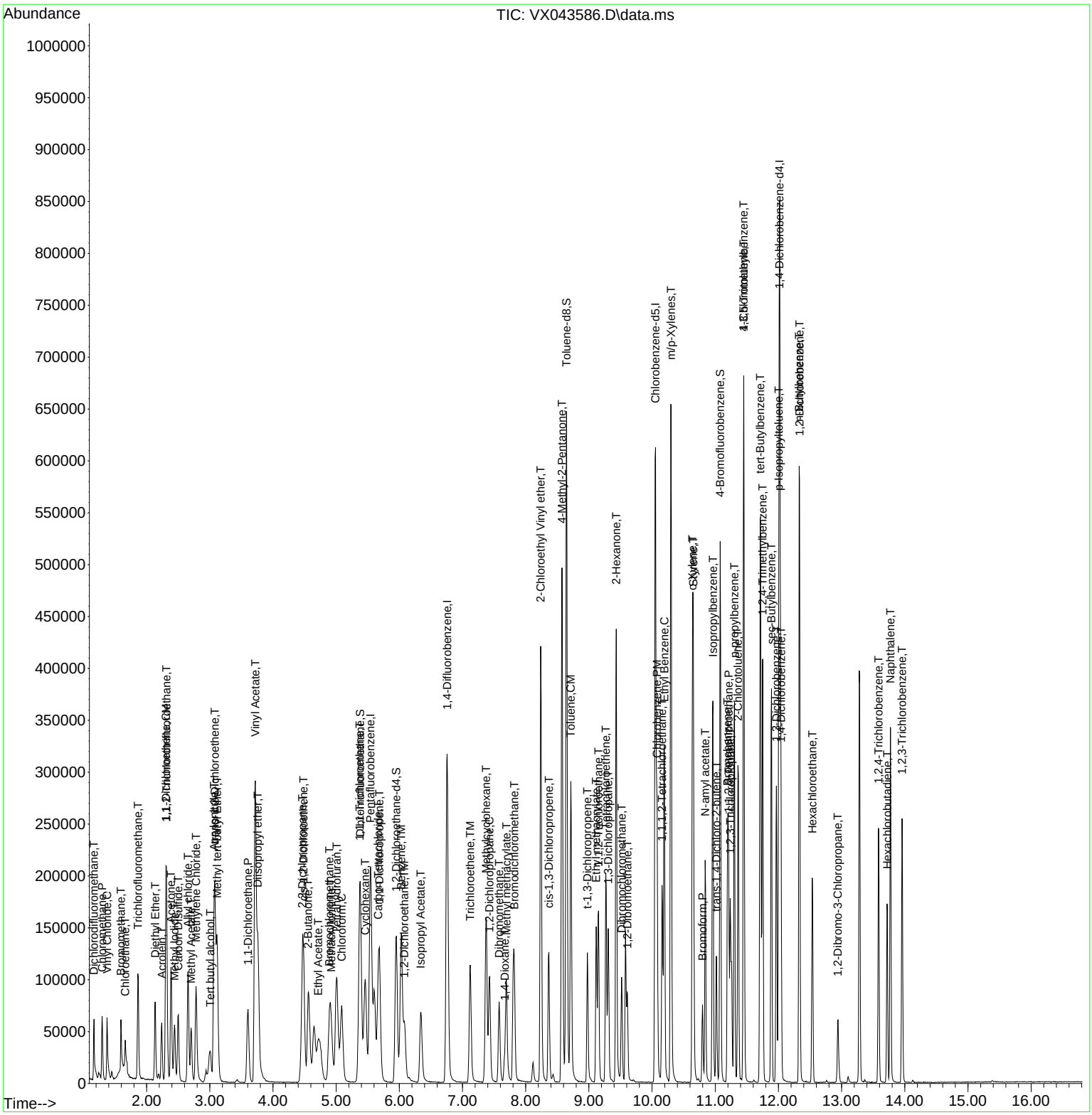
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043586.D
Acq On : 29 Oct 2024 10:57
Operator : JC/MD
Sample : VX1029WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 01:26:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020031.D
Acq On : 28 Oct 2024 10:40
Operator : SY/MD
Sample : VY1028SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 01:53:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	208423	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.621	114	369952	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	306417	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	143516	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	134056	52.237	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.480%			
35) Dibromofluoromethane	7.646	113	134145	54.949	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 109.900%			
50) Toluene-d8	10.115	98	484561	53.749	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 107.500%			
62) 4-Bromofluorobenzene	12.413	95	170868	52.454	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 104.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	32741	16.875	ug/l	95
3) Chloromethane	2.080	50	40405	16.000	ug/l	97
4) Vinyl Chloride	2.214	62	49378	17.769	ug/l	99
5) Bromomethane	2.604	94	32411	18.427	ug/l	91
6) Chloroethane	2.744	64	35791	19.172	ug/l	98
7) Trichlorofluoromethane	3.074	101	79213	19.157	ug/l	96
8) Diethyl Ether	3.464	74	21456	17.073	ug/l	73
9) 1,1,2-Trichlorotrifluo...	3.830	101	51206	21.290	ug/l	90
10) Methyl Iodide	4.019	142	36576	15.036	ug/l #	89
11) Tert butyl alcohol	4.878	59	19390m	81.425	ug/l	
12) 1,1-Dichloroethene	3.799	96	40603	18.159	ug/l	84
13) Acrolein	3.671	56	11045	58.572	ug/l	96
14) Allyl chloride	4.403	41	77389	19.183	ug/l #	88
15) Acrylonitrile	5.079	53	55664	96.840	ug/l	99
16) Acetone	3.878	43	73950	110.695	ug/l #	83
17) Carbon Disulfide	4.116	76	65403	10.913	ug/l	99
18) Methyl Acetate	4.397	43	26614	18.494	ug/l #	87
19) Methyl tert-butyl Ether	5.134	73	122382	19.052	ug/l	99
20) Methylene Chloride	4.628	84	49423	19.531	ug/l #	80
21) trans-1,2-Dichloroethene	5.134	96	43296	17.791	ug/l	86
22) Diisopropyl ether	6.030	45	192552	21.912	ug/l #	89
23) Vinyl Acetate	5.976	43	482009	95.679	ug/l #	90
24) 1,1-Dichloroethane	5.933	63	108918	22.297	ug/l	95
25) 2-Butanone	6.908	43	92841	103.825	ug/l #	83
26) 2,2-Dichloropropane	6.902	77	94484	21.719	ug/l	93
27) cis-1,2-Dichloroethene	6.902	96	61550	20.466	ug/l	81
28) Bromochloromethane	7.256	49	42394	19.718	ug/l #	73
29) Tetrahydrofuran	7.274	42	45258	88.642	ug/l #	83
30) Chloroform	7.433	83	112858	22.665	ug/l	100
31) Cyclohexane	7.713	56	75507	17.609	ug/l	90
32) 1,1,1-Trichloroethane	7.628	97	96949	22.216	ug/l	95
36) 1,1-Dichloropropene	7.847	75	67811	19.280	ug/l	93
37) Ethyl Acetate	7.000	43	33231	18.120	ug/l	96
38) Carbon Tetrachloride	7.829	117	78408	20.796	ug/l	97
39) Methylcyclohexane	9.115	83	76409	17.242	ug/l	86
40) Benzene	8.091	78	210923	19.816	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020031.D
Acq On : 28 Oct 2024 10:40
Operator : SY/MD
Sample : VY1028SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 01:53:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.225	41	15612	15.729	ug/l		93
42) 1,2-Dichloroethane	8.170	62	62066	20.296	ug/l		94
43) Isopropyl Acetate	8.207	43	67982	18.176	ug/l	#	90
44) Trichloroethene	8.871	130	50034	19.408	ug/l		99
45) 1,2-Dichloropropane	9.146	63	56792	21.317	ug/l		99
46) Dibromomethane	9.237	93	27820	19.112	ug/l	#	88
47) Bromodichloromethane	9.432	83	84461	21.861	ug/l		97
48) Methyl methacrylate	9.231	41	30163	18.334	ug/l	#	80
49) 1,4-Dioxane	9.237	88	5600	343.739	ug/l	#	92
51) 4-Methyl-2-Pentanone	10.005	43	182942	95.896	ug/l		89
52) Toluene	10.176	92	135380	20.376	ug/l		100
53) t-1,3-Dichloropropene	10.402	75	68153	19.605	ug/l		100
54) cis-1,3-Dichloropropene	9.865	75	79294	19.331	ug/l	#	80
55) 1,1,2-Trichloroethane	10.578	97	40764	21.256	ug/l		97
56) Ethyl methacrylate	10.444	69	50145	18.223	ug/l	#	73
57) 1,3-Dichloropropane	10.725	76	68783	20.423	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.719	63	116854	91.218	ug/l		93
59) 2-Hexanone	10.767	43	139215	102.172	ug/l		86
60) Dibromochloromethane	10.920	129	50323	20.444	ug/l		98
61) 1,2-Dibromoethane	11.017	107	32941	19.008	ug/l		99
64) Tetrachloroethene	10.652	164	41223	18.914	ug/l		94
65) Chlorobenzene	11.444	112	146521	20.906	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.523	131	52164	21.999	ug/l		99
67) Ethyl Benzene	11.523	91	273403	21.475	ug/l		97
68) m/p-Xylenes	11.633	106	197834	42.075	ug/l		92
69) o-Xylene	11.962	106	95240	21.082	ug/l		91
70) Styrene	11.974	104	163782	21.488	ug/l		96
71) Bromoform	12.139	173	25328	19.953	ug/l	#	97
73) Isopropylbenzene	12.261	105	270812	22.434	ug/l		99
74) N-amyl acetate	12.078	43	59166	18.505	ug/l	#	86
75) 1,1,2,2-Tetrachloroethane	12.511	83	45204	21.074	ug/l		98
76) 1,2,3-Trichloropropane	12.560	75	31676m	11.267	ug/l		
77) Bromobenzene	12.535	156	53070	20.717	ug/l		85
78) n-propylbenzene	12.602	91	327444	22.449	ug/l		97
79) 2-Chlorotoluene	12.682	91	185564	22.191	ug/l		93
80) 1,3,5-Trimethylbenzene	12.743	105	211518	21.697	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.310	75	13167	18.904	ug/l	#	79
82) 4-Chlorotoluene	12.779	91	185341	21.676	ug/l		96
83) tert-Butylbenzene	13.005	119	203719	23.326	ug/l		96
84) 1,2,4-Trimethylbenzene	13.047	105	208878	21.611	ug/l		97
85) sec-Butylbenzene	13.182	105	306734	23.507	ug/l		97
86) p-Isopropyltoluene	13.297	119	235156	22.193	ug/l		96
87) 1,3-Dichlorobenzene	13.291	146	110209	21.304	ug/l		97
88) 1,4-Dichlorobenzene	13.371	146	108346	21.319	ug/l		96
89) n-Butylbenzene	13.621	91	234645	22.679	ug/l		98
90) Hexachloroethane	13.883	117	47820	23.177	ug/l		83
91) 1,2-Dichlorobenzene	13.663	146	98131	21.589	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.285	75	6229	18.196	ug/l		76
93) 1,2,4-Trichlorobenzene	14.925	180	47250	18.538	ug/l		96
94) Hexachlorobutadiene	15.029	225	29871	21.080	ug/l		100
95) Naphthalene	15.151	128	82573	17.177	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	38420	17.832	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020031.D
Acq On : 28 Oct 2024 10:40
Operator : SY/MD
Sample : VY1028SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 01:53:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

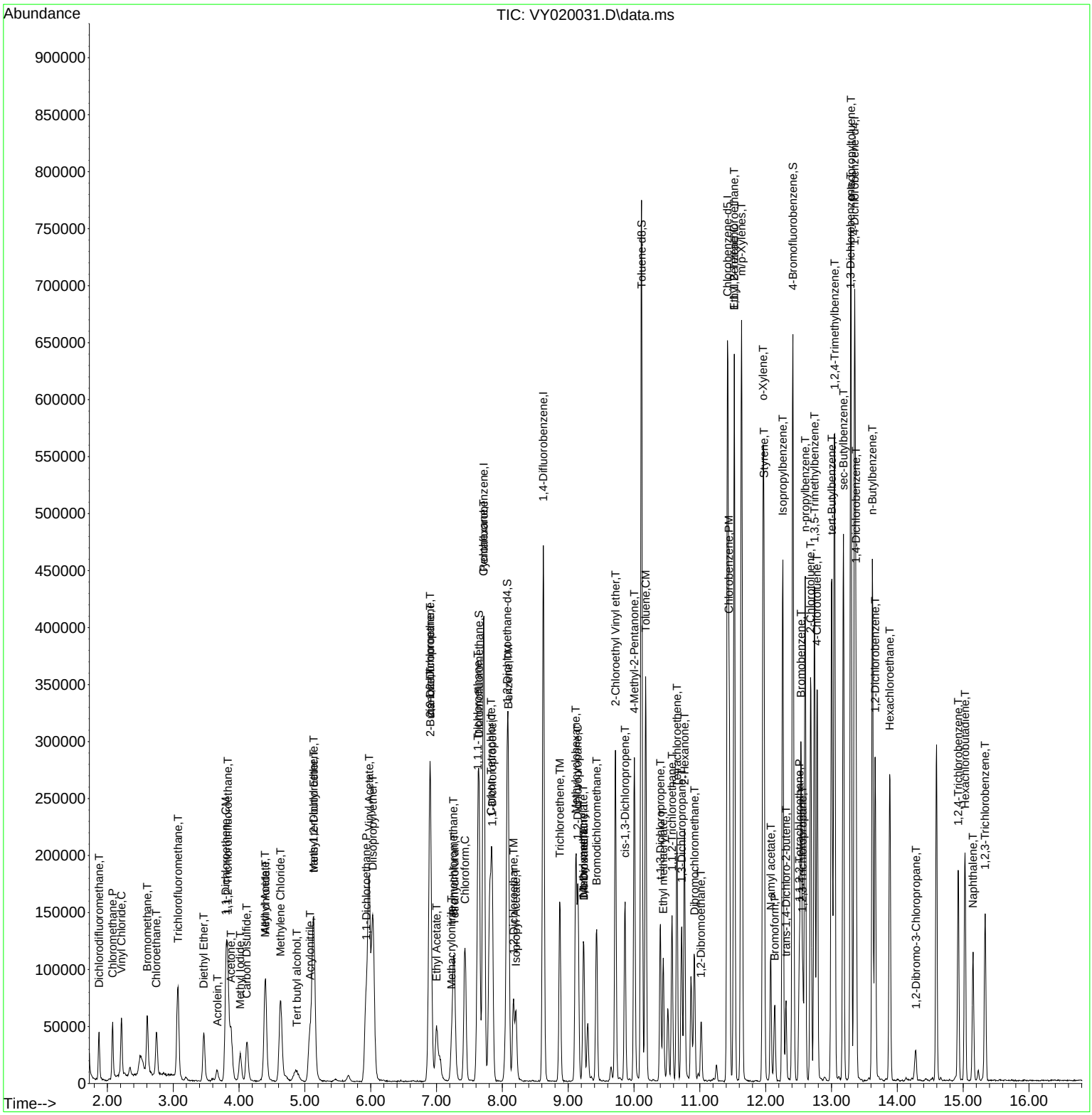
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020031.D
Acq On : 28 Oct 2024 10:40
Operator : SY/MD
Sample : VY1028SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 01:53:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020051.D
Acq On : 29 Oct 2024 11:04
Operator : SY/MD
Sample : VY1029SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 30 01:20:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.720	168	186283	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.622	114	334192	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	285725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	134900	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	118854	51.818	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.640%			
35) Dibromofluoromethane	7.640	113	112879	51.185	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.380%			
50) Toluene-d8	10.109	98	409396	50.270	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.540%			
62) 4-Bromofluorobenzene	12.408	95	147085	49.984	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 99.960%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	25827	14.893	ug/l	100
3) Chloromethane	2.080	50	35474	15.717	ug/l	97
4) Vinyl Chloride	2.214	62	44223	17.805	ug/l	96
5) Bromomethane	2.598	94	29055	18.482	ug/l	100
6) Chloroethane	2.739	64	32797	19.656	ug/l	97
7) Trichlorofluoromethane	3.068	101	71163	19.255	ug/l	89
8) Diethyl Ether	3.464	74	20688	18.419	ug/l	74
9) 1,1,2-Trichlorotrifluo...	3.824	101	43607	20.285	ug/l #	92
10) Methyl Iodide	4.013	142	32130	14.778	ug/l	90
11) Tert butyl alcohol	4.866	59	26387m	133.842	ug/l	
12) 1,1-Dichloroethene	3.793	96	34845	17.436	ug/l	85
13) Acrolein	3.659	56	11448	67.924	ug/l	94
14) Allyl chloride	4.397	41	69415	19.251	ug/l #	89
15) Acrylonitrile	5.074	53	60198	117.174	ug/l	97
16) Acetone	3.879	43	82827	138.719	ug/l #	81
17) Carbon Disulfide	4.116	76	54695	10.211	ug/l	96
18) Methyl Acetate	4.391	43	27741	21.568	ug/l #	88
19) Methyl tert-butyl Ether	5.128	73	121965	21.243	ug/l	95
20) Methylene Chloride	4.629	84	49107	21.804	ug/l #	75
21) trans-1,2-Dichloroethene	5.128	96	38225	17.574	ug/l #	85
22) Diisopropyl ether	6.031	45	180158	22.938	ug/l #	89
23) Vinyl Acetate	5.970	43	485811	107.896	ug/l #	92
24) 1,1-Dichloroethane	5.921	63	97435	22.317	ug/l	94
25) 2-Butanone	6.903	43	103150	129.064	ug/l #	83
26) 2,2-Dichloropropane	6.896	77	83105	21.374	ug/l	94
27) cis-1,2-Dichloroethene	6.903	96	55076	20.490	ug/l	78
28) Bromochloromethane	7.250	49	45015	23.425	ug/l #	71
29) Tetrahydrofuran	7.268	42	50969	111.692	ug/l #	80
30) Chloroform	7.427	83	103705	23.302	ug/l	96
31) Cyclohexane	7.707	56	64806	16.910	ug/l	92
32) 1,1,1-Trichloroethane	7.628	97	84591	21.688	ug/l #	93
36) 1,1-Dichloropropene	7.841	75	61159	19.250	ug/l	94
37) Ethyl Acetate	6.988	43	35245	21.274	ug/l #	94
38) Carbon Tetrachloride	7.823	117	68239	20.035	ug/l	97
39) Methylcyclohexane	9.116	83	64562	16.128	ug/l #	87
40) Benzene	8.091	78	191595	19.926	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020051.D
Acq On : 29 Oct 2024 11:04
Operator : SY/MD
Sample : VY1029SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 30 01:20:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	21227	23.674	ug/l	#	85
42) 1,2-Dichloroethane	8.165	62	58042	21.012	ug/l		95
43) Isopropyl Acetate	8.201	43	74293	21.989	ug/l	#	78
44) Trichloroethene	8.872	130	43223	18.560	ug/l		89
45) 1,2-Dichloropropane	9.146	63	54194	22.518	ug/l		96
46) Dibromomethane	9.238	93	27278	20.745	ug/l		88
47) Bromodichloromethane	9.427	83	78474	22.484	ug/l		100
48) Methyl methacrylate	9.225	41	31316	21.071	ug/l	#	82
49) 1,4-Dioxane	9.231	88	6613	449.354	ug/l	#	93
51) 4-Methyl-2-Pentanone	10.000	43	201726	117.057	ug/l		89
52) Toluene	10.176	92	122305	20.378	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	63925	20.356	ug/l		99
54) cis-1,3-Dichloropropene	9.859	75	76149	20.551	ug/l	#	84
55) 1,1,2-Trichloroethane	10.573	97	39566	22.839	ug/l		100
56) Ethyl methacrylate	10.445	69	51345	20.655	ug/l	#	73
57) 1,3-Dichloropropane	10.719	76	67251	22.105	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	127158	109.883	ug/l		92
59) 2-Hexanone	10.762	43	153924	125.055	ug/l		85
60) Dibromochloromethane	10.914	129	48177	21.667	ug/l		100
61) 1,2-Dibromoethane	11.018	107	32764	20.929	ug/l		98
64) Tetrachloroethene	10.652	164	36142	17.784	ug/l		93
65) Chlorobenzene	11.444	112	132709	20.307	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	48642	21.999	ug/l		98
67) Ethyl Benzene	11.524	91	244765	20.618	ug/l		98
68) m/p-Xylenes	11.633	106	178897	40.803	ug/l		93
69) o-Xylene	11.957	106	85245	20.236	ug/l		88
70) Styrene	11.975	104	150351	21.155	ug/l		94
71) Bromoform	12.133	173	25680	21.695	ug/l	#	98
73) Isopropylbenzene	12.255	105	243064	21.421	ug/l		98
74) N-amyl acetate	12.072	43	62944	20.944	ug/l	#	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	48220	23.916	ug/l		98
76) 1,2,3-Trichloropropane	12.560	75	34944m	13.223	ug/l		
77) Bromobenzene	12.536	156	49706	20.643	ug/l		81
78) n-propylbenzene	12.597	91	302261	22.046	ug/l		96
79) 2-Chlorotoluene	12.682	91	171019	21.757	ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	195325	21.315	ug/l		94
81) trans-1,4-Dichloro-2-b...	12.304	75	13261	20.255	ug/l	#	74
82) 4-Chlorotoluene	12.780	91	172407	21.451	ug/l		95
83) tert-Butylbenzene	12.999	119	182466	22.227	ug/l		94
84) 1,2,4-Trimethylbenzene	13.042	105	194213	21.377	ug/l		94
85) sec-Butylbenzene	13.176	105	279579	22.794	ug/l		96
86) p-Isopropyltoluene	13.292	119	219728	22.062	ug/l		95
87) 1,3-Dichlorobenzene	13.292	146	103107	21.204	ug/l		96
88) 1,4-Dichlorobenzene	13.371	146	102087	21.370	ug/l		95
89) n-Butylbenzene	13.621	91	220214	22.644	ug/l		96
90) Hexachloroethane	13.883	117	44326	22.856	ug/l		84
91) 1,2-Dichlorobenzene	13.664	146	92483	21.646	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.279	75	7168	22.277	ug/l		68
93) 1,2,4-Trichlorobenzene	14.926	180	45744	19.094	ug/l		98
94) Hexachlorobutadiene	15.029	225	26814	20.131	ug/l		94
95) Naphthalene	15.145	128	83682	18.520	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	38515	19.018	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020051.D
Acq On : 29 Oct 2024 11:04
Operator : SY/MD
Sample : VY1029SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 30 01:20:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

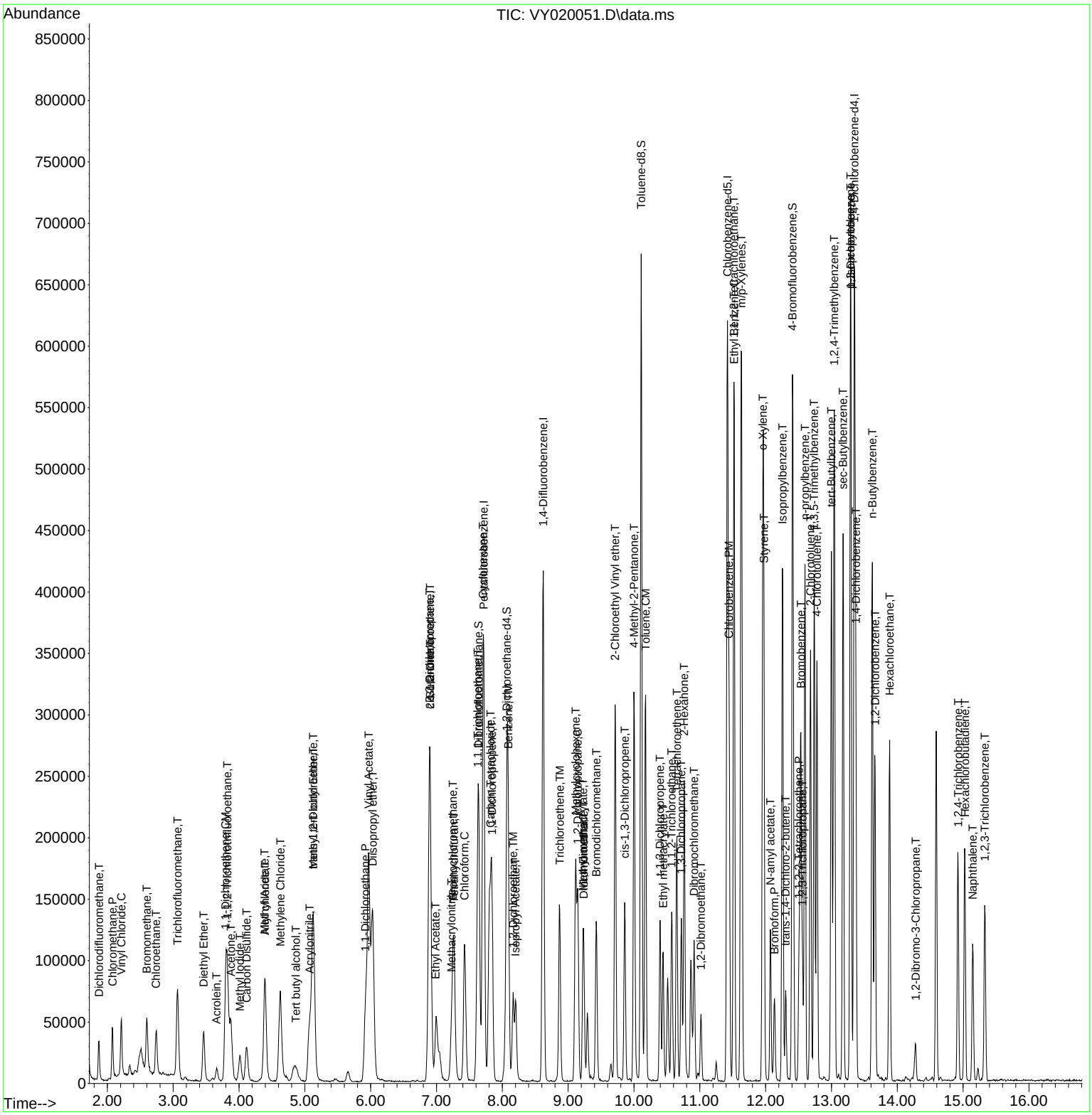
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020051.D
Acq On : 29 Oct 2024 11:04
Operator : SY/MD
Sample : VY1029SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 30 01:20:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043587.D
Acq On : 29 Oct 2024 11:20
Operator : JC/MD
Sample : VX1029WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 01:27:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	180366	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	312050	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	270005	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	131226	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	123296	42.871	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 85.740%			
35) Dibromofluoromethane	5.385	113	99899	47.211	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.420%			
50) Toluene-d8	8.647	98	366426	50.025	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.060%			
62) 4-Bromofluorobenzene	11.079	95	135860	50.055	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	35143	18.219	ug/l	98
3) Chloromethane	1.294	50	40942	16.605	ug/l	99
4) Vinyl Chloride	1.374	62	41339	18.065	ug/l	98
5) Bromomethane	1.593	94	17344	18.591	ug/l	94
6) Chloroethane	1.660	64	15277	18.949	ug/l	100
7) Trichlorofluoromethane	1.861	101	57506	20.570	ug/l	98
8) Diethyl Ether	2.136	74	23314	18.050	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.313	101	37452	19.809	ug/l	97
10) Methyl Iodide	2.441	142	53263	19.499	ug/l	96
11) Tert butyl alcohol	3.008	59	57011m	106.205	ug/l	
12) 1,1-Dichloroethene	2.307	96	36845	19.070	ug/l	96
13) Acrolein	2.239	56	39535	94.177	ug/l	100
14) Allyl chloride	2.660	41	61519	18.409	ug/l	97
15) Acrylonitrile	3.069	53	109405	90.270	ug/l	99
16) Acetone	2.392	43	109359	95.756	ug/l	100
17) Carbon Disulfide	2.502	76	73159	18.108	ug/l	99
18) Methyl Acetate	2.709	43	57203	17.138	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	131788	17.936	ug/l	97
20) Methylene Chloride	2.782	84	41826	16.993	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	38207	18.718	ug/l	93
22) Diisopropyl ether	3.764	45	127741	18.494	ug/l	97
23) Vinyl Acetate	3.721	43	526774	92.311	ug/l	99
24) 1,1-Dichloroethane	3.605	63	72922	18.368	ug/l	98
25) 2-Butanone	4.562	43	152135	91.321	ug/l	100
26) 2,2-Dichloropropane	4.465	77	61908	19.050	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	48502	18.602	ug/l	99
28) Bromochloromethane	4.898	49	35416	18.753	ug/l	100
29) Tetrahydrofuran	5.007	42	96260	88.912	ug/l	98
30) Chloroform	5.086	83	75982	18.258	ug/l	98
31) Cyclohexane	5.458	56	60944	20.070	ug/l	94
32) 1,1,1-Trichloroethane	5.379	97	66644	19.074	ug/l	98
36) 1,1-Dichloropropene	5.684	75	50726	20.217	ug/l	99
37) Ethyl Acetate	4.715	43	57527	18.885	ug/l	98
38) Carbon Tetrachloride	5.672	117	55313	19.952	ug/l	95
39) Methylcyclohexane	7.373	83	65547	21.041	ug/l	95
40) Benzene	6.031	78	162811	19.451	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043587.D
Acq On : 29 Oct 2024 11:20
Operator : JC/MD
Sample : VX1029WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 01:27:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	30340	18.975	ug/l		96
42) 1,2-Dichloroethane	6.086	62	57693	19.172	ug/l		98
43) Isopropyl Acetate	6.342	43	94365	18.732	ug/l		98
44) Trichloroethene	7.123	130	40576	19.513	ug/l		98
45) 1,2-Dichloropropane	7.428	63	39286	19.061	ug/l		98
46) Dibromomethane	7.580	93	30214	19.039	ug/l		98
47) Bromodichloromethane	7.818	83	52666	18.918	ug/l		96
48) Methyl methacrylate	7.696	41	45342	18.984	ug/l		98
49) 1,4-Dioxane	7.671	88	22833	465.320	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	303410	98.818	ug/l		100
52) Toluene	8.720	92	102358	20.164	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	57218	19.136	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	64125	20.128	ug/l		93
55) 1,1,2-Trichloroethane	9.153	97	42874	20.290	ug/l		96
56) Ethyl methacrylate	9.116	69	67171	19.564	ug/l		97
57) 1,3-Dichloropropane	9.305	76	69379	19.741	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	161188	96.934	ug/l		98
59) 2-Hexanone	9.433	43	235915	101.166	ug/l		100
60) Dibromochloromethane	9.519	129	41001	19.595	ug/l		98
61) 1,2-Dibromoethane	9.610	107	43112	19.655	ug/l		97
64) Tetrachloroethene	9.275	164	35803	21.083	ug/l		94
65) Chlorobenzene	10.079	112	114879	19.776	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	39255	20.689	ug/l		99
67) Ethyl Benzene	10.195	91	191684	20.237	ug/l		97
68) m/p-Xylenes	10.299	106	151758	41.895	ug/l		95
69) o-Xylene	10.640	106	75831	20.836	ug/l		97
70) Styrene	10.653	104	124213	20.534	ug/l		99
71) Bromoform	10.799	173	25655	18.805	ug/l	#	96
73) Isopropylbenzene	10.963	105	190648	20.509	ug/l		99
74) N-amyl acetate	10.842	43	86862	19.182	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	65393	19.563	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	52914m	18.859	ug/l		
77) Bromobenzene	11.195	156	46994	19.579	ug/l		99
78) n-propylbenzene	11.305	91	208848	20.606	ug/l		99
79) 2-Chlorotoluene	11.366	91	133377	19.846	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	161261	20.806	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	18827	18.460	ug/l		98
82) 4-Chlorotoluene	11.451	91	150670	19.974	ug/l		99
83) tert-Butylbenzene	11.713	119	165824	21.037	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	163892	20.749	ug/l		99
85) sec-Butylbenzene	11.890	105	197051	21.328	ug/l		100
86) p-Isopropyltoluene	12.006	119	164691	20.970	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	85827	19.950	ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	85335	19.143	ug/l		99
89) n-Butylbenzene	12.329	91	132178	20.655	ug/l		98
90) Hexachloroethane	12.536	117	25551	20.029	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	88551	20.129	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	12736	18.690	ug/l		94
93) 1,2,4-Trichlorobenzene	13.585	180	51206	19.176	ug/l		97
94) Hexachlorobutadiene	13.725	225	20393	20.713	ug/l		98
95) Naphthalene	13.774	128	200939	19.665	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	53643	19.053	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043587.D
Acq On : 29 Oct 2024 11:20
Operator : JC/MD
Sample : VX1029WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 01:27:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

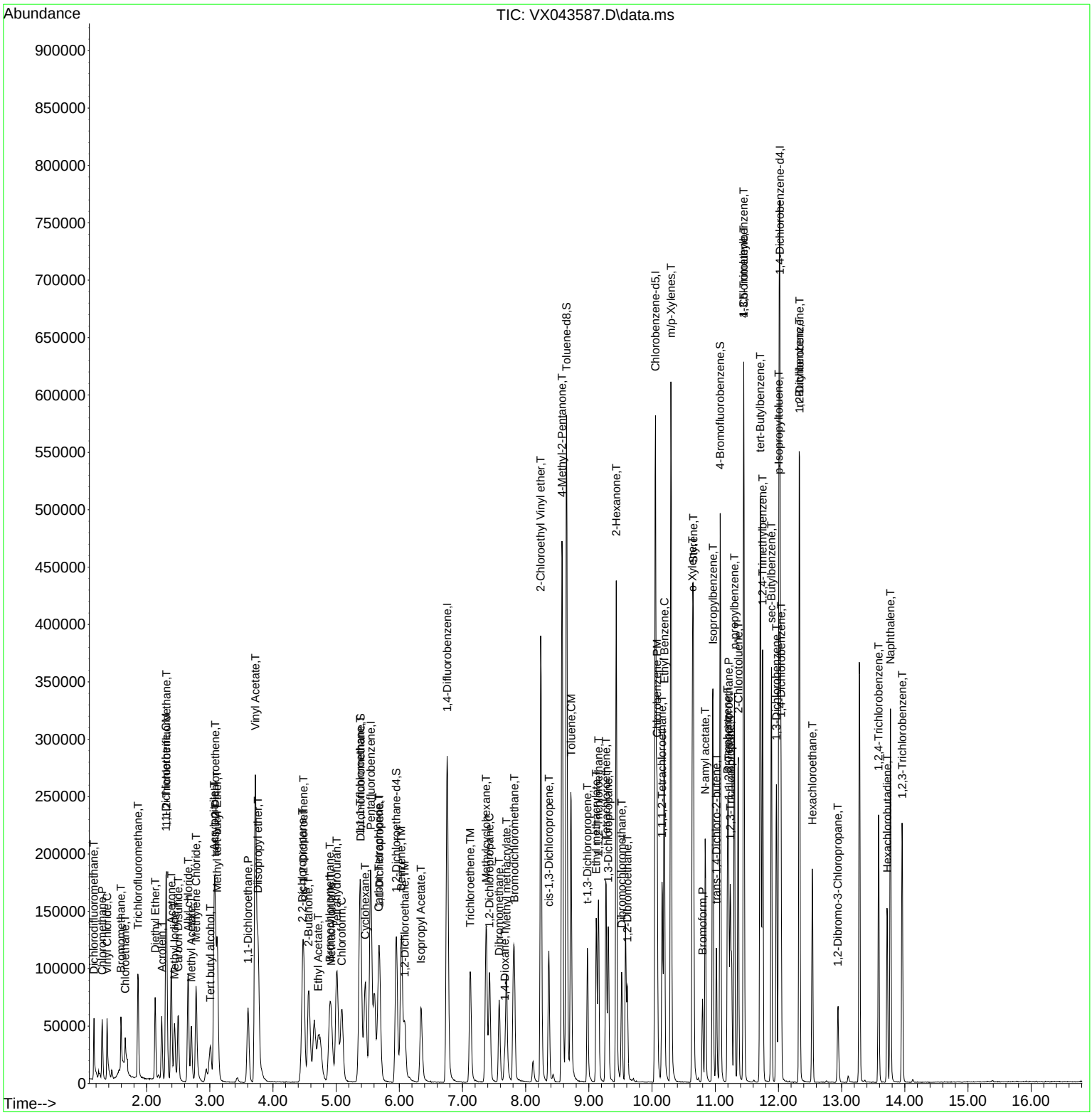
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Data File : VX043587.D
Acq On : 29 Oct 2024 11:20
Operator : JC/MD
Sample : VX1029WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 01:27:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020032.D
Acq On : 28 Oct 2024 11:02
Operator : SY/MD
Sample : VY1028SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 01:54:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	200597	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.622	114	351453	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	295814	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	146119	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	116184	47.039	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.080%			
35) Dibromofluoromethane	7.640	113	115393	49.755	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.520%			
50) Toluene-d8	10.109	98	403213	47.080	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.160%			
62) 4-Bromofluorobenzene	12.407	95	145427	46.994	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 93.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	31035	16.619	ug/l	91
3) Chloromethane	2.074	50	39667	16.321	ug/l	93
4) Vinyl Chloride	2.208	62	45770	17.113	ug/l	99
5) Bromomethane	2.598	94	32052	18.933	ug/l	99
6) Chloroethane	2.738	64	33863	18.847	ug/l	97
7) Trichlorofluoromethane	3.062	101	75032	18.854	ug/l	97
8) Diethyl Ether	3.458	74	23615	19.524	ug/l	81
9) 1,1,2-Trichlorotrifluo...	3.818	101	46136	19.930	ug/l	92
10) Methyl Iodide	4.013	142	35722	15.258	ug/l	89
11) Tert butyl alcohol	4.872	59	20354	90.519	ug/l #	84
12) 1,1-Dichloroethene	3.799	96	37980	17.649	ug/l	85
13) Acrolein	3.659	56	13547	74.643	ug/l	100
14) Allyl chloride	4.397	41	75573	19.463	ug/l #	88
15) Acrylonitrile	5.067	53	61356	110.906	ug/l	95
16) Acetone	3.872	43	81133	126.186	ug/l #	84
17) Carbon Disulfide	4.116	76	60198	10.436	ug/l	100
18) Methyl Acetate	4.397	43	29007	20.943	ug/l #	87
19) Methyl tert-butyl Ether	5.122	73	130479	21.104	ug/l	96
20) Methylene Chloride	4.622	84	48334	19.859	ug/l #	82
21) trans-1,2-Dichloroethene	5.122	96	40487	17.286	ug/l	93
22) Diisopropyl ether	6.024	45	192184	22.723	ug/l	92
23) Vinyl Acetate	5.970	43	515221	106.262	ug/l #	89
24) 1,1-Dichloroethane	5.927	63	101708	21.634	ug/l	94
25) 2-Butanone	6.896	43	103284	120.010	ug/l #	82
26) 2,2-Dichloropropane	6.890	77	86311	20.614	ug/l	94
27) cis-1,2-Dichloroethene	6.896	96	60239	20.812	ug/l	84
28) Bromochloromethane	7.250	49	45912	22.187	ug/l #	71
29) Tetrahydrofuran	7.262	42	51566	104.937	ug/l #	81
30) Chloroform	7.427	83	108831	22.709	ug/l	97
31) Cyclohexane	7.707	56	70435	17.067	ug/l	90
32) 1,1,1-Trichloroethane	7.622	97	88545	21.082	ug/l #	93
36) 1,1-Dichloropropene	7.835	75	65595	19.632	ug/l	93
37) Ethyl Acetate	6.988	43	39591	22.724	ug/l #	92
38) Carbon Tetrachloride	7.823	117	73988	20.656	ug/l	98
39) Methylcyclohexane	9.115	83	71437	16.969	ug/l	85
40) Benzene	8.085	78	203054	20.081	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020032.D
Acq On : 28 Oct 2024 11:02
Operator : SY/MD
Sample : VY1028SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 01:54:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	22072	23.407	ug/l	#	83
42) 1,2-Dichloroethane	8.164	62	62181	21.404	ug/l		95
43) Isopropyl Acetate	8.201	43	73461	20.675	ug/l	#	90
44) Trichloroethene	8.872	130	46482	18.979	ug/l		86
45) 1,2-Dichloropropane	9.146	63	55584	21.962	ug/l		99
46) Dibromomethane	9.237	93	28598	20.681	ug/l		89
47) Bromodichloromethane	9.426	83	83153	22.655	ug/l		98
48) Methyl methacrylate	9.225	41	32581	20.846	ug/l	#	81
49) 1,4-Dioxane	9.231	88	6247	403.636	ug/l	#	87
51) 4-Methyl-2-Pentanone	9.999	43	205440	113.357	ug/l		89
52) Toluene	10.176	92	129047	20.445	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	67431	20.418	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	80401	20.633	ug/l	#	83
55) 1,1,2-Trichloroethane	10.572	97	40089	22.004	ug/l		92
56) Ethyl methacrylate	10.438	69	54665	20.911	ug/l	#	74
57) 1,3-Dichloropropane	10.719	76	69809	21.819	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	130240	107.019	ug/l		92
59) 2-Hexanone	10.761	43	158319	122.309	ug/l		86
60) Dibromochloromethane	10.914	129	50247	21.488	ug/l		99
61) 1,2-Dibromoethane	11.017	107	33148	20.135	ug/l		98
64) Tetrachloroethene	10.652	164	39913	18.969	ug/l		94
65) Chlorobenzene	11.444	112	144999	21.431	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	51226	22.378	ug/l		99
67) Ethyl Benzene	11.524	91	263771	21.461	ug/l		98
68) m/p-Xylenes	11.633	106	188291	41.481	ug/l		91
69) o-Xylene	11.956	106	92029	21.101	ug/l		91
70) Styrene	11.975	104	159728	21.708	ug/l		95
71) Bromoform	12.133	173	25963	21.186	ug/l	#	100
73) Isopropylbenzene	12.255	105	261201	21.252	ug/l		97
74) N-amyl acetate	12.072	43	66538	20.440	ug/l		89
75) 1,1,2,2-Tetrachloroethane	12.511	83	48903	22.393	ug/l		98
76) 1,2,3-Trichloropropane	12.560	75	37749m	13.188	ug/l		
77) Bromobenzene	12.536	156	52388	20.087	ug/l		80
78) n-propylbenzene	12.596	91	322402	21.709	ug/l		95
79) 2-Chlorotoluene	12.682	91	177386	20.835	ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	209093	21.066	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	14481	20.420	ug/l	#	76
82) 4-Chlorotoluene	12.779	91	188444	21.647	ug/l		95
83) tert-Butylbenzene	12.999	119	192975	21.702	ug/l		95
84) 1,2,4-Trimethylbenzene	13.042	105	209092	21.247	ug/l		97
85) sec-Butylbenzene	13.176	105	297318	22.380	ug/l		96
86) p-Isopropyltoluene	13.291	119	234698	21.756	ug/l		96
87) 1,3-Dichlorobenzene	13.291	146	110766	21.030	ug/l		97
88) 1,4-Dichlorobenzene	13.371	146	109876	21.235	ug/l		95
89) n-Butylbenzene	13.621	91	237339	22.531	ug/l		97
90) Hexachloroethane	13.877	117	46832	22.294	ug/l		87
91) 1,2-Dichlorobenzene	13.657	146	99945	21.596	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	7553	21.671	ug/l		71
93) 1,2,4-Trichlorobenzene	14.925	180	52715	20.314	ug/l		96
94) Hexachlorobutadiene	15.023	225	30493	21.136	ug/l		99
95) Naphthalene	15.145	128	100388	20.511	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	45531	20.756	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020032.D
Acq On : 28 Oct 2024 11:02
Operator : SY/MD
Sample : VY1028SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 01:54:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

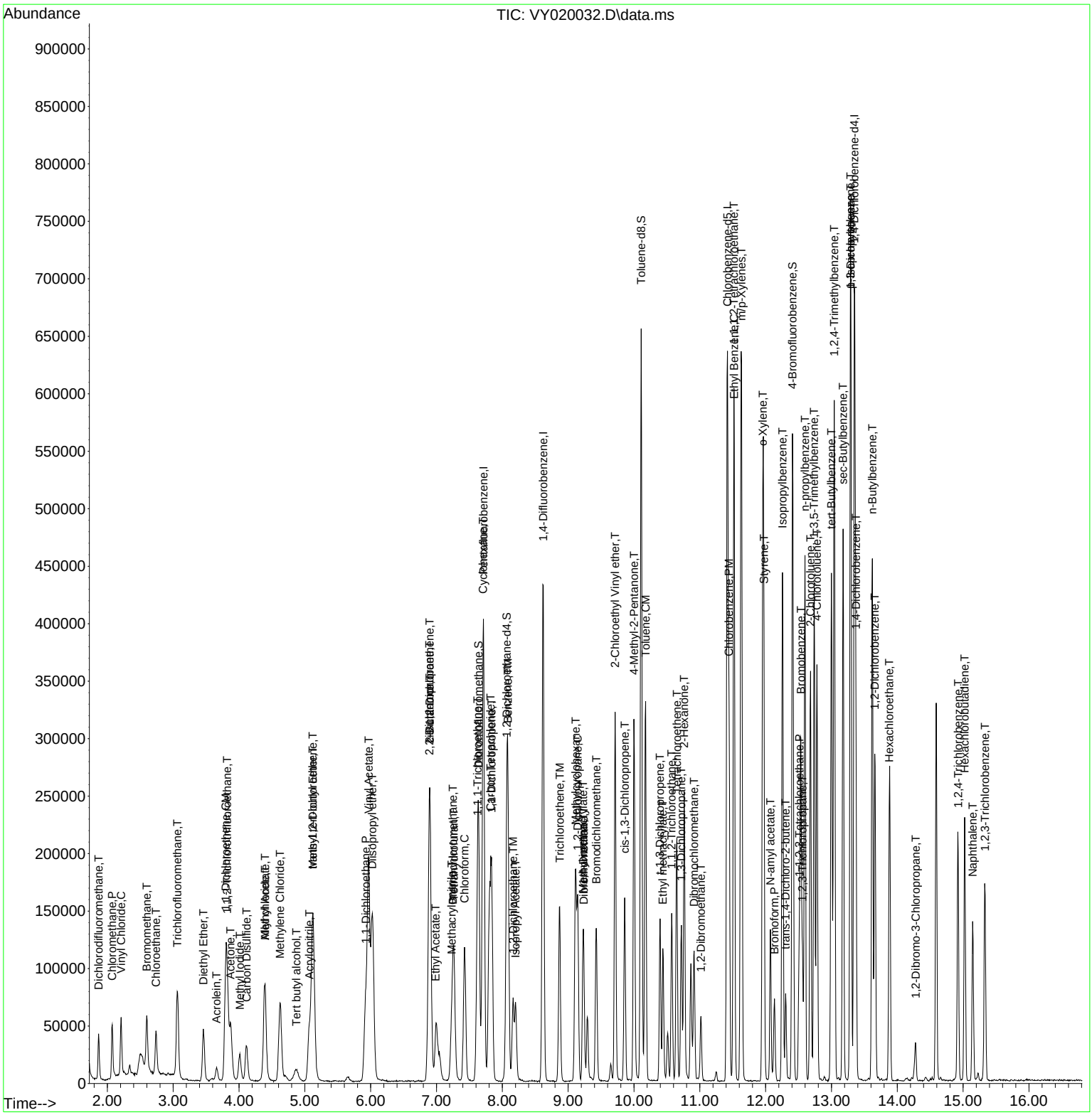
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020032.D
Acq On : 28 Oct 2024 11:02
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Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX102824	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX043556.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	1,4-Dichlorobenzene	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Ethyl Acetate	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Methacrylonitrile	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC005	VX043557.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:13 AM	MMDadoda	10/29/2024 12:19:39 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	Tert butyl alcohol	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	Tert butyl alcohol	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICC100	VX043560.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:22 AM	MMDadoda	10/29/2024 12:19:34 PM	Peak Integrated by Software
VSTDICC150	VX043561.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:57 AM	MMDadoda	10/29/2024 12:19:32 PM	Peak Integrated by Software
VSTDICV050	VX043563.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:27 AM	MMDadoda	10/29/2024 12:19:30 PM	Peak Integrated by Software
VSTDCCC050	VX043581.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:42 AM	MMDadoda	10/29/2024 12:19:26 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX102824	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX102924	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX043583.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:32 AM	MMDadoda	10/30/2024 1:23:51 PM	Peak Integrated by Software
VX1029WBS01	VX043586.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:35 AM	MMDadoda	10/30/2024 1:23:53 PM	Peak Integrated by Software
VX1029WBS01	VX043586.D	Chloroethane	SAM	10/30/2024 11:31:35 AM	MMDadoda	10/30/2024 1:23:53 PM	Peak Integrated by Software
VX1029WBS01	VX043586.D	Tert butyl alcohol	SAM	10/30/2024 11:31:35 AM	MMDadoda	10/30/2024 1:23:53 PM	Peak Integrated by Software
VX1029WBSD01	VX043587.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:36 AM	MMDadoda	10/30/2024 1:23:55 PM	Peak Integrated by Software
VX1029WBSD01	VX043587.D	Tert butyl alcohol	SAM	10/30/2024 11:31:36 AM	MMDadoda	10/30/2024 1:23:55 PM	Peak Integrated by Software
VSTDCCC050	VX043608.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:39 AM	MMDadoda	10/30/2024 1:23:58 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VY100924	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY019827.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:35 AM	MMDadoda	10/10/2024 10:09:23 PM	Peak Integrated by Software
VSTDICC010	VY019828.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:39 AM	MMDadoda	10/10/2024 10:09:24 PM	Peak Integrated by Software
VSTDICC020	VY019829.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:29:24 AM	MMDadoda	10/10/2024 10:09:26 PM	Peak Integrated by Software
VSTDICCC050	VY019830.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:44 AM	MMDadoda	10/10/2024 10:09:28 PM	Peak Integrated by Software
VSTDICC100	VY019831.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:48 AM	MMDadoda	10/10/2024 10:09:30 PM	Peak Integrated by Software
VSTDICC150	VY019832.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:51 AM	MMDadoda	10/10/2024 10:09:32 PM	Peak Integrated by Software
VSTDICV050	VY019834.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:56 AM	MMDadoda	10/10/2024 10:09:33 PM	Peak Integrated by Software
VSTDCCC050	VY019842.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:29:13 AM	MMDadoda	10/10/2024 10:09:40 PM	Peak Integrated by Software
VSTDCCC050	VY019842.D	Methacrylonitrile	Romaben	10/10/2024 10:29:13 AM	MMDadoda	10/10/2024 10:09:40 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY102824	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020029.D	1,2,3-Trichloropropane	Romaben	10/29/2024 11:27:48 AM	MMDadoda	10/29/2024 12:17:48 PM	Peak Integrated by Software
VY1028SBS01	VY020031.D	1,2,3-Trichloropropane	Romaben	10/29/2024 11:27:51 AM	MMDadoda	10/29/2024 12:17:56 PM	Peak Integrated by Software
VY1028SBS01	VY020031.D	Tert butyl alcohol	Romaben	10/29/2024 11:27:51 AM	MMDadoda	10/29/2024 12:17:56 PM	Peak Integrated by Software
VY1028SBSD01	VY020032.D	1,2,3-Trichloropropane	Romaben	10/29/2024 11:27:55 AM	MMDadoda	10/29/2024 12:17:54 PM	Peak Integrated by Software
VSTDCCC050	VY020046.D	1,2,3-Trichloropropane	Romaben	10/29/2024 11:27:58 AM	MMDadoda	10/29/2024 12:17:54 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY102924	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020049.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:30:37 AM	MMDadoda	10/30/2024 1:22:35 PM	Peak Integrated by Software
VY1029SBS01	VY020051.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:30:40 AM	MMDadoda	10/30/2024 1:22:36 PM	Peak Integrated by Software
VY1029SBS01	VY020051.D	Tert butyl alcohol	SAM	10/30/2024 11:30:40 AM	MMDadoda	10/30/2024 1:22:36 PM	Peak Integrated by Software
VSTDCCC050	VY020073.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:30:53 AM	MMDadoda	10/30/2024 1:22:42 PM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM				
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043555.D	28 Oct 2024 10:09	JC/MD	Ok
2	VSTDICC001	VX043556.D	28 Oct 2024 10:59	JC/MD	Ok,M
3	VSTDICC005	VX043557.D	28 Oct 2024 11:22	JC/MD	Ok,M
4	VSTDICC020	VX043558.D	28 Oct 2024 11:45	JC/MD	Ok,M
5	VSTDICCC050	VX043559.D	28 Oct 2024 12:08	JC/MD	Ok,M
6	VSTDICC100	VX043560.D	28 Oct 2024 12:31	JC/MD	Ok,M
7	VSTDICC150	VX043561.D	28 Oct 2024 12:54	JC/MD	Ok,M
8	VIBLK	VX043562.D	28 Oct 2024 14:04	JC/MD	Ok
9	VSTDICV050	VX043563.D	28 Oct 2024 14:27	JC/MD	Ok,M
10	VX1028MBL01	VX043564.D	28 Oct 2024 15:02	JC/MD	Not Ok
11	VX1028WBL01	VX043565.D	28 Oct 2024 15:52	JC/MD	Ok
12	VX1028WBS01	VX043566.D	28 Oct 2024 16:28	JC/MD	Ok,M
13	VX1028WBSD01	VX043567.D	28 Oct 2024 16:51	JC/MD	Ok,M
14	PB164394TB	VX043568.D	28 Oct 2024 17:14	JC/MD	Ok
15	PB164394ZHE#01	VX043569.D	28 Oct 2024 17:38	JC/MD	Ok
16	PB164394ZHE#02	VX043570.D	28 Oct 2024 18:01	JC/MD	Ok
17	PB164394ZHE#03	VX043571.D	28 Oct 2024 18:24	JC/MD	Ok
18	PB164394ZHE#04	VX043572.D	28 Oct 2024 18:47	JC/MD	Ok
19	PB164394ZHE#05	VX043573.D	28 Oct 2024 19:10	JC/MD	Ok
20	PB164394ZHE#06	VX043574.D	28 Oct 2024 19:33	JC/MD	Ok
21	PB164394ZHE#07	VX043575.D	28 Oct 2024 19:56	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM				
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB164394ZHE#08	VX043576.D	28 Oct 2024 20:19	JC/MD	Ok
23	PB164394ZHE#09	VX043577.D	28 Oct 2024 20:42	JC/MD	Ok
24	PB164394ZHE#10	VX043578.D	28 Oct 2024 21:05	JC/MD	Ok
25	PB164394ZHE#11	VX043579.D	28 Oct 2024 21:28	JC/MD	Ok
26	PB164394ZHE#12	VX043580.D	28 Oct 2024 21:52	JC/MD	Ok
27	VSTDCCC050	VX043581.D	28 Oct 2024 22:15	JC/MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:31:42 AM				
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:24:02 PM				
SubDirectory	VX102924	HP Acquire Method	MSVOA_X		HP Processing Method	82x102824w.m	

STD. NAME	STD REF.#
Tune/Reschk	VP131169
Initial Calibration Stds	
CCC	VP131171,VP131172
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043582.D	29 Oct 2024 08:30	JC/MD	Ok
2	VSTDCCC050	VX043583.D	29 Oct 2024 09:29	JC/MD	Ok,M
3	VX1029MBL01	VX043584.D	29 Oct 2024 10:06	JC/MD	Ok
4	VX1029WBL01	VX043585.D	29 Oct 2024 10:31	JC/MD	Ok
5	VX1029WBS01	VX043586.D	29 Oct 2024 10:57	JC/MD	Ok,M
6	VX1029WBSD01	VX043587.D	29 Oct 2024 11:20	JC/MD	Ok,M
7	VIBLK	VX043588.D	29 Oct 2024 11:43	JC/MD	Ok
8	P4596-07	VX043589.D	29 Oct 2024 12:10	JC/MD	Ok,M
9	VIBLK	VX043590.D	29 Oct 2024 12:33	JC/MD	Ok
10	P4578-09	VX043591.D	29 Oct 2024 12:56	JC/MD	Ok
11	P4548-09	VX043592.D	29 Oct 2024 13:19	JC/MD	Ok
12	P4548-01	VX043593.D	29 Oct 2024 13:43	JC/MD	Ok
13	P4548-03	VX043594.D	29 Oct 2024 14:06	JC/MD	Ok
14	P4548-05	VX043595.D	29 Oct 2024 14:29	JC/MD	Ok
15	P4548-07	VX043596.D	29 Oct 2024 14:52	JC/MD	Ok
16	P4578-01	VX043597.D	29 Oct 2024 15:15	JC/MD	Ok
17	P4578-02	VX043598.D	29 Oct 2024 15:38	JC/MD	Ok
18	P4600-01	VX043599.D	29 Oct 2024 16:01	JC/MD	Ok
19	P4600-02	VX043600.D	29 Oct 2024 16:24	JC/MD	Ok
20	P4600-03	VX043601.D	29 Oct 2024 16:48	JC/MD	Ok
21	P4600-04	VX043602.D	29 Oct 2024 17:11	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:31:42 AM				
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:24:02 PM				
SubDirectory	VX102924	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131169
Initial Calibration Stds	
CCC	VP131171,VP131172
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4600-05	VX043603.D	29 Oct 2024 17:34	JC/MD	ReRun
23	P4600-06	VX043604.D	29 Oct 2024 17:57	JC/MD	Ok
24	P4600-07	VX043605.D	29 Oct 2024 18:20	JC/MD	Ok
25	P4562-01	VX043606.D	29 Oct 2024 18:43	JC/MD	Ok
26	P4562-01	VX043607.D	29 Oct 2024 19:06	JC/MD	ReRun
27	VSTDCCC050	VX043608.D	29 Oct 2024 19:29	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY100924

Review By	Mahesh Dadoda	Review On	10/10/2024 10:09:46 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/10/2024 10:11:49 PM				
SubDirectory	VY100924	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP130736
Initial Calibration Stds	VP130737,VP130738,VP130739,VP130740,VP130741,VP130742
CCC	VP130744,VP130745
Internal Standard/PEM	VP128297
ICV/I.BLK	VP130746
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019826.D	09 Oct 2024 09:33	SY/MD	Ok
2	VSTDICC005	VY019827.D	09 Oct 2024 10:18	SY/MD	Ok,M
3	VSTDICC010	VY019828.D	09 Oct 2024 10:41	SY/MD	Ok,M
4	VSTDICC020	VY019829.D	09 Oct 2024 11:04	SY/MD	Ok,M
5	VSTDICCC050	VY019830.D	09 Oct 2024 11:26	SY/MD	Ok,M
6	VSTDICC100	VY019831.D	09 Oct 2024 11:49	SY/MD	Ok,M
7	VSTDICC150	VY019832.D	09 Oct 2024 12:11	SY/MD	Ok,M
8	VIBLK	VY019833.D	09 Oct 2024 12:35	SY/MD	Ok
9	VSTDICV050	VY019834.D	09 Oct 2024 15:25	SY/MD	Ok,M
10	VY1009SBL01	VY019835.D	09 Oct 2024 16:11	SY/MD	Ok
11	VY1009SBS01	VY019836.D	09 Oct 2024 16:41	SY/MD	Ok,M
12	VY1009SBSD01	VY019837.D	09 Oct 2024 17:04	SY/MD	Ok,M
13	P4343-01	VY019838.D	09 Oct 2024 17:27	SY/MD	Not Ok
14	P4353-02	VY019839.D	09 Oct 2024 17:51	SY/MD	Ok
15	P4359-01	VY019840.D	09 Oct 2024 18:14	SY/MD	Ok
16	P4344-01	VY019841.D	09 Oct 2024 18:38	SY/MD	Ok
17	VSTDCCC050	VY019842.D	09 Oct 2024 19:00	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:18:01 PM	
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:20:22 PM	
SubDirectory	VY102824	HP Acquire Method		HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP131128
Initial Calibration Stds	
CCC	VP131160,VP131161
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020028.D	28 Oct 2024 08:55	SY/MD	Ok
2	VSTDCCC050	VY020029.D	28 Oct 2024 09:29	SY/MD	Ok,M
3	VY1028SBL01	VY020030.D	28 Oct 2024 09:58	SY/MD	Ok
4	VY1028SBS01	VY020031.D	28 Oct 2024 10:40	SY/MD	Ok,M
5	VY1028SBSD01	VY020032.D	28 Oct 2024 11:02	SY/MD	Ok,M
6	P4578-03	VY020033.D	28 Oct 2024 11:56	SY/MD	Ok
7	P4578-04	VY020034.D	28 Oct 2024 12:19	SY/MD	Ok
8	P4578-07	VY020035.D	28 Oct 2024 12:43	SY/MD	Ok
9	P4578-05	VY020036.D	28 Oct 2024 13:06	SY/MD	ReRun
10	P4575-01	VY020037.D	28 Oct 2024 13:52	SY/MD	ReRun
11	P4574-04	VY020038.D	28 Oct 2024 14:16	SY/MD	Ok
12	P4574-01	VY020039.D	28 Oct 2024 15:15	SY/MD	Ok
13	P4577-01	VY020040.D	28 Oct 2024 15:41	SY/MD	Ok
14	P4561-03	VY020041.D	28 Oct 2024 16:05	SY/MD	Ok
15	P4561-07	VY020042.D	28 Oct 2024 16:28	SY/MD	ReRun
16	P4567-11	VY020043.D	28 Oct 2024 17:05	SY/MD	Ok
17	P4567-07	VY020044.D	28 Oct 2024 17:28	SY/MD	Ok
18	P4567-03	VY020045.D	28 Oct 2024 17:51	SY/MD	Ok
19	VSTDCCC050	VY020046.D	28 Oct 2024 18:14	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:30:55 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:22:48 PM		
SubDirectory	VY102924	HP Acquire Method		HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131166
Initial Calibration Stds	
CCC	VP131167,VP131168
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020048.D	29 Oct 2024 08:58	SY/MD	Ok
2	VSTDCCC050	VY020049.D	29 Oct 2024 09:31	SY/MD	Ok,M
3	VY1029SBL01	VY020050.D	29 Oct 2024 10:01	SY/MD	Ok
4	VY1029SBS01	VY020051.D	29 Oct 2024 11:04	SY/MD	Ok,M
5	VY1029SBS02	VY020052.D	29 Oct 2024 11:27	SY/MD	Not Ok
6	P4566-01	VY020053.D	29 Oct 2024 12:05	SY/MD	Ok
7	P4597-01	VY020054.D	29 Oct 2024 12:28	SY/MD	Ok
8	P4575-01RE	VY020055.D	29 Oct 2024 12:52	SY/MD	Confirms
9	P4597-07	VY020056.D	29 Oct 2024 13:15	SY/MD	Not Ok
10	P4597-10	VY020057.D	29 Oct 2024 13:38	SY/MD	Ok
11	P4598-07	VY020058.D	29 Oct 2024 14:02	SY/MD	Ok
12	P4598-03	VY020059.D	29 Oct 2024 14:25	SY/MD	Ok
13	P4561-07RE	VY020060.D	29 Oct 2024 14:49	SY/MD	Confirms
14	P4597-04	VY020061.D	29 Oct 2024 15:12	SY/MD	Ok
15	P4578-05	VY020062.D	29 Oct 2024 15:36	SY/MD	Ok
16	P4578-03RE	VY020063.D	29 Oct 2024 15:59	SY/MD	Not Ok
17	P4598-11	VY020064.D	29 Oct 2024 16:22	SY/MD	Ok
18	P4595-05	VY020065.D	29 Oct 2024 16:46	SY/MD	Ok
19	P4594-19	VY020066.D	29 Oct 2024 17:09	SY/MD	Ok
20	P4594-11	VY020067.D	29 Oct 2024 17:33	SY/MD	Ok
21	P4594-03	VY020068.D	29 Oct 2024 17:56	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:30:55 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:22:48 PM		
SubDirectory	VY102924	HP Acquire Method		HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131166
Initial Calibration Stds	
CCC	VP131167,VP131168
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4594-07	VY020069.D	29 Oct 2024 18:19	SY/MD	ReRun
23	P4594-15	VY020070.D	29 Oct 2024 18:43	SY/MD	ReRun
24	VY1029SBS03	VY020071.D	29 Oct 2024 19:06	SY/MD	Not Ok
25	VY1029SBSD01	VY020072.D	29 Oct 2024 19:28	SY/MD	Ok,M
26	VSTDCCC050	VY020073.D	29 Oct 2024 19:51	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM		
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043555.D	28 Oct 2024 10:09		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX043556.D	28 Oct 2024 10:59	Method pass	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX043557.D	28 Oct 2024 11:22	8260D	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX043558.D	28 Oct 2024 11:45		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX043559.D	28 Oct 2024 12:08		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX043560.D	28 Oct 2024 12:31		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX043561.D	28 Oct 2024 12:54		JC/MD	Ok,M
8	VIBLK	VIBLK	VX043562.D	28 Oct 2024 14:04		JC/MD	Ok
9	VSTDICV050	ICVVX102824	VX043563.D	28 Oct 2024 14:27		JC/MD	Ok,M
10	VX1028MBL01	VX1028MBL01	VX043564.D	28 Oct 2024 15:02	Internal standard fail	JC/MD	Not Ok
11	VX1028WBL01	VX1028WBL01	VX043565.D	28 Oct 2024 15:52		JC/MD	Ok
12	VX1028WBS01	VX1028WBS01	VX043566.D	28 Oct 2024 16:28		JC/MD	Ok,M
13	VX1028WBSD01	VX1028WBSD01	VX043567.D	28 Oct 2024 16:51		JC/MD	Ok,M
14	PB164394TB	PB164394TB	VX043568.D	28 Oct 2024 17:14	pH#5.0 A	JC/MD	Ok
15	PB164394ZHE#01	PB164394ZHE#01	VX043569.D	28 Oct 2024 17:38	pH#5.0 A	JC/MD	Ok
16	PB164394ZHE#02	PB164394ZHE#02	VX043570.D	28 Oct 2024 18:01	pH#5.0 A	JC/MD	Ok
17	PB164394ZHE#03	PB164394ZHE#03	VX043571.D	28 Oct 2024 18:24	pH#5.0 A	JC/MD	Ok
18	PB164394ZHE#04	PB164394ZHE#04	VX043572.D	28 Oct 2024 18:47	pH#5.0 A	JC/MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM		
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB164394ZHE#05	PB164394ZHE#05	VX043573.D	28 Oct 2024 19:10	pH#5.0 A	JC/MD	Ok
20	PB164394ZHE#06	PB164394ZHE#06	VX043574.D	28 Oct 2024 19:33	pH#5.0 A	JC/MD	Ok
21	PB164394ZHE#07	PB164394ZHE#07	VX043575.D	28 Oct 2024 19:56	pH#5.0 A	JC/MD	Ok
22	PB164394ZHE#08	PB164394ZHE#08	VX043576.D	28 Oct 2024 20:19	pH#5.0 A	JC/MD	Ok
23	PB164394ZHE#09	PB164394ZHE#09	VX043577.D	28 Oct 2024 20:42	pH#5.0 A	JC/MD	Ok
24	PB164394ZHE#10	PB164394ZHE#10	VX043578.D	28 Oct 2024 21:05	pH#5.0 A	JC/MD	Ok
25	PB164394ZHE#11	PB164394ZHE#11	VX043579.D	28 Oct 2024 21:28	pH#5.0 A	JC/MD	Ok
26	PB164394ZHE#12	PB164394ZHE#12	VX043580.D	28 Oct 2024 21:52	pH#5.0 A	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX043581.D	28 Oct 2024 22:15	out of tune time	JC/MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:31:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:24:02 PM		
SubDirectory	VX102924	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131169
Initial Calibration Stds	
CCC	VP131171,VP131172
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043582.D	29 Oct 2024 08:30		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX043583.D	29 Oct 2024 09:29		JC/MD	Ok,M
3	VX1029MBL01	VX1029MBL01	VX043584.D	29 Oct 2024 10:06		JC/MD	Ok
4	VX1029WBL01	VX1029WBL01	VX043585.D	29 Oct 2024 10:31		JC/MD	Ok
5	VX1029WBS01	VX1029WBS01	VX043586.D	29 Oct 2024 10:57		JC/MD	Ok,M
6	VX1029WBSD01	VX1029WBSD01	VX043587.D	29 Oct 2024 11:20		JC/MD	Ok,M
7	VIBLK	VIBLK	VX043588.D	29 Oct 2024 11:43		JC/MD	Ok
8	P4596-07	TOTE-WATER-COMP	VX043589.D	29 Oct 2024 12:10		JC/MD	Ok,M
9	VIBLK	VIBLK	VX043590.D	29 Oct 2024 12:33		JC/MD	Ok
10	P4578-09	TB-10252024	VX043591.D	29 Oct 2024 12:56	vial A pH<2 TB	JC/MD	Ok
11	P4548-09	TRIP BLANK	VX043592.D	29 Oct 2024 13:19	vial A pH<2 TB	JC/MD	Ok
12	P4548-01	MW-1	VX043593.D	29 Oct 2024 13:43	vial A pH<2	JC/MD	Ok
13	P4548-03	MW-2	VX043594.D	29 Oct 2024 14:06	vial A pH<2	JC/MD	Ok
14	P4548-05	MW-3	VX043595.D	29 Oct 2024 14:29	vial A pH<2	JC/MD	Ok
15	P4548-07	MW-4	VX043596.D	29 Oct 2024 14:52	vial A pH<2	JC/MD	Ok
16	P4578-01	WB-305-SW	VX043597.D	29 Oct 2024 15:15	vial A pH<2	JC/MD	Ok
17	P4578-02	WB-305-SW-1	VX043598.D	29 Oct 2024 15:38	vial A pH<2	JC/MD	Ok
18	P4600-01	BP-VPB-190-TB-20241	VX043599.D	29 Oct 2024 16:01	vial A pH<2 TB	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:31:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:24:02 PM		
SubDirectory	VX102924	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131169
Initial Calibration Stds	
CCC	VP131171,VP131172
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4600-02	BP-VPB-190-DUP-2024	VX043600.D	29 Oct 2024 16:24	vial A pH<2	JC/MD	Ok
20	P4600-03	BP-VPB-190-GW-438-4	VX043601.D	29 Oct 2024 16:48	vial A pH<2	JC/MD	Ok
21	P4600-04	BP-VPB-190-GW-458-4	VX043602.D	29 Oct 2024 17:11	vial A pH<2	JC/MD	Ok
22	P4600-05	BP-VPB-190-GW-478-4	VX043603.D	29 Oct 2024 17:34	vial A pH<2 Internal standard fail	JC/MD	ReRun
23	P4600-06	BP-VPB-190-GW-498-5	VX043604.D	29 Oct 2024 17:57	vial A pH<2	JC/MD	Ok
24	P4600-07	BP-VPB-190-GW-518-5	VX043605.D	29 Oct 2024 18:20	vial A pH<2	JC/MD	Ok
25	P4562-01	Storage-Blank-SOIL-RE	VX043606.D	29 Oct 2024 18:43	vial A pH<2	JC/MD	Ok
26	P4562-01	Storage-Blank-SOIL-RE	VX043607.D	29 Oct 2024 19:06	vial A pH<2 Hit of com# 3	JC/MD	ReRun
27	VSTDCCC050	VSTDCCC050EC	VX043608.D	29 Oct 2024 19:29		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY100924

Review By	Mahesh Dadoda	Review On	10/10/2024 10:09:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/10/2024 10:11:49 PM		
SubDirectory	VY100924	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP130736
Initial Calibration Stds	VP130737,VP130738,VP130739,VP130740,VP130741,VP130742
CCC	VP130744,VP130745
Internal Standard/PEM	VP128297
ICV/I.BLK	VP130746
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019826.D	09 Oct 2024 09:33		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY019827.D	09 Oct 2024 10:18		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY019828.D	09 Oct 2024 10:41		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY019829.D	09 Oct 2024 11:04		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY019830.D	09 Oct 2024 11:26	Comp. #11 is on Linear Regression	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY019831.D	09 Oct 2024 11:49		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY019832.D	09 Oct 2024 12:11		SY/MD	Ok,M
8	VIBLK	VIBLK	VY019833.D	09 Oct 2024 12:35		SY/MD	Ok
9	VSTDICV050	ICVVY100924	VY019834.D	09 Oct 2024 15:25		SY/MD	Ok,M
10	VY1009SBL01	VY1009SBL01	VY019835.D	09 Oct 2024 16:11		SY/MD	Ok
11	VY1009SBS01	VY1009SBS01	VY019836.D	09 Oct 2024 16:41		SY/MD	Ok,M
12	VY1009SBSD01	VY1009SBSD01	VY019837.D	09 Oct 2024 17:04		SY/MD	Ok,M
13	P4343-01	EO-03-100724	VY019838.D	09 Oct 2024 17:27	vial-B Not purged	SY/MD	Not Ok
14	P4353-02	CF-400-VOC-43	VY019839.D	09 Oct 2024 17:51	vial-A	SY/MD	Ok
15	P4359-01	EXCAVATION-SOIL	VY019840.D	09 Oct 2024 18:14	vial-A	SY/MD	Ok
16	P4344-01	TR-05-100724	VY019841.D	09 Oct 2024 18:38	vial-B	SY/MD	Ok
17	VSTDCCC050	VSTDCCC050EC	VY019842.D	09 Oct 2024 19:00		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:18:01 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:20:22 PM
SubDirectory	VY102824	HP Acquire Method	HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP131128
Initial Calibration Stds	
CCC	VP131160,VP131161
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020028.D	28 Oct 2024 08:55		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020029.D	28 Oct 2024 09:29		SY/MD	Ok,M
3	VY1028SBL01	VY1028SBL01	VY020030.D	28 Oct 2024 09:58		SY/MD	Ok
4	VY1028SBS01	VY1028SBS01	VY020031.D	28 Oct 2024 10:40		SY/MD	Ok,M
5	VY1028SBSD01	VY1028SBSD01	VY020032.D	28 Oct 2024 11:02		SY/MD	Ok,M
6	P4578-03	WB-305-TOP	VY020033.D	28 Oct 2024 11:56	vial-A Internal Standard Fail	SY/MD	Ok
7	P4578-04	WB-305-TOP-1	VY020034.D	28 Oct 2024 12:19	vial-A	SY/MD	Ok
8	P4578-07	WB-305-BOT-1	VY020035.D	28 Oct 2024 12:43	vial-A	SY/MD	Ok
9	P4578-05	WB-305-BOT	VY020036.D	28 Oct 2024 13:06	vial-A Internal Standard Fail	SY/MD	ReRun
10	P4575-01	PL-02-102424	VY020037.D	28 Oct 2024 13:52	vial-A Internal Standard Fail	SY/MD	ReRun
11	P4574-04	GRAVEL-2	VY020038.D	28 Oct 2024 14:16	vial-A	SY/MD	Ok
12	P4574-01	GRAVEL-1	VY020039.D	28 Oct 2024 15:15	vial-A	SY/MD	Ok
13	P4577-01	TR-05-102524	VY020040.D	28 Oct 2024 15:41	vial-A	SY/MD	Ok
14	P4561-03	BP-F-19-VOC	VY020041.D	28 Oct 2024 16:05	vial-A	SY/MD	Ok
15	P4561-07	BP-F-18-VOC	VY020042.D	28 Oct 2024 16:28	vial-A Internal Standard Fail	SY/MD	ReRun
16	P4567-11	WC-3-VOC	VY020043.D	28 Oct 2024 17:05	vial-A	SY/MD	Ok
17	P4567-07	WC-2-VOC	VY020044.D	28 Oct 2024 17:28	vial-A	SY/MD	Ok
18	P4567-03	WC-1-VOC	VY020045.D	28 Oct 2024 17:51	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:18:01 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:20:22 PM
SubDirectory	VY102824	HP Acquire Method	HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP131128
Initial Calibration Stds	
CCC	VP131160,VP131161
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC050	VSTDCCC050EC	VY020046.D	28 Oct 2024 18:14		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:30:55 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:22:48 PM		
SubDirectory	VY102924	HP Acquire Method		HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131166
Initial Calibration Stds	
CCC	VP131167,VP131168
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020048.D	29 Oct 2024 08:58		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020049.D	29 Oct 2024 09:31		SY/MD	Ok,M
3	VY1029SBL01	VY1029SBL01	VY020050.D	29 Oct 2024 10:01		SY/MD	Ok
4	VY1029SBS01	VY1029SBS01	VY020051.D	29 Oct 2024 11:04		SY/MD	Ok,M
5	VY1029SBS02	VY1029SBS02	VY020052.D	29 Oct 2024 11:27	Not req.	SY/MD	Not Ok
6	P4566-01	HD-01-102524	VY020053.D	29 Oct 2024 12:05	vial-A	SY/MD	Ok
7	P4597-01	RED-1-1	VY020054.D	29 Oct 2024 12:28	vial-A	SY/MD	Ok
8	P4575-01RE	PL-02-102424RE	VY020055.D	29 Oct 2024 12:52	vial-B ISTD Fail	SY/MD	Confirms
9	P4597-07	BLUE-2-1	VY020056.D	29 Oct 2024 13:15	vial-A NOT PURGE	SY/MD	Not Ok
10	P4597-10	BLUE-2-2	VY020057.D	29 Oct 2024 13:38	vial-A	SY/MD	Ok
11	P4598-07	BP-F11-VOC	VY020058.D	29 Oct 2024 14:02	vial-A	SY/MD	Ok
12	P4598-03	BP-F12-VOC	VY020059.D	29 Oct 2024 14:25	vial-A	SY/MD	Ok
13	P4561-07RE	BP-F-18-VOCRE	VY020060.D	29 Oct 2024 14:49	vial-B Internal Standard Fail	SY/MD	Confirms
14	P4597-04	RED-1-2	VY020061.D	29 Oct 2024 15:12	vial-A	SY/MD	Ok
15	P4578-05	WB-305-BOT	VY020062.D	29 Oct 2024 15:36	vial-B	SY/MD	Ok
16	P4578-03RE	WB-305-TOPRE	VY020063.D	29 Oct 2024 15:59	vial-B Internal Standard Fail; Not match with first run	SY/MD	Not Ok
17	P4598-11	TP-8-VOC	VY020064.D	29 Oct 2024 16:22	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:30:55 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:22:48 PM		
SubDirectory	VY102924	HP Acquire Method		HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131166
Initial Calibration Stds	
CCC	VP131167,VP131168
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P4595-05	PITKIN-GRAB	VY020065.D	29 Oct 2024 16:46	vial-A	SY/MD	Ok
19	P4594-19	BP-F15-VOC	VY020066.D	29 Oct 2024 17:09	vial-A	SY/MD	Ok
20	P4594-11	BP-F16-VOC	VY020067.D	29 Oct 2024 17:33	vial-A	SY/MD	Ok
21	P4594-03	TP-4-VOC	VY020068.D	29 Oct 2024 17:56	vial-A	SY/MD	Ok
22	P4594-07	BP-F17-VOC	VY020069.D	29 Oct 2024 18:19	vial-A Internal Standard Fail	SY/MD	ReRun
23	P4594-15	TP-5-VOC	VY020070.D	29 Oct 2024 18:43	vial-A Internal Standard Fail	SY/MD	ReRun
24	VY1029SBS03	VY1029SBS03	VY020071.D	29 Oct 2024 19:06	Not req.	SY/MD	Not Ok
25	VY1029SBSD01	VY1029SBSD01	VY020072.D	29 Oct 2024 19:28		SY/MD	Ok,M
26	VSTDCCC050	VSTDCCC050EC	VY020073.D	29 Oct 2024 19:51		SY/MD	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP
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LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	**WB-305-SW**	**Water**			**10/25/24**			**10/25/24**
			VOC-TCLVOA-10	8260-Low			10/29/24	
P4578-02	**WB-305-SW-1**	**Water**			**10/25/24**			**10/25/24**
			VOC-TCLVOA-10	8260-Low			10/29/24	
P4578-03	**WB-305-TOP**	**SOIL**			**10/25/24**			**10/25/24**
			VOC-TCLVOA-10	8260D			10/28/24	
P4578-04	**WB-305-TOP-1**	**SOIL**			**10/25/24**			**10/25/24**
			VOC-TCLVOA-10	8260D			10/28/24	
P4578-05	**WB-305-BOT**	**SOIL**			**10/25/24**			**10/25/24**
			VOC-TCLVOA-10	8260D			10/29/24	
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP VOA	8260D			10/29/24	
P4578-07	**WB-305-BOT-1**	**SOIL**			**10/25/24**			**10/25/24**
			VOC-TCLVOA-10	8260D			10/28/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP VOA	8260D			10/29/24	
P4578-09	**TB-10252024**	**Water**			**10/25/24**			**10/25/24**
			VOC-TCLVOA-10	8260-Low			10/29/24	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020063.D
Acq On : 29 Oct 2024 15:59
Operator : SY/MD
Sample : P4578-03RE
Misc : 7.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOPRE

Quant Time: Oct 30 06:36:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

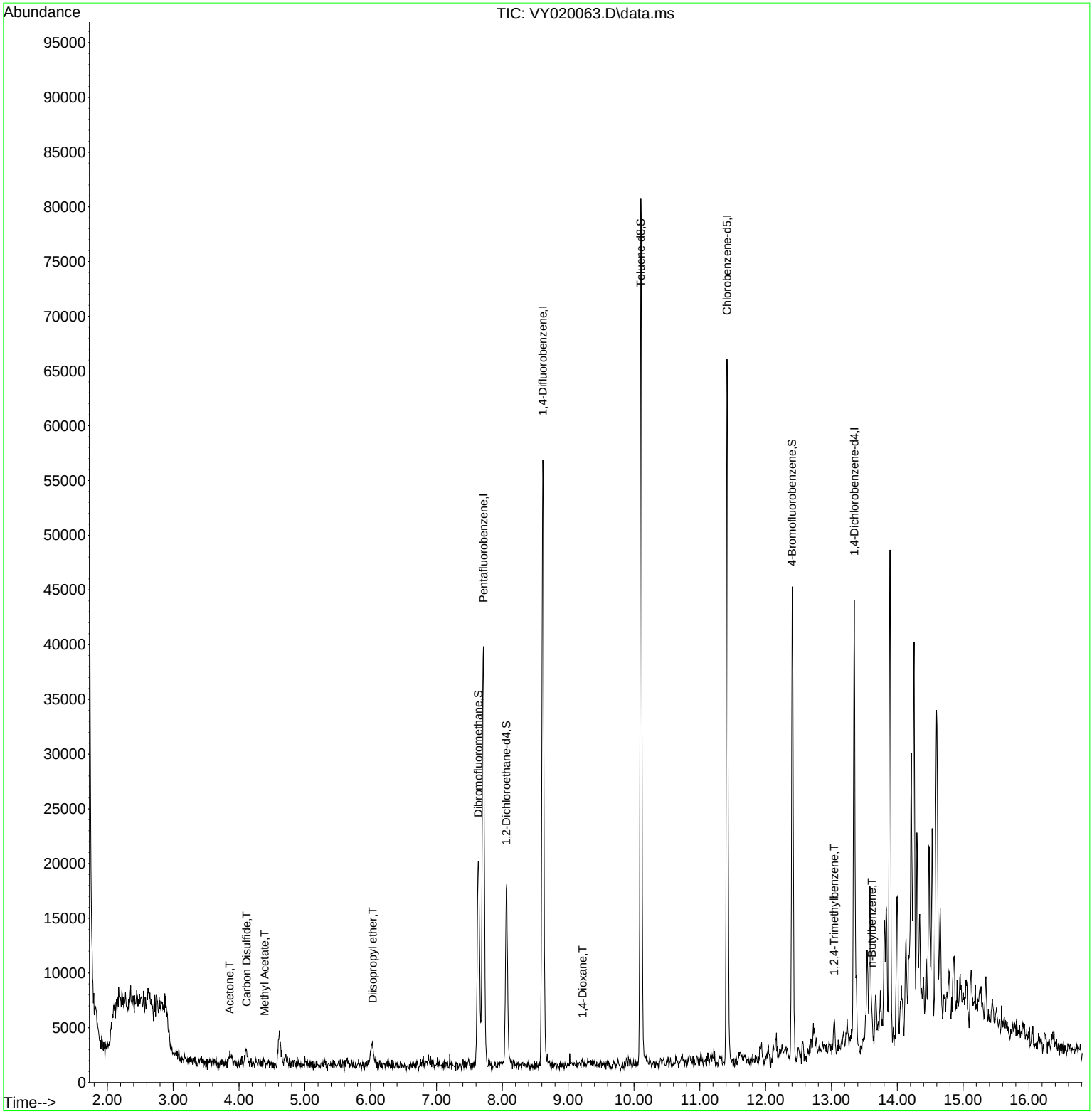
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	25467	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	44048	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	31461	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	8551	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	12699	40.498	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	81.000%		
35) Dibromofluoromethane	7.634	113	14014	48.213	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	96.420%		
50) Toluene-d8	10.103	98	50490	47.038	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	94.080%		
62) 4-Bromofluorobenzene	12.402	95	10871	28.029	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	56.060%		
Target Compounds						Qvalue
16) Acetone	3.854	43	1927	23.607	ug/l #	63
17) Carbon Disulfide	4.116	76	2758	3.766	ug/l	100
18) Methyl Acetate	4.391	43	903	5.135	ug/l #	51
22) Diisopropyl ether	6.031	45	3041	2.832	ug/l #	64
49) 1,4-Dioxane	9.219	88	272	140.226	ug/l #	99
84) 1,2,4-Trimethylbenzene	13.042	105	1748	3.035	ug/l	65
89) n-Butylbenzene	13.615	91	1192	1.934	ug/l #	63

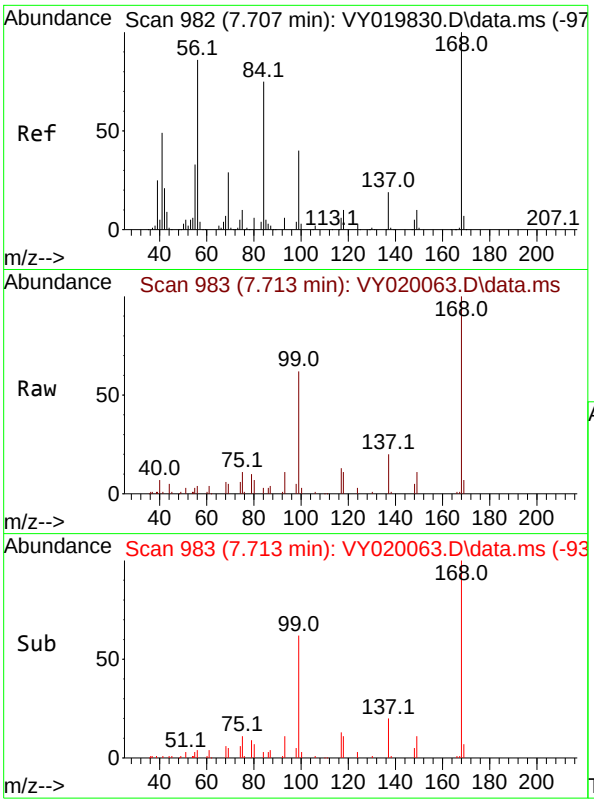
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020063.D
Acq On : 29 Oct 2024 15:59
Operator : SY/MD
Sample : P4578-03RE
Misc : 7.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOPRE

Quant Time: Oct 30 06:36:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



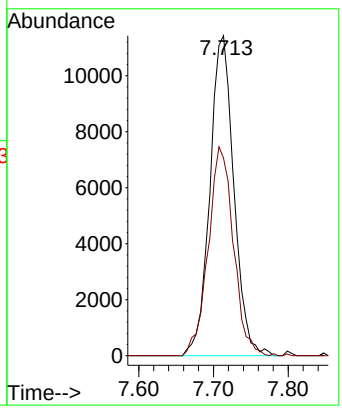


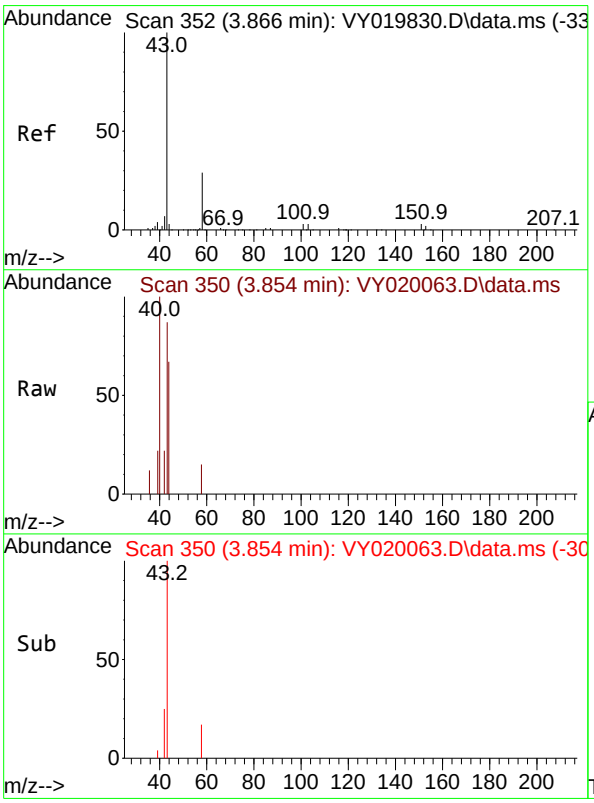
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOPRE

Tgt Ion:168 Resp: 25467

Ion	Ratio	Lower	Upper
168	100		
99	61.8	39.1	58.7#

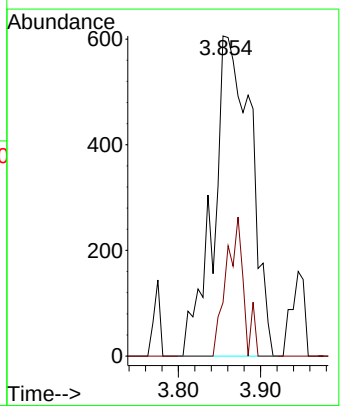


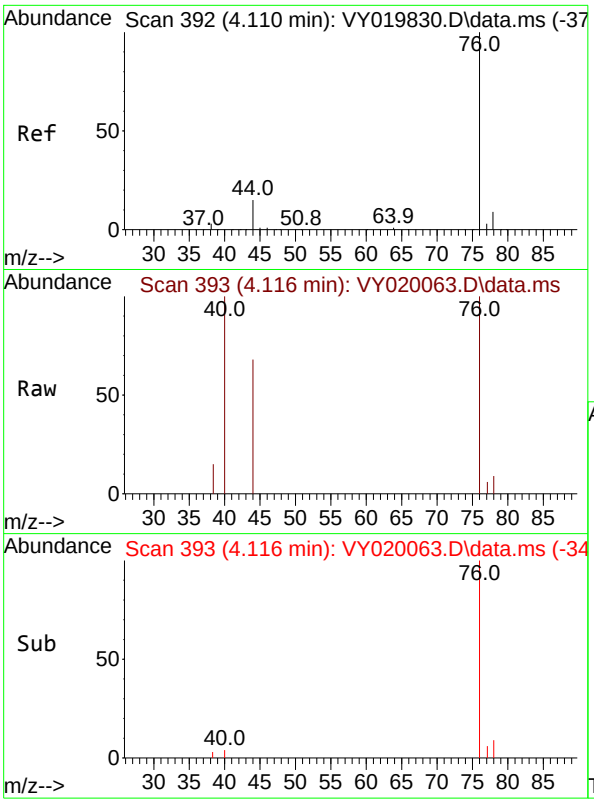


#16
Acetone
Concen: 23.607 ug/l
RT: 3.854 min Scan# 350
Delta R.T. -0.018 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion: 43 Resp: 1927

Ion	Ratio	Lower	Upper
43	100		
58	16.7	31.7	47.5#



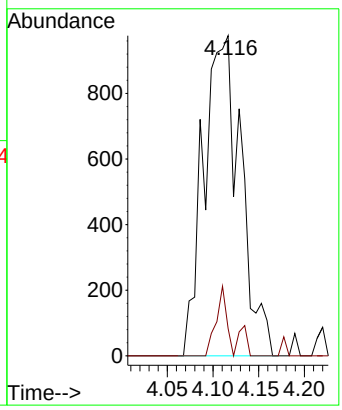


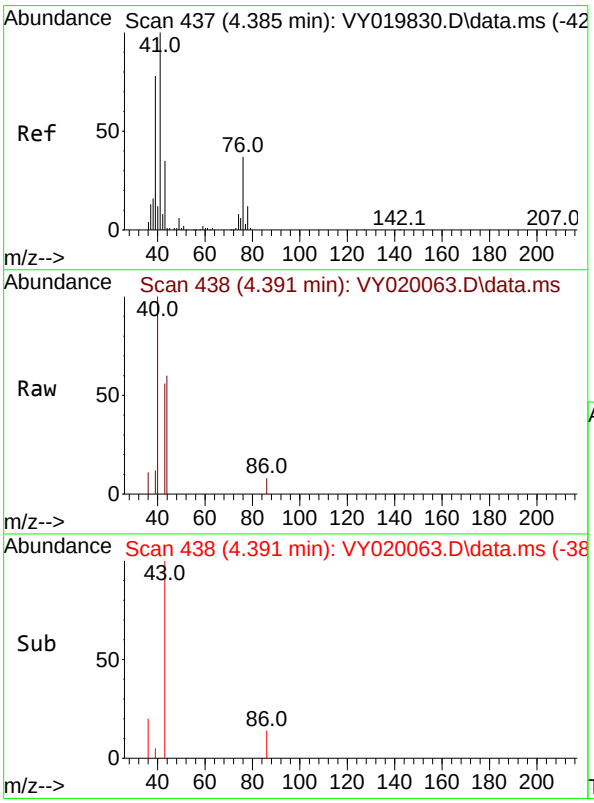
#17
Carbon Disulfide
Concen: 3.766 ug/l
RT: 4.116 min Scan# 3
Delta R.T. 0.013 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOPRE

Tgt Ion: 76 Resp: 2758

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.8	10.2

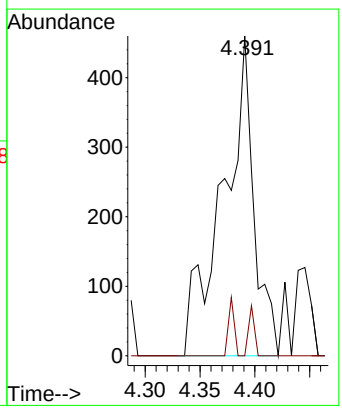


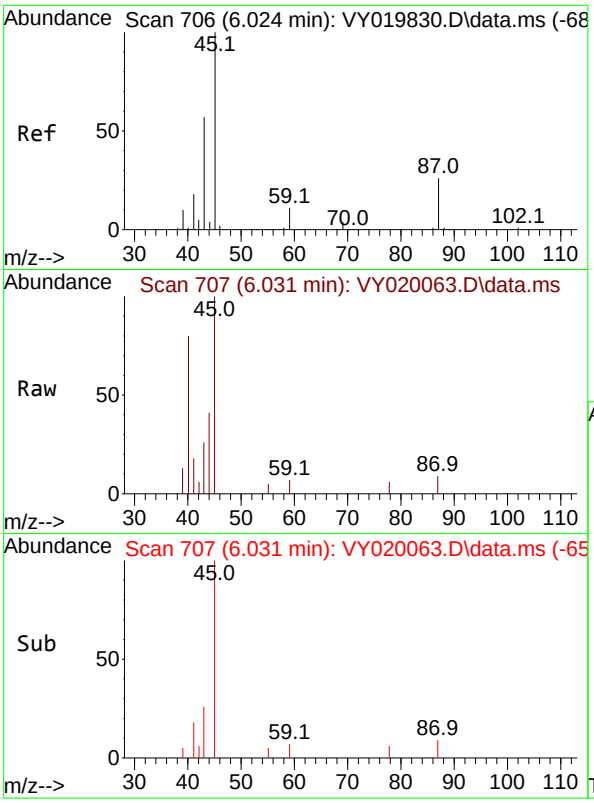


#18
Methyl Acetate
Concen: 5.135 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion: 43 Resp: 903

Ion	Ratio	Lower	Upper
43	100		
74	2.9	23.3	34.9#



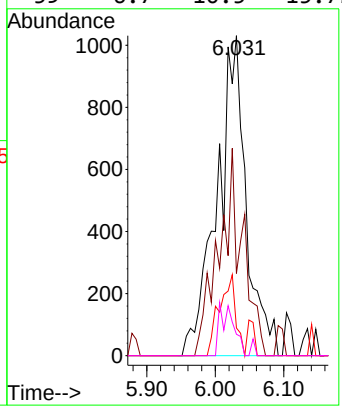


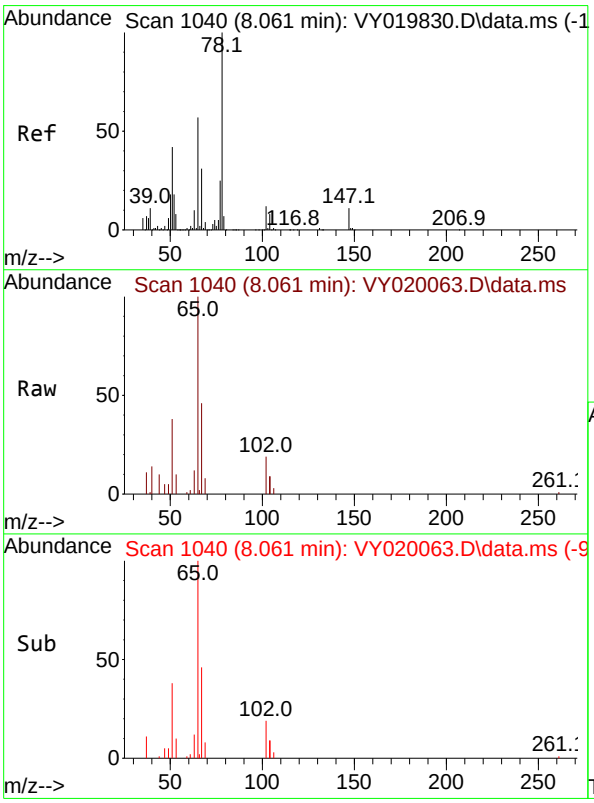
#22
Diisopropyl ether
Concen: 2.832 ug/l
RT: 6.031 min Scan# 7
Delta R.T. 0.013 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOPRE

Tgt Ion: 45 Resp: 3041

Ion	Ratio	Lower	Upper
45	100		
43	25.7	42.2	63.2#
87	8.6	25.0	37.6#
59	6.7	10.5	15.7#

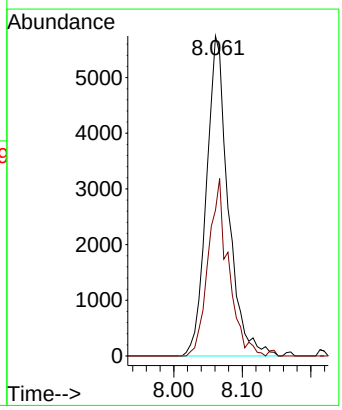


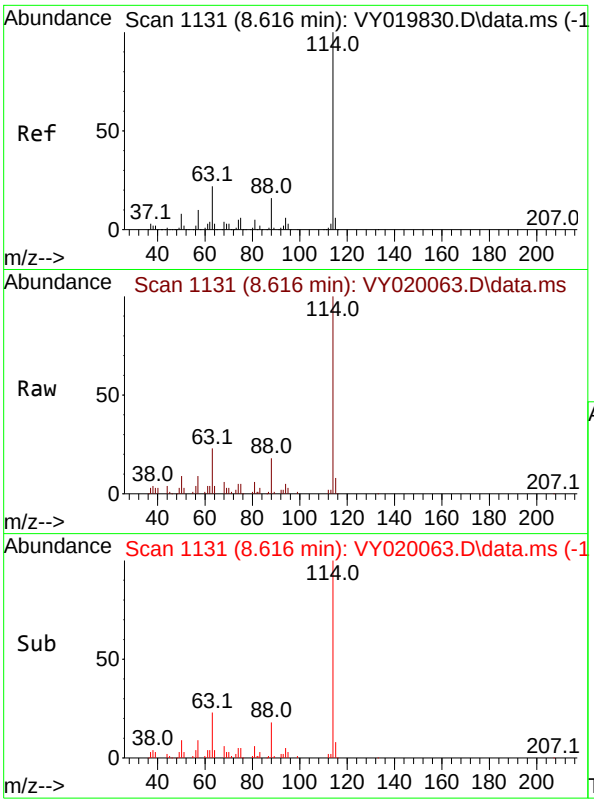


#33
1,2-Dichloroethane-d4
Concen: 40.498 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion: 65 Resp: 12699

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	109.6



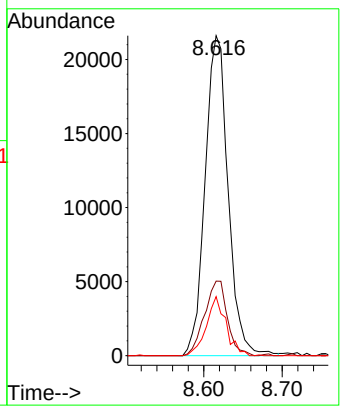


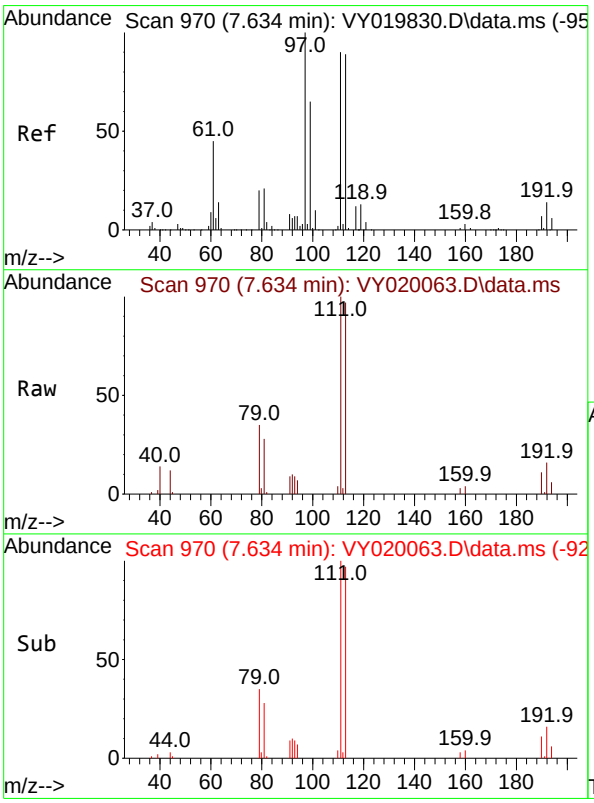
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOPRE

Tgt Ion:114 Resp: 44048

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	35.0
88	18.4	0.0	27.2

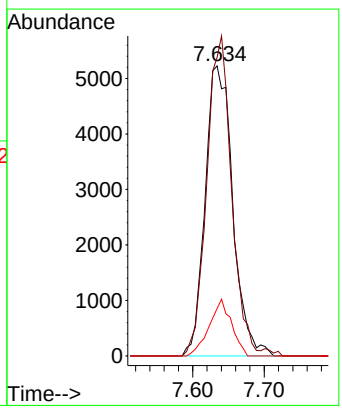


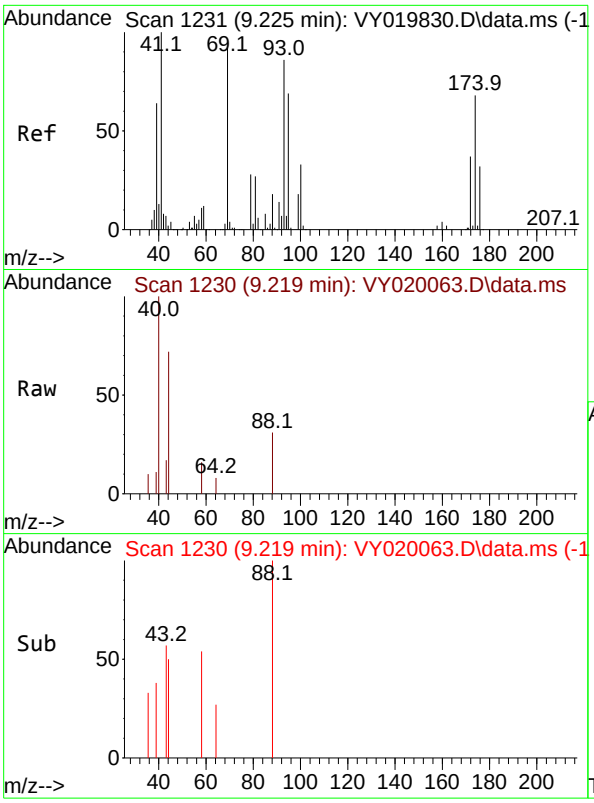


#35
Dibromofluoromethane
Concen: 48.213 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion:113 Resp: 14014

Ion	Ratio	Lower	Upper
113	100		
111	98.9	82.2	123.4
192	15.8	15.9	23.9#



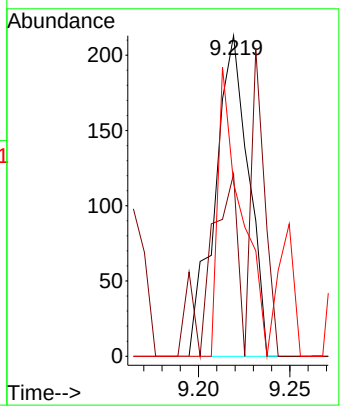


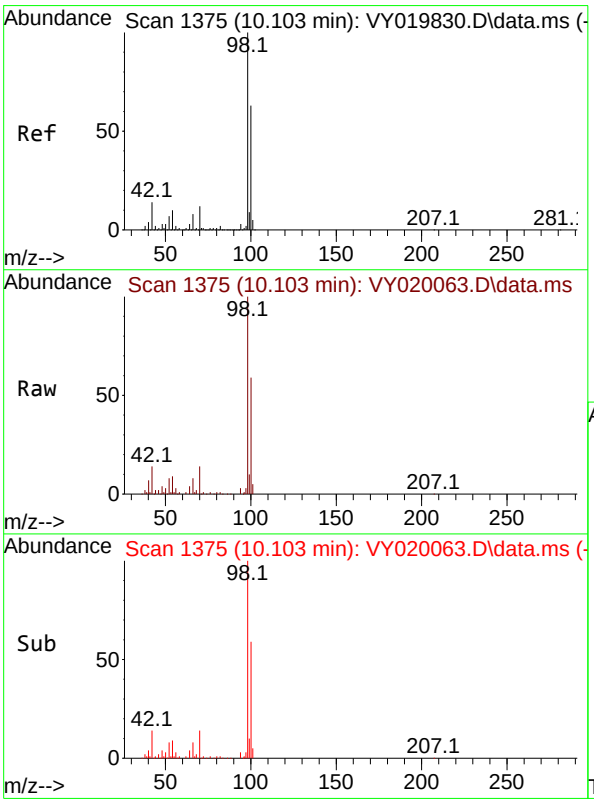
#49
1,4-Dioxane
Concen: 140.226 ug/l
RT: 9.219 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOPRE

Tgt Ion: 88 Resp: 272

Ion	Ratio	Lower	Upper
88	100		
43	47.8	0.0	0.0#
58	62.1	49.3	73.9

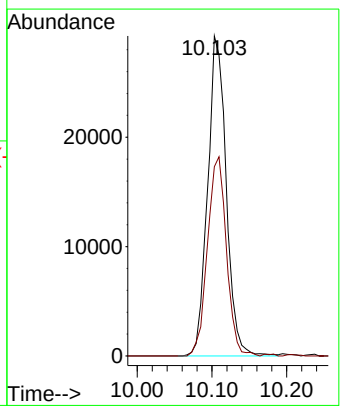


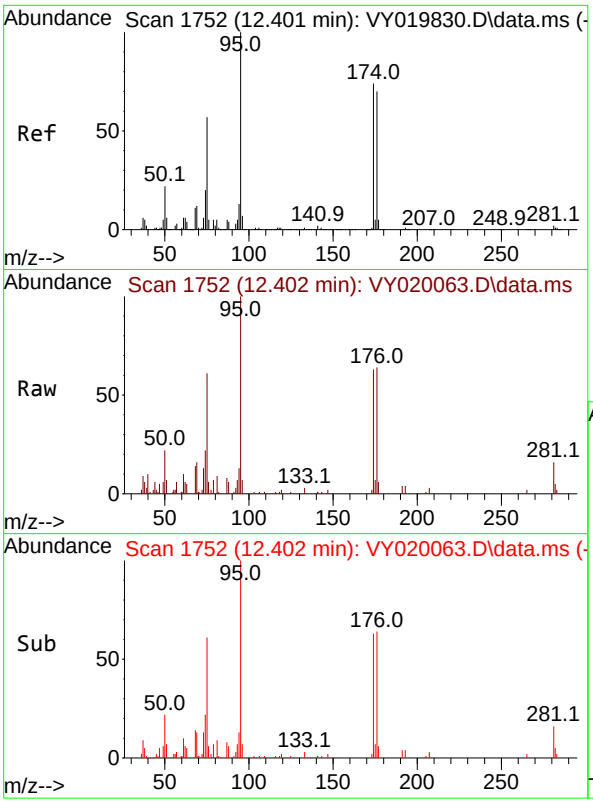


#50
Toluene-d8
Concen: 47.038 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion: 98 Resp: 50490

Ion	Ratio	Lower	Upper
98	100		
100	63.6	52.0	78.0



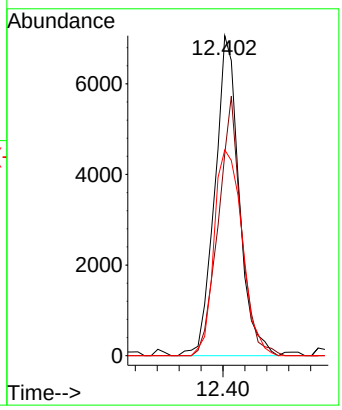


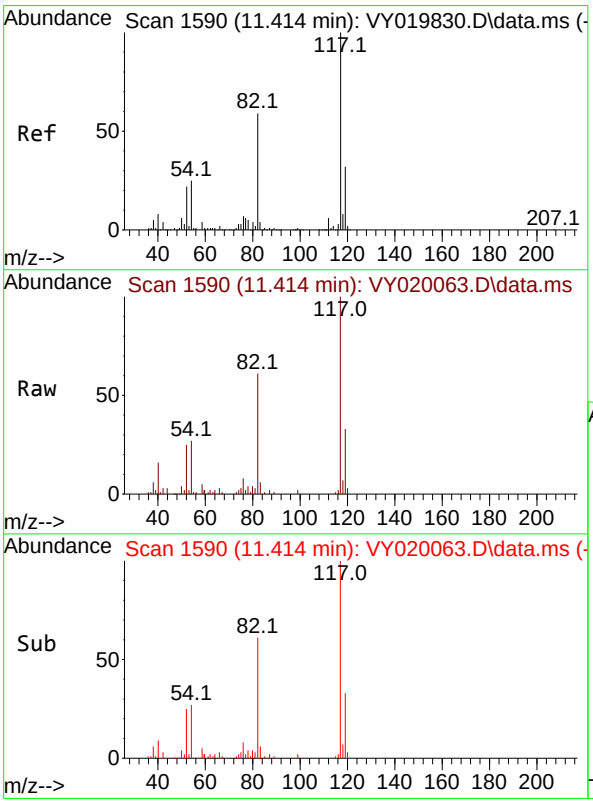
#62
4-Bromofluorobenzene
Concen: 28.029 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOPRE

Tgt Ion: 95 Resp: 10871

Ion	Ratio	Lower	Upper
95	100		
174	76.5	0.0	175.6
176	74.6	0.0	171.4

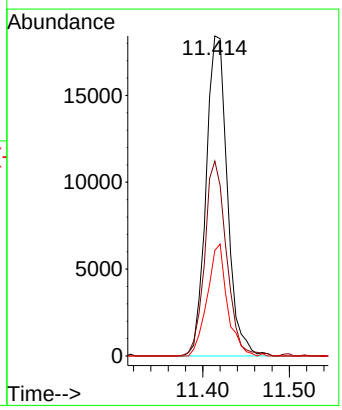


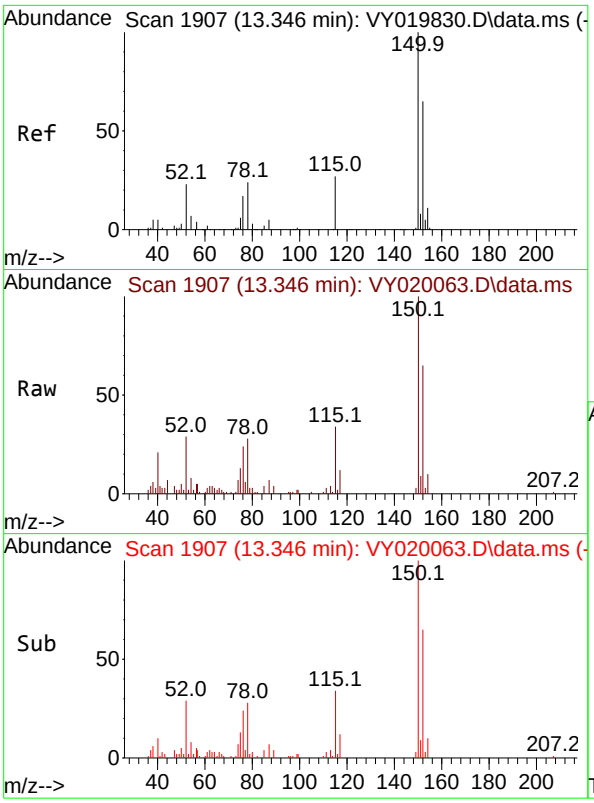


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion:117 Resp: 31461

Ion	Ratio	Lower	Upper
117	100		
82	60.9	42.4	63.6
119	33.0	25.9	38.9



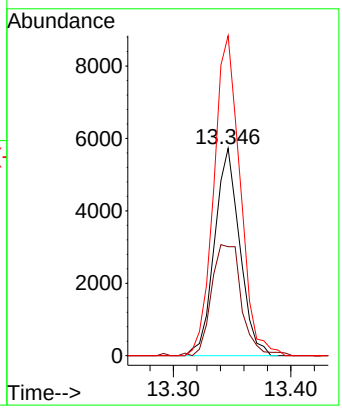


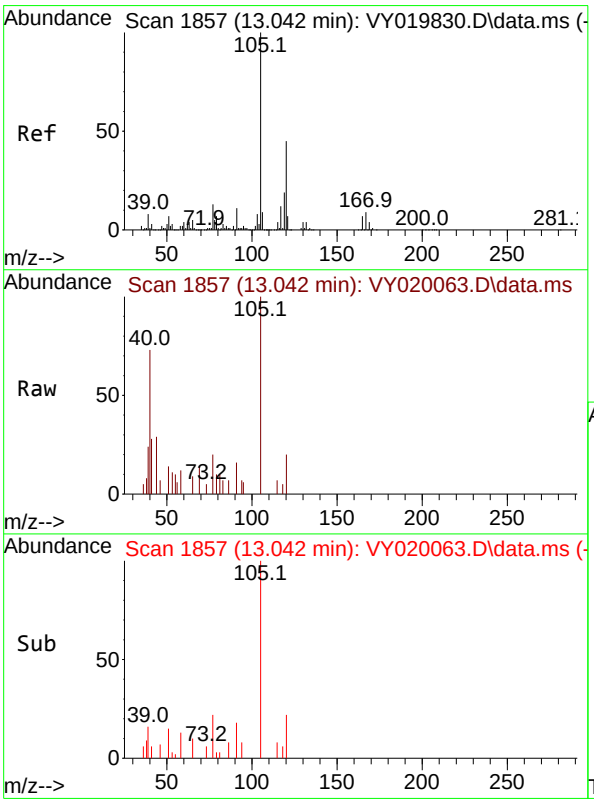
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOPRE

Tgt Ion:152 Resp: 8551

Ion	Ratio	Lower	Upper
152	100		
115	63.8	28.2	84.7
150	161.0	0.0	345.6

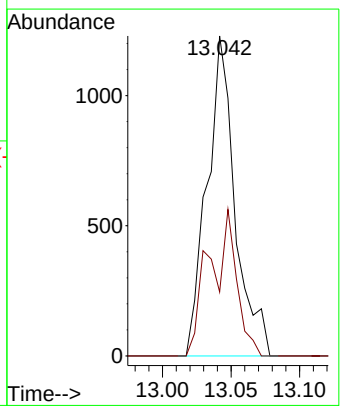


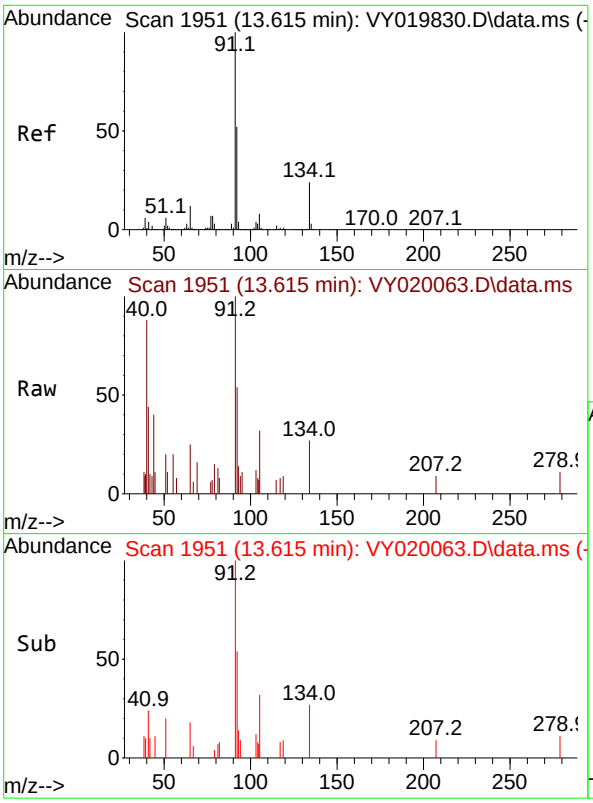


#84
1,2,4-Trimethylbenzene
Concen: 3.035 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion:105 Resp: 1748

Ion	Ratio	Lower	Upper
105	100		
120	23.2	23.2	69.6



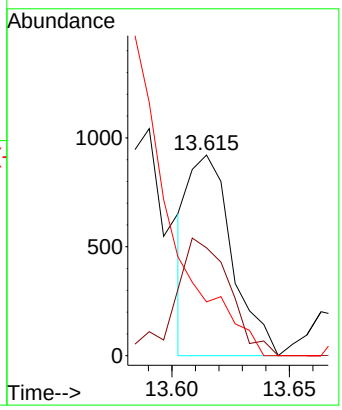


#89
n-Butylbenzene
Concen: 1.934 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOPRE

Tgt Ion: 91 Resp: 1192

Ion	Ratio	Lower	Upper
91	100		
92	74.9	26.6	79.7
134	0.0	12.9	38.7#



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								

0

Total Voc :

Total Concentration:

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-06	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084565.D	1		10/29/24 15:41	VN102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.6		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	48.6		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	154000	8.224			
540-36-3	1,4-Difluorobenzene	283000	9.1			
3114-55-4	Chlorobenzene-d5	252000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	103000	13.788			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-08	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084566.D	1		10/29/24 16:05	VN102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	49.9		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.0		70 (77) - 130 (121)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	155000	8.224			
540-36-3	1,4-Difluorobenzene	289000	9.1			
3114-55-4	Chlorobenzene-d5	273000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.788			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4578-06	WB-305-BOT	1,2-Dichloroethane-d4	50	50.6	101	70 (74)	130 (125)
		Dibromofluoromethane	50	49.3	99	70 (75)	130 (124)
		Toluene-d8	50	48.6	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.4	97	70 (77)	130 (121)
P4578-08	WB-305-BOT-1	1,2-Dichloroethane-d4	50	51.1	102	70 (74)	130 (125)
		Dibromofluoromethane	50	49.1	98	70 (75)	130 (124)
		Toluene-d8	50	49.9	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.0	108	70 (77)	130 (121)
VN1029WBL01	VN1029WBL01	1,2-Dichloroethane-d4	50	49.4	99	70 (74)	130 (125)
		Dibromofluoromethane	50	51.5	103	70 (75)	130 (124)
		Toluene-d8	50	47.8	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	42.4	85	70 (77)	130 (121)
VN1029WBS01	VN1029WBS01	1,2-Dichloroethane-d4	50	48.5	97	70 (74)	130 (125)
		Dibromofluoromethane	50	52.9	106	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.0	102	70 (77)	130 (121)
VN1029WBSD0	VN1029WBSD01	1,2-Dichloroethane-d4	50	50.1	100	70 (74)	130 (125)
		Dibromofluoromethane	50	53.7	107	70 (75)	130 (124)
		Toluene-d8	50	50.2	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.3	103	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VN084555.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1029WBS01	Vinyl chloride	20	19.4	ug/L	97			70 (65)	130 (117)	
	1,1-Dichloroethene	20	20.8	ug/L	104			70 (74)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	22.5	ug/L	113			70 (77)	130 (113)	
	Chloroform	20	22.1	ug/L	111			70 (79)	130 (113)	
	Benzene	20	22.5	ug/L	113			70 (82)	130 (109)	
	1,2-Dichloroethane	20	22.7	ug/L	114			70 (80)	130 (115)	
	Trichloroethene	20	22.0	ug/L	110			70 (77)	130 (113)	
	Tetrachloroethene	20	22.3	ug/L	112			70 (67)	130 (123)	
	Chlorobenzene	20	21.8	ug/L	109			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VN084556.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1029WBSD01	Vinyl chloride	20	20.6	ug/L	103	6		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	21.5	ug/L	108	4		70 (74)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	10		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	22.3	ug/L	112	1		70 (77)	130 (113)	20 (20)
	Chloroform	20	22.9	ug/L	115	4		70 (79)	130 (113)	20 (20)
	Benzene	20	22.5	ug/L	113	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	22.7	ug/L	114	0		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	21.7	ug/L	109	1		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	21.6	ug/L	108	4		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	22.3	ug/L	112	3		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1029WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VN084554.D Lab Sample ID: VN1029WBL01

Date Analyzed: 10/29/2024 Time Analyzed: 10:59

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1029WBS01	VN1029WBS01	VN084555.D	10/29/2024
VN1029WBSD01	VN1029WBSD01	VN084556.D	10/29/2024
WB-305-BOT	P4578-06	VN084565.D	10/29/2024
WB-305-BOT-1	P4578-08	VN084566.D	10/29/2024

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VN084211.D BFB Injection Date: 09/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:24

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	71
175	5.0 - 9.0% of mass 174	5.5 (7.8) 1
176	95.0 - 101.0% of mass 174	69.7 (98.2) 1
177	5.0 - 9.0% of mass 176	4.9 (7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN084213.D	09/30/2024	12:25
VSTDICCC050	VSTDICCC050	VN084214.D	09/30/2024	12:49
VSTDICC020	VSTDICC020	VN084215.D	09/30/2024	13:13
VSTDICC010	VSTDICC010	VN084216.D	09/30/2024	13:37
VSTDICC005	VSTDICC005	VN084217.D	09/30/2024	14:00
VSTDICC001	VSTDICC001	VN084218.D	09/30/2024	14:48

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VN084551.D BFB Injection Date: 10/29/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:05

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	51.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	75.4
175	5.0 - 9.0% of mass 174	5.8 (7.7) 1
176	95.0 - 101.0% of mass 174	71.7 (95.1) 1
177	5.0 - 9.0% of mass 176	5 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN084552.D	10/29/2024	09:52
VN1029WBL01	VN1029WBL01	VN084554.D	10/29/2024	10:59
VN1029WBS01	VN1029WBS01	VN084555.D	10/29/2024	11:41
VN1029WBSD01	VN1029WBSD01	VN084556.D	10/29/2024	12:05
WB-305-BOT	P4578-06	VN084565.D	10/29/2024	15:41
WB-305-BOT-1	P4578-08	VN084566.D	10/29/2024	16:05

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VN084552.D Date Analyzed: 10/29/2024

Instrument ID: MSVOA_N Time Analyzed: 09:52

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	161836	8.22	272446	9.10	241558	11.87
UPPER LIMIT	323672	8.718	544892	9.6	483116	12.365
LOWER LIMIT	80918	7.718	136223	8.6	120779	11.365
EPA SAMPLE NO.						
WB-305-BOT	153660	8.22	282987	9.10	251597	11.87
WB-305-BOT-1	154983	8.22	288756	9.10	273279	11.87
VN1029WBL01	172818	8.22	299281	9.10	246662	11.87
VN1029WBS01	153415	8.22	256992	9.10	228427	11.87
VN1029WBSD01	147044	8.22	252203	9.10	221290	11.87

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: VN084552.D Date Analyzed: 10/29/2024

Instrument ID: MSVOA_N Time Analyzed: 09:52

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	120545	13.788				
UPPER LIMIT	241090	14.288				
LOWER LIMIT	60272.5	13.288				
EPA SAMPLE NO.						
WB-305-BOT	102583	13.79				
WB-305-BOT-1	126082	13.79				
VN1029WBL01	92882	13.79				
VN1029WBS01	115296	13.79				
VN1029WBSD01	110005	13.79				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1029WBL01	SDG No.:	P4578
Lab Sample ID:	VN1029WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084554.D	1		10/29/24 10:59	VN102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.4		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	47.8		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.4		70 (77) - 130 (121)	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	8.218			
540-36-3	1,4-Difluorobenzene	299000	9.1			
3114-55-4	Chlorobenzene-d5	247000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	92900	13.788			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1029WBS01	SDG No.:	P4578
Lab Sample ID:	VN1029WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084555.D	1		10/29/24 11:41	VN102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	19.4		0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	20.8		0.26	5.00	ug/L
78-93-3	2-Butanone	100		1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	22.5		0.25	5.00	ug/L
67-66-3	Chloroform	22.1		0.26	5.00	ug/L
71-43-2	Benzene	22.5		0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	22.7		0.24	5.00	ug/L
79-01-6	Trichloroethene	22.0		0.32	5.00	ug/L
127-18-4	Tetrachloroethene	22.3		0.25	5.00	ug/L
108-90-7	Chlorobenzene	21.8		0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	153000	8.224			
540-36-3	1,4-Difluorobenzene	257000	9.1			
3114-55-4	Chlorobenzene-d5	228000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.788			

U = Not Detected
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A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1029WBSD01	SDG No.:	P4578
Lab Sample ID:	VN1029WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084556.D	1		10/29/24 12:05	VN102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	20.6		0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	21.5		0.26	5.00	ug/L
78-93-3	2-Butanone	110		1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	22.3		0.25	5.00	ug/L
67-66-3	Chloroform	22.9		0.26	5.00	ug/L
71-43-2	Benzene	22.5		0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	22.7		0.24	5.00	ug/L
79-01-6	Trichloroethene	21.7		0.32	5.00	ug/L
127-18-4	Tetrachloroethene	21.6		0.25	5.00	ug/L
108-90-7	Chlorobenzene	22.3		0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	53.7		70 (75) - 130 (124)	107%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	147000	8.224			
540-36-3	1,4-Difluorobenzene	252000	9.1			
3114-55-4	Chlorobenzene-d5	221000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	110000	13.788			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_N Calibration Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 12:25 14:48

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF100 = VN084213.D RRF050 = VN084214.D RRF020 = VN084215.D
RRF010 = VN084216.D RRF005 = VN084217.D RRF001 = VN084218.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Vinyl Chloride	0.611	0.667	0.665	0.641	0.724	0.617	0.654	6.4
1,1-Dichloroethene	0.538	0.587	0.596	0.533	0.631	0.493	0.563	8.9
2-Butanone	0.395	0.452	0.465	0.419	0.467	0.404	0.434	7.3
Carbon Tetrachloride	0.515	0.549	0.553	0.508	0.545	0.482	0.525	5.4
Chloroform	1.083	1.204	1.205	1.117	1.259	1.181	1.175	5.5
Benzene	1.434	1.553	1.559	1.410	1.574	1.421	1.492	5.2
1,2-Dichloroethane	0.480	0.528	0.524	0.498	0.544	0.460	0.506	6.3
Trichloroethene	0.334	0.362	0.361	0.329	0.379	0.325	0.348	6.3
Tetrachloroethene	0.323	0.359	0.351	0.338	0.373	0.346	0.348	5
Chlorobenzene	1.068	1.170	1.143	1.069	1.173	1.028	1.109	5.5
1,2-Dichloroethane-d4	0.673	0.737	0.764	0.712	0.821		0.741	7.5
Dibromofluoromethane	0.308	0.324	0.341	0.316	0.359		0.330	6.1
Toluene-d8	1.189	1.243	1.242	1.148	1.242		1.213	3.5
4-Bromofluorobenzene	0.447	0.452	0.449	0.406	0.456		0.442	4.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_N Calibration Date/Time: 10/29/2024 09:52

Lab File ID: VN084552.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.654	0.570		-12.84	20
1,1-Dichloroethene	0.563	0.531		-5.68	20
2-Butanone	0.434	0.395		-8.99	20
Carbon Tetrachloride	0.525	0.530		0.95	20
Chloroform	1.175	1.178		0.25	20
Benzene	1.492	1.499		0.47	20
1,2-Dichloroethane	0.506	0.509		0.59	20
Trichloroethene	0.348	0.327		-6.03	20
Tetrachloroethene	0.348	0.326		-6.32	20
Chlorobenzene	1.109	1.109	0.3	0	20
1,2-Dichloroethane-d4	0.741	0.709		-4.32	20
Dibromofluoromethane	0.330	0.344		4.24	20
Toluene-d8	1.213	1.193		-1.65	20
4-Bromofluorobenzene	0.442	0.446		0.9	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084565.D
Acq On : 29 Oct 2024 15:41
Operator : JC\MD
Sample : P4578-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT

Quant Time: Oct 30 05:04:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

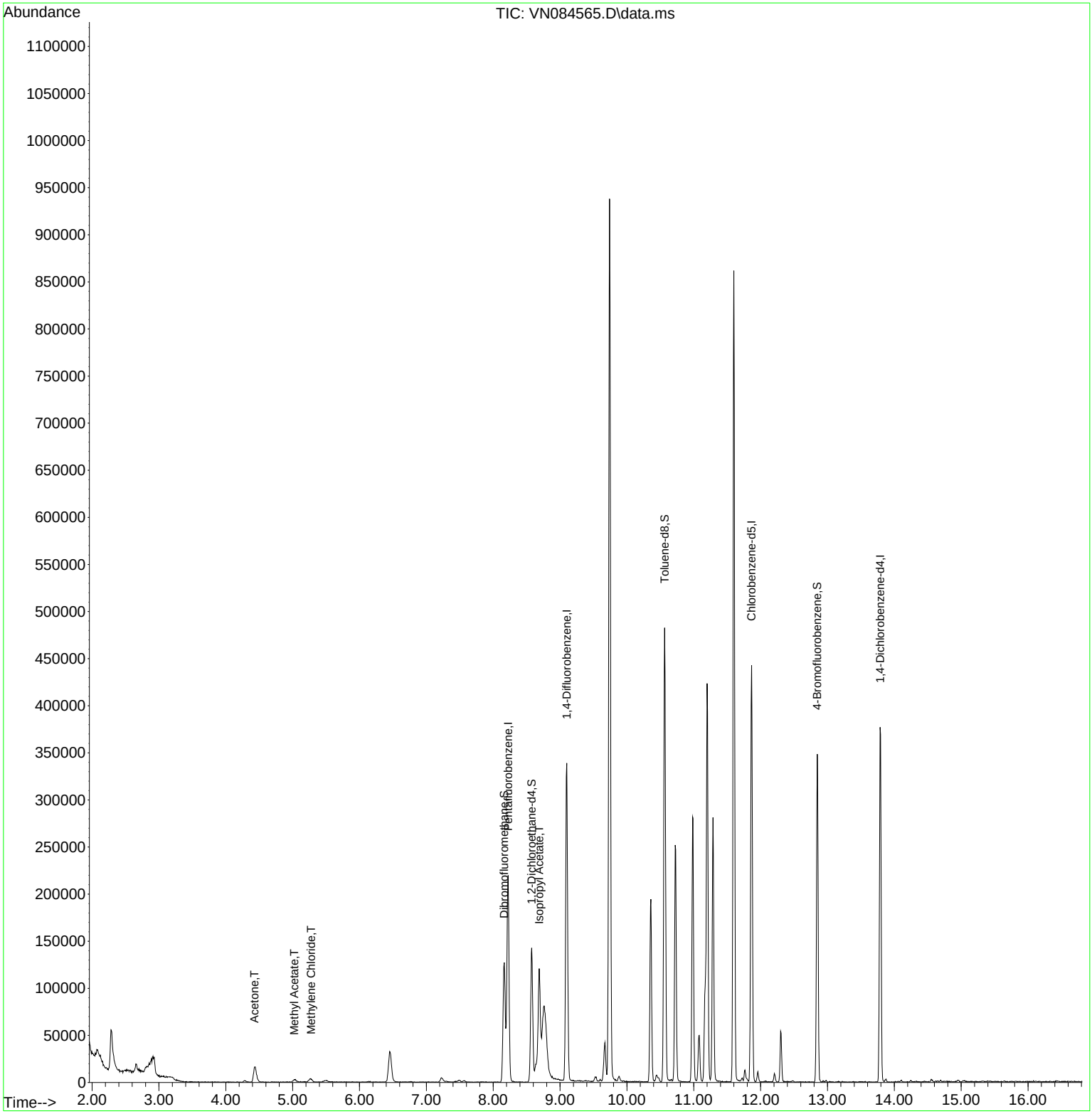
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	153660	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	282987	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	251597	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	102583	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	115366	50.637	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.280%			
35) Dibromofluoromethane	8.165	113	91913	49.267	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.540%			
50) Toluene-d8	10.565	98	333504	48.589	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.180%			
62) 4-Bromofluorobenzene	12.847	95	121123	48.438	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.880%			
Target Compounds						Qvalue
16) Acetone	4.430	43	32247	32.949	ug/l	99
18) Methyl Acetate	5.024	43	5853	2.744	ug/l	92
20) Methylene Chloride	5.277	84	3038	1.527	ug/l #	78
43) Isopropyl Acetate	8.688	43	161001	29.566	ug/l #	80

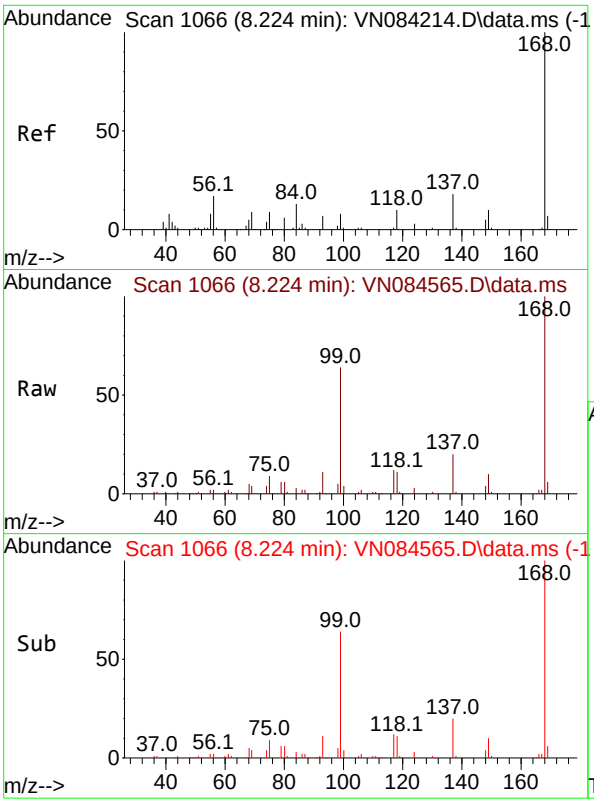
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084565.D
Acq On : 29 Oct 2024 15:41
Operator : JC\MD
Sample : P4578-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT

Quant Time: Oct 30 05:04:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



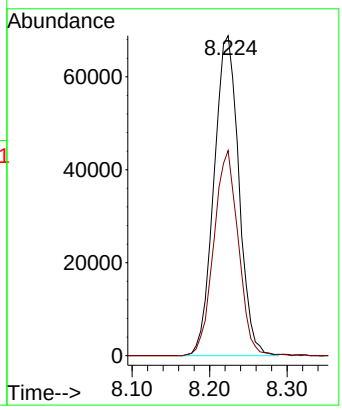


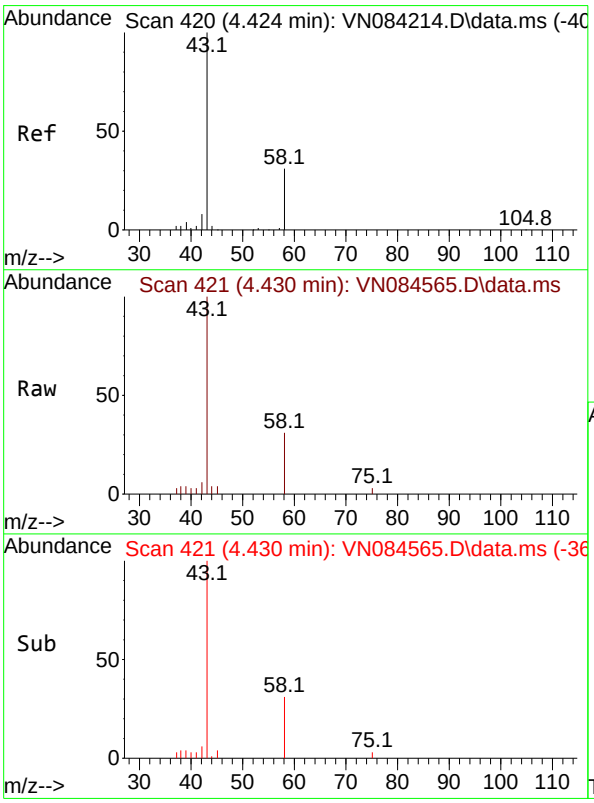
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT

Tgt Ion:168 Resp: 153660

Ion	Ratio	Lower	Upper
168	100		
99	64.1	54.2	81.2

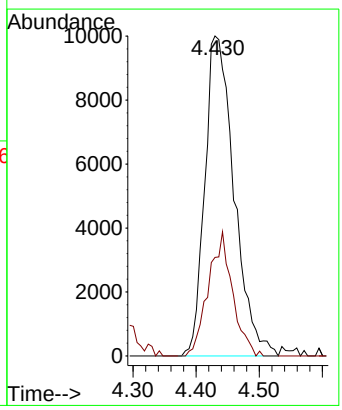


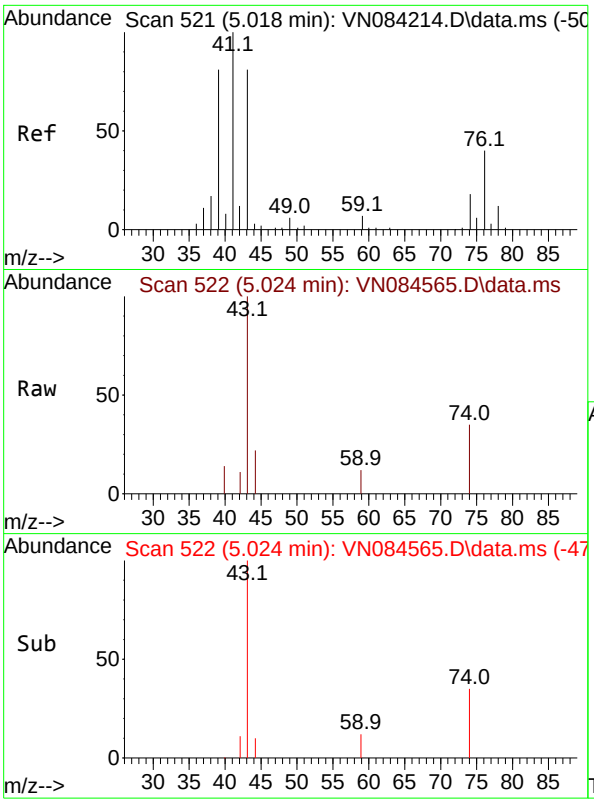


#16
Acetone
Concen: 32.949 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Tgt Ion: 43 Resp: 32247

Ion	Ratio	Lower	Upper
43	100		
58	30.8	24.4	36.6



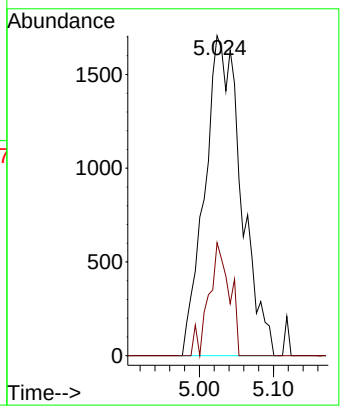


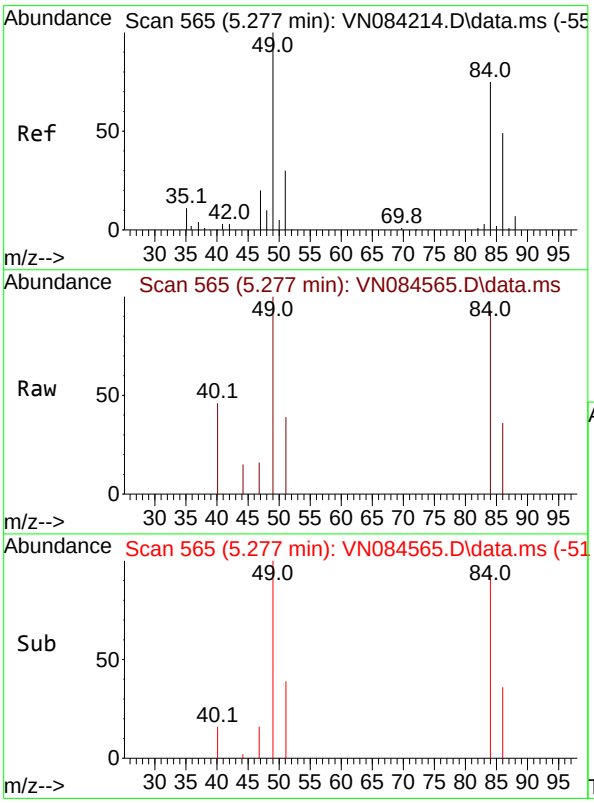
#18
Methyl Acetate
Concen: 2.744 ug/l
RT: 5.024 min Scan# 5
Delta R.T. 0.006 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT

Tgt Ion: 43 Resp: 5853

Ion	Ratio	Lower	Upper
43	100		
74	19.9	19.2	28.8

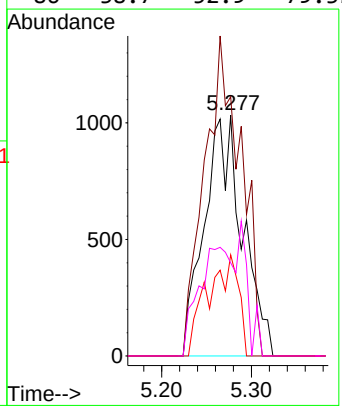


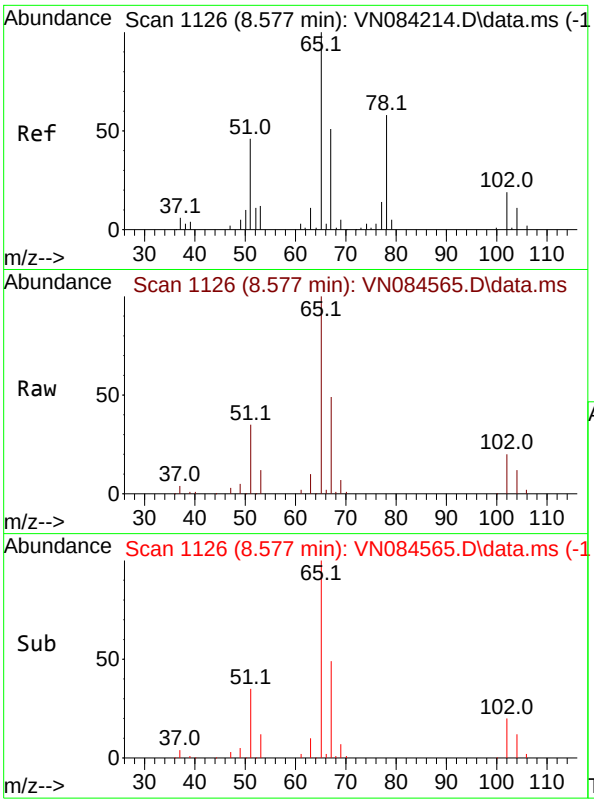


#20
Methylene Chloride
Concen: 1.527 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Tgt Ion: 84 Resp: 3038

Ion	Ratio	Lower	Upper
84	100		
49	107.6	107.2	160.8
51	42.0	31.8	47.8
86	38.7	52.9	79.3#



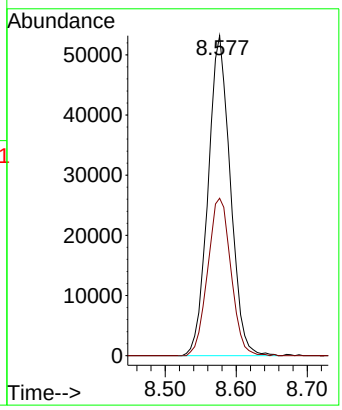


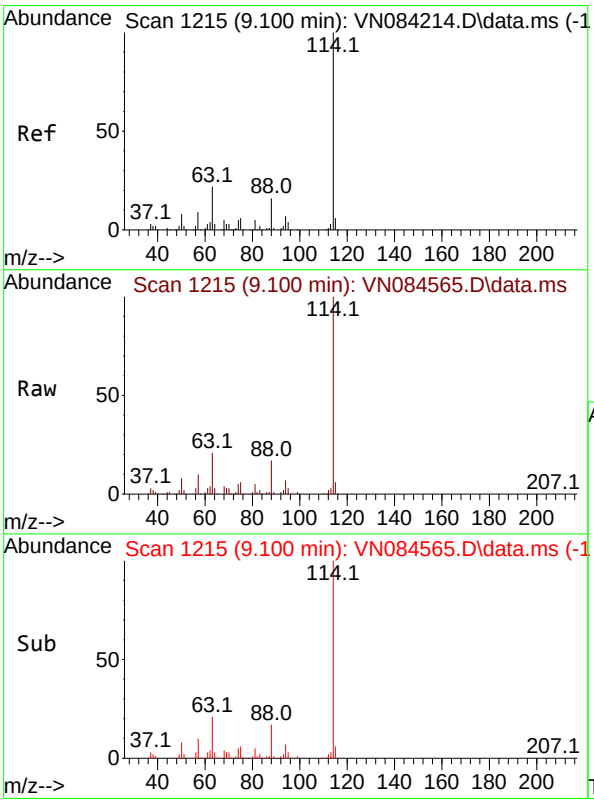
#33
1,2-Dichloroethane-d4
Concen: 50.637 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT

Tgt Ion: 65 Resp: 115366

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	102.0

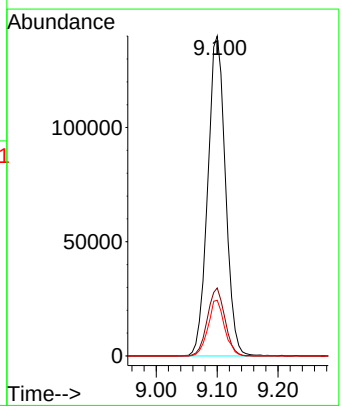


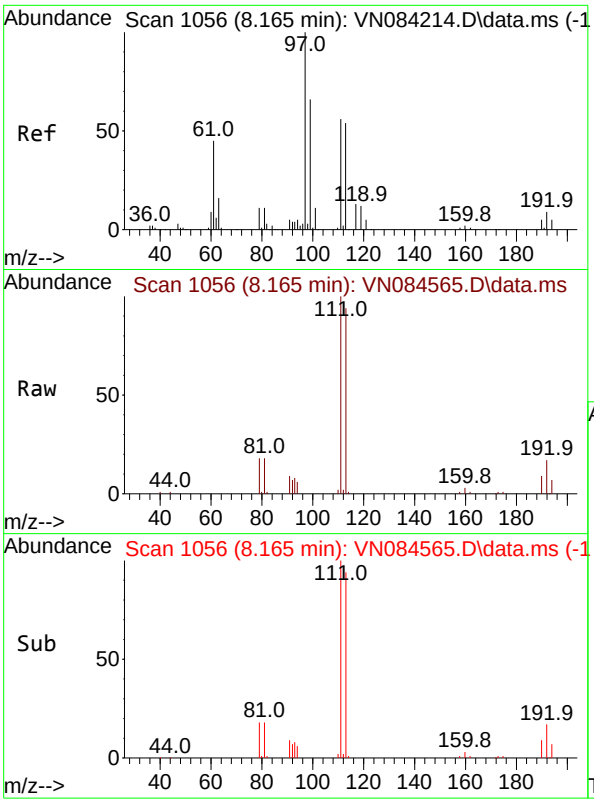


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Tgt Ion:114 Resp: 282987

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.8
88	17.4	0.0	31.6



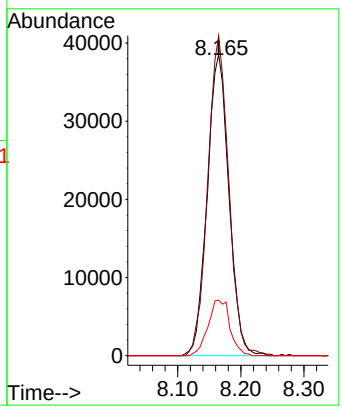


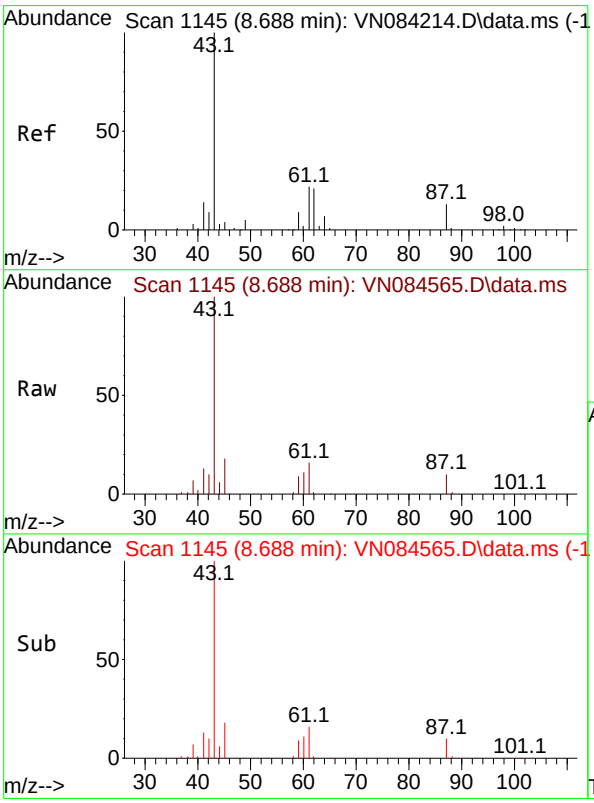
#35
Dibromofluoromethane
Concen: 49.267 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT

Tgt Ion:113 Resp: 91913

Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.3	124.9
192	18.7	13.5	20.3

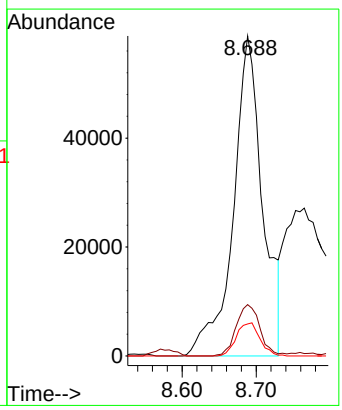


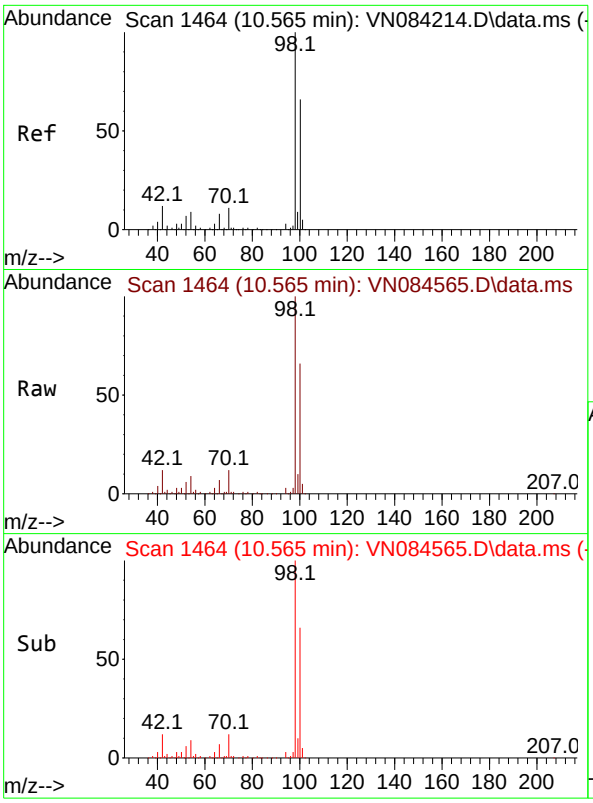


#43
Isopropyl Acetate
Concen: 29.566 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Tgt Ion: 43 Resp: 161001

Ion	Ratio	Lower	Upper
43	100		
61	13.1	20.4	30.6#
87	8.3	10.3	15.5#



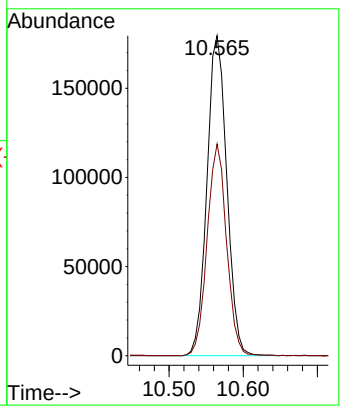


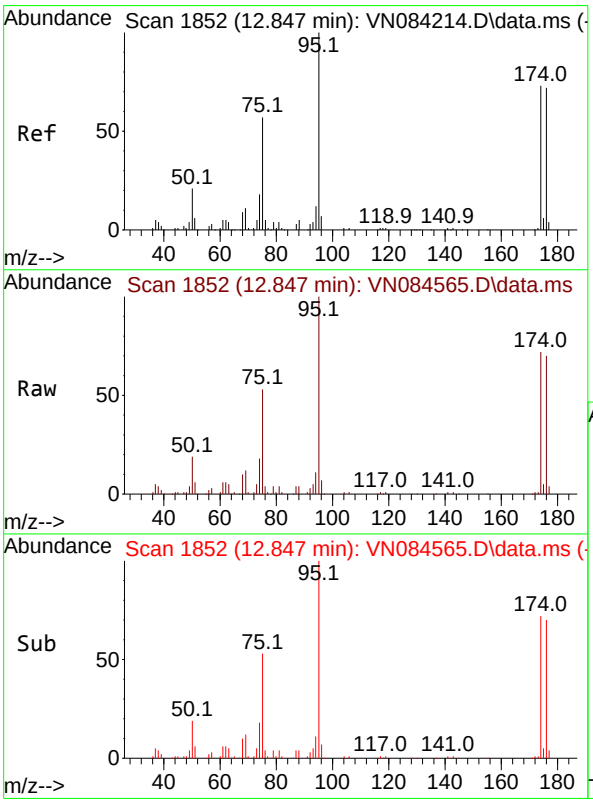
#50
Toluene-d8
Concen: 48.589 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT

Tgt Ion: 98 Resp: 333504

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.7	79.1

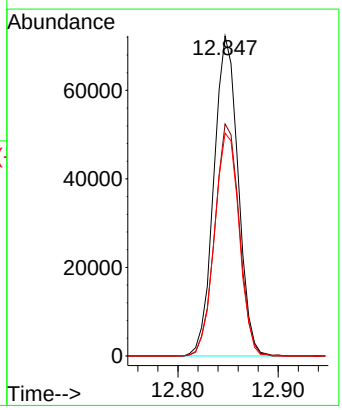


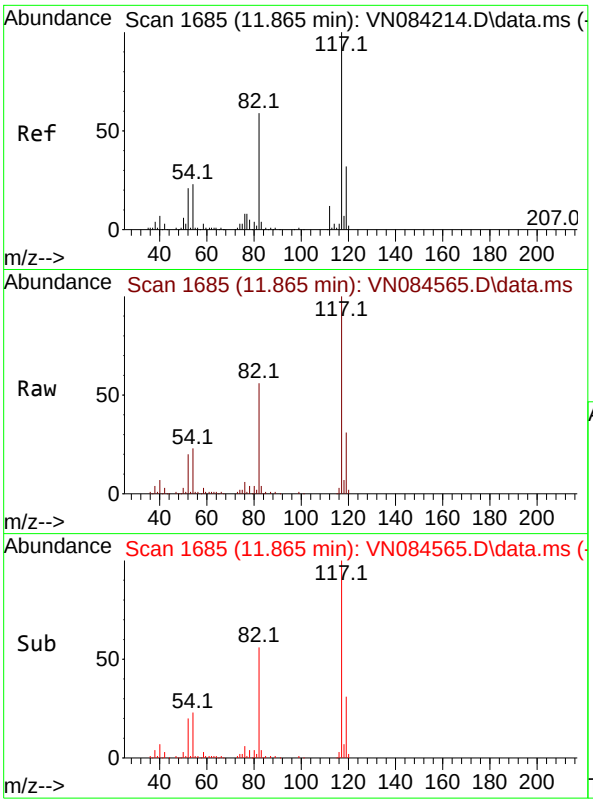


#62
4-Bromofluorobenzene
Concen: 48.438 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Tgt Ion: 95 Resp: 121123

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	145.2
176	71.0	0.0	140.0



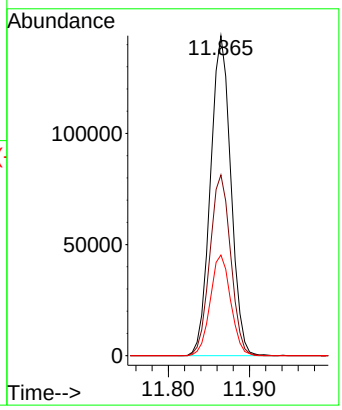


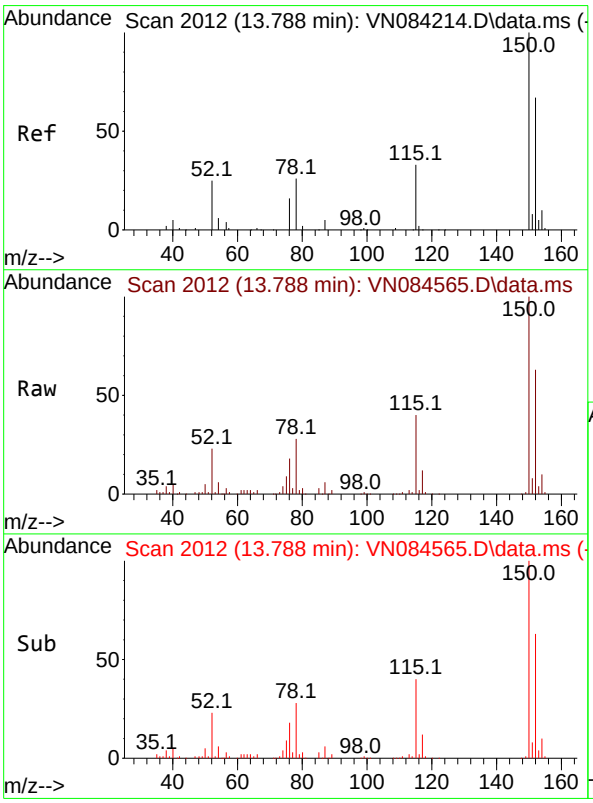
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT

Tgt Ion:117 Resp: 251597

Ion	Ratio	Lower	Upper
117	100		
82	56.5	47.2	70.8
119	31.5	25.4	38.0

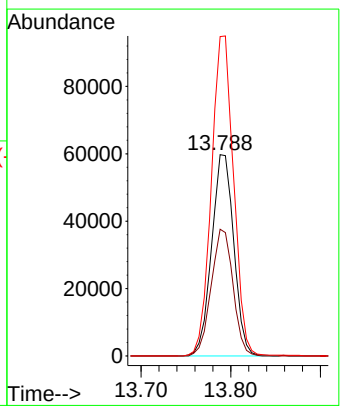




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084565.D
Acq: 29 Oct 2024 15:41

Tgt Ion:152 Resp: 102583

Ion	Ratio	Lower	Upper
152	100		
115	61.8	31.3	93.9
150	159.3	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084566.D
Acq On : 29 Oct 2024 16:05
Operator : JC\MD
Sample : P4578-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 30 05:05:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

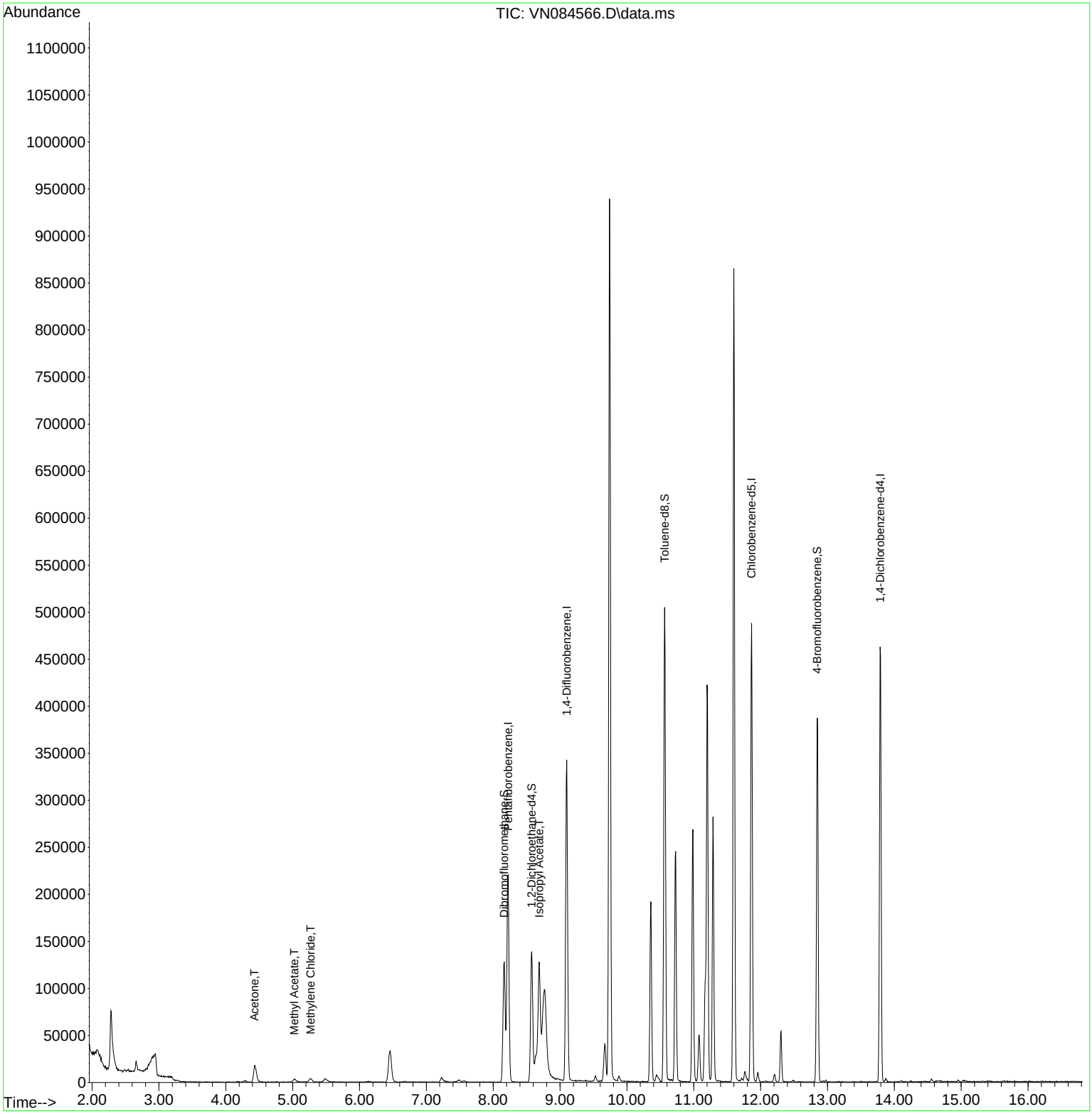
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	154983	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	288756	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	273279	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126082	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	117419	51.098	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.200%			
35) Dibromofluoromethane	8.165	113	93433	49.081	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.160%			
50) Toluene-d8	10.565	98	349472	49.898	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.800%			
62) 4-Bromofluorobenzene	12.847	95	137763	53.992	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.980%			
Target Compounds						Qvalue
16) Acetone	4.430	43	34440	34.889	ug/l	92
18) Methyl Acetate	5.024	43	6955	3.233	ug/l #	83
20) Methylene Chloride	5.271	84	3144	1.567	ug/l #	80
43) Isopropyl Acetate	8.688	43	173767	31.273	ug/l #	79

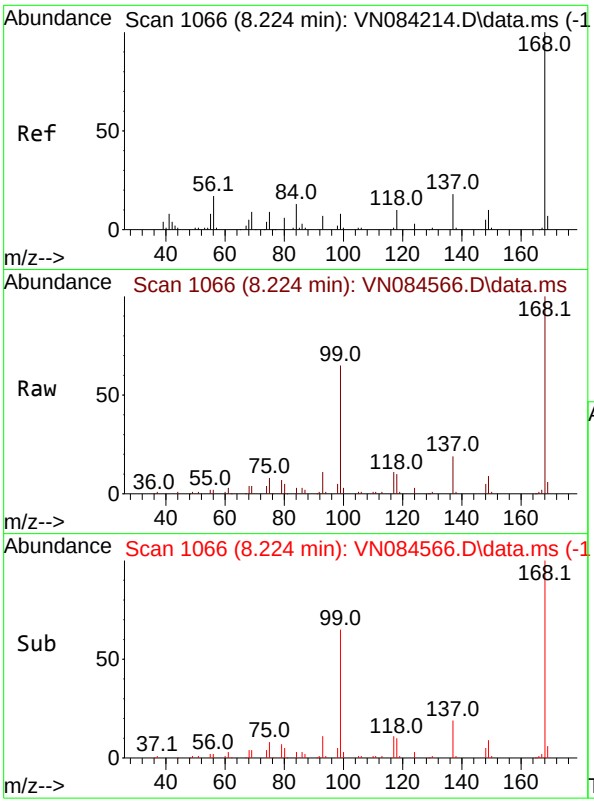
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084566.D
Acq On : 29 Oct 2024 16:05
Operator : JC\MD
Sample : P4578-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 30 05:05:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



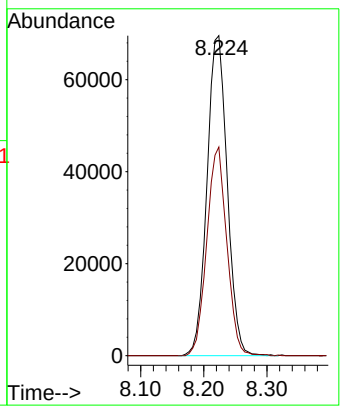


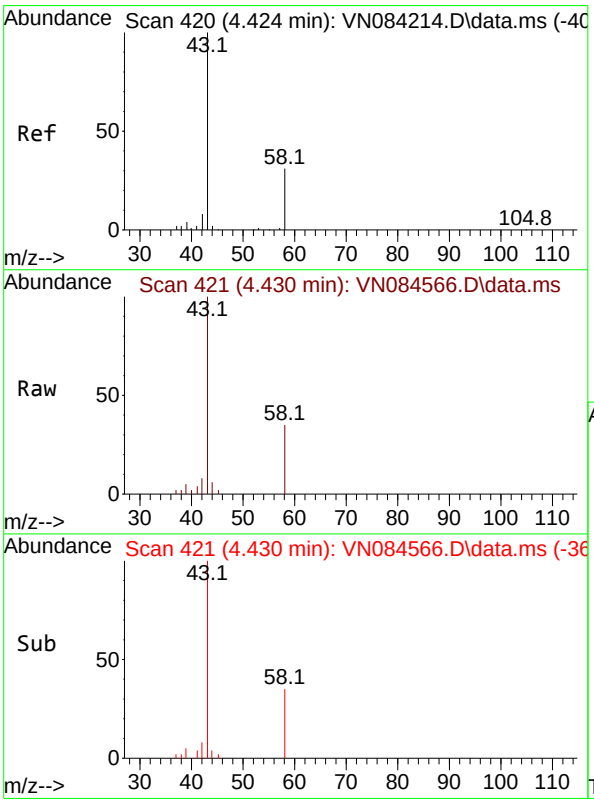
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT-1

Tgt Ion:168 Resp: 154983

Ion	Ratio	Lower	Upper
168	100		
99	65.2	54.2	81.2

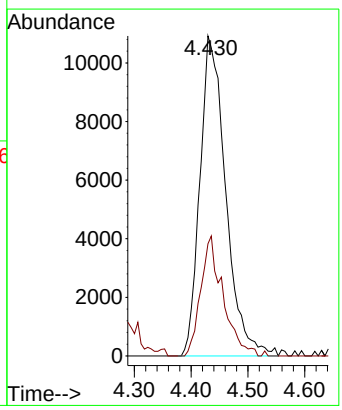


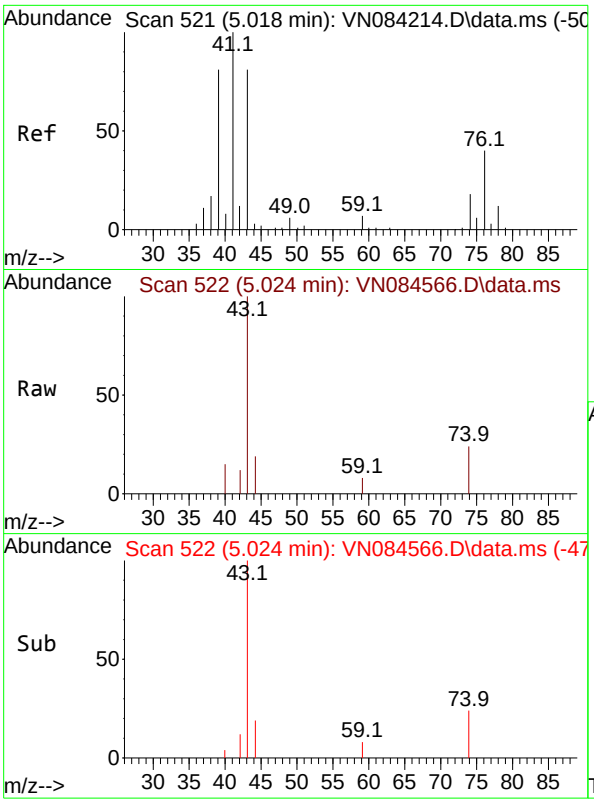


#16
Acetone
Concen: 34.889 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Tgt Ion: 43 Resp: 34440

Ion	Ratio	Lower	Upper
43	100		
58	35.0	24.4	36.6



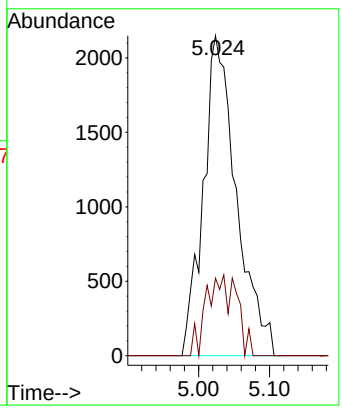


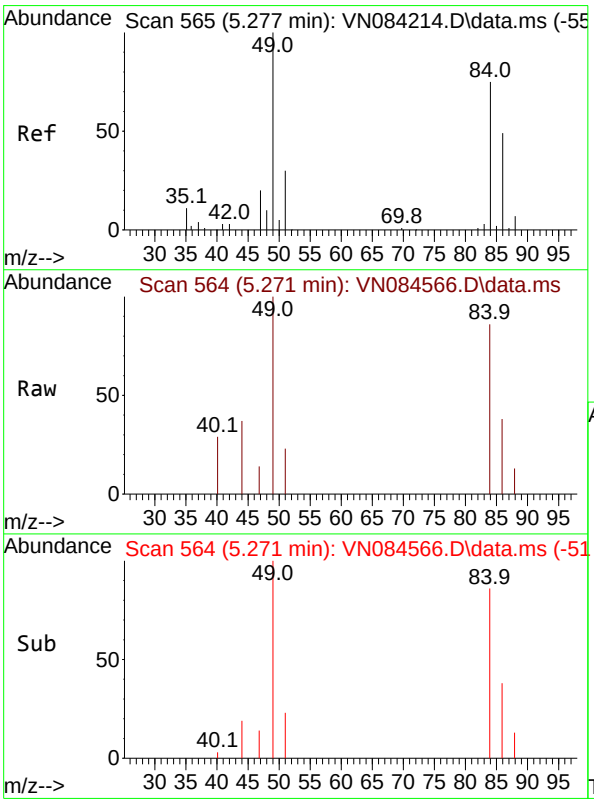
#18
Methyl Acetate
Concen: 3.233 ug/l
RT: 5.024 min Scan# 5
Delta R.T. 0.006 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 43 Resp: 6955

Ion	Ratio	Lower	Upper
43	100		
74	15.8	19.2	28.8#

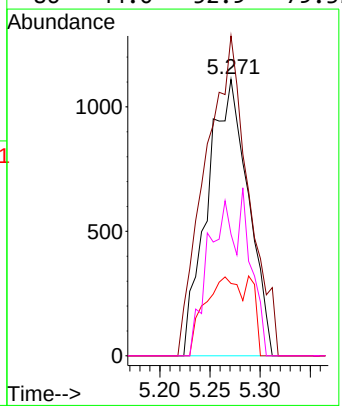


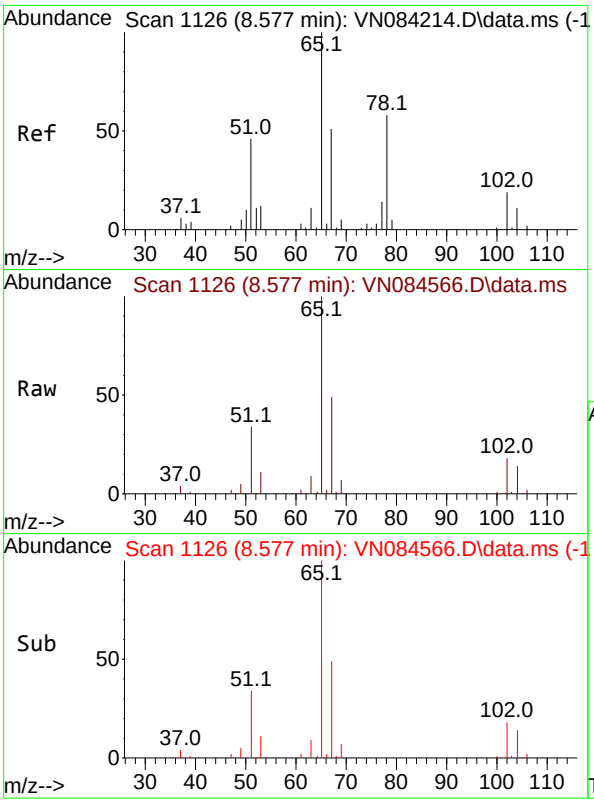


#20
Methylene Chloride
Concen: 1.567 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Tgt Ion: 84 Resp: 3144

Ion	Ratio	Lower	Upper
84	100		
49	115.7	107.2	160.8
51	26.2	31.8	47.8#
86	44.0	52.9	79.3#



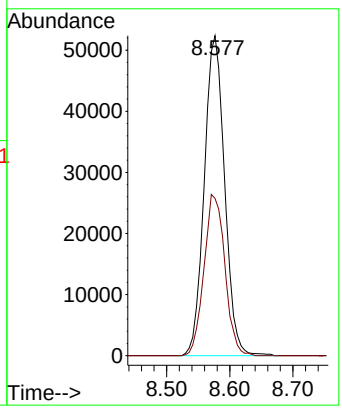


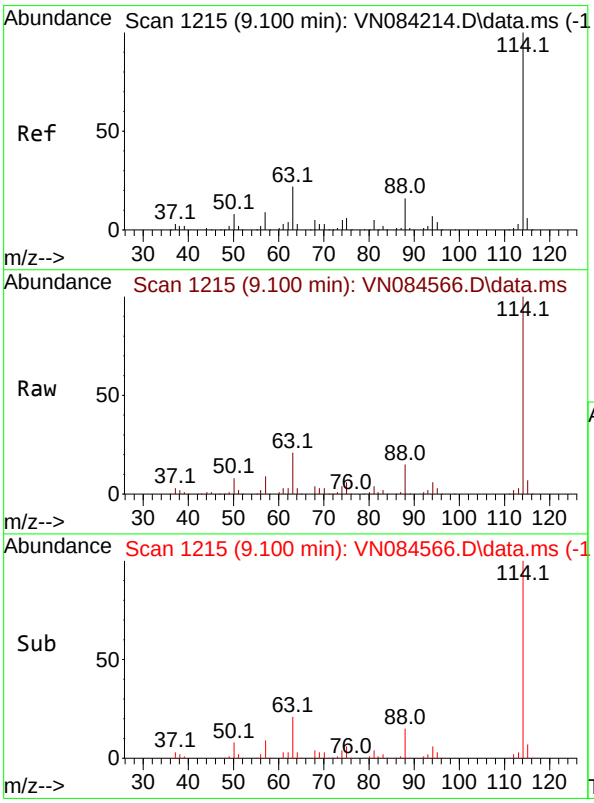
#33
1,2-Dichloroethane-d4
Concen: 51.098 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 65 Resp: 117419

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	102.0

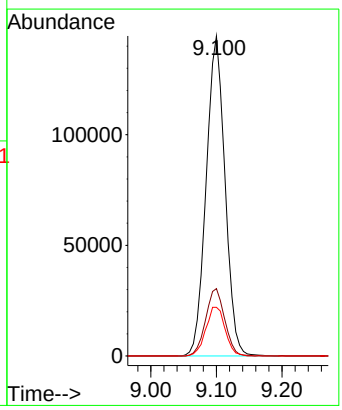


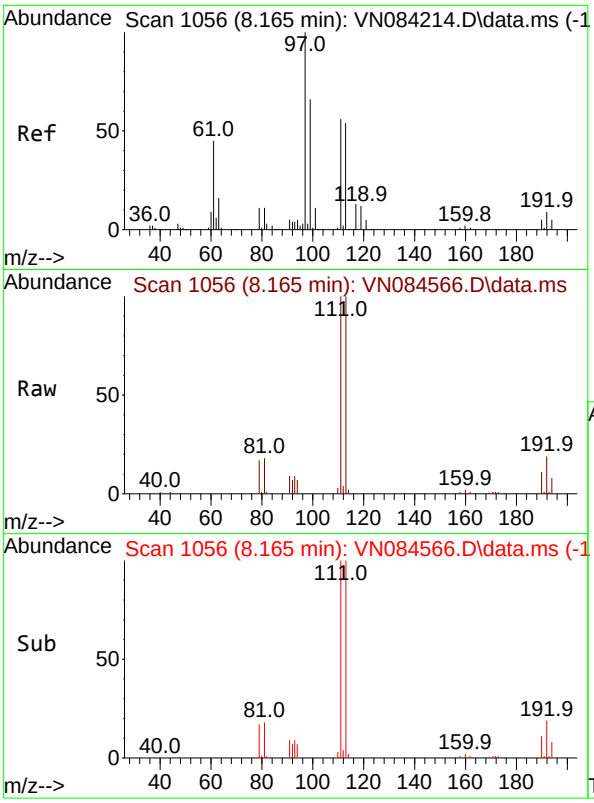


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Tgt Ion:114 Resp: 288756

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.8
88	15.2	0.0	31.6



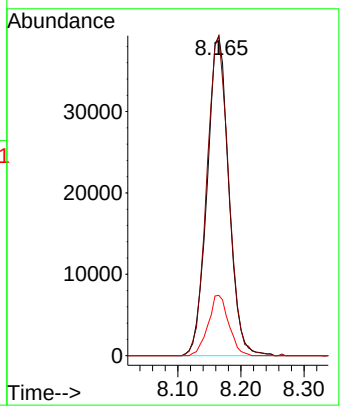


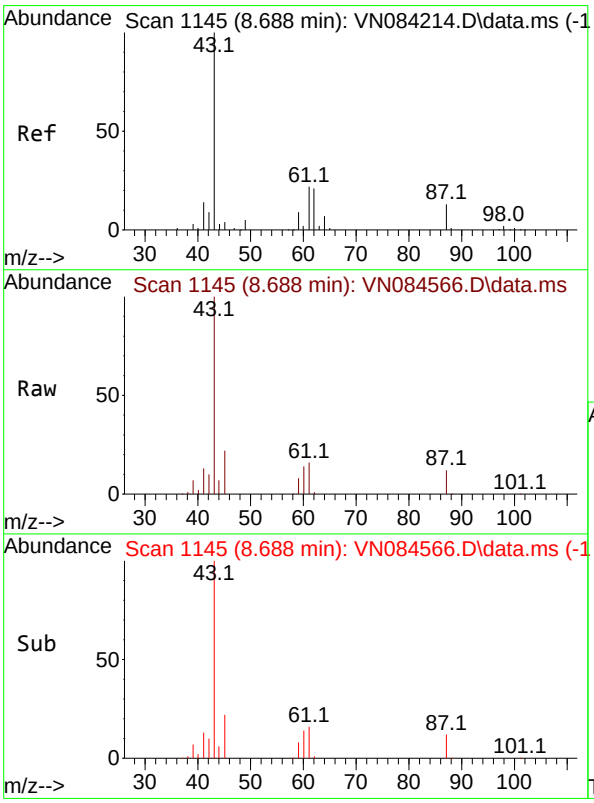
#35
Dibromofluoromethane
Concen: 49.081 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT-1

Tgt Ion:113 Resp: 93433

Ion	Ratio	Lower	Upper
113	100		
111	101.3	83.3	124.9
192	18.0	13.5	20.3

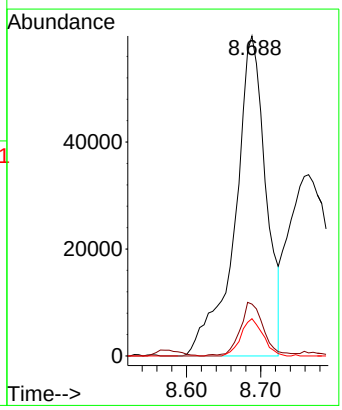


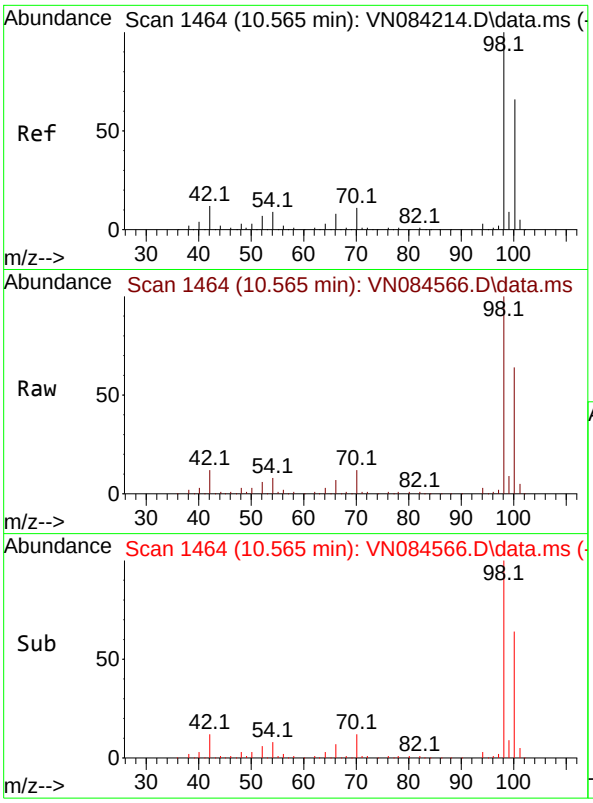


#43
Isopropyl Acetate
Concen: 31.273 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Tgt Ion: 43 Resp: 173767

Ion	Ratio	Lower	Upper
43	100		
61	12.6	20.4	30.6#
87	8.3	10.3	15.5#



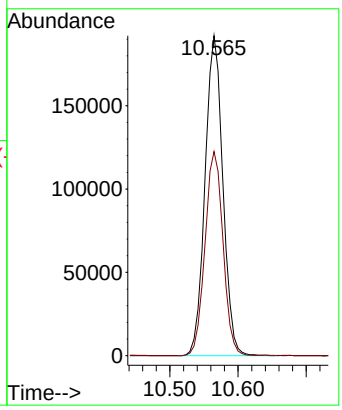


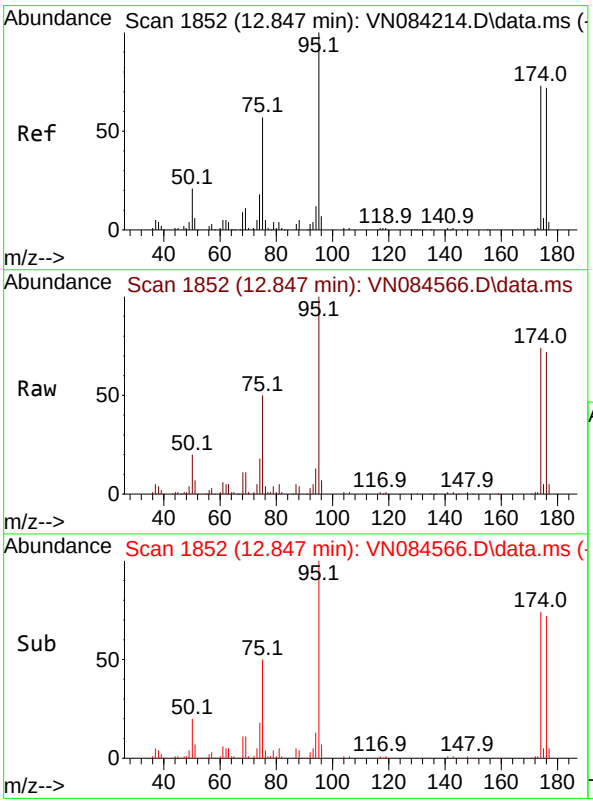
#50
Toluene-d8
Concen: 49.898 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 98 Resp: 349472

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.7	79.1

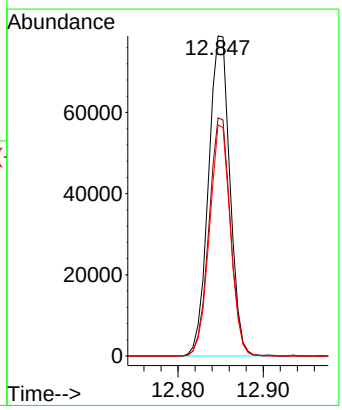


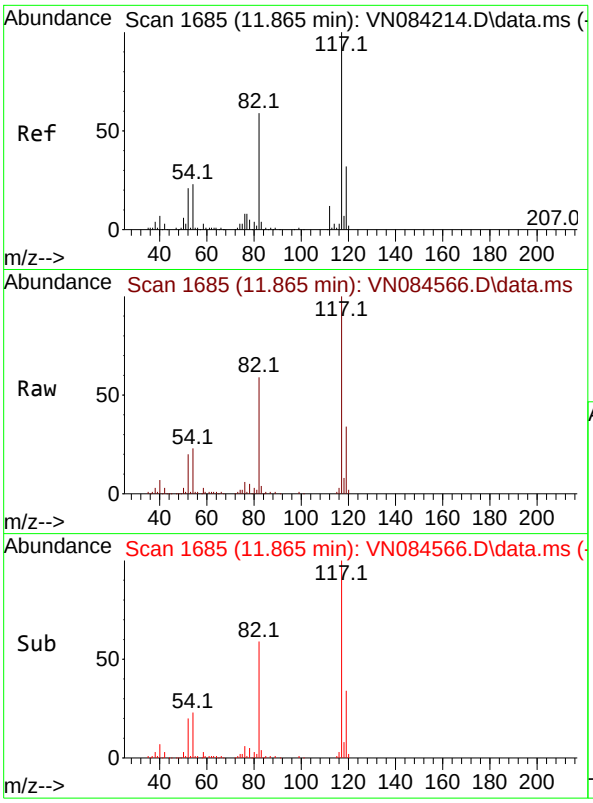


#62
4-Bromofluorobenzene
Concen: 53.992 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Tgt Ion: 95 Resp: 137763

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	145.2
176	70.3	0.0	140.0



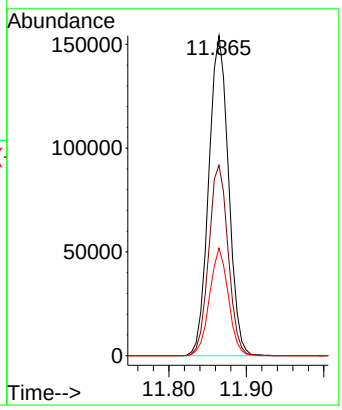


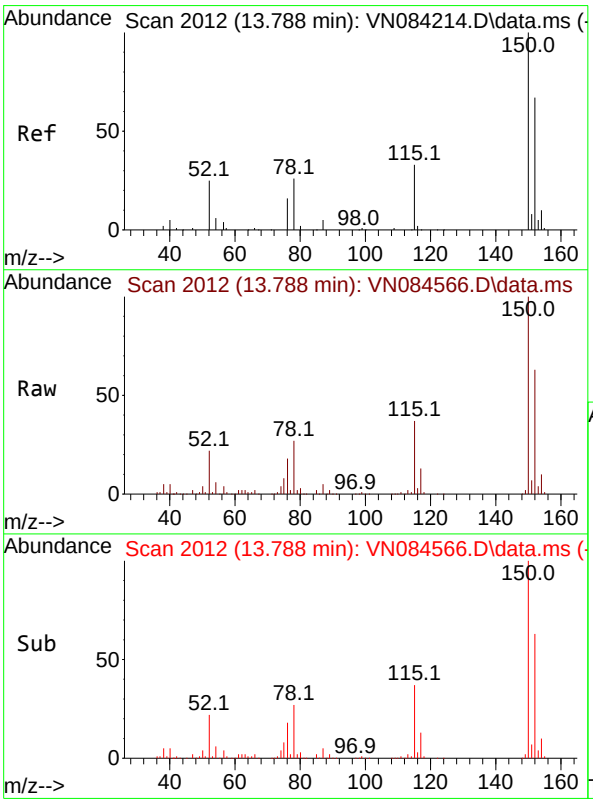
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :
WB-305-BOT-1

Tgt Ion:117 Resp: 273279

Ion	Ratio	Lower	Upper
117	100		
82	59.5	47.2	70.8
119	33.6	25.4	38.0

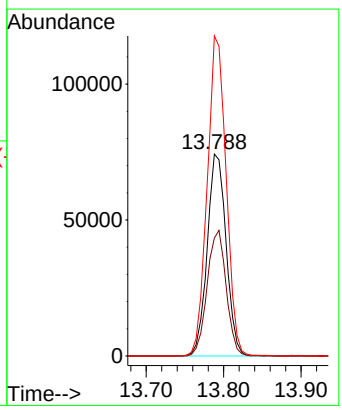




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084566.D
Acq: 29 Oct 2024 16:05

Tgt Ion:152 Resp: 126082

Ion	Ratio	Lower	Upper
152	100		
115	62.5	31.3	93.9
150	158.4	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084554.D
Acq On : 29 Oct 2024 10:59
Operator : JC\MD
Sample : VN1029WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

Quant Time: Oct 30 04:58:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

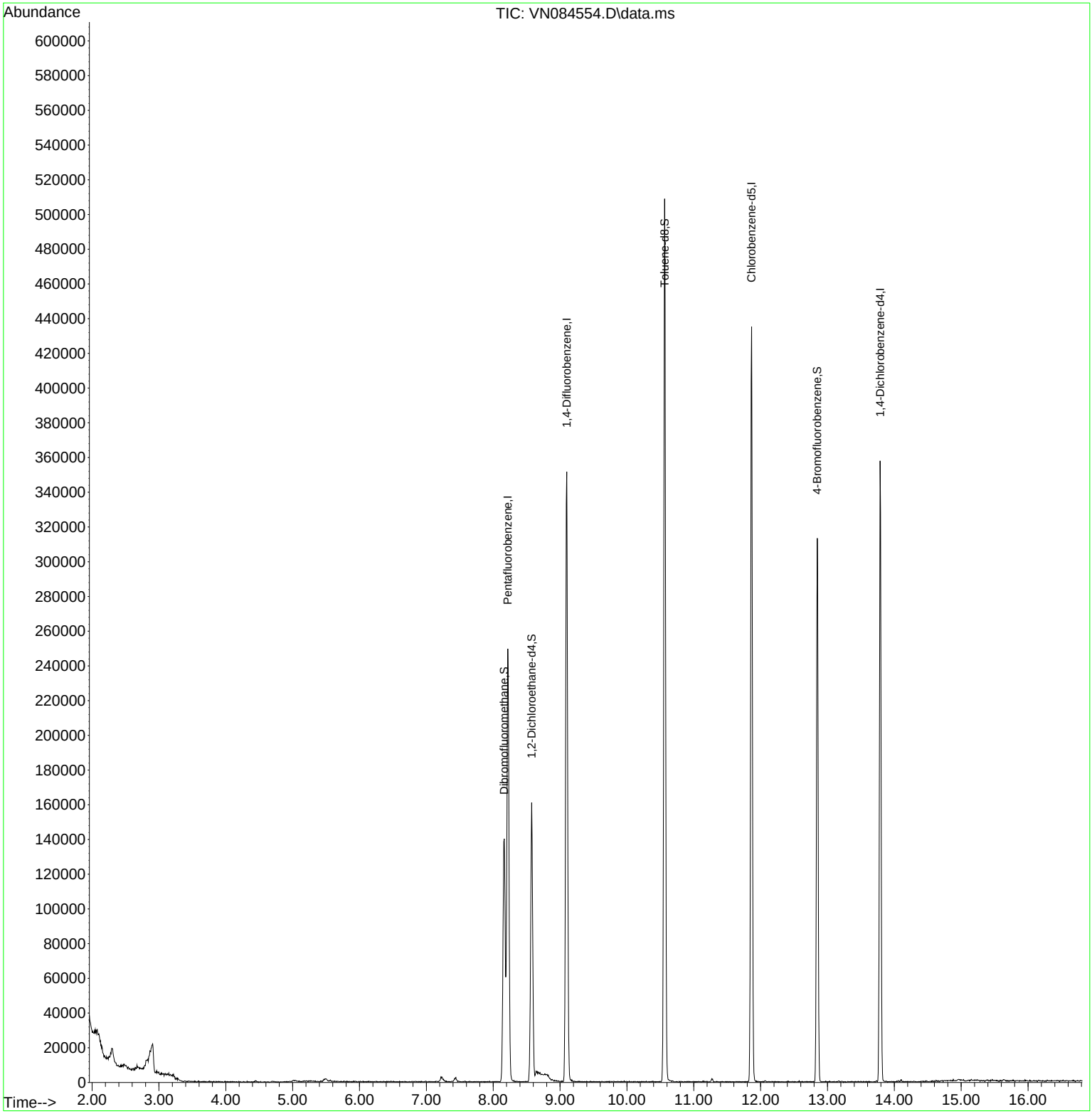
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	172818	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	299281	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	246662	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	92882	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	126644	49.425	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.840%			
35) Dibromofluoromethane	8.165	113	101624	51.506	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.020%			
50) Toluene-d8	10.565	98	346812	47.776	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.560%			
62) 4-Bromofluorobenzene	12.847	95	112106	42.391	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 84.780%			
Target Compounds						Qvalue

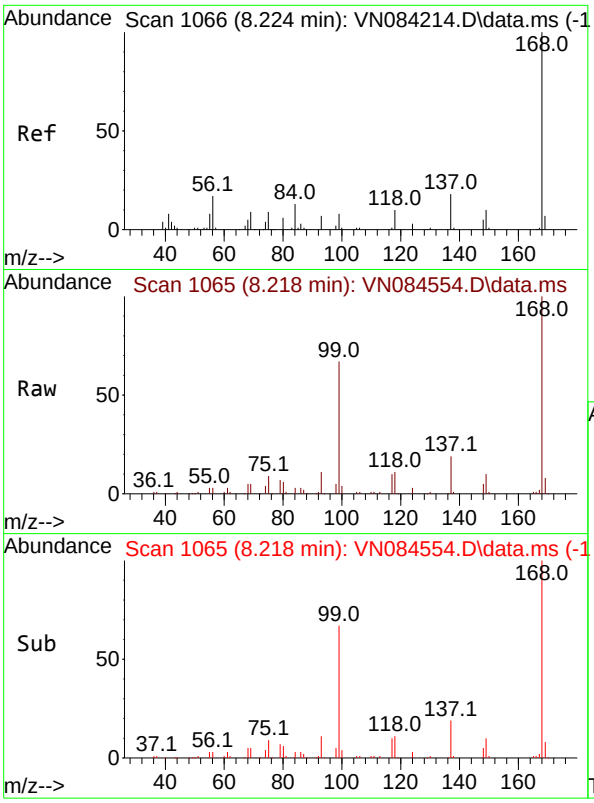
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084554.D
Acq On : 29 Oct 2024 10:59
Operator : JC\MD
Sample : VN1029WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

Quant Time: Oct 30 04:58:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



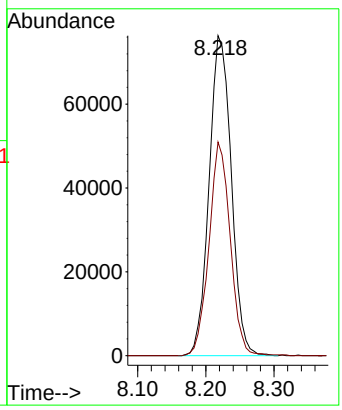


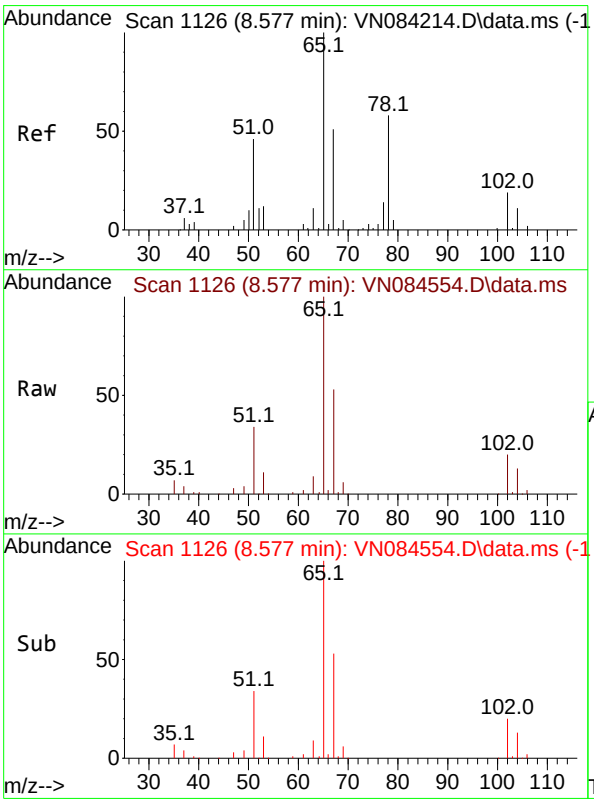
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN084554.D
Acq: 29 Oct 2024 10:59

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

Tgt Ion:168 Resp: 172818

Ion	Ratio	Lower	Upper
168	100		
99	66.7	54.2	81.2

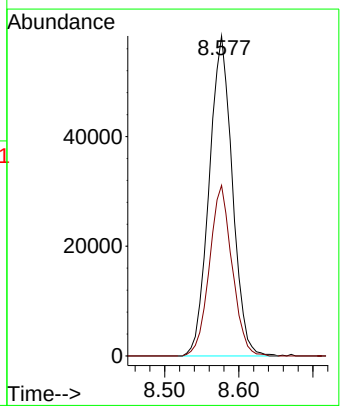


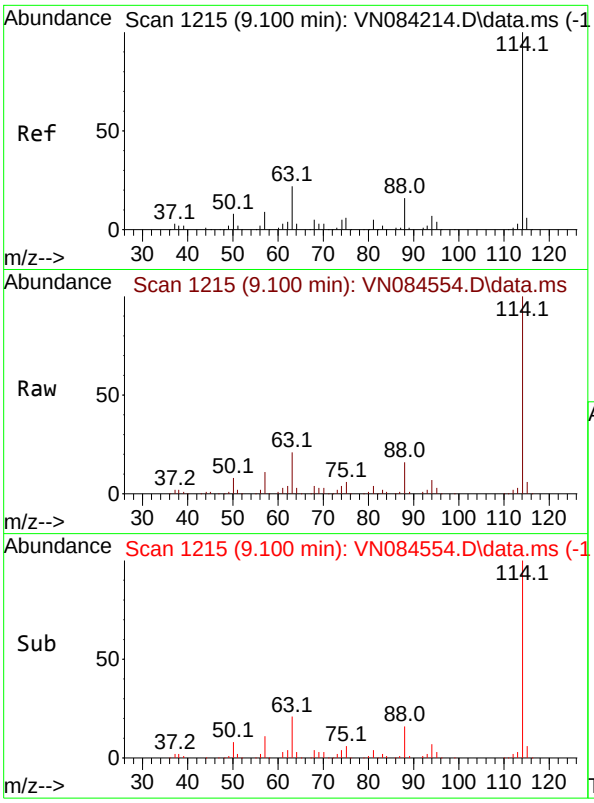


#33
1,2-Dichloroethane-d4
Concen: 49.425 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084554.D
Acq: 29 Oct 2024 10:59

Tgt Ion: 65 Resp: 126644

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	102.0



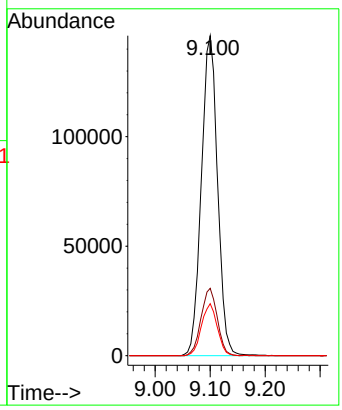


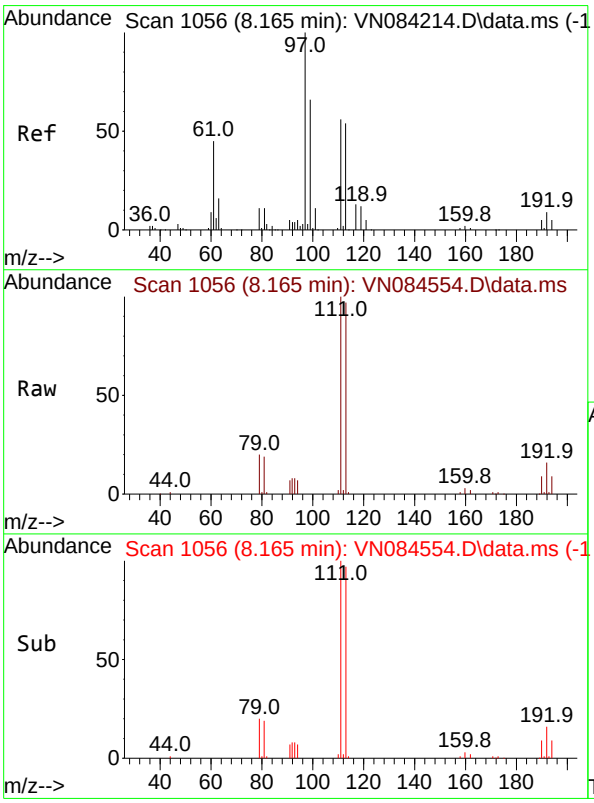
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084554.D
Acq: 29 Oct 2024 10:59

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

Tgt Ion:114 Resp: 299281

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.8
88	16.2	0.0	31.6

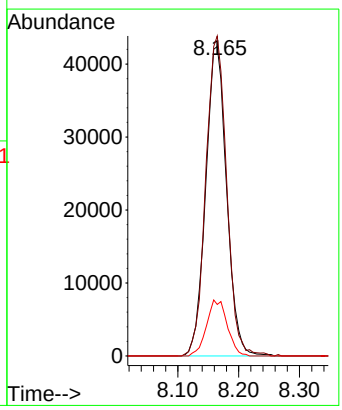


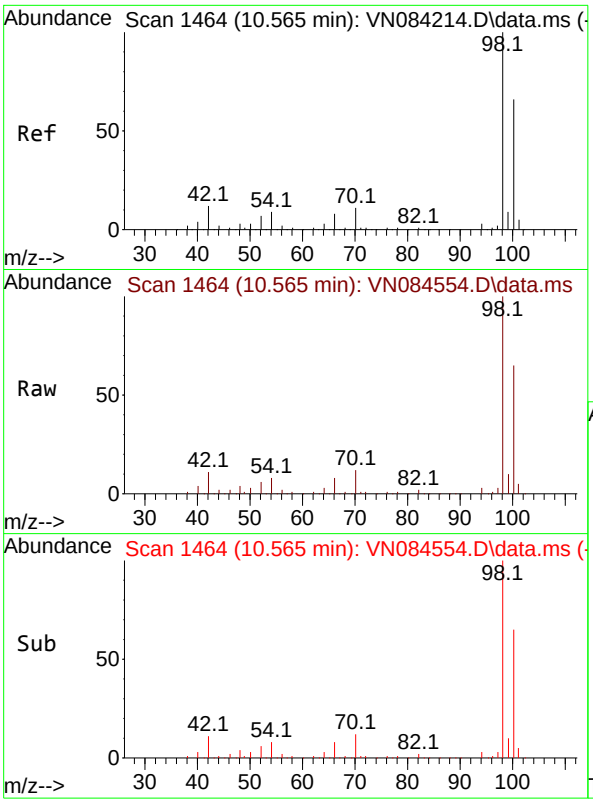


#35
Dibromofluoromethane
Concen: 51.506 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN084554.D
Acq: 29 Oct 2024 10:59

Tgt Ion:113 Resp: 101624

Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.3	124.9
192	17.8	13.5	20.3



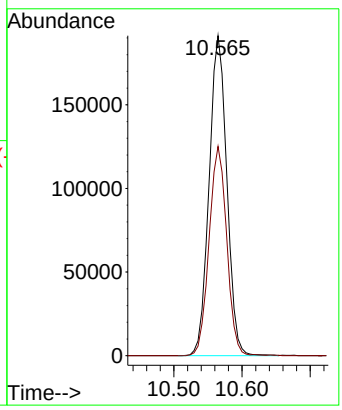


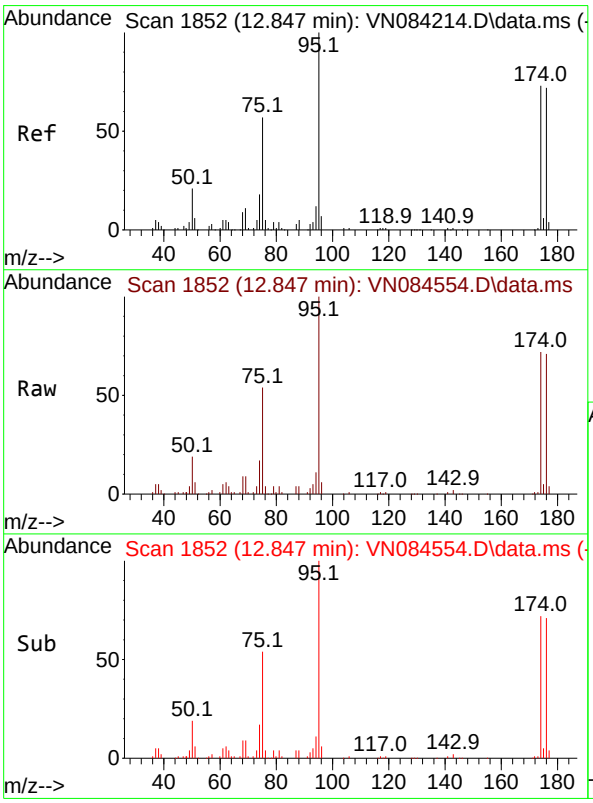
#50
Toluene-d8
Concen: 47.776 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084554.D
Acq: 29 Oct 2024 10:59

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

Tgt Ion: 98 Resp: 346812

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.7	79.1

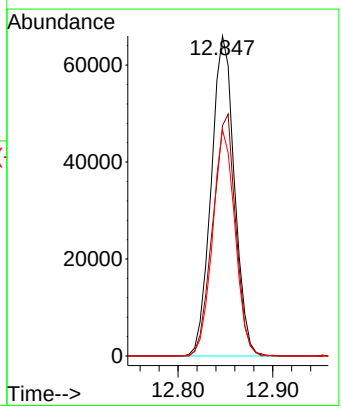


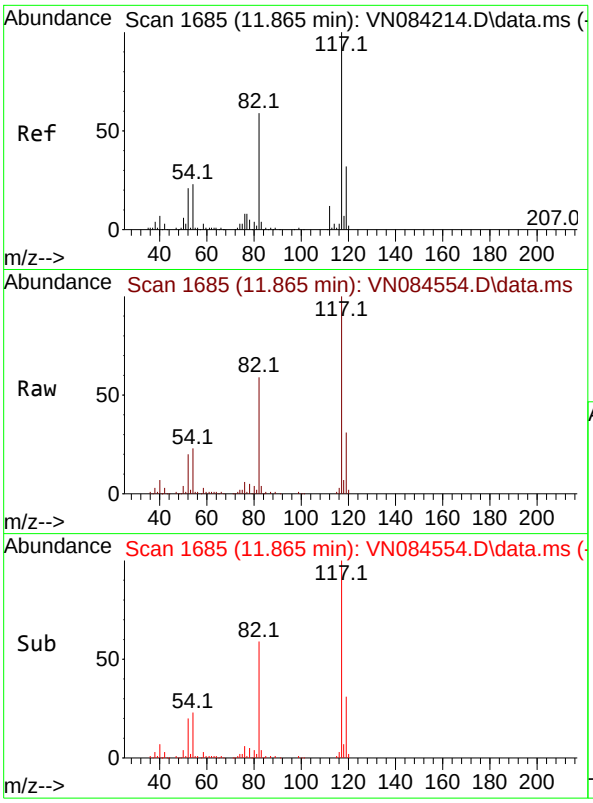


#62
4-Bromofluorobenzene
Concen: 42.391 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084554.D
Acq: 29 Oct 2024 10:59

Tgt Ion: 95 Resp: 112106

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	145.2
176	68.5	0.0	140.0



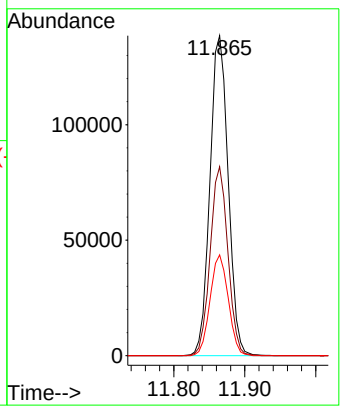


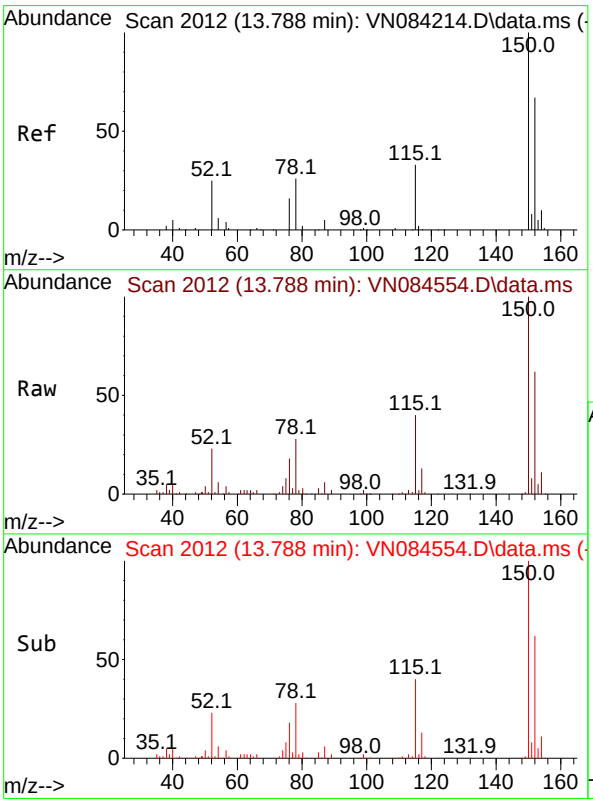
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084554.D
Acq: 29 Oct 2024 10:59

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

Tgt Ion:117 Resp: 246662

Ion	Ratio	Lower	Upper
117	100		
82	59.0	47.2	70.8
119	31.5	25.4	38.0

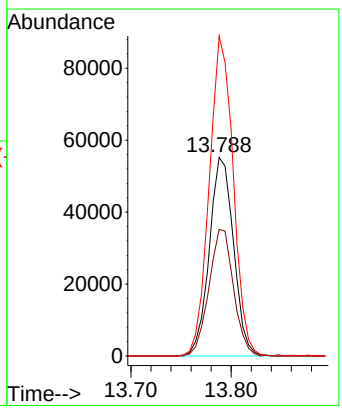




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084554.D
Acq: 29 Oct 2024 10:59

Tgt Ion:152 Resp: 92882

Ion	Ratio	Lower	Upper
152	100		
115	64.7	31.3	93.9
150	158.8	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084555.D
Acq On : 29 Oct 2024 11:41
Operator : JC\MD
Sample : VN1029WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 04:58:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	153415	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	256992	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	228427	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	115296	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	110397	48.533	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.060%			
35) Dibromofluoromethane	8.159	113	89563	52.863	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.720%			
50) Toluene-d8	10.565	98	317982	51.013	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.020%			
62) 4-Bromofluorobenzene	12.847	95	115852	51.017	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	34858	19.209	ug/l	87
3) Chloromethane	2.360	50	38900	18.774	ug/l	95
4) Vinyl Chloride	2.512	62	38891	19.377	ug/l	100
5) Bromomethane	2.912	94	23509	17.758	ug/l	97
6) Chloroethane	3.095	64	26961	18.757	ug/l #	84
7) Trichlorofluoromethane	3.483	101	66930	21.415	ug/l	99
8) Diethyl Ether	3.954	74	23545	20.312	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	39858	22.257	ug/l	99
10) Methyl Iodide	4.577	142	46030	19.959	ug/l	98
11) Tert butyl alcohol	5.530	59	32221	85.906	ug/l	99
12) 1,1-Dichloroethene	4.330	96	35924	20.797	ug/l	99
13) Acrolein	4.177	56	38489	89.387	ug/l	98
14) Allyl chloride	5.018	41	60654	20.219	ug/l	92
15) Acrylonitrile	5.718	53	98995	104.517	ug/l	99
16) Acetone	4.430	43	100158	102.500	ug/l	97
17) Carbon Disulfide	4.706	76	95292	17.424	ug/l	97
18) Methyl Acetate	5.024	43	55468	26.044	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	123913	21.254	ug/l	97
20) Methylene Chloride	5.271	84	43147	21.722	ug/l	86
21) trans-1,2-Dichloroethene	5.783	96	38075	21.039	ug/l	92
22) Diisopropyl ether	6.665	45	134675	21.704	ug/l	98
23) Vinyl Acetate	6.600	43	468888	101.880	ug/l	99
24) 1,1-Dichloroethane	6.559	63	75720	21.821	ug/l	99
25) 2-Butanone	7.477	43	138531	104.089	ug/l	96
26) 2,2-Dichloropropane	7.483	77	66978	21.407	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	45204	20.671	ug/l	98
28) Bromochloromethane	7.806	49	27889	18.013	ug/l	97
29) Tetrahydrofuran	7.841	42	84384	102.743	ug/l	97
30) Chloroform	7.965	83	79543	22.067	ug/l	99
31) Cyclohexane	8.259	56	63846	18.950	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	70788	21.867	ug/l	98
36) 1,1-Dichloropropene	8.371	75	52114	21.176	ug/l	98
37) Ethyl Acetate	7.559	43	55756	22.084	ug/l	99
38) Carbon Tetrachloride	8.359	117	60698	22.485	ug/l	98
39) Methylcyclohexane	9.600	83	54605	19.936	ug/l	99
40) Benzene	8.606	78	172563	22.506	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084555.D
Acq On : 29 Oct 2024 11:41
Operator : JC\MD
Sample : VN1029WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 04:58:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	29345	21.410	ug/l		97
42) 1,2-Dichloroethane	8.671	62	59036	22.711	ug/l		99
43) Isopropyl Acetate	8.683	43	99568	20.134	ug/l		98
44) Trichloroethene	9.353	130	39389	21.995	ug/l		96
45) 1,2-Dichloropropane	9.618	63	43122	23.774	ug/l		100
46) Dibromomethane	9.706	93	29466	24.073	ug/l		96
47) Bromodichloromethane	9.888	83	64055	23.554	ug/l		95
48) Methyl methacrylate	9.683	41	42040	21.356	ug/l		98
49) 1,4-Dioxane	9.694	88	15671	432.407	ug/l	#	78
51) 4-Methyl-2-Pentanone	10.441	43	268998	111.922	ug/l		99
52) Toluene	10.630	92	105803	22.628	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	60477	21.816	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	66645	22.351	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	41300	24.639	ug/l		95
56) Ethyl methacrylate	10.871	69	58546	21.227	ug/l		96
57) 1,3-Dichloropropane	11.159	76	68887	23.000	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	117220	91.617	ug/l		98
59) 2-Hexanone	11.194	43	201290	112.054	ug/l		100
60) Dibromochloromethane	11.359	129	46128	23.292	ug/l		96
61) 1,2-Dibromoethane	11.465	107	39526	22.694	ug/l		99
64) Tetrachloroethene	11.100	164	35493	22.308	ug/l		98
65) Chlorobenzene	11.888	112	110265	21.771	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	40200	23.044	ug/l		98
67) Ethyl Benzene	11.965	91	188113	21.002	ug/l		98
68) m/p-Xylenes	12.071	106	147602	44.549	ug/l		97
69) o-Xylene	12.400	106	70229	22.404	ug/l		97
70) Styrene	12.412	104	118728	22.361	ug/l		99
71) Bromoform	12.576	173	31510	24.534	ug/l	#	98
73) Isopropylbenzene	12.694	105	177562	20.182	ug/l		99
74) N-amyl acetate	12.494	43	74540	18.709	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	59105	22.341	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	54226m	23.038	ug/l		
77) Bromobenzene	12.976	156	44739	21.081	ug/l		96
78) n-propylbenzene	13.035	91	207792	20.385	ug/l		99
79) 2-Chlorotoluene	13.124	91	131275	20.182	ug/l		98
80) 1,3,5-Trimethylbenzene	13.171	105	151390	21.094	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.735	75	19064	19.418	ug/l		95
82) 4-Chlorotoluene	13.218	91	133461	20.382	ug/l		99
83) tert-Butylbenzene	13.435	119	124415	19.505	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	156834	21.693	ug/l		97
85) sec-Butylbenzene	13.612	105	175303	20.595	ug/l		100
86) p-Isopropyltoluene	13.729	119	144465	20.525	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	85390	21.448	ug/l		97
88) 1,4-Dichlorobenzene	13.812	146	84196	20.942	ug/l		99
89) n-Butylbenzene	14.053	91	118343	18.542	ug/l		97
90) Hexachloroethane	14.329	117	28333	19.831	ug/l		100
91) 1,2-Dichlorobenzene	14.100	146	81885	20.976	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.718	75	11735	21.495	ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	39496	20.540	ug/l		99
94) Hexachlorobutadiene	15.494	225	18741	19.544	ug/l		97
95) Naphthalene	15.641	128	113914	17.870	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	39635	20.592	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084555.D
Acq On : 29 Oct 2024 11:41
Operator : JC\MD
Sample : VN1029WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 04:58:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

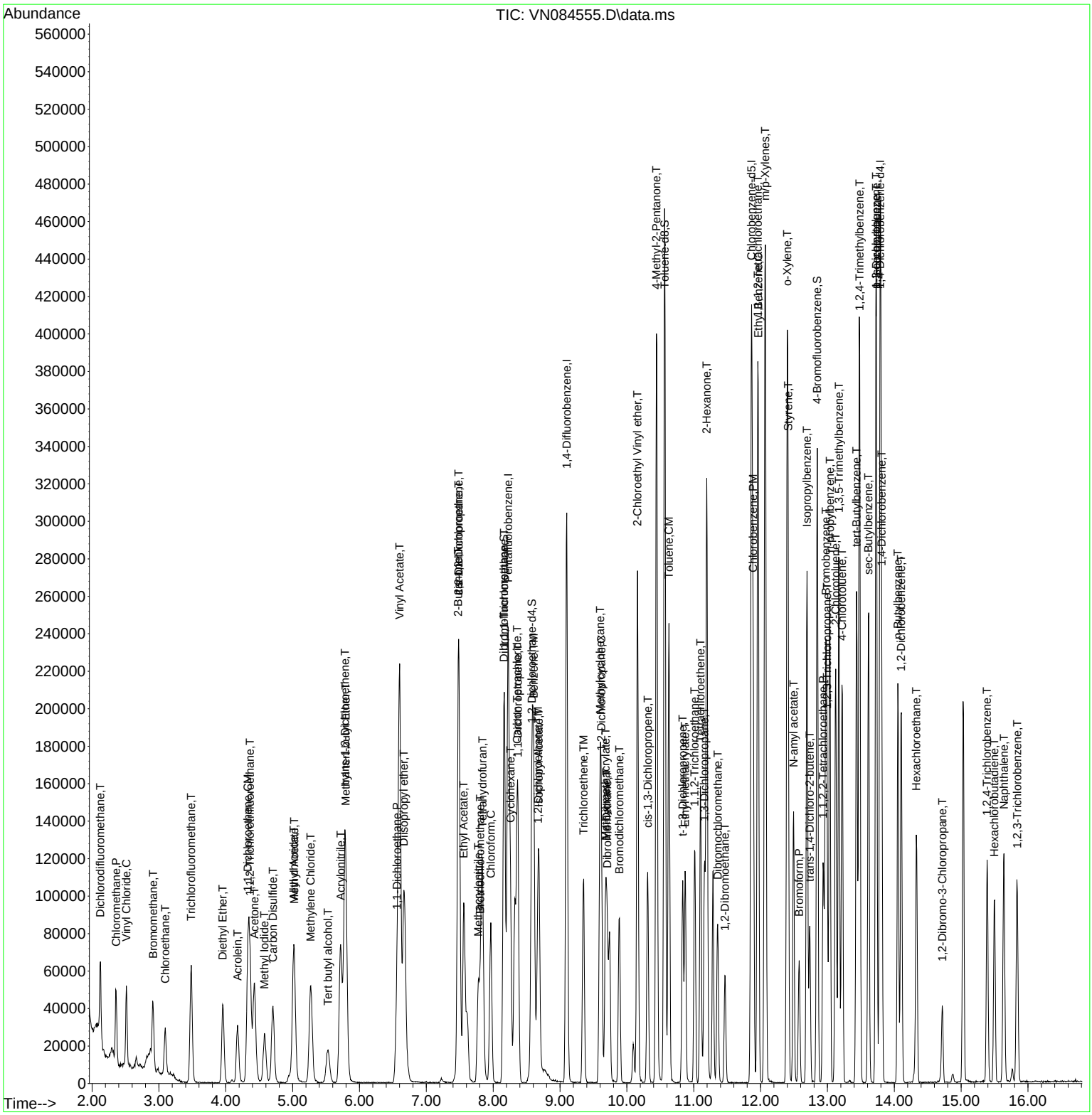
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084555.D
Acq On : 29 Oct 2024 11:41
Operator : JC\MD
Sample : VN1029WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 04:58:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084556.D
Acq On : 29 Oct 2024 12:05
Operator : JC\MD
Sample : VN1029WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 04:59:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBSD01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	147044	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	252203	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	221290	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	110005	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	109169	50.073	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.140%			
35) Dibromofluoromethane	8.165	113	89225	53.663	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.320%			
50) Toluene-d8	10.565	98	307058	50.196	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.400%			
62) 4-Bromofluorobenzene	12.847	95	114232	51.259	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	33356	19.178	ug/l	92
3) Chloromethane	2.359	50	39785	20.033	ug/l	97
4) Vinyl Chloride	2.512	62	39686	20.630	ug/l	92
5) Bromomethane	2.906	94	19238	15.161	ug/l	95
6) Chloroethane	3.077	64	25498	18.507	ug/l	90
7) Trichlorofluoromethane	3.471	101	66494	22.197	ug/l	100
8) Diethyl Ether	3.959	74	23580	21.224	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	38177	22.242	ug/l	100
10) Methyl Iodide	4.577	142	47483	21.481	ug/l	92
11) Tert butyl alcohol	5.530	59	37279	103.698	ug/l	98
12) 1,1-Dichloroethene	4.330	96	35653	21.535	ug/l	96
13) Acrolein	4.171	56	41407	100.330	ug/l	100
14) Allyl chloride	5.018	41	62354	21.686	ug/l	91
15) Acrylonitrile	5.712	53	104111	114.681	ug/l	99
16) Acetone	4.430	43	105220	112.346	ug/l	94
17) Carbon Disulfide	4.700	76	93326	17.804	ug/l	98
18) Methyl Acetate	5.018	43	58826	28.818	ug/l	98
19) Methyl tert-butyl Ether	5.800	73	125473	22.454	ug/l	99
20) Methylene Chloride	5.271	84	43060	22.617	ug/l	94
21) trans-1,2-Dichloroethene	5.777	96	37184	21.437	ug/l	92
22) Diisopropyl ether	6.671	45	135277	22.745	ug/l	95
23) Vinyl Acetate	6.600	43	472513	107.116	ug/l	100
24) 1,1-Dichloroethane	6.559	63	74230	22.318	ug/l	99
25) 2-Butanone	7.483	43	142455	111.675	ug/l	98
26) 2,2-Dichloropropane	7.489	77	66554	22.193	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	46706	22.283	ug/l	99
28) Bromochloromethane	7.812	49	26645	17.955	ug/l	96
29) Tetrahydrofuran	7.841	42	87845	111.591	ug/l	98
30) Chloroform	7.965	83	79055	22.882	ug/l	98
31) Cyclohexane	8.253	56	61646	19.089	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	69376	22.359	ug/l	98
36) 1,1-Dichloropropene	8.365	75	51147	21.178	ug/l	99
37) Ethyl Acetate	7.559	43	56147	22.661	ug/l	99
38) Carbon Tetrachloride	8.359	117	59041	22.286	ug/l	100
39) Methylcyclohexane	9.600	83	51788	19.267	ug/l	96
40) Benzene	8.600	78	169338	22.504	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084556.D
Acq On : 29 Oct 2024 12:05
Operator : JC\MD
Sample : VN1029WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 04:59:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	31125	23.139	ug/l		98
42) 1,2-Dichloroethane	8.665	62	57951	22.717	ug/l		100
43) Isopropyl Acetate	8.683	43	99728	20.550	ug/l		99
44) Trichloroethene	9.347	130	38163	21.715	ug/l		100
45) 1,2-Dichloropropane	9.618	63	41333	23.220	ug/l		96
46) Dibromomethane	9.706	93	29560	24.608	ug/l		98
47) Bromodichloromethane	9.888	83	62204	23.308	ug/l		99
48) Methyl methacrylate	9.677	41	41567	21.516	ug/l		99
49) 1,4-Dioxane	9.694	88	16278	457.685	ug/l		93
51) 4-Methyl-2-Pentanone	10.441	43	279884	118.663	ug/l		100
52) Toluene	10.630	92	102582	22.356	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	60238	22.143	ug/l		99
54) cis-1,3-Dichloropropene	10.306	75	65653	22.437	ug/l		98
55) 1,1,2-Trichloroethane	11.018	97	41234	25.067	ug/l		94
56) Ethyl methacrylate	10.871	69	60688	22.421	ug/l		98
57) 1,3-Dichloropropane	11.159	76	67925	23.109	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	119027	94.796	ug/l		99
59) 2-Hexanone	11.194	43	209471	118.823	ug/l		99
60) Dibromochloromethane	11.359	129	47219	24.295	ug/l		96
61) 1,2-Dibromoethane	11.471	107	40815	23.879	ug/l		96
64) Tetrachloroethene	11.100	164	33241	21.567	ug/l		98
65) Chlorobenzene	11.888	112	109243	22.265	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	39433	23.333	ug/l		96
67) Ethyl Benzene	11.965	91	185989	21.435	ug/l		98
68) m/p-Xylenes	12.071	106	145407	45.302	ug/l		99
69) o-Xylene	12.400	106	68624	22.598	ug/l		100
70) Styrene	12.412	104	117830	22.908	ug/l		99
71) Bromoform	12.576	173	30969	24.890	ug/l	#	97
73) Isopropylbenzene	12.694	105	171213	20.396	ug/l		98
74) N-amyl acetate	12.494	43	76551	20.138	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.935	83	60869	24.115	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	49882m	22.211	ug/l		
77) Bromobenzene	12.976	156	44543	21.998	ug/l		96
78) n-propylbenzene	13.035	91	205724	21.152	ug/l		100
79) 2-Chlorotoluene	13.123	91	132330	21.323	ug/l		98
80) 1,3,5-Trimethylbenzene	13.171	105	150119	21.923	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	19765m	21.100	ug/l		
82) 4-Chlorotoluene	13.218	91	134542	21.536	ug/l		100
83) tert-Butylbenzene	13.435	119	128571	21.126	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	152818	22.154	ug/l		99
85) sec-Butylbenzene	13.618	105	173412	21.353	ug/l		99
86) p-Isopropyltoluene	13.729	119	143578	21.380	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	82122	21.619	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	82511	21.510	ug/l		100
89) n-Butylbenzene	14.053	91	115001	18.885	ug/l		99
90) Hexachloroethane	14.329	117	28957	21.243	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	81915	21.993	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11947	22.936	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	37902	20.660	ug/l		98
94) Hexachlorobutadiene	15.500	225	18440	20.155	ug/l		99
95) Naphthalene	15.641	128	116953	19.229	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	38561	20.998	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084556.D
Acq On : 29 Oct 2024 12:05
Operator : JC\MD
Sample : VN1029WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 04:59:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

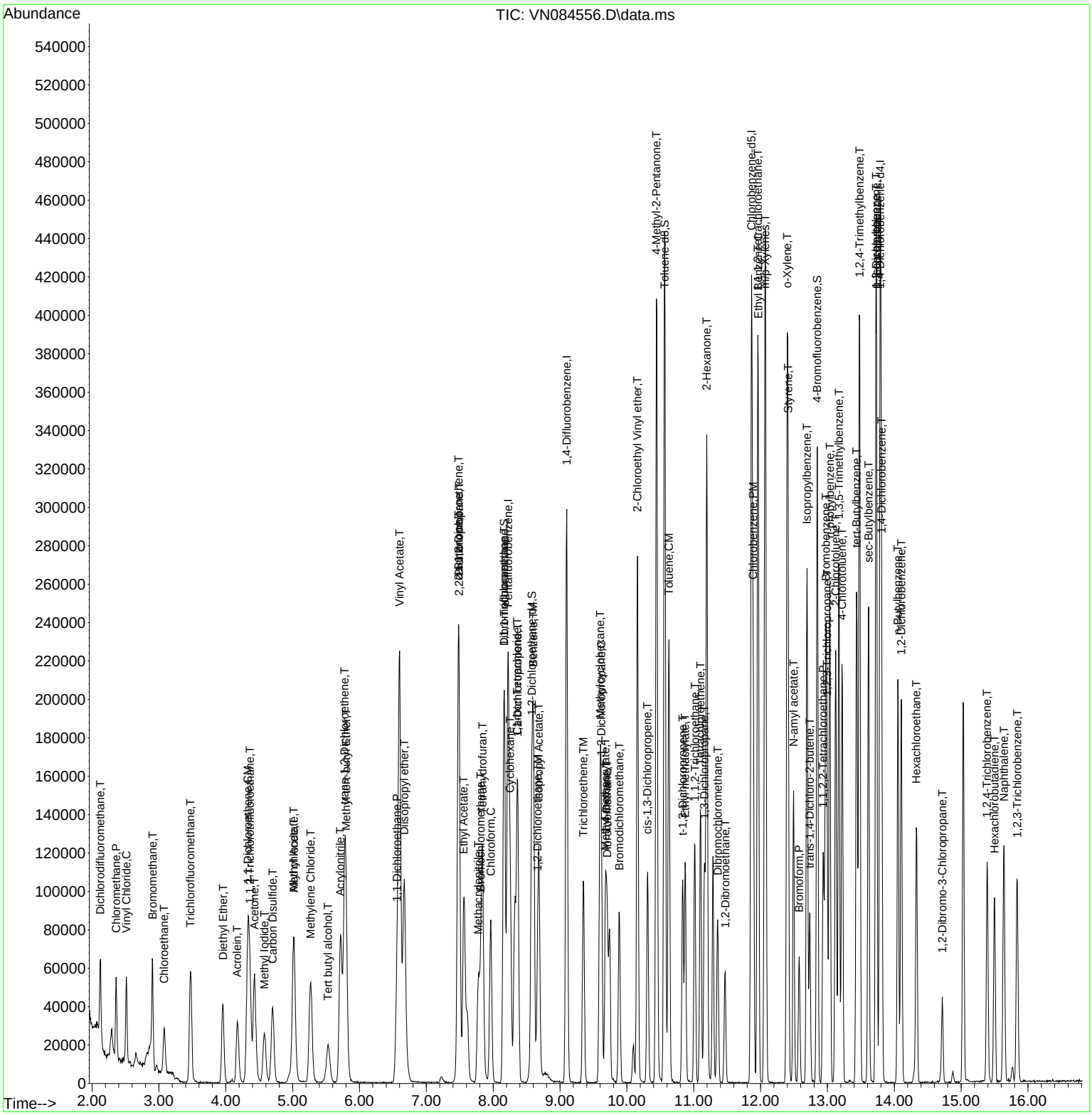
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102924\
Data File : VN084556.D
Acq On : 29 Oct 2024 12:05
Operator : JC\MD
Sample : VN1029WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 04:59:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vn093024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084213.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:48 AM	MMDadoda	10/1/2024 5:34:17 PM	Peak Integrated by Software
VSTDICCC050	VN084214.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:52 AM	MMDadoda	10/1/2024 5:34:19 PM	Peak Integrated by Software
VSTDICC020	VN084215.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:57 AM	MMDadoda	10/1/2024 5:34:21 PM	Peak Integrated by Software
VSTDICC010	VN084216.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:06 AM	MMDadoda	10/1/2024 5:34:22 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,1,2-Trichlorotrifluoroethane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	trans-1,2-Dichloroethene	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Vinyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,4-Dichlorobenzene	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Allyl chloride	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn093024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN084218.D	Vinyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICV050	VN084220.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:01 AM	MMDadoda	10/1/2024 5:34:27 PM	Peak Integrated by Software
VSTDCCC050	VN084229.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:17 AM	MMDadoda	10/1/2024 5:34:32 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN102924	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084552.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:05 AM	MMDadoda	10/30/2024 1:23:02 PM	Peak Integrated by Software
VN1029WBS01	VN084555.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:08 AM	MMDadoda	10/30/2024 1:23:02 PM	Peak Integrated by Software
VN1029WBSD01	VN084556.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:09 AM	MMDadoda	10/30/2024 1:23:04 PM	Peak Integrated by Software
VN1029WBSD01	VN084556.D	trans-1,4-Dichloro-2-butene	SAM	10/30/2024 11:31:09 AM	MMDadoda	10/30/2024 1:23:04 PM	Peak Integrated by Software
VSTDCCC050	VN084568.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:11 AM	MMDadoda	10/30/2024 1:23:05 PM	Peak Integrated by Software
VSTDCCC050	VN084568.D	trans-1,4-Dichloro-2-butene	SAM	10/30/2024 11:31:11 AM	MMDadoda	10/30/2024 1:23:05 PM	Peak Integrated by Software

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084211.D	30 Sep 2024 09:24	JC\MD	Ok
2	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	JC\MD	Not Ok
3	VSTDICC100	VN084213.D	30 Sep 2024 12:25	JC\MD	Ok,M
4	VSTDICCC050	VN084214.D	30 Sep 2024 12:49	JC\MD	Ok,M
5	VSTDICC020	VN084215.D	30 Sep 2024 13:13	JC\MD	Ok,M
6	VSTDICC010	VN084216.D	30 Sep 2024 13:37	JC\MD	Ok,M
7	VSTDICC005	VN084217.D	30 Sep 2024 14:00	JC\MD	Ok,M
8	VSTDICC001	VN084218.D	30 Sep 2024 14:48	JC\MD	Ok,M
9	IBLK	VN084219.D	30 Sep 2024 15:12	JC\MD	Ok
10	VSTDICV050	VN084220.D	30 Sep 2024 15:36	JC\MD	Ok,M
11	VN0930MBL01	VN084221.D	30 Sep 2024 16:11	JC\MD	Ok
12	VN0930WBL01	VN084222.D	30 Sep 2024 16:35	JC\MD	Ok
13	VN0930WBS01	VN084223.D	30 Sep 2024 17:42	JC\MD	Ok,M
14	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06	JC\MD	Ok,M
15	P4116-24	VN084225.D	30 Sep 2024 18:30	JC\MD	Dilution
16	P4116-25	VN084226.D	30 Sep 2024 18:54	JC\MD	Dilution
17	P4116-26	VN084227.D	30 Sep 2024 19:18	JC\MD	Dilution
18	P4116-27	VN084228.D	30 Sep 2024 19:42	JC\MD	Dilution
19	VSTDCCC050	VN084229.D	30 Sep 2024 20:06	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:31:14 AM				
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:23:20 PM				
SubDirectory	VN102924	HP Acquire Method	MSVOA_N		HP Processing Method	82n093024w.m	

STD. NAME	STD REF.#
Tune/Reschk	VP131170
Initial Calibration Stds	
CCC	VP131173,VP131174
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084551.D	29 Oct 2024 09:05	JC\MD	Ok
2	VSTDCCC050	VN084552.D	29 Oct 2024 09:52	JC\MD	Ok,M
3	VN1029MBL01	VN084553.D	29 Oct 2024 10:36	JC\MD	Ok
4	VN1029WBL01	VN084554.D	29 Oct 2024 10:59	JC\MD	Ok
5	VN1029WBS01	VN084555.D	29 Oct 2024 11:41	JC\MD	Ok,M
6	VN1029WBSD01	VN084556.D	29 Oct 2024 12:05	JC\MD	Ok,M
7	VIBLK	VN084557.D	29 Oct 2024 12:29	JC\MD	Ok
8	P4547-08	VN084558.D	29 Oct 2024 12:53	JC\MD	Ok
9	P4561-04	VN084559.D	29 Oct 2024 13:17	JC\MD	Ok
10	P4561-08	VN084560.D	29 Oct 2024 13:41	JC\MD	Ok
11	P4567-04	VN084561.D	29 Oct 2024 14:05	JC\MD	Not Ok
12	P4567-12	VN084562.D	29 Oct 2024 14:29	JC\MD	Ok
13	P4574-03	VN084563.D	29 Oct 2024 14:53	JC\MD	Ok
14	P4574-06	VN084564.D	29 Oct 2024 15:17	JC\MD	Ok
15	P4578-06	VN084565.D	29 Oct 2024 15:41	JC\MD	Ok
16	P4578-08	VN084566.D	29 Oct 2024 16:05	JC\MD	Ok
17	P4574-06	VN084567.D	29 Oct 2024 16:29	JC\MD	Not Ok
18	VSTDCCC050	VN084568.D	29 Oct 2024 16:53	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084211.D	30 Sep 2024 09:24		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	Need ICAL	JC\MD	Not Ok
3	VSTDICC100	VSTDICC100	VN084213.D	30 Sep 2024 12:25		JC\MD	Ok,M
4	VSTDICCC050	VSTDICCC050	VN084214.D	30 Sep 2024 12:49		JC\MD	Ok,M
5	VSTDICC020	VSTDICC020	VN084215.D	30 Sep 2024 13:13		JC\MD	Ok,M
6	VSTDICC010	VSTDICC010	VN084216.D	30 Sep 2024 13:37		JC\MD	Ok,M
7	VSTDICC005	VSTDICC005	VN084217.D	30 Sep 2024 14:00		JC\MD	Ok,M
8	VSTDICC001	VSTDICC001	VN084218.D	30 Sep 2024 14:48		JC\MD	Ok,M
9	IBLK	IBLK	VN084219.D	30 Sep 2024 15:12		JC\MD	Ok
10	VSTDICV050	ICVVN093024	VN084220.D	30 Sep 2024 15:36		JC\MD	Ok,M
11	VN0930MBL01	VN0930MBL01	VN084221.D	30 Sep 2024 16:11		JC\MD	Ok
12	VN0930WBL01	VN0930WBL01	VN084222.D	30 Sep 2024 16:35		JC\MD	Ok
13	VN0930WBS01	VN0930WBS01	VN084223.D	30 Sep 2024 17:42		JC\MD	Ok,M
14	VN0930WBSD01	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06		JC\MD	Ok,M
15	P4116-24	RE132D5-20240918	VN084225.D	30 Sep 2024 18:30	vial A pH<2 Need 2x	JC\MD	Dilution
16	P4116-25	RE132D6-20240918	VN084226.D	30 Sep 2024 18:54	vial A pH<2 Need 40X	JC\MD	Dilution
17	P4116-26	RE132D7-20240918	VN084227.D	30 Sep 2024 19:18	vial A pH<2 Need 40X	JC\MD	Dilution
18	P4116-27	DUP05-20240918	VN084228.D	30 Sep 2024 19:42	vial A pH<2 Need 2x	JC\MD	Dilution

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC050	VSTDCCC050EC	VN084229.D	30 Sep 2024 20:06		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:31:14 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:23:20 PM		
SubDirectory	VN102924	HP Acquire Method	MSVOA_N	HP Processing Method	82n093024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131170
Initial Calibration Stds	
CCC	VP131173,VP131174
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084551.D	29 Oct 2024 09:05		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084552.D	29 Oct 2024 09:52		JC\MD	Ok,M
3	VN1029MBL01	VN1029MBL01	VN084553.D	29 Oct 2024 10:36		JC\MD	Ok
4	VN1029WBL01	VN1029WBL01	VN084554.D	29 Oct 2024 10:59		JC\MD	Ok
5	VN1029WBS01	VN1029WBS01	VN084555.D	29 Oct 2024 11:41		JC\MD	Ok,M
6	VN1029WBSD01	VN1029WBSD01	VN084556.D	29 Oct 2024 12:05		JC\MD	Ok,M
7	VIBLK	VIBLK	VN084557.D	29 Oct 2024 12:29		JC\MD	Ok
8	P4547-08	BP-F-20	VN084558.D	29 Oct 2024 12:53	pH#5.0 A	JC\MD	Ok
9	P4561-04	BP-F-19	VN084559.D	29 Oct 2024 13:17	pH#5.0 A	JC\MD	Ok
10	P4561-08	BP-F-18	VN084560.D	29 Oct 2024 13:41	pH#5.0 A	JC\MD	Ok
11	P4567-04	WC-1	VN084561.D	29 Oct 2024 14:05	pH#5.0 B Not req	JC\MD	Not Ok
12	P4567-12	WC-3	VN084562.D	29 Oct 2024 14:29	pH#5.0 A	JC\MD	Ok
13	P4574-03	GRAVEL-1	VN084563.D	29 Oct 2024 14:53	pH#5.0 A	JC\MD	Ok
14	P4574-06	GRAVEL-2	VN084564.D	29 Oct 2024 15:17	pH#5.0 A	JC\MD	Ok
15	P4578-06	WB-305-BOT	VN084565.D	29 Oct 2024 15:41	pH#5.0 A	JC\MD	Ok
16	P4578-08	WB-305-BOT-1	VN084566.D	29 Oct 2024 16:05	pH#5.0 A	JC\MD	Ok
17	P4574-06	GRAVEL-2	VN084567.D	29 Oct 2024 16:29	pH#5.0 B Not req	JC\MD	Not Ok
18	VSTDCCC050	VSTDCCC050EC	VN084568.D	29 Oct 2024 16:53		JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:31:14 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:23:20 PM		
SubDirectory	VN102924	HP Acquire Method	MSVOA_N	HP Processing Method	82n093024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131170
Initial Calibration Stds	
CCC	VP131173,VP131174
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP VOA	8260D			10/29/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP VOA	8260D			10/29/24	

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TCLP EXTRACTION LOGPAGE

PB164394

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : ZHE-1 / ZHE-2

TCLP Filter ID : 50223706

Start Prep Date : 10/25/2024 **Time :** 17:40

End Prep Date : 10/26/2024 **Time :** 10:40

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JP VX102824.

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	22437	N/A

Extraction Conformance/Non-Conformance Comments:

ALL ZHE samples are extracted and GIVEN AS VIAL A & B. Leak checked after 10 mintues of tumbling. TUMBLER ZHE-1 / ZHE-2 checked,30 rpm.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/26/24 11:45	JP Lab Room	SY 10/26/24
	Preparation Group	Analysis Group

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TCLP EXTRACTION LOGPAGE

PB164394

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4545-02	VNJ-215	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4547-04	BP-F-21	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4547-08	BP-F-20	03	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4561-04	BP-F-19	04	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4561-08	BP-F-18	05	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4567-04	WC-1	06	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4567-08	WC-2	07	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4567-12	WC-3	08	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4574-03	GRAVEL-1	09	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4574-06	GRAVEL-2	10	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4578-06	WB-305-BOT	11	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4578-08	WB-305-BOT-1	12	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
PB164394TB	LEB394	13	N/A	500	N/A	N/A	N/A	4.93	N/A	ZHE-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4545-02	VNJ-215	N/A	N/A	N/A	N/A	100	N/A
P4547-04	BP-F-21	N/A	N/A	N/A	N/A	100	N/A
P4547-08	BP-F-20	N/A	N/A	N/A	N/A	100	N/A
P4561-04	BP-F-19	N/A	N/A	N/A	N/A	100	N/A
P4561-08	BP-F-18	N/A	N/A	N/A	N/A	100	N/A
P4567-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
P4567-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
P4567-12	WC-3	N/A	N/A	N/A	N/A	100	N/A
P4574-03	GRAVEL-1	N/A	N/A	N/A	N/A	100	N/A
P4574-06	GRAVEL-2	N/A	N/A	N/A	N/A	100	N/A
P4578-06	WB-305-BOT	N/A	N/A	N/A	N/A	100	N/A
P4578-08	WB-305-BOT-1	N/A	N/A	N/A	N/A	100	N/A
PB164394TB	LEB394	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp mzhe p4545 **WorkList ID :** 184761 **Department :** TCLP Extraction **Date :** 10-25-2024 07:59:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4545-02	VNJ-215	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K61	10/24/2024	1311 ZHE
P4547-04	BP-F-21	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K51	10/24/2024	1311 ZHE
P4547-08	BP-F-20	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K51	10/24/2024	1311 ZHE
P4561-04	BP-F-19	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311 ZHE
P4561-08	BP-F-18	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311 ZHE
P4567-04	WC-1	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311 ZHE
P4567-08	WC-2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311 ZHE
P4567-12	WC-3	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311 ZHE
P4574-03	GRAVEL-1	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311 ZHE
P4574-06	GRAVEL-2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311 ZHE
P4578-06	WB-305-BOT	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	K63	10/25/2024	1311 ZHE
P4578-08	WB-305-BOT-1	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	K63	10/25/2024	1311 ZHE

Date/Time 10/25/24 17:25
Raw Sample Received by: MD WC
Raw Sample Relinquished by: L.C (Sun)

Date/Time 10/25/24 19:30
Raw Sample Received by: L.C (Sun)
Raw Sample Relinquished by: MD WC

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Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Client ID : WB-305-SW									
P4578-01	WB-305-SW	WATER	9-Tricosene, (Z)-	*	5.800	J	0	0	ug/L
P4578-01	WB-305-SW	WATER	Benzophenone	*	7.300	J	0	0	ug/L
P4578-01	WB-305-SW	WATER	Butane, 2-methoxy-2-methyl-	*	87.000	J	0	0	ug/L
P4578-01	WB-305-SW	WATER	n-Hexadecanoic acid	*	9.000	J	0	0	ug/L
P4578-01	WB-305-SW	WATER	Octadecanoic acid	*	3.600	J	0	0	ug/L
			Total Tics :		**112.70**				
			Total Concentration:		**112.70**				
Client ID : WB-305-SW-1									
P4578-02	WB-305-SW-1	WATER	Benzophenone	*	7.300	J	0	0	ug/L
P4578-02	WB-305-SW-1	WATER	Butane, 2-methoxy-2-methyl-	*	110.000	J	0	0	ug/L
			Total Tics :		**117.30**				
			Total Concentration:		**117.30**				
Client ID : WB-305-TOP									
P4578-03	WB-305-TOP	SOIL	Naphthalene		210.000	J	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	2-Methylnaphthalene		190.000	J	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Acenaphthene		190.000	J	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Fluorene		160.000	J	160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene		640.000		160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Anthracene		270.000	J	160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Fluoranthene		610.000		150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Pyrene		850.000		150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(a)anthracene		550.000		150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Chrysene		580.000		150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(b)fluoranthene		400.000		150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(k)fluoranthene		160.000	J	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(a)pyrene		530.000		170	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Indeno(1,2,3-cd)pyrene		180.000	J	140	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(g,h,i)perylene		230.000	J	150	320	ug/Kg
			Total Svoc :		**5,750.00**				
P4578-03	WB-305-TOP	SOIL	11H-Benzo[a]fluorene	*	220.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	11H-Benzo[b]fluorene	*	320.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Anthracene, 2-methyl-	*	230.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 2-ethenyl-1,4-dimethyl-	*	240.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	5-Bromo-2-thiophenecarboxaldeh	*	670.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo[e]pyrene	*	250.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzophenone	*	600.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P4578-03	WB-305-TOP	SOIL	Butane, 2-methoxy-2-methyl-	*	3,200.000	JB	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Naphthalene, 2,3-dimethyl-	*	230.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	n-Hexadecanoic acid	*	540.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	o-Cymene	*	260.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Pyrene, 1-methyl-	*	170.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Silane, trichlorooctadecyl-	*	280.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Sulfurous acid, 2-ethylhexyl hexyl	*	180.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown12.510	*	180.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown17.380	*	420.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown18.345	*	270.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Hexadecane	*	230.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene, 2,5-dimethyl-	*	200.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene, 2-methyl-	*	190.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	1-Methylnaphthalene	*	210.000	J	150	320	ug/Kg
			Total Tics :		**9,090.00**				
			Total Concentration:		**14,840.00**				
Client ID :	**WB-305-TOP-1**								
P4578-04	WB-305-TOP-1	SOIL	Phenanthrene		200.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Fluoranthene		180.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Pyrene		190.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzo(a)anthracene		140.000	J	140	290	ug/Kg
			Total Svoc :		**710.00**				
P4578-04	WB-305-TOP-1	SOIL	Benzaldehyde, 3,5-dichloro-2-hyd	*	200.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzo[e]pyrene	*	140.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzophenone	*	540.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Butane, 2-methoxy-2-methyl-	*	2,600.000	JB	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Tricosyl trifluoroacetate	*	180.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	n-Hexadecanoic acid	*	430.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Pentanedioic acid, dimethyl ester	*	120.000	J	0	0	ug/Kg
			Total Tics :		**4,210.00**				
			Total Concentration:		**4,920.00**				
Client ID :	**WB-305-BOT**								
P4578-05	WB-305-BOT	SOIL	Benzophenone	*	540.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Butane, 2-methoxy-2-methyl-	*	2,200.000	JB	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Heptafluorobutyric acid, hexadecy	*	240.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	n-Hexadecanoic acid	*	340.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Pentanedioic acid, dimethyl ester	*	83.200	J	0	0	ug/Kg
			Total Tics :		**3,403.20**				
			Total Concentration:		**3,403.20**				

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Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**WB-305-BOT-1**								
P4578-07	WB-305-BOT-1	SOIL	Benzophenone	*	390.000	J	0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Butane, 2-methoxy-2-methyl-	*	1,900.000	JB	0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	n-Hexadecanoic acid	*	280.000	J	0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Octacosyl trifluoroacetate	*	220.000	J	0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Pentanedioic acid, dimethyl ester	*	78.200	J	0	0	ug/Kg
			Total Tics :		**2,868.20**				
			Total Concentration:		**2,868.20**				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	13.7	*	15 (10) - 110 (139)	9%	SPK: 150
13127-88-3	Phenol-d6	12.7	*	15 (10) - 110 (134)	8%	SPK: 150
4165-60-0	Nitrobenzene-d5	17.0	*	30 (49) - 130 (133)	17%	SPK: 100
321-60-8	2-Fluorobiphenyl	18.7	*	30 (52) - 130 (132)	19%	SPK: 100
118-79-6	2,4,6-Tribromophenol	30.3		15 (44) - 110 (137)	20%	SPK: 150
1718-51-0	Terphenyl-d14	23.4	*	30 (48) - 130 (125)	23%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	185000	6.886			
1146-65-2	Naphthalene-d8	677000	8.163			
15067-26-2	Acenaphthene-d10	335000	9.927			
1517-22-2	Phenanthrene-d10	528000	11.416			
1719-03-5	Chrysene-d12	331000	14.068			
1520-96-3	Perylene-d12	264000	15.574			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	87.0	J		2.15	ug/L
000119-61-9	Benzophenone	7.30	J		10.6	ug/L
000057-10-3	n-Hexadecanoic acid	9.00	J		11.9	ug/L
000057-11-4	Octadecanoic acid	3.60	J		12.7	ug/L
027519-02-4	9-Tricosene, (Z)-	5.80	J		13.9	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SWRE	SDG No.:	P4578
Lab Sample ID:	P4578-01RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140206.D	1	10/30/24 08:50	11/01/24 12:07	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SWRE	SDG No.:	P4578
Lab Sample ID:	P4578-01RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140206.D	1	10/30/24 08:50	11/01/24 12:07	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SWRE	SDG No.:	P4578
Lab Sample ID:	P4578-01RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140206.D	1	10/30/24 08:50	11/01/24 12:07	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	14.1	*	15 (10) - 110 (139)	9%	SPK: 150
13127-88-3	Phenol-d6	13.2	*	15 (10) - 110 (134)	9%	SPK: 150
4165-60-0	Nitrobenzene-d5	17.3	*	30 (49) - 130 (133)	17%	SPK: 100
321-60-8	2-Fluorobiphenyl	17.1	*	30 (52) - 130 (132)	17%	SPK: 100
118-79-6	2,4,6-Tribromophenol	34.0		15 (44) - 110 (137)	23%	SPK: 150
1718-51-0	Terphenyl-d14	23.9	*	30 (48) - 130 (125)	24%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	222000	6.881			
1146-65-2	Naphthalene-d8	875000	8.163			
15067-26-2	Acenaphthene-d10	497000	9.922			
1517-22-2	Phenanthrene-d10	893000	11.416			
1719-03-5	Chrysene-d12	536000	14.068			
1520-96-3	Perylene-d12	445000	15.574			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	22.4		15 (10) - 110 (139)	30%	SPK: 75
13127-88-3	Phenol-d6	18.1		15 (10) - 110 (134)	24%	SPK: 75
4165-60-0	Nitrobenzene-d5	21.6		30 (49) - 130 (133)	43%	SPK: 50
321-60-8	2-Fluorobiphenyl	22.9		30 (52) - 130 (132)	46%	SPK: 50
118-79-6	2,4,6-Tribromophenol	43.4		15 (44) - 110 (137)	58%	SPK: 75
1718-51-0	Terphenyl-d14	26.5		30 (48) - 130 (125)	53%	SPK: 50
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	150000	7.571			
1146-65-2	Naphthalene-d8	662000	10.338			
15067-26-2	Acenaphthene-d10	470000	14.175			
1517-22-2	Phenanthrene-d10	1210000	16.913			
1719-03-5	Chrysene-d12	1600000	21.072			
1520-96-3	Perylene-d12	2060000	23.364			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	110	J		2.87	ug/L
000119-61-9	Benzophenone	7.30	J		15.5	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1RE	SDG No.:	P4578
Lab Sample ID:	P4578-02RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140207.D	1	10/30/24 08:50	11/01/24 12:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1RE	SDG No.:	P4578
Lab Sample ID:	P4578-02RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140207.D	1	10/30/24 08:50	11/01/24 12:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1RE	SDG No.:	P4578
Lab Sample ID:	P4578-02RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140207.D	1	10/30/24 08:50	11/01/24 12:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	20.4	*	15 (10) - 110 (139)	14%	SPK: 150
13127-88-3	Phenol-d6	17.7	*	15 (10) - 110 (134)	12%	SPK: 150
4165-60-0	Nitrobenzene-d5	24.2	*	30 (49) - 130 (133)	24%	SPK: 100
321-60-8	2-Fluorobiphenyl	23.2	*	30 (52) - 130 (132)	23%	SPK: 100
118-79-6	2,4,6-Tribromophenol	41.6		15 (44) - 110 (137)	28%	SPK: 150
1718-51-0	Terphenyl-d14	27.1	*	30 (48) - 130 (125)	27%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	187000	6.881			
1146-65-2	Naphthalene-d8	733000	8.163			
15067-26-2	Acenaphthene-d10	416000	9.922			
1517-22-2	Phenanthrene-d10	750000	11.416			
1719-03-5	Chrysene-d12	460000	14.068			
1520-96-3	Perylene-d12	382000	15.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	340	U	340	610	ug/Kg
108-95-2	Phenol	150	U	150	320	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	160	U	160	320	ug/Kg
95-57-8	2-Chlorophenol	150	U	150	320	ug/Kg
95-48-7	2-Methylphenol	150	U	150	320	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	170	320	ug/Kg
98-86-2	Acetophenone	160	U	160	320	ug/Kg
65794-96-9	3+4-Methylphenols	150	U	150	610	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	74.8	U	74.8	150	ug/Kg
67-72-1	Hexachloroethane	150	U	150	320	ug/Kg
98-95-3	Nitrobenzene	170	U	170	320	ug/Kg
78-59-1	Isophorone	160	U	160	320	ug/Kg
88-75-5	2-Nitrophenol	180	U	180	320	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	170	320	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	160	U	160	320	ug/Kg
120-83-2	2,4-Dichlorophenol	140	U	140	320	ug/Kg
91-20-3	Naphthalene	210	J	150	320	ug/Kg
106-47-8	4-Chloroaniline	150	UQ	150	320	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	150	320	ug/Kg
105-60-2	Caprolactam	160	U	160	610	ug/Kg
59-50-7	4-Chloro-3-methylphenol	140	U	140	320	ug/Kg
91-57-6	2-Methylnaphthalene	190	J	150	320	ug/Kg
77-47-4	Hexachlorocyclopentadiene	290	UQ	290	610	ug/Kg
88-06-2	2,4,6-Trichlorophenol	130	U	130	320	ug/Kg
95-95-4	2,4,5-Trichlorophenol	140	U	140	320	ug/Kg
92-52-4	1,1-Biphenyl	160	U	160	320	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	150	320	ug/Kg
88-74-4	2-Nitroaniline	180	U	180	320	ug/Kg
131-11-3	Dimethylphthalate	150	U	150	320	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	160	U	160	320	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	150	320	ug/Kg
99-09-2	3-Nitroaniline	170	UQ	170	320	ug/Kg
83-32-9	Acenaphthene	190	J	150	320	ug/Kg
51-28-5	2,4-Dinitrophenol	450	U	450	610	ug/Kg
100-02-7	4-Nitrophenol	220	U	220	610	ug/Kg
132-64-9	Dibenzofuran	160	U	160	320	ug/Kg
121-14-2	2,4-Dinitrotoluene	160	U	160	320	ug/Kg
84-66-2	Diethylphthalate	150	U	150	320	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	160	U	160	320	ug/Kg
86-73-7	Fluorene	160	J	160	320	ug/Kg
100-01-6	4-Nitroaniline	200	U	200	320	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	220	U	220	610	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	150	320	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	150	320	ug/Kg
118-74-1	Hexachlorobenzene	160	U	160	320	ug/Kg
1912-24-9	Atrazine	170	U	170	320	ug/Kg
87-86-5	Pentachlorophenol	140	U	140	610	ug/Kg
85-01-8	Phenanthrene	640		160	320	ug/Kg
120-12-7	Anthracene	270	J	160	320	ug/Kg
86-74-8	Carbazole	150	U	150	320	ug/Kg
84-74-2	Di-n-butylphthalate	160	U	160	320	ug/Kg
206-44-0	Fluoranthene	610		150	320	ug/Kg
129-00-0	Pyrene	850		150	320	ug/Kg
85-68-7	Butylbenzylphthalate	180	U	180	320	ug/Kg
91-94-1	3,3-Dichlorobenzidine	180	UQ	180	610	ug/Kg
56-55-3	Benzo(a)anthracene	550		150	320	ug/Kg
218-01-9	Chrysene	580		150	320	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	170	320	ug/Kg
117-84-0	Di-n-octyl phthalate	200	U	200	610	ug/Kg
205-99-2	Benzo(b)fluoranthene	400		150	320	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	160	J	150	320	ug/Kg
50-32-8	Benzo(a)pyrene	530		170	320	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	180	J	140	320	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	150	320	ug/Kg
191-24-2	Benzo(g,h,i)perylene	230	J	150	320	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	160	U	160	320	ug/Kg
123-91-1	1,4-Dioxane	200	U	200	320	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	140	320	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	80.3		30 (18) - 130 (112)	54%	SPK: 150
13127-88-3	Phenol-d6	78.7		30 (15) - 130 (107)	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.2		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.2		30 (20) - 130 (109)	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	78.7		30 (10) - 130 (116)	52%	SPK: 150
1718-51-0	Terphenyl-d14	60.6		30 (10) - 130 (105)	61%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	6.881			
1146-65-2	Naphthalene-d8	423000	8.163			
15067-26-2	Acenaphthene-d10	224000	9.922			
1517-22-2	Phenanthrene-d10	363000	11.416			
1719-03-5	Chrysene-d12	172000	14.069			
1520-96-3	Perylene-d12	221000	15.58			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	3200	JB		2.18	ug/Kg
000527-84-4	o-Cymene	260	J		7.67	ug/Kg
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	240	J		7.90	ug/Kg
000544-76-3	Hexadecane	230	J		8.75	ug/Kg
90-12-0	1-Methylnaphthalene	210	J		8.97	ug/Kg
000112-04-9	Silane, trichlorooctadecyl-	280	J		9.32	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	230	J		9.57	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1000309-20-2	Sulfurous acid, 2-ethylhexyl hexyl	180	J		9.85	ug/Kg
000119-61-9	Benzophenone	600	J		10.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	230	J		11.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	540	J		11.9	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	190	J		12.0	ug/Kg
004701-17-1	5-Bromo-2-thiophenecarboxaldehyde	670	J		12.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	200	J		12.5	ug/Kg
	unknown12.510	180	J		12.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	170	J		13.1	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	320	J		13.2	ug/Kg
000238-84-6	11H-Benzo[a]fluorene	220	J		13.3	ug/Kg
000192-97-2	Benzo[e]pyrene	250	J		15.5	ug/Kg
	unknown17.380	420	J		17.4	ug/Kg
	unknown18.345	270	J		18.3	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	310	U	310	560	ug/Kg
108-95-2	Phenol	140	U	140	290	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	140	290	ug/Kg
95-57-8	2-Chlorophenol	140	U	140	290	ug/Kg
95-48-7	2-Methylphenol	140	U	140	290	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	150	290	ug/Kg
98-86-2	Acetophenone	150	U	150	290	ug/Kg
65794-96-9	3+4-Methylphenols	140	U	140	560	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	68.5	U	68.5	140	ug/Kg
67-72-1	Hexachloroethane	140	U	140	290	ug/Kg
98-95-3	Nitrobenzene	150	U	150	290	ug/Kg
78-59-1	Isophorone	140	U	140	290	ug/Kg
88-75-5	2-Nitrophenol	160	U	160	290	ug/Kg
105-67-9	2,4-Dimethylphenol	160	U	160	290	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	150	290	ug/Kg
120-83-2	2,4-Dichlorophenol	130	U	130	290	ug/Kg
91-20-3	Naphthalene	140	U	140	290	ug/Kg
106-47-8	4-Chloroaniline	140	UQ	140	290	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	140	290	ug/Kg
105-60-2	Caprolactam	150	U	150	560	ug/Kg
59-50-7	4-Chloro-3-methylphenol	130	U	130	290	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	140	290	ug/Kg
77-47-4	Hexachlorocyclopentadiene	270	UQ	270	560	ug/Kg
88-06-2	2,4,6-Trichlorophenol	120	U	120	290	ug/Kg
95-95-4	2,4,5-Trichlorophenol	130	U	130	290	ug/Kg
92-52-4	1,1-Biphenyl	150	U	150	290	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	140	290	ug/Kg
88-74-4	2-Nitroaniline	160	U	160	290	ug/Kg
131-11-3	Dimethylphthalate	140	U	140	290	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	150	290	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	140	290	ug/Kg
99-09-2	3-Nitroaniline	150	UQ	150	290	ug/Kg
83-32-9	Acenaphthene	140	U	140	290	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	410	560	ug/Kg
100-02-7	4-Nitrophenol	200	U	200	560	ug/Kg
132-64-9	Dibenzofuran	140	U	140	290	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	150	290	ug/Kg
84-66-2	Diethylphthalate	140	U	140	290	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	150	290	ug/Kg
86-73-7	Fluorene	150	U	150	290	ug/Kg
100-01-6	4-Nitroaniline	180	U	180	290	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	200	U	200	560	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	140	290	ug/Kg
101-55-3	4-Bromophenyl-phenylether	130	U	130	290	ug/Kg
118-74-1	Hexachlorobenzene	140	U	140	290	ug/Kg
1912-24-9	Atrazine	160	U	160	290	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	560	ug/Kg
85-01-8	Phenanthrene	200	J	140	290	ug/Kg
120-12-7	Anthracene	140	U	140	290	ug/Kg
86-74-8	Carbazole	140	U	140	290	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	140	290	ug/Kg
206-44-0	Fluoranthene	180	J	140	290	ug/Kg
129-00-0	Pyrene	190	J	140	290	ug/Kg
85-68-7	Butylbenzylphthalate	160	U	160	290	ug/Kg
91-94-1	3,3-Dichlorobenzidine	170	UQ	170	560	ug/Kg
56-55-3	Benzo(a)anthracene	140	J	140	290	ug/Kg
218-01-9	Chrysene	140	U	140	290	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	150	290	ug/Kg
117-84-0	Di-n-octyl phthalate	190	U	190	560	ug/Kg
205-99-2	Benzo(b)fluoranthene	140	U	140	290	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	140	U	140	290	ug/Kg
50-32-8	Benzo(a)pyrene	160	U	160	290	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	130	U	130	290	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	140	290	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	U	140	290	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	150	290	ug/Kg
123-91-1	1,4-Dioxane	190	U	190	290	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	130	U	130	290	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	78.6		30 (18) - 130 (112)	52%	SPK: 150
13127-88-3	Phenol-d6	77.4		30 (15) - 130 (107)	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	58.7		30 (18) - 130 (107)	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.3		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	63.6		30 (10) - 130 (116)	42%	SPK: 150
1718-51-0	Terphenyl-d14	42.4		30 (10) - 130 (105)	42%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.887			
1146-65-2	Naphthalene-d8	474000	8.169			
15067-26-2	Acenaphthene-d10	241000	9.922			
1517-22-2	Phenanthrene-d10	346000	11.41			
1719-03-5	Chrysene-d12	236000	14.051			
1520-96-3	Perylene-d12	245000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	2600	JB		2.19	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	120	J		7.70	ug/Kg
000119-61-9	Benzophenone	540	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	430	J		11.9	ug/Kg
000090-60-8	Benzaldehyde, 3,5-dichloro-2-hydro	200	J		12.0	ug/Kg
1000351-75-1	Tricosyl trifluoroacetate	180	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	140	J		15.1	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	400	ug/Kg
108-95-2	Phenol	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	98.1	U	98.1	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	97.1	U	97.1	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	49.1	U	49.1	97.4	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	100	U	100	210	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	100	U	100	210	ug/Kg
120-83-2	2,4-Dichlorophenol	91.9	U	91.9	210	ug/Kg
91-20-3	Naphthalene	100	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	100	UQ	100	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	110	U	110	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	94.3	U	94.3	210	ug/Kg
91-57-6	2-Methylnaphthalene	100	U	100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	UQ	190	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	86.9	U	86.9	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	90.1	U	90.1	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	99.4	U	99.4	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	98.7	U	98.7	210	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	400	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	400	ug/Kg
132-64-9	Dibenzofuran	100	U	100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	210	ug/Kg
84-66-2	Diethylphthalate	97.5	U	97.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	210	ug/Kg
86-73-7	Fluorene	100	U	100	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	99.3	U	99.3	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	96.0	U	96.0	210	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	94.1	U	94.1	400	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	100	U	100	210	ug/Kg
86-74-8	Carbazole	97.7	U	97.7	210	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	210	ug/Kg
206-44-0	Fluoranthene	99.4	U	99.4	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	400	ug/Kg
56-55-3	Benzo(a)anthracene	98.2	U	98.2	210	ug/Kg
218-01-9	Chrysene	96.8	U	96.8	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	98.7	U	98.7	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	95.1	U	95.1	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	98.8	U	98.8	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	97.5	U	97.5	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	90.9	U	90.9	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	89.9		30 (18) - 130 (112)	60%	SPK: 150
13127-88-3	Phenol-d6	88.8		30 (15) - 130 (107)	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.2		30 (18) - 130 (107)	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.1		30 (20) - 130 (109)	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		30 (10) - 130 (116)	68%	SPK: 150
1718-51-0	Terphenyl-d14	70.9		30 (10) - 130 (105)	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	121000	6.887			
1146-65-2	Naphthalene-d8	473000	8.169			
15067-26-2	Acenaphthene-d10	267000	9.922			
1517-22-2	Phenanthrene-d10	461000	11.41			
1719-03-5	Chrysene-d12	225000	14.057			
1520-96-3	Perylene-d12	272000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	2200	JB		2.20	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	83.2	J		7.70	ug/Kg
000119-61-9	Benzophenone	540	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	340	J		11.9	ug/Kg
006385-15-5	Heptafluorobutyric acid, hexadecyl	240	J		13.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	350	ug/Kg
108-95-2	Phenol	87.6	U	87.6	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	88.4	U	88.4	180	ug/Kg
95-57-8	2-Chlorophenol	88.2	U	88.2	180	ug/Kg
95-48-7	2-Methylphenol	85.2	U	85.2	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	96.0	U	96.0	180	ug/Kg
98-86-2	Acetophenone	91.8	U	91.8	180	ug/Kg
65794-96-9	3+4-Methylphenols	84.3	U	84.3	350	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	42.6	U	42.6	84.5	ug/Kg
67-72-1	Hexachloroethane	87.7	U	87.7	180	ug/Kg
98-95-3	Nitrobenzene	95.9	U	95.9	180	ug/Kg
78-59-1	Isophorone	89.4	U	89.4	180	ug/Kg
88-75-5	2-Nitrophenol	99.8	U	99.8	180	ug/Kg
105-67-9	2,4-Dimethylphenol	98.5	U	98.5	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	90.6	U	90.6	180	ug/Kg
120-83-2	2,4-Dichlorophenol	79.8	U	79.8	180	ug/Kg
91-20-3	Naphthalene	87.3	U	87.3	180	ug/Kg
106-47-8	4-Chloroaniline	87.3	UQ	87.3	180	ug/Kg
87-68-3	Hexachlorobutadiene	88.0	U	88.0	180	ug/Kg
105-60-2	Caprolactam	91.7	U	91.7	350	ug/Kg
59-50-7	4-Chloro-3-methylphenol	81.9	U	81.9	180	ug/Kg
91-57-6	2-Methylnaphthalene	87.2	U	87.2	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	350	ug/Kg
88-06-2	2,4,6-Trichlorophenol	75.4	U	75.4	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	78.2	U	78.2	180	ug/Kg
92-52-4	1,1-Biphenyl	92.3	U	92.3	180	ug/Kg
91-58-7	2-Chloronaphthalene	88.0	U	88.0	180	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	180	ug/Kg
131-11-3	Dimethylphthalate	86.3	U	86.3	180	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	91.4	U	91.4	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	87.9	U	87.9	180	ug/Kg
99-09-2	3-Nitroaniline	94.2	UQ	94.2	180	ug/Kg
83-32-9	Acenaphthene	85.7	U	85.7	180	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	350	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	350	ug/Kg
132-64-9	Dibenzofuran	89.2	U	89.2	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	91.1	U	91.1	180	ug/Kg
84-66-2	Diethylphthalate	84.6	U	84.6	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	90.4	U	90.4	180	ug/Kg
86-73-7	Fluorene	90.3	U	90.3	180	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	350	ug/Kg
86-30-6	n-Nitrosodiphenylamine	86.2	U	86.2	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	83.4	U	83.4	180	ug/Kg
118-74-1	Hexachlorobenzene	89.8	U	89.8	180	ug/Kg
1912-24-9	Atrazine	96.6	U	96.6	180	ug/Kg
87-86-5	Pentachlorophenol	81.7	U	81.7	350	ug/Kg
85-01-8	Phenanthrene	88.7	U	88.7	180	ug/Kg
120-12-7	Anthracene	89.2	U	89.2	180	ug/Kg
86-74-8	Carbazole	84.8	U	84.8	180	ug/Kg
84-74-2	Di-n-butylphthalate	89.1	U	89.1	180	ug/Kg
206-44-0	Fluoranthene	86.3	U	86.3	180	ug/Kg
129-00-0	Pyrene	87.7	U	87.7	180	ug/Kg
85-68-7	Butylbenzylphthalate	100	U	100	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	350	ug/Kg
56-55-3	Benzo(a)anthracene	85.3	U	85.3	180	ug/Kg
218-01-9	Chrysene	84.0	U	84.0	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	96.1	U	96.1	180	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	350	ug/Kg
205-99-2	Benzo(b)fluoranthene	85.7	U	85.7	180	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	87.3	U	87.3	180	ug/Kg
50-32-8	Benzo(a)pyrene	98.3	U	98.3	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	82.5	U	82.5	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	85.8	U	85.8	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	84.6	U	84.6	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	91.7	U	91.7	180	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	78.9	U	78.9	180	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.9		30 (18) - 130 (112)	55%	SPK: 150
13127-88-3	Phenol-d6	82.6		30 (15) - 130 (107)	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.0		30 (18) - 130 (107)	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.1		30 (20) - 130 (109)	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	93.8		30 (10) - 130 (116)	63%	SPK: 150
1718-51-0	Terphenyl-d14	67.9		30 (10) - 130 (105)	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.887			
1146-65-2	Naphthalene-d8	478000	8.169			
15067-26-2	Acenaphthene-d10	267000	9.922			
1517-22-2	Phenanthrene-d10	462000	11.41			
1719-03-5	Chrysene-d12	225000	14.057			
1520-96-3	Perylene-d12	269000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1900	JB		2.19	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	78.2	J		7.70	ug/Kg
000119-61-9	Benzophenone	390	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	280	J		11.9	ug/Kg
1000351-74-9	Octacosyl trifluoroacetate	220	J		13.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4561-05MS	BP-F-18MS	2-Fluorophenol	150	87.2	58		30 (18)	130 (112)
		Phenol-d6	150	90.3	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.8	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	65.7	66		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	104	70		30 (10)	130 (116)
		Terphenyl-d14	100	66.3	66		30 (10)	130 (105)
P4561-05MSD	BP-F-18MSD	2-Fluorophenol	150	84.4	56		30 (18)	130 (112)
		Phenol-d6	150	87.1	58		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.6	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	64.8	65		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	103	69		30 (10)	130 (116)
		Terphenyl-d14	100	64.7	65		30 (10)	130 (105)
P4578-03	WB-305-TOP	2-Fluorophenol	150	80.3	54		30 (18)	130 (112)
		Phenol-d6	150	78.7	52		30 (15)	130 (107)
		Nitrobenzene-d5	100	62.2	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	58.2	58		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	78.7	52		30 (10)	130 (116)
		Terphenyl-d14	100	60.6	61		30 (10)	130 (105)
P4578-04	WB-305-TOP-1	2-Fluorophenol	150	78.6	52		30 (18)	130 (112)
		Phenol-d6	150	77.4	52		30 (15)	130 (107)
		Nitrobenzene-d5	100	58.7	59		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.3	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	63.6	42		30 (10)	130 (116)
		Terphenyl-d14	100	42.4	42		30 (10)	130 (105)
P4578-05	WB-305-BOT	2-Fluorophenol	150	89.9	60		30 (18)	130 (112)
		Phenol-d6	150	88.8	59		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.2	66		30 (18)	130 (107)
		2-Fluorobiphenyl	100	66.1	66		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	102	68		30 (10)	130 (116)
		Terphenyl-d14	100	70.9	71		30 (10)	130 (105)
P4578-07	WB-305-BOT-1	2-Fluorophenol	150	82.9	55		30 (18)	130 (112)
		Phenol-d6	150	82.6	55		30 (15)	130 (107)
		Nitrobenzene-d5	100	60.0	60		30 (18)	130 (107)
		2-Fluorobiphenyl	100	58.1	58		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	93.8	63		30 (10)	130 (116)
		Terphenyl-d14	100	67.9	68		30 (10)	130 (105)
PB164461BL	PB164461BL	2-Fluorophenol	150	119	79		30 (18)	130 (112)
		Phenol-d6	150	116	77		30 (15)	130 (107)
		Nitrobenzene-d5	100	89.7	90		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.0	86		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	135	90		30 (10)	130 (116)
		Terphenyl-d14	100	81.7	82		30 (10)	130 (105)
PB164461BS	PB164461BS	2-Fluorophenol	150	122	81		30 (18)	130 (112)
		Phenol-d6	150	119	80		30 (15)	130 (107)
		Nitrobenzene-d5	100	92.1	92		30 (18)	130 (107)
		2-Fluorobiphenyl	100	87.6	88		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	144	96		30 (10)	130 (116)
		Terphenyl-d14	100	100	100		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4578-01	WB-305-SW	2-Fluorophenol	150	13.7	9	*	15 (10)	110 (139)
		Phenol-d6	150	12.7	8	*	15 (10)	110 (134)
		Nitrobenzene-d5	100	17.0	17	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	18.7	19	*	30 (52)	130 (132)
		2,4,6-Tribromophenol	150	30.3	20		15 (44)	110 (137)
		Terphenyl-d14	100	23.4	23	*	30 (48)	130 (125)
P4578-01RE	WB-305-SWRE	2-Fluorophenol	150	14.1	9	*	15 (10)	110 (139)
		Phenol-d6	150	13.2	9	*	15 (10)	110 (134)
		Nitrobenzene-d5	100	17.3	17	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	17.1	17	*	30 (52)	130 (132)
		2,4,6-Tribromophenol	150	34.0	23		15 (44)	110 (137)
		Terphenyl-d14	100	23.9	24	*	30 (48)	130 (125)
P4578-02	WB-305-SW-1	2-Fluorophenol	75	22.4	30		15 (10)	110 (139)
		Phenol-d6	75	18.1	24		15 (10)	110 (134)
		Nitrobenzene-d5	50	21.6	43		30 (49)	130 (133)
		2-Fluorobiphenyl	50	22.9	46		30 (52)	130 (132)
		2,4,6-Tribromophenol	75	43.4	58		15 (44)	110 (137)
		Terphenyl-d14	50	26.5	53		30 (48)	130 (125)
P4578-02RE	WB-305-SW-1RE	2-Fluorophenol	150	20.4	14	*	15 (10)	110 (139)
		Phenol-d6	150	17.7	12	*	15 (10)	110 (134)
		Nitrobenzene-d5	100	24.2	24	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	23.2	23	*	30 (52)	130 (132)
		2,4,6-Tribromophenol	150	41.6	28		15 (44)	110 (137)
		Terphenyl-d14	100	27.1	27	*	30 (48)	130 (125)
PB164533BL	PB164533BL	2-Fluorophenol	150	160	107		15 (10)	110 (139)
		Phenol-d6	150	148	99		15 (10)	110 (134)
		Nitrobenzene-d5	100	98.4	98		30 (49)	130 (133)
		2-Fluorobiphenyl	100	104	104		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	150	100		15 (44)	110 (137)
		Terphenyl-d14	100	89.9	90		30 (48)	130 (125)
PB164533BS	PB164533BS	2-Fluorophenol	150	154	102		15 (10)	110 (139)
		Phenol-d6	150	139	92		15 (10)	110 (134)
		Nitrobenzene-d5	100	91.2	91		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.5	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	138	92		15 (44)	110 (137)
		Terphenyl-d14	100	86.8	87		30 (48)	130 (125)
PB164533BSD	PB164533BSD	2-Fluorophenol	150	154	103		15 (10)	110 (139)
		Phenol-d6	150	140	93		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.8	93		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.2	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	139	93		15 (44)	110 (137)
		Terphenyl-d14	100	86.4	86		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4561-05MS		**Client Sample ID: BP-F-18MS**						**DataFile: BF140105.D**			
Benzaldehyde	1200	0	290	ug/Kg	24				20 (10)	160 (86)	
Phenol	1200	0	1100	ug/Kg	92				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1200	0	1100	ug/Kg	92				70 (54)	130 (125)	
2-Chlorophenol	1200	0	1100	ug/Kg	92				70 (79)	130 (107)	
2-Methylphenol	1200	0	1100	ug/Kg	92				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1200	0	1100	ug/Kg	92				70 (65)	130 (110)	
Acetophenone	1200	0	1000	ug/Kg	83				70 (75)	130 (111)	
3+4-Methylphenols	1200	0	1000	ug/Kg	83				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1200	0	1100	ug/Kg	92				70 (59)	130 (119)	
Hexachloroethane	1200	0	1100	ug/Kg	92				20 (65)	160 (117)	
Nitrobenzene	1200	0	1000	ug/Kg	83				70 (70)	130 (119)	
Isophorone	1200	0	1100	ug/Kg	92				70 (76)	130 (122)	
2-Nitrophenol	1200	0	1300	ug/Kg	108				70 (54)	130 (145)	
2,4-Dimethylphenol	1200	0	1200	ug/Kg	100				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1200	0	1100	ug/Kg	92				70 (68)	130 (112)	
2,4-Dichlorophenol	1200	0	1100	ug/Kg	92				70 (72)	130 (118)	
Naphthalene	1200	0	1000	ug/Kg	83				70 (72)	130 (110)	
4-Chloroaniline	1200	0	280	ug/Kg	23	*			70 (10)	130 (91)	
Hexachlorobutadiene	1200	0	1100	ug/Kg	92				70 (66)	130 (114)	
Caprolactam	1200	0	1100	ug/Kg	92				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1200	0	1100	ug/Kg	92				70 (57)	130 (132)	
2-Methylnaphthalene	1200	0	1100	ug/Kg	92				70 (59)	130 (123)	
Hexachlorocyclopentadiene	2300	0	3900	ug/Kg	170	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	1200	0	1100	ug/Kg	92				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1200	0	1100	ug/Kg	92				70 (72)	130 (117)	
1,1-Biphenyl	1200	0	1100	ug/Kg	92				70 (75)	130 (113)	
2-Chloronaphthalene	1200	0	1100	ug/Kg	92				70 (67)	130 (118)	
2-Nitroaniline	1200	0	1200	ug/Kg	100				70 (69)	130 (127)	
Dimethylphthalate	1200	0	1100	ug/Kg	92				70 (70)	130 (113)	
Acenaphthylene	1200	0	1100	ug/Kg	92				70 (79)	130 (118)	
2,6-Dinitrotoluene	1200	0	1100	ug/Kg	92				70 (70)	130 (125)	
3-Nitroaniline	1200	0	600	ug/Kg	50	*			70 (30)	130 (99)	
Acenaphthene	1200	0	1200	ug/Kg	100				70 (70)	130 (121)	
2,4-Dinitrophenol	2300	0	3100	ug/Kg	135				20 (10)	160 (155)	
4-Nitrophenol	2300	0	2300	ug/Kg	100				20 (45)	160 (133)	
Dibenzofuran	1200	0	1100	ug/Kg	92				70 (72)	130 (110)	
2,4-Dinitrotoluene	1200	0	1200	ug/Kg	100				70 (55)	130 (128)	
Diethylphthalate	1200	0	1100	ug/Kg	92				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1200	0	1100	ug/Kg	92				70 (71)	130 (108)	
Fluorene	1200	0	1100	ug/Kg	92				70 (68)	130 (116)	
4-Nitroaniline	1200	0	1100	ug/Kg	92				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1200	0	1700	ug/Kg	142	*			70 (10)	130 (160)	
N-Nitrosodiphenylamine	1200	0	1100	ug/Kg	92				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1200	0	1100	ug/Kg	92				70 (65)	130 (121)	
Hexachlorobenzene	1200	0	1100	ug/Kg	92				70 (67)	130 (118)	
Atrazine	1200	0	1300	ug/Kg	108				70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	2300	0	2200	ug/Kg	96				20 (47)	160 (128)	
Phenanthrene	1200	0	1100	ug/Kg	92				70 (52)	130 (128)	
Anthracene	1200	0	1100	ug/Kg	92				70 (62)	130 (124)	
Carbazole	1200	0	1000	ug/Kg	83				70 (59)	130 (119)	
Di-n-butylphthalate	1200	0	1100	ug/Kg	92				70 (69)	130 (118)	
Fluoranthene	1200	0	940	ug/Kg	78				70 (44)	130 (125)	
Pyrene	1200	0	1000	ug/Kg	83				70 (26)	130 (142)	
Butylbenzylphthalate	1200	0	1300	ug/Kg	108				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1200	0	690	ug/Kg	58	*			70 (33)	130 (116)	
Benzo(a)anthracene	1200	0	1100	ug/Kg	92				70 (71)	130 (114)	
Chrysene	1200	0	1100	ug/Kg	92				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1200	0	1500	ug/Kg	125				70 (42)	130 (169)	
Di-n-octyl phthalate	1200	0	1300	ug/Kg	108				70 (23)	130 (175)	
Benzo(b)fluoranthene	1200	0	1000	ug/Kg	83				70 (67)	130 (121)	
Benzo(k)fluoranthene	1200	0	1100	ug/Kg	92				70 (57)	130 (134)	
Benzo(a)pyrene	1200	0	1200	ug/Kg	100				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1200	0	990	ug/Kg	83				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1200	0	1000	ug/Kg	83				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1200	0	830	ug/Kg	69	*			70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1200	0	1100	ug/Kg	92				70 (69)	130 (124)	
1,4-Dioxane	1200	0	890	ug/Kg	74				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1200	0	1100	ug/Kg	92				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4561-05MSD		**Client Sample ID: BP-F-18MSD**						**DataFile: BF140106.D**			
Benzaldehyde	1200	0	280	ug/Kg	23		4		20 (10)	160 (86)	30 (20)
Phenol	1200	0	1100	ug/Kg	92		0		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1200	0	1000	ug/Kg	83		10		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1200	0	1100	ug/Kg	92		0		70 (79)	130 (107)	30 (20)
2-Methylphenol	1200	0	1000	ug/Kg	83		10		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1200	0	1000	ug/Kg	83		10		70 (65)	130 (110)	30 (20)
Acetophenone	1200	0	1000	ug/Kg	83		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1200	0	1000	ug/Kg	83		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1200	0	1000	ug/Kg	83		10		70 (59)	130 (119)	30 (20)
Hexachloroethane	1200	0	1100	ug/Kg	92		0		20 (65)	160 (117)	30 (20)
Nitrobenzene	1200	0	1000	ug/Kg	83		0		70 (70)	130 (119)	30 (20)
Isophorone	1200	0	1100	ug/Kg	92		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1200	0	1300	ug/Kg	108		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1200	0	1200	ug/Kg	100		0		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1200	0	1100	ug/Kg	92		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1200	0	1100	ug/Kg	92		0		70 (72)	130 (118)	30 (20)
Naphthalene	1200	0	1000	ug/Kg	83		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1200	0	270	ug/Kg	23	*	0		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1200	0	1100	ug/Kg	92		0		70 (66)	130 (114)	30 (20)
Caprolactam	1200	0	1100	ug/Kg	92		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1200	0	1100	ug/Kg	92		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1200	0	1100	ug/Kg	92		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	2300	0	3700	ug/Kg	161	*	5		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1200	0	1100	ug/Kg	92		0		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1200	0	1100	ug/Kg	92		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1200	0	1100	ug/Kg	92		0		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1200	0	1100	ug/Kg	92		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1200	0	1200	ug/Kg	100		0		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1200	0	1100	ug/Kg	92		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	1200	0	1100	ug/Kg	92		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1200	0	1100	ug/Kg	92		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1200	0	590	ug/Kg	49	*	2		70 (30)	130 (99)	30 (20)
Acenaphthene	1200	0	1200	ug/Kg	100		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	2300	0	3100	ug/Kg	135		0		20 (10)	160 (155)	30 (20)
4-Nitrophenol	2300	0	2300	ug/Kg	100		0		20 (45)	160 (133)	30 (20)
Dibenzofuran	1200	0	1100	ug/Kg	92		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1200	0	1200	ug/Kg	100		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	1200	0	1100	ug/Kg	92		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1200	0	1100	ug/Kg	92		0		70 (71)	130 (108)	30 (20)
Fluorene	1200	0	1100	ug/Kg	92		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1200	0	1100	ug/Kg	92		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1200	0	1700	ug/Kg	142	*	0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1200	0	1100	ug/Kg	92		0		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1200	0	1100	ug/Kg	92		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1200	0	1100	ug/Kg	92		0		70 (67)	130 (118)	30 (20)
Atrazine	1200	0	1300	ug/Kg	108		0		70 (79)	130 (127)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	2300	0	2100	ug/Kg	91		5		20 (47)	160 (128)	30 (20)
Phenanthrene	1200	0	1100	ug/Kg	92		0		70 (52)	130 (128)	30 (20)
Anthracene	1200	0	1100	ug/Kg	92		0		70 (62)	130 (124)	30 (20)
Carbazole	1200	0	1000	ug/Kg	83		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1200	0	1100	ug/Kg	92		0		70 (69)	130 (118)	30 (20)
Fluoranthene	1200	0	930	ug/Kg	78		0		70 (44)	130 (125)	30 (20)
Pyrene	1200	0	1000	ug/Kg	83		0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1200	0	1300	ug/Kg	108		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1200	0	730	ug/Kg	61	*	5		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1200	0	1100	ug/Kg	92		0		70 (71)	130 (114)	30 (20)
Chrysene	1200	0	1100	ug/Kg	92		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1200	0	1400	ug/Kg	117		7		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1200	0	1300	ug/Kg	108		0		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1200	0	1000	ug/Kg	83		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1200	0	1100	ug/Kg	92		0		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1200	0	1200	ug/Kg	100		0		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1200	0	970	ug/Kg	81		2		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1200	0	970	ug/Kg	81		2		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1200	0	810	ug/Kg	68	*	1		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1200	0	1100	ug/Kg	92		0		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1200	0	860	ug/Kg	72		3		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1200	0	1100	ug/Kg	92		0		70 (69)	130 (112)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BE101427.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164533BS	Benzaldehyde	50	11.3	ug/L	23				20 (10)	160 (162)	
	Phenol	50	53.6	ug/L	107				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	44.7	ug/L	89				70 (62)	130 (103)	
	2-Chlorophenol	50	51.9	ug/L	104				70 (70)	130 (117)	
	2-Methylphenol	50	49.8	ug/L	100				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	49.2	ug/L	98				70 (65)	130 (100)	
	Acetophenone	50	46.8	ug/L	94				70 (60)	130 (104)	
	3+4-Methylphenols	50	49.1	ug/L	98				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	47.2	ug/L	94				70 (57)	130 (107)	
	Hexachloroethane	50	47.3	ug/L	95				20 (76)	160 (118)	
	Nitrobenzene	50	45.9	ug/L	92				70 (58)	130 (106)	
	Isophorone	50	46.2	ug/L	92				70 (61)	130 (102)	
	2-Nitrophenol	50	50.7	ug/L	101				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	60.5	ug/L	121				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	47.8	ug/L	96				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	50.9	ug/L	102				70 (66)	130 (115)	
	Naphthalene	50	45.8	ug/L	92				70 (64)	130 (107)	
	4-Chloroaniline	50	33.1	ug/L	66		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	46.5	ug/L	93				70 (69)	130 (101)	
	Caprolactam	50	43.5	ug/L	87				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	45.1	ug/L	90				70 (65)	130 (114)	
	2-Methylnaphthalene	50	45.9	ug/L	92				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	200	ug/L	200		*		20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	52.0	ug/L	104				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	49.8	ug/L	100				70 (70)	130 (106)	
	1,1-Biphenyl	50	47.9	ug/L	96				70 (72)	130 (98)	
	2-Chloronaphthalene	50	47.3	ug/L	95				70 (59)	130 (106)	
	2-Nitroaniline	50	51.8	ug/L	104				70 (73)	130 (114)	
	Dimethylphthalate	50	47.7	ug/L	95				70 (64)	130 (103)	
	Acenaphthylene	50	51.2	ug/L	102				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	46.1	ug/L	92				70 (64)	130 (110)	
	3-Nitroaniline	50	37.3	ug/L	75				70 (28)	130 (100)	
	Acenaphthene	50	48.4	ug/L	97				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	82.1	ug/L	82				20 (36)	160 (166)	
	4-Nitrophenol	100	100	ug/L	100				20 (45)	160 (147)	
	Dibenzofuran	50	48.1	ug/L	96				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	48.6	ug/L	97				70 (60)	130 (115)	
	Diethylphthalate	50	47.4	ug/L	95				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	46.8	ug/L	94				70 (61)	130 (104)	
	Fluorene	50	47.2	ug/L	94				70 (64)	130 (107)	
	4-Nitroaniline	50	47.0	ug/L	94				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	48.1	ug/L	96				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	49.3	ug/L	99				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	47.3	ug/L	95				70 (73)	130 (103)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BE101427.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164533BS	Hexachlorobenzene	50	46.9	ug/L	94				70 (73)	130 (106)	
	Atrazine	50	61.2	ug/L	122				70 (76)	130 (120)	
	Pentachlorophenol	100	100	ug/L	100				20 (47)	160 (114)	
	Phenanthrene	50	49.7	ug/L	99				70 (62)	130 (109)	
	Anthracene	50	52.6	ug/L	105				70 (65)	130 (110)	
	Carbazole	50	48.6	ug/L	97				70 (62)	130 (106)	
	Di-n-butylphthalate	50	51.0	ug/L	102				70 (64)	130 (106)	
	Fluoranthene	50	48.9	ug/L	98				70 (64)	130 (110)	
	Pyrene	50	47.2	ug/L	94				70 (71)	130 (103)	
	Butylbenzylphthalate	50	49.1	ug/L	98				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	40.2	ug/L	80				70 (43)	130 (108)	
	Benzo(a)anthracene	50	50.1	ug/L	100				70 (62)	130 (107)	
	Chrysene	50	49.7	ug/L	99				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	52.7	ug/L	105				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	55.7	ug/L	111				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	47.3	ug/L	95				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	51.0	ug/L	102				70 (77)	130 (105)	
	Benzo(a)pyrene	50	52.9	ug/L	106				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	51.1	ug/L	102				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	51.4	ug/L	103				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	45.8	ug/L	92				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	49.1	ug/L	98				70 (72)	130 (101)	
	1,4-Dioxane	50	37.1	ug/L	74				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	50.8	ug/L	102				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BE101428.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164533BSD	Benzaldehyde	50	11.4	ug/L	23	1			20 (10)	160 (162)	20 (20)
	Phenol	50	53.6	ug/L	107	0			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	47.2	ug/L	94	5			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	51.8	ug/L	104	0			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	49.8	ug/L	100	0			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	48.6	ug/L	97	1			70 (65)	130 (100)	20 (20)
	Acetophenone	50	47.3	ug/L	95	1			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	49.5	ug/L	99	1			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	47.5	ug/L	95	1			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	47.0	ug/L	94	1			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	46.1	ug/L	92	0			70 (58)	130 (106)	20 (20)
	Isophorone	50	47.1	ug/L	94	2			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	51.2	ug/L	102	1			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	61.5	ug/L	123	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	48.4	ug/L	97	1			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	52.0	ug/L	104	2			70 (66)	130 (115)	20 (20)
	Naphthalene	50	45.9	ug/L	92	0			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	34.8	ug/L	70	5			70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	45.9	ug/L	92	1			70 (69)	130 (101)	20 (20)
	Caprolactam	50	46.3	ug/L	93	6			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	46.6	ug/L	93	3			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	46.7	ug/L	93	2			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	200	ug/L	200	0	*		20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	51.9	ug/L	104	0			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	50.0	ug/L	100	0			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	47.6	ug/L	95	1			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	46.7	ug/L	93	1			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	51.9	ug/L	104	0			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	48.3	ug/L	97	1			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	51.8	ug/L	104	1			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	46.7	ug/L	93	1			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	37.1	ug/L	74	1			70 (28)	130 (100)	20 (20)
	Acenaphthene	50	48.0	ug/L	96	1			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	84.6	ug/L	85	3			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	100	ug/L	100	0			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	48.2	ug/L	96	0			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	49.7	ug/L	99	2			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	47.6	ug/L	95	0			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	47.1	ug/L	94	1			70 (61)	130 (104)	20 (20)
	Fluorene	50	47.4	ug/L	95	0			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	47.1	ug/L	94	0			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	49.3	ug/L	99	2			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	49.7	ug/L	99	1			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	47.7	ug/L	95	1			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BE101428.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164533BSD	Hexachlorobenzene	50	46.9	ug/L	94	0			70 (73)	130 (106)	20 (20)
	Atrazine	50	61.4	ug/L	123	0			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	110	ug/L	110	10			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	50.0	ug/L	100	1			70 (62)	130 (109)	20 (20)
	Anthracene	50	52.9	ug/L	106	1			70 (65)	130 (110)	20 (20)
	Carbazole	50	49.1	ug/L	98	1			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	51.5	ug/L	103	1			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	48.8	ug/L	98	0			70 (64)	130 (110)	20 (20)
	Pyrene	50	46.5	ug/L	93	1			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	49.4	ug/L	99	1			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	40.7	ug/L	81	1			70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	49.9	ug/L	100	0			70 (62)	130 (107)	20 (20)
	Chrysene	50	49.1	ug/L	98	1			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	52.8	ug/L	106	0			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	55.2	ug/L	110	1			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	46.7	ug/L	93	1			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	51.1	ug/L	102	0			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	52.5	ug/L	105	1			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	51.1	ug/L	102	0			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	51.0	ug/L	102	1			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	45.6	ug/L	91	0			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	48.2	ug/L	96	2			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	39.0	ug/L	78	5			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	51.5	ug/L	103	1			70 (63)	130 (116)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140102.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164461BS	Benzaldehyde	1700	420	ug/Kg	25				20 (10)	160 (133)	
	Phenol	1700	1500	ug/Kg	88				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1500	ug/Kg	88				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1400	ug/Kg	82				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1400	ug/Kg	82				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1400	ug/Kg	82				70 (57)	130 (101)	
	Isophorone	1700	1500	ug/Kg	88				70 (59)	130 (99)	
	2-Nitrophenol	1700	1800	ug/Kg	106				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	550	ug/Kg	32		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1600	ug/Kg	94				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1500	ug/Kg	88				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	5600	ug/Kg	170		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1700	ug/Kg	100				70 (66)	130 (101)	
	Dimethylphthalate	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Acenaphthylene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	960	ug/Kg	56		*		70 (28)	130 (100)	
	Acenaphthene	1700	1700	ug/Kg	100				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	4300	ug/Kg	130				20 (37)	160 (128)	
	4-Nitrophenol	3300	3300	ug/Kg	100				20 (48)	160 (119)	
	Dibenzofuran	1700	1500	ug/Kg	88				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				70 (60)	130 (106)	
	Diethylphthalate	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				70 (58)	130 (98)	
	Fluorene	1700	1500	ug/Kg	88				70 (61)	130 (101)	
	4-Nitroaniline	1700	1700	ug/Kg	100				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	2200	ug/Kg	129				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140102.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164461BS	Hexachlorobenzene	1700	1500	ug/Kg	88				70 (64)	130 (98)	
	Atrazine	1700	1800	ug/Kg	106				70 (47)	130 (152)	
	Pentachlorophenol	3300	3100	ug/Kg	94				20 (67)	160 (105)	
	Phenanthrene	1700	1500	ug/Kg	88				70 (59)	130 (103)	
	Anthracene	1700	1600	ug/Kg	94				70 (61)	130 (105)	
	Carbazole	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				70 (58)	130 (104)	
	Fluoranthene	1700	1500	ug/Kg	88				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1900	ug/Kg	112				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)	
	Chrysene	1700	1500	ug/Kg	88				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	2000	ug/Kg	118				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1500	ug/Kg	88				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				70 (53)	130 (101)	
	1,4-Dioxane	1700	1100	ug/Kg	65				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (108)	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164461BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140101.D Lab Sample ID: PB164461BL

Instrument ID: BNA_F Date Extracted: 10/28/2024

Matrix: (soil/water) SOIL Date Analyzed: 10/29/2024

Level: (low/med) LOW Time Analyzed: 10:05

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164461BS	PB164461BS	BF140102.D	10/29/2024
WB-305-BOT	P4578-05	BF140110.D	10/29/2024
WB-305-BOT-1	P4578-07	BF140111.D	10/29/2024
WB-305-TOP-1	P4578-04	BF140125.D	10/29/2024
WB-305-TOP	P4578-03	BF140156.D	10/30/2024
BP-F-18MS	P4561-05MS	BF140105.D	10/29/2024
BP-F-18MSD	P4561-05MSD	BF140106.D	10/29/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164533BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: BE101426.D Lab Sample ID: PB164533BL

Instrument ID: BNA_E Date Extracted: 10/30/2024

Matrix: (soil/water) Water Date Analyzed: 10/31/2024

Level: (low/med) LOW Time Analyzed: 10:57

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164533BS	PB164533BS	BE101427.D	10/31/2024
PB164533BSD	PB164533BSD	BE101428.D	10/31/2024
WB-305-SW	P4578-01	BF140193.D	10/31/2024
WB-305-SW-1	P4578-02	BE101433.D	10/31/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BE101388.D DFTPP Injection Date: 10/28/2024

Instrument ID: BNA_E DFTPP Injection Time: 10:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	17.8
68	Less than 2.0% of mass 69	0.3 (1.5) 1
69	Mass 69 relative abundance	18.3
70	Less than 2.0% of mass 69	0.0 (0.1) 1
127	10.0 - 80.0% of mass 198	27.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	4
275	10.0 - 60.0% of mass 198	20
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	16.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	20.1 (20.1) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BE101389.D	10/28/2024	11:44
SSTDICC005	SSTDICC005	BE101390.D	10/28/2024	12:23
SSTDICC010	SSTDICC010	BE101391.D	10/28/2024	12:59
SSTDICC020	SSTDICC020	BE101392.D	10/28/2024	13:35
SSTDICCC040	SSTDICCC040	BE101393.D	10/28/2024	14:11
SSTDICC050	SSTDICC050	BE101394.D	10/28/2024	14:49
SSTDICC060	SSTDICC060	BE101395.D	10/28/2024	15:25
SSTDICC080	SSTDICC080	BE101396.D	10/28/2024	16:01

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BE101424.D DFTPP Injection Date: 10/31/2024

Instrument ID: BNA_E DFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	18.3
68	Less than 2.0% of mass 69	0.2 (0.8) 1
69	Mass 69 relative abundance	19.2
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	27
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	4.1
275	10.0 - 60.0% of mass 198	19.5
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	16.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (19.6) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BE101425.D	10/31/2024	10:18
PB164533BL	PB164533BL	BE101426.D	10/31/2024	10:57
PB164533BS	PB164533BS	BE101427.D	10/31/2024	11:33
PB164533BSD	PB164533BSD	BE101428.D	10/31/2024	12:09
WB-305-SW-1	P4578-02	BE101433.D	10/31/2024	15:14

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF139843.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	93.1
443	15.0 - 24.0% of mass 442	17.9 (19.2) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF139844.D	10/18/2024	10:27
SSTDICC005	SSTDICC005	BF139845.D	10/18/2024	10:55
SSTDICC010	SSTDICC010	BF139846.D	10/18/2024	11:23
SSTDICC020	SSTDICC020	BF139847.D	10/18/2024	11:52
SSTDICCC040	SSTDICCC040	BF139848.D	10/18/2024	12:20
SSTDICC050	SSTDICC050	BF139849.D	10/18/2024	12:49
SSTDICC060	SSTDICC060	BF139850.D	10/18/2024	13:17
SSTDICC080	SSTDICC080	BF139851.D	10/18/2024	13:46

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140099.D DFTPP Injection Date: 10/29/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.6
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	36
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	44.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140100.D	10/29/2024	09:37
PB164461BL	PB164461BL	BF140101.D	10/29/2024	10:05
PB164461BS	PB164461BS	BF140102.D	10/29/2024	10:33
BP-F-18MS	P4561-05MS	BF140105.D	10/29/2024	12:02
BP-F-18MSD	P4561-05MSD	BF140106.D	10/29/2024	12:30
WB-305-BOT	P4578-05	BF140110.D	10/29/2024	14:16
WB-305-BOT-1	P4578-07	BF140111.D	10/29/2024	14:42

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140112.D DFTPP Injection Date: 10/29/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.9
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	29.7
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	38.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.7
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140113.D	10/29/2024	16:01
WB-305-TOP-1	P4578-04	BF140125.D	10/29/2024	21:13

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140151.D DFTPP Injection Date: 10/30/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.9
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.4
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.1
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	93.9
443	15.0 - 24.0% of mass 442	17.9 (19.1) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140152.D	10/30/2024	12:50
WB-305-TOP	P4578-03	BF140156.D	10/30/2024	14:41

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140175.D DFTPP Injection Date: 10/31/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40
68	Less than 2.0% of mass 69	0.7 (2) 1
69	Mass 69 relative abundance	36.4
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	45.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140176.D	10/31/2024	09:22
WB-305-SW	P4578-01	BF140193.D	10/31/2024	17:01

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140199.D DFTPP Injection Date: 11/01/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.9
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	98.8
443	15.0 - 24.0% of mass 442	19.3 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140200.D	11/01/2024	09:22
WB-305-SWRE	P4578-01RE	BF140206.D	11/01/2024	12:07
WB-305-SW-1RE	P4578-02RE	BF140207.D	11/01/2024	12:33

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BE101425.D Time Analyzed: 10:18

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	136647	7.573	695845	10.34	498092	14.18
	UPPER LIMIT	273294	8.073	1391690	10.84	996184	14.683
	LOWER LIMIT	68323.5	7.073	347923	9.84	249046	13.683
	EPA SAMPLE NO.						
01	PB164533BL	111412	7.57	479387	10.34	322455	14.18
02	PB164533BS	115147	7.57	538934	10.34	360623	14.18
03	WB-305-SW-1	150057	7.57	662069	10.34	470146	14.18
04	PB164533BSD	113034	7.57	526465	10.34	360052	14.18

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BE101425.D Time Analyzed: 10:18

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1107610	16.915	1206960	21.081	1484760	23.366
	UPPER LIMIT	2215220	17.415	2413920	21.581	2969520	23.866
	LOWER LIMIT	553805	16.415	603480	20.581	742380	22.866
	EPA SAMPLE NO.						
01	PB164533BL	764639	16.92	978042	21.08	1302950	23.36
02	PB164533BS	814107	16.92	960075	21.08	1281360	23.37
03	WB-305-SW-1	1206170	16.91	1598010	21.07	2061050	23.36
04	PB164533BSD	812601	16.92	969385	21.08	1285880	23.36

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140100.D Time Analyzed: 09:37

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	138305	6.893	518016	8.18	286088	9.93
	UPPER LIMIT	276610	7.393	1036030	8.675	572176	10.428
	LOWER LIMIT	69152.5	6.393	259008	7.675	143044	9.428
	EPA SAMPLE NO.						
01	PB164461BL	132334	6.89	522078	8.17	293840	9.92
02	PB164461BS	127430	6.89	500801	8.17	278385	9.93
03	BP-F-18MS	119078	6.89	468695	8.17	258838	9.93
04	BP-F-18MSD	121800	6.89	465155	8.17	256664	9.93
05	WB-305-BOT	120686	6.89	473213	8.17	267166	9.92
06	WB-305-BOT-1	122139	6.89	478188	8.17	267029	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140100.D Time Analyzed: 09:37

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	513809	11.416	264357	14.051	264628	15.527
	UPPER LIMIT	1027620	11.916	528714	14.551	529256	16.027
	LOWER LIMIT	256905	10.916	132179	13.551	132314	15.027
	EPA SAMPLE NO.						
01	PB164461BL	532374	11.41	353787	14.05	265432	15.53
02	PB164461BS	513541	11.42	266065	14.05	256361	15.53
03	BP-F-18MS	443678	11.42	213800	14.05	269959	15.53
04	BP-F-18MSD	439821	11.42	211408	14.05	270997	15.53
05	WB-305-BOT	461039	11.41	224689	14.06	271519	15.55
06	WB-305-BOT-1	461723	11.41	225154	14.06	268509	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140113.D Time Analyzed: 16:01

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	154336	6.892	582321	8.18	326390	9.93
	UPPER LIMIT	308672	7.392	1164640	8.675	652780	10.428
	LOWER LIMIT	77168	6.392	291161	7.675	163195	9.428
	EPA SAMPLE NO.						
01	WB-305-TOP-1	121877	6.89	473789	8.17	240944	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140113.D Time Analyzed: 16:01

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	563401	11.416	296186	14.074	329400	15.592
	UPPER LIMIT	1126800	11.916	592372	14.574	658800	16.092
	LOWER LIMIT	281701	10.916	148093	13.574	164700	15.092
	EPA SAMPLE NO.						
01	WB-305-TOP-1	345918	11.41	236214	14.05	244867	15.55

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/30/2024

Lab File ID: BF140152.D Time Analyzed: 12:50

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	120224	6.887	456321	8.17	257889	9.93
	UPPER LIMIT	240448	7.387	912642	8.669	515778	10.428
	LOWER LIMIT	60112	6.387	228161	7.669	128945	9.428
	EPA SAMPLE NO.						
01	WB-305-TOP	110861	6.88	423380	8.16	224222	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/30/2024

Lab File ID: BF140152.D Time Analyzed: 12:50

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	475664	11.416	284421	14.068	273128	15.574
	UPPER LIMIT	951328	11.916	568842	14.568	546256	16.074
	LOWER LIMIT	237832	10.916	142211	13.568	136564	15.074
	EPA SAMPLE NO.						
01	WB-305-TOP	363381	11.42	172346	14.07	220971	15.58

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BF140176.D Time Analyzed: 09:22

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	122098	6.886	468668	8.17	269255	9.93
	UPPER LIMIT	244196	7.386	937336	8.669	538510	10.433
	LOWER LIMIT	61049	6.386	234334	7.669	134628	9.433
	EPA SAMPLE NO.						
01	WB-305-SW	185491	6.89	676798	8.16	334897	9.93

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BF140176.D Time Analyzed: 09:22

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	495112	11.427	315081	14.098	256770	15.627
	UPPER LIMIT	990224	11.927	630162	14.598	513540	16.127
	LOWER LIMIT	247556	10.927	157541	13.598	128385	15.127
	EPA SAMPLE NO.						
01	WB-305-SW	527934	11.42	330677	14.07	264306	15.57

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	147950	6.887	577069	8.17	331720	9.93
	UPPER LIMIT	295900	7.387	1154140	8.669	663440	10.428
	LOWER LIMIT	73975	6.387	288535	7.669	165860	9.428
	EPA SAMPLE NO.						
01	WB-305-SWRE	221542	6.88	874676	8.16	496865	9.92
02	WB-305-SW-1RE	186612	6.88	733188	8.16	415849	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	606919	11.422	388668	14.08	308087	15.58
	UPPER LIMIT	1213840	11.922	777336	14.58	616174	16.08
	LOWER LIMIT	303460	10.922	194334	13.58	154044	15.08
	EPA SAMPLE NO.						
01	WB-305-SWRE	893182	11.42	535712	14.07	445221	15.57
02	WB-305-SW-1RE	750159	11.42	460215	14.07	381772	15.58

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BL	SDG No.:	P4578
Lab Sample ID:	PB164461BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.9	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	83.0	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	170	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.4	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	95.0	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BL	SDG No.:	P4578
Lab Sample ID:	PB164461BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.5	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.4	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.6	U	81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	85.0	U	85.0	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	77.3	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.3	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	170	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91.0	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BL	SDG No.:	P4578
Lab Sample ID:	PB164461BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		30 (18) - 130 (112)	79%	SPK: 150
13127-88-3	Phenol-d6	116		30 (15) - 130 (107)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.7		30 (18) - 130 (107)	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.0		30 (20) - 130 (109)	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		30 (10) - 130 (116)	90%	SPK: 150
1718-51-0	Terphenyl-d14	81.7		30 (10) - 130 (105)	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	132000	6.887			
1146-65-2	Naphthalene-d8	522000	8.169			
15067-26-2	Acenaphthene-d10	294000	9.922			
1517-22-2	Phenanthrene-d10	532000	11.41			
1719-03-5	Chrysene-d12	354000	14.045			
1520-96-3	Perylene-d12	265000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	91.0	J		2.26	ug/Kg
000111-06-8	Hexadecanoic acid, butyl ester	89.6	J		12.8	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB164461BL			SDG No.:	P4578
Lab Sample ID:	PB164461BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BL	SDG No.:	P4578
Lab Sample ID:	PB164533BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101426.D	1	10/30/24 08:50	10/31/24 10:57	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BL	SDG No.:	P4578
Lab Sample ID:	PB164533BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101426.D	1	10/30/24 08:50	10/31/24 10:57	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BL	SDG No.:	P4578
Lab Sample ID:	PB164533BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101426.D	1	10/30/24 08:50	10/31/24 10:57	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	160		15 (10) - 110 (139)	107%	SPK: 150
13127-88-3	Phenol-d6	148		15 (10) - 110 (134)	99%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.4		30 (49) - 130 (133)	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	104		30 (52) - 130 (132)	104%	SPK: 100
118-79-6	2,4,6-Tribromophenol	150		15 (44) - 110 (137)	100%	SPK: 150
1718-51-0	Terphenyl-d14	89.9		30 (48) - 130 (125)	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	7.567			
1146-65-2	Naphthalene-d8	479000	10.34			
15067-26-2	Acenaphthene-d10	322000	14.177			
1517-22-2	Phenanthrene-d10	765000	16.915			
1719-03-5	Chrysene-d12	978000	21.075			
1520-96-3	Perylene-d12	1300000	23.361			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BS	SDG No.:	P4578
Lab Sample ID:	PB164461BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140102.D	1	10/28/24 09:00	10/29/24 10:33	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	420		180	330	ug/Kg
108-95-2	Phenol	1500		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1500		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1500		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.8	170	ug/Kg
98-86-2	Acetophenone	1400		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.7	170	ug/Kg
78-59-1	Isophorone	1500		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1800		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		75.4	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	550		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1500		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5600	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1700		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1500		81.6	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BS	SDG No.:	P4578
Lab Sample ID:	PB164461BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140102.D	1	10/28/24 09:00	10/29/24 10:33	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	960		89.1	170	ug/Kg
83-32-9	Acenaphthene	1700		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4300	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3300	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1500		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		85.5	170	ug/Kg
86-73-7	Fluorene	1500		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1700		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2200		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		84.9	170	ug/Kg
1912-24-9	Atrazine	1800		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3100	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1500		83.9	170	ug/Kg
120-12-7	Anthracene	1600		84.3	170	ug/Kg
86-74-8	Carbazole	1500		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
129-00-0	Pyrene	1600		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1900		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.6	170	ug/Kg
218-01-9	Chrysene	1500		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		81.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BS	SDG No.:	P4578
Lab Sample ID:	PB164461BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140102.D	1	10/28/24 09:00	10/29/24 10:33	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1100		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	122		30 (18) - 130 (112)	81%	SPK: 150
13127-88-3	Phenol-d6	119		30 (15) - 130 (107)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.1		30 (18) - 130 (107)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.6		30 (20) - 130 (109)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	144		30 (10) - 130 (116)	96%	SPK: 150
1718-51-0	Terphenyl-d14	100		30 (10) - 130 (105)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.887			
1146-65-2	Naphthalene-d8	501000	8.169			
15067-26-2	Acenaphthene-d10	278000	9.928			
1517-22-2	Phenanthrene-d10	514000	11.416			
1719-03-5	Chrysene-d12	266000	14.051			
1520-96-3	Perylene-d12	256000	15.527			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BS	SDG No.:	P4578
Lab Sample ID:	PB164533BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101427.D	1	10/30/24 08:50	10/31/24 11:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	11.3		4.00	10.0	ug/L
108-95-2	Phenol	53.6		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	44.7		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	51.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	49.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	49.2		1.40	5.00	ug/L
98-86-2	Acetophenone	46.8		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	49.1		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	47.2		1.50	2.50	ug/L
67-72-1	Hexachloroethane	47.3		1.00	5.00	ug/L
98-95-3	Nitrobenzene	45.9		1.30	5.00	ug/L
78-59-1	Isophorone	46.2		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	50.7		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	60.5		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	47.8		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	50.9		0.88	5.00	ug/L
91-20-3	Naphthalene	45.8		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	33.1		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.5		1.30	5.00	ug/L
105-60-2	Caprolactam	43.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	45.1		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.9		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	200	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	52.0		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.8		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.9		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	47.3		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.8		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	47.7		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BS	SDG No.:	P4578
Lab Sample ID:	PB164533BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101427.D	1	10/30/24 08:50	10/31/24 11:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	51.2		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	46.1		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	37.3		1.40	5.00	ug/L
83-32-9	Acenaphthene	48.4		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	82.1	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	48.1		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	48.6		1.50	5.00	ug/L
84-66-2	Diethylphthalate	47.4		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	46.8		0.98	5.00	ug/L
86-73-7	Fluorene	47.2		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	47.0		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.1		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.3		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	47.3		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.9		1.10	5.00	ug/L
1912-24-9	Atrazine	61.2		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	49.7		0.89	5.00	ug/L
120-12-7	Anthracene	52.6		1.10	5.00	ug/L
86-74-8	Carbazole	48.6		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	48.9		1.30	5.00	ug/L
129-00-0	Pyrene	47.2		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	49.1		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	40.2		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	50.1		0.94	5.00	ug/L
218-01-9	Chrysene	49.7		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	52.7		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	55.7		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	47.3		1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BS	SDG No.:	P4578
Lab Sample ID:	PB164533BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101427.D	1	10/30/24 08:50	10/31/24 11:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	51.0		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	52.9		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	51.1		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	51.4		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	45.8		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	49.1		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	37.1		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	50.8		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	154		15 (10) - 110 (139)	102%	SPK: 150
13127-88-3	Phenol-d6	139		15 (10) - 110 (134)	92%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.2		30 (49) - 130 (133)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.5		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		15 (44) - 110 (137)	92%	SPK: 150
1718-51-0	Terphenyl-d14	86.8		30 (48) - 130 (125)	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	115000	7.571			
1146-65-2	Naphthalene-d8	539000	10.339			
15067-26-2	Acenaphthene-d10	361000	14.181			
1517-22-2	Phenanthrene-d10	814000	16.919			
1719-03-5	Chrysene-d12	960000	21.079			
1520-96-3	Perylene-d12	1280000	23.365			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BSD	SDG No.:	P4578
Lab Sample ID:	PB164533BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101428.D	1	10/30/24 08:50	10/31/24 12:09	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	11.4		4.00	10.0	ug/L
108-95-2	Phenol	53.6		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	47.2		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	51.8		0.71	5.00	ug/L
95-48-7	2-Methylphenol	49.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	48.6		1.40	5.00	ug/L
98-86-2	Acetophenone	47.3		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	49.5		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	47.5		1.50	2.50	ug/L
67-72-1	Hexachloroethane	47.0		1.00	5.00	ug/L
98-95-3	Nitrobenzene	46.1		1.30	5.00	ug/L
78-59-1	Isophorone	47.1		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	51.2		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	61.5		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.4		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	52.0		0.88	5.00	ug/L
91-20-3	Naphthalene	45.9		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	34.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.9		1.30	5.00	ug/L
105-60-2	Caprolactam	46.3		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	46.6		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	46.7		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	200	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	51.9		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.6		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	46.7		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.9		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	48.3		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BSD	SDG No.:	P4578
Lab Sample ID:	PB164533BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101428.D	1	10/30/24 08:50	10/31/24 12:09	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	51.8		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	46.7		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	37.1		1.40	5.00	ug/L
83-32-9	Acenaphthene	48.0		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	84.6	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	48.2		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.7		1.50	5.00	ug/L
84-66-2	Diethylphthalate	47.6		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	47.1		0.98	5.00	ug/L
86-73-7	Fluorene	47.4		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	47.1		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	49.3		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.7		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	47.7		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.9		1.10	5.00	ug/L
1912-24-9	Atrazine	61.4		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	50.0		0.89	5.00	ug/L
120-12-7	Anthracene	52.9		1.10	5.00	ug/L
86-74-8	Carbazole	49.1		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.5		1.50	5.00	ug/L
206-44-0	Fluoranthene	48.8		1.30	5.00	ug/L
129-00-0	Pyrene	46.5		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	49.4		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	40.7		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	49.9		0.94	5.00	ug/L
218-01-9	Chrysene	49.1		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	52.8		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	55.2		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	46.7		1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BSD	SDG No.:	P4578
Lab Sample ID:	PB164533BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101428.D	1	10/30/24 08:50	10/31/24 12:09	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	51.1		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	52.5		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	51.1		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	51.0		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	45.6		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	48.2		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.0		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	51.5		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	154		15 (10) - 110 (139)	103%	SPK: 150
13127-88-3	Phenol-d6	140		15 (10) - 110 (134)	93%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.8		30 (49) - 130 (133)	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.2		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	139		15 (44) - 110 (137)	93%	SPK: 150
1718-51-0	Terphenyl-d14	86.4		30 (48) - 130 (125)	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	113000	7.569			
1146-65-2	Naphthalene-d8	526000	10.337			
15067-26-2	Acenaphthene-d10	360000	14.179			
1517-22-2	Phenanthrene-d10	813000	16.917			
1719-03-5	Chrysene-d12	969000	21.077			
1520-96-3	Perylene-d12	1290000	23.363			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MS	SDG No.:	P4578
Lab Sample ID:	P4561-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140105.D	1	10/28/24 09:00	10/29/24 12:02	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	290		130	230	ug/Kg
108-95-2	Phenol	1100		57.9	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		58.5	120	ug/Kg
95-57-8	2-Chlorophenol	1100		58.3	120	ug/Kg
95-48-7	2-Methylphenol	1100		56.3	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		63.5	120	ug/Kg
98-86-2	Acetophenone	1000		60.7	120	ug/Kg
65794-96-9	3+4-Methylphenols	1000		55.7	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1100		28.1	55.9	ug/Kg
67-72-1	Hexachloroethane	1100		58.0	120	ug/Kg
98-95-3	Nitrobenzene	1000		63.4	120	ug/Kg
78-59-1	Isophorone	1100		59.1	120	ug/Kg
88-75-5	2-Nitrophenol	1300		66.0	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1200		65.1	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		59.9	120	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		52.7	120	ug/Kg
91-20-3	Naphthalene	1000		57.7	120	ug/Kg
106-47-8	4-Chloroaniline	280		57.7	120	ug/Kg
87-68-3	Hexachlorobutadiene	1100		58.2	120	ug/Kg
105-60-2	Caprolactam	1100		60.6	230	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		54.1	120	ug/Kg
91-57-6	2-Methylnaphthalene	1100		57.6	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3900	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1100		49.9	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1100		51.7	120	ug/Kg
92-52-4	1,1-Biphenyl	1100		61.0	120	ug/Kg
91-58-7	2-Chloronaphthalene	1100		58.2	120	ug/Kg
88-74-4	2-Nitroaniline	1200		66.4	120	ug/Kg
131-11-3	Dimethylphthalate	1100		57.1	120	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MS	SDG No.:	P4578
Lab Sample ID:	P4561-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140105.D	1	10/28/24 09:00	10/29/24 12:02	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		60.4	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		58.1	120	ug/Kg
99-09-2	3-Nitroaniline	600		62.3	120	ug/Kg
83-32-9	Acenaphthene	1200		56.6	120	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	2300	E	81.0	230	ug/Kg
132-64-9	Dibenzofuran	1100		59.0	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1200		60.2	120	ug/Kg
84-66-2	Diethylphthalate	1100		55.9	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		59.8	120	ug/Kg
86-73-7	Fluorene	1100		59.7	120	ug/Kg
100-01-6	4-Nitroaniline	1100		74.7	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		81.7	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1100		57.0	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1100		55.1	120	ug/Kg
118-74-1	Hexachlorobenzene	1100		59.4	120	ug/Kg
1912-24-9	Atrazine	1300		63.8	120	ug/Kg
87-86-5	Pentachlorophenol	2200	E	54.0	230	ug/Kg
85-01-8	Phenanthrene	1100		58.7	120	ug/Kg
120-12-7	Anthracene	1100		59.0	120	ug/Kg
86-74-8	Carbazole	1000		56.1	120	ug/Kg
84-74-2	Di-n-butylphthalate	1100		58.9	120	ug/Kg
206-44-0	Fluoranthene	940		57.1	120	ug/Kg
129-00-0	Pyrene	1000		58.0	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.6	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	690		68.9	230	ug/Kg
56-55-3	Benzo(a)anthracene	1100		56.4	120	ug/Kg
218-01-9	Chrysene	1100		55.5	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		63.6	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		76.8	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		56.6	120	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MS	SDG No.:	P4578
Lab Sample ID:	P4561-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140105.D	1	10/28/24 09:00	10/29/24 12:02	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1100		57.7	120	ug/Kg
50-32-8	Benzo(a)pyrene	1200		65.0	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	990		54.5	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000		56.7	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	830		55.9	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1100		60.6	120	ug/Kg
123-91-1	1,4-Dioxane	890		76.8	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1100		52.2	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.2		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	90.3		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.8		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.7		30 (20) - 130 (109)	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		30 (10) - 130 (116)	70%	SPK: 150
1718-51-0	Terphenyl-d14	66.3		30 (10) - 130 (105)	66%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	119000	6.887			
1146-65-2	Naphthalene-d8	469000	8.169			
15067-26-2	Acenaphthene-d10	259000	9.928			
1517-22-2	Phenanthrene-d10	444000	11.416			
1719-03-5	Chrysene-d12	214000	14.051			
1520-96-3	Perylene-d12	270000	15.527			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MSD	SDG No.:	P4578
Lab Sample ID:	P4561-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140106.D	1	10/28/24 09:00	10/29/24 12:30	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	280		130	230	ug/Kg
108-95-2	Phenol	1100		57.9	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1000		58.5	120	ug/Kg
95-57-8	2-Chlorophenol	1100		58.3	120	ug/Kg
95-48-7	2-Methylphenol	1000		56.3	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000		63.5	120	ug/Kg
98-86-2	Acetophenone	1000		60.7	120	ug/Kg
65794-96-9	3+4-Methylphenols	1000		55.8	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1000		28.2	55.9	ug/Kg
67-72-1	Hexachloroethane	1100		58.0	120	ug/Kg
98-95-3	Nitrobenzene	1000		63.4	120	ug/Kg
78-59-1	Isophorone	1100		59.1	120	ug/Kg
88-75-5	2-Nitrophenol	1300		66.0	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1200		65.1	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		60.0	120	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		52.8	120	ug/Kg
91-20-3	Naphthalene	1000		57.7	120	ug/Kg
106-47-8	4-Chloroaniline	270		57.7	120	ug/Kg
87-68-3	Hexachlorobutadiene	1100		58.2	120	ug/Kg
105-60-2	Caprolactam	1100		60.7	230	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		54.2	120	ug/Kg
91-57-6	2-Methylnaphthalene	1100		57.6	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3700	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1100		49.9	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1100		51.7	120	ug/Kg
92-52-4	1,1-Biphenyl	1100		61.1	120	ug/Kg
91-58-7	2-Chloronaphthalene	1100		58.2	120	ug/Kg
88-74-4	2-Nitroaniline	1200		66.4	120	ug/Kg
131-11-3	Dimethylphthalate	1100		57.1	120	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MSD	SDG No.:	P4578
Lab Sample ID:	P4561-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140106.D	1	10/28/24 09:00	10/29/24 12:30	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		60.4	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		58.1	120	ug/Kg
99-09-2	3-Nitroaniline	590		62.3	120	ug/Kg
83-32-9	Acenaphthene	1200		56.7	120	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	2300	E	81.1	230	ug/Kg
132-64-9	Dibenzofuran	1100		59.0	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1200		60.2	120	ug/Kg
84-66-2	Diethylphthalate	1100		56.0	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		59.8	120	ug/Kg
86-73-7	Fluorene	1100		59.7	120	ug/Kg
100-01-6	4-Nitroaniline	1100		74.8	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		81.8	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1100		57.0	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1100		55.1	120	ug/Kg
118-74-1	Hexachlorobenzene	1100		59.4	120	ug/Kg
1912-24-9	Atrazine	1300		63.9	120	ug/Kg
87-86-5	Pentachlorophenol	2100	E	54.0	230	ug/Kg
85-01-8	Phenanthrene	1100		58.7	120	ug/Kg
120-12-7	Anthracene	1100		59.0	120	ug/Kg
86-74-8	Carbazole	1000		56.1	120	ug/Kg
84-74-2	Di-n-butylphthalate	1100		58.9	120	ug/Kg
206-44-0	Fluoranthene	930		57.1	120	ug/Kg
129-00-0	Pyrene	1000		58.0	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.6	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	730		68.9	230	ug/Kg
56-55-3	Benzo(a)anthracene	1100		56.4	120	ug/Kg
218-01-9	Chrysene	1100		55.6	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		63.6	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		76.9	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		56.7	120	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MSD	SDG No.:	P4578
Lab Sample ID:	P4561-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140106.D	1	10/28/24 09:00	10/29/24 12:30	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1100		57.7	120	ug/Kg
50-32-8	Benzo(a)pyrene	1200		65.0	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	970		54.6	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	970		56.7	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	810		56.0	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1100		60.7	120	ug/Kg
123-91-1	1,4-Dioxane	860		76.9	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1100		52.2	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	84.4		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	87.1		30 (15) - 130 (107)	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.6		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.8		30 (20) - 130 (109)	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	103		30 (10) - 130 (116)	69%	SPK: 150
1718-51-0	Terphenyl-d14	64.7		30 (10) - 130 (105)	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.892			
1146-65-2	Naphthalene-d8	465000	8.169			
15067-26-2	Acenaphthene-d10	257000	9.927			
1517-22-2	Phenanthrene-d10	440000	11.416			
1719-03-5	Chrysene-d12	211000	14.051			
1520-96-3	Perylene-d12	271000	15.527			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_E

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BE101389.D 5 =BE101390.D 10 =BE101391.D 20 =BE101392.D 40 =BE101393.D 50 =BE101394.D 60 =BE101395.D 80 =BE1013
96.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.471	0.463	0.454	0.421	0.400	0.392	0.379	0.426	8.76
3)		Pyridine		1.064	1.123	1.255	1.196	1.252	1.287	1.252	1.204	6.80
4)		n-Nitrosodimet...		0.459	0.440	0.454	0.479	0.473	0.488	0.468	0.466	3.45
5)	S	2-Fluorophenol		1.134	1.073	1.142	1.153	1.143	1.187	1.155	1.141	3.03
6)		Aniline		1.059	1.262	1.529	1.346	1.301	1.224	0.767	1.213	19.92
7)	S	Phenol-d6		1.450	1.475	1.558	1.629	1.594	1.727	1.643	1.582	6.15
8)		2-Chlorophenol		1.335	1.305	1.371	1.403	1.369	1.426	1.371	1.369	2.94
9)		Benzaldehyde		0.793	0.849	0.861	0.807	0.678	0.595		0.764	13.74
10)	C	Phenol		1.488	1.456	1.766	1.826	1.797	1.914	1.769	1.717	10.16
11)		bis(2-Chloroet...		1.513	1.401	1.245	1.477	1.322	1.408	1.492	1.408	6.93
12)		1,3-Dichlorobe...		1.563	1.523	1.508	1.488	1.424	1.443	1.382	1.476	4.25
13)	C	1,4-Dichlorobe...		1.624	1.534	1.546	1.505	1.447	1.484	1.409	1.507	4.66
14)		1,2-Dichlorobe...		1.553	1.488	1.502	1.490	1.433	1.472	1.388	1.475	3.56
15)		Benzyl Alcohol		0.704	0.797	0.979	1.061	1.013	1.059	0.990	0.943	14.61
16)		2,2'-oxybis(1-...		1.840	1.857	1.816	1.794	1.711	1.746	1.642	1.772	4.33
17)		2-Methylphenol		1.038	1.078	1.142	1.217	1.181	1.263	1.215	1.162	6.96
18)		Hexachloroethane		0.497	0.486	0.492	0.497	0.495	0.496	0.481	0.492	1.28
19)	P	n-Nitroso-di-n...	0.807	0.900	1.060	1.081	1.150	1.115	1.185	1.102	1.050	12.35
20)		3+4-Methylphenols		1.364	1.500	1.580	1.685	1.646	1.778	1.674	1.604	8.53
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.427	0.447	0.467	0.481	0.449	0.462	0.446	0.454	3.79
23)	S	Nitrobenzene-d5		0.292	0.306	0.325	0.336	0.323	0.331	0.316	0.318	4.78
24)		Nitrobenzene		0.315	0.325	0.349	0.355	0.339	0.350	0.339	0.339	4.26
25)		Isophorone		0.533	0.601	0.624	0.665	0.639	0.655	0.632	0.621	7.13
26)	C	2-Nitrophenol		0.127	0.141	0.162	0.179	0.175	0.182	0.181	0.164	13.41
27)		2,4-Dimethylph...		0.196	0.194	0.207	0.215	0.206	0.215	0.211	0.206	4.19
28)		bis(2-Chloroet...		0.351	0.378	0.388	0.392	0.374	0.385	0.370	0.377	3.65
29)	C	2,4-Dichloroph...		0.257	0.268	0.285	0.297	0.287	0.305	0.297	0.285	6.00
30)		1,2,4-Trichlor...		0.325	0.311	0.315	0.314	0.304	0.307	0.299	0.311	2.71
31)		Naphthalene		1.092	1.040	1.039	1.045	0.982	0.999	0.936	1.019	5.00
32)		Benzoic acid			0.091	0.145	0.196	0.203	0.223	0.234	0.182	29.71
33)		4-Chloroaniline		0.321	0.355	0.373	0.398	0.364	0.365	0.305	0.354	8.87
34)	C	Hexachlorobuta...		0.193	0.185	0.187	0.187	0.179	0.180	0.176	0.184	3.26
35)		Caprolactam		0.077	0.093	0.109	0.119	0.118	0.126	0.124	0.109	16.48
36)	C	4-Chloro-3-met...		0.277	0.314	0.321	0.341	0.330	0.347	0.343	0.325	7.51
37)		2-Methylnaphth...		0.753	0.752	0.736	0.756	0.711	0.736	0.696	0.734	3.12
38)		1-Methylnaphth...		0.750	0.756	0.735	0.751	0.709	0.733	0.696	0.733	3.08

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.522	0.493	0.515	0.512	0.491	0.499	0.481	0.502	2.96
41)	P	Hexachlorocycl...	0.153	0.150	0.179	0.177	0.173	0.168	0.162	0.166	6.85
42)	S	2,4,6-Tribromo...	0.329	0.341	0.358	0.366	0.355	0.359	0.346	0.351	3.59
43)	C	2,4,6-Trichlor...	0.310	0.325	0.352	0.369	0.353	0.360	0.353	0.346	6.01
44)		2,4,5-Trichlor...	0.356	0.372	0.401	0.415	0.402	0.418	0.411	0.396	5.93
45)	S	2-Fluorobiphenyl	1.359	1.275	1.283	1.226	1.114	1.072	0.938	1.181	12.39
46)		1,1'-Biphenyl	1.477	1.399	1.431	1.408	1.326	1.326	1.224	1.370	6.15
47)		2-Chloronaphth...	1.159	1.091	1.112	1.098	1.054	1.060	1.002	1.083	4.60
48)		2-Nitroaniline	0.214	0.243	0.295	0.318	0.318	0.329	0.322	0.291	15.45
49)		Acenaphthylene	1.613	1.605	1.656	1.677	1.586	1.597	1.473	1.601	4.07
50)		Dimethylphthalate	1.446	1.469	1.459	1.449	1.378	1.383	1.298	1.412	4.38
51)		2,6-Dinitrotol...	0.284	0.309	0.331	0.345	0.333	0.346	0.334	0.326	6.77
52)	C	Acenaphthene	1.120	1.080	1.073	1.075	1.016	1.017	0.936	1.045	5.79
53)		3-Nitroaniline	0.266	0.296	0.342	0.357	0.347	0.345	0.315	0.324	10.25
54)	P	2,4-Dinitrophenol		0.125	0.177	0.208	0.219	0.230	0.231	0.198	20.84
55)		Dibenzofuran	1.828	1.739	1.721	1.695	1.604	1.608	1.468	1.666	7.02
56)	P	4-Nitrophenol		0.219	0.291	0.311	0.318	0.324	0.318	0.297	13.34
57)		2,4-Dinitrotol...	0.344	0.407	0.454	0.481	0.480	0.495	0.481	0.449	12.18
58)		Fluorene	1.490	1.450	1.446	1.453	1.354	1.342	1.222	1.394	6.71
59)		2,3,4,6-Tetrac...	0.345	0.355	0.368	0.382	0.367	0.378	0.369	0.366	3.48
60)		Diethylphthalate	1.499	1.532	1.560	1.535	1.456	1.427	1.327	1.477	5.47
61)		4-Chlorophenyl...	0.737	0.713	0.705	0.707	0.676	0.673	0.631	0.692	5.05
62)		4-Nitroaniline	0.267	0.316	0.374	0.391	0.393	0.394	0.389	0.361	13.79
63)		Azobenzene	1.280	1.309	1.331	1.319	1.248	1.245	1.154	1.269	4.80
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.086	0.108	0.123	0.125	0.131	0.133	0.118	15.15
66)	c	n-Nitrosodiphe...	0.542	0.548	0.545	0.553	0.516	0.520	0.489	0.530	4.33
67)		4-Bromophenyl-...	0.211	0.207	0.209	0.215	0.208	0.215	0.209	0.210	1.48
68)		Hexachlorobenzene	0.283	0.272	0.274	0.283	0.271	0.278	0.269	0.276	2.01
69)		Atrazine	0.182	0.179	0.160	0.184	0.109			0.163	19.39
70)	C	Pentachlorophenol	0.116	0.137	0.159	0.173	0.172	0.177	0.177	0.159	14.86
71)		Phenanthrene	1.068	1.023	1.012	0.991	0.912	0.896	0.801	0.958	9.62
72)		Anthracene	1.002	0.972	0.997	0.979	0.909	0.893	0.793	0.935	8.08
73)		Carbazole	1.010	0.987	1.033	0.995	0.939	0.914	0.820	0.957	7.62
74)		Di-n-butylphth...	1.018	1.088	1.221	1.136	1.058	0.985	0.867	1.053	10.73
75)	C	Fluoranthene	1.320	1.268	1.306	1.199	1.102	1.043	0.903	1.163	13.27
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.236	0.285	0.253	0.347	0.228	0.198	0.230	0.254	19.22
78)		Pyrene	1.176	1.206	1.184	1.174	1.052	1.016	0.890	1.100	10.69
79)	S	Terphenyl-d14	1.036	1.023	0.970	0.841	0.686	0.657		0.869	19.31
80)		Butylbenzylpht...	0.443	0.467	0.515	0.510	0.494	0.490	0.455	0.482	5.73
81)		Benzo(a)anthra...	1.277	1.238	1.243	1.174	1.047	1.010	0.879	1.124	13.18
82)		3,3'-Dichlorob...	0.404	0.438	0.470	0.481	0.450	0.444	0.396	0.440	7.11
83)		Chrysene	1.266	1.225	1.201	1.110	1.005	0.962	0.838	1.087	14.51
84)		Bis(2-ethylhex...	0.550	0.608	0.705	0.698	0.672	0.659	0.591	0.641	9.15
85)	c	Di-n-octyl pht...	0.987	1.057	1.209	1.137	1.053	1.032	0.883	1.051	9.92

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.390	1.352	1.390	1.394	1.315	1.315	1.214	1.338	4.83
88)		Benzo(b)fluora...	1.076	1.113	1.100	1.110	1.023	1.000	0.873	1.042	8.29
89)		Benzo(k)fluora...	1.126	1.042	1.087	1.015	0.897	0.875	0.774	0.974	13.13
90)	C	Benzo(a)pyrene	0.935	0.933	0.961	0.966	0.899	0.890	0.796	0.912	6.37
91)		Dibenzo(a,h)an...	1.130	1.125	1.169	1.170	1.089	1.083	0.977	1.106	6.00
92)		Benzo(g,h,i)pe...	1.162	1.130	1.155	1.179	1.125	1.152	1.075	1.140	2.98

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF1398
51.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.581	0.548	0.596	5.74
3)		Pyridine		1.622	1.570	1.522	1.504	1.386	1.406	1.326	1.476	7.26
4)		n-Nitrosodimet...		0.815	0.800	0.799	0.806	0.782	0.794	0.757	0.793	2.39
5)	S	2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.186	1.106	1.278	10.10
6)		Aniline		1.673	1.649	1.618	1.582	1.471	1.479	1.324	1.542	8.05
7)	S	Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.539	1.432	1.655	10.06
8)		2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.221	1.116	1.306	10.24
9)		Benzaldehyde			1.137	1.042	0.940	0.873	0.853	0.740	0.931	15.22
10)	C	Phenol		1.952	1.832	1.760	1.712	1.583	1.601	1.502	1.706	9.19
11)		bis(2-Chloroet...		1.470	1.423	1.359	1.294	1.251	1.249	1.183	1.319	7.82
12)		1,3-Dichlorobe...		1.718	1.656	1.544	1.499	1.392	1.391	1.294	1.499	10.19
13)	C	1,4-Dichlorobe...		1.723	1.641	1.558	1.487	1.392	1.391	1.291	1.498	10.19
14)		1,2-Dichlorobe...		1.660	1.579	1.478	1.379	1.273	1.267	1.149	1.398	13.15
15)		Benzyl Alcohol		1.355	1.299	1.257	1.213	1.154	1.146	1.071	1.214	8.07
16)		2,2'-oxybis(1-...		2.524	2.409	2.353	2.255	2.117	2.115	1.964	2.248	8.69
17)		2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.063	1.004	1.114	7.69
18)		Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.511	0.477	0.534	7.06
19)	P	n-Nitroso-di-n...	1.105	1.141	1.066	1.025	0.974	0.921	0.927	0.869	1.004	9.63
20)		3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.300	1.173	1.424	12.41
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.578	0.533	0.516	0.481	0.452	0.454	0.414	0.490	11.43
23)	S	Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.357	0.342	0.361	2.92
24)		Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.388	0.370	0.396	4.10
25)		Isophorone		0.755	0.709	0.702	0.679	0.652	0.660	0.637	0.685	5.90
26)	C	2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.161	0.157	0.149	9.22
27)		2,4-Dimethylph...		0.285	0.259	0.256	0.248	0.237	0.234	0.223	0.249	8.07
28)		bis(2-Chloroet...		0.468	0.440	0.432	0.412	0.394	0.390	0.369	0.415	8.22
29)	C	2,4-Dichloroph...		0.308	0.297	0.293	0.283	0.272	0.274	0.257	0.283	6.17
30)		1,2,4-Trichlor...		0.351	0.331	0.325	0.315	0.298	0.298	0.279	0.314	7.68
31)		Naphthalene		1.209	1.121	1.091	1.023	0.958	0.944	0.875	1.031	11.23
32)		Benzoic acid			0.175	0.207	0.220	0.231	0.235	0.235	0.217	10.69
33)		4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.326	0.306	0.352	9.26
34)	C	Hexachlorobuta...		0.224	0.206	0.203	0.197	0.185	0.187	0.177	0.197	7.96
35)		Caprolactam		0.092	0.092	0.092	0.092	0.088	0.088	0.086	0.090	2.85
36)	C	4-Chloro-3-met...		0.341	0.328	0.324	0.315	0.299	0.303	0.287	0.314	6.03
37)		2-Methylnaphth...		0.740	0.689	0.666	0.621	0.587	0.583	0.537	0.632	11.11
38)		1-Methylnaphth...		0.726	0.683	0.655	0.612	0.569	0.567	0.526	0.620	11.55

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.579	0.562	0.537	0.512	0.506	0.472	0.540	8.72
41)	P	Hexachlorocycl...	0.185	0.193	0.198	0.198	0.186	0.185	0.169	0.188	5.28
42)	S	2,4,6-Tribromo...	0.201	0.196	0.193	0.188	0.179	0.180	0.173	0.187	5.47
43)	C	2,4,6-Trichlor...	0.405	0.382	0.400	0.387	0.363	0.383	0.354	0.382	4.80
44)		2,4,5-Trichlor...	0.426	0.425	0.398	0.401	0.381	0.369	0.359	0.394	6.58
45)	S	2-Fluorobiphenyl	1.512	1.396	1.280	1.162	1.088	1.060	0.973	1.210	16.05
46)		1,1'-Biphenyl	1.640	1.536	1.483	1.379	1.285	1.262	1.161	1.392	12.18
47)		2-Chloronaphth...	1.288	1.225	1.164	1.111	1.048	1.040	0.973	1.121	9.95
48)		2-Nitroaniline	0.299	0.318	0.353	0.365	0.354	0.362	0.349	0.343	7.20
49)		Acenaphthylene	1.854	1.756	1.717	1.615	1.507	1.505	1.394	1.621	10.06
50)		Dimethylphthalate	1.410	1.344	1.283	1.237	1.172	1.163	1.110	1.246	8.60
51)		2,6-Dinitrotol...	0.256	0.266	0.278	0.280	0.273	0.274	0.260	0.270	3.41
52)	C	Acenaphthene	1.200	1.136	1.089	1.044	0.977	0.983	0.913	1.049	9.55
53)		3-Nitroaniline	0.270	0.275	0.296	0.292	0.276	0.282	0.256	0.278	4.84
54)	P	2,4-Dinitrophenol		0.056	0.077	0.101	0.101	0.113	0.112	0.093	23.89
55)		Dibenzofuran	1.767	1.659	1.579	1.486	1.389	1.375	1.278	1.505	11.52
56)	P	4-Nitrophenol	0.187	0.207	0.225	0.232	0.219	0.220	0.208	0.214	6.84
57)		2,4-Dinitrotol...	0.280	0.314	0.337	0.356	0.344	0.351	0.338	0.332	7.94
58)		Fluorene	1.409	1.309	1.201	1.110	1.029	1.021	0.944	1.146	14.68
59)		2,3,4,6-Tetrac...	0.334	0.322	0.326	0.310	0.296	0.293	0.281	0.309	6.33
60)		Diethylphthalate	1.366	1.308	1.267	1.214	1.165	1.161	1.080	1.223	7.99
61)		4-Chlorophenyl...	0.698	0.638	0.617	0.569	0.526	0.520	0.484	0.579	13.14
62)		4-Nitroaniline	0.249	0.259	0.270	0.275	0.263	0.269	0.254	0.263	3.65
63)		Azobenzene	1.459	1.385	1.355	1.306	1.216	1.212	1.143	1.297	8.62
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.055	0.072	0.087	0.090	0.092	0.093	0.082	18.60
66)	c	n-Nitrosodiphe...	0.672	0.641	0.621	0.595	0.568	0.561	0.533	0.599	8.14
67)		4-Bromophenyl-...	0.230	0.217	0.211	0.202	0.197	0.196	0.189	0.206	6.98
68)		Hexachlorobenzene	0.258	0.245	0.237	0.231	0.217	0.221	0.212	0.232	7.20
69)		Atrazine	0.189	0.175	0.156	0.175	0.135	0.153	0.151	0.162	11.36
70)	C	Pentachlorophenol	0.118	0.137	0.148	0.152	0.145	0.144	0.140	0.141	8.04
71)		Phenanthrene	1.121	1.035	0.994	0.933	0.863	0.860	0.807	0.945	11.79
72)		Anthracene	1.082	1.014	0.972	0.913	0.851	0.833	0.787	0.922	11.53
73)		Carbazole	1.002	0.964	0.923	0.846	0.776	0.772	0.717	0.857	12.64
74)		Di-n-butylphth...	1.104	1.071	1.062	1.014	0.923	0.909	0.850	0.990	9.77
75)	C	Fluoranthene	1.149	1.108	1.036	0.943	0.842	0.835	0.772	0.955	15.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.457	0.461	0.293	0.366	0.276	0.203	0.246	0.329	30.86
78)		Pyrene	1.892	1.828	1.900	1.805	1.685	1.649	1.496	1.751	8.43
79)	S	Terphenyl-d14	1.381	1.335	1.340	1.244	1.154	1.121	1.018	1.227	10.96
80)		Butylbenzylpht...	0.490	0.513	0.536	0.555	0.535	0.531	0.514	0.525	3.99
81)		Benzo(a)anthra...	1.425	1.355	1.329	1.331	1.267	1.237	1.169	1.302	6.48
82)		3,3'-Dichlorob...	0.368	0.372	0.390	0.387	0.374	0.382	0.384	0.380	2.15
83)		Chrysene	1.325	1.244	1.234	1.167	1.134	1.151	1.101	1.194	6.52
84)		Bis(2-ethylhex...	0.520	0.539	0.577	0.626	0.620	0.626	0.614	0.589	7.48
85)	c	Di-n-octyl pht...		0.786	0.930	1.135	1.182	1.207	1.186	1.071	16.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.261	1.307	1.352	1.299	1.326	1.253	1.287	3.77
88)		Benzo(b)fluora...	1.317	1.240	1.319	1.196	1.105	1.239	1.111	1.218	7.15
89)		Benzo(k)fluora...	1.213	1.177	0.992	1.066	1.030	0.929	0.947	1.051	10.42
90)	C	Benzo(a)pyrene	1.030	1.024	1.018	1.025	0.974	0.999	0.947	1.002	3.12
91)		Dibenzo(a,h)an...	1.021	1.064	1.103	1.120	1.083	1.085	1.036	1.073	3.31
92)		Benzo(g,h,i)pe...	1.030	1.046	1.090	1.128	1.081	1.095	1.035	1.072	3.37

(#) = Out of Range

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_E Calibration Date/Time: 10/31/2024 10:18

Lab File ID: BE101425.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.141	1.094		-4.1	
Benzaldehyde	0.764	0.817		6.9	
Phenol-d6	1.582	1.584		0.1	
Phenol	1.717	1.778		3.6	20.0
bis(2-Chloroethyl)ether	1.408	1.294		-8.1	
2-Chlorophenol	1.369	1.362		-0.5	
2-Methylphenol	1.162	1.178		1.4	
2,2-oxybis(1-Chloropropane)	1.772	1.839		3.8	
Acetophenone	0.454	0.457		0.7	
3+4-Methylphenols	1.604	1.682		4.9	
n-Nitroso-di-n-propylamine	1.050	1.180	0.050	12.4	
Nitrobenzene-d5	0.318	0.320		0.6	
Hexachloroethane	0.492	0.501		1.8	
Nitrobenzene	0.339	0.338		-0.3	
Isophorone	0.621	0.640		3.1	
2-Nitrophenol	0.164	0.173		5.5	20.0
2,4-Dimethylphenol	0.206	0.203		-1.5	
bis(2-Chloroethoxy)methane	0.377	0.389		3.2	
2,4-Dichlorophenol	0.285	0.290		1.8	20.0
Naphthalene	1.019	0.988		-3.0	
4-Chloroaniline	0.354	0.381		7.6	
Hexachlorobutadiene	0.184	0.184		0.0	20.0
Caprolactam	0.109	0.107		-1.8	
4-Chloro-3-methylphenol	0.325	0.324		-0.3	20.0
2-Methylnaphthalene	0.734	0.728		-0.8	
Hexachlorocyclopentadiene	0.166	0.178	0.050	7.2	
2,4,6-Trichlorophenol	0.346	0.354		2.3	20.0
2-Fluorobiphenyl	1.181	1.186		0.4	
2,4,5-Trichlorophenol	0.396	0.394		-0.5	
1,1-Biphenyl	1.370	1.351		-1.4	
2-Chloronaphthalene	1.083	1.070		-1.2	
2-Nitroaniline	0.291	0.305		4.8	
Dimethylphthalate	1.412	1.382		-2.1	
Acenaphthylene	1.601	1.590		-0.7	
2,6-Dinitrotoluene	0.326	0.322		-1.2	
3-Nitroaniline	0.324	0.337		4.0	
Acenaphthene	1.045	1.022		-2.2	20.0
2,4-Dinitrophenol	0.198	0.196	0.050	-1.0	
4-Nitrophenol	0.297	0.276	0.050	-7.1	

Form VII SV-1

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_E Calibration Date/Time: 10/31/2024 10:18

Lab File ID: BE101425.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.666	1.622		-2.6	
2,4-Dinitrotoluene	0.449	0.453		0.9	
Diethylphthalate	1.477	1.447		-2.0	
4-Chlorophenyl-phenylether	0.692	0.689		-0.4	
Fluorene	1.394	1.372		-1.6	
4-Nitroaniline	0.361	0.361		0.0	
4,6-Dinitro-2-methylphenol	0.118	0.121		2.5	
n-Nitrosodiphenylamine	0.530	0.534		0.8	20.0
2,4,6-Tribromophenol	0.351	0.354		0.9	
4-Bromophenyl-phenylether	0.210	0.215		2.4	
Hexachlorobenzene	0.276	0.278		0.7	
Atrazine	0.163	0.162		-0.6	
Pentachlorophenol	0.159	0.171		7.5	20.0
Phenanthrene	0.958	0.952		-0.6	
Anthracene	0.935	0.944		1.0	
Carbazole	0.957	0.950		-0.7	
Di-n-butylphthalate	1.053	1.131		7.4	
Fluoranthene	1.163	1.164		0.1	20.0
Pyrene	1.100	1.121		1.9	
Terphenyl-d14	0.869	0.814		-6.3	
Butylbenzylphthalate	0.482	0.510		5.8	
3,3-Dichlorobenzidine	0.440	0.469		6.6	
Benzo(a)anthracene	1.124	1.135		1.0	
Chrysene	1.087	1.082		-0.5	
Bis(2-ethylhexyl)phthalate	0.641	0.711		10.9	
Di-n-octyl phthalate	1.051	1.156		10.0	20.0
Benzo(b)fluoranthene	1.042	1.047		0.5	
Benzo(k)fluoranthene	0.974	1.007		3.4	
Benzo(a)pyrene	0.912	0.929		1.9	20.0
Indeno(1,2,3-cd)pyrene	1.338	1.335		-0.2	
Dibenzo(a,h)anthracene	1.106	1.121		1.4	
Benzo(g,h,i)perylene	1.140	1.126		-1.2	
1,2,4,5-Tetrachlorobenzene	0.502	0.502		0.0	
1,4-Dioxane	0.426	0.376		-11.7	20.0
2,3,4,6-Tetrachlorophenol	0.366	0.367		0.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 09:37

Lab File ID: BF140100.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.231		-3.7	
Benzaldehyde	0.931	0.890		-4.4	
Phenol-d6	1.655	1.553		-6.2	
Phenol	1.706	1.612		-5.5	20.0
bis(2-Chloroethyl)ether	1.319	1.262		-4.3	
2-Chlorophenol	1.306	1.256		-3.8	
2-Methylphenol	1.114	1.060		-4.8	
2,2-oxybis(1-Chloropropane)	2.248	2.041		-9.2	
Acetophenone	0.490	0.474		-3.3	
3+4-Methylphenols	1.424	1.345		-5.5	
n-Nitroso-di-n-propylamine	1.004	0.914	0.050	-9.0	
Nitrobenzene-d5	0.361	0.382		5.8	
Hexachloroethane	0.534	0.535		0.2	
Nitrobenzene	0.396	0.400		1.0	
Isophorone	0.685	0.661		-3.5	
2-Nitrophenol	0.149	0.175		17.5	20.0
2,4-Dimethylphenol	0.249	0.232		-6.8	
bis(2-Chloroethoxy)methane	0.415	0.398		-4.1	
2,4-Dichlorophenol	0.283	0.280		-1.1	20.0
Naphthalene	1.031	1.010		-2.0	
4-Chloroaniline	0.352	0.331		-6.0	
Hexachlorobutadiene	0.197	0.203		3.0	20.0
Caprolactam	0.090	0.090		0.0	
4-Chloro-3-methylphenol	0.314	0.310		-1.3	20.0
2-Methylnaphthalene	0.632	0.616		-2.5	
Hexachlorocyclopentadiene	0.188	0.193	0.050	2.7	
2,4,6-Trichlorophenol	0.382	0.376		-1.6	20.0
2-Fluorobiphenyl	1.210	1.180		-2.5	
2,4,5-Trichlorophenol	0.394	0.411		4.3	
1,1-Biphenyl	1.392	1.364		-2.0	
2-Chloronaphthalene	1.121	1.108		-1.2	
2-Nitroaniline	0.343	0.385		12.2	
Dimethylphthalate	1.246	1.227		-1.5	
Acenaphthylene	1.621	1.605		-1.0	
2,6-Dinitrotoluene	0.270	0.295		9.3	
3-Nitroaniline	0.278	0.297		6.8	
Acenaphthene	1.049	1.061		1.1	20.0
2,4-Dinitrophenol	0.093	0.155	0.050	66.7	
4-Nitrophenol	0.214	0.236	0.050	10.3	

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 09:37

Lab File ID: BF140100.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.476		-1.9	
2,4-Dinitrotoluene	0.332	0.388		16.9	
Diethylphthalate	1.223	1.207		-1.3	
4-Chlorophenyl-phenylether	0.579	0.583		0.7	
Fluorene	1.146	1.132		-1.2	
4-Nitroaniline	0.263	0.293		11.4	
4,6-Dinitro-2-methylphenol	0.082	0.119		45.1	
n-Nitrosodiphenylamine	0.599	0.566		-5.5	20.0
2,4,6-Tribromophenol	0.187	0.203		8.6	
4-Bromophenyl-phenylether	0.206	0.207		0.5	
Hexachlorobenzene	0.232	0.232		0.0	
Atrazine	0.162	0.160		-1.2	
Pentachlorophenol	0.141	0.154		9.2	20.0
Phenanthrene	0.945	0.913		-3.4	
Anthracene	0.922	0.902		-2.2	
Carbazole	0.857	0.840		-2.0	
Di-n-butylphthalate	0.990	1.010		2.0	
Fluoranthene	0.955	0.943		-1.3	20.0
Pyrene	1.751	1.837		4.9	
Terphenyl-d14	1.227	1.284		4.6	
Butylbenzylphthalate	0.525	0.589		12.2	
3,3-Dichlorobenzidine	0.380	0.407		7.1	
Benzo(a)anthracene	1.302	1.341		3.0	
Chrysene	1.194	1.129		-5.4	
Bis(2-ethylhexyl)phthalate	0.589	0.667		13.2	
Di-n-octyl phthalate	1.071	1.049		-2.1	20.0
Benzo(b)fluoranthene	1.218	1.185		-2.7	
Benzo(k)fluoranthene	1.051	1.034		-1.6	
Benzo(a)pyrene	1.002	0.999		-0.3	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.323		2.8	
Dibenzo(a,h)anthracene	1.073	1.086		1.2	
Benzo(g,h,i)perylene	1.072	1.142		6.5	
1,2,4,5-Tetrachlorobenzene	0.540	0.549		1.7	
1,4-Dioxane	0.596	0.537		-9.9	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.316		2.3	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 16:01

Lab File ID: BF140113.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.205		-5.7	
Benzaldehyde	0.931	0.974		4.6	
Phenol-d6	1.655	1.537		-7.1	
Phenol	1.706	1.605		-5.9	20.0
bis(2-Chloroethyl)ether	1.319	1.266		-4.0	
2-Chlorophenol	1.306	1.245		-4.7	
2-Methylphenol	1.114	1.067		-4.2	
2,2-oxybis(1-Chloropropane)	2.248	2.083		-7.3	
Acetophenone	0.490	0.470		-4.1	
3+4-Methylphenols	1.424	1.318		-7.4	
n-Nitroso-di-n-propylamine	1.004	0.946	0.050	-5.8	
Nitrobenzene-d5	0.361	0.383		6.1	
Hexachloroethane	0.534	0.545		2.1	
Nitrobenzene	0.396	0.402		1.5	
Isophorone	0.685	0.680		-0.7	
2-Nitrophenol	0.149	0.181		21.5	20.0
2,4-Dimethylphenol	0.249	0.233		-6.4	
bis(2-Chloroethoxy)methane	0.415	0.408		-1.7	
2,4-Dichlorophenol	0.283	0.282		-0.4	20.0
Naphthalene	1.031	1.010		-2.0	
4-Chloroaniline	0.352	0.329		-6.5	
Hexachlorobutadiene	0.197	0.207		5.1	20.0
Caprolactam	0.090	0.091		1.1	
4-Chloro-3-methylphenol	0.314	0.318		1.3	20.0
2-Methylnaphthalene	0.632	0.625		-1.1	
Hexachlorocyclopentadiene	0.188	0.190	0.050	1.1	
2,4,6-Trichlorophenol	0.382	0.377		-1.3	20.0
2-Fluorobiphenyl	1.210	1.189		-1.7	
2,4,5-Trichlorophenol	0.394	0.416		5.6	
1,1-Biphenyl	1.392	1.372		-1.4	
2-Chloronaphthalene	1.121	1.104		-1.5	
2-Nitroaniline	0.343	0.381		11.1	
Dimethylphthalate	1.246	1.264		1.4	
Acenaphthylene	1.621	1.599		-1.4	
2,6-Dinitrotoluene	0.270	0.296		9.6	
3-Nitroaniline	0.278	0.292		5.0	
Acenaphthene	1.049	1.075		2.5	20.0
2,4-Dinitrophenol	0.093	0.159	0.050	71.0	
4-Nitrophenol	0.214	0.221	0.050	3.3	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 16:01

Lab File ID: BF140113.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.480		-1.7	
2,4-Dinitrotoluene	0.332	0.389		17.2	
Diethylphthalate	1.223	1.260		3.0	
4-Chlorophenyl-phenylether	0.579	0.591		2.1	
Fluorene	1.146	1.142		-0.3	
4-Nitroaniline	0.263	0.285		8.4	
4,6-Dinitro-2-methylphenol	0.082	0.125		52.4	
n-Nitrosodiphenylamine	0.599	0.594		-0.8	20.0
2,4,6-Tribromophenol	0.187	0.205		9.6	
4-Bromophenyl-phenylether	0.206	0.220		6.8	
Hexachlorobenzene	0.232	0.242		4.3	
Atrazine	0.162	0.161		-0.6	
Pentachlorophenol	0.141	0.155		9.9	20.0
Phenanthrene	0.945	0.912		-3.5	
Anthracene	0.922	0.902		-2.2	
Carbazole	0.857	0.799		-6.8	
Di-n-butylphthalate	0.990	1.023		3.3	
Fluoranthene	0.955	0.899		-5.9	20.0
Pyrene	1.751	1.679		-4.1	
Terphenyl-d14	1.227	1.209		-1.5	
Butylbenzylphthalate	0.525	0.610		16.2	
3,3-Dichlorobenzidine	0.380	0.442		16.3	
Benzo(a)anthracene	1.302	1.290		-0.9	
Chrysene	1.194	1.183		-0.9	
Bis(2-ethylhexyl)phthalate	0.589	0.782		32.8	
Di-n-octyl phthalate	1.071	1.324		23.6	20.0
Benzo(b)fluoranthene	1.218	1.164		-4.4	
Benzo(k)fluoranthene	1.051	1.021		-2.9	
Benzo(a)pyrene	1.002	0.991		-1.1	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.296		0.7	
Dibenzo(a,h)anthracene	1.073	1.071		-0.2	
Benzo(g,h,i)perylene	1.072	1.091		1.8	
1,2,4,5-Tetrachlorobenzene	0.540	0.552		2.2	
1,4-Dioxane	0.596	0.528		-11.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.322		4.2	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/30/2024 12:50

Lab File ID: BF140152.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.251		-2.1	
Benzaldehyde	0.931	0.947		1.7	
Phenol-d6	1.655	1.614		-2.5	
Phenol	1.706	1.677		-1.7	20.0
bis(2-Chloroethyl)ether	1.319	1.299		-1.5	
2-Chlorophenol	1.306	1.283		-1.8	
2-Methylphenol	1.114	1.110		-0.4	
2,2-oxybis(1-Chloropropane)	2.248	2.246		-0.1	
Acetophenone	0.490	0.493		0.6	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.987	0.050	-1.7	
Nitrobenzene-d5	0.361	0.403		11.6	
Hexachloroethane	0.534	0.572		7.1	
Nitrobenzene	0.396	0.423		6.8	
Isophorone	0.685	0.698		1.9	
2-Nitrophenol	0.149	0.185		24.2	20.0
2,4-Dimethylphenol	0.249	0.243		-2.4	
bis(2-Chloroethoxy)methane	0.415	0.422		1.7	
2,4-Dichlorophenol	0.283	0.293		3.5	20.0
Naphthalene	1.031	1.048		1.6	
4-Chloroaniline	0.352	0.314		-10.8	
Hexachlorobutadiene	0.197	0.215		9.1	20.0
Caprolactam	0.090	0.098		8.9	
4-Chloro-3-methylphenol	0.314	0.326		3.8	20.0
2-Methylnaphthalene	0.632	0.653		3.3	
Hexachlorocyclopentadiene	0.188	0.206	0.050	9.6	
2,4,6-Trichlorophenol	0.382	0.410		7.3	20.0
2-Fluorobiphenyl	1.210	1.261		4.2	
2,4,5-Trichlorophenol	0.394	0.412		4.6	
1,1-Biphenyl	1.392	1.428		2.6	
2-Chloronaphthalene	1.121	1.150		2.6	
2-Nitroaniline	0.343	0.410		19.5	
Dimethylphthalate	1.246	1.313		5.4	
Acenaphthylene	1.621	1.674		3.3	
2,6-Dinitrotoluene	0.270	0.307		13.7	
3-Nitroaniline	0.278	0.308		10.8	
Acenaphthene	1.049	1.117		6.5	20.0
2,4-Dinitrophenol	0.093	0.172	0.050	84.9	
4-Nitrophenol	0.214	0.253	0.050	18.2	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/30/2024 12:50

Lab File ID: BF140152.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.543		2.5	
2,4-Dinitrotoluene	0.332	0.413		24.4	
Diethylphthalate	1.223	1.315		7.5	
4-Chlorophenyl-phenylether	0.579	0.612		5.7	
Fluorene	1.146	1.194		4.2	
4-Nitroaniline	0.263	0.320		21.7	
4,6-Dinitro-2-methylphenol	0.082	0.127		54.9	
n-Nitrosodiphenylamine	0.599	0.585		-2.3	20.0
2,4,6-Tribromophenol	0.187	0.210		12.3	
4-Bromophenyl-phenylether	0.206	0.210		1.9	
Hexachlorobenzene	0.232	0.236		1.7	
Atrazine	0.162	0.168		3.7	
Pentachlorophenol	0.141	0.161		14.2	20.0
Phenanthrene	0.945	0.948		0.3	
Anthracene	0.922	0.924		0.2	
Carbazole	0.857	0.875		2.1	
Di-n-butylphthalate	0.990	1.081		9.2	
Fluoranthene	0.955	1.004		5.1	20.0
Pyrene	1.751	1.697		-3.1	
Terphenyl-d14	1.227	1.240		1.1	
Butylbenzylphthalate	0.525	0.670		27.6	
3,3-Dichlorobenzidine	0.380	0.419		10.3	
Benzo(a)anthracene	1.302	1.276		-2.0	
Chrysene	1.194	1.259		5.4	
Bis(2-ethylhexyl)phthalate	0.589	0.876		48.7	
Di-n-octyl phthalate	1.071	1.375		28.4	20.0
Benzo(b)fluoranthene	1.218	1.180		-3.1	
Benzo(k)fluoranthene	1.051	1.187		12.9	
Benzo(a)pyrene	1.002	1.048		4.6	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.326		3.0	
Dibenzo(a,h)anthracene	1.073	1.091		1.7	
Benzo(g,h,i)perylene	1.072	1.109		3.5	
1,2,4,5-Tetrachlorobenzene	0.540	0.571		5.7	
1,4-Dioxane	0.596	0.546		-8.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.334		8.1	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/31/2024 09:22

Lab File ID: BF140176.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.261		-1.3	
Benzaldehyde	0.931	0.943		1.3	
Phenol-d6	1.655	1.625		-1.8	
Phenol	1.706	1.682		-1.4	20.0
bis(2-Chloroethyl)ether	1.319	1.315		-0.3	
2-Chlorophenol	1.306	1.312		0.5	
2-Methylphenol	1.114	1.121		0.6	
2,2-oxybis(1-Chloropropane)	2.248	2.100		-6.6	
Acetophenone	0.490	0.486		-0.8	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.981	0.050	-2.3	
Nitrobenzene-d5	0.361	0.403		11.6	
Hexachloroethane	0.534	0.570		6.7	
Nitrobenzene	0.396	0.418		5.6	
Isophorone	0.685	0.693		1.2	
2-Nitrophenol	0.149	0.187		25.5	20.0
2,4-Dimethylphenol	0.249	0.239		-4.0	
bis(2-Chloroethoxy)methane	0.415	0.421		1.4	
2,4-Dichlorophenol	0.283	0.294		3.9	20.0
Naphthalene	1.031	1.044		1.3	
4-Chloroaniline	0.352	0.314		-10.8	
Hexachlorobutadiene	0.197	0.214		8.6	20.0
Caprolactam	0.090	0.096		6.7	
4-Chloro-3-methylphenol	0.314	0.333		6.1	20.0
2-Methylnaphthalene	0.632	0.660		4.4	
Hexachlorocyclopentadiene	0.188	0.185	0.050	-1.6	
2,4,6-Trichlorophenol	0.382	0.385		0.8	20.0
2-Fluorobiphenyl	1.210	1.231		1.7	
2,4,5-Trichlorophenol	0.394	0.424		7.6	
1,1-Biphenyl	1.392	1.403		0.8	
2-Chloronaphthalene	1.121	1.141		1.8	
2-Nitroaniline	0.343	0.398		16.0	
Dimethylphthalate	1.246	1.337		7.3	
Acenaphthylene	1.621	1.626		0.3	
2,6-Dinitrotoluene	0.270	0.305		13.0	
3-Nitroaniline	0.278	0.312		12.2	
Acenaphthene	1.049	1.115		6.3	20.0
2,4-Dinitrophenol	0.093	0.171	0.050	83.9	
4-Nitrophenol	0.214	0.249	0.050	16.4	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/31/2024 09:22

Lab File ID: BF140176.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.519		0.9	
2,4-Dinitrotoluene	0.332	0.413		24.4	
Diethylphthalate	1.223	1.309		7.0	
4-Chlorophenyl-phenylether	0.579	0.613		5.9	
Fluorene	1.146	1.217		6.2	
4-Nitroaniline	0.263	0.326		24.0	
4,6-Dinitro-2-methylphenol	0.082	0.130		58.5	
n-Nitrosodiphenylamine	0.599	0.593		-1.0	20.0
2,4,6-Tribromophenol	0.187	0.215		15.0	
4-Bromophenyl-phenylether	0.206	0.214		3.9	
Hexachlorobenzene	0.232	0.237		2.2	
Atrazine	0.162	0.170		4.9	
Pentachlorophenol	0.141	0.157		11.3	20.0
Phenanthrene	0.945	0.952		0.7	
Anthracene	0.922	0.929		0.8	
Carbazole	0.857	0.884		3.2	
Di-n-butylphthalate	0.990	1.111		12.2	
Fluoranthene	0.955	1.036		8.5	20.0
Pyrene	1.751	1.635		-6.6	
Terphenyl-d14	1.227	1.195		-2.6	
Butylbenzylphthalate	0.525	0.676		28.8	
3,3-Dichlorobenzidine	0.380	0.430		13.2	
Benzo(a)anthracene	1.302	1.320		1.4	
Chrysene	1.194	1.225		2.6	
Bis(2-ethylhexyl)phthalate	0.589	0.900		52.8	
Di-n-octyl phthalate	1.071	1.388		29.6	20.0
Benzo(b)fluoranthene	1.218	1.432		17.6	
Benzo(k)fluoranthene	1.051	1.079		2.7	
Benzo(a)pyrene	1.002	1.042		4.0	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.176		-8.6	
Dibenzo(a,h)anthracene	1.073	0.977		-8.9	
Benzo(g,h,i)perylene	1.072	0.971		-9.4	
1,2,4,5-Tetrachlorobenzene	0.540	0.566		4.8	
1,4-Dioxane	0.596	0.510		-14.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.326		5.5	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.245		-2.7	
Benzaldehyde	0.931	0.962		3.3	
Phenol-d6	1.655	1.646		-0.5	
Phenol	1.706	1.707		0.1	20.0
bis(2-Chloroethyl)ether	1.319	1.336		1.3	
2-Chlorophenol	1.306	1.308		0.2	
2-Methylphenol	1.114	1.140		2.3	
2,2-oxybis(1-Chloropropane)	2.248	2.316		3.0	
Acetophenone	0.490	0.483		-1.4	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.996	0.050	-0.8	
Nitrobenzene-d5	0.361	0.401		11.1	
Hexachloroethane	0.534	0.561		5.1	
Nitrobenzene	0.396	0.419		5.8	
Isophorone	0.685	0.699		2.0	
2-Nitrophenol	0.149	0.184		23.5	20.0
2,4-Dimethylphenol	0.249	0.239		-4.0	
bis(2-Chloroethoxy)methane	0.415	0.418		0.7	
2,4-Dichlorophenol	0.283	0.288		1.8	20.0
Naphthalene	1.031	1.035		0.4	
4-Chloroaniline	0.352	0.334		-5.1	
Hexachlorobutadiene	0.197	0.205		4.1	20.0
Caprolactam	0.090	0.100		11.1	
4-Chloro-3-methylphenol	0.314	0.326		3.8	20.0
2-Methylnaphthalene	0.632	0.643		1.7	
Hexachlorocyclopentadiene	0.188	0.186	0.050	-1.1	
2,4,6-Trichlorophenol	0.382	0.399		4.4	20.0
2-Fluorobiphenyl	1.210	1.197		-1.1	
2,4,5-Trichlorophenol	0.394	0.403		2.3	
1,1-Biphenyl	1.392	1.370		-1.6	
2-Chloronaphthalene	1.121	1.119		-0.2	
2-Nitroaniline	0.343	0.409		19.2	
Dimethylphthalate	1.246	1.300		4.3	
Acenaphthylene	1.621	1.616		-0.3	
2,6-Dinitrotoluene	0.270	0.305		13.0	
3-Nitroaniline	0.278	0.318		14.4	
Acenaphthene	1.049	1.094		4.3	20.0
2,4-Dinitrophenol	0.093	0.177	0.050	90.3	
4-Nitrophenol	0.214	0.257	0.050	20.1	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.497		-0.5	
2,4-Dinitrotoluene	0.332	0.409		23.2	
Diethylphthalate	1.223	1.283		4.9	
4-Chlorophenyl-phenylether	0.579	0.592		2.2	
Fluorene	1.146	1.175		2.5	
4-Nitroaniline	0.263	0.334		27.0	
4,6-Dinitro-2-methylphenol	0.082	0.129		57.3	
n-Nitrosodiphenylamine	0.599	0.588		-1.8	20.0
2,4,6-Tribromophenol	0.187	0.211		12.8	
4-Bromophenyl-phenylether	0.206	0.207		0.5	
Hexachlorobenzene	0.232	0.231		-0.4	
Atrazine	0.162	0.166		2.5	
Pentachlorophenol	0.141	0.159		12.8	20.0
Phenanthrene	0.945	0.934		-1.2	
Anthracene	0.922	0.926		0.4	
Carbazole	0.857	0.877		2.3	
Di-n-butylphthalate	0.990	1.074		8.5	
Fluoranthene	0.955	1.027		7.5	20.0
Pyrene	1.751	1.637		-6.5	
Terphenyl-d14	1.227	1.172		-4.5	
Butylbenzylphthalate	0.525	0.656		25.0	
3,3-Dichlorobenzidine	0.380	0.424		11.6	
Benzo(a)anthracene	1.302	1.323		1.6	
Chrysene	1.194	1.237		3.6	
Bis(2-ethylhexyl)phthalate	0.589	0.869		47.5	
Di-n-octyl phthalate	1.071	1.344		25.5	20.0
Benzo(b)fluoranthene	1.218	1.286		5.6	
Benzo(k)fluoranthene	1.051	1.245		18.5	
Benzo(a)pyrene	1.002	1.068		6.6	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.255		-2.5	
Dibenzo(a,h)anthracene	1.073	1.035		-3.5	
Benzo(g,h,i)perylene	1.072	1.055		-1.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.549		1.7	
1,4-Dioxane	0.596	0.508		-14.8	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.324		4.9	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Time: Nov 01 01:14:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

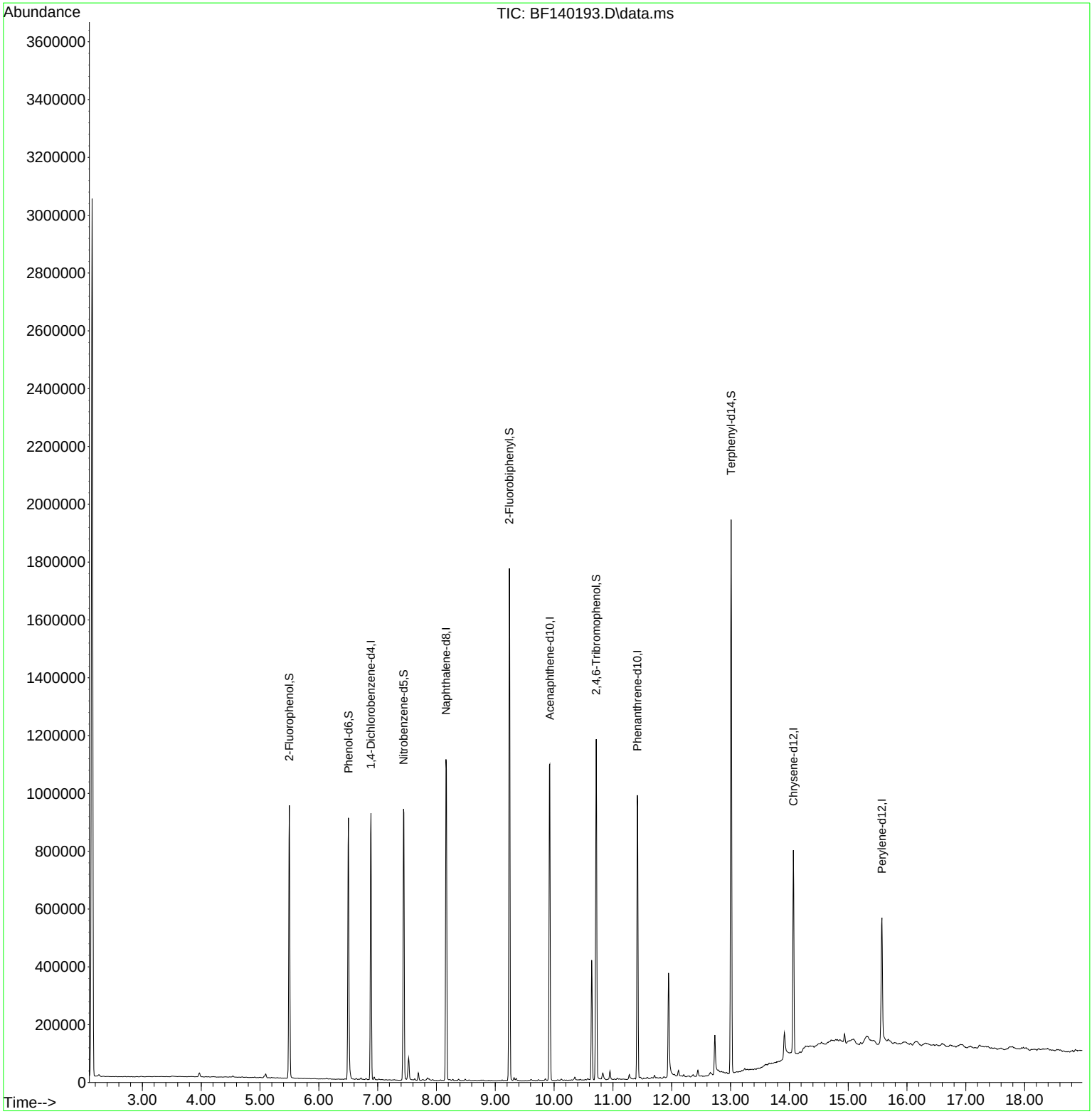
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	185491	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	676798	20.000	ng	-0.01
39) Acenaphthene-d10	9.927	164	334897	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	527934	20.000	ng	0.00
76) Chrysene-d12	14.068	240	330677	20.000	ng	0.02
86) Perylene-d12	15.574	264	264306	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	325476	27.469	ng	0.00
7) Phenol-d6	6.504	99	390383	25.439	ng	0.00
23) Nitrobenzene-d5	7.439	82	414358	33.932	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	189605	60.528	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	758874	37.450	ng	-0.01
79) Terphenyl-d14	13.010	244	951394	46.882	ng	0.01
Target Compounds						Qvalue

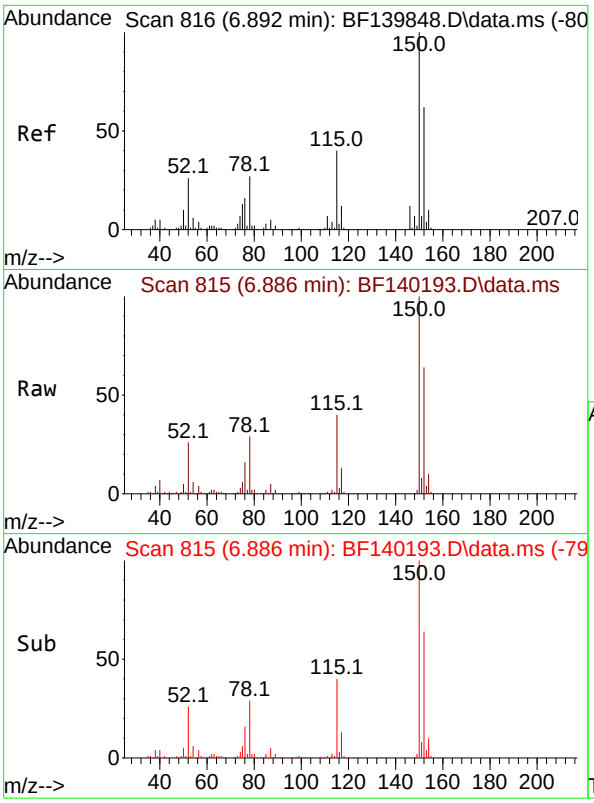
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Time: Nov 01 01:14:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



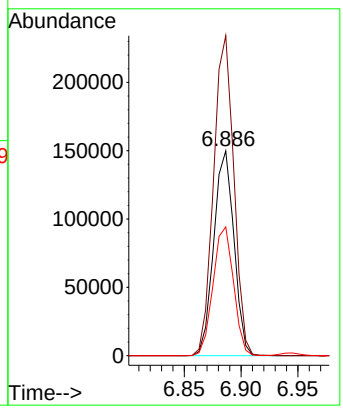


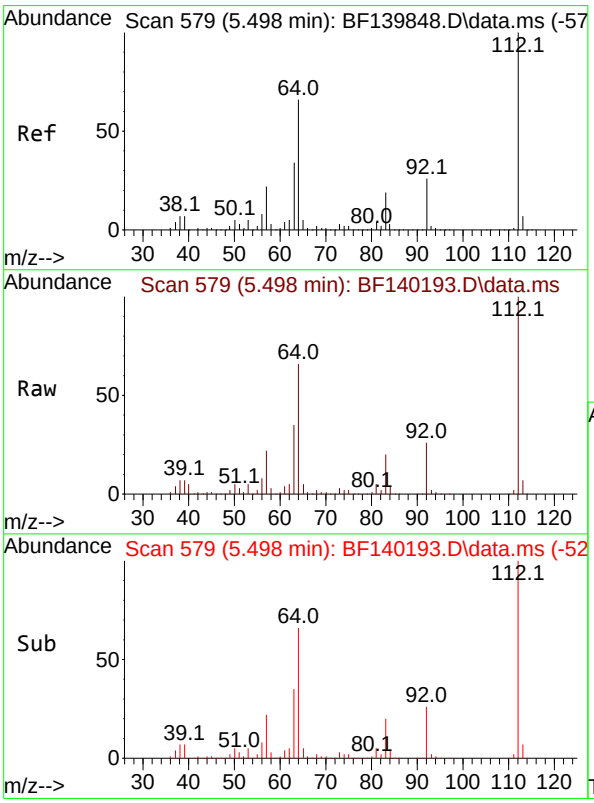
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion:152 Resp: 185491

Ion	Ratio	Lower	Upper
152	100		
150	156.3	130.2	195.2
115	62.9	51.4	77.2

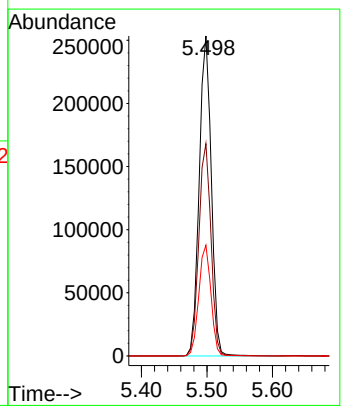


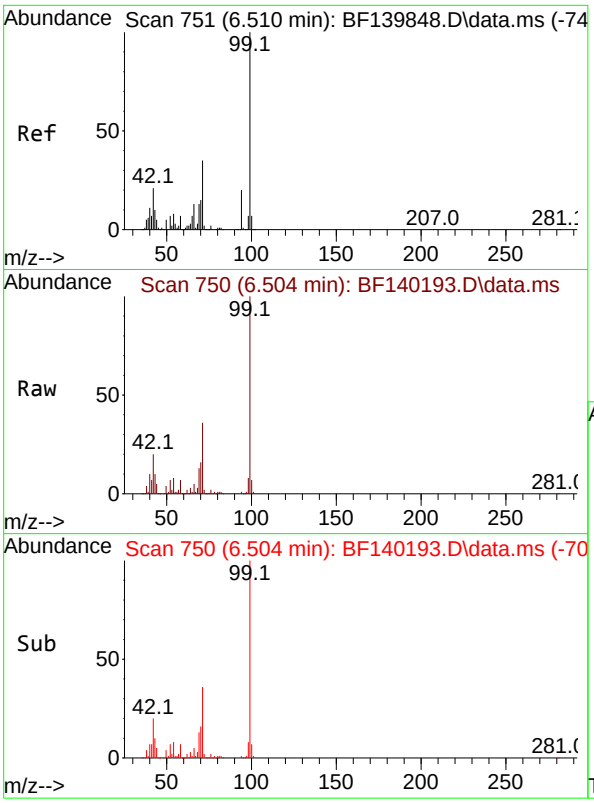


#5
2-Fluorophenol
Concen: 27.469 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:112 Resp: 325476

Ion	Ratio	Lower	Upper
112	100		
64	66.3	53.0	79.6
63	34.6	27.0	40.4



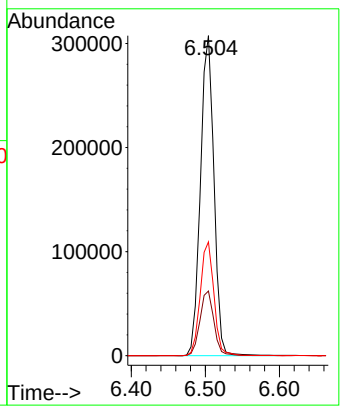


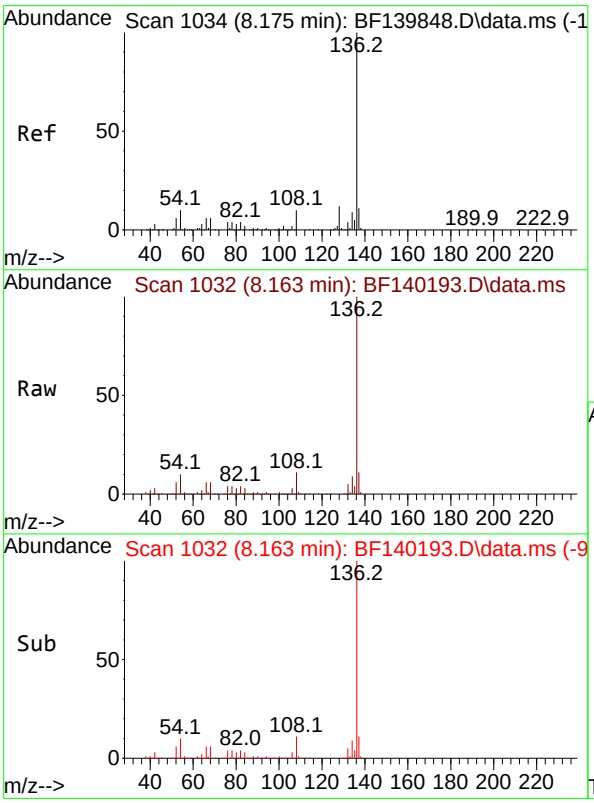
#7
Phenol-d6
Concen: 25.439 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion: 99 Resp: 390383

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.7	25.1
71	35.5	27.7	41.5

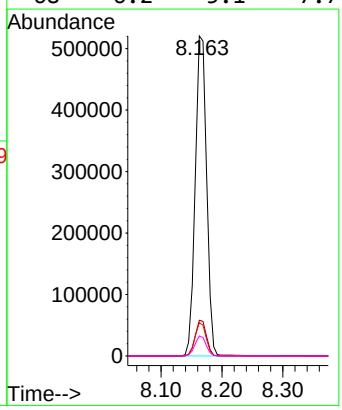


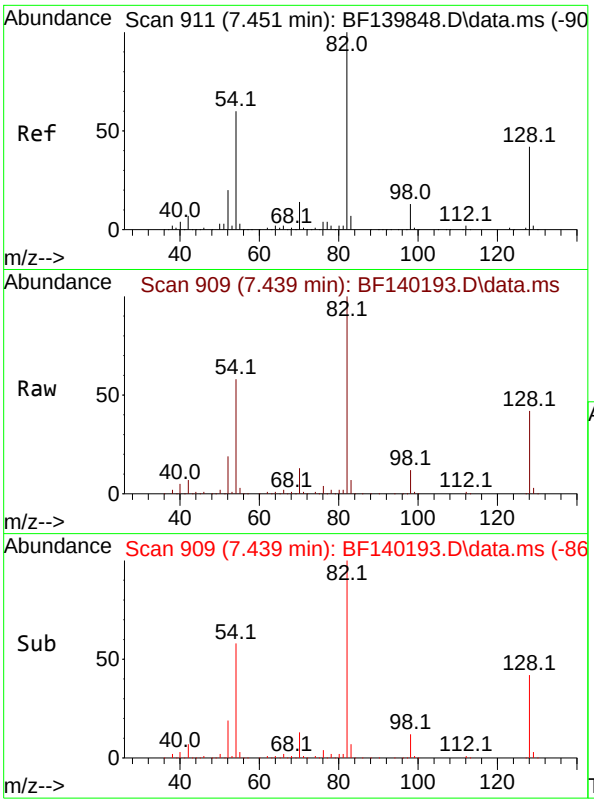


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:136 Resp: 676798

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.6	12.8
54	10.4	8.4	12.6
68	6.2	5.1	7.7



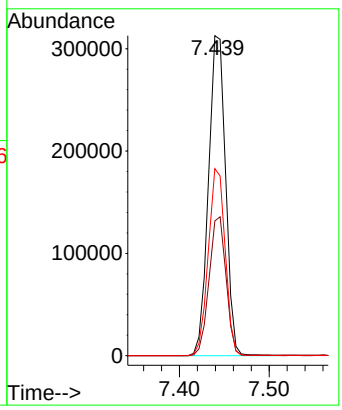


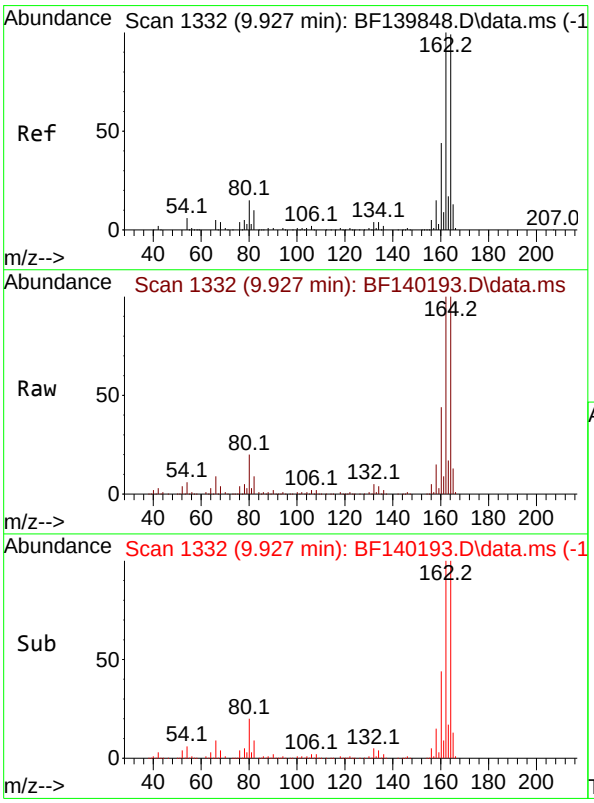
#23
Nitrobenzene-d5
Concen: 33.932 ng
RT: 7.439 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion: 82 Resp: 414358

Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.4	50.0
54	58.4	47.8	71.8

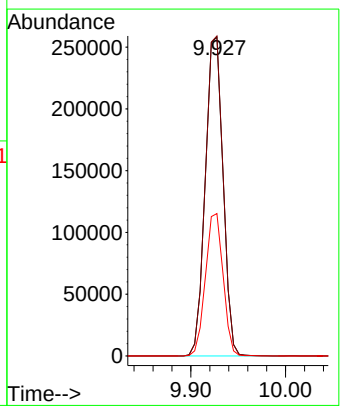


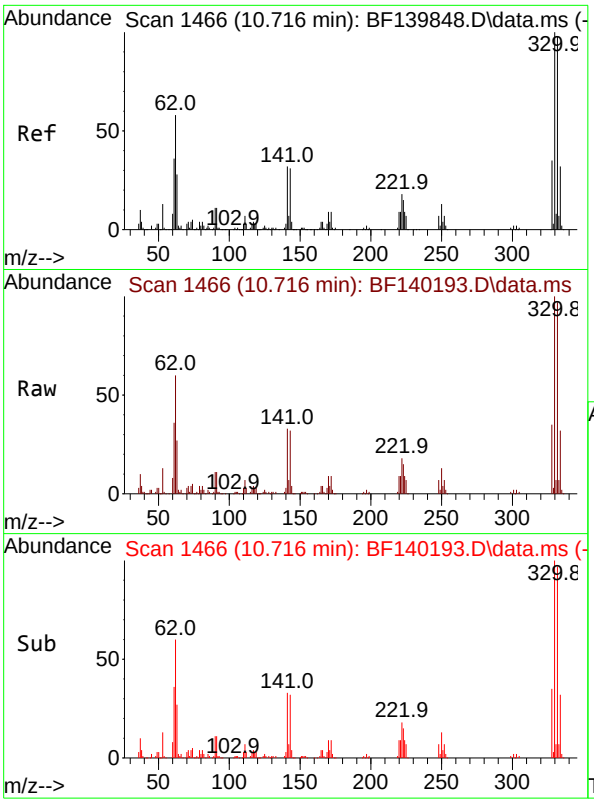


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1332
Delta R.T. 0.000 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:164 Resp: 334897

Ion	Ratio	Lower	Upper
164	100		
162	100.4	81.0	121.4
160	44.7	35.4	53.0



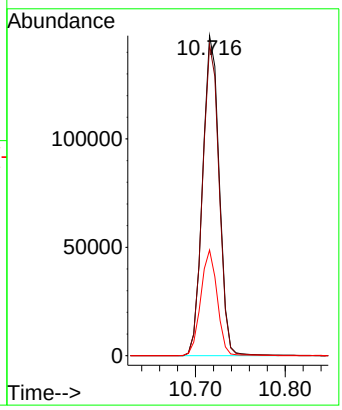


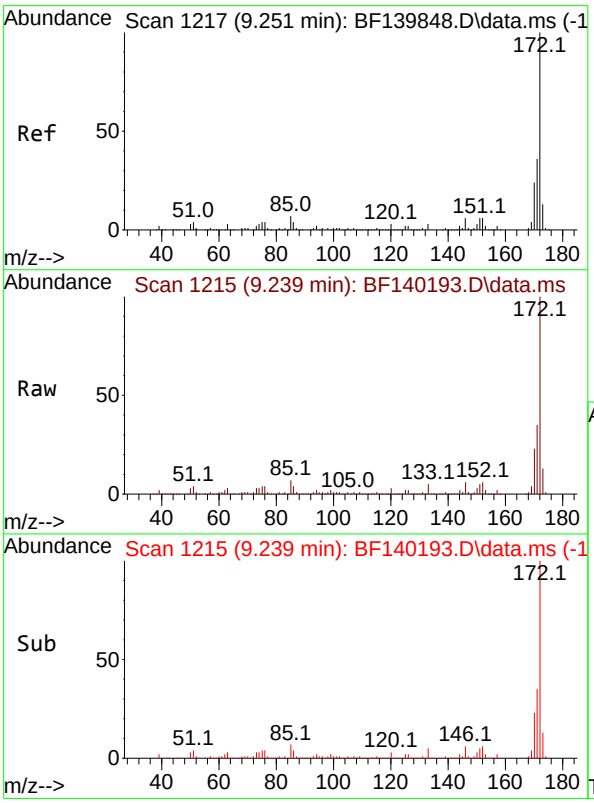
#42
2,4,6-Tribromophenol
Concen: 60.528 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion:330 Resp: 189605

Ion	Ratio	Lower	Upper
330	100		
332	97.3	78.1	117.1
141	32.8	26.6	39.8

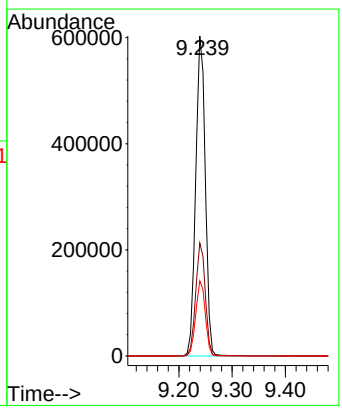


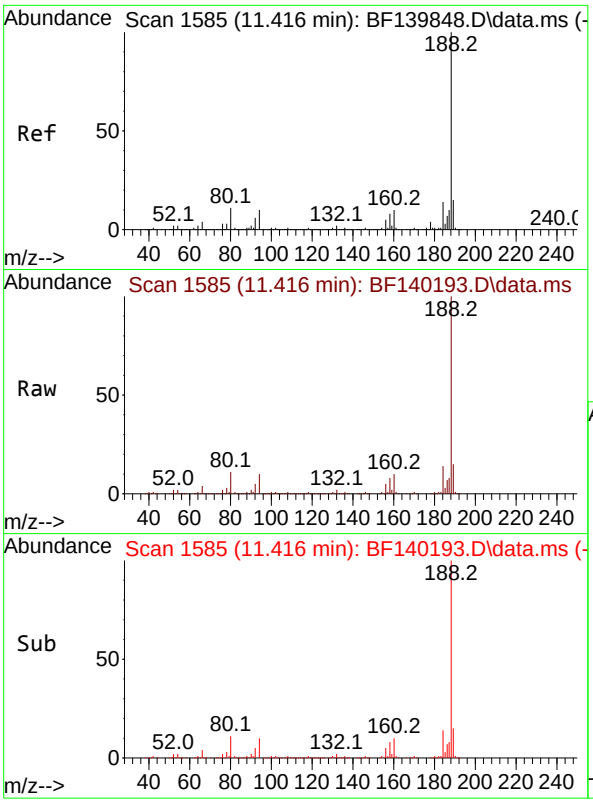


#45
2-Fluorobiphenyl
Concen: 37.450 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:172 Resp: 758874

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.5	19.1	28.7



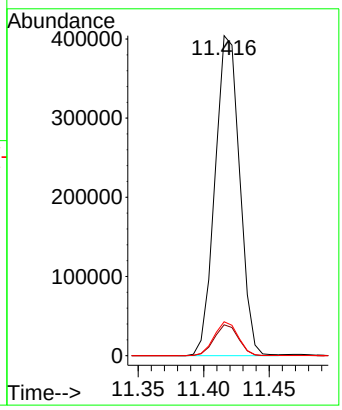


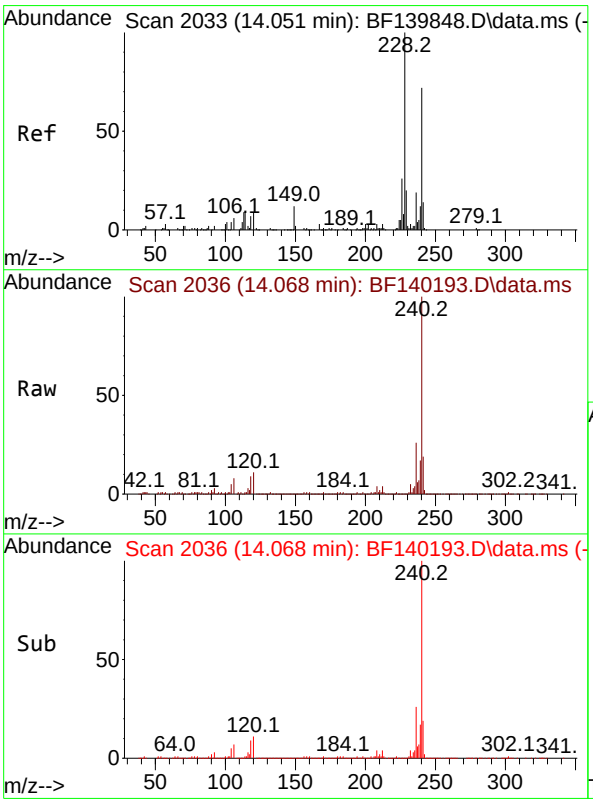
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion:188 Resp: 527934

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.6	9.0	13.4

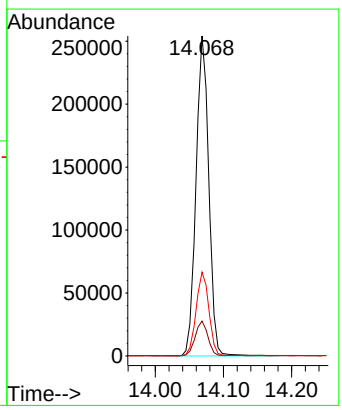


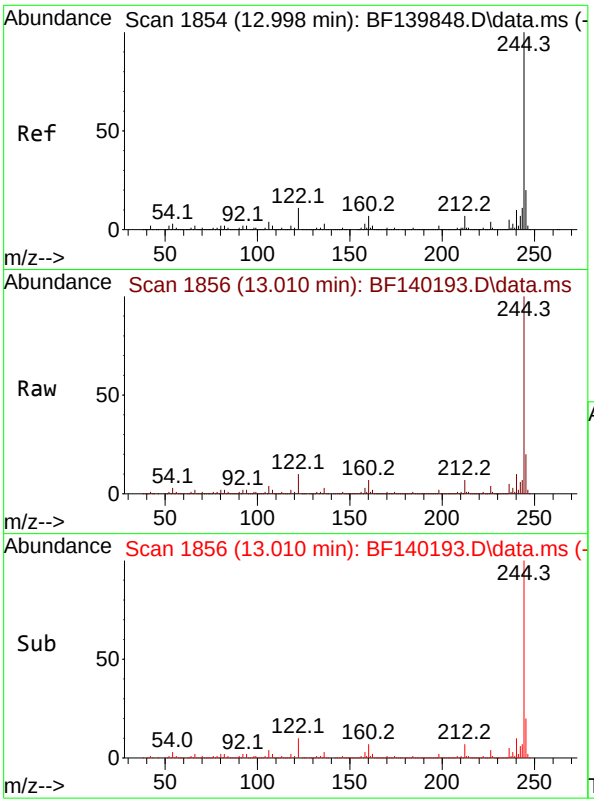


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:240 Resp: 330677

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.4	14.2
236	26.2	20.9	31.3



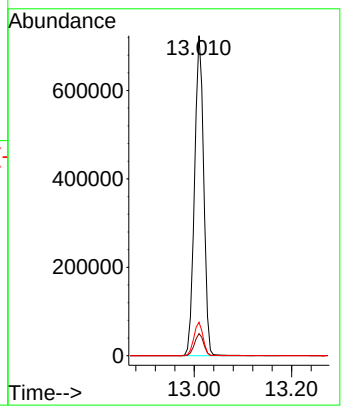


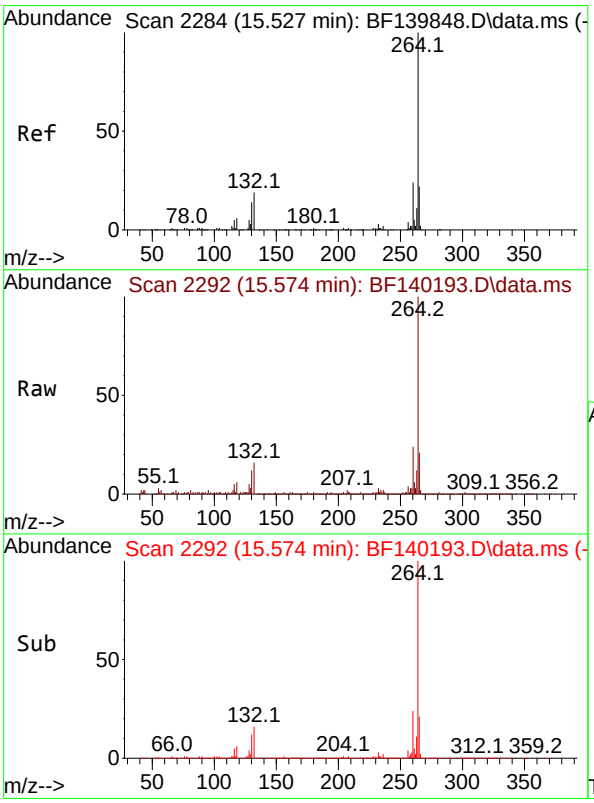
#79
Terphenyl-d14
Concen: 46.882 ng
RT: 13.010 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion:244 Resp: 951394

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.4	8.6	13.0

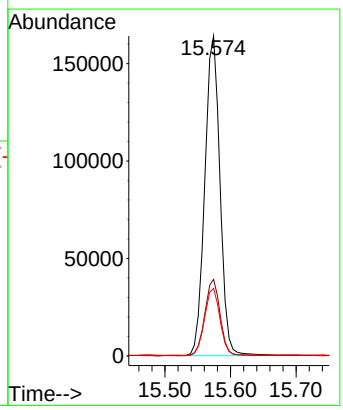




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2292
Delta R.T. 0.047 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:264 Resp: 264306

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	21.1	17.4	26.0



Sample Results: **BF140193.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140193.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.146	3	9	16	rVB	3034358	4921166	100.00%	21.015%
2	5.498	573	579	597	rVB	944260	1225499	24.90%	5.233%
3	6.504	744	750	762	rBV	904414	1191054	24.20%	5.086%
4	6.886	809	815	820	rBV	921283	1154782	23.47%	4.931%
5	7.439	904	909	915	rBV	936786	1239591	25.19%	5.294%
6	7.528	918	924	935	rVB	76298	122746	2.49%	0.524%
7	8.163	1027	1032	1038	rBV	1110026	1426623	28.99%	6.092%
8	9.239	1209	1215	1220	rBV	1772086	2206427	44.84%	9.422%
9	9.927	1326	1332	1337	rBV	1092709	1428250	29.02%	6.099%
10	10.639	1448	1453	1460	rVB	414072	509655	10.36%	2.176%
11	10.716	1460	1466	1477	rBV	1178290	1512797	30.74%	6.460%
12	11.416	1580	1585	1591	rBV	981765	1282663	26.06%	5.477%
13	11.945	1670	1675	1690	rBV	359491	563459	11.45%	2.406%
14	12.733	1804	1809	1817	rBV	137214	225628	4.58%	0.964%
15	13.010	1850	1856	1861	rBV	1916720	2515363	51.11%	10.742%
16	13.915	2005	2010	2025	rBV2	90737	261859	5.32%	1.118%
17	14.068	2031	2036	2043	rVB	703134	913391	18.56%	3.901%
18	15.574	2286	2292	2306	rBV	428057	716217	14.55%	3.059%

Sum of corrected areas: 23417170

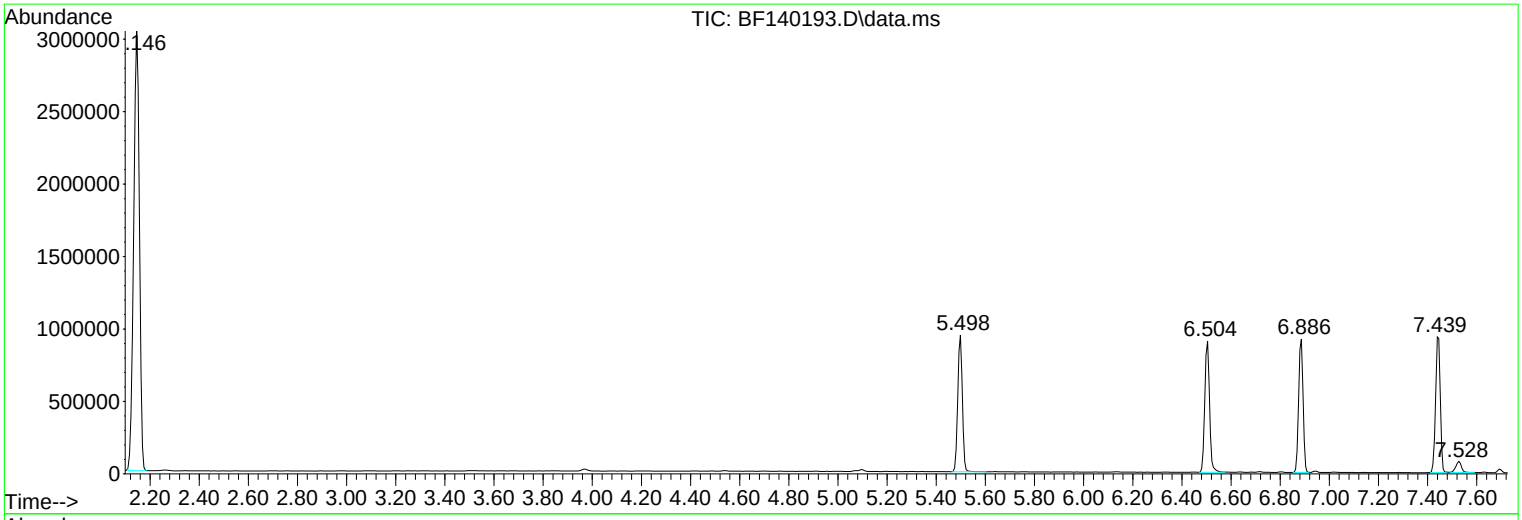
Sample Results: **BF140193.D**

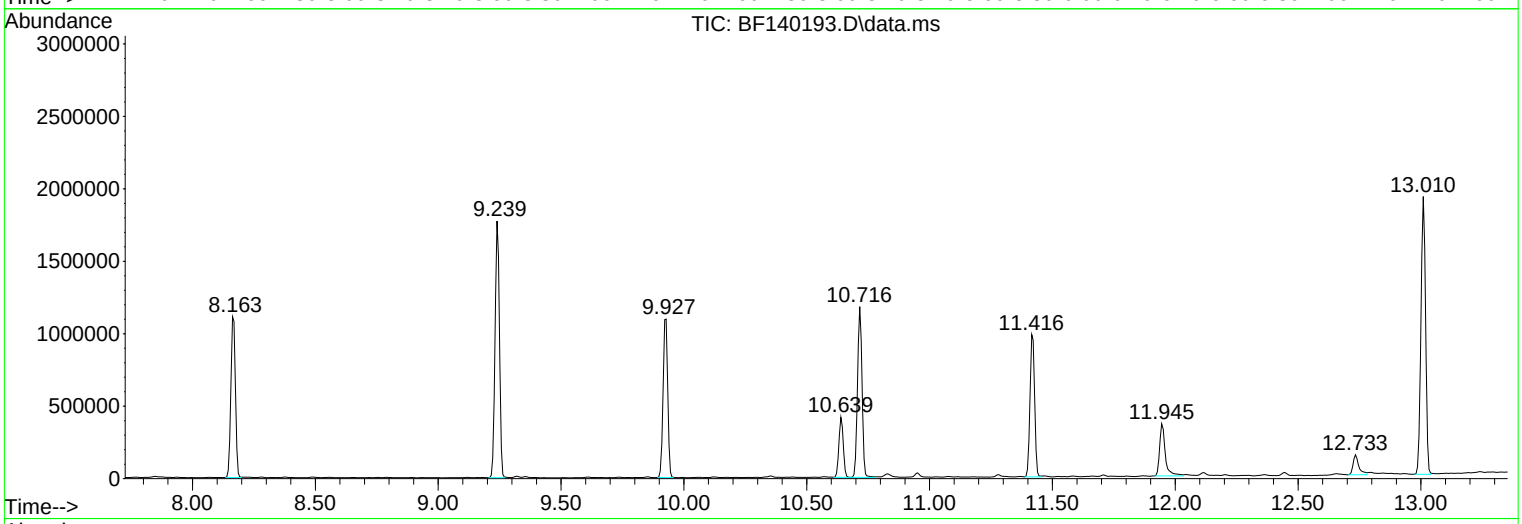
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

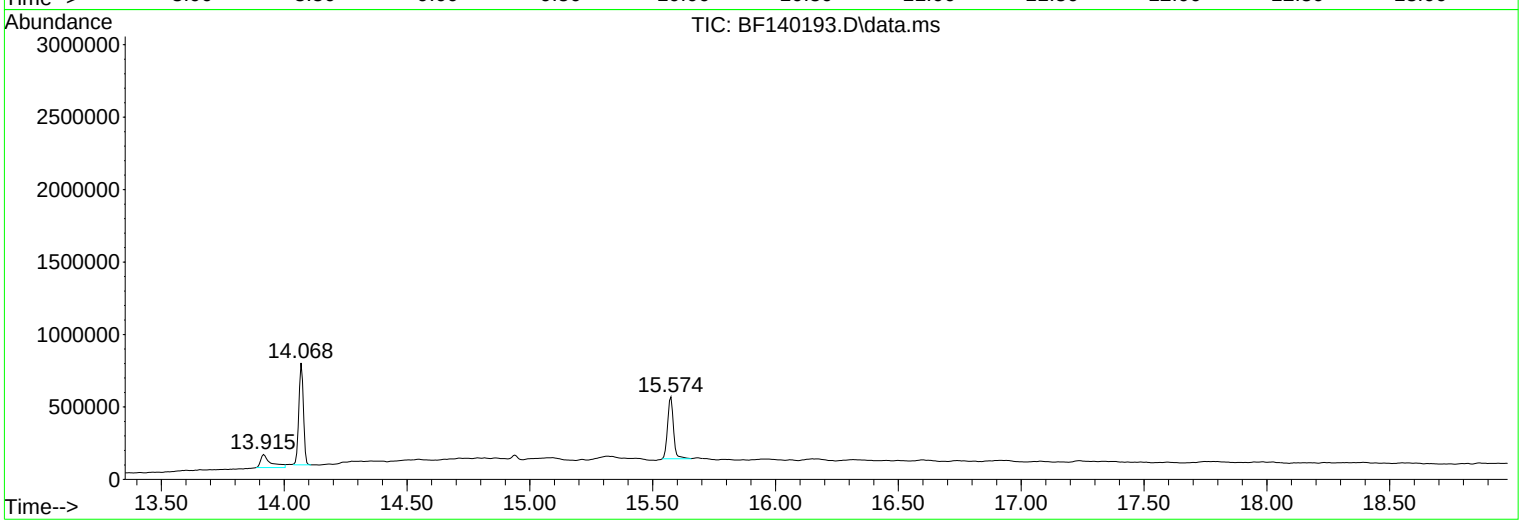
Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

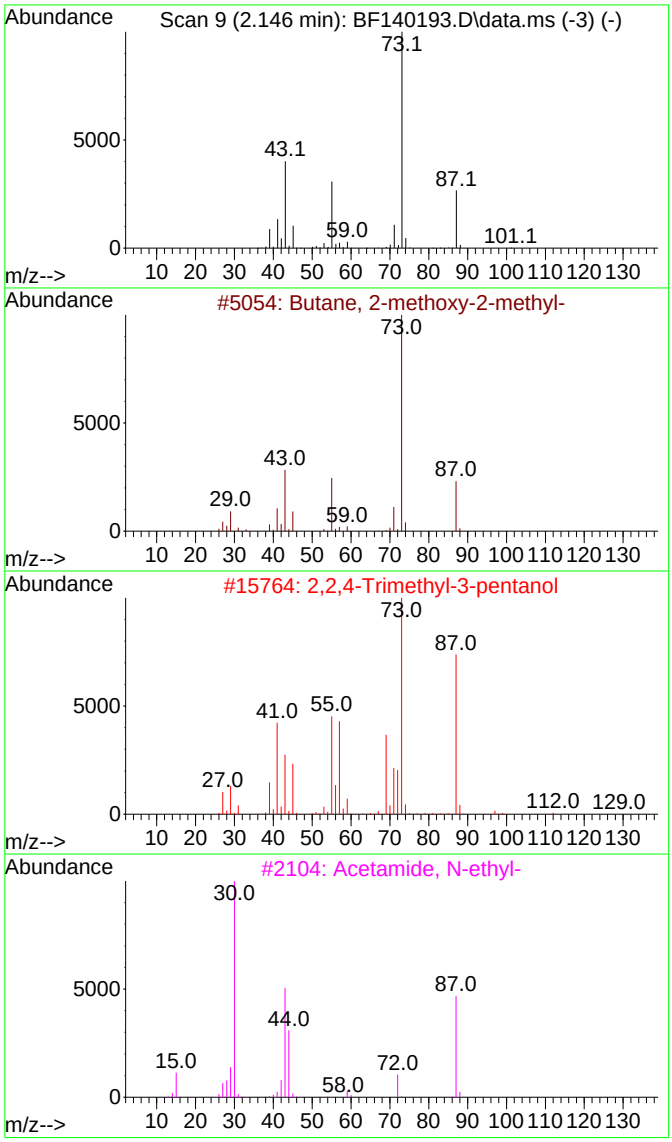
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

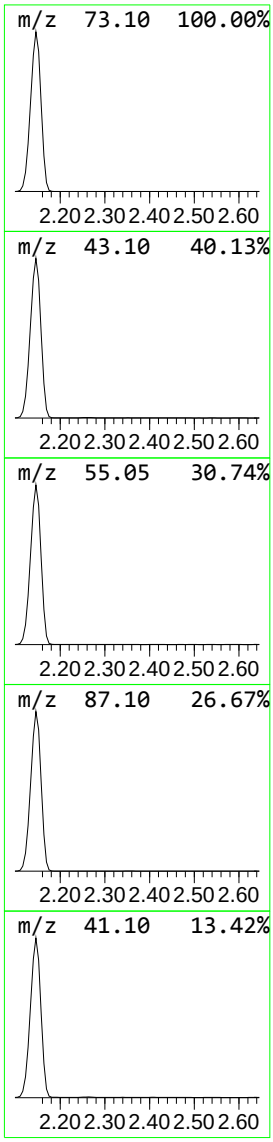
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.146	85.23 ng	4921170	1,4-Dichlorobenzene-d4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

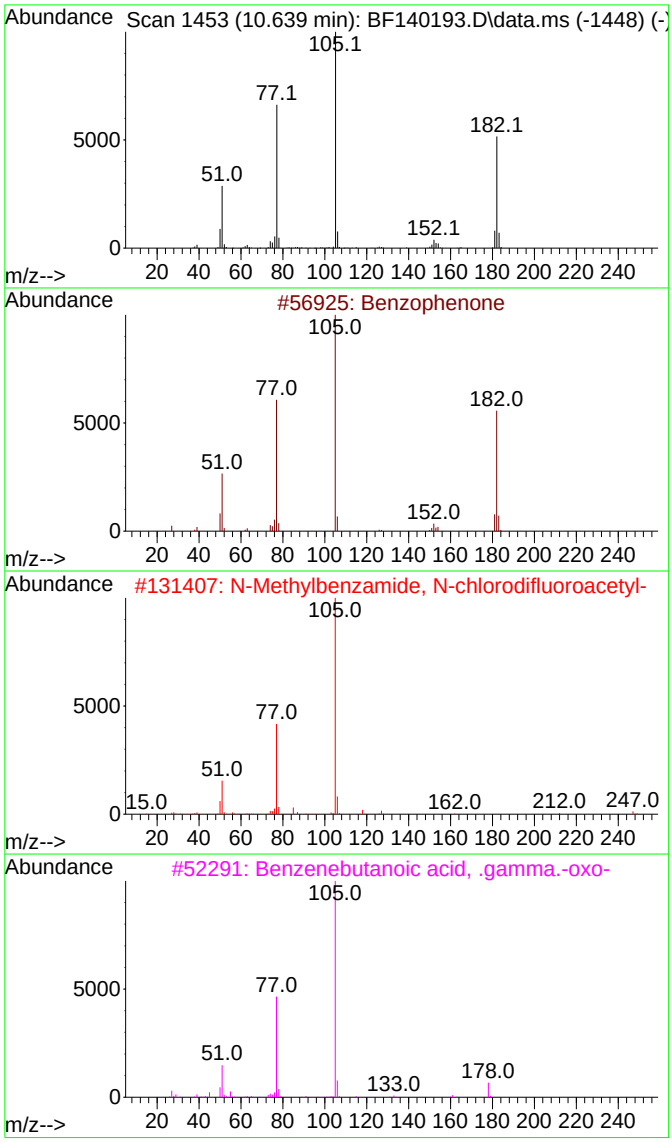
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

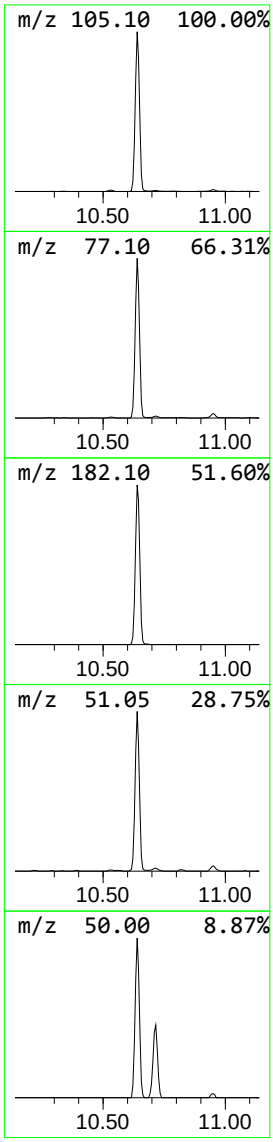
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Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.639	7.14 ng	509655	Acenaphthene-d10	9.927

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	N-Methylbenzamide, N-chlorodiflu...	247	C10H8ClF2NO2	1000446-98-2	47
3	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
4	Vinyl benzoate	148	C9H8O2	000769-78-8	47
5	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

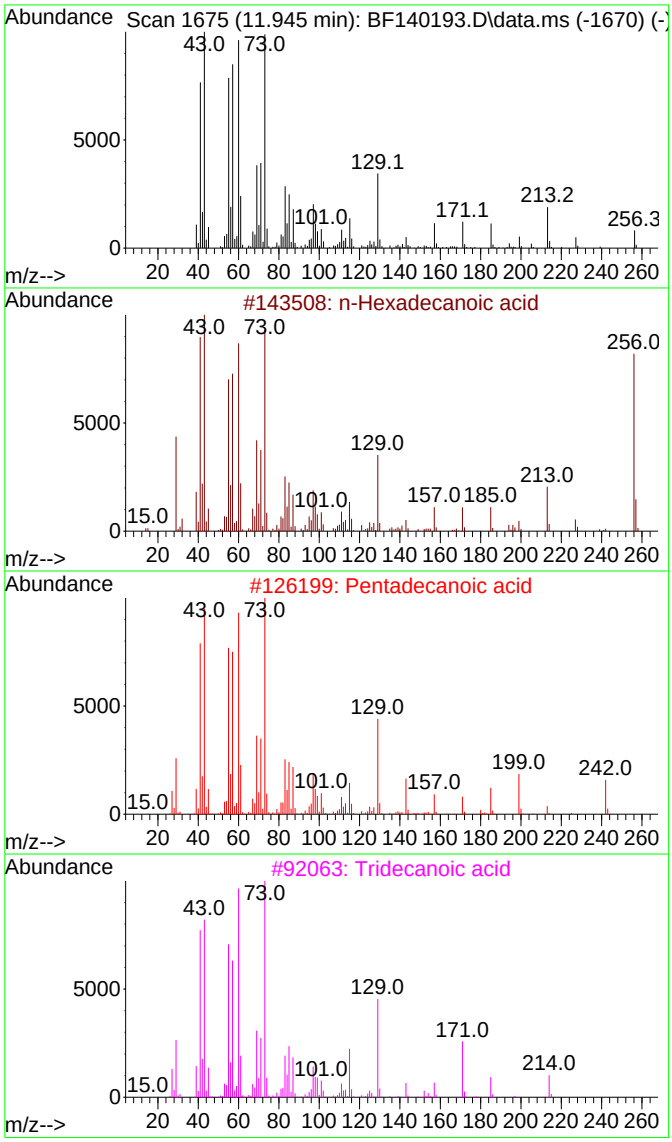
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

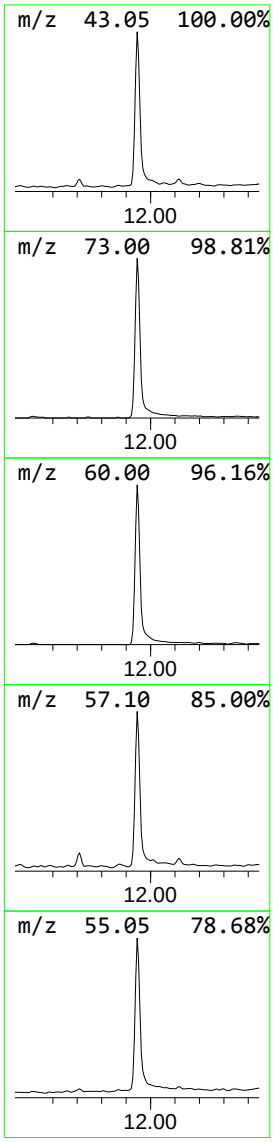
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Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	8.79 ng	563459	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Tridecanoic acid	214	C13H26O2	000638-53-9	89
4	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	78
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

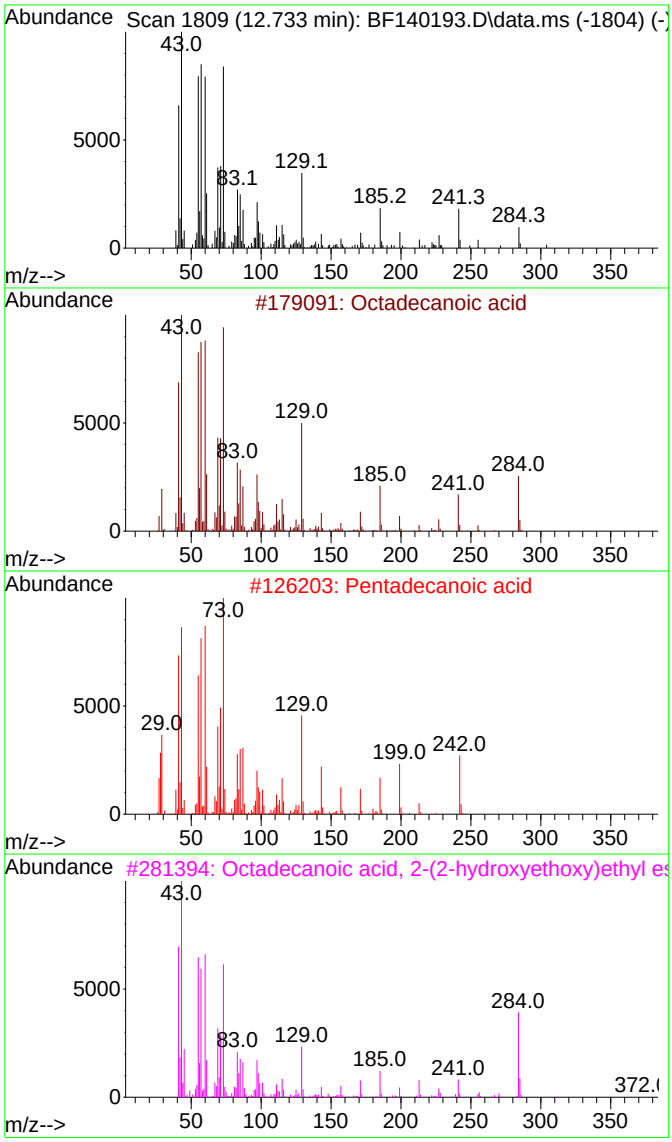
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

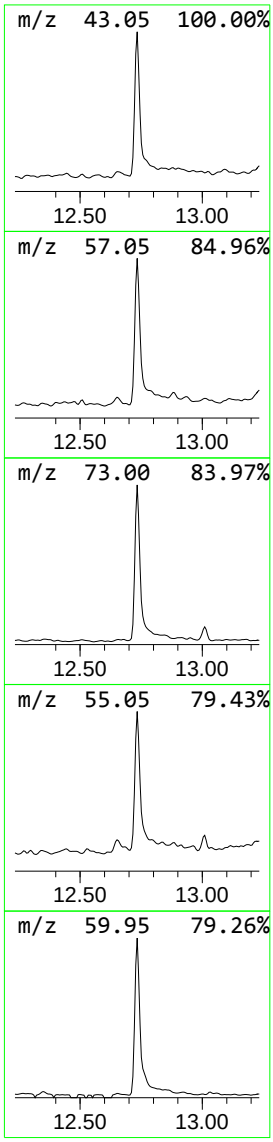
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Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	3.52 ng	225628	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
3	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	87
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	74
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

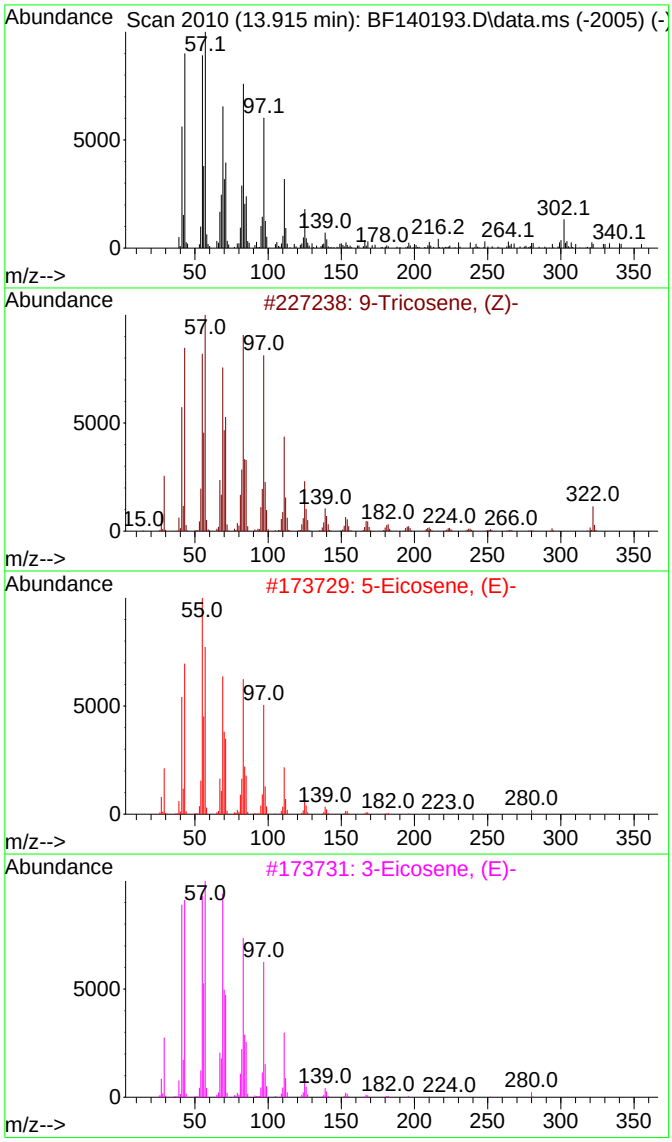
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

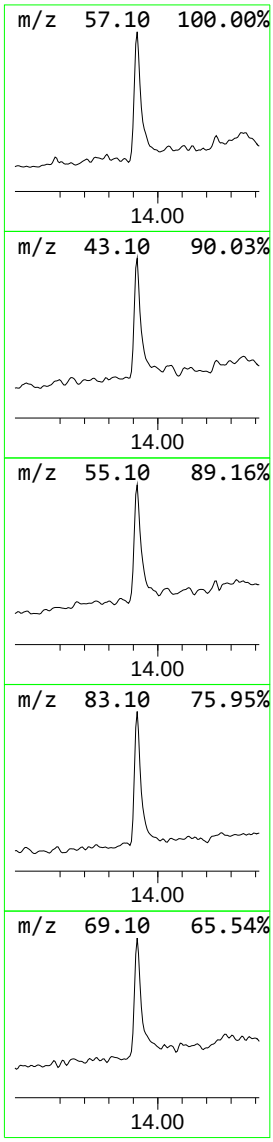
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Peak Number 5 9-Tricosene, (Z)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.915	5.73 ng	261859	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Tricosene, (Z)-	322	C23H46	027519-02-4	98
2	5-Eicosene, (E)-	280	C20H40	074685-30-6	97
3	3-Eicosene, (E)-	280	C20H40	074685-33-9	96
4	1-Tricosene	322	C23H46	018835-32-0	95
5	Henicos-1-ene	294	C21H42	001599-68-4	95





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.146	85.2	ng	4921170	1	6.886	1154780	20.0
Benzophenone	10.639	7.1	ng	509655	3	9.927	1428250	20.0
n-Hexadecanoic ...	11.945	8.8	ng	563459	4	11.416	1282660	20.0
Octadecanoic acid	12.733	3.5	ng	225628	4	11.416	1282660	20.0
9-Tricosene, (Z)-	13.915	5.7	ng	261859	5	14.068	913391	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140206.D
Acq On : 01 Nov 2024 12:07
Operator : RC/JU
Sample : P4578-01RE
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Quant Time: Nov 01 12:39:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

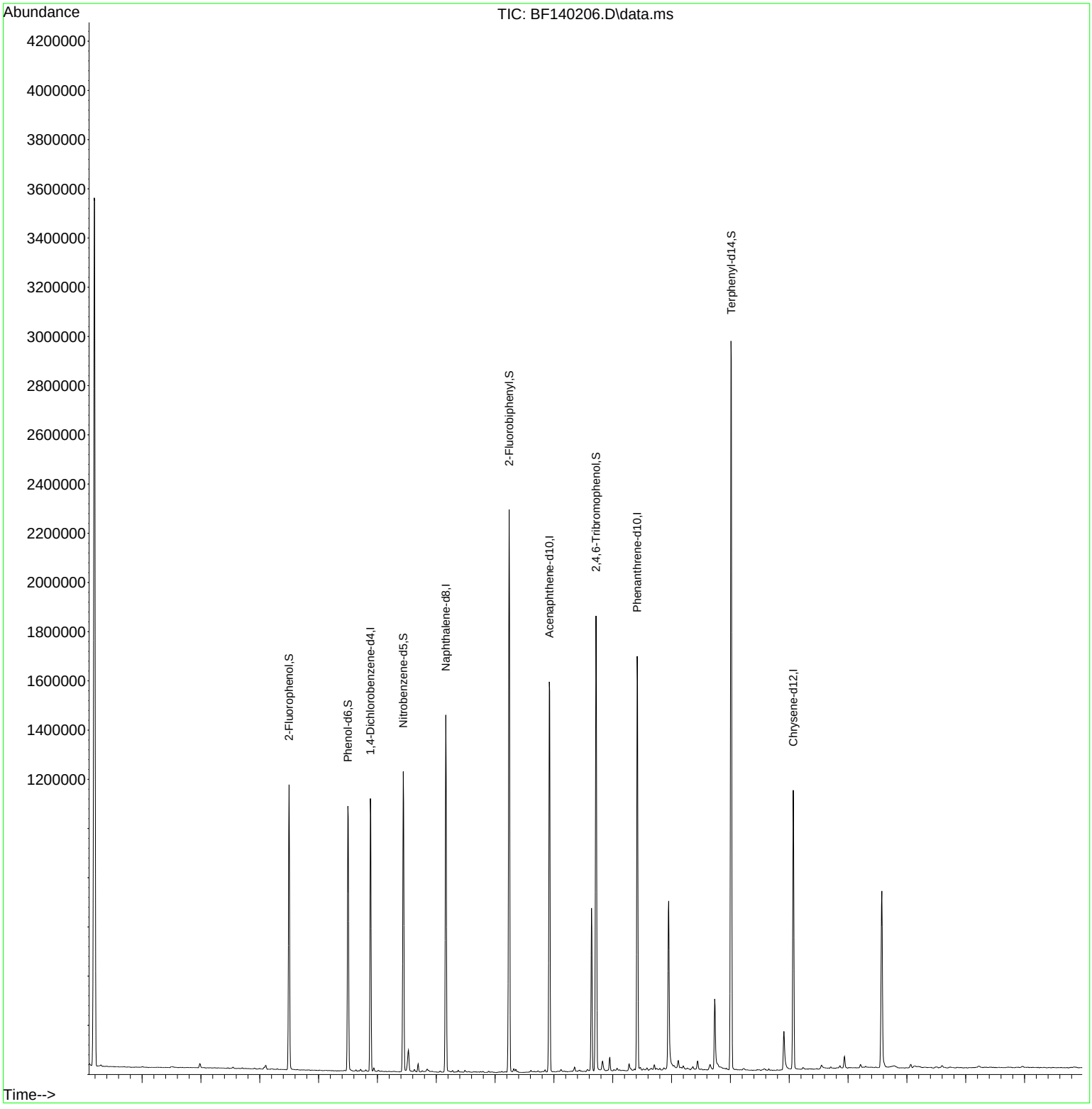
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	221542	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	874676	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	496865	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	893182	20.000	ng	0.00
76) Chrysene-d12	14.068	240	535712	20.000	ng	0.02
86) Perylene-d12	15.574	264	445221	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	397857	28.114	ng	0.00
7) Phenol-d6	6.498	99	483636	26.387	ng	-0.01
23) Nitrobenzene-d5	7.439	82	545652	34.575	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	315662	67.921	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1027093	34.164	ng	-0.01
79) Terphenyl-d14	13.016	244	1571178	47.791	ng	0.02
Target Compounds						Qvalue

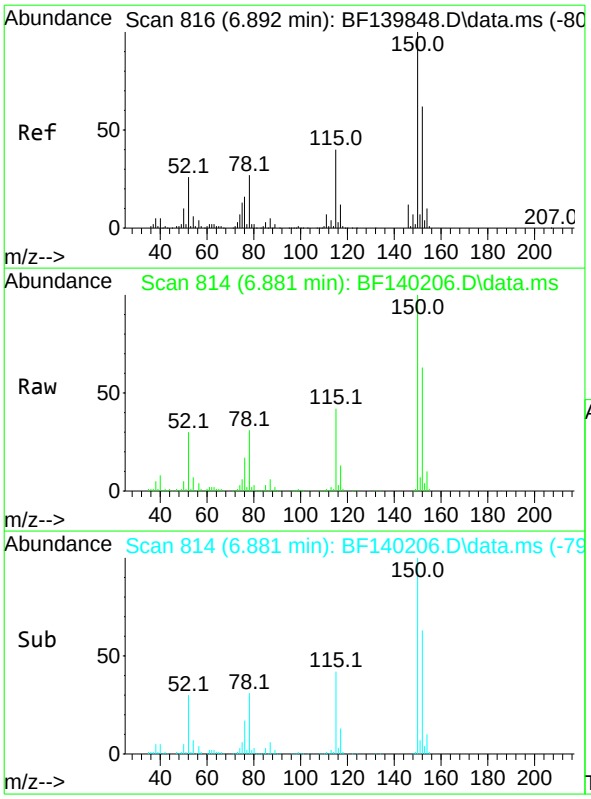
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140206.D
Acq On : 01 Nov 2024 12:07
Operator : RC/JU
Sample : P4578-01RE
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Quant Time: Nov 01 12:39:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



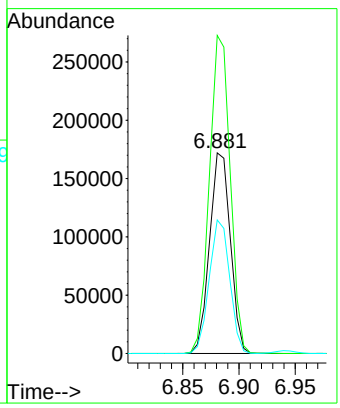


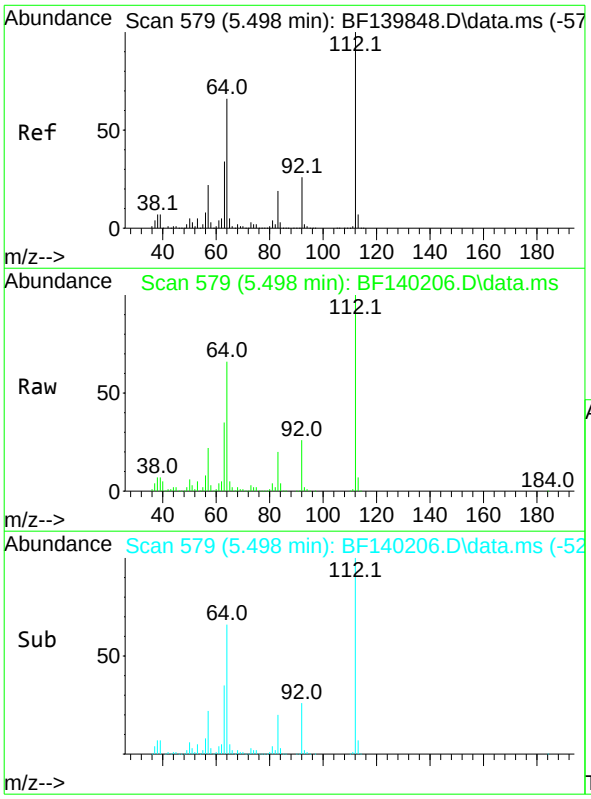
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Tgt Ion:152 Resp: 221542

Ion	Ratio	Lower	Upper
152	100		
150	158.6	130.2	195.2
115	66.6	51.4	77.2

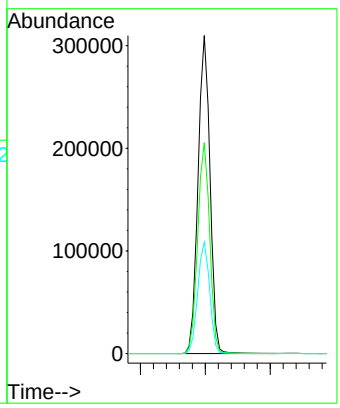


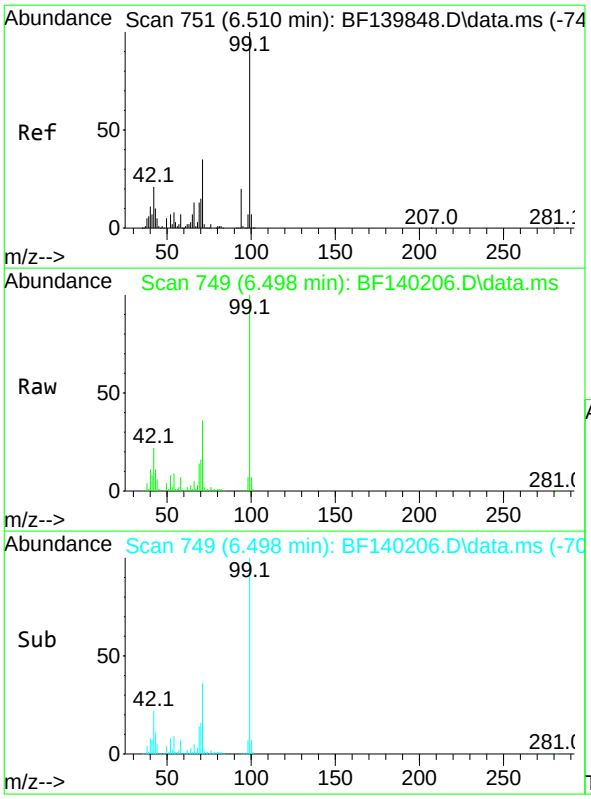


#5
2-Fluorophenol
Concen: 28.114 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:112 Resp: 397857

Ion	Ratio	Lower	Upper
112	100		
64	66.3	53.0	79.6
63	35.0	27.0	40.4



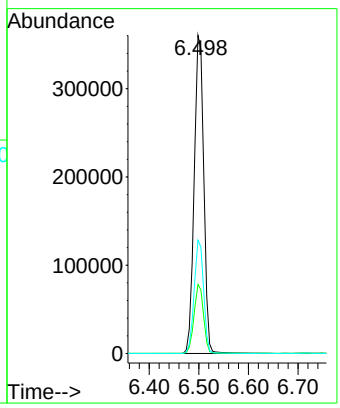


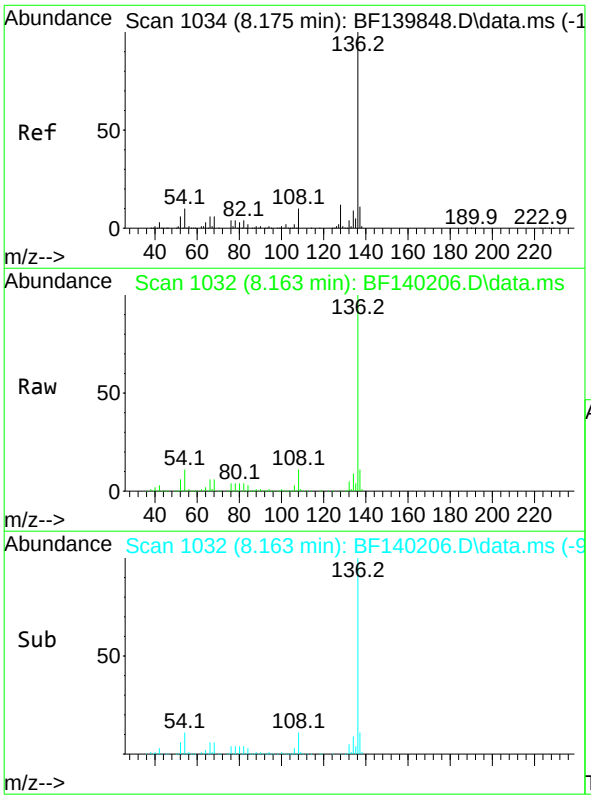
#7
Phenol-d6
Concen: 26.387 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Tgt Ion: 99 Resp: 483636

Ion	Ratio	Lower	Upper
99	100		
42	21.7	16.7	25.1
71	35.6	27.7	41.5

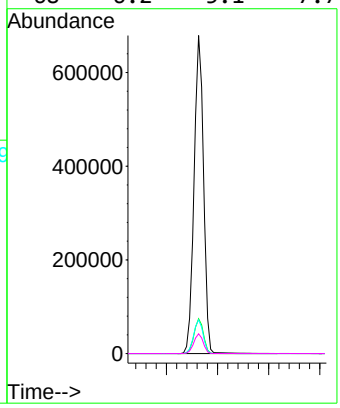


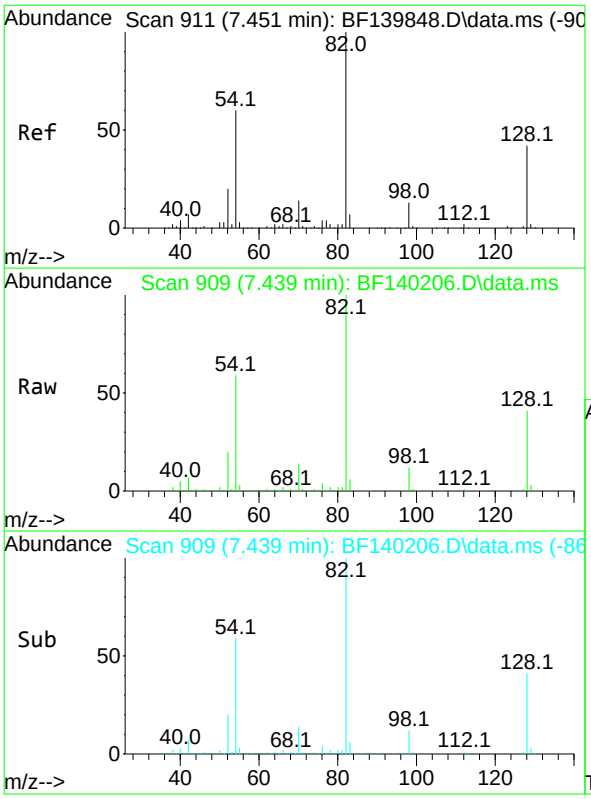


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:136 Resp: 874676

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	10.6	8.4	12.6
68	6.2	5.1	7.7



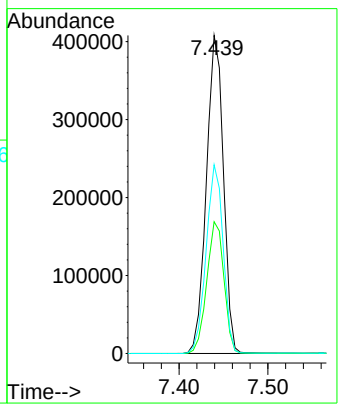


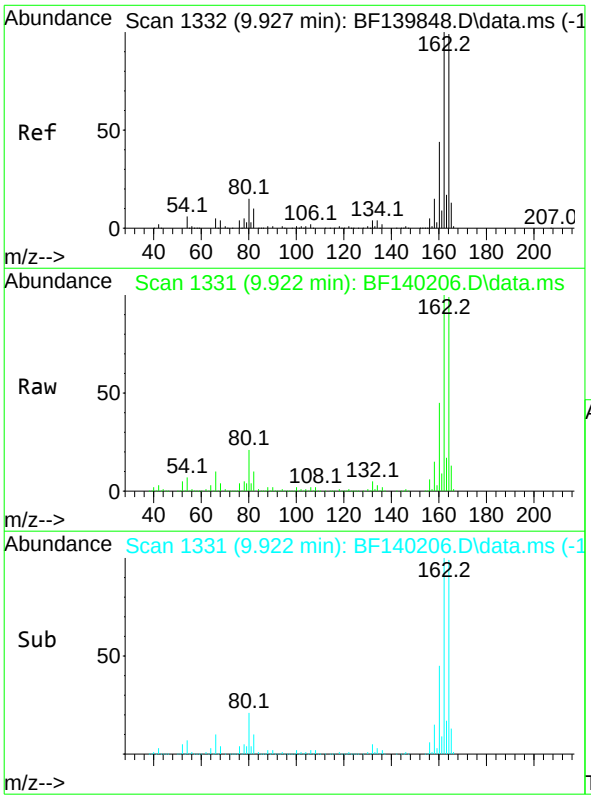
#23
Nitrobenzene-d5
Concen: 34.575 ng
RT: 7.439 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Tgt Ion: 82 Resp: 545652

Ion	Ratio	Lower	Upper
82	100		
128	41.4	33.4	50.0
54	59.3	47.8	71.8

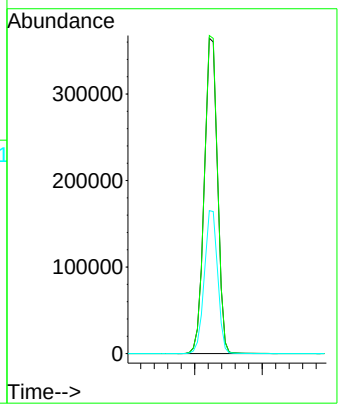


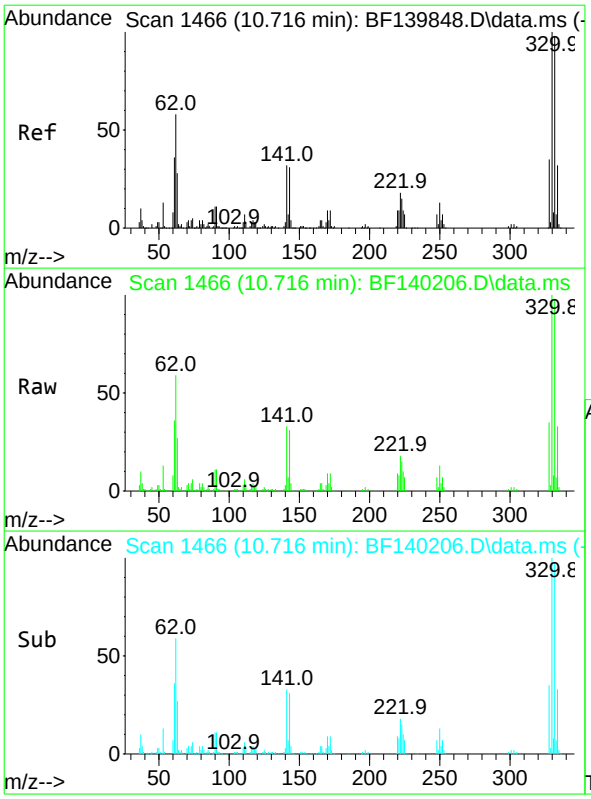


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:164 Resp: 496865

Ion	Ratio	Lower	Upper
164	100		
162	100.8	81.0	121.4
160	45.3	35.4	53.0



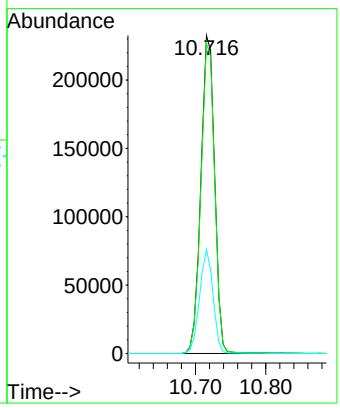


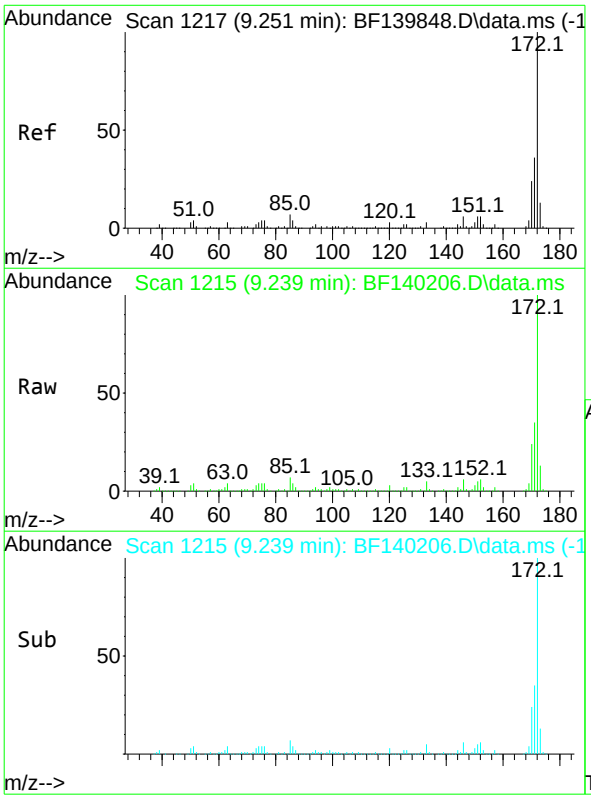
#42
2,4,6-Tribromophenol
Concen: 67.921 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Tgt Ion:330 Resp: 315662

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.1	117.1
141	32.1	26.6	39.8

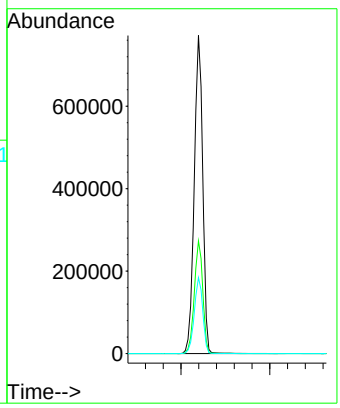


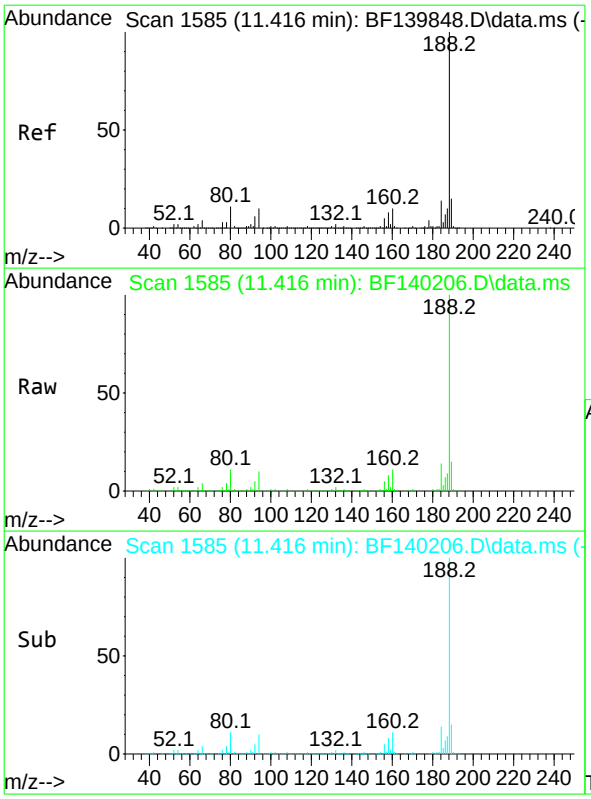


#45
2-Fluorobiphenyl
Concen: 34.164 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:172 Resp: 1027093

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	23.9	19.1	28.7



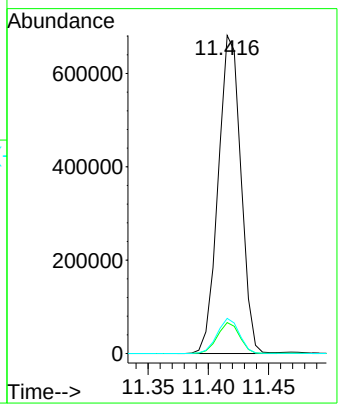


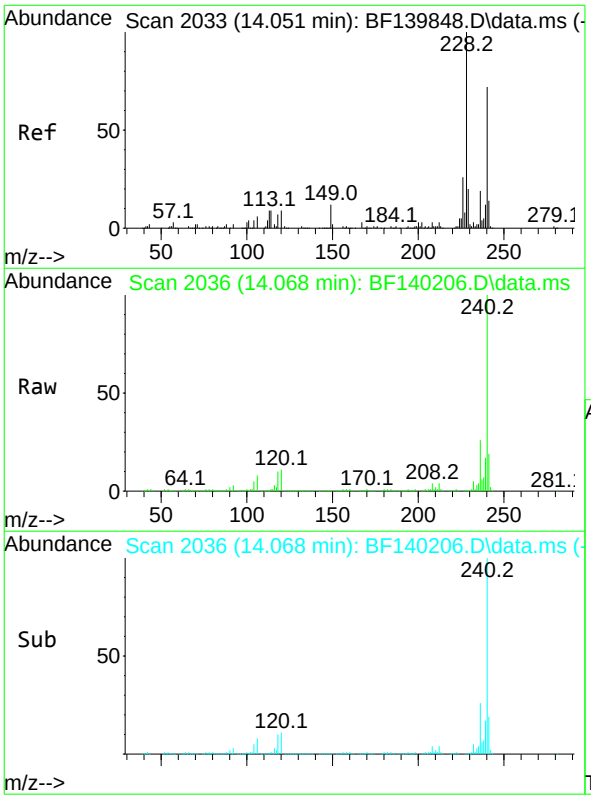
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 15
Delta R.T. 0.000 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Tgt Ion:188 Resp: 893182

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.9	11.9
80	11.0	9.0	13.4

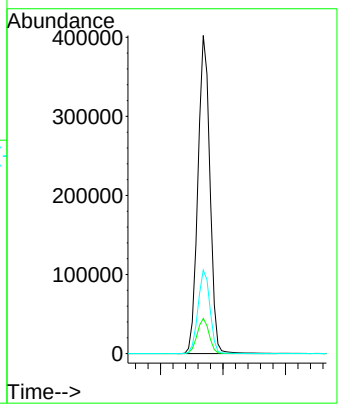


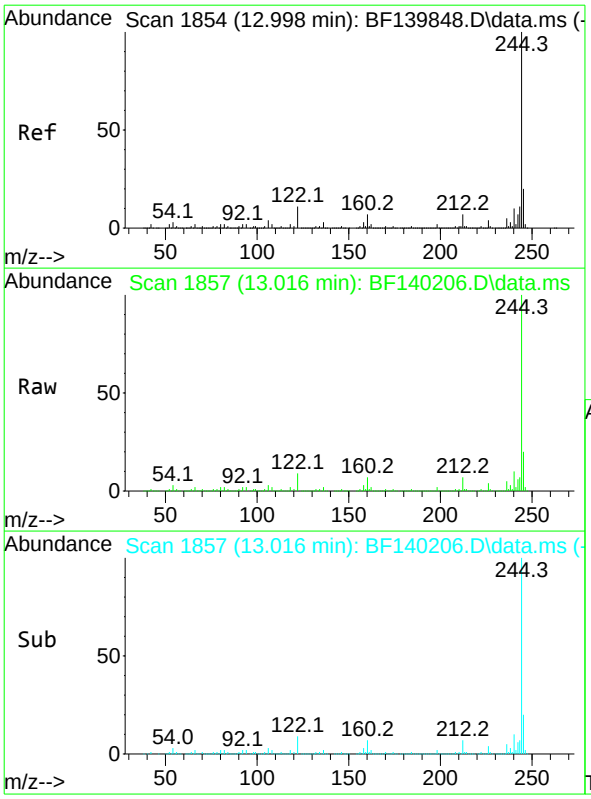


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:240 Resp: 535712

Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.4	14.2
236	26.3	20.9	31.3



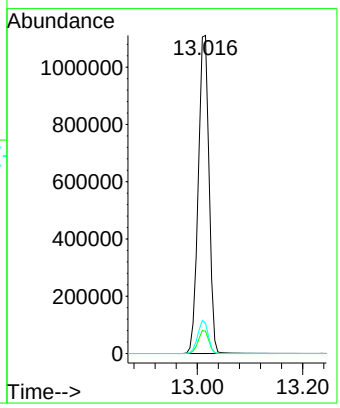


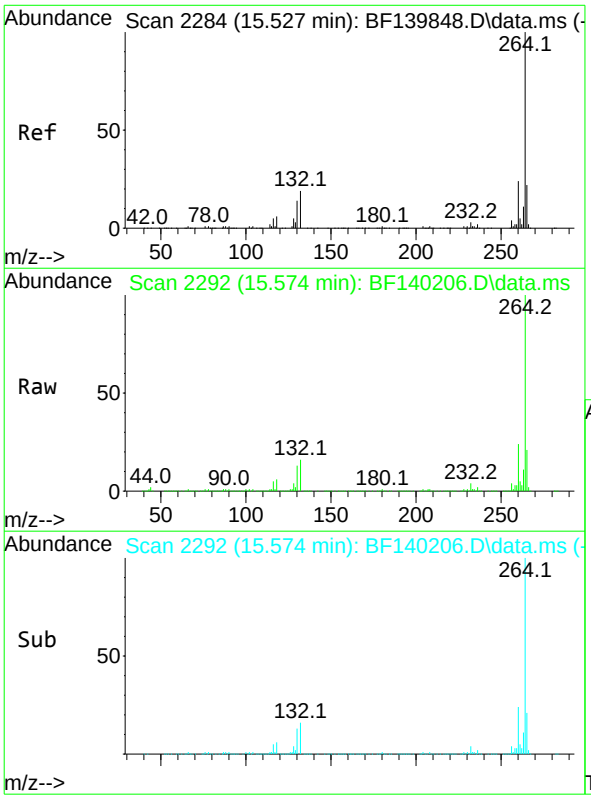
#79
Terphenyl-d14
Concen: 47.791 ng
RT: 13.016 min Scan# 18
Delta R.T. 0.018 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Tgt Ion:244 Resp: 1571178

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.7	8.5
122	9.5	8.6	13.0

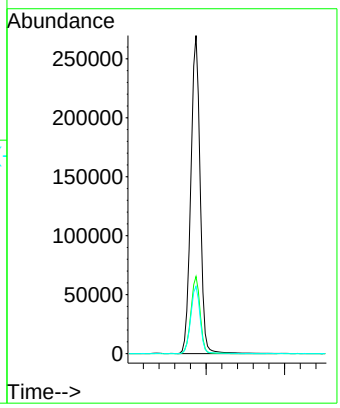




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2292
Delta R.T. 0.047 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:264 Resp: 445221

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.4	29.2
265	21.2	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Time: Oct 31 16:41:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

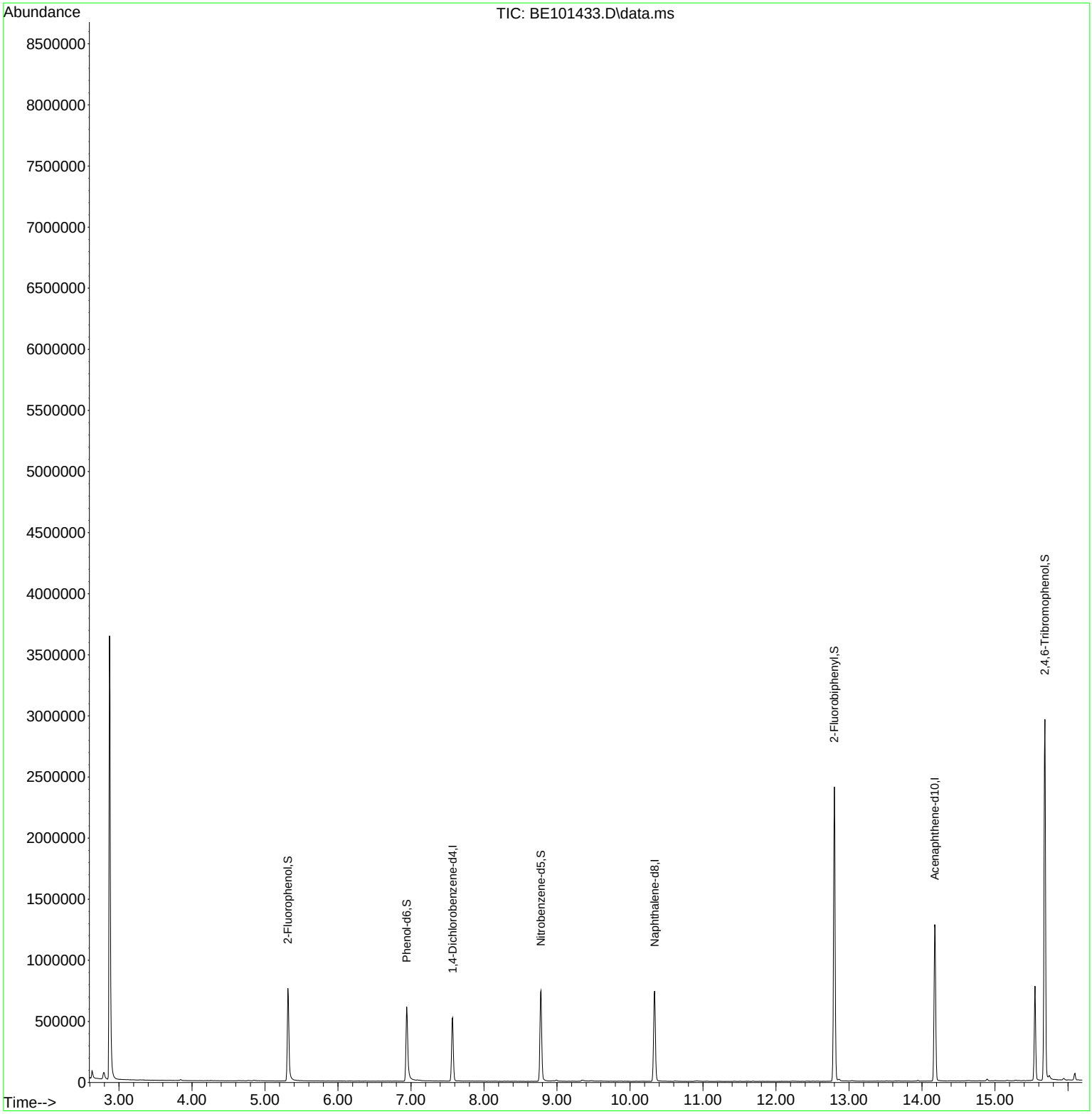
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.571	152	150057	20.000	ng	0.00
21) Naphthalene-d8	10.338	136	662069	20.000	ng	0.00
39) Acenaphthene-d10	14.175	164	470146	20.000	ng	0.00
64) Phenanthrene-d10	16.913	188	1206173	20.000	ng	0.00
76) Chrysene-d12	21.072	240	1598005	20.000	ng	0.00
86) Perylene-d12	23.364	264	2061054	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.314	112	383093	44.745	ng	0.00
7) Phenol-d6	6.942	99	429715	36.197	ng	0.00
23) Nitrobenzene-d5	8.781	82	456426	43.300	ng	0.00
42) 2,4,6-Tribromophenol	15.685	330	715545	86.836	ng	0.00
45) 2-Fluorobiphenyl	12.800	172	1268778	45.703	ng	0.00
79) Terphenyl-d14	19.509	244	3678322	52.978	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

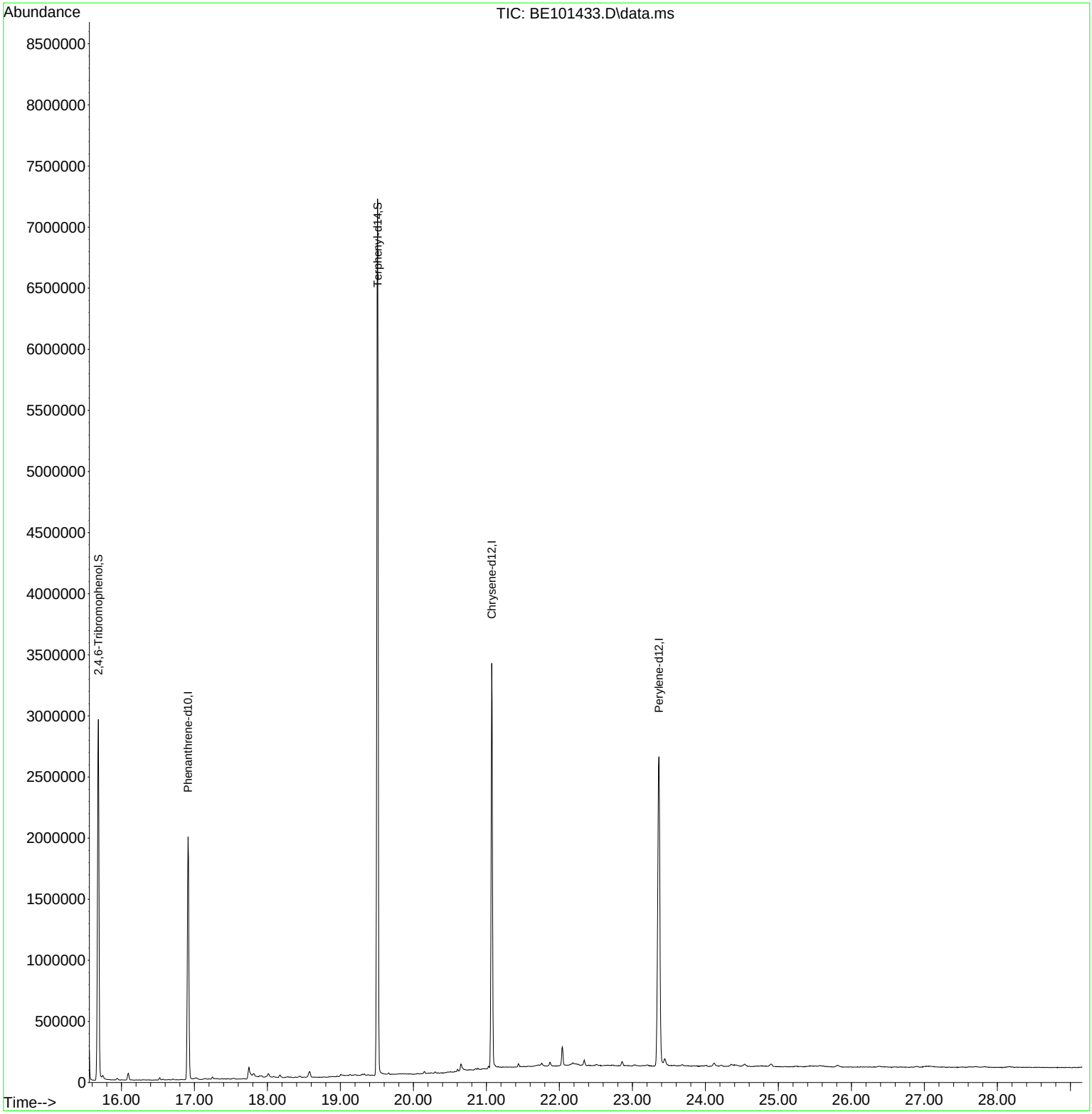
Quant Time: Oct 31 16:41:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

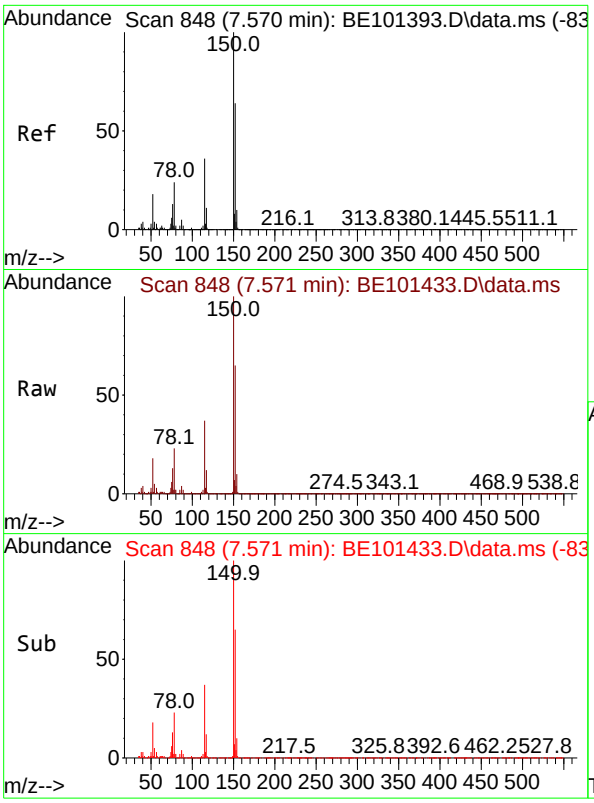


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Time: Oct 31 16:41:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



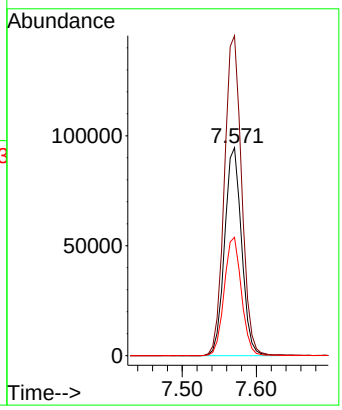


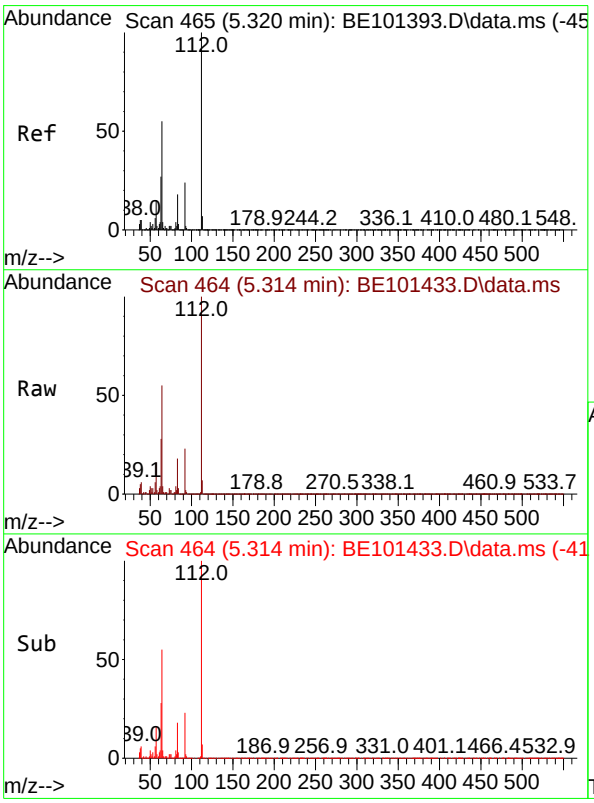
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.571 min Scan# 84
Delta R.T. 0.001 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion:152 Resp: 150057

Ion	Ratio	Lower	Upper
152	100		
150	153.9	124.2	186.4
115	57.0	45.3	67.9

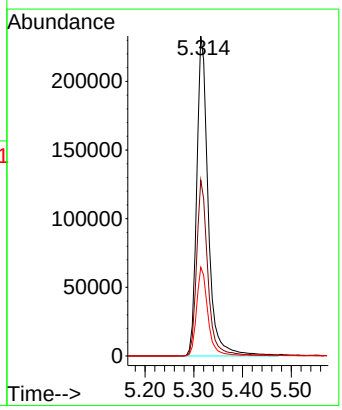


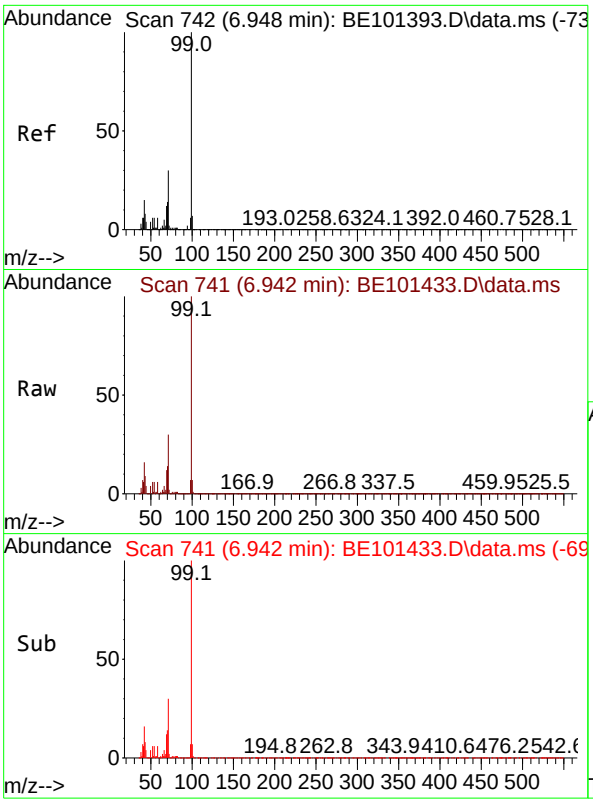


#5
2-Fluorophenol
Concen: 44.745 ng
RT: 5.314 min Scan# 464
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:112 Resp: 383093

Ion	Ratio	Lower	Upper
112	100		
64	55.0	43.7	65.5
63	27.7	21.4	32.2



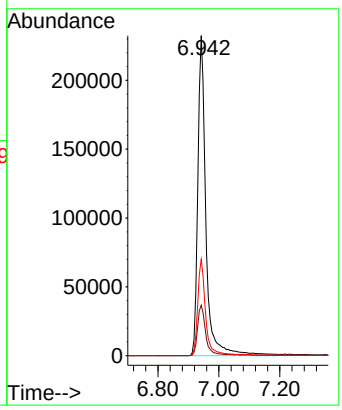


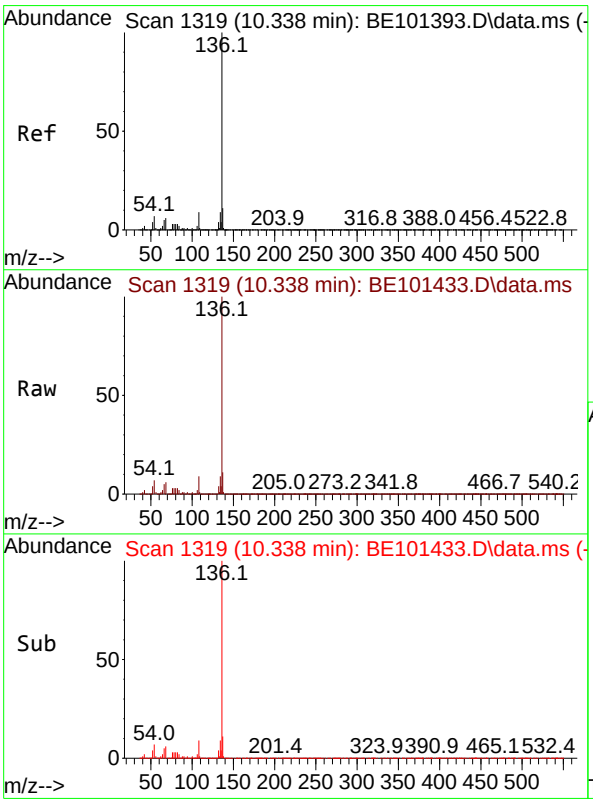
#7
Phenol-d6
Concen: 36.197 ng
RT: 6.942 min Scan# 7
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion: 99 Resp: 429715

Ion	Ratio	Lower	Upper
99	100		
42	15.7	12.3	18.5
71	30.1	23.8	35.8

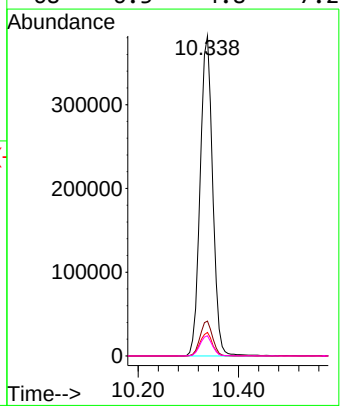


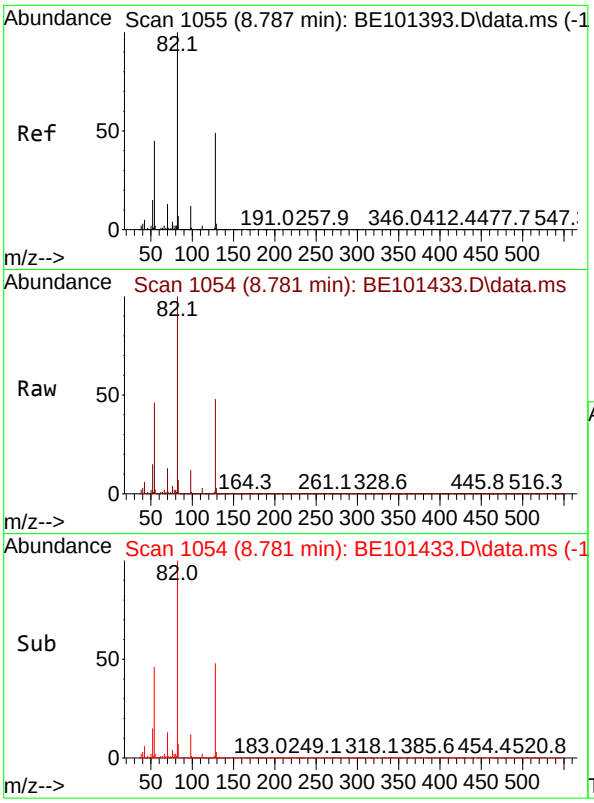


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.338 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:136 Resp: 662069

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.6
54	7.3	5.9	8.9
68	6.3	4.8	7.2



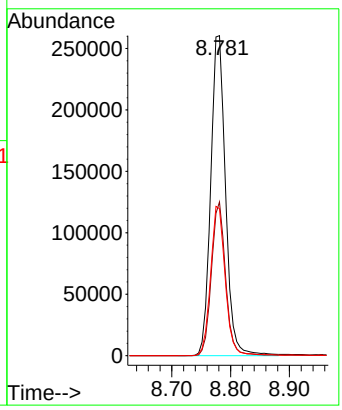


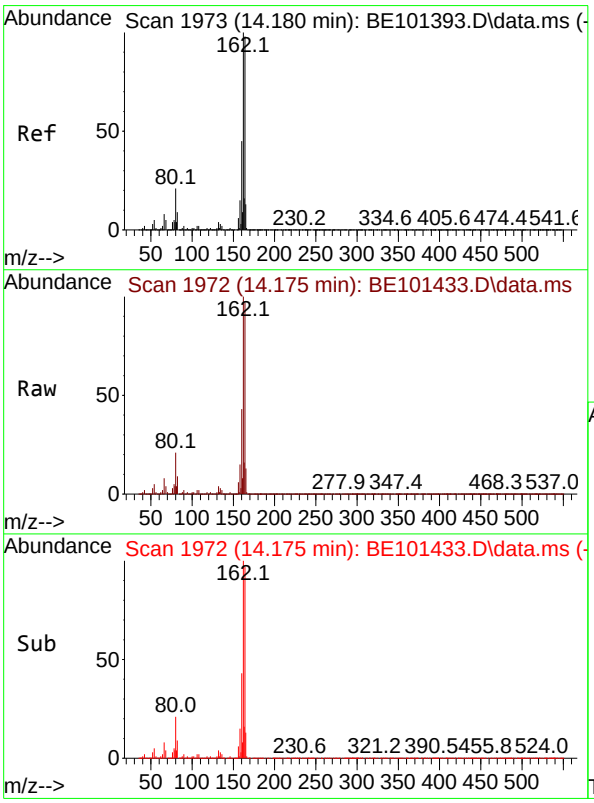
#23
Nitrobenzene-d5
Concen: 43.300 ng
RT: 8.781 min Scan# 1
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion: 82 Resp: 456426

Ion	Ratio	Lower	Upper
82	100		
128	48.1	38.9	58.3
54	46.0	36.2	54.4

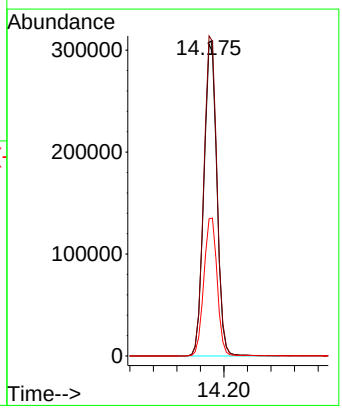


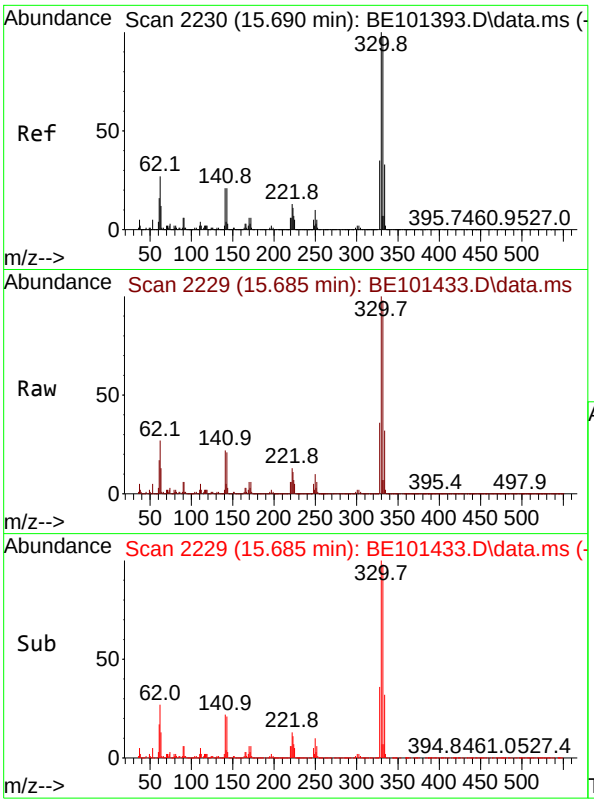


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.175 min Scan# 1972
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:164 Resp: 470146

Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.3	121.9
160	44.0	36.4	54.6



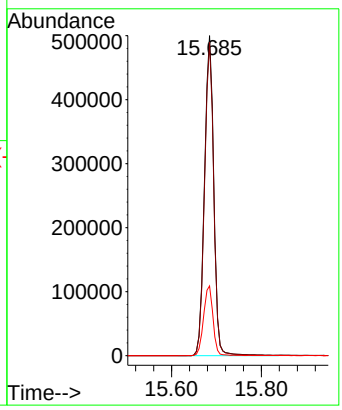


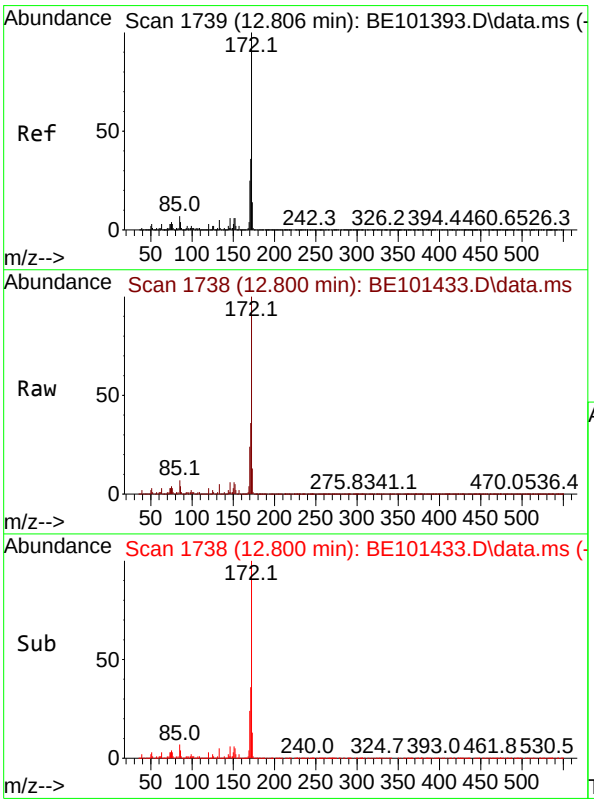
#42
2,4,6-Tribromophenol
Concen: 86.836 ng
RT: 15.685 min Scan# 2
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion:330 Resp: 715545

Ion	Ratio	Lower	Upper
330	100		
332	96.9	78.2	117.2
141	22.3	18.3	27.5

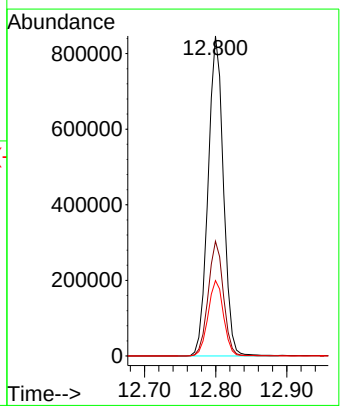


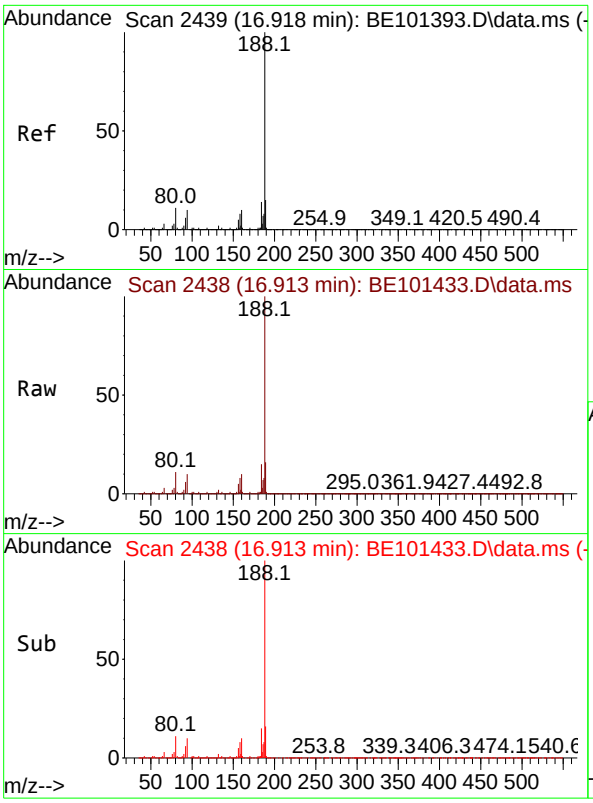


#45
2-Fluorobiphenyl
Concen: 45.703 ng
RT: 12.800 min Scan# 1738
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:172 Resp: 1268778

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.2	43.8
170	23.6	19.8	29.6



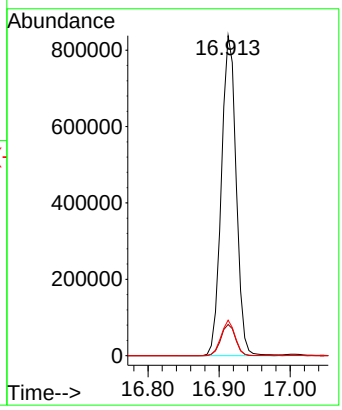


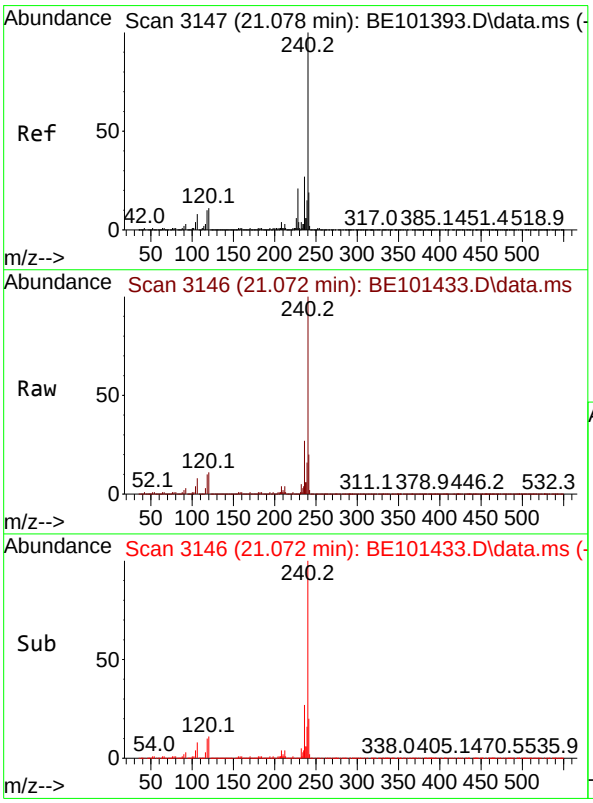
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.913 min Scan# 24
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion:188 Resp: 1206173

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.8	11.8
80	11.1	8.6	12.8

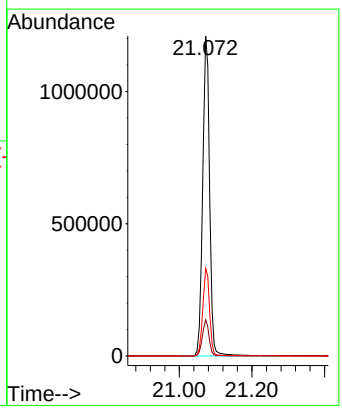


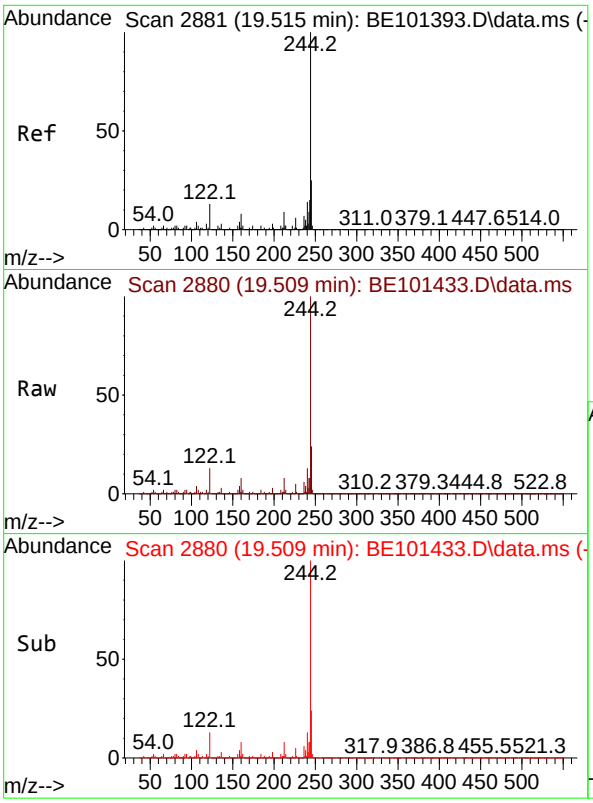


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.072 min Scan# 3146
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:240 Resp: 1598005

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.0	13.4
236	27.4	21.4	32.0



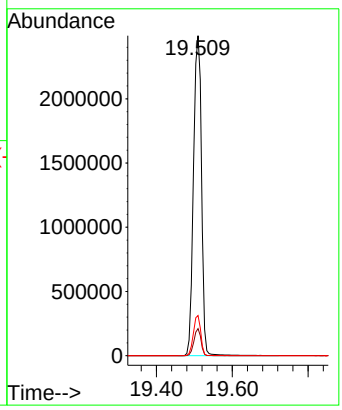


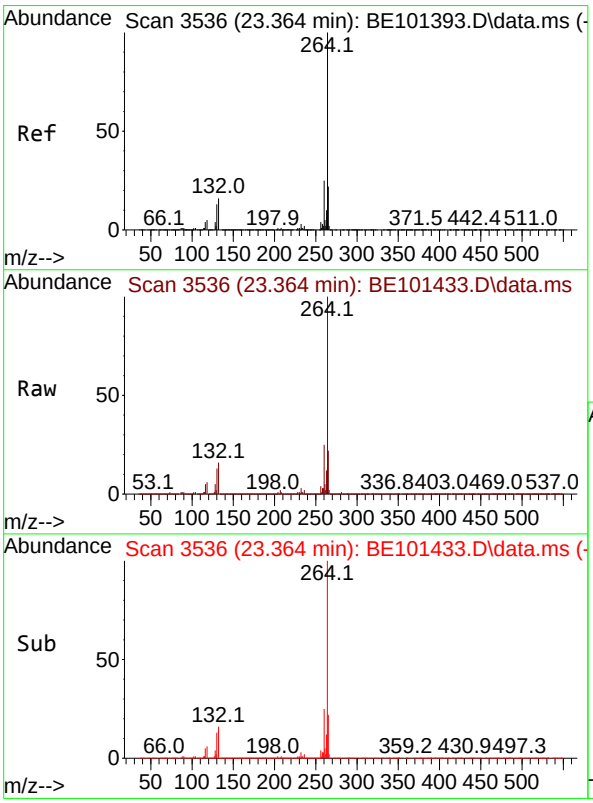
#79
Terphenyl-d14
Concen: 52.978 ng
RT: 19.509 min Scan# 2
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion:244 Resp: 3678322

Ion	Ratio	Lower	Upper
244	100		
212	8.5	7.2	10.8
122	12.6	10.4	15.6

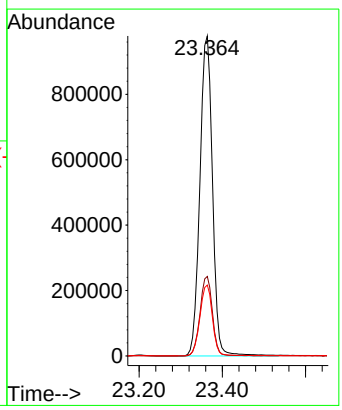




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.364 min Scan# 3536
Delta R.T. 0.000 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:264 Resp: 2061054

Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.8	29.8
265	22.2	17.6	26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BE101433.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.870	44	48	72	rVB	3630862	4594554	46.45%	10.445%
2	5.314	458	464	486	rBV	758572	1240275	12.54%	2.820%
3	6.942	734	741	763	rBV	609108	1151228	11.64%	2.617%
4	7.571	840	848	859	rBV	518309	841149	8.50%	1.912%
5	8.781	1046	1054	1072	rBV	742963	1292362	13.07%	2.938%
6	10.338	1309	1319	1331	rBV	739119	1290144	13.04%	2.933%
7	12.800	1731	1738	1746	rBV	2409668	3577692	36.17%	8.133%
8	14.175	1964	1972	1987	rBV	1281212	1995234	20.17%	4.536%
9	15.549	2200	2206	2220	rVB	770293	1018673	10.30%	2.316%
10	15.685	2222	2229	2236	rBV	2951375	4247174	42.94%	9.655%
11	16.913	2432	2438	2448	rBV	1986401	2847391	28.79%	6.473%
12	17.747	2574	2580	2587	rBV2	95443	209975	2.12%	0.477%
13	19.509	2874	2880	2892	rBV	7167847	9891069	100.00%	22.486%
14	20.649	3071	3074	3082	rBV2	53357	100576	1.02%	0.229%
15	21.072	3141	3146	3156	rBV	3307247	4286208	43.33%	9.744%
16	22.042	3307	3311	3317	rVB	148943	199046	2.01%	0.453%
17	23.364	3527	3536	3545	rBV	2528901	5205262	52.63%	11.833%

Sum of corrected areas: 43988012

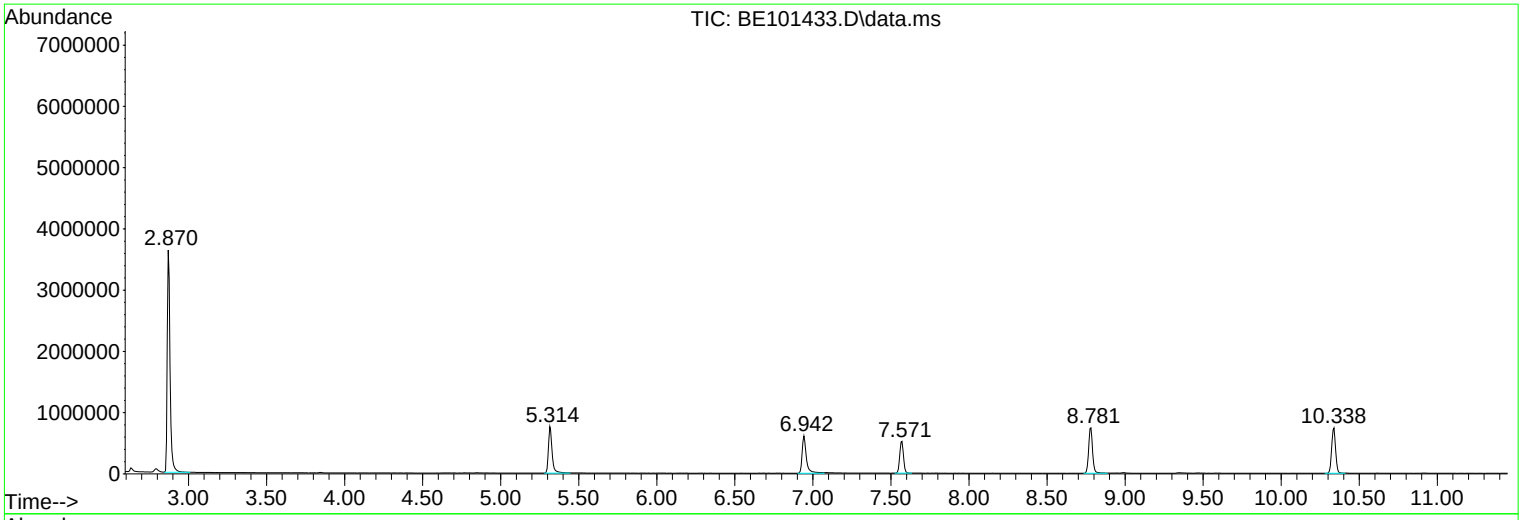
Sample Results: **BE101433.D**

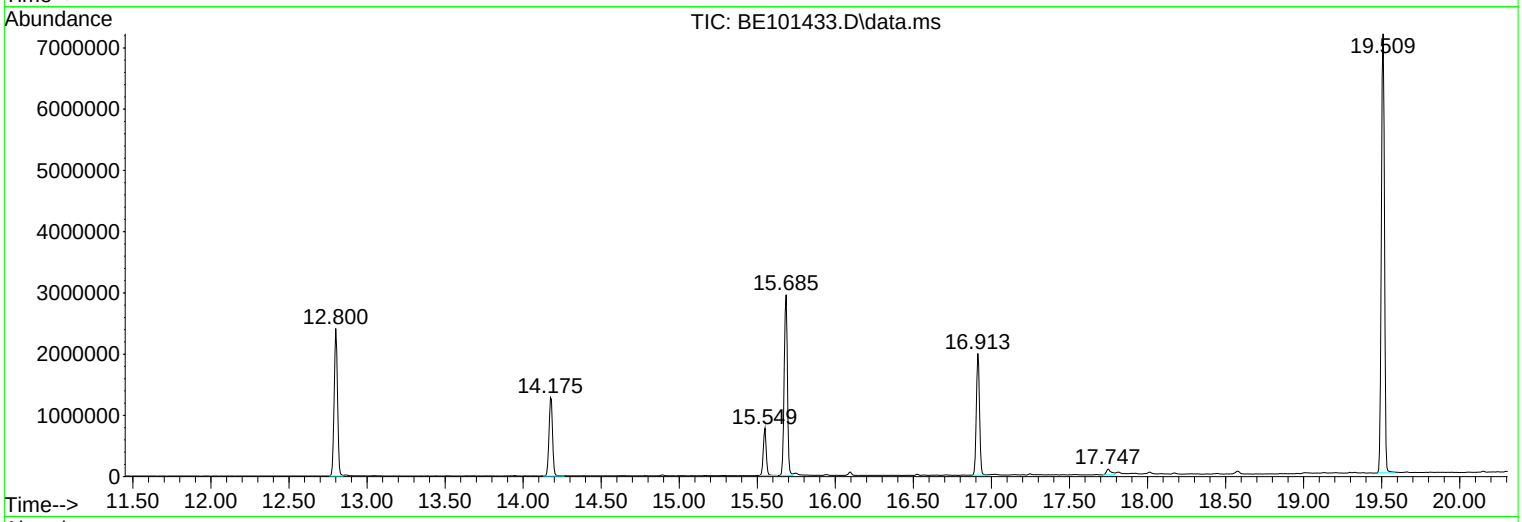
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

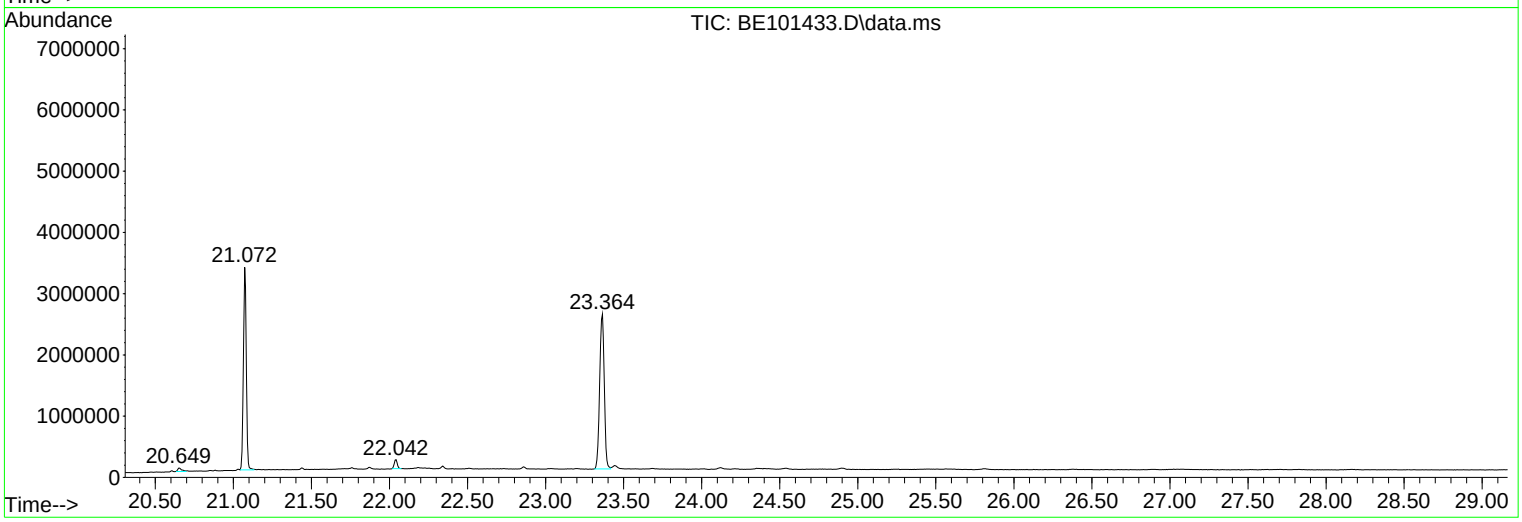
Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

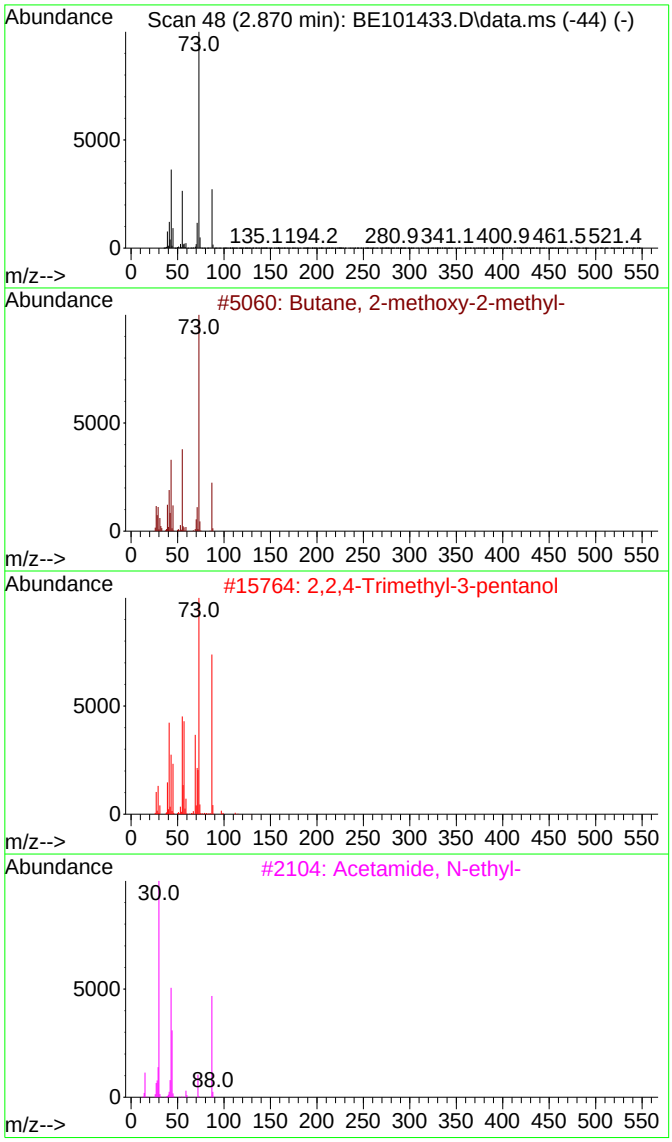
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

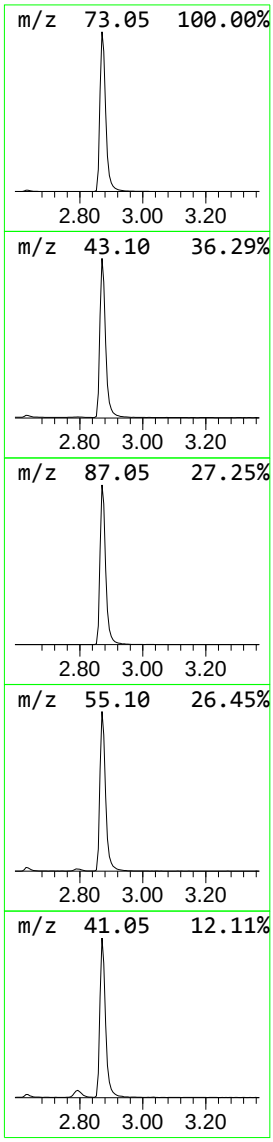
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.870	109.25 ng	4594550	1,4-Dichlorobenzene-d4	7.571

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

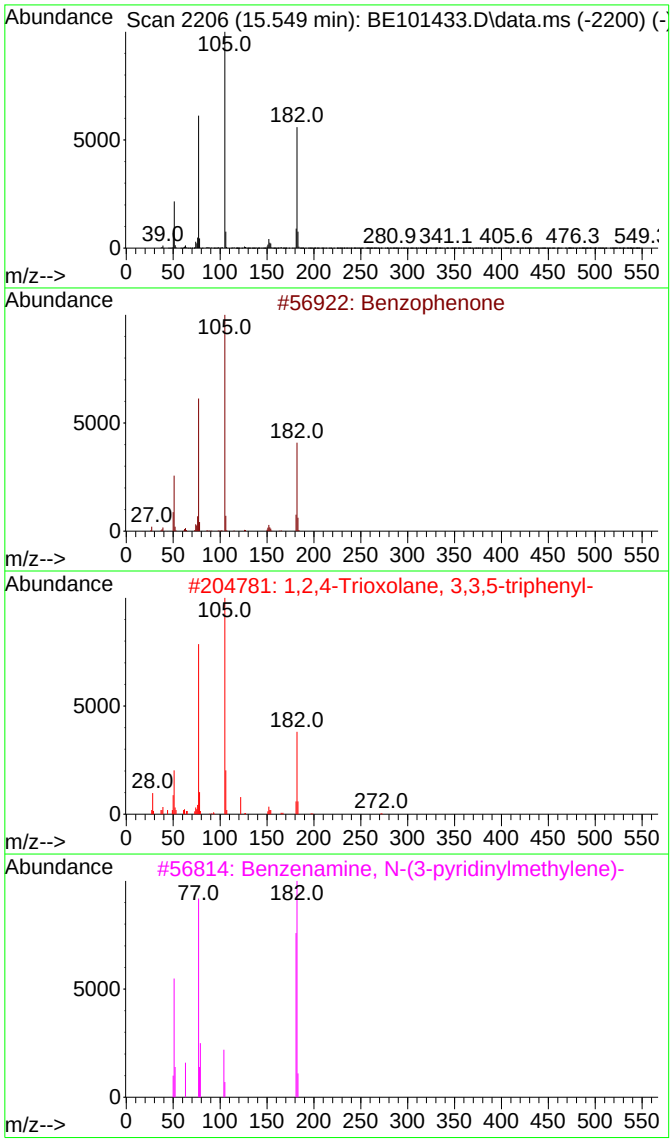
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

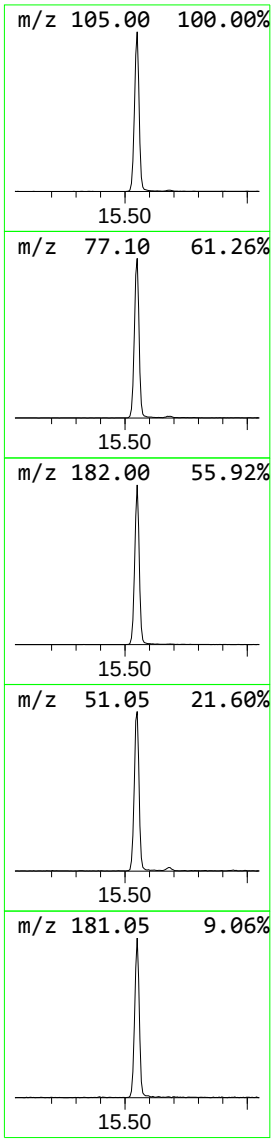
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Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.549	7.16 ng	1018670	Phenanthrene-d10	16.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	1,2,4-Trioxolane, 3,3,5-triphenyl-	304	C20H16O3	023246-12-0	64
3	Benzenamine, N-(3-pyridinylmethy...	182	C12H10N2	029722-97-2	42
4	1,2,4-Triazolo[4,3-b]pyridazine,...	182	C7H7ClN4	028593-26-2	38
5	Azobenzene	182	C12H10N2	000103-33-3	37





Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.870	109.3	ng	4594550	1	7.571	841149	20.0
Benzophenone	15.549	7.2	ng	1018670	4	16.913	2847390	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140207.D
Acq On : 01 Nov 2024 12:33
Operator : RC/JU
Sample : P4578-02RE
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Quant Time: Nov 01 13:16:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

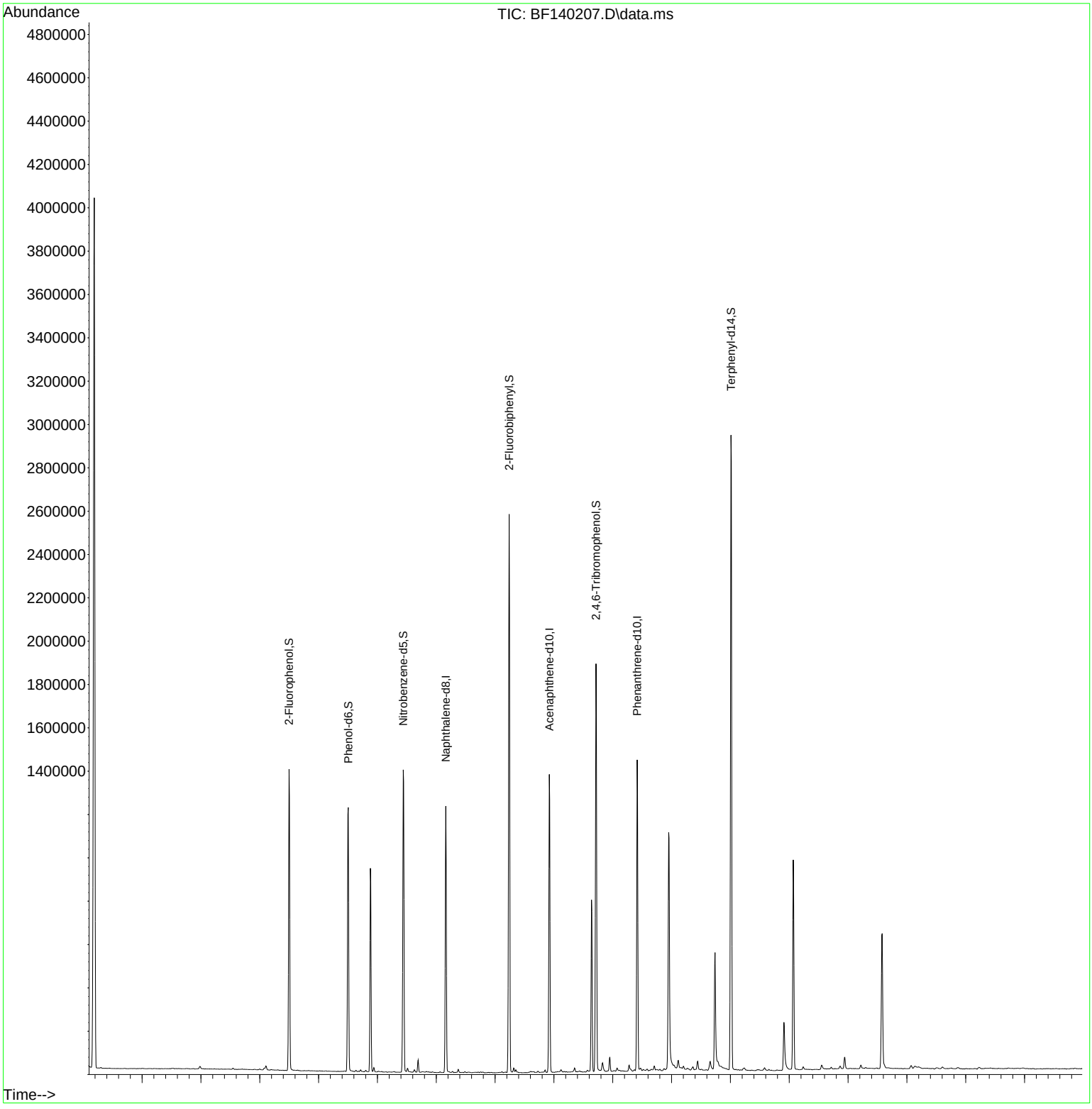
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	186612	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	733188	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	415849	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	750159	20.000	ng	0.00
76) Chrysene-d12	14.068	240	460215	20.000	ng	0.02
86) Perylene-d12	15.580	264	381772	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	486703	40.830	ng	0.00
7) Phenol-d6	6.504	99	545169	35.312	ng	0.00
23) Nitrobenzene-d5	7.439	82	639007	48.304	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	323842	83.256	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1165500	46.320	ng	-0.01
79) Terphenyl-d14	13.010	244	1531195	54.215	ng	0.01
Target Compounds						Qvalue

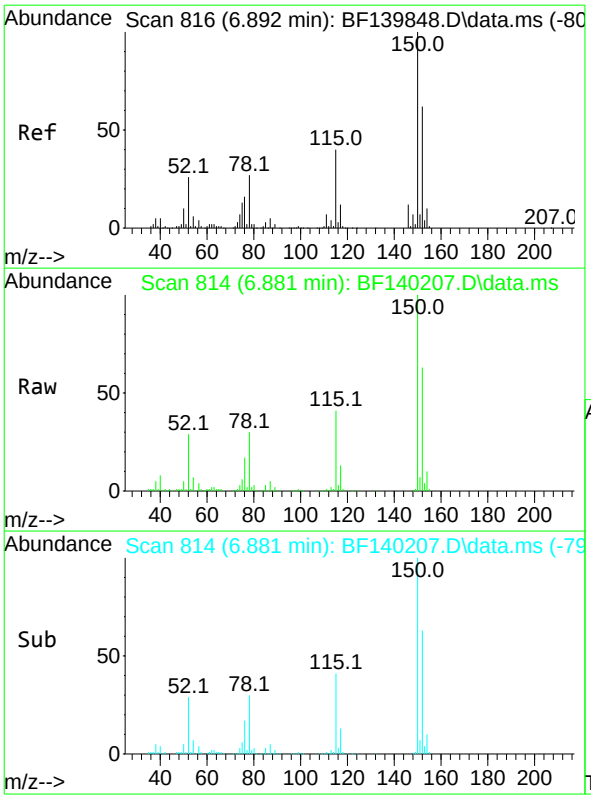
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140207.D
Acq On : 01 Nov 2024 12:33
Operator : RC/JU
Sample : P4578-02RE
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Quant Time: Nov 01 13:16:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



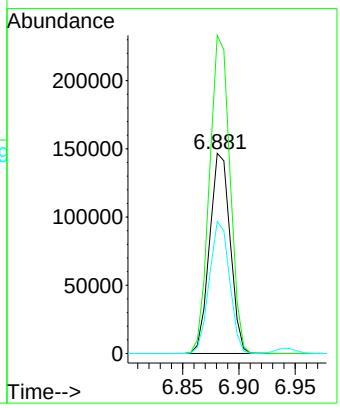


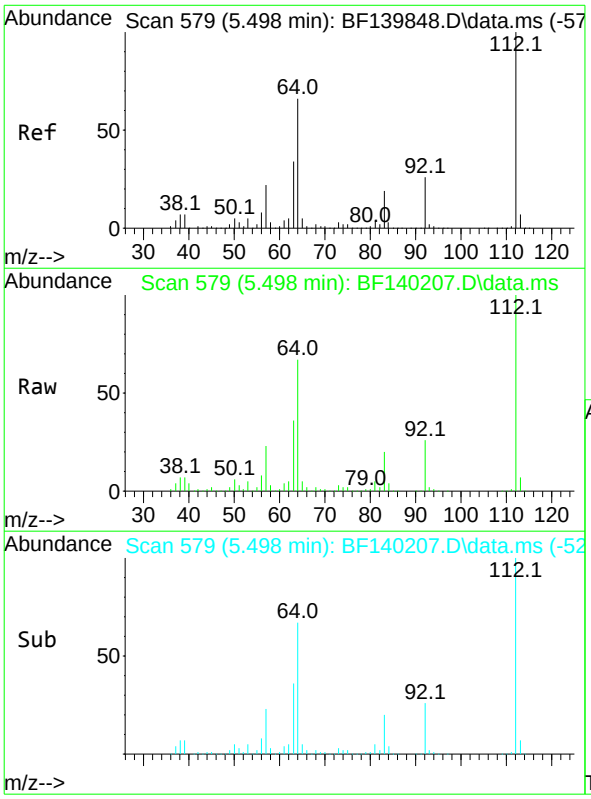
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion:152 Resp: 186612

Ion	Ratio	Lower	Upper
152	100		
150	158.9	130.2	195.2
115	65.9	51.4	77.2

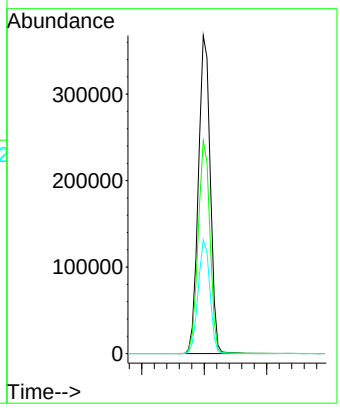


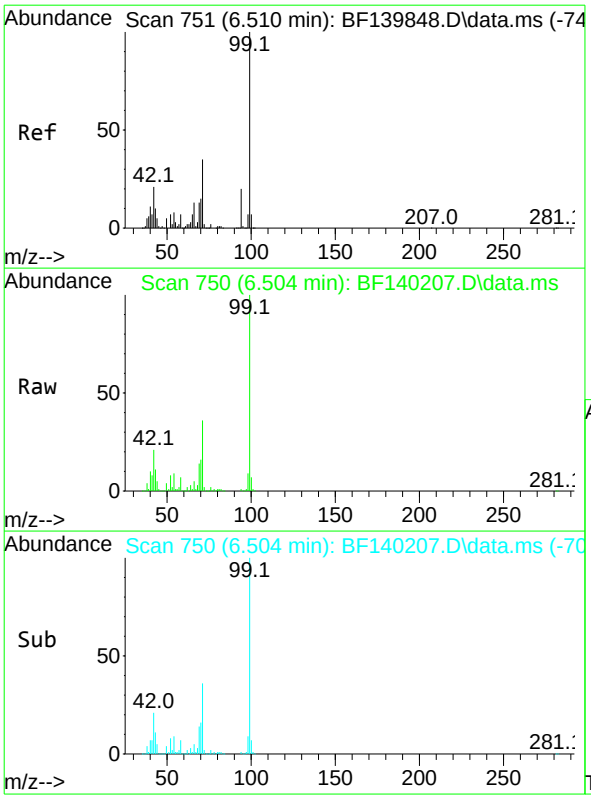


#5
2-Fluorophenol
Concen: 40.830 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:112 Resp: 486703

Ion	Ratio	Lower	Upper
112	100		
64	67.0	53.0	79.6
63	35.7	27.0	40.4



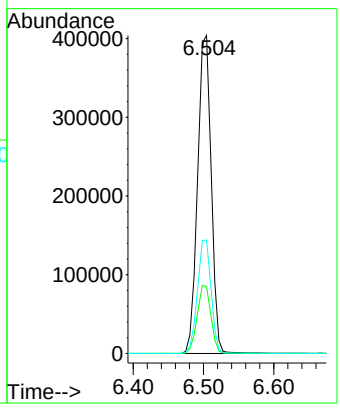


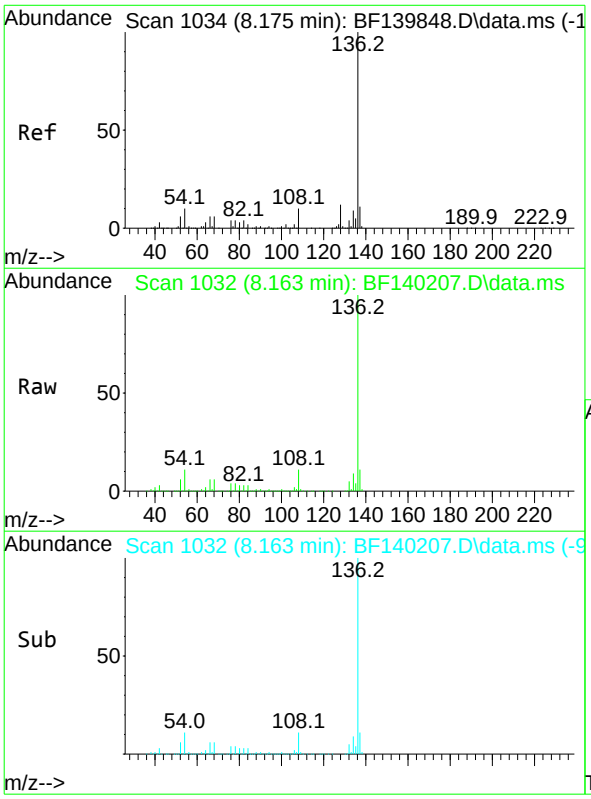
#7
Phenol-d6
Concen: 35.312 ng
RT: 6.504 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion: 99 Resp: 545169

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.7	25.1
71	35.7	27.7	41.5

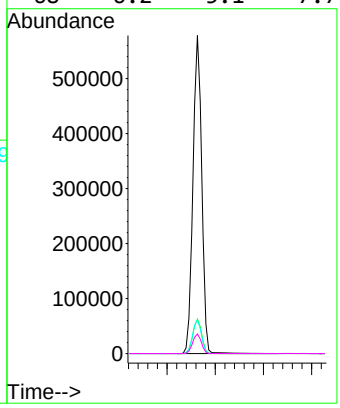


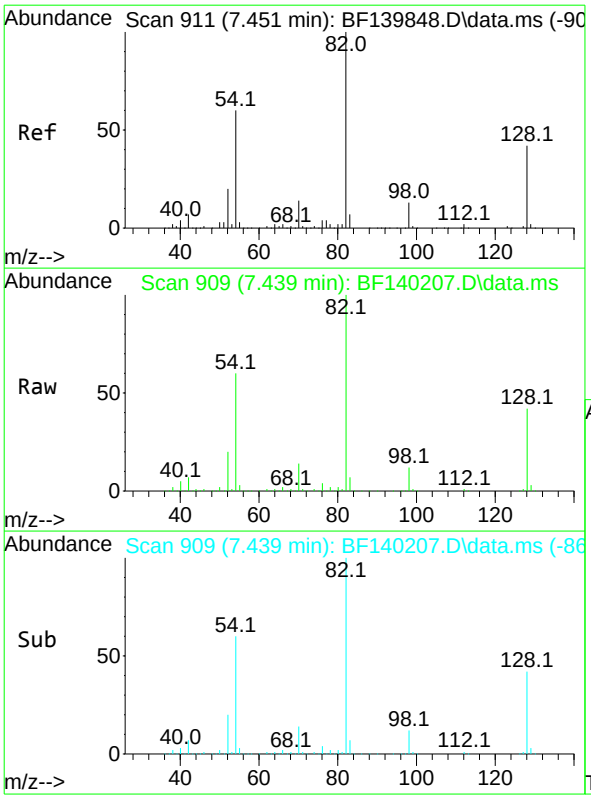


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:136 Resp: 733188

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.6	8.4	12.6
68	6.2	5.1	7.7



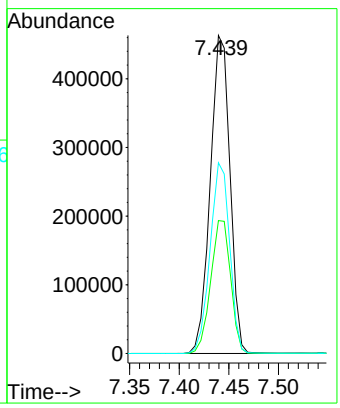


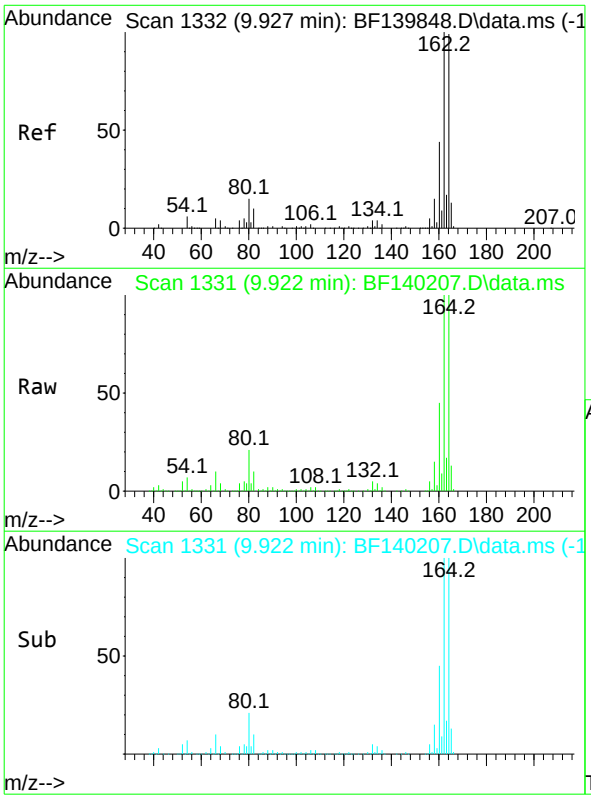
#23
Nitrobenzene-d5
Concen: 48.304 ng
RT: 7.439 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion: 82 Resp: 639007

Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.4	50.0
54	60.0	47.8	71.8

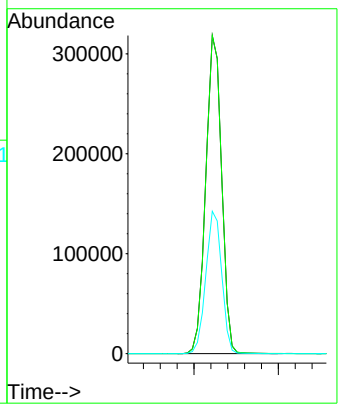


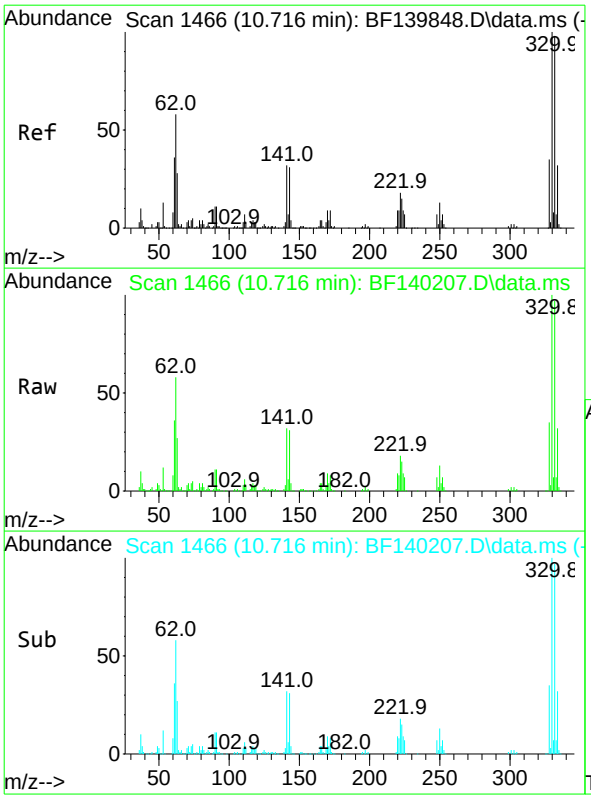


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:164 Resp: 415849

Ion	Ratio	Lower	Upper
164	100		
162	99.9	81.0	121.4
160	44.8	35.4	53.0



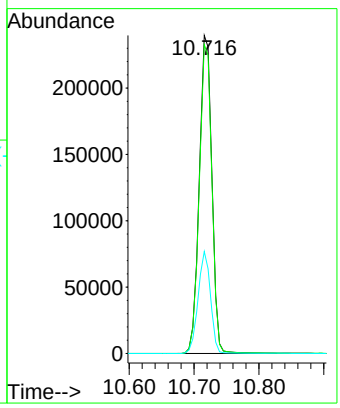


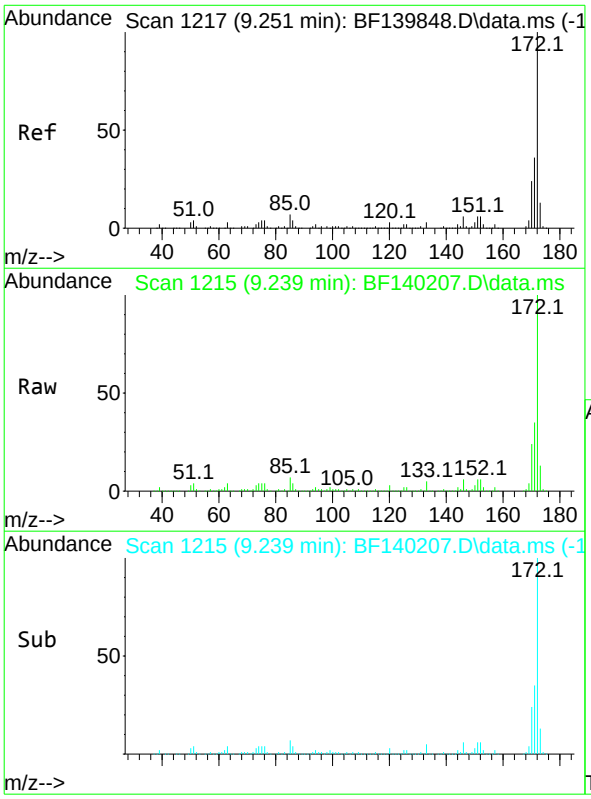
#42
2,4,6-Tribromophenol
Concen: 83.256 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion:330 Resp: 323842

Ion	Ratio	Lower	Upper
330	100		
332	97.3	78.1	117.1
141	31.7	26.6	39.8

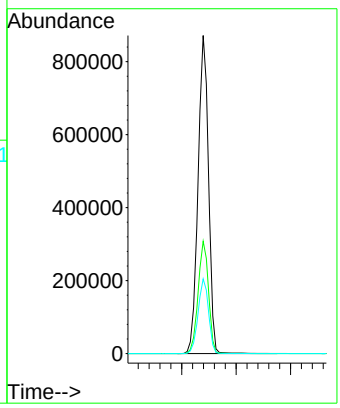


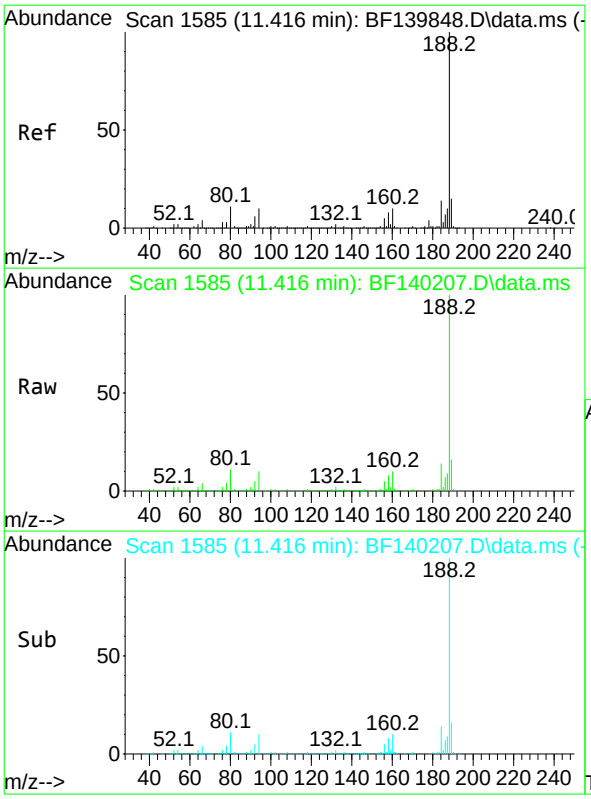


#45
2-Fluorobiphenyl
Concen: 46.320 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:172 Resp: 1165500

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.5	19.1	28.7



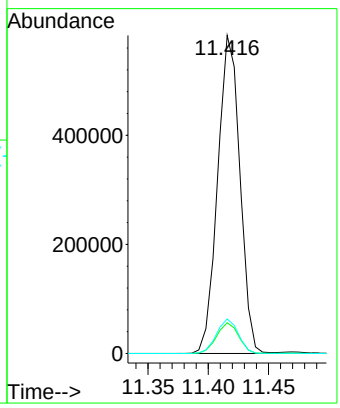


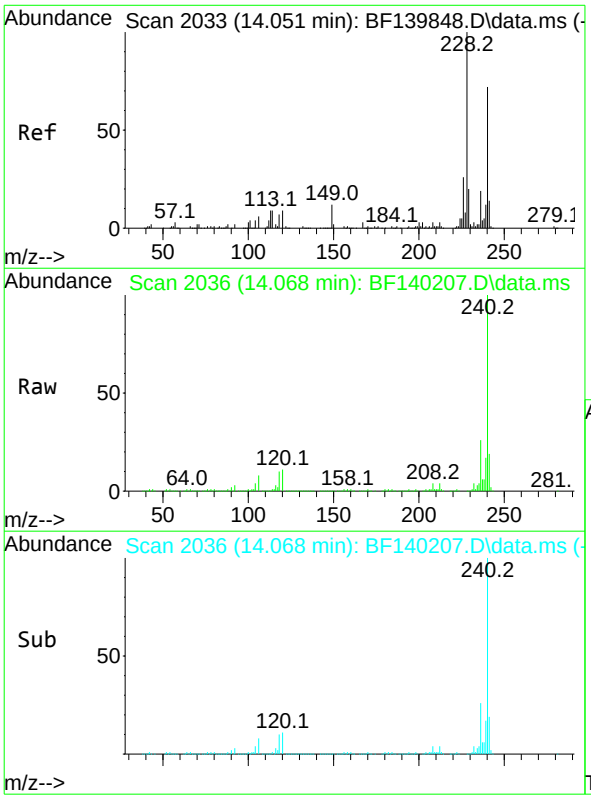
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 15
Delta R.T. 0.000 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion:188 Resp: 750159

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.9	11.9
80	10.9	9.0	13.4

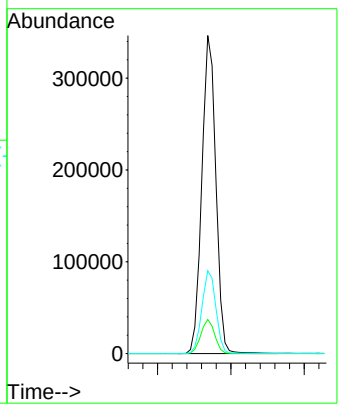


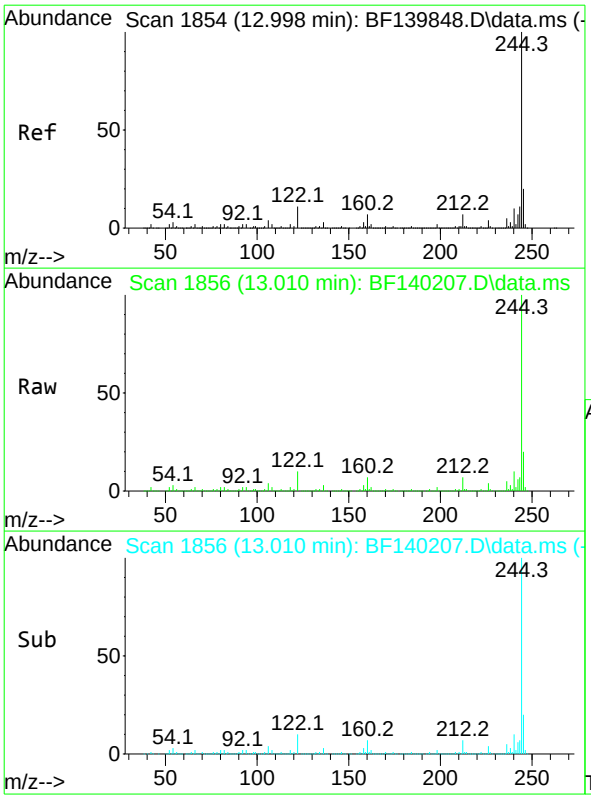


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:240 Resp: 460215

Ion	Ratio	Lower	Upper
240	100		
120	10.7	9.4	14.2
236	26.0	20.9	31.3



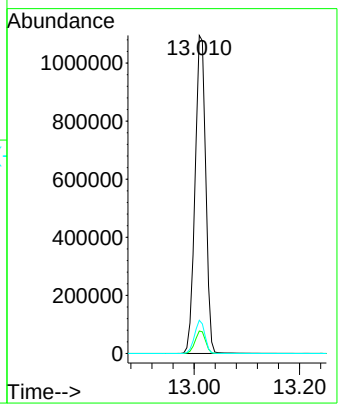


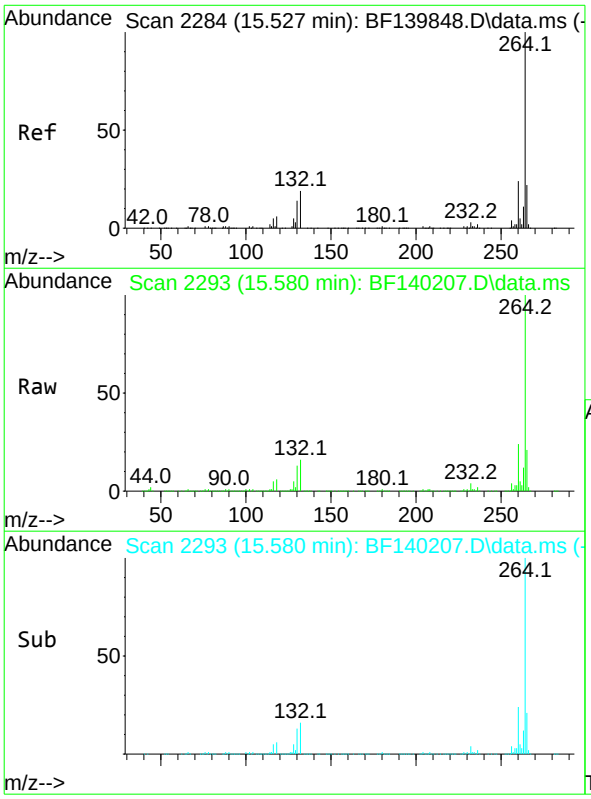
#79
Terphenyl-d14
Concen: 54.215 ng
RT: 13.010 min Scan# 18
Delta R.T. 0.012 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion:244 Resp: 1531195

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	10.5	8.6	13.0

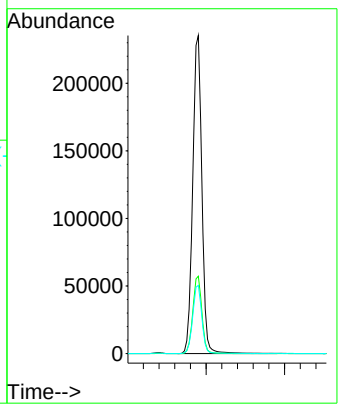




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.580 min Scan# 2293
Delta R.T. 0.053 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:264 Resp: 381772

Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.2
265	21.4	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 15:07:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	110861	20.000	ng		-0.01
21) Naphthalene-d8	8.163	136	423380	20.000	ng		-0.01
39) Acenaphthene-d10	9.922	164	224222	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	363381	20.000	ng		0.00
76) Chrysene-d12	14.069	240	172346	20.000	ng		0.02
86) Perylene-d12	15.580	264	220971	20.000	ng		0.05
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	568333	80.255	ng		0.00
7) Phenol-d6	6.498	99	721823	78.701	ng		-0.01
23) Nitrobenzene-d5	7.440	82	475473	62.243	ng		-0.01
42) 2,4,6-Tribromophenol	10.716	330	165073	78.707	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	788942	58.151	ng		-0.01
79) Terphenyl-d14	13.010	244	641093	60.613	ng		0.01
Target Compounds							Qvalue
31) Naphthalene	8.181	128	75308	3.449	ng		99
37) 2-Methylnaphthalene	8.875	142	41754	3.122	ng		96
38) 1-Methylnaphthalene	8.975	142	44934	3.425	ng		98
52) Acenaphthene	9.957	154	35905	3.054	ng		94
58) Fluorene	10.469	166	33528	2.610	ng	#	95
71) Phenanthrene	11.439	178	177240	10.326	ng		100
72) Anthracene	11.492	178	73441	4.385	ng		98
75) Fluoranthene	12.633	202	169924	9.793	ng		98
78) Pyrene	12.863	202	207813	13.775	ng		99
81) Benzo(a)anthracene	14.057	228	100152	8.927	ng	#	78
83) Chrysene	14.092	228	95672	9.301	ng	#	94
87) Indeno(1,2,3-cd)pyrene	17.098	276	42053	2.958	ng		97
88) Benzo(b)fluoranthene	15.139	252	86587m	6.433	ng		
89) Benzo(k)fluoranthene	15.157	252	29472m	2.539	ng		
90) Benzo(a)pyrene	15.515	252	94161	8.501	ng		96
92) Benzo(g,h,i)perylene	17.551	276	43282	3.654	ng		97

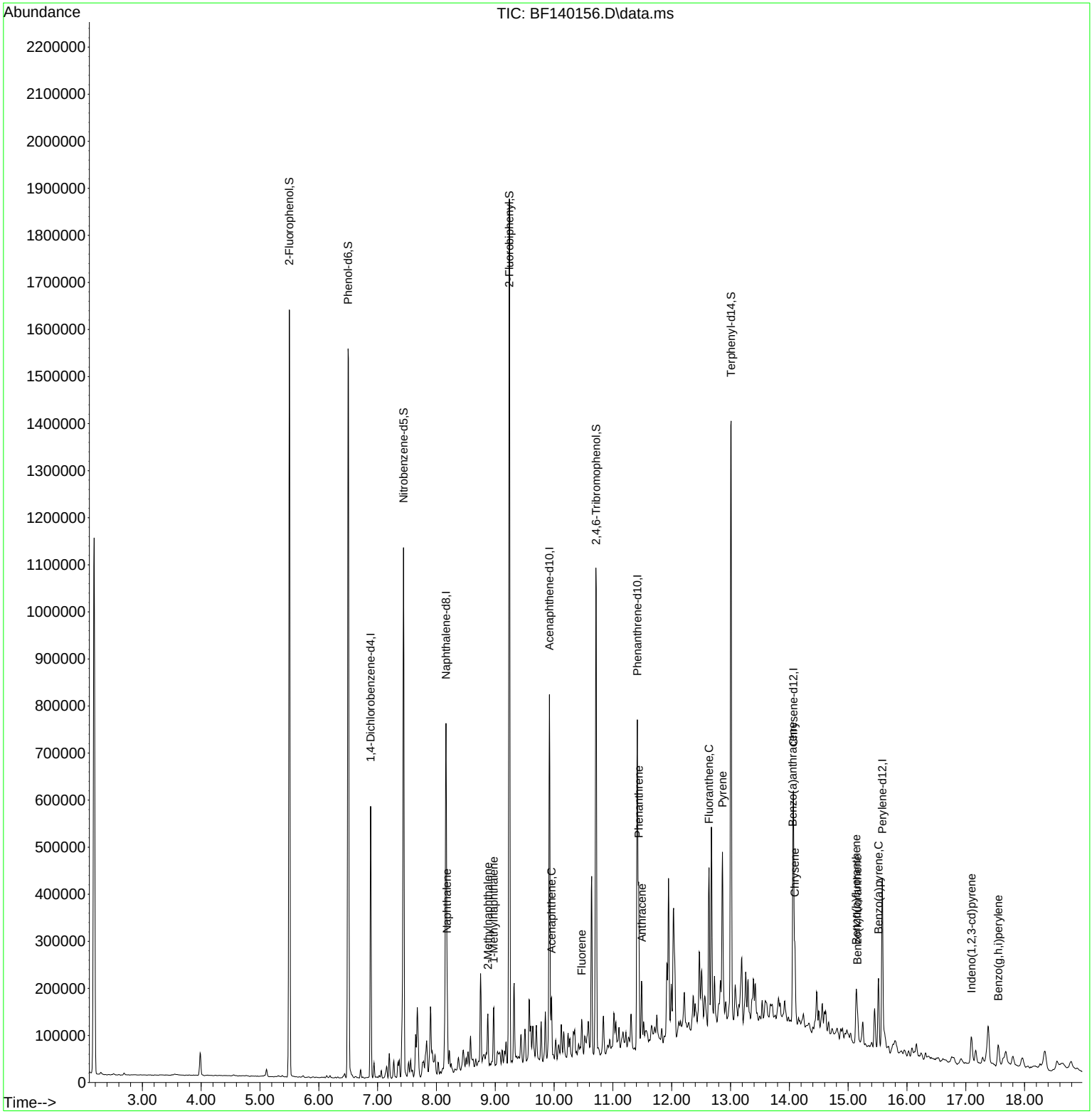
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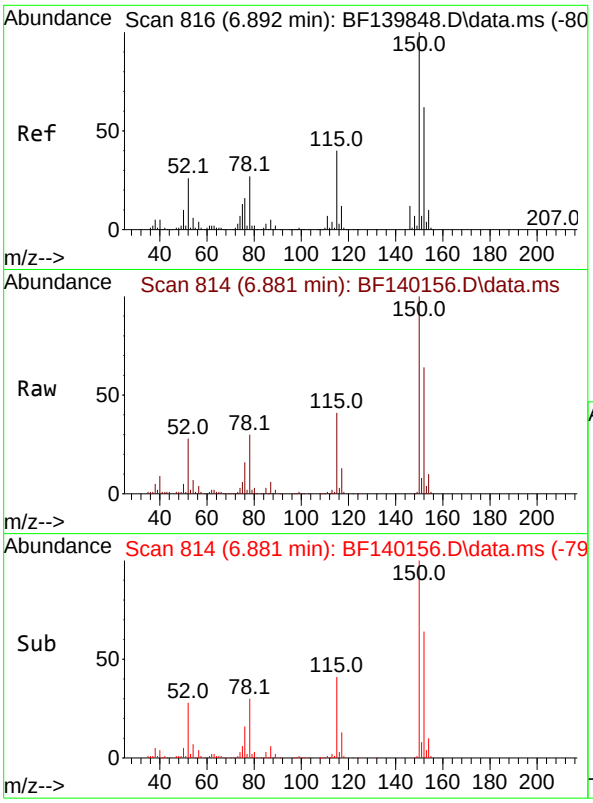
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Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 15:07:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

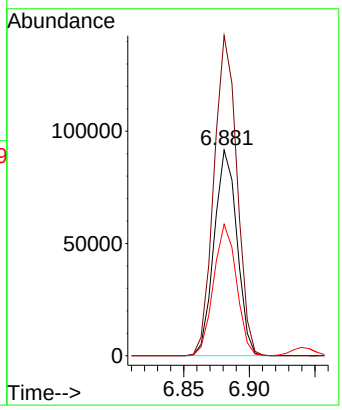




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

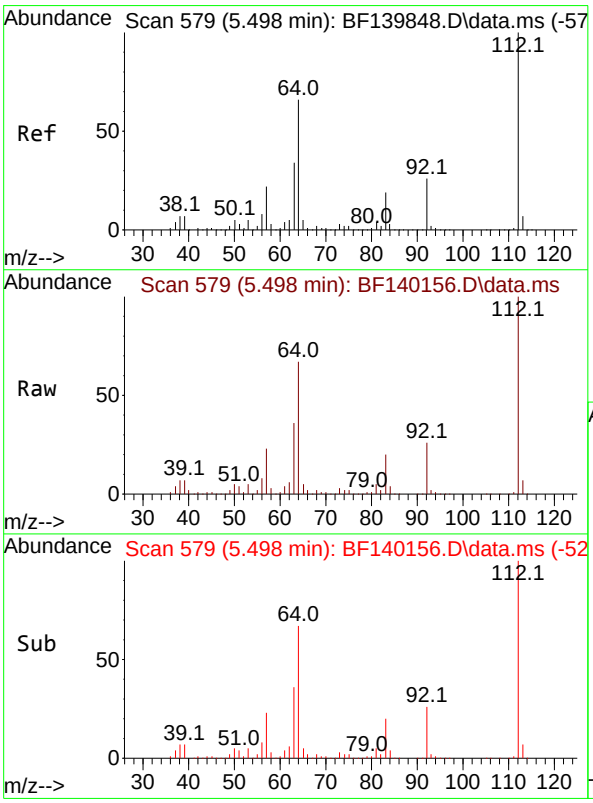
Tgt Ion:152 Resp: 11086

Ion	Ratio	Lower	Upper
152	100		
150	155.6	130.2	195.2
115	63.9	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

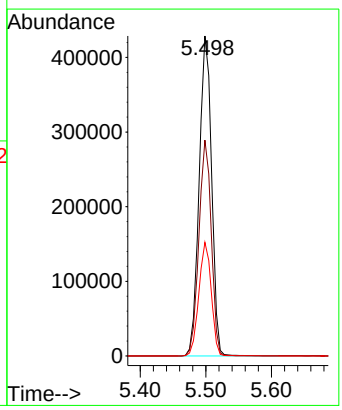
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

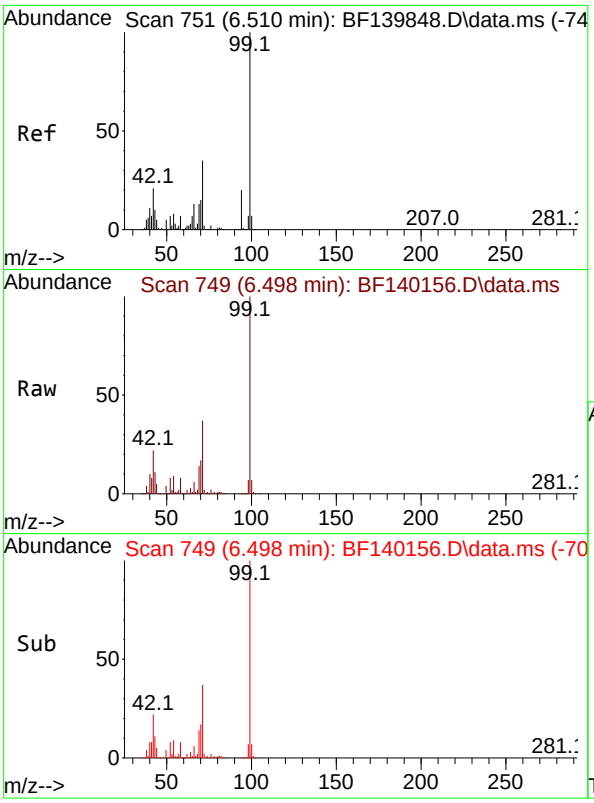


#5
2-Fluorophenol
Concen: 80.255 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:112 Resp: 568333

Ion	Ratio	Lower	Upper
112	100		
64	67.4	53.0	79.6
63	35.5	27.0	40.4

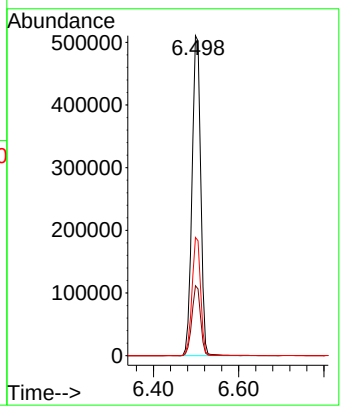




#7
Phenol-d6
Concen: 78.701 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion: 99 Resp: 72182

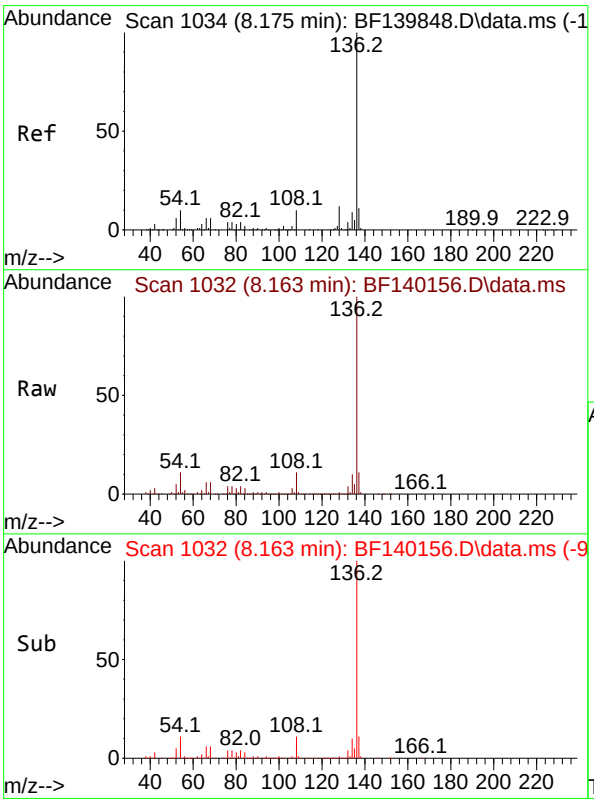
Ion	Ratio	Lower	Upper
99	100		
42	21.9	16.7	25.1
71	36.9	27.7	41.5



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations APPROVED

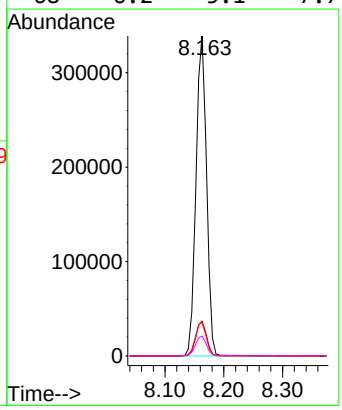
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

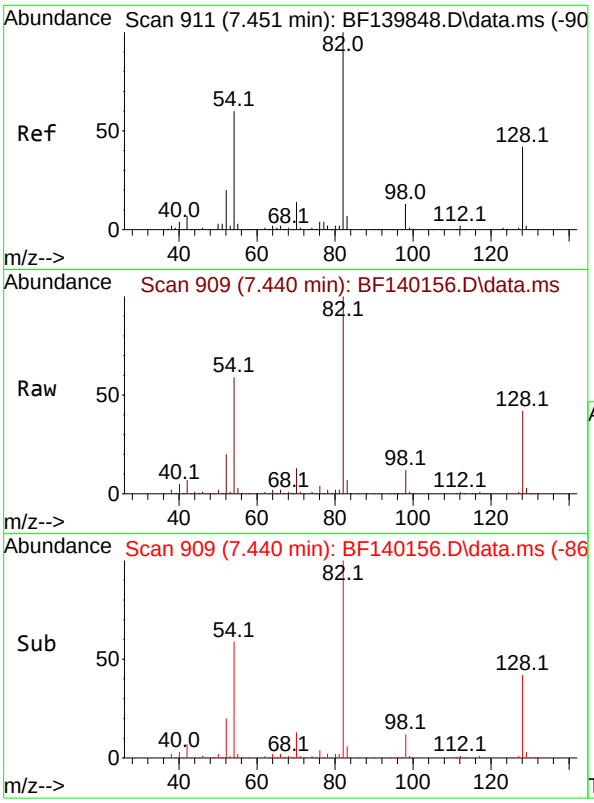


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:136 Resp: 423380

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.5	8.4	12.6
68	6.2	5.1	7.7

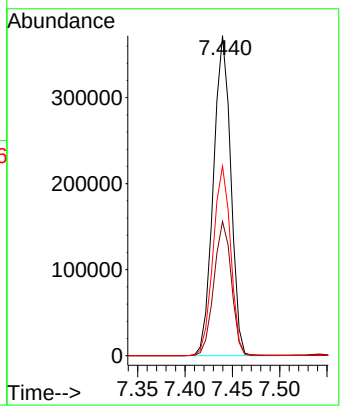




#23
Nitrobenzene-d5
Concen: 62.243 ng
RT: 7.440 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

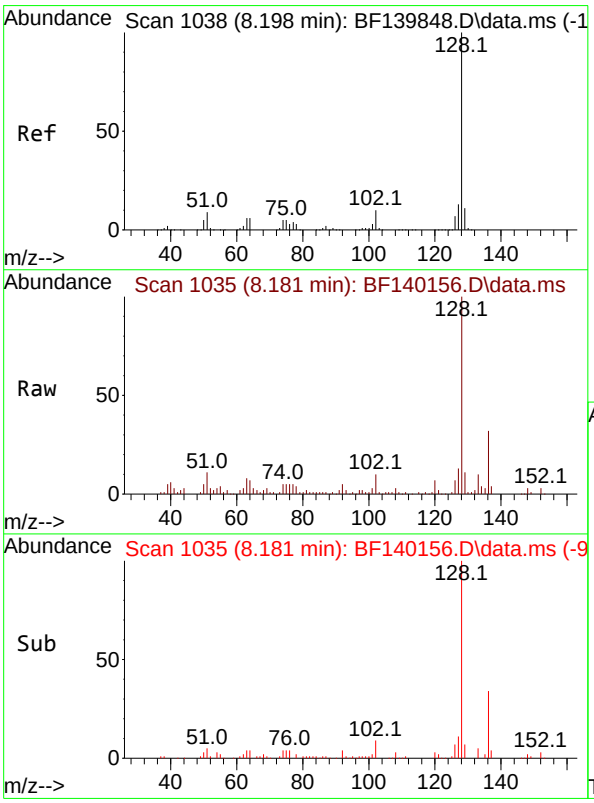
Tgt Ion: 82 Resp: 47547

Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.4	50.0
54	59.2	47.8	71.8



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

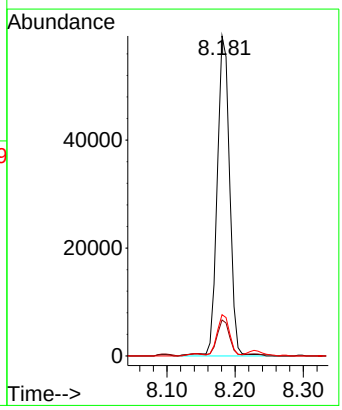
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

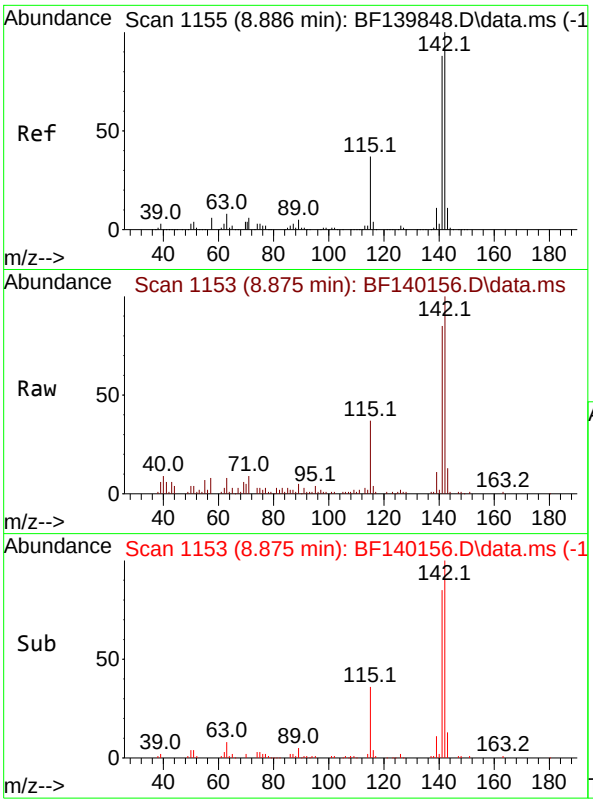


#31
Naphthalene
Concen: 3.449 ng
RT: 8.181 min Scan# 1035
Delta R.T. -0.017 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:128 Resp: 75308

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	12.9	10.6	16.0

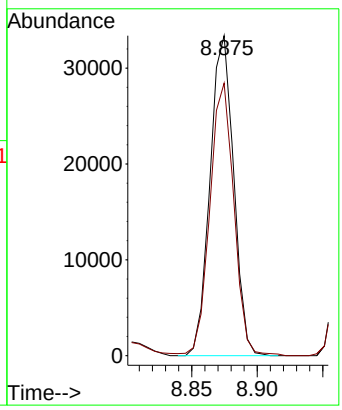




#37
2-Methylnaphthalene
Concen: 3.122 ng
RT: 8.875 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:142 Resp: 4175

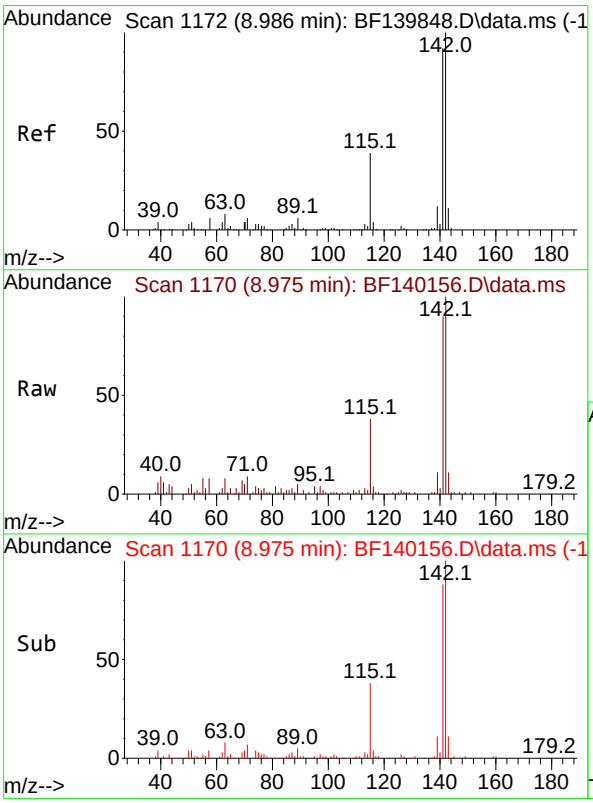
Ion	Ratio	Lower	Upper
142	100		
141	85.2	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

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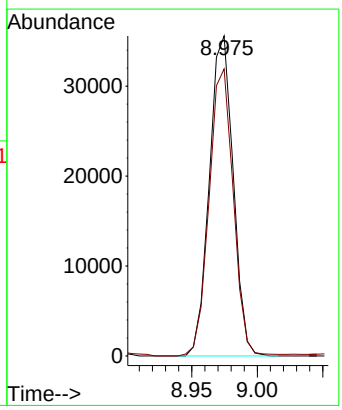
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

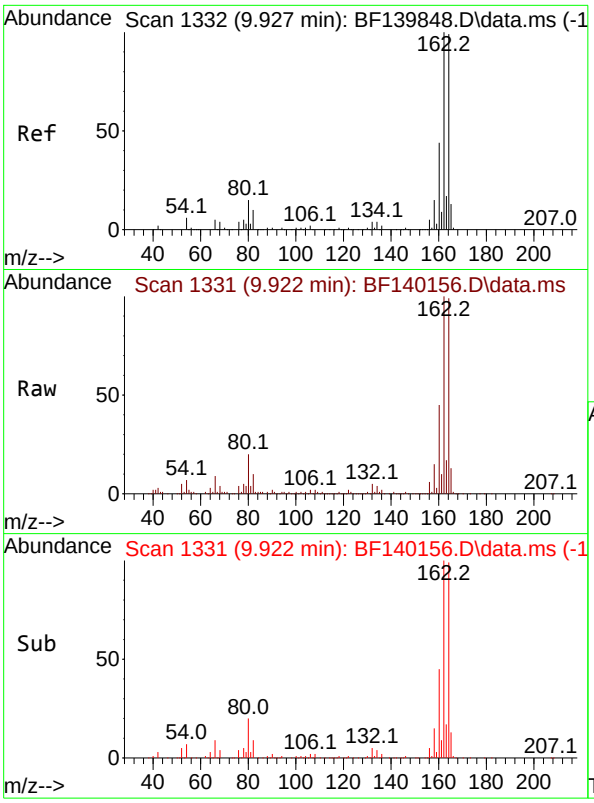


#38
1-Methylnaphthalene
Concen: 3.425 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:142 Resp: 44934

Ion	Ratio	Lower	Upper
142	100		
141	89.7	73.5	110.3

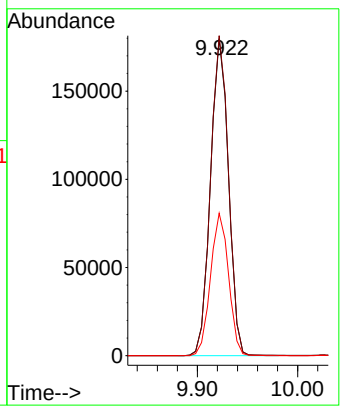




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

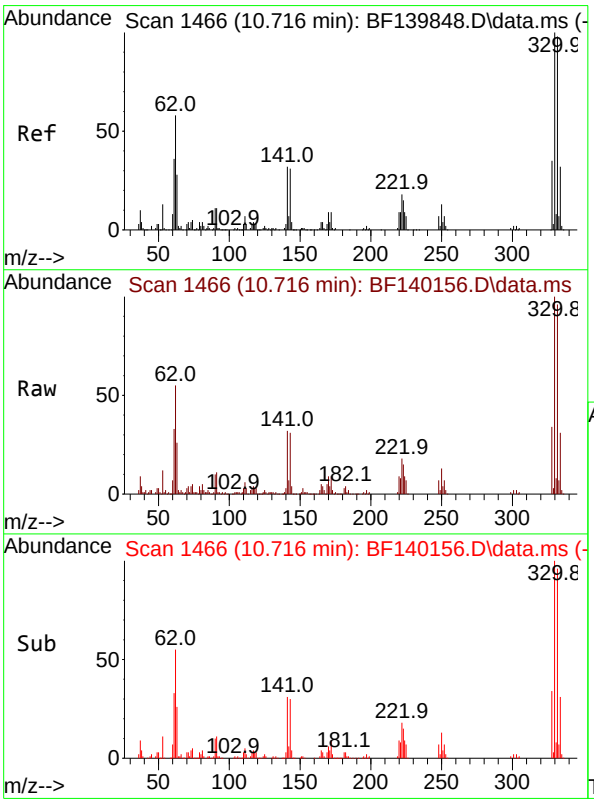
Tgt Ion:164 Resp: 22422

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.0	121.4
160	44.9	35.4	53.0



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

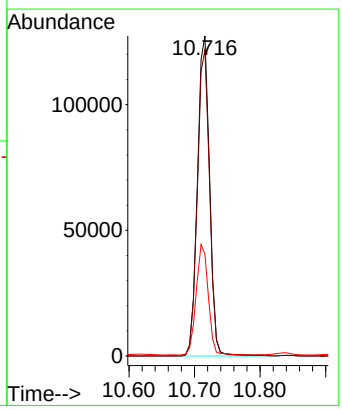
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Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

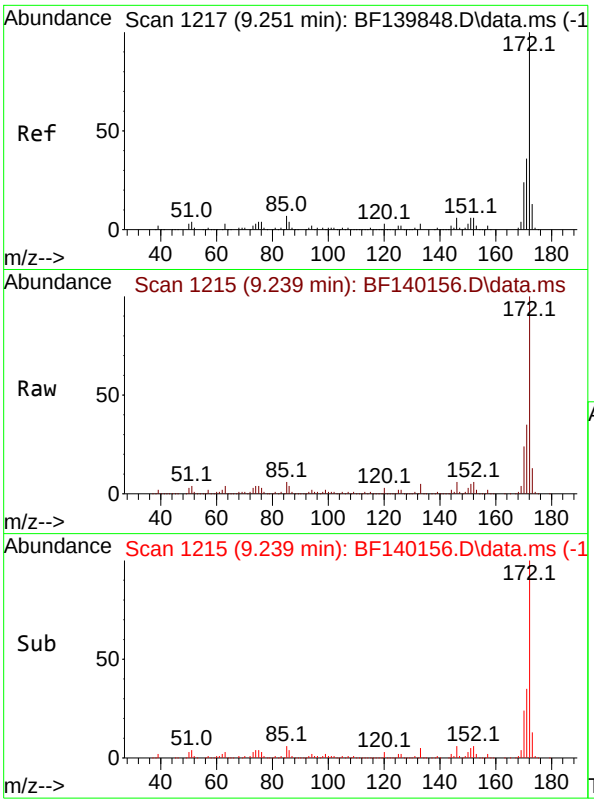


#42
2,4,6-Tribromophenol
Concen: 78.707 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:330 Resp: 165073

Ion	Ratio	Lower	Upper
330	100		
332	95.5	78.1	117.1
141	34.2	26.6	39.8

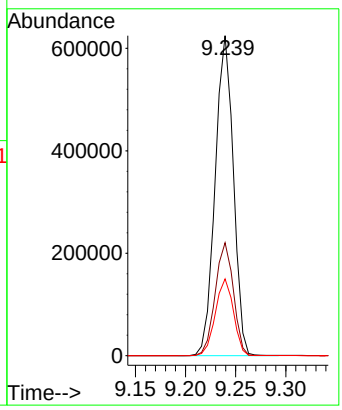




#45
2-Fluorobiphenyl
Concen: 58.151 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:172 Resp: 78894

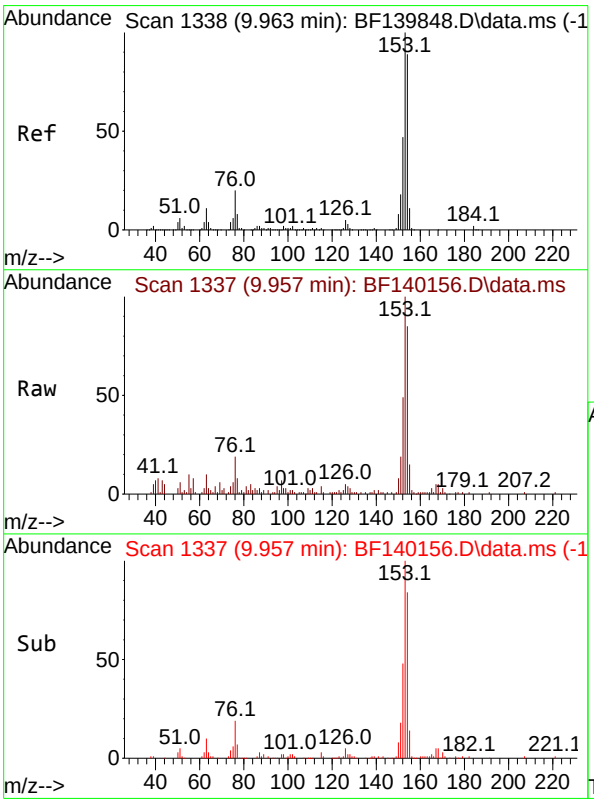
Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	24.0	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations
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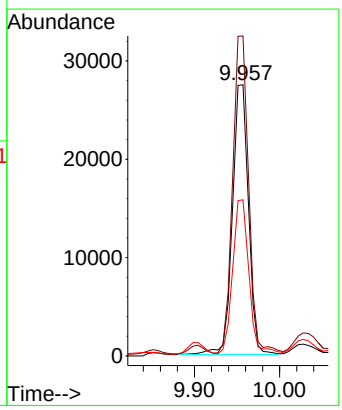
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

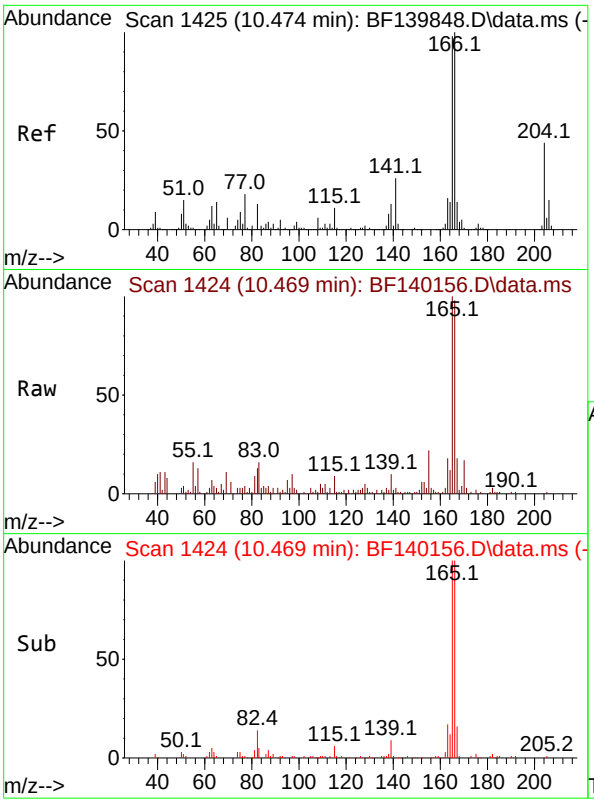


#52
Acenaphthene
Concen: 3.054 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:154 Resp: 35905

Ion	Ratio	Lower	Upper
154	100		
153	118.0	89.8	134.6
152	57.6	42.4	63.6

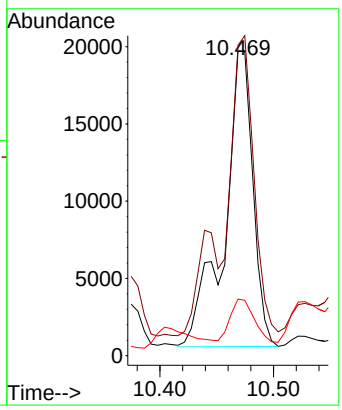




#58
Fluorene
Concen: 2.610 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:166 Resp: 3352

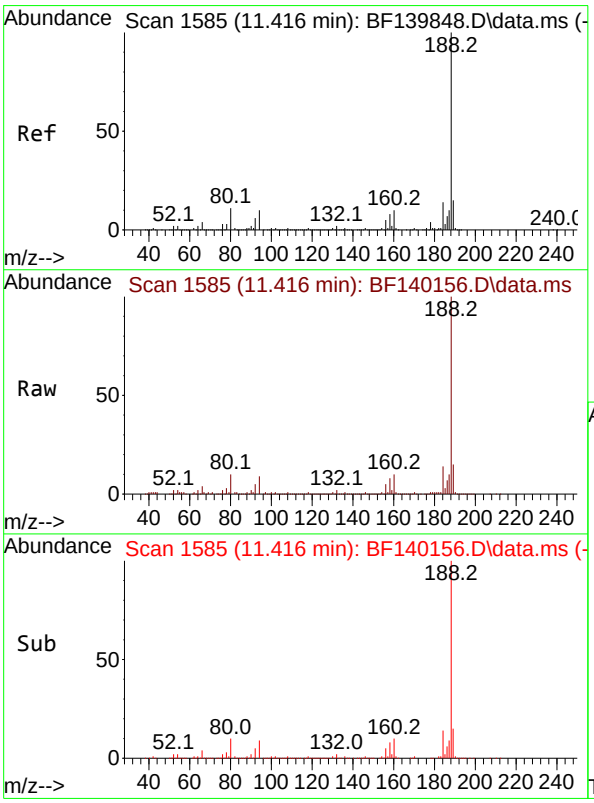
Ion	Ratio	Lower	Upper
166	100		
165	102.0	78.5	117.7
167	18.6	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations APPROVED

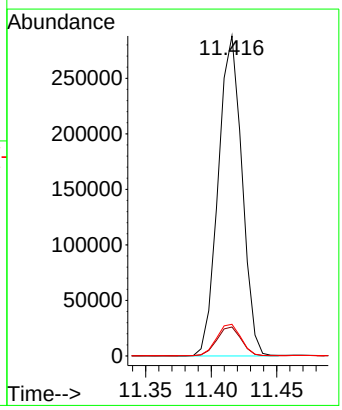
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

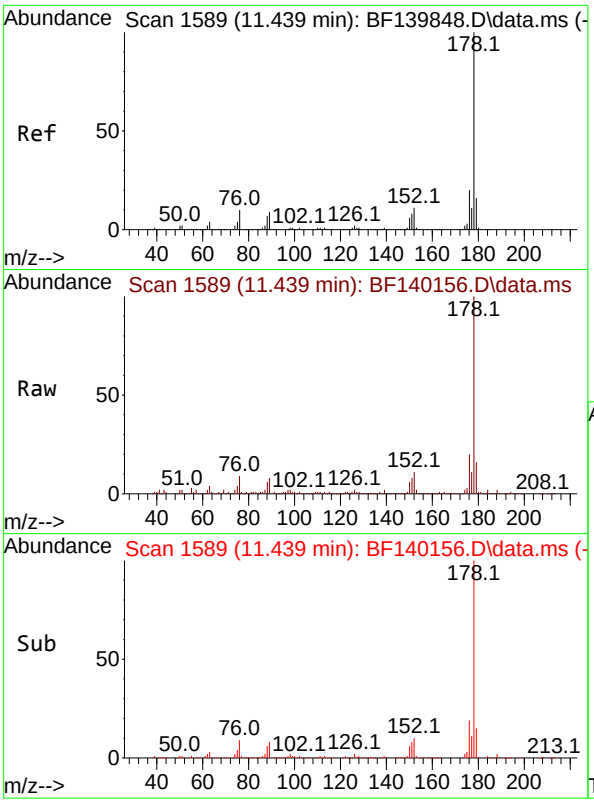


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:188 Resp: 363381

Ion	Ratio	Lower	Upper
188	100		
94	9.0	7.9	11.9
80	9.9	9.0	13.4

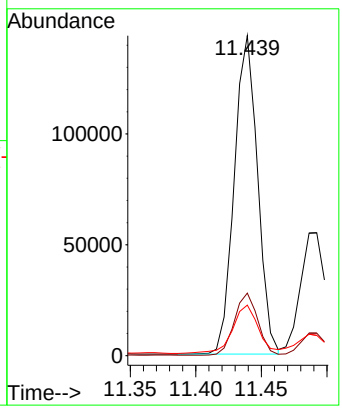




#71
Phenanthrene
Concen: 10.326 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:178 Resp: 17724

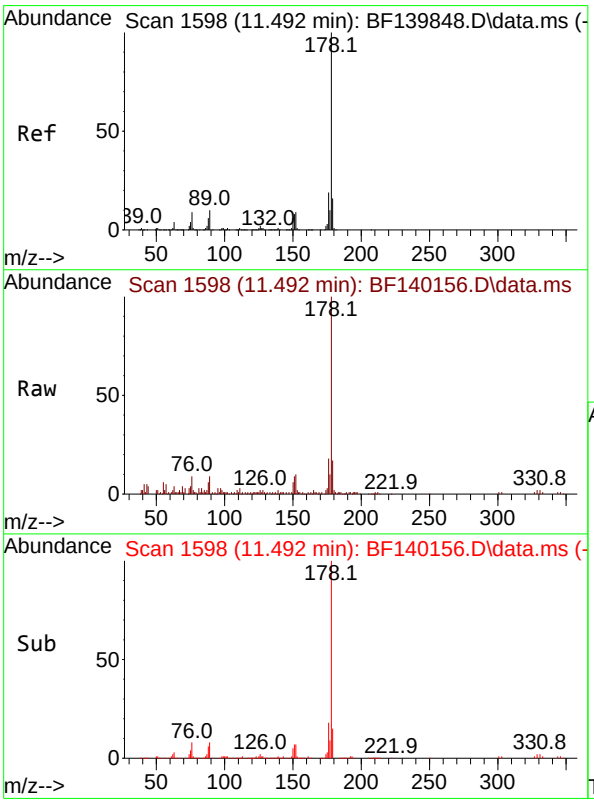
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.6
179	15.8	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations
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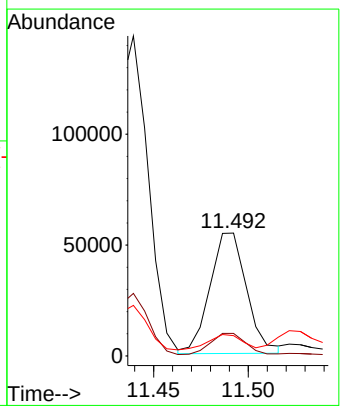
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

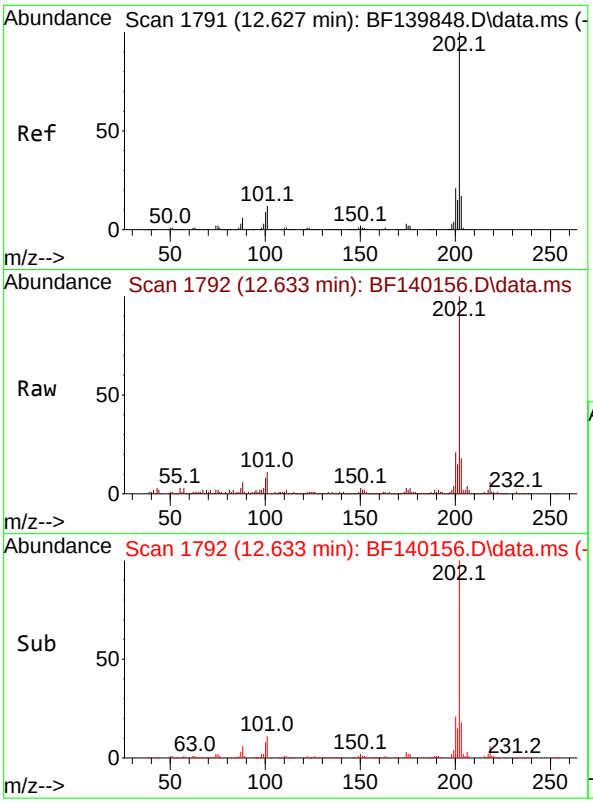


#72
Anthracene
Concen: 4.385 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:178 Resp: 73441

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.3	22.9
179	16.6	12.4	18.6

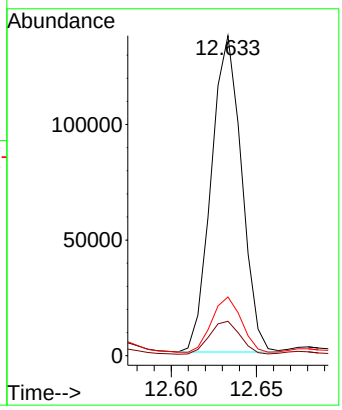




#75
Fluoranthene
Concen: 9.793 ng
RT: 12.633 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:202 Resp: 16992

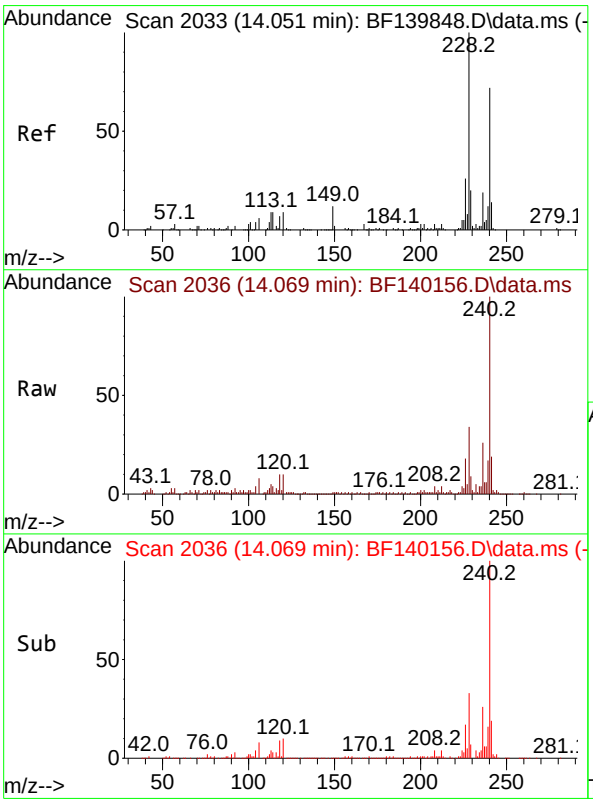
Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	31.9
203	18.4	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

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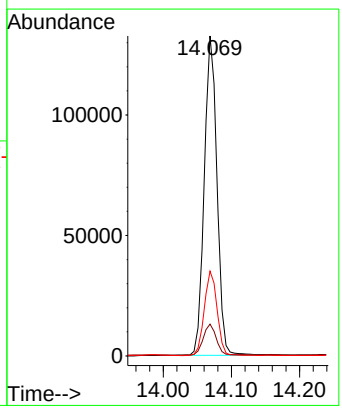
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

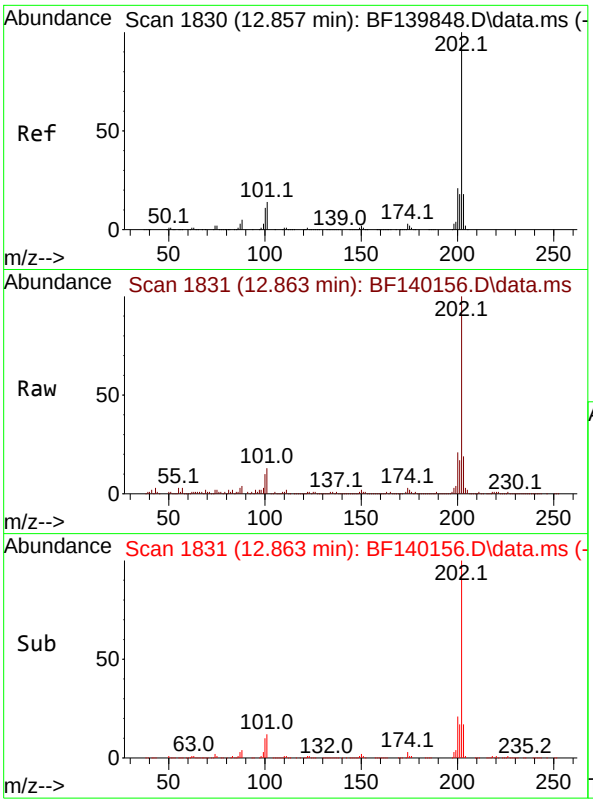


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:240 Resp: 172346

Ion	Ratio	Lower	Upper
240	100		
120	9.9	9.4	14.2
236	26.5	20.9	31.3

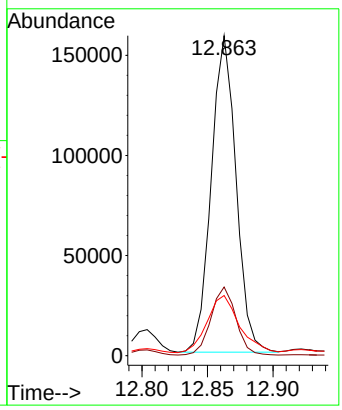




#78
Pyrene
Concen: 13.775 ng
RT: 12.863 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

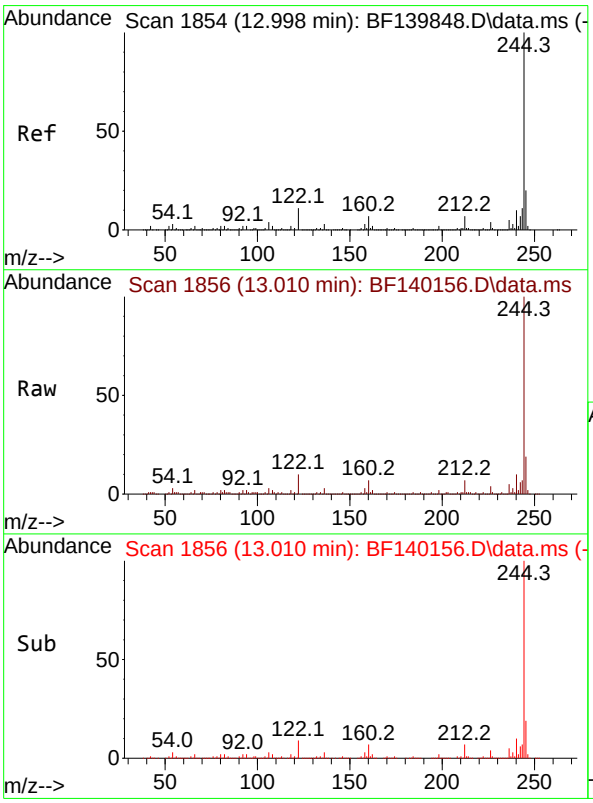
Tgt Ion:202 Resp: 20781

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	18.8	14.2	21.4



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

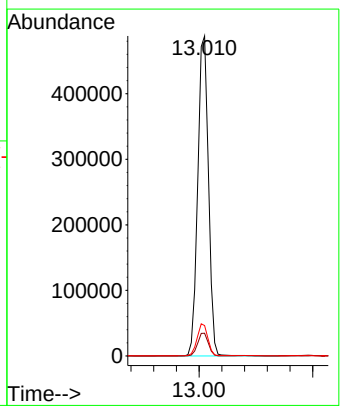
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Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

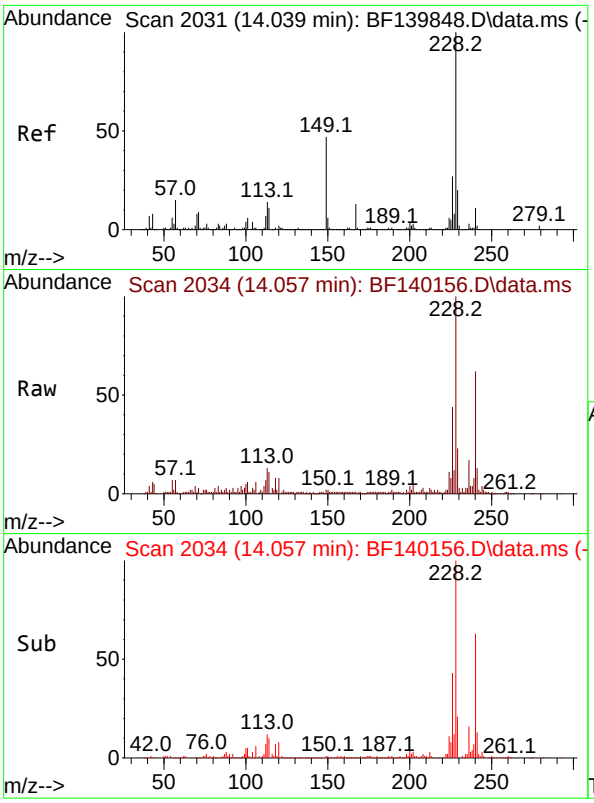


#79
Terphenyl-d14
Concen: 60.613 ng
RT: 13.010 min Scan# 1856
Delta R.T. 0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:244 Resp: 641093

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	9.5	8.6	13.0

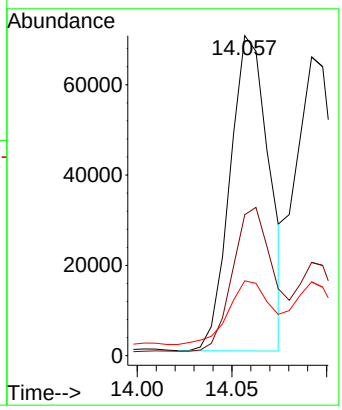




#81
Benzo(a)anthracene
Concen: 8.927 ng
RT: 14.057 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

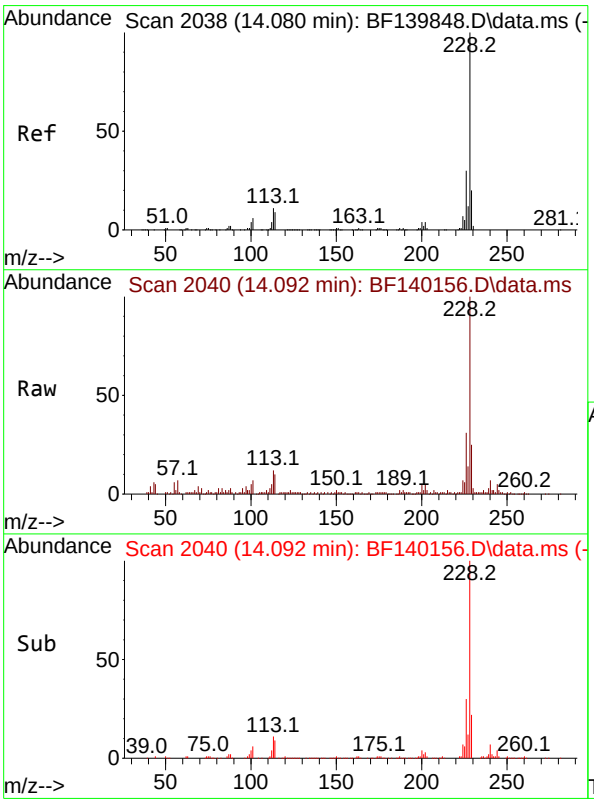
Tgt Ion:228 Resp: 10015

Ion	Ratio	Lower	Upper
228	100		
226	44.1	21.6	32.4#
229	23.4	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

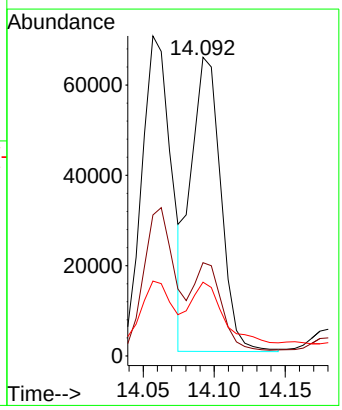
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

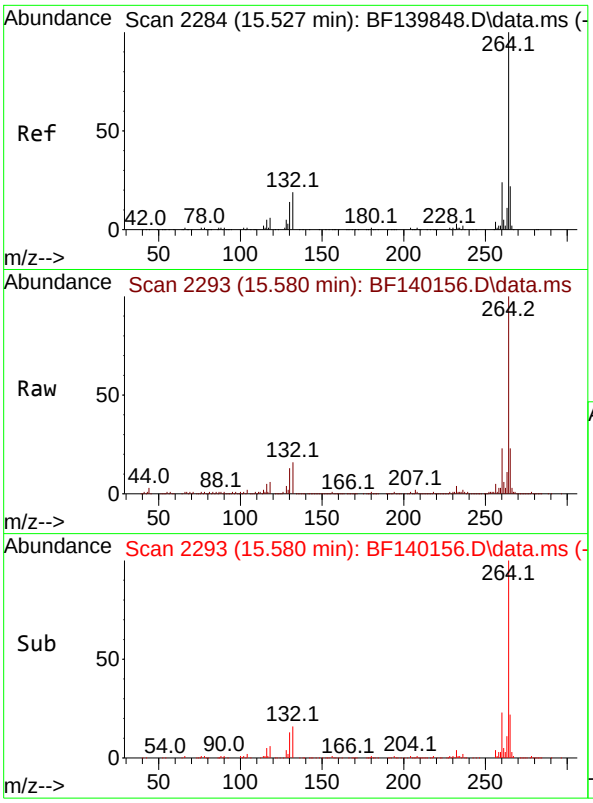


#83
Chrysene
Concen: 9.301 ng
RT: 14.092 min Scan# 2040
Delta R.T. 0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:228 Resp: 95672

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.1	36.1
229	24.7	15.8	23.6#

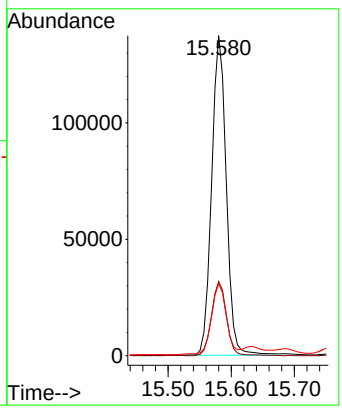




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.580 min Scan# 2
Delta R.T. 0.053 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:264 Resp: 22097

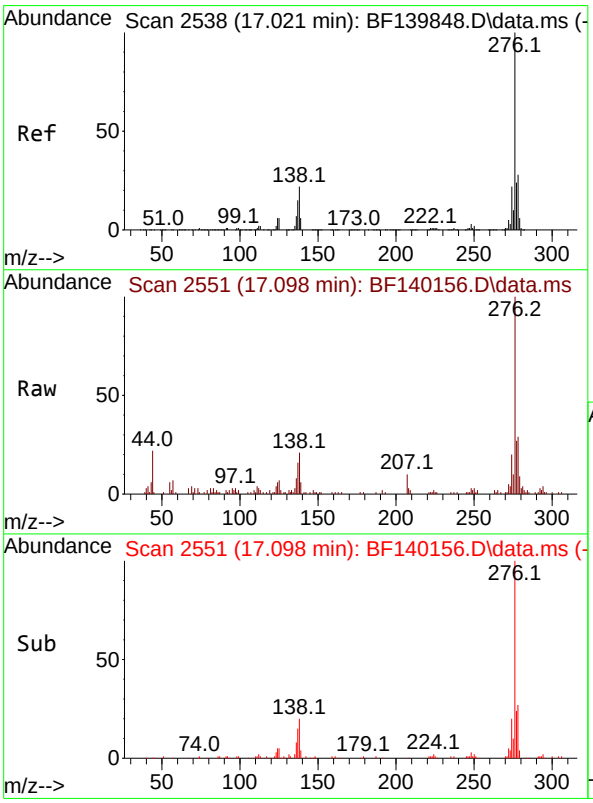
Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.4	29.2
265	22.5	17.4	26.0



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations
APPROVED

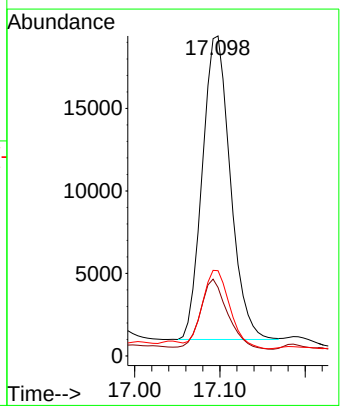
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

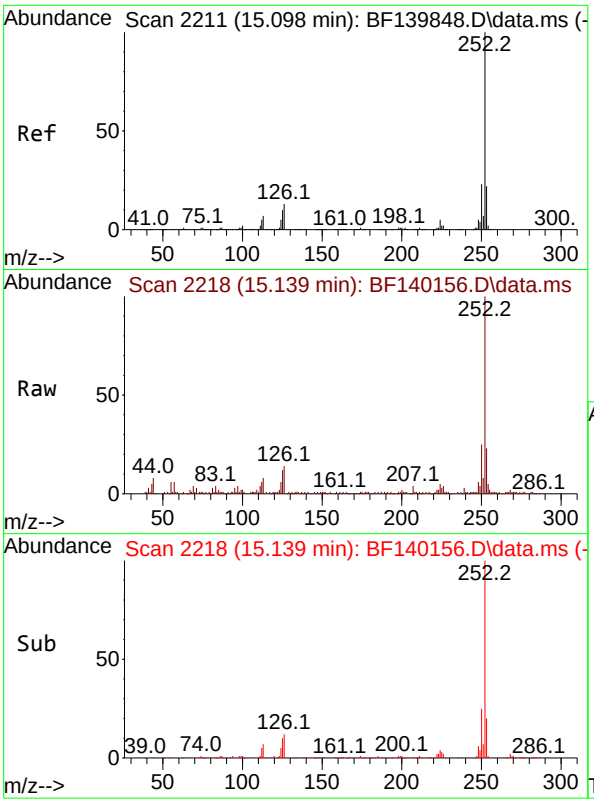


#87
Indeno(1,2,3-cd)pyrene
Concen: 2.958 ng
RT: 17.098 min Scan# 2551
Delta R.T. 0.077 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:276 Resp: 42053

Ion	Ratio	Lower	Upper
276	100		
138	22.6	20.4	30.6
277	25.7	20.2	30.4

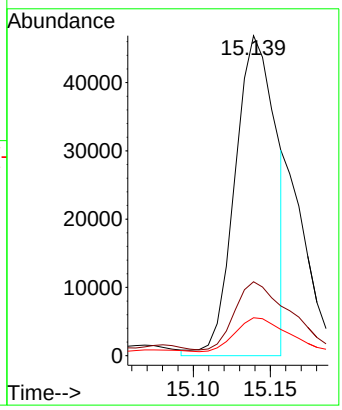




#88
Benzo(b)fluoranthene
Concen: 6.433 ng m
RT: 15.139 min Scan# 2
Delta R.T. 0.041 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

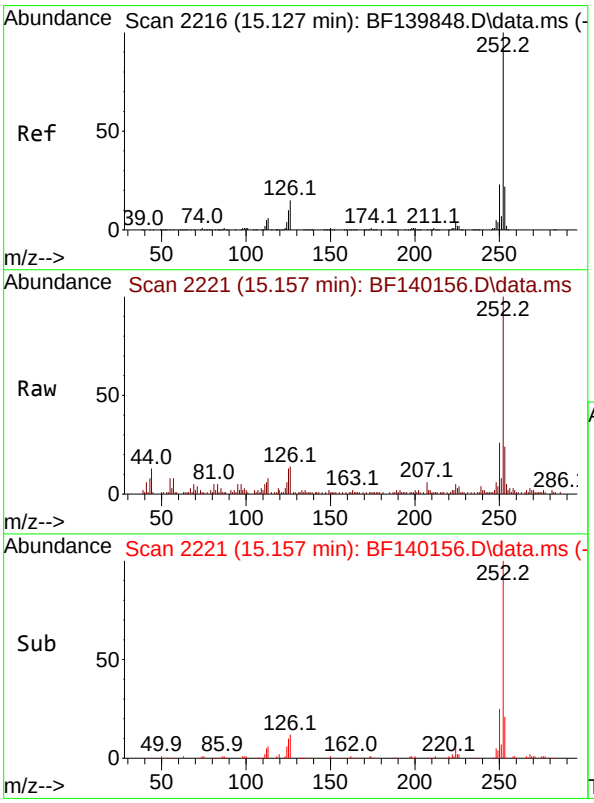
Tgt Ion:252 Resp: 8658

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.6	26.4
125	11.9	7.9	11.9



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

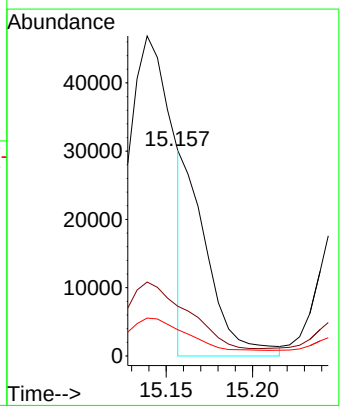
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

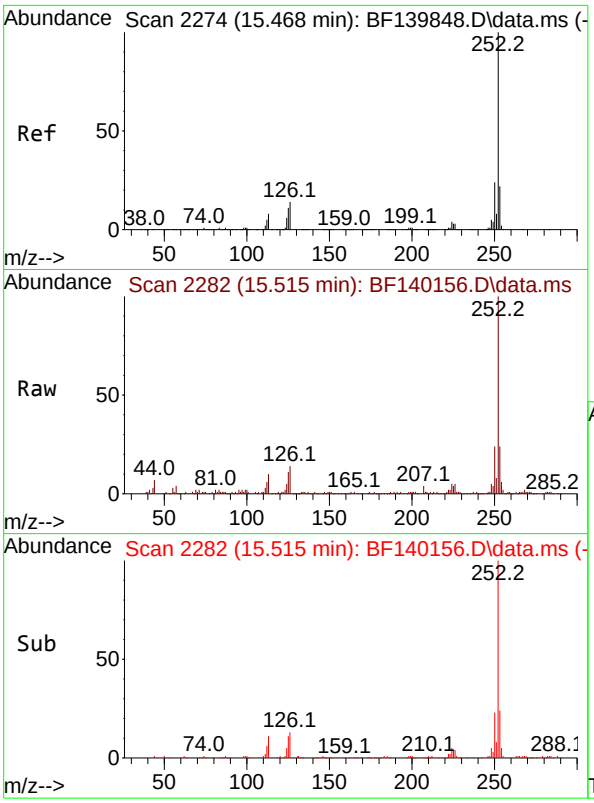


#89
Benzo(k)fluoranthene
Concen: 2.539 ng m
RT: 15.157 min Scan# 2221
Delta R.T. 0.030 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:252 Resp: 29472

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.6	26.4
125	12.8	7.9	11.9#

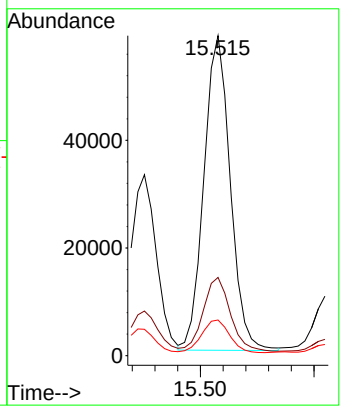




#90
Benzo(a)pyrene
Concen: 8.501 ng
RT: 15.515 min Scan# 2
Delta R.T. 0.047 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:252 Resp: 9416

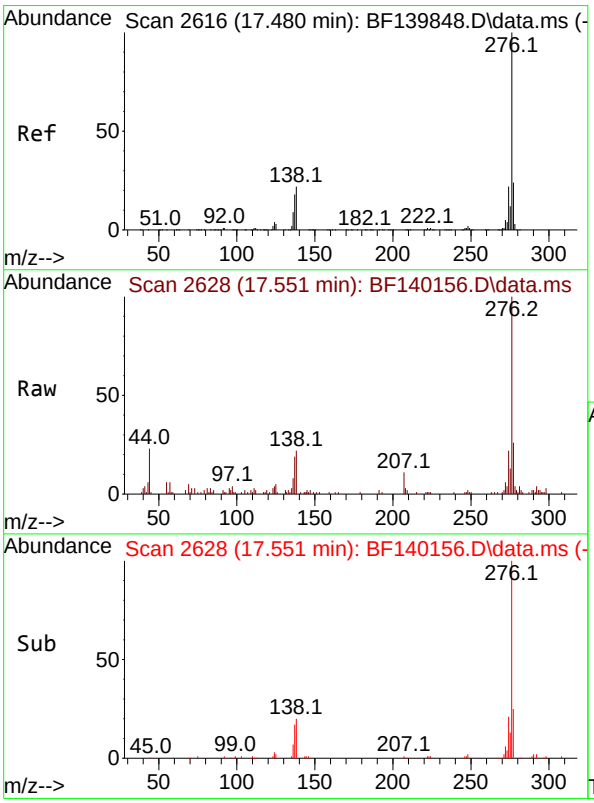
Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.3	25.9
125	11.2	8.7	13.1



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations
APPROVED

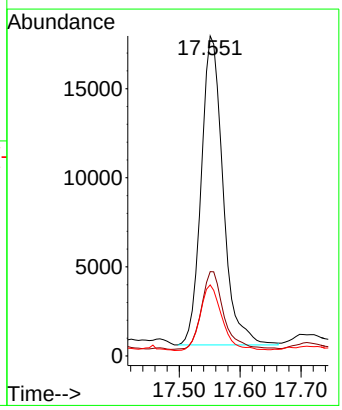
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#92
Benzo(g,h,i)perylene
Concen: 3.654 ng
RT: 17.551 min Scan# 2628
Delta R.T. 0.071 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:276 Resp: 43282

Ion	Ratio	Lower	Upper
276	100		
277	26.4	19.0	28.6
138	22.2	17.4	26.0



Sample Results: **BF140156.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140156.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.181	7	15	26	rVB	1139608	1813109	78.14%	5.927%
2	3.981	316	321	333	rVB	48257	79826	3.44%	0.261%
3	5.498	573	579	584	rBV	1629989	2148736	92.61%	7.024%
4	6.498	743	749	755	rBV	1549152	2219830	95.67%	7.256%
5	6.881	809	814	819	rBV	575806	696360	30.01%	2.276%
6	6.940	820	824	828	rBV	31671	38222	1.65%	0.125%
7	7.151	850	860	864	rBV3	24936	45790	1.97%	0.150%
8	7.198	864	868	874	rVB	52983	66791	2.88%	0.218%
9	7.275	874	881	889	rBV	37299	56356	2.43%	0.184%
10	7.345	889	893	895	rBV	31648	44372	1.91%	0.145%
11	7.440	900	909	914	rBV	1124707	1568450	67.60%	5.127%
12	7.528	919	924	927	rBV4	30086	46647	2.01%	0.152%
13	7.645	938	944	946	rBV	89646	121968	5.26%	0.399%
14	7.675	946	949	958	rVB2	148143	258406	11.14%	0.845%
15	7.763	958	964	965	rBV2	31487	40037	1.73%	0.131%
16	7.834	970	976	980	rVB3	66133	122806	5.29%	0.401%
17	7.898	980	987	991	rBV2	138606	234344	10.10%	0.766%
18	7.975	997	1000	1006	rVB2	40914	63277	2.73%	0.207%
19	8.163	1024	1032	1039	rBV2	735066	1211555	52.22%	3.960%
20	8.216	1039	1041	1045	rVV	43451	56713	2.44%	0.185%
21	8.375	1063	1068	1074	rVB4	26733	44966	1.94%	0.147%
22	8.457	1074	1082	1087	rBV5	42929	89434	3.85%	0.292%
23	8.581	1099	1103	1108	rBV	61934	87960	3.79%	0.288%
24	8.751	1127	1132	1136	rVV	187480	224222	9.66%	0.733%
25	8.810	1136	1142	1145	rVV7	18763	45121	1.94%	0.147%
26	8.875	1149	1153	1157	rVB	109572	138694	5.98%	0.453%
27	8.975	1165	1170	1174	rVB	122813	161448	6.96%	0.528%
28	9.039	1177	1181	1184	rBV3	28492	51062	2.20%	0.167%
29	9.186	1203	1206	1209	rVB	45507	54440	2.35%	0.178%
30	9.239	1209	1215	1220	rBV	1836985	2320319	100.00%	7.584%
31	9.322	1224	1229	1234	rBV	167587	233406	10.06%	0.763%
32	9.439	1244	1249	1254	rVB	58606	93637	4.04%	0.306%
33	9.504	1254	1260	1264	rBV	70816	112777	4.86%	0.369%
34	9.575	1268	1272	1275	rVV	129258	191144	8.24%	0.625%
35	9.604	1275	1277	1280	rVV	72033	85638	3.69%	0.280%
36	9.639	1280	1283	1289	rVV3	70631	118034	5.09%	0.386%

Sample Results: **BF140156.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	9.698	1289	1293	1302	rVB	73504	109800	4.73%	0.359%
38	9.781	1303	1307	1312	rVB	84935	110176	4.75%	0.360%
39	9.851	1312	1319	1323	rBV	105735	149389	6.44%	0.488%
40	9.922	1324	1331	1335	rBV	772335	1030064	44.39%	3.367%
41	9.957	1335	1337	1340	rVB	122211	117815	5.08%	0.385%
42	10.028	1345	1349	1353	rVB	40626	59065	2.55%	0.193%
43	10.081	1353	1358	1361	rBV3	30741	54759	2.36%	0.179%
44	10.122	1361	1365	1369	rBV2	61261	78573	3.39%	0.257%
45	10.163	1369	1372	1381	rVB3	55047	81383	3.51%	0.266%
46	10.239	1381	1385	1387	rBV2	51574	66883	2.88%	0.219%
47	10.269	1387	1390	1396	rVB2	38529	50624	2.18%	0.165%
48	10.328	1396	1400	1402	rBV	52812	77476	3.34%	0.253%
49	10.469	1421	1424	1430	rVB2	73573	103046	4.44%	0.337%
50	10.522	1430	1433	1437	rBV	37659	66415	2.86%	0.217%
51	10.581	1440	1443	1447	rVV2	61651	88605	3.82%	0.290%
52	10.639	1448	1453	1459	rVB	378572	498736	21.49%	1.630%
53	10.710	1459	1465	1470	rBV	1033895	1388483	59.84%	4.539%
54	10.839	1482	1487	1493	rVB2	80570	126022	5.43%	0.412%
55	11.016	1513	1517	1520	rVV2	74019	117349	5.06%	0.384%
56	11.051	1520	1523	1526	rVV2	54680	74916	3.23%	0.245%
57	11.104	1529	1532	1536	rVB	42980	51972	2.24%	0.170%
58	11.310	1563	1567	1574	rVB2	74826	113685	4.90%	0.372%
59	11.416	1580	1585	1588	rBV	701627	1059810	45.68%	3.464%
60	11.486	1593	1597	1601	rVV	125535	164549	7.09%	0.538%
61	11.657	1622	1626	1630	rBV5	31113	59778	2.58%	0.195%
62	11.745	1638	1641	1652	rVB	52247	82686	3.56%	0.270%
63	11.833	1653	1656	1659	rVB2	30049	37450	1.61%	0.122%
64	11.916	1666	1670	1672	rBV	154515	199659	8.60%	0.653%
65	11.945	1672	1675	1680	rVV	335354	462993	19.95%	1.513%
66	11.992	1680	1683	1686	rVV	110757	164391	7.08%	0.537%
67	12.033	1686	1690	1698	rVB	273277	575319	24.79%	1.881%
68	12.216	1717	1721	1725	rVB	64028	89567	3.86%	0.293%
69	12.363	1741	1746	1749	rBV2	68325	112158	4.83%	0.367%
70	12.469	1761	1764	1768	rBV	124084	170078	7.33%	0.556%
71	12.510	1768	1771	1776	rVB2	98688	152420	6.57%	0.498%
72	12.563	1777	1780	1788	rVB3	62383	132003	5.69%	0.431%
73	12.633	1788	1792	1795	rBV	335956	423354	18.25%	1.384%
74	12.675	1795	1799	1805	rVV	408029	525065	22.63%	1.716%
75	12.727	1805	1808	1815	rVB	97115	134610	5.80%	0.440%
76	12.827	1822	1825	1827	rBV2	50774	62484	2.69%	0.204%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	12.863	1827	1831	1837	rVB	341847	492129	21.21%	1.609%
78	13.010	1851	1856	1863	rVB	1272155	1735511	74.80%	5.673%
79	13.080	1864	1868	1875	rBV2	73263	137069	5.91%	0.448%
80	13.192	1881	1887	1891	rVB2	138075	262986	11.33%	0.860%
81	13.257	1892	1898	1902	rVV2	103090	183318	7.90%	0.599%
82	13.298	1902	1905	1912	rVB	83710	121628	5.24%	0.398%
83	13.386	1918	1920	1923	rVV2	47227	52889	2.28%	0.173%
84	13.422	1923	1926	1935	rVB	77620	132826	5.72%	0.434%
85	13.539	1943	1946	1949	rBV	38329	41290	1.78%	0.135%
86	14.069	2030	2036	2047	rVB2	496086	1020451	43.98%	3.336%
87	14.463	2100	2103	2107	rVB	60889	81254	3.50%	0.266%
88	14.563	2117	2120	2123	rVB2	41837	51113	2.20%	0.167%
89	15.139	2213	2218	2229	rVV	113691	271135	11.69%	0.886%
90	15.245	2233	2236	2242	rVB	47967	76857	3.31%	0.251%
91	15.451	2266	2271	2276	rVV	81181	128470	5.54%	0.420%
92	15.515	2277	2282	2287	rVV	145895	227402	9.80%	0.743%
93	15.580	2287	2293	2306	rVB	360785	636013	27.41%	2.079%
94	17.092	2545	2550	2558	rBV2	52397	115123	4.96%	0.376%
95	17.168	2558	2563	2571	rVB9	26750	57065	2.46%	0.187%
96	17.380	2591	2599	2610	rVB4	78214	213657	9.21%	0.698%
97	17.551	2621	2628	2636	rBV	44577	107127	4.62%	0.350%
98	17.804	2666	2671	2678	rVB	17705	41383	1.78%	0.135%
99	17.968	2693	2699	2707	rVB	19614	57836	2.49%	0.189%
100	18.345	2756	2763	2775	rVB9	40378	139161	6.00%	0.455%

Sum of corrected areas: 30593200

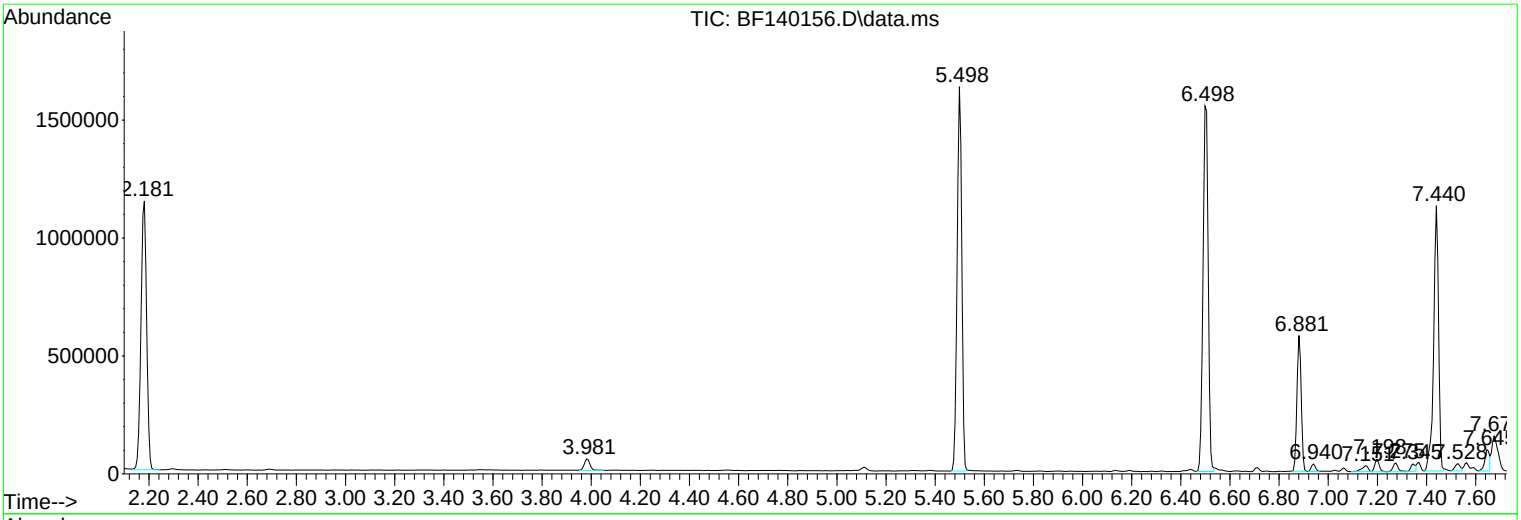
Sample Results: **BF140156.D**

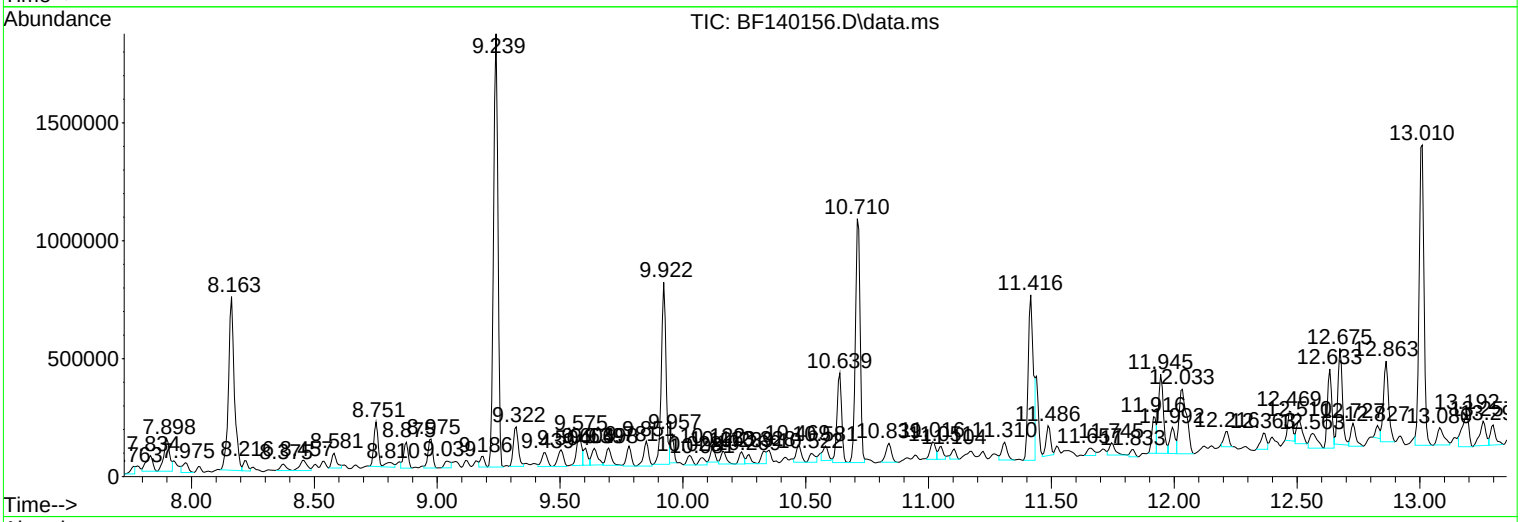
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

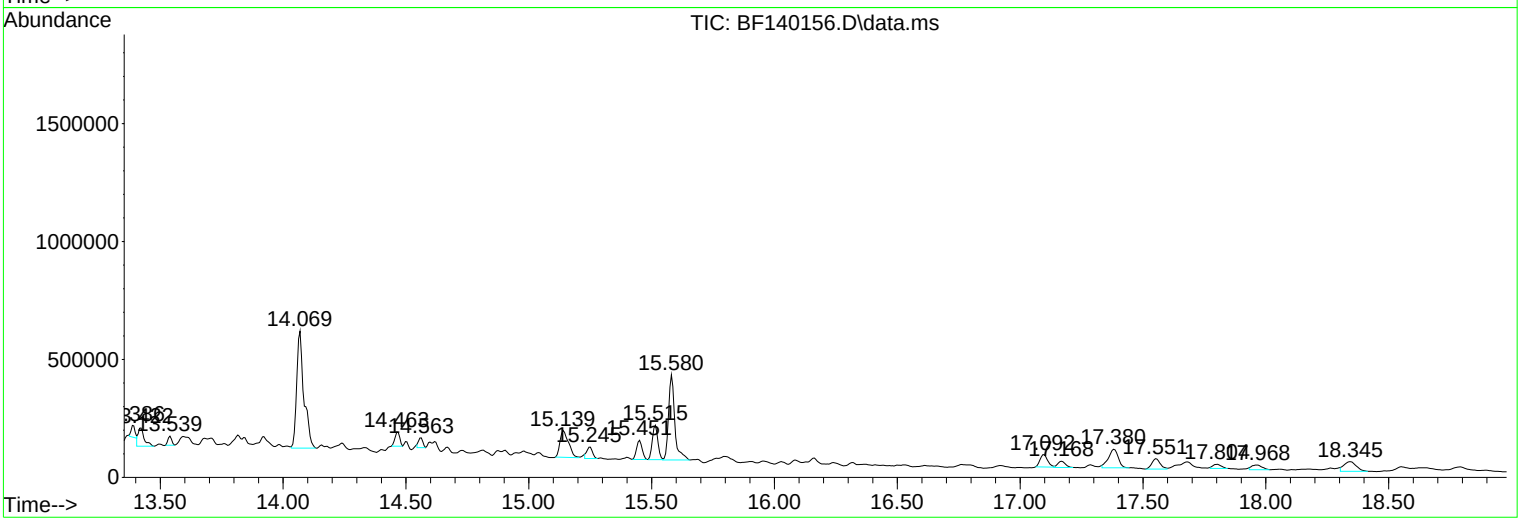
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

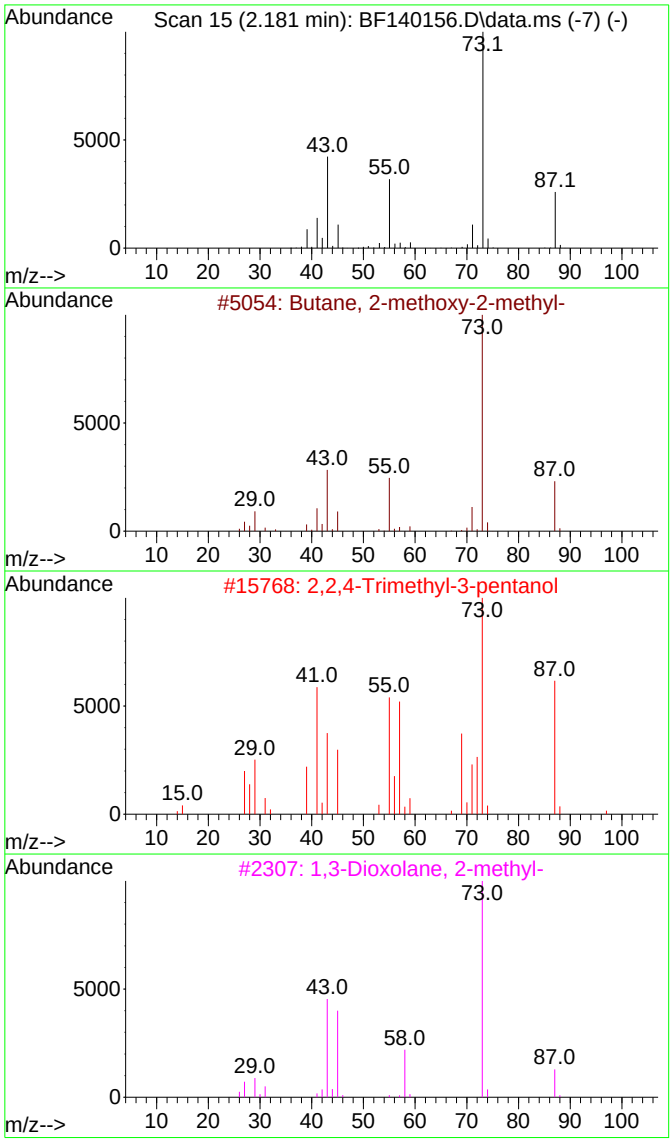
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

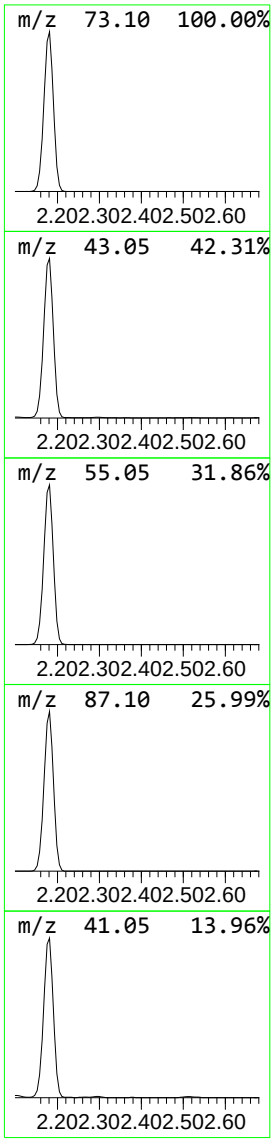
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.181	52.07 ng	1813110	1,4-Dichlorobenzene-d4	6.881

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





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Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
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Instrument :
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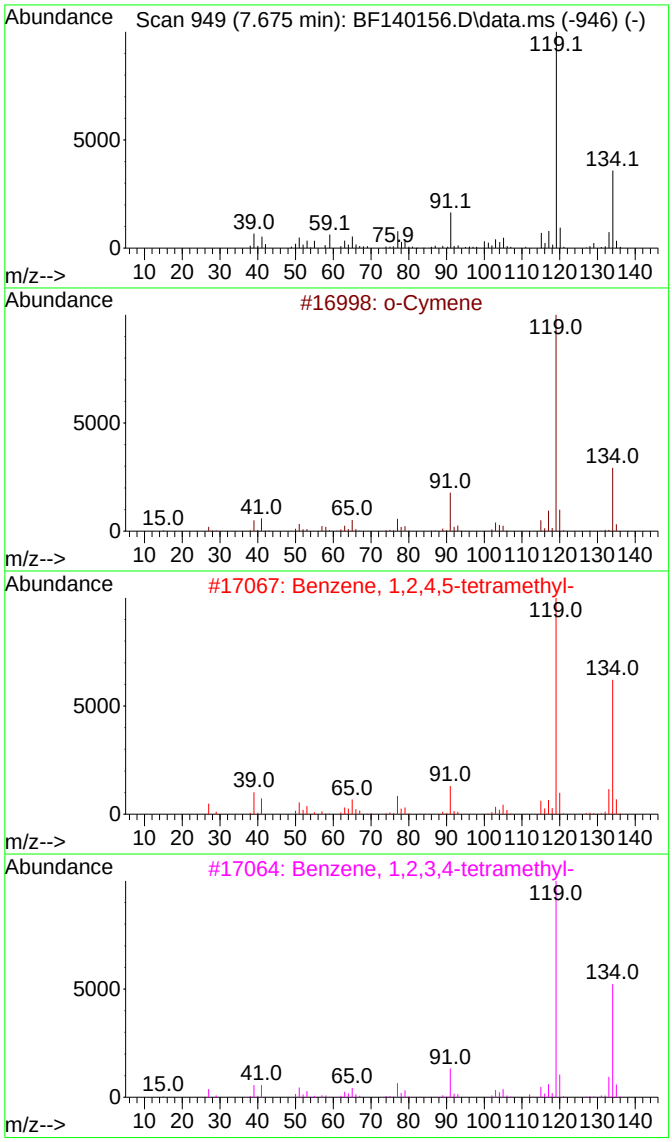
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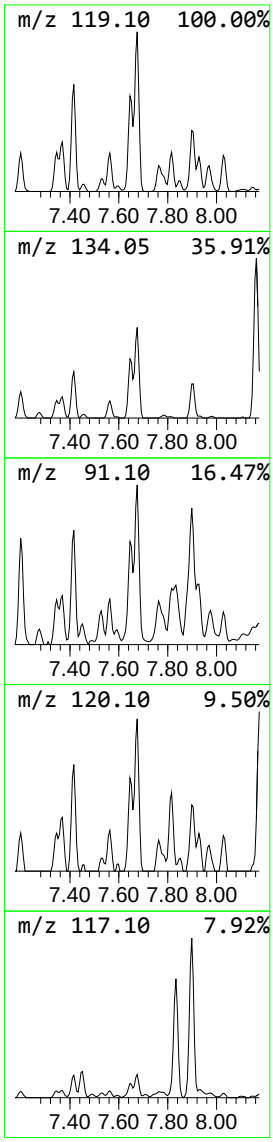
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Peak Number 2 o-Cymene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.675	4.27 ng	258406	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	94
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91





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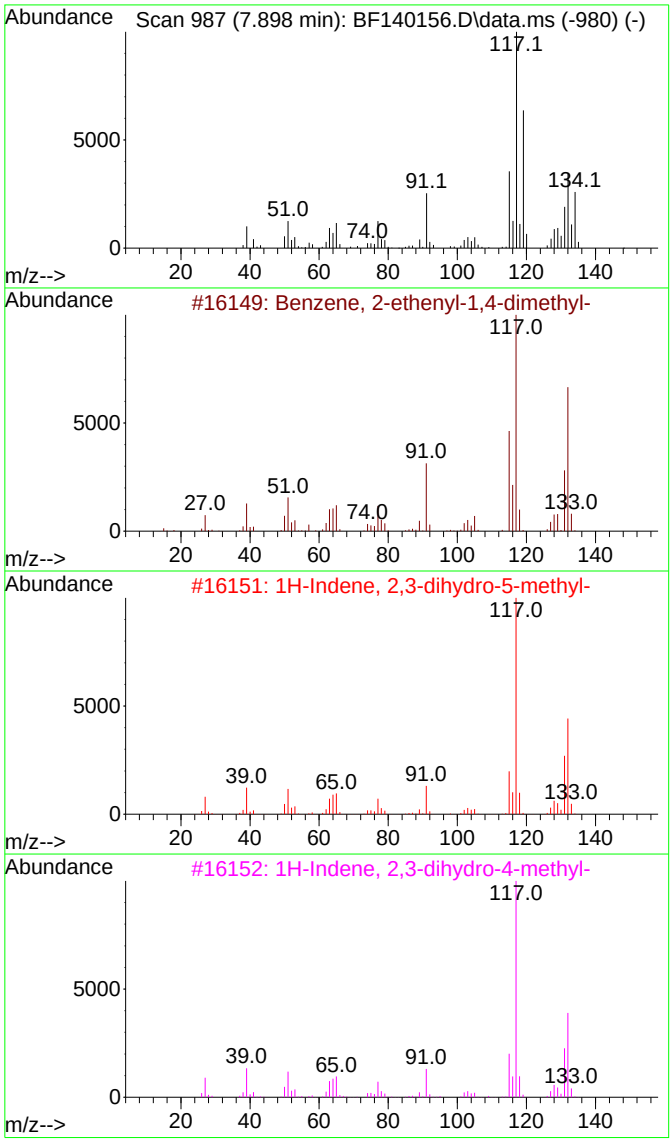
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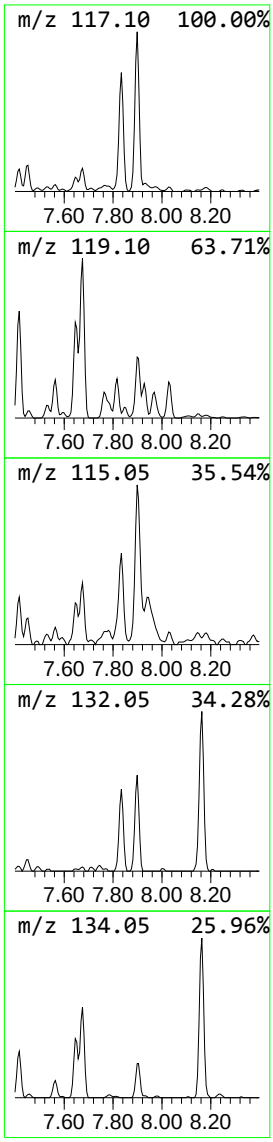
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Peak Number 3 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.898	3.87 ng	234344	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90
2	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	64
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	64
4	3-Phenylbut-1-ene	132	C10H12	000934-10-1	64
5	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	60





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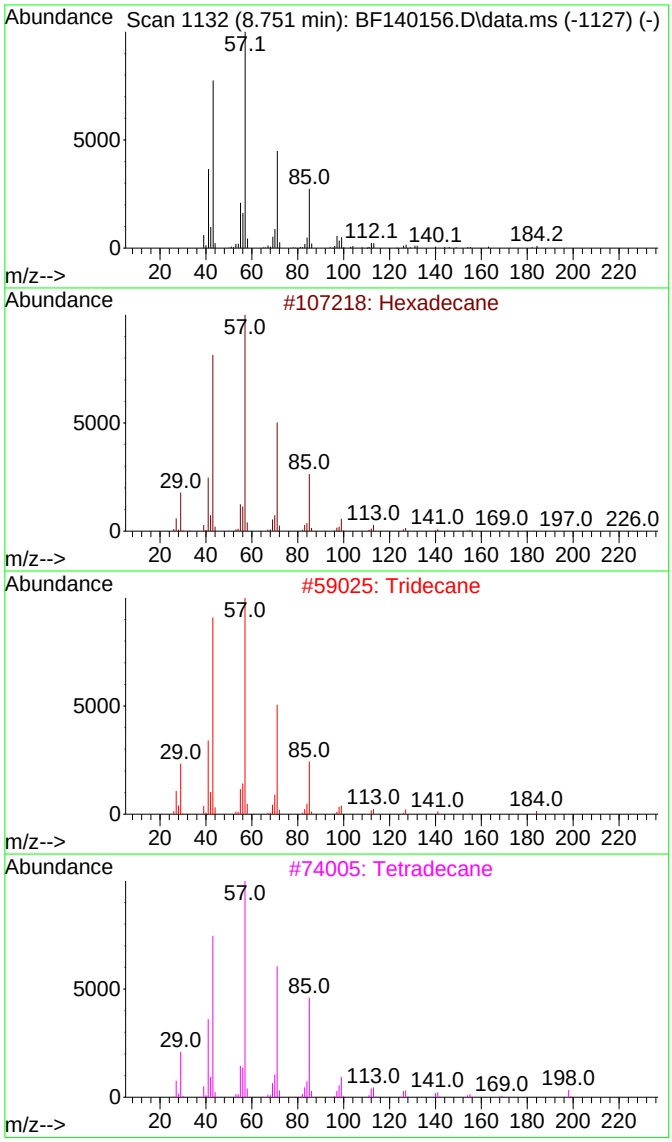
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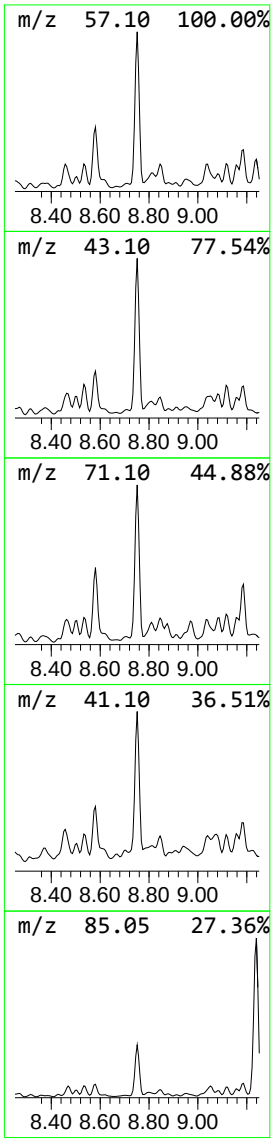
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Peak Number 4 Hexadecane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.751	3.70 ng	224222	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	90
2	Tridecane	184	C13H28	000629-50-5	87
3	Tetradecane	198	C14H30	000629-59-4	83
4	Dodecane	170	C12H26	000112-40-3	72
5	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	72





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Misc :
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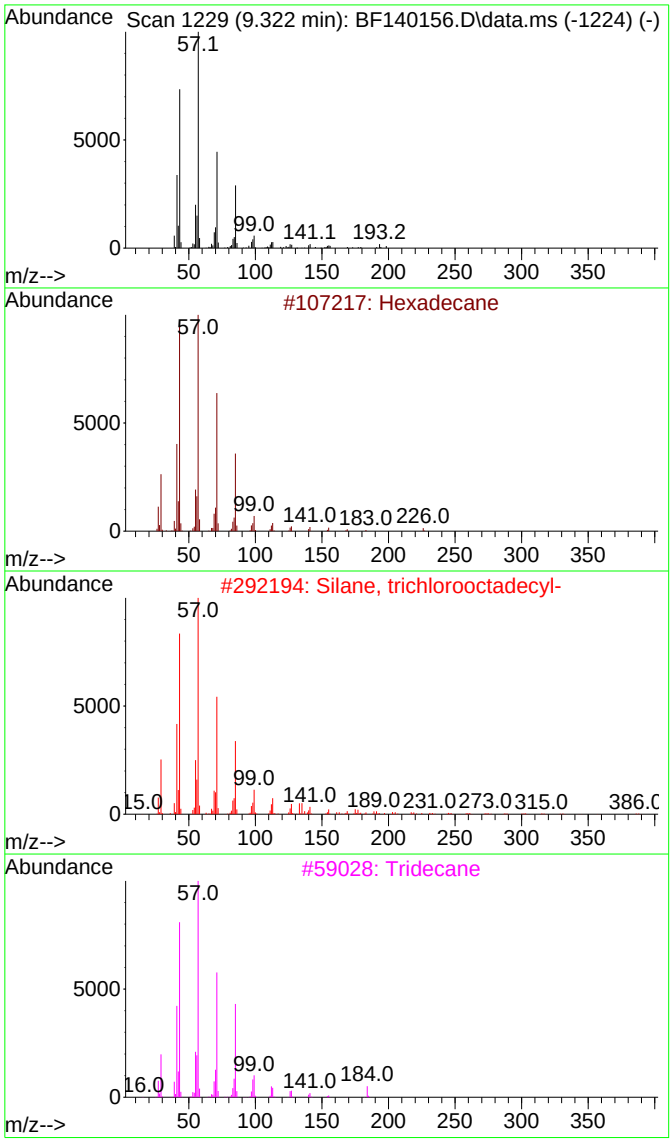
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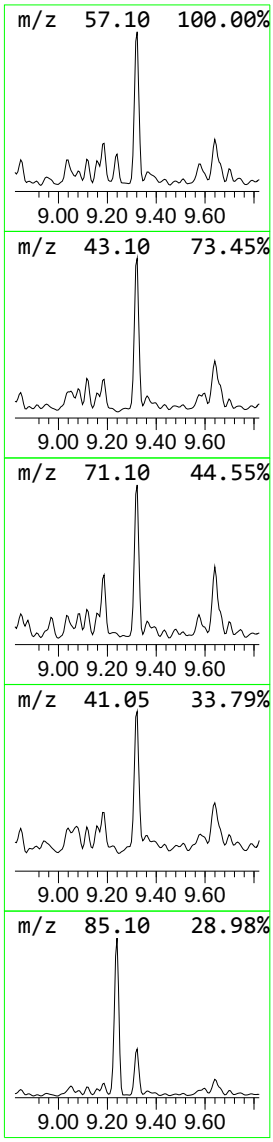
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Peak Number 5 Silane, trichlorooctadecyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.322	4.53 ng	233406	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	90
3	Tridecane	184	C13H28	000629-50-5	90
4	Undecane	156	C11H24	001120-21-4	87
5	Tetradecane	198	C14H30	000629-59-4	87





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Operator : RC/JU
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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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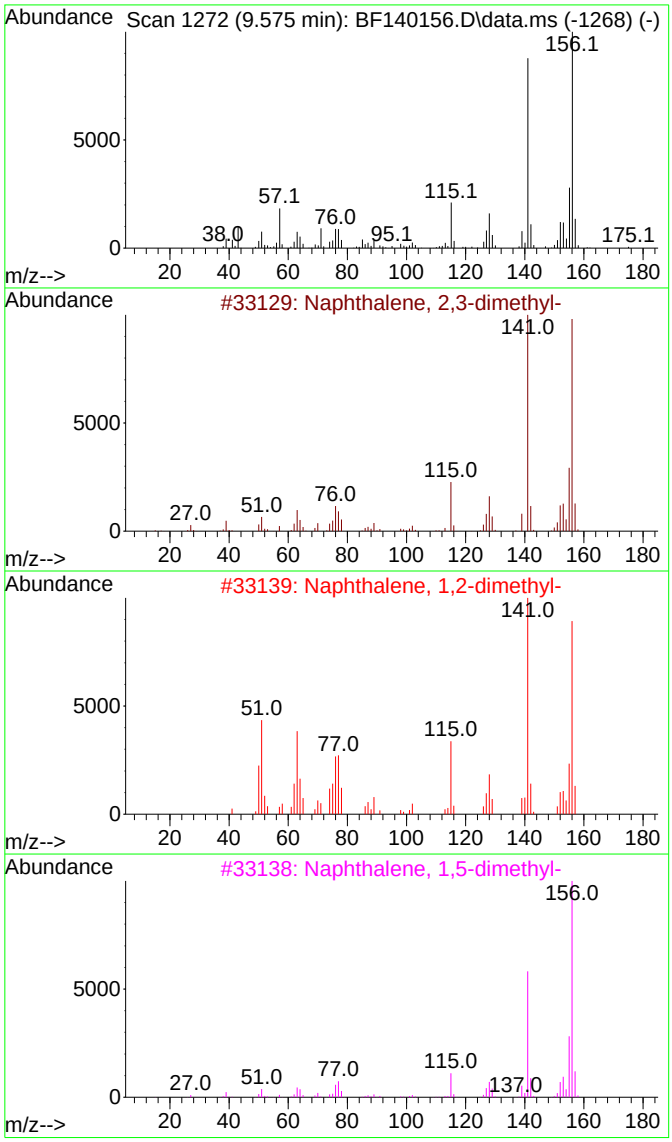
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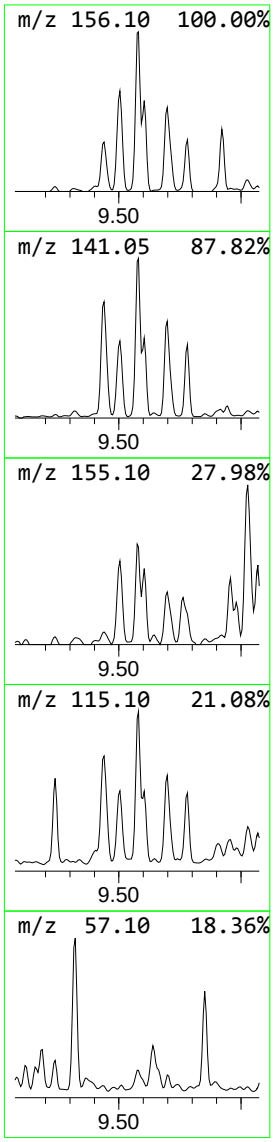
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Peak Number 6 Naphthalene, 2,3-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.575	3.71 ng	191144	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97





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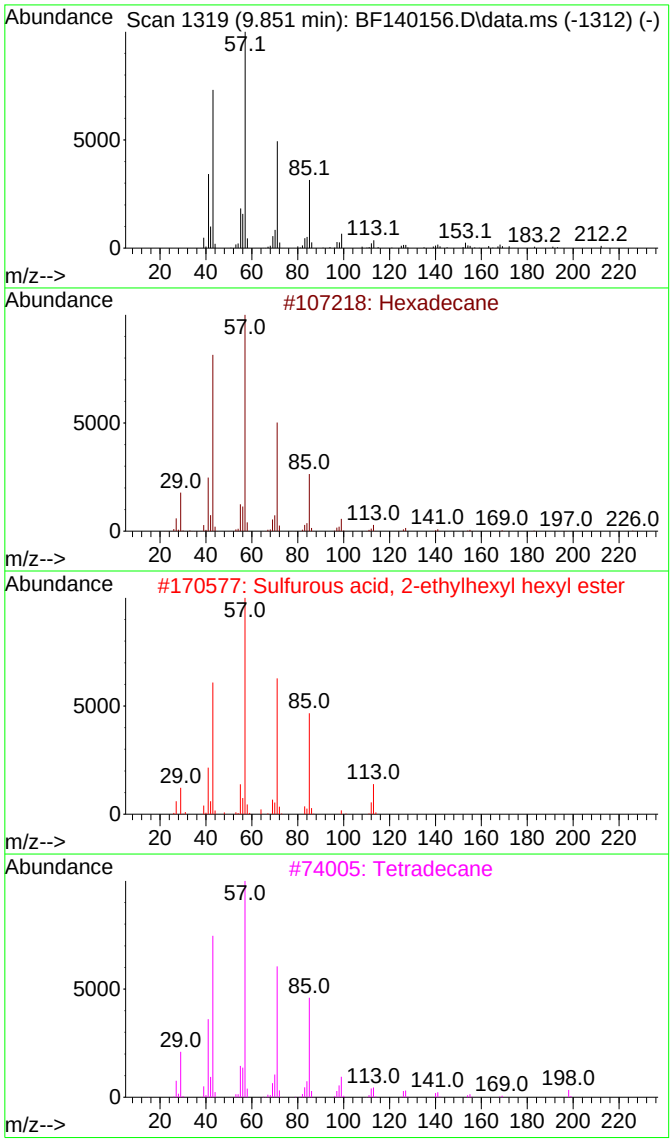
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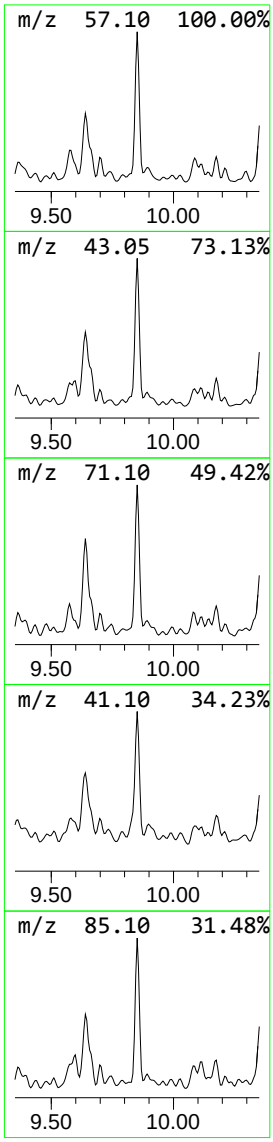
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Peak Number 7 Sulfurous acid, 2-ethylhexy... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.851	2.90 ng	149389	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	86
3	Tetradecane	198	C14H30	000629-59-4	83
4	Pentadecane	212	C15H32	000629-62-9	81
5	Sulfurous acid, 2-propyl tetrade...	320	C17H36O3S	1010309-12-5	78





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Instrument :
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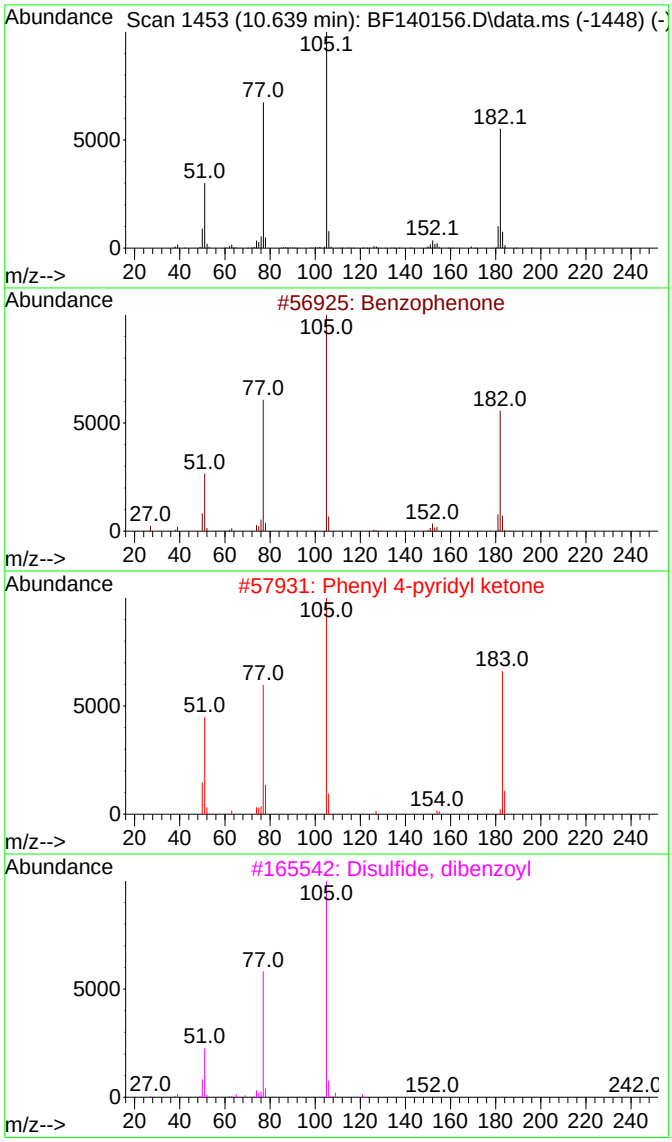
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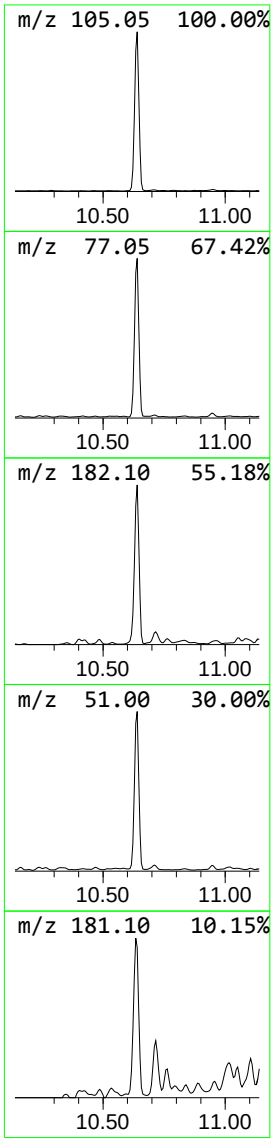
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Peak Number 8 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.639	9.68 ng	498736	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	49
3	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
4	N-Methylbenzamide, N-pentafluoro...	281	C11H8F5NO2	1000446-98-1	47
5	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47





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Instrument :
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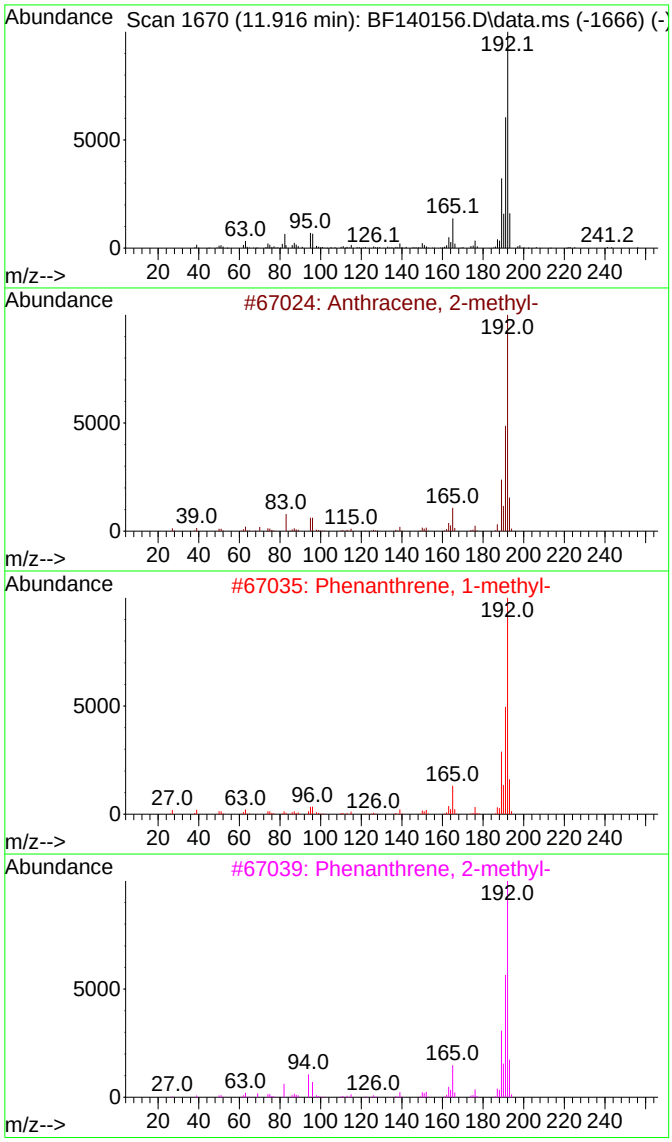
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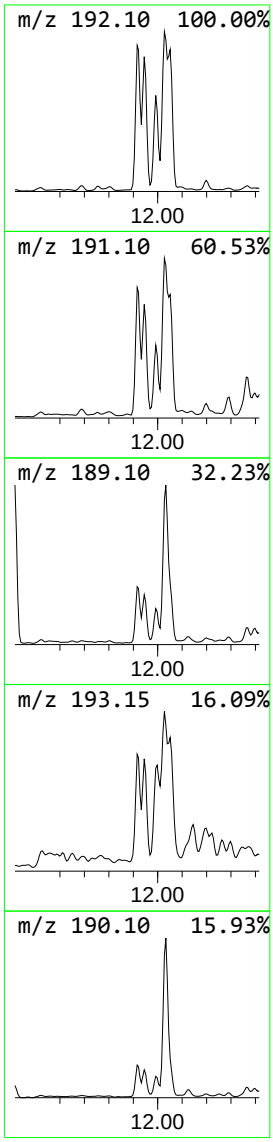
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Peak Number 9 Anthracene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	3.77 ng	199659	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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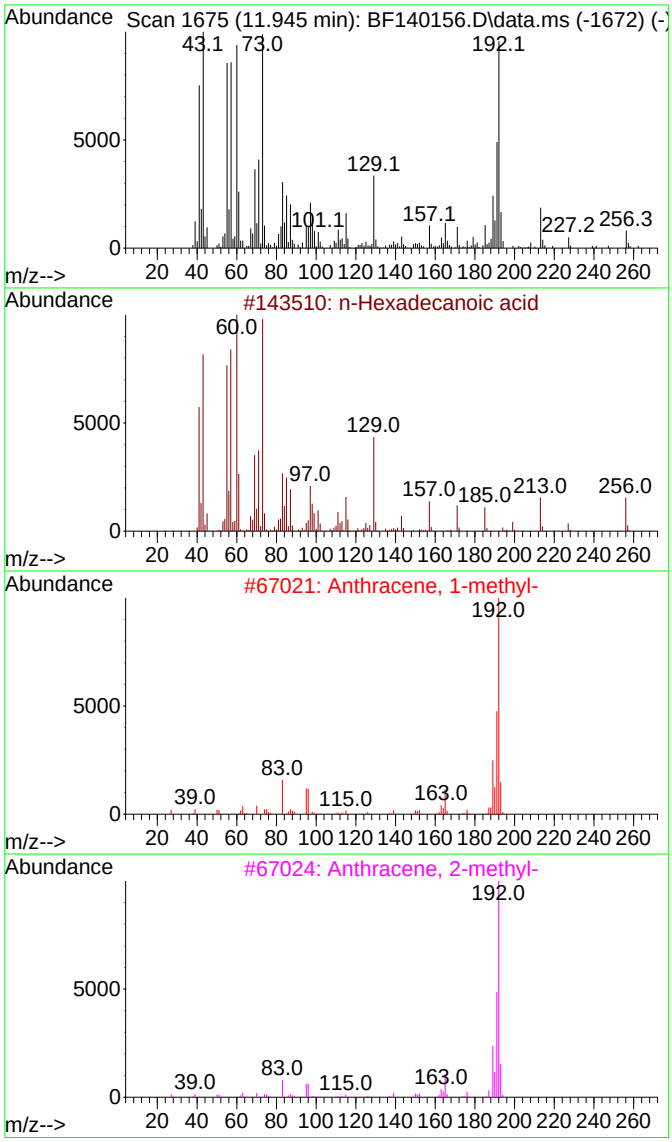
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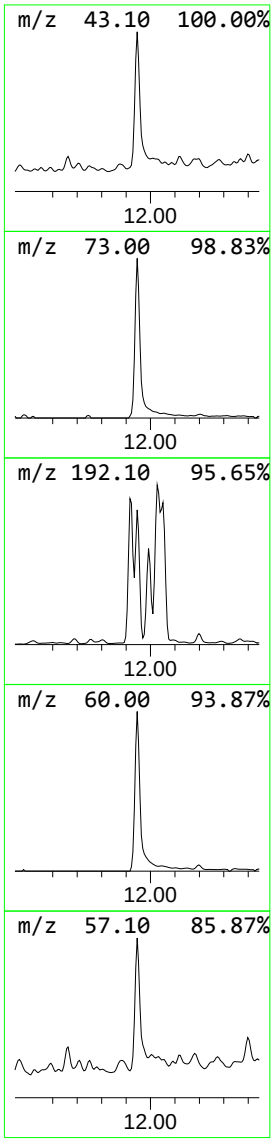
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Peak Number 10 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	8.74 ng	462993	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	Tridecanoic acid	214	C13H26O2	000638-53-9	87





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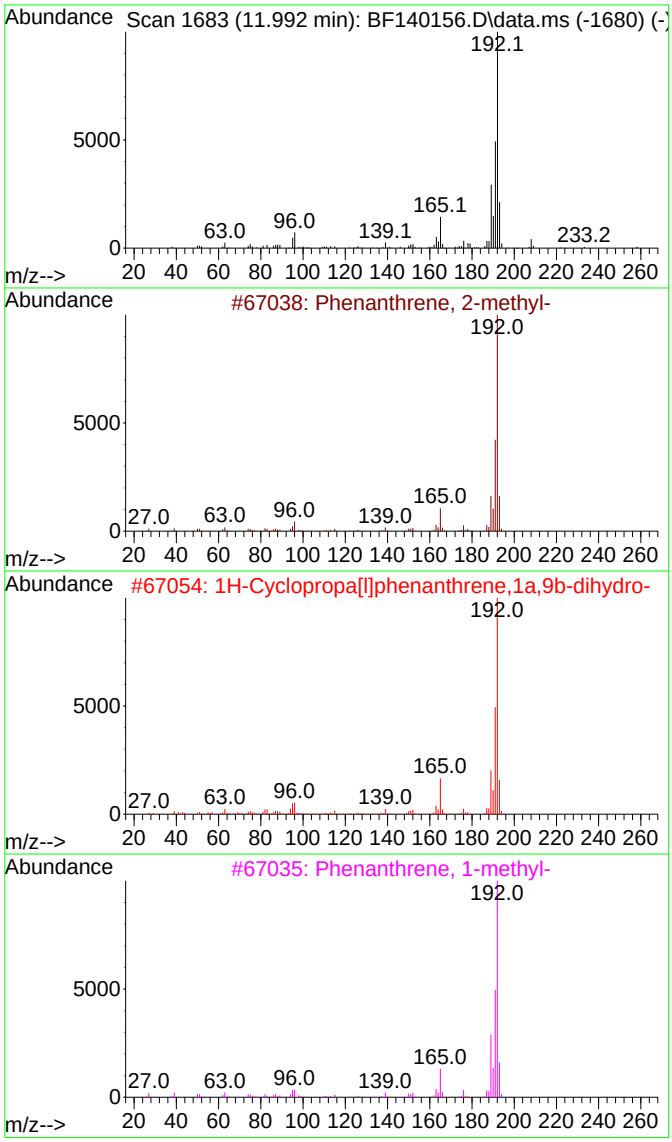
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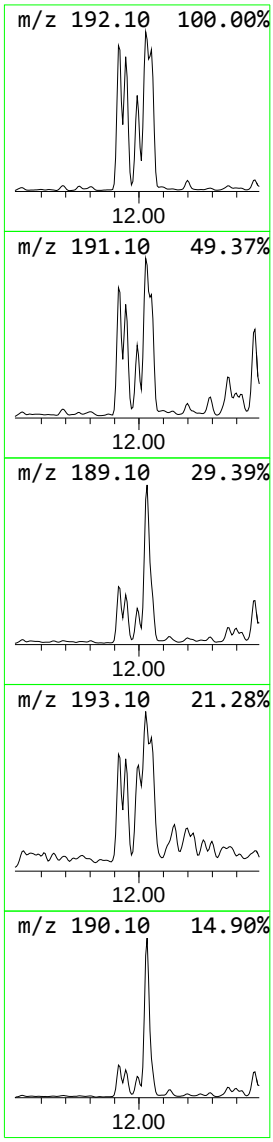
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Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.992	3.10 ng	164391	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95





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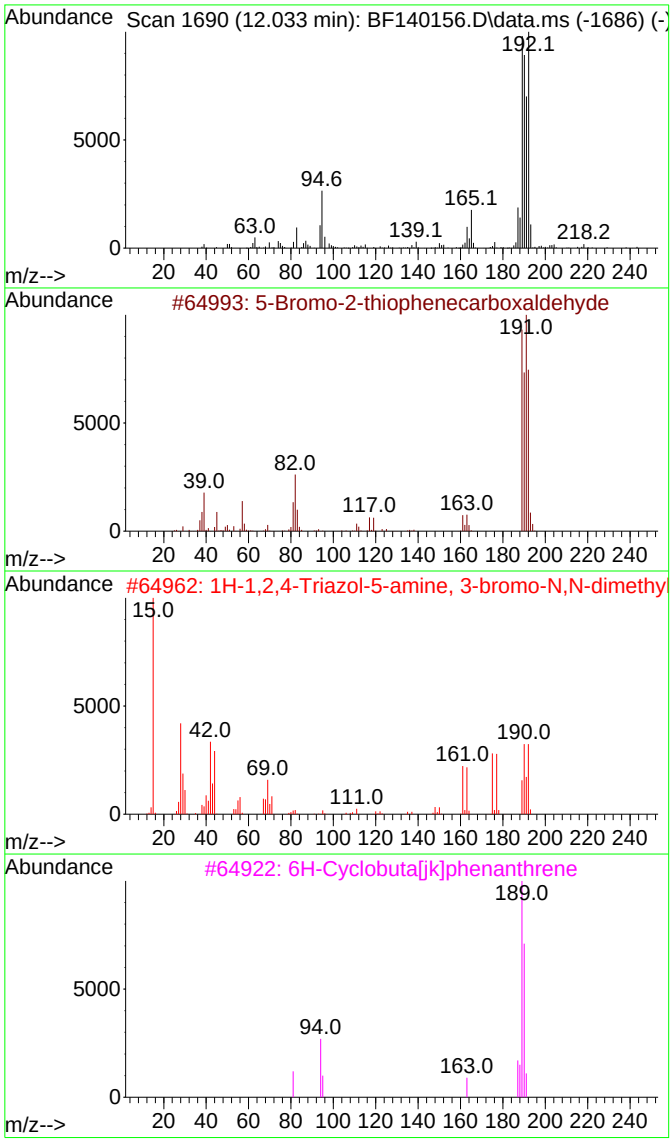
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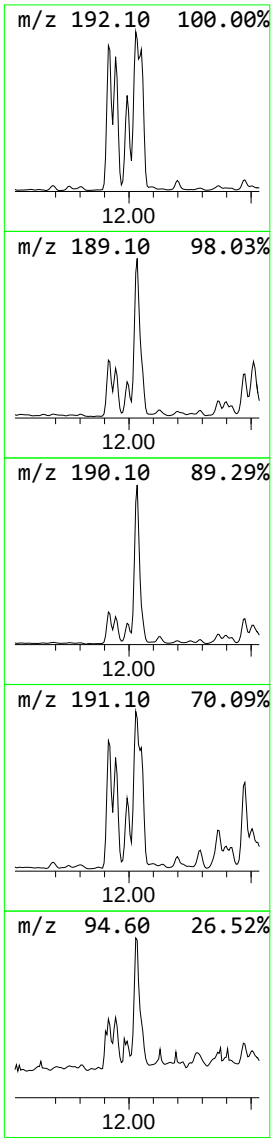
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Peak Number 12 5-Bromo-2-thiophenecarboxal... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.033	10.86 ng	575319	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Bromo-2-thiophenecarboxaldehyde	190	C5H3BrOS	004701-17-1	64
2	1H-1,2,4-Triazol-5-amine, 3-brom...	190	C4H7BrN4	1000460-85-7	53
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	46





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Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

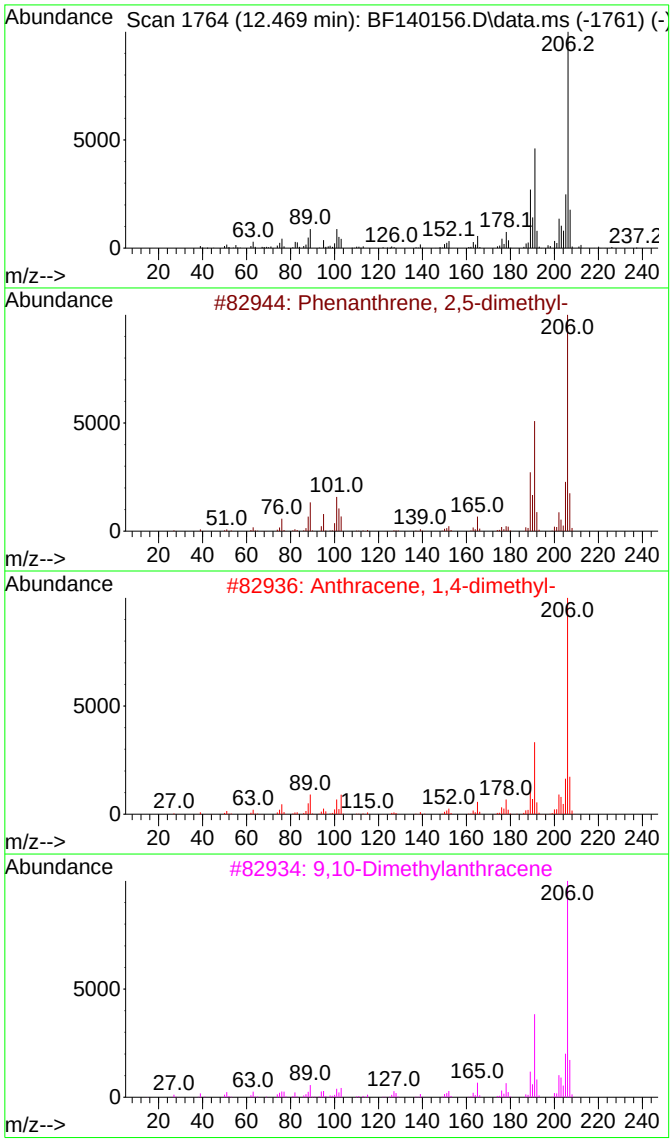
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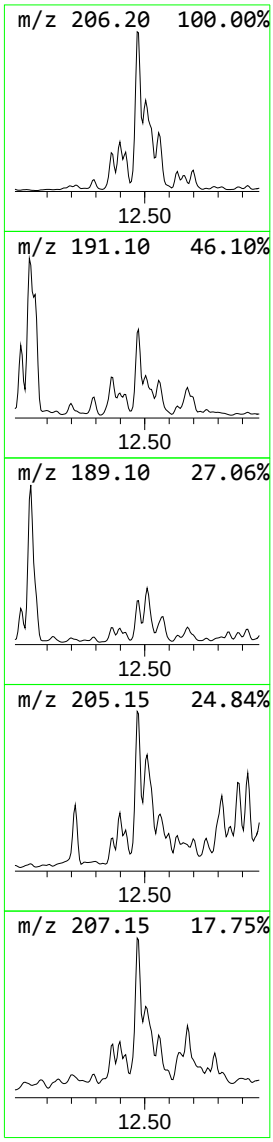
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Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.469	3.21 ng	170078	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

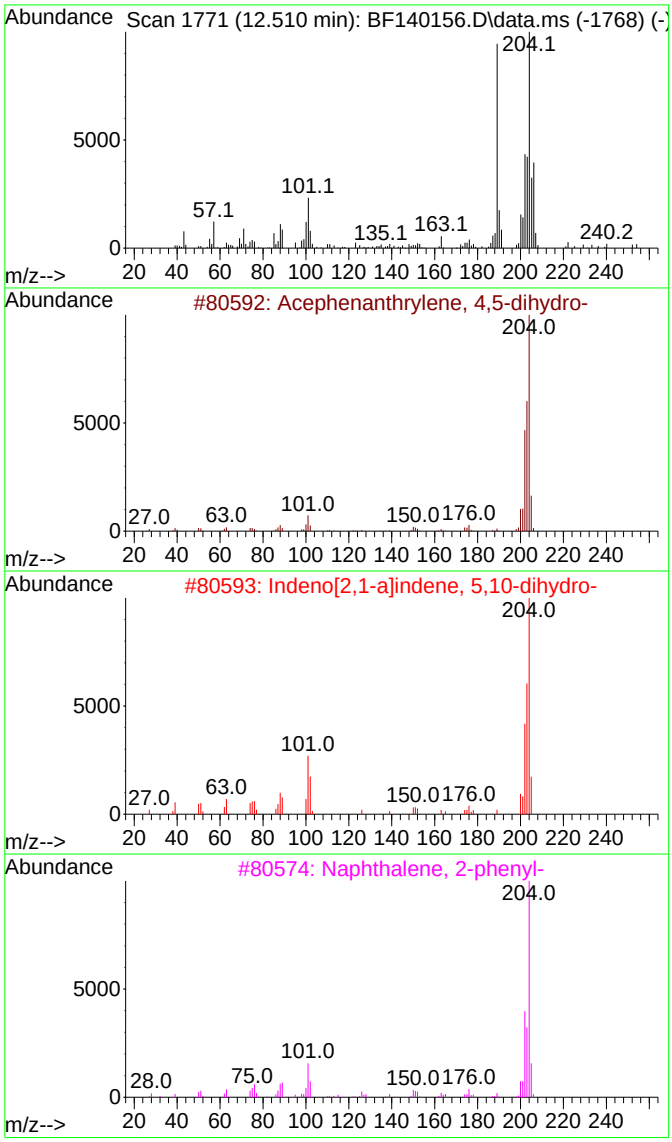
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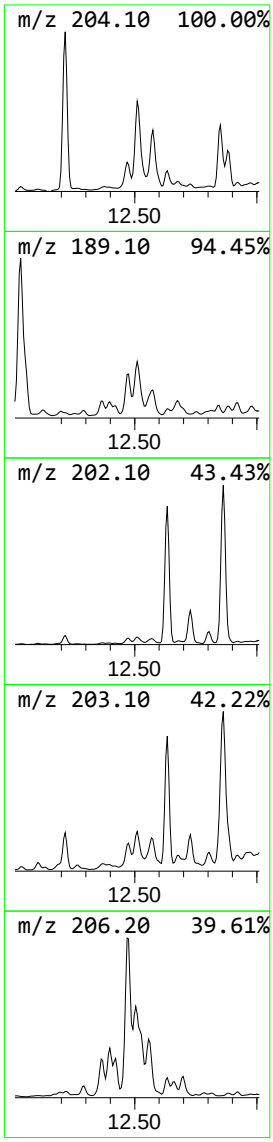
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Peak Number 14 unknown12.510 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.510	2.88 ng	152420	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	46
2	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	46
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46
4	1H-Indol-6-ylamine, TMS derivative	204	C11H16N2Si	1000484-86-1	43
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

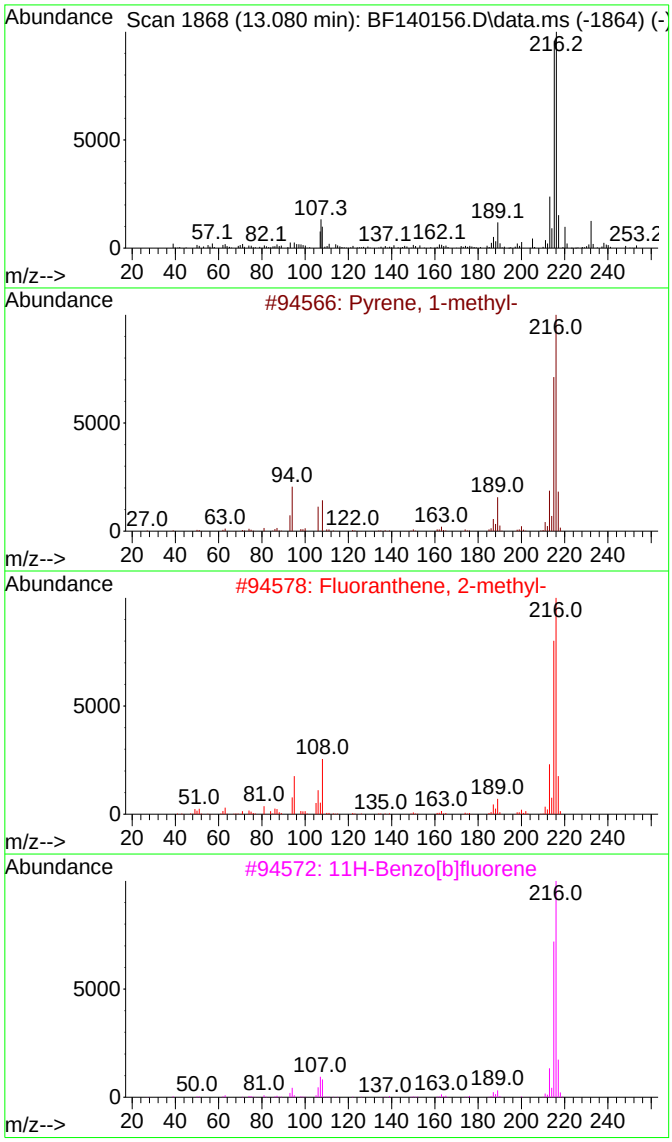
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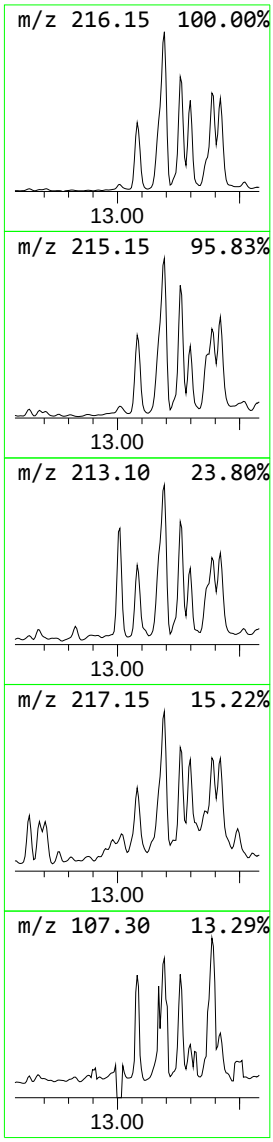
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Peak Number 15 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.080	2.69 ng	137069	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	80
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

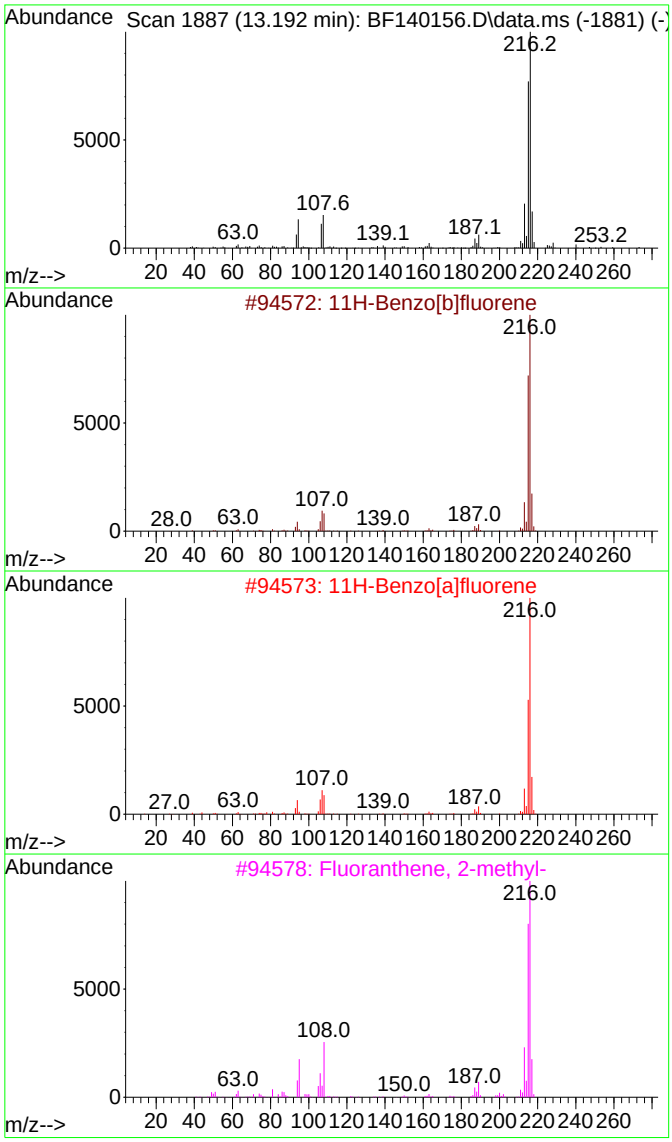
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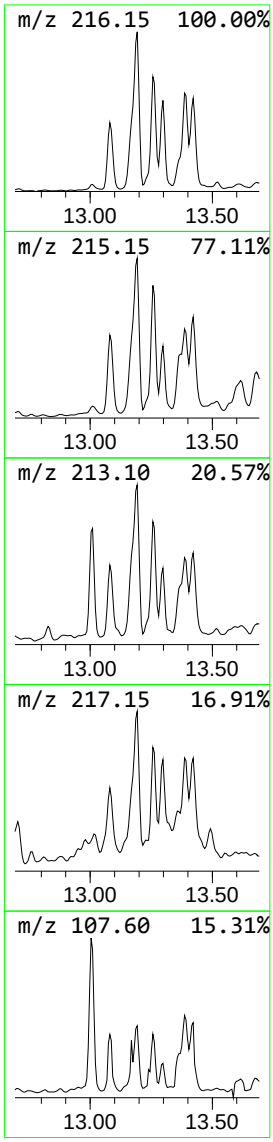
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Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.192	5.15 ng	262986	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	95
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

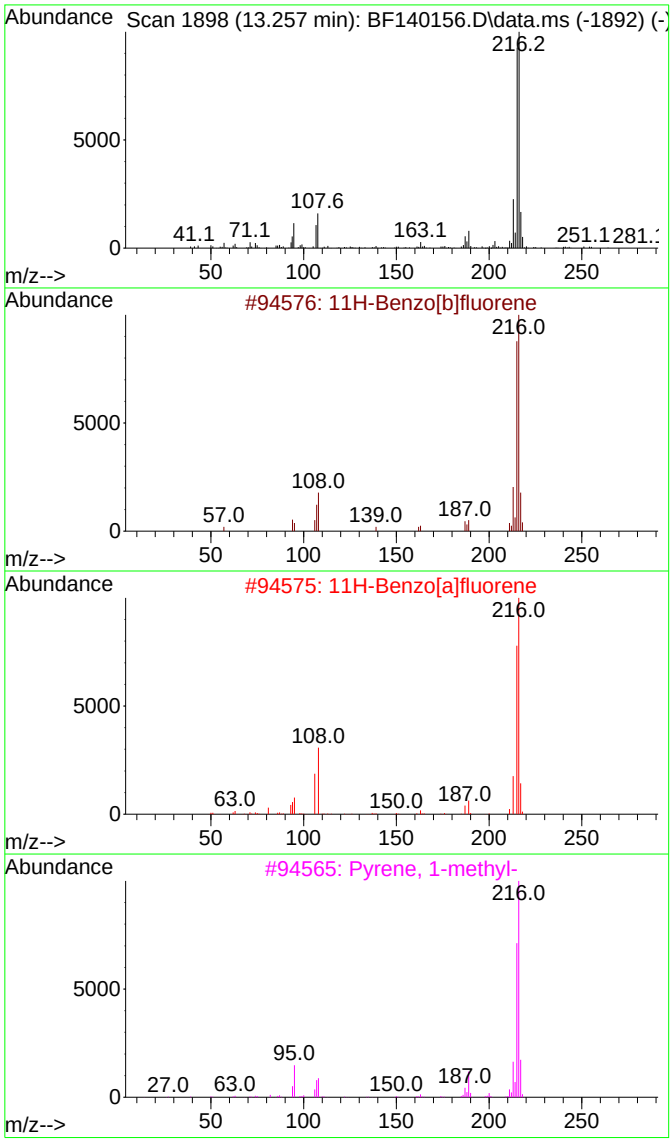
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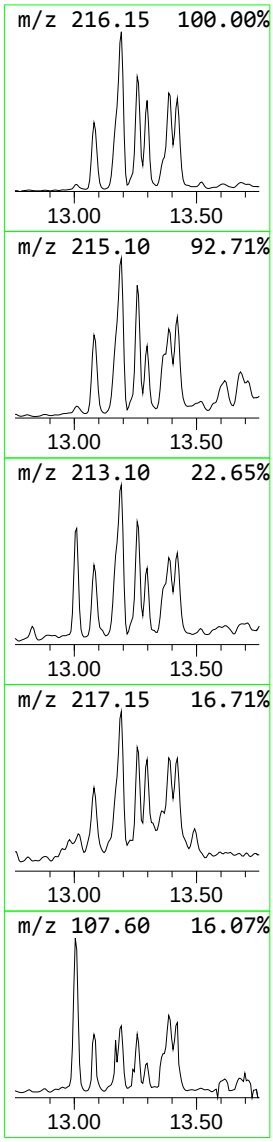
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Peak Number 17 11H-Benzo[a]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.257	3.59 ng	183318	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

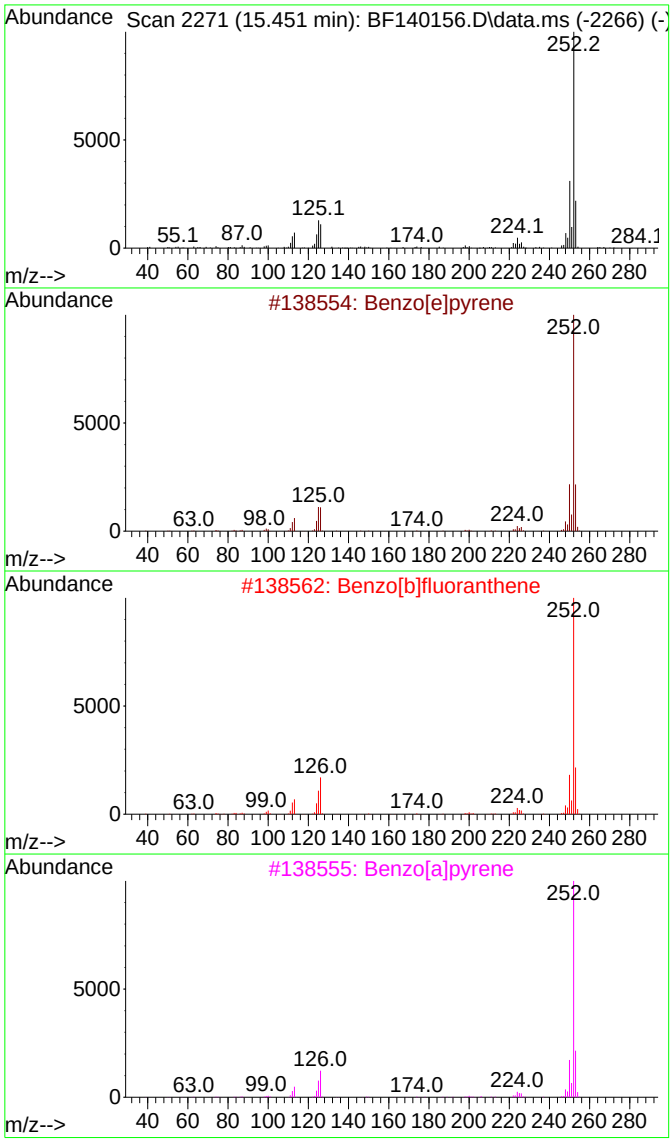
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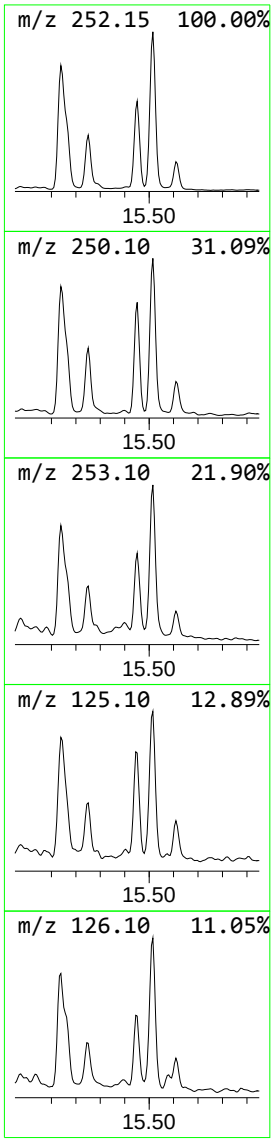
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Peak Number 18 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.451	4.04 ng	128470	Perylene-d12	15.580

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	91
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

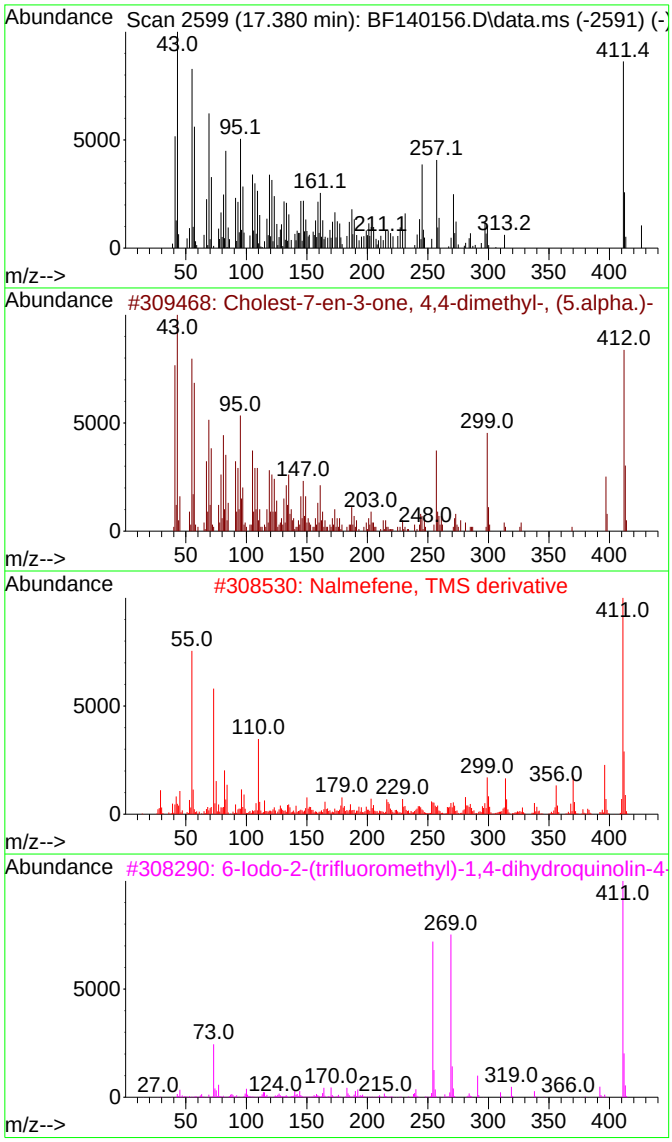
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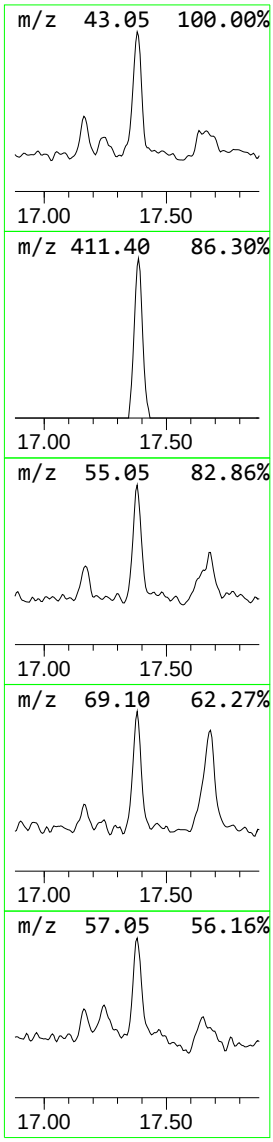
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Peak Number 19 unknown17.380 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.380	6.72 ng	213657	Perylene-d12	15.580

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholest-7-en-3-one, 4,4-dimethyl...	412	C29H48O	002604-90-2	46
2	Nalmefene, TMS derivative	411	C24H33NO3Si	1000333-47-8	27
3	6-Iodo-2-(trifluoromethyl)-1,4-d...	411	C13H13F3INOSi	1000501-52-0	27
4	Tricosanoic acid, TBDMS derivative	468	C29H60O2Si	1000352-40-3	27
5	2-naphthalenecarboxamide, N-hexa...	411	C27H41NO2	1000402-75-9	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

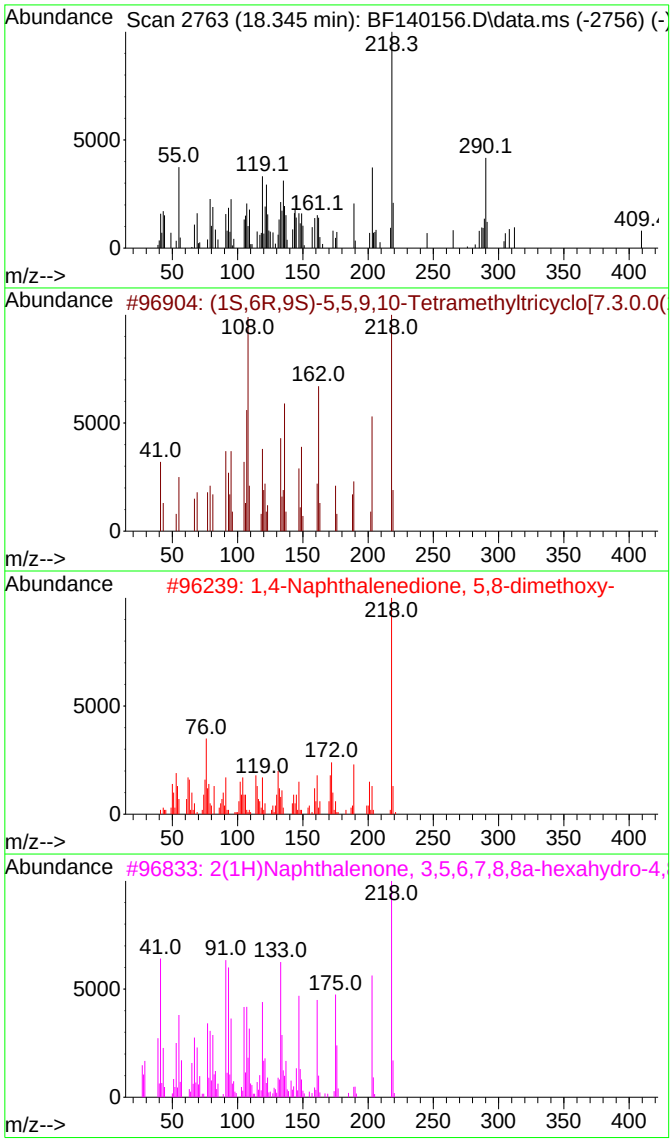
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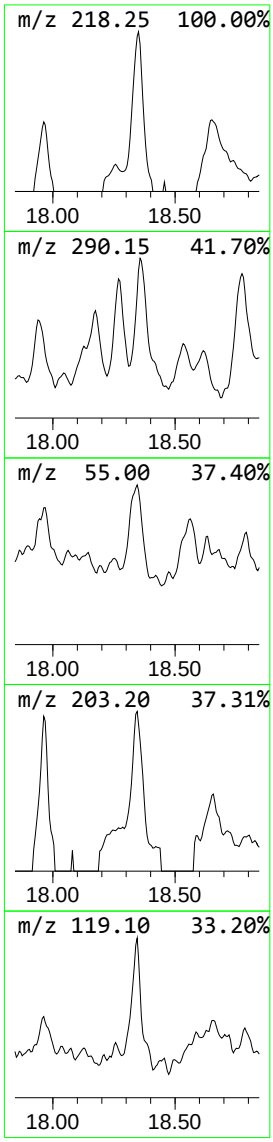
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Peak Number 20 unknown18.345 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.345	4.38 ng	139161	Perylene-d12	15.580

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1S,6R,9S)-5,5,9,10-Tetramethylt...	218	C16H26	1000298-97-8	49
2	1,4-Naphthalenedione, 5,8-dimeth...	218	C12H10O4	015013-16-8	46
3	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	46
4	Urs-12-en-3-ol, acetate, (3.beta.)-	468	C32H52O2	000863-76-3	46
5	Urs-12-en-23-oic acid, 3-(acetyl...	512	C33H52O4	1000505-76-4	45





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.181	52.1	ng	1813110	1	6.881	696360	20.0
o-Cymene	7.675	4.3	ng	258406	2	8.163	1211560	20.0
Benzene, 2-ethe...	7.898	3.9	ng	234344	2	8.163	1211560	20.0
Hexadecane	8.751	3.7	ng	224222	2	8.163	1211560	20.0
Silane, trichlo...	9.322	4.5	ng	233406	3	9.922	1030060	20.0
Naphthalene, 2,...	9.575	3.7	ng	191144	3	9.922	1030060	20.0
Sulfurous acid,...	9.851	2.9	ng	149389	3	9.922	1030060	20.0
Benzophenone	10.639	9.7	ng	498736	3	9.922	1030060	20.0
Anthracene, 2-m...	11.916	3.8	ng	199659	4	11.416	1059810	20.0
n-Hexadecanoic ...	11.945	8.7	ng	462993	4	11.416	1059810	20.0
Phenanthrene, 2...	11.992	3.1	ng	164391	4	11.416	1059810	20.0
5-Bromo-2-thiop...	12.033	10.9	ng	575319	4	11.416	1059810	20.0
Phenanthrene, 2...	12.469	3.2	ng	170078	4	11.416	1059810	20.0
unknown12.510	12.510	2.9	ng	152420	4	11.416	1059810	20.0
Pyrene, 1-methyl-	13.080	2.7	ng	137069	5	14.069	1020450	20.0
11H-Benzo[b]flu...	13.192	5.2	ng	262986	5	14.069	1020450	20.0
11H-Benzo[a]flu...	13.257	3.6	ng	183318	5	14.069	1020450	20.0
Benzo[e]pyrene	15.451	4.0	ng	128470	6	15.580	636013	20.0
unknown17.380	17.380	6.7	ng	213657	6	15.580	636013	20.0
unknown18.345	18.345	4.4	ng	139161	6	15.580	636013	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 30 01:04:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	121877	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	473789	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	240944	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	345918	20.000	ng	0.00
76) Chrysene-d12	14.051	240	236214	20.000	ng	0.00
86) Perylene-d12	15.545	264	244867	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	612161	78.631	ng	0.01
7) Phenol-d6	6.510	99	780620	77.418	ng	0.00
23) Nitrobenzene-d5	7.445	82	501867	58.708	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	143293	63.581	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	864050	59.267	ng	0.00
79) Terphenyl-d14	12.998	244	614896	42.418	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	56966	3.486	ng	99
75) Fluoranthene	12.622	202	51573	3.122	ng	99
78) Pyrene	12.851	202	67980	3.288	ng	98
81) Benzo(a)anthracene	14.045	228	39061m	2.540	ng	
83) Chrysene	14.080	228	32076	2.275	ng	96
90) Benzo(a)pyrene	15.480	252	28489	2.321	ng	95

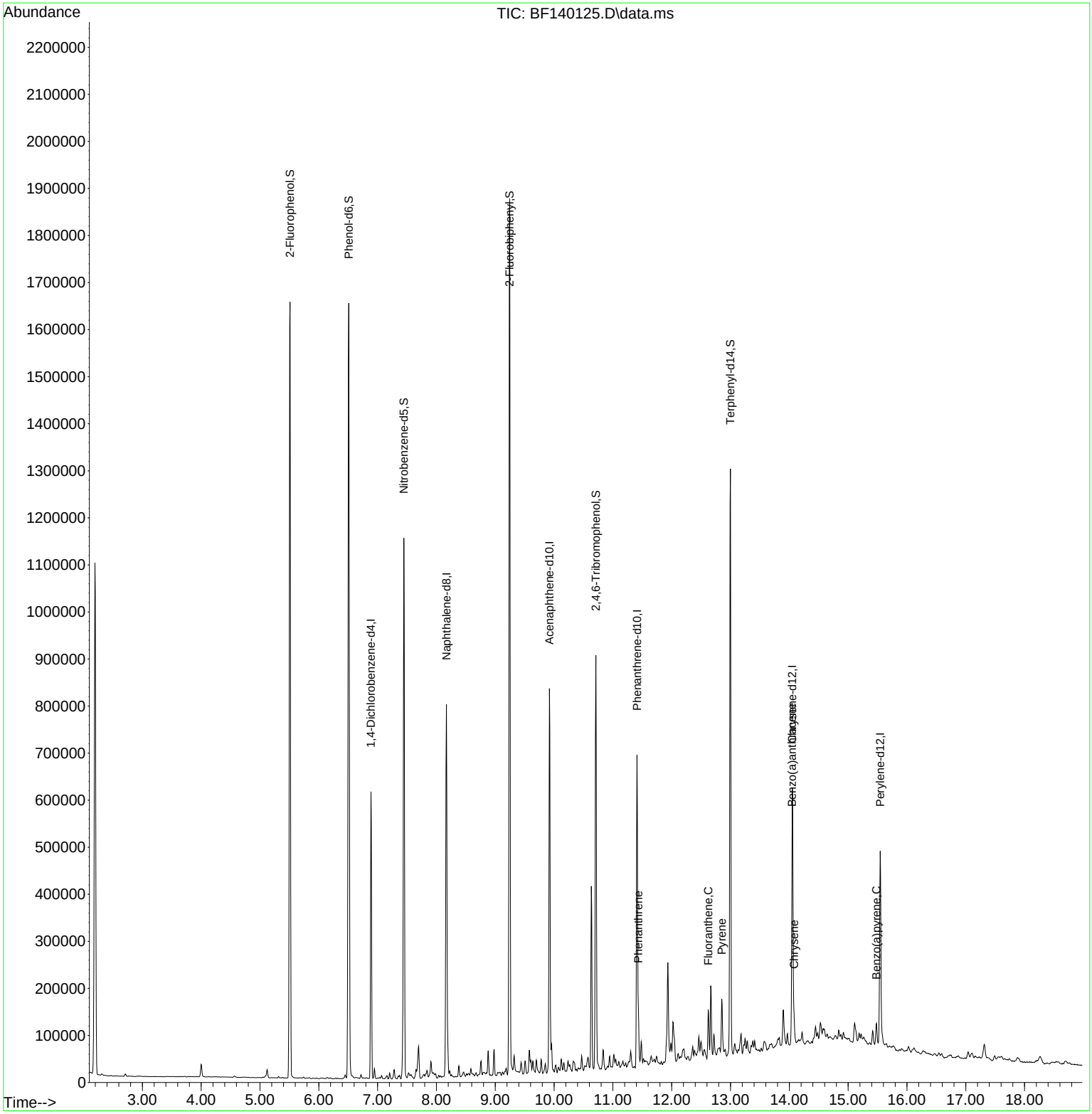
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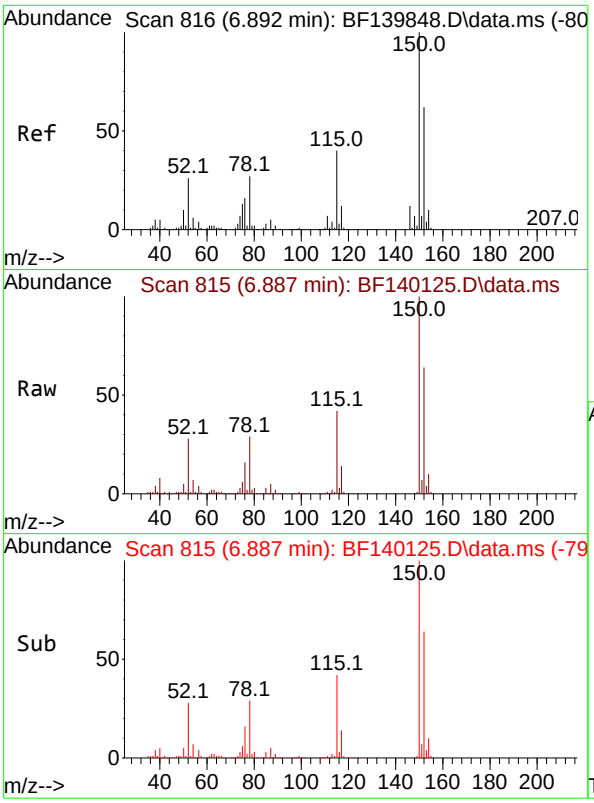
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Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 30 01:04:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

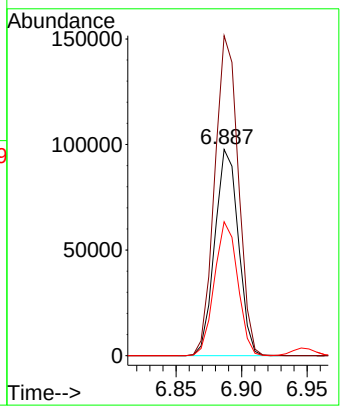




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

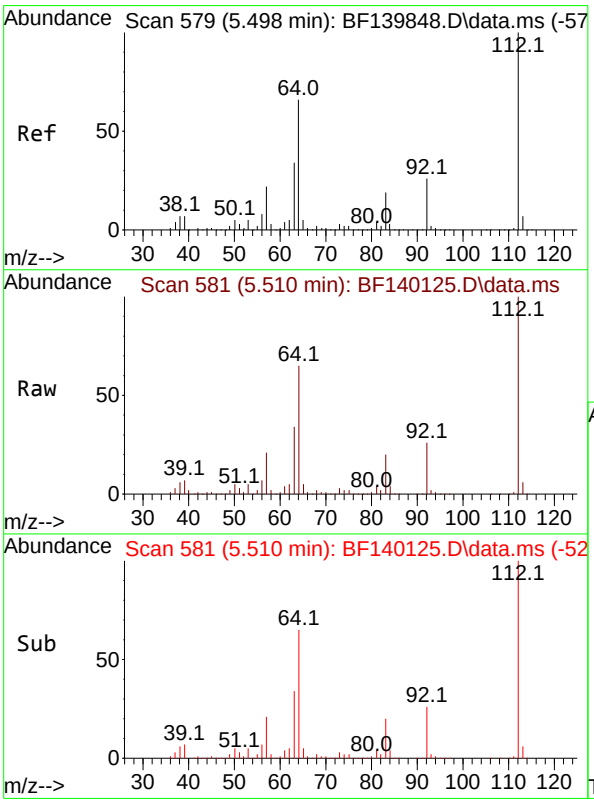
Tgt Ion:152 Resp: 12187

Ion	Ratio	Lower	Upper
152	100		
150	155.1	130.2	195.2
115	64.9	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

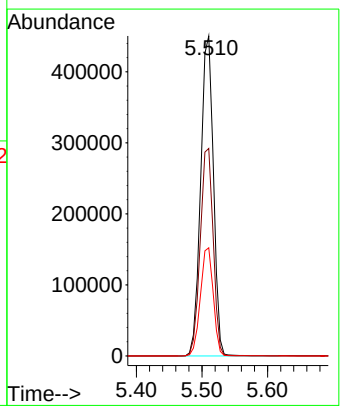
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

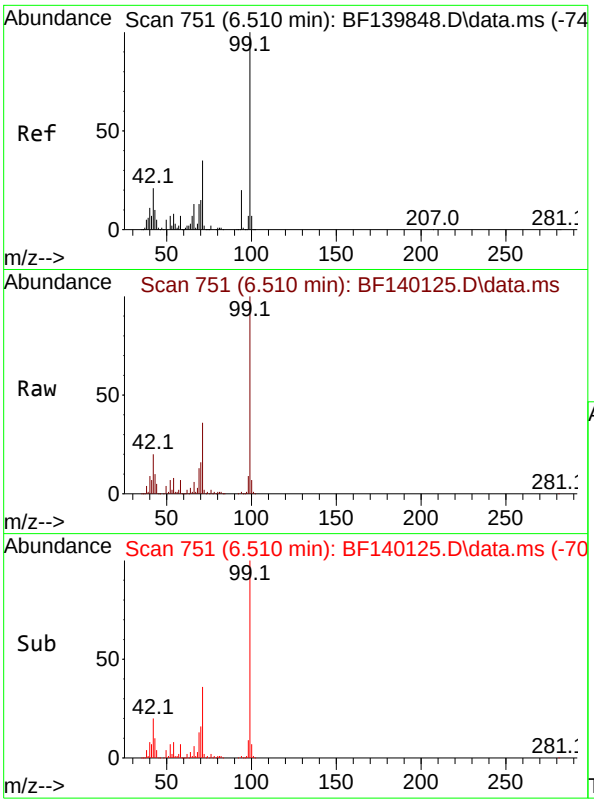


#5
2-Fluorophenol
Concen: 78.631 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:112 Resp: 612161

Ion	Ratio	Lower	Upper
112	100		
64	64.9	53.0	79.6
63	33.8	27.0	40.4

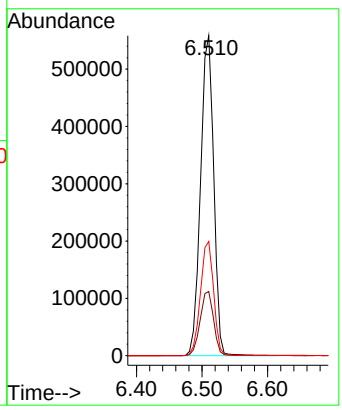




#7
Phenol-d6
Concen: 77.418 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

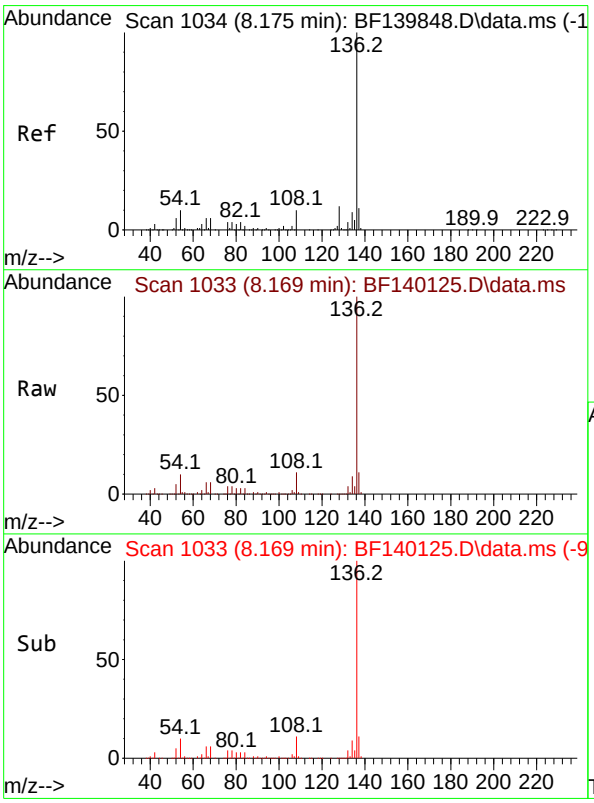
Tgt Ion: 99 Resp: 78062

Ion	Ratio	Lower	Upper
99	100		
42	20.1	16.7	25.1
71	35.7	27.7	41.5



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

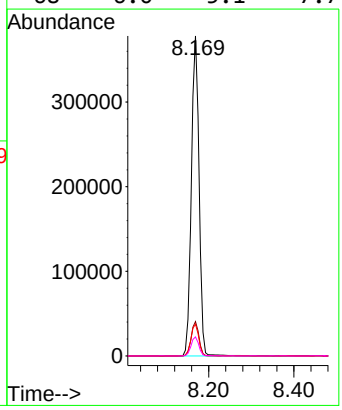
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

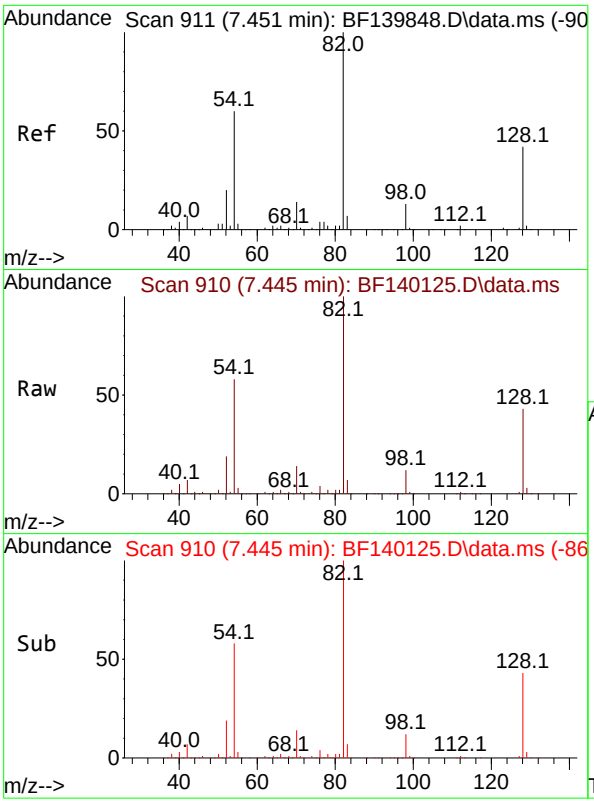


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:136 Resp: 473789

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	9.9	8.4	12.6
68	6.0	5.1	7.7

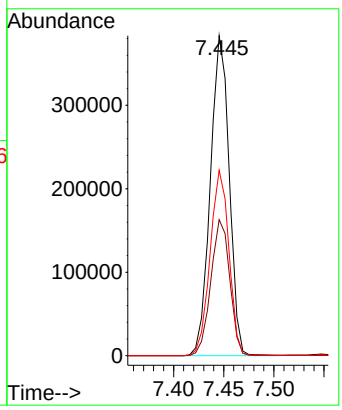




#23
Nitrobenzene-d5
Concen: 58.708 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

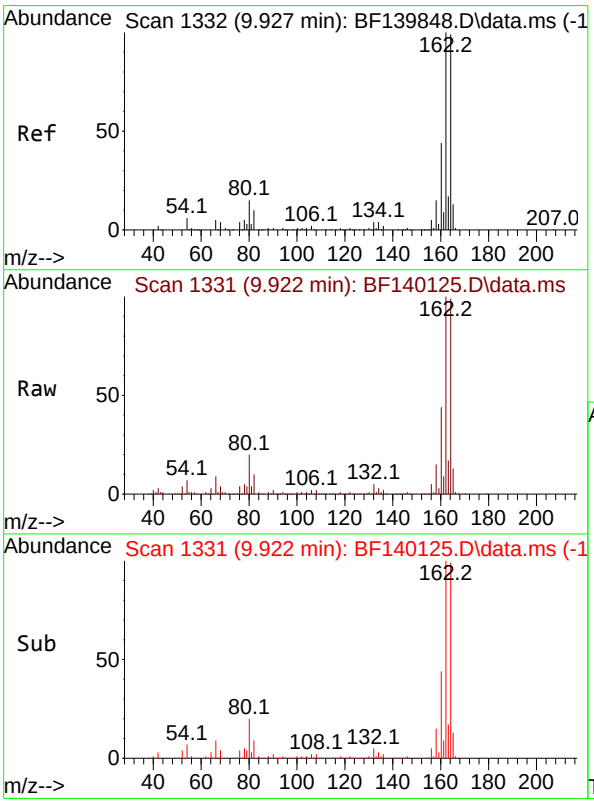
Tgt Ion: 82 Resp: 50186

Ion	Ratio	Lower	Upper
82	100		
128	42.5	33.4	50.0
54	57.9	47.8	71.8



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

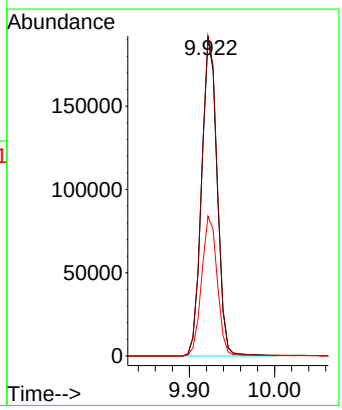
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

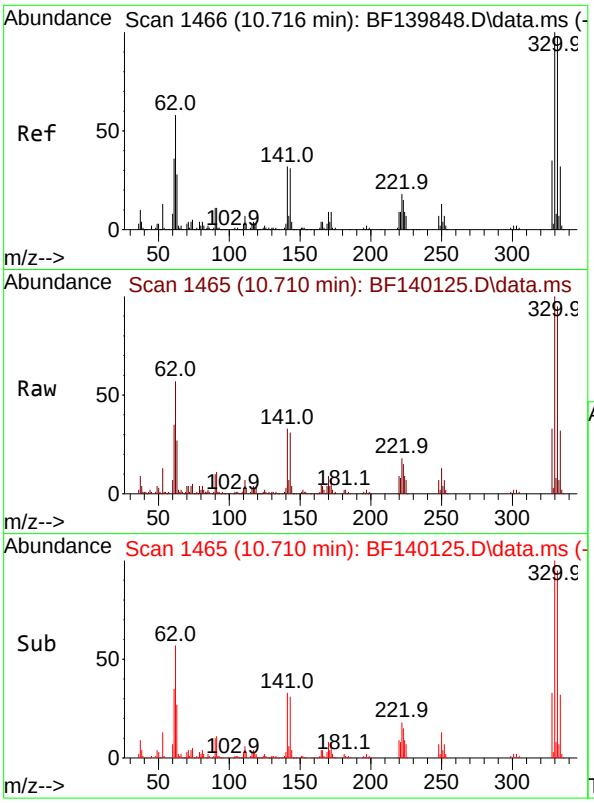


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:164 Resp: 240944

Ion	Ratio	Lower	Upper
164	100		
162	101.0	81.0	121.4
160	44.2	35.4	53.0

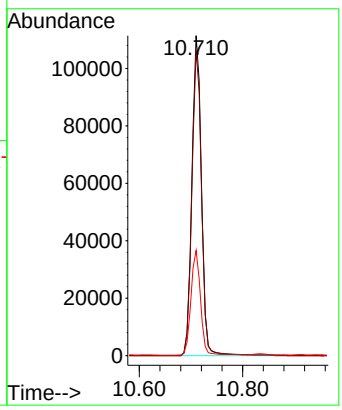




#42
2,4,6-Tribromophenol
Concen: 63.581 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

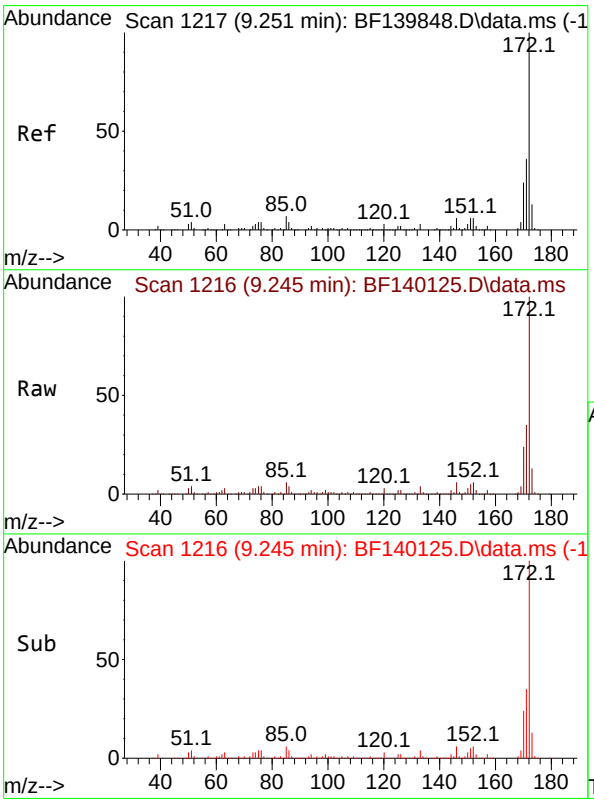
Tgt Ion:330 Resp: 14329

Ion	Ratio	Lower	Upper
330	100		
332	95.6	78.1	117.1
141	32.6	26.6	39.8



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

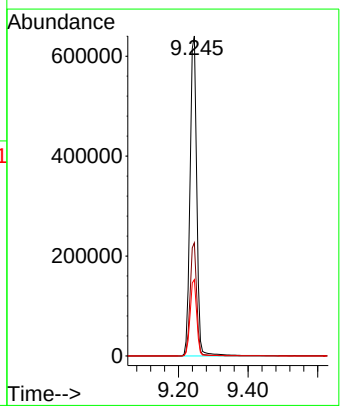
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

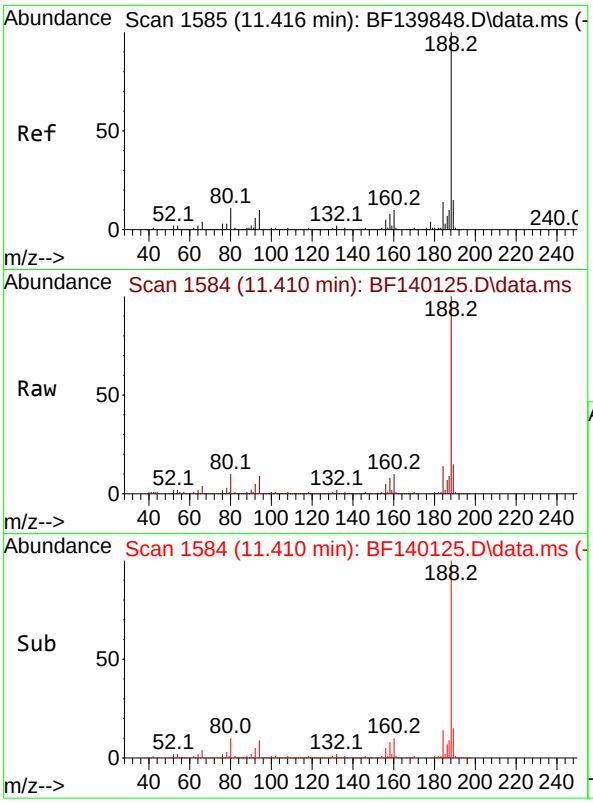


#45
2-Fluorobiphenyl
Concen: 59.267 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:172 Resp: 864050

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.8	19.1	28.7

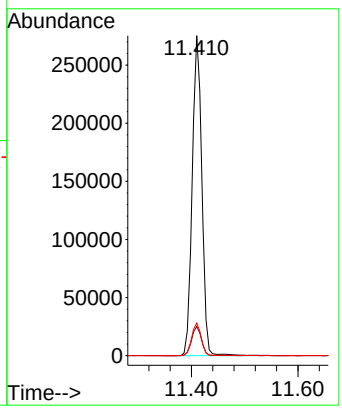




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:188 Resp: 345918

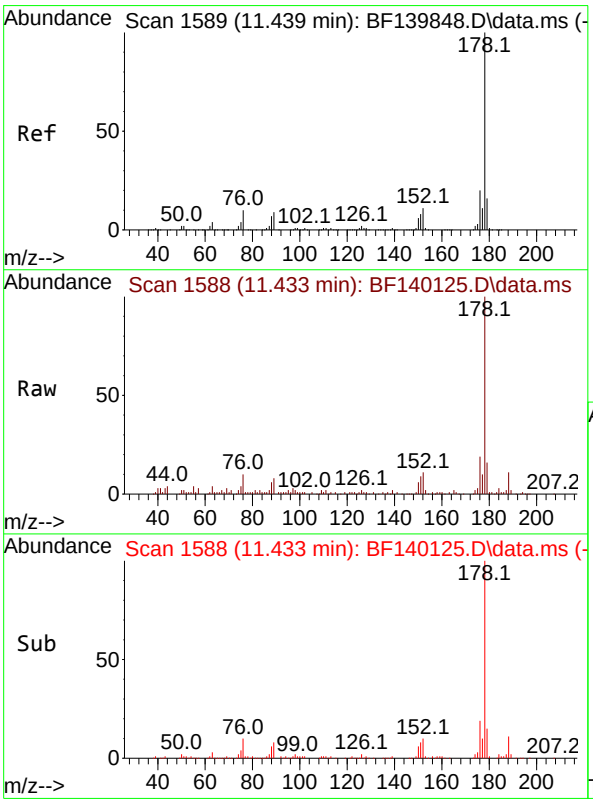
Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.9	11.9
80	10.2	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations APPROVED

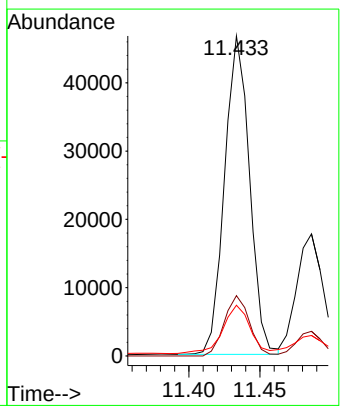
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

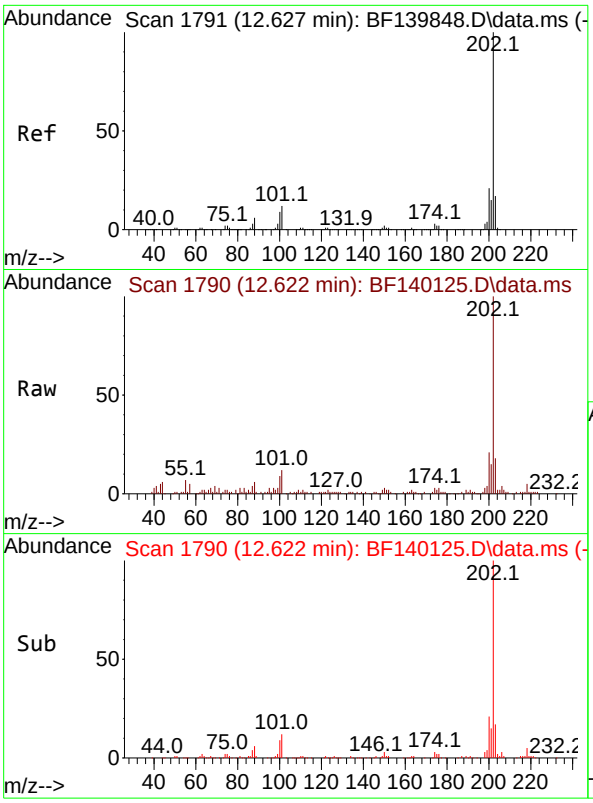


#71
Phenanthrene
Concen: 3.486 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:178 Resp: 56966

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.6
179	15.9	12.6	18.8

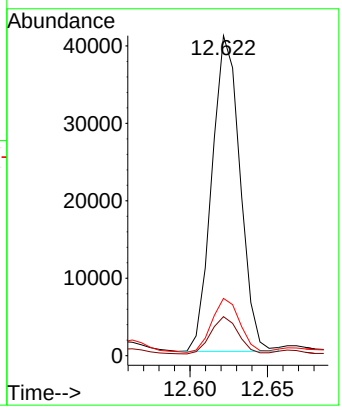




#75
Fluoranthene
Concen: 3.122 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:202 Resp: 5157

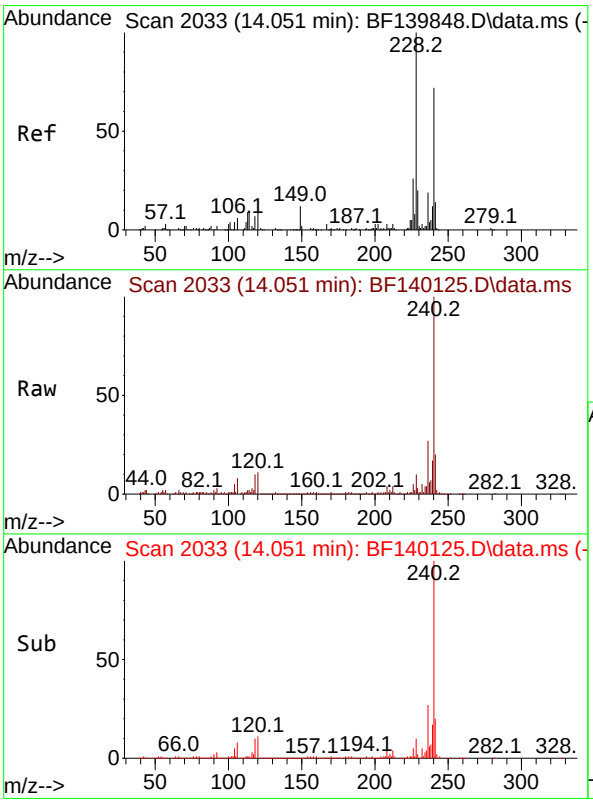
Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	31.9
203	17.9	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations
APPROVED

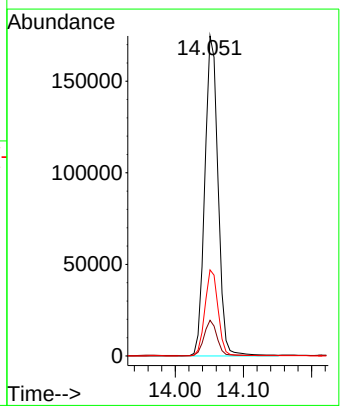
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

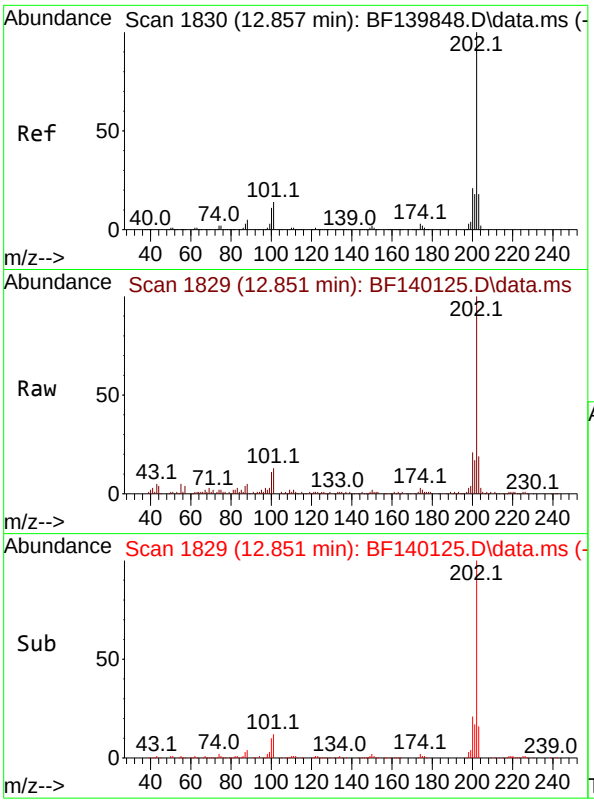


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:240 Resp: 236214

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.4	14.2
236	26.9	20.9	31.3

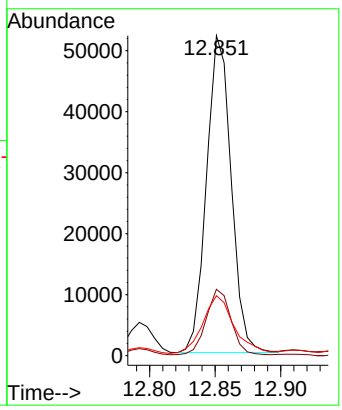




#78
Pyrene
Concen: 3.288 ng
RT: 12.851 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

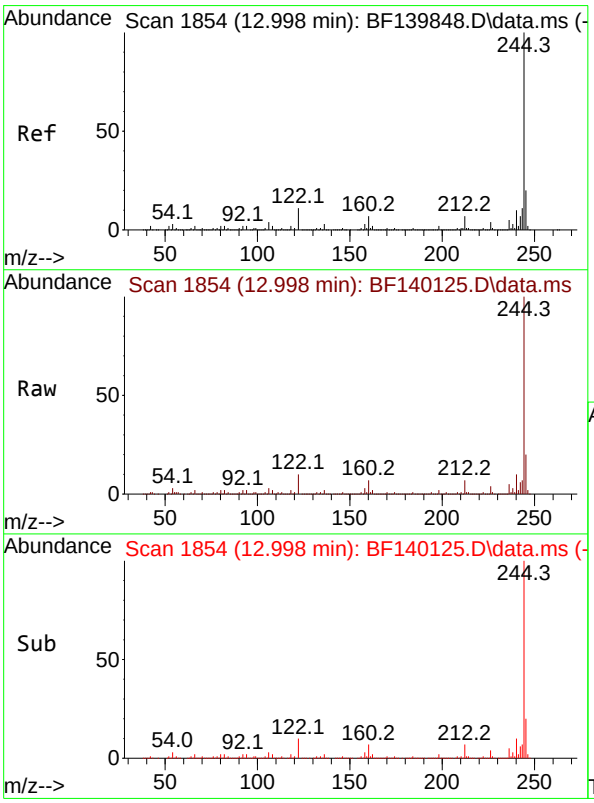
Tgt Ion:202 Resp: 6798

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.2	25.8
203	18.8	14.2	21.4



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

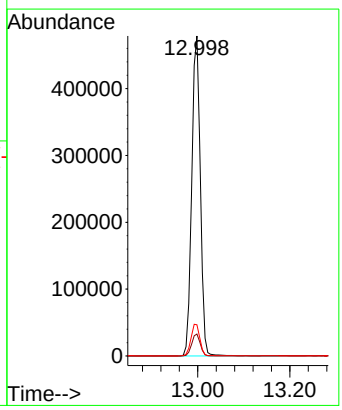
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

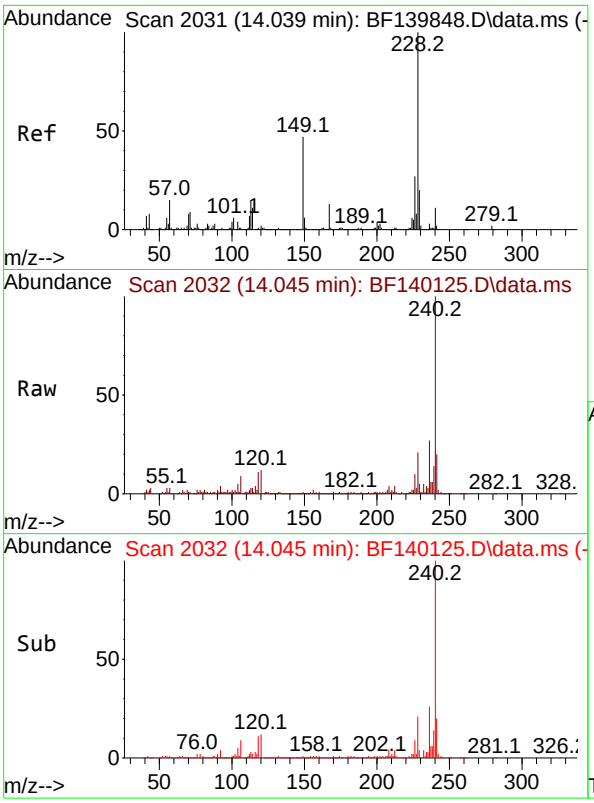


#79
Terphenyl-d14
Concen: 42.418 ng
RT: 12.998 min Scan# 1854
Delta R.T. 0.000 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:244 Resp: 614896

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	9.8	8.6	13.0

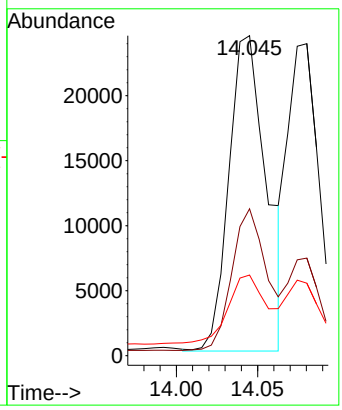




#81
Benzo(a)anthracene
Concen: 2.540 ng m
RT: 14.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

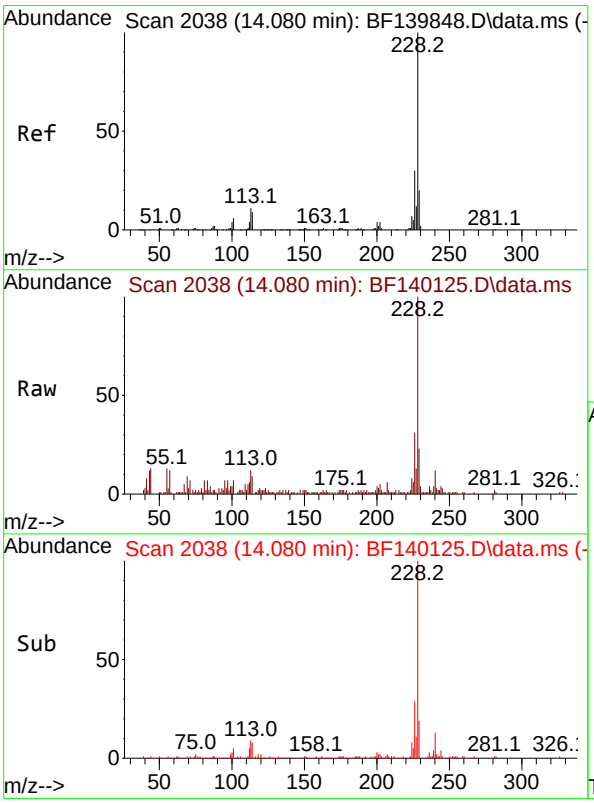
Tgt Ion:228 Resp: 3906

Ion	Ratio	Lower	Upper
228	100		
226	45.9	21.6	32.4
229	25.2	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

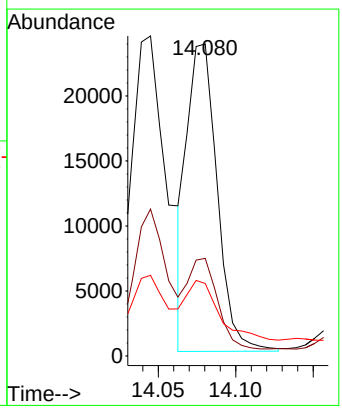
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

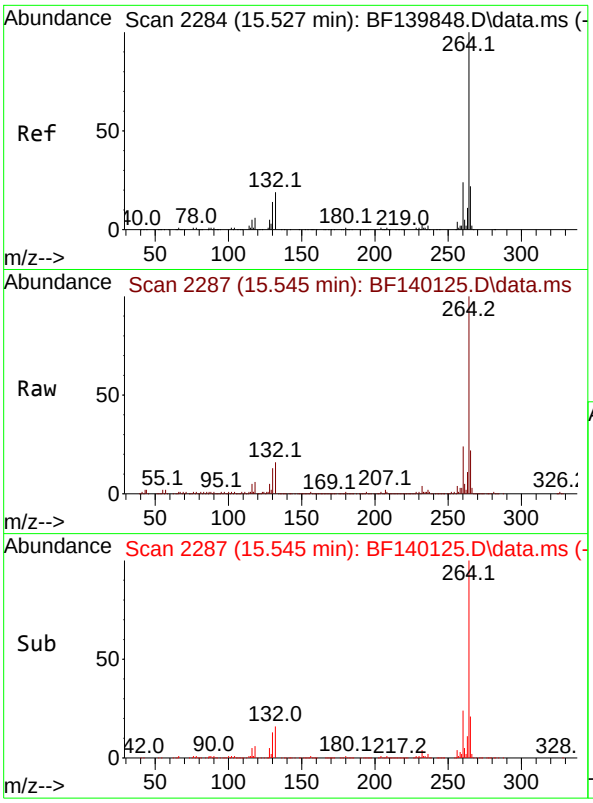


#83
Chrysene
Concen: 2.275 ng
RT: 14.080 min Scan# 2038
Delta R.T. 0.000 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:228 Resp: 32076

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.1	36.1
229	23.3	15.8	23.6

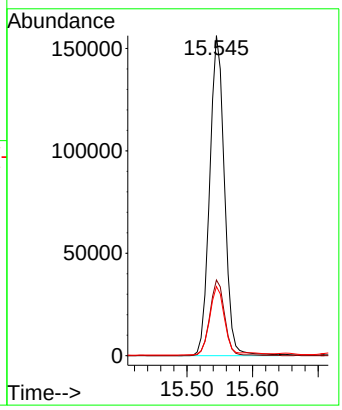




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:264 Resp: 24486

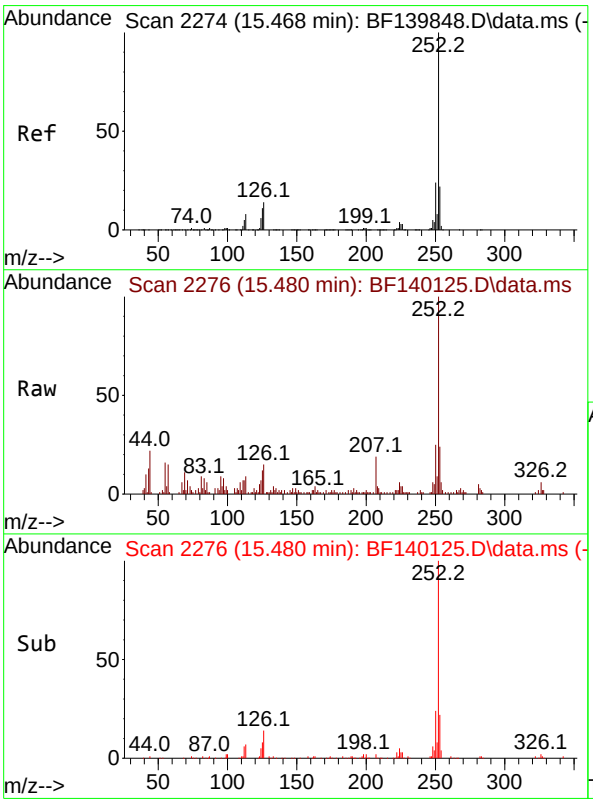
Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.4	29.2
265	21.6	17.4	26.0



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations
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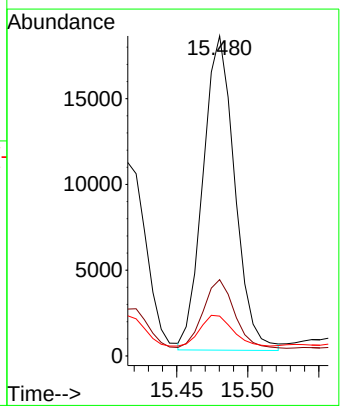
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



#90
Benzo(a)pyrene
Concen: 2.321 ng
RT: 15.480 min Scan# 2276
Delta R.T. 0.012 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:252 Resp: 28489

Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.3	25.9
125	12.4	8.7	13.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140125.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.193	9	17	25	rVB	1088074	1758043	71.25%	7.928%
2	3.999	318	324	332	rBV	26173	41287	1.67%	0.186%
3	5.122	505	515	520	rVB2	17224	31171	1.26%	0.141%
4	5.510	574	581	586	rBV	1648997	2257782	91.50%	10.182%
5	6.510	744	751	760	rBV	1646359	2345106	95.04%	10.576%
6	6.887	810	815	821	rBV	609379	754398	30.57%	3.402%
7	7.281	876	882	888	rBV2	19713	31166	1.26%	0.141%
8	7.445	901	910	915	rBV	1149031	1535698	62.24%	6.926%
9	7.651	939	945	947	rBV2	19479	29157	1.18%	0.131%
10	7.698	947	953	958	rVB2	68012	117577	4.77%	0.530%
11	7.904	981	988	993	rBV3	32616	57208	2.32%	0.258%
12	8.169	1025	1033	1040	rBV	790526	1086753	44.04%	4.901%
13	8.381	1064	1069	1074	rVB	22820	29587	1.20%	0.133%
14	8.757	1129	1133	1137	rVB	28555	32499	1.32%	0.147%
15	8.881	1150	1154	1158	rVB	52076	61979	2.51%	0.280%
16	8.981	1166	1171	1176	rVB	55762	68391	2.77%	0.308%
17	9.245	1210	1216	1221	rBV	1861894	2467471	100.00%	11.128%
18	9.322	1225	1229	1238	rVB	34980	54911	2.23%	0.248%
19	9.439	1245	1249	1255	rVB	25365	38396	1.56%	0.173%
20	9.504	1255	1260	1265	rBV	27995	43152	1.75%	0.195%
21	9.581	1268	1273	1276	rVV	48747	72916	2.96%	0.329%
22	9.639	1280	1283	1290	rVB3	23533	33547	1.36%	0.151%
23	9.698	1290	1293	1302	rVB	26992	41218	1.67%	0.186%
24	9.781	1303	1307	1311	rVB	29818	38729	1.57%	0.175%
25	9.851	1312	1319	1323	rVB2	20368	30786	1.25%	0.139%
26	9.922	1323	1331	1335	rBV	817926	1056036	42.80%	4.762%
27	9.957	1335	1337	1341	rVB	54373	53837	2.18%	0.243%
28	10.122	1361	1365	1369	rBV3	23629	32062	1.30%	0.145%
29	10.239	1380	1385	1388	rBV2	21928	34086	1.38%	0.154%
30	10.328	1396	1400	1406	rBV4	21879	49834	2.02%	0.225%
31	10.469	1421	1424	1429	rVB2	30697	39082	1.58%	0.176%
32	10.575	1437	1442	1447	rVV3	27728	58376	2.37%	0.263%
33	10.633	1447	1452	1459	rVV	391177	501396	20.32%	2.261%
34	10.710	1459	1465	1477	rVV	881778	1150978	46.65%	5.191%
35	10.833	1481	1486	1493	rVB	42768	71871	2.91%	0.324%
36	10.945	1501	1505	1509	rBV	23217	28240	1.14%	0.127%

Sample Results: **BF140125.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.016	1512	1517	1520	rBV3	26625	41409	1.68%	0.187%
38	11.304	1563	1566	1572	rVB2	34728	49619	2.01%	0.224%
39	11.410	1579	1584	1592	rBV2	665165	984176	39.89%	4.438%
40	11.480	1592	1596	1600	rVB	45007	62774	2.54%	0.283%
41	11.933	1665	1673	1679	rBV2	211475	375151	15.20%	1.692%
42	12.022	1685	1688	1697	rVB	83676	174038	7.05%	0.785%
43	12.463	1759	1763	1766	rBV	33039	39648	1.61%	0.179%
44	12.498	1766	1769	1775	rVB2	29925	47729	1.93%	0.215%
45	12.557	1775	1779	1786	rVB4	19367	42834	1.74%	0.193%
46	12.622	1786	1790	1794	rBV	104452	145188	5.88%	0.655%
47	12.663	1794	1797	1803	rVB	146157	185046	7.50%	0.835%
48	12.716	1803	1806	1814	rVB	43486	60423	2.45%	0.272%
49	12.851	1825	1829	1835	rVB	111655	155023	6.28%	0.699%
50	12.998	1848	1854	1862	rVB	1243943	1626866	65.93%	7.337%
51	13.074	1863	1867	1874	rVV2	20130	37320	1.51%	0.168%
52	13.180	1879	1885	1889	rVB	41687	72574	2.94%	0.327%
53	13.286	1900	1903	1910	rVB2	25780	38825	1.57%	0.175%
54	13.898	2002	2007	2015	rBV	74421	135355	5.49%	0.610%
55	13.969	2016	2019	2025	rVB4	24151	29976	1.21%	0.135%
56	14.051	2027	2033	2045	rBV2	544721	870255	35.27%	3.925%
57	15.110	2209	2213	2221	rVB	37266	81467	3.30%	0.367%
58	15.416	2262	2265	2271	rVB	29110	43379	1.76%	0.196%
59	15.480	2272	2276	2281	rVV	44652	69894	2.83%	0.315%
60	15.545	2281	2287	2300	rVB	411809	670432	27.17%	3.023%

Sum of corrected areas: 22174127

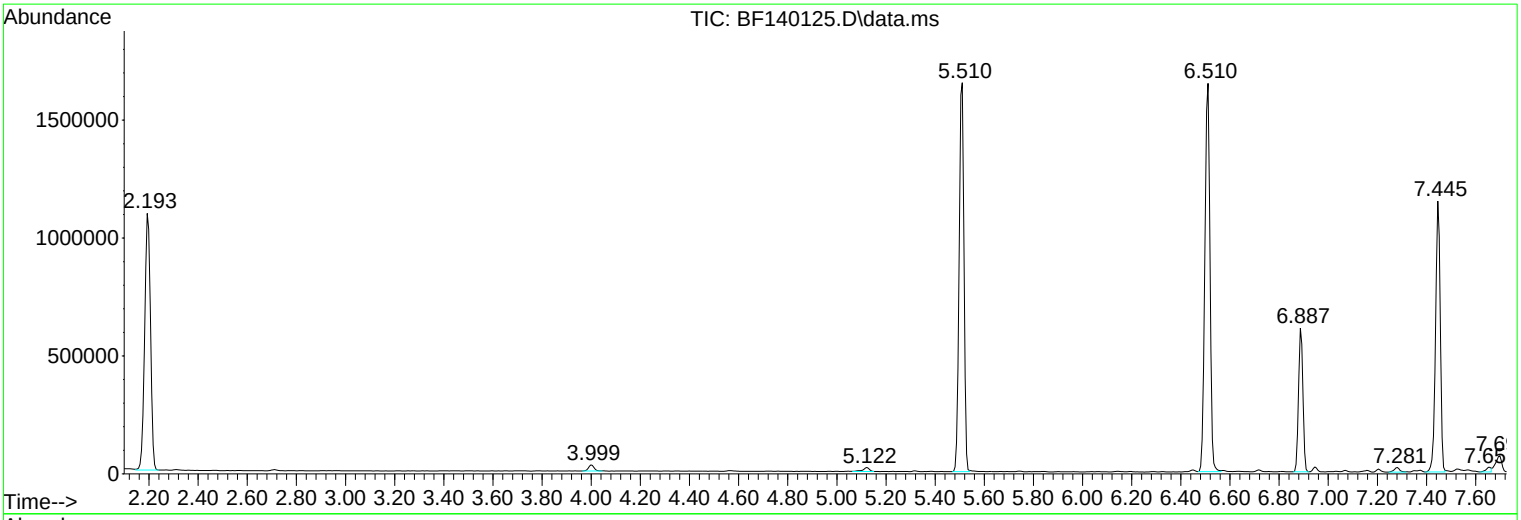
Sample Results: **BF140125.D**

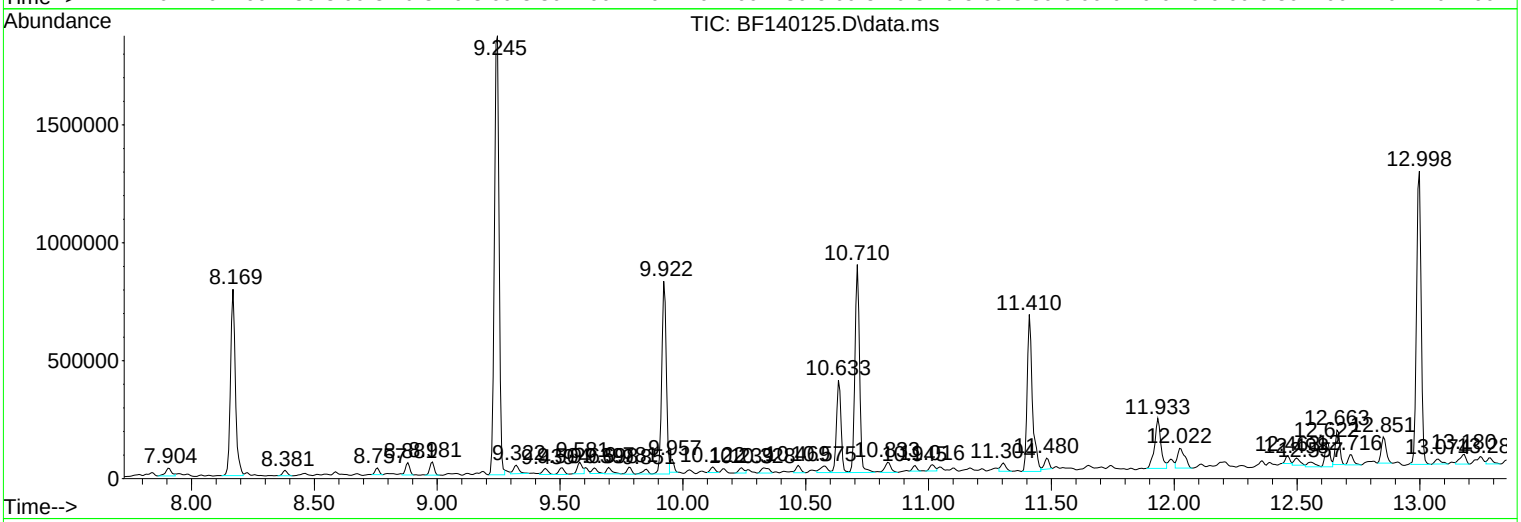
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Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

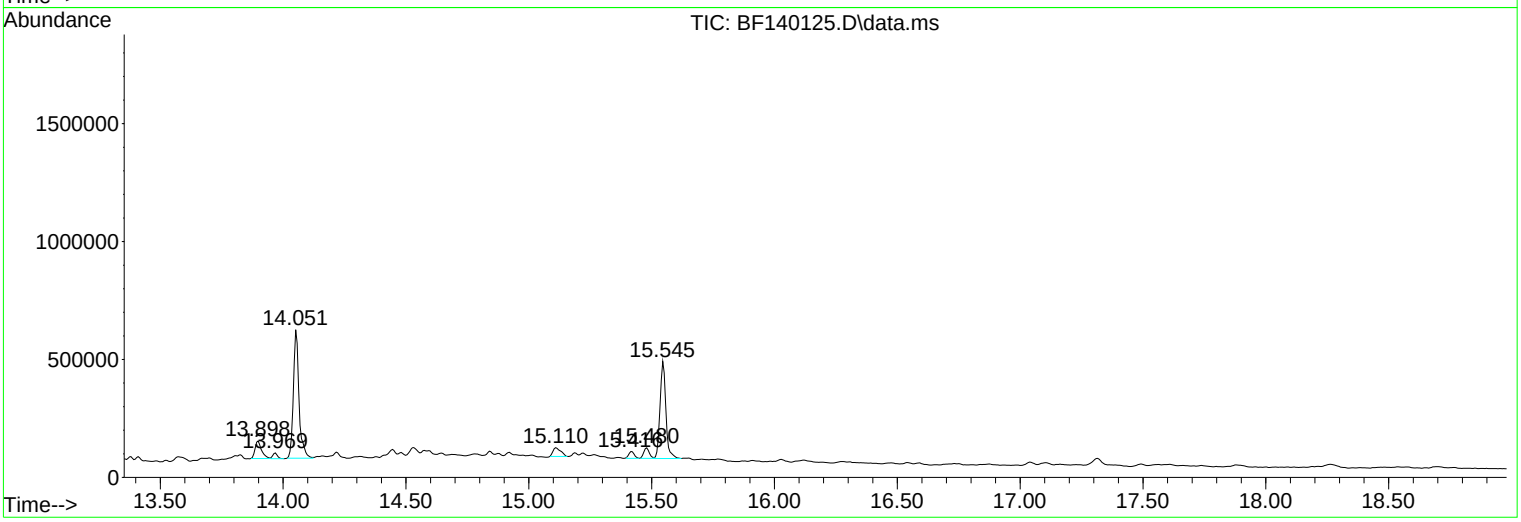
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

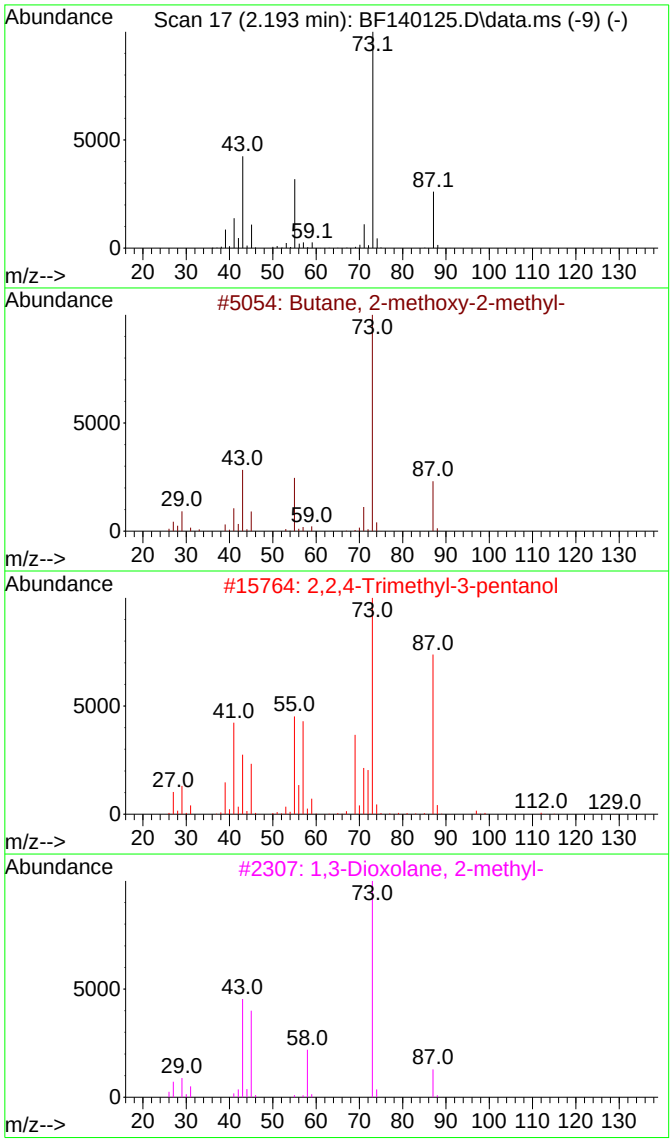
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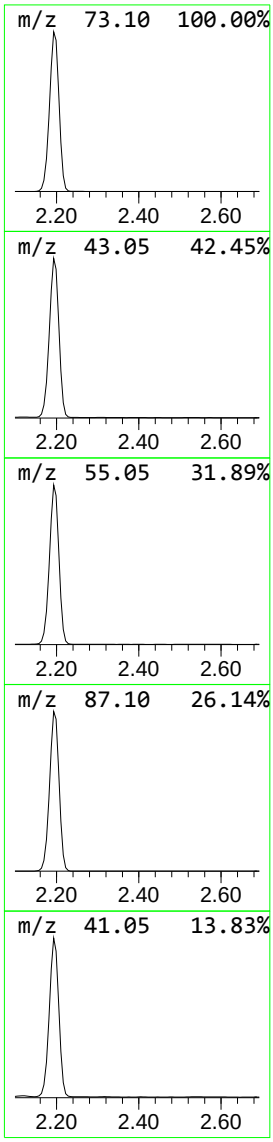
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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.193	46.61 ng	1758040	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
4	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

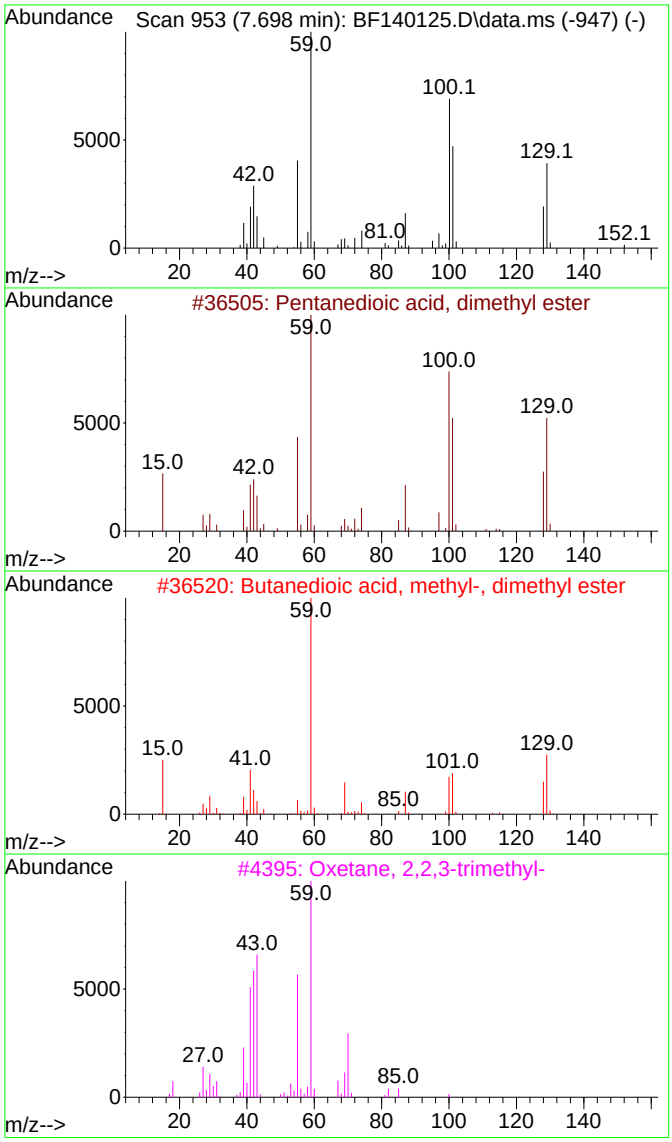
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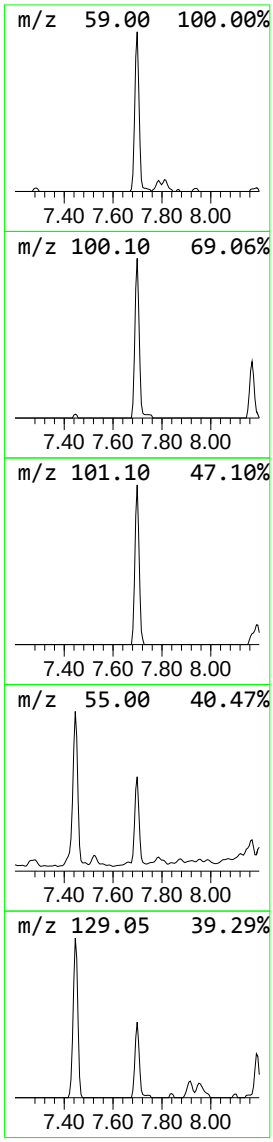
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Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.698	2.16 ng	117577	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	91
2	Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	45
3	Oxetane, 2,2,3-trimethyl-	100	C6H12O	023120-43-6	27
4	Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	23
5	Butyric acid, 3-bromo-, methyl e...	180	C5H9BrO2	021249-59-2	23





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

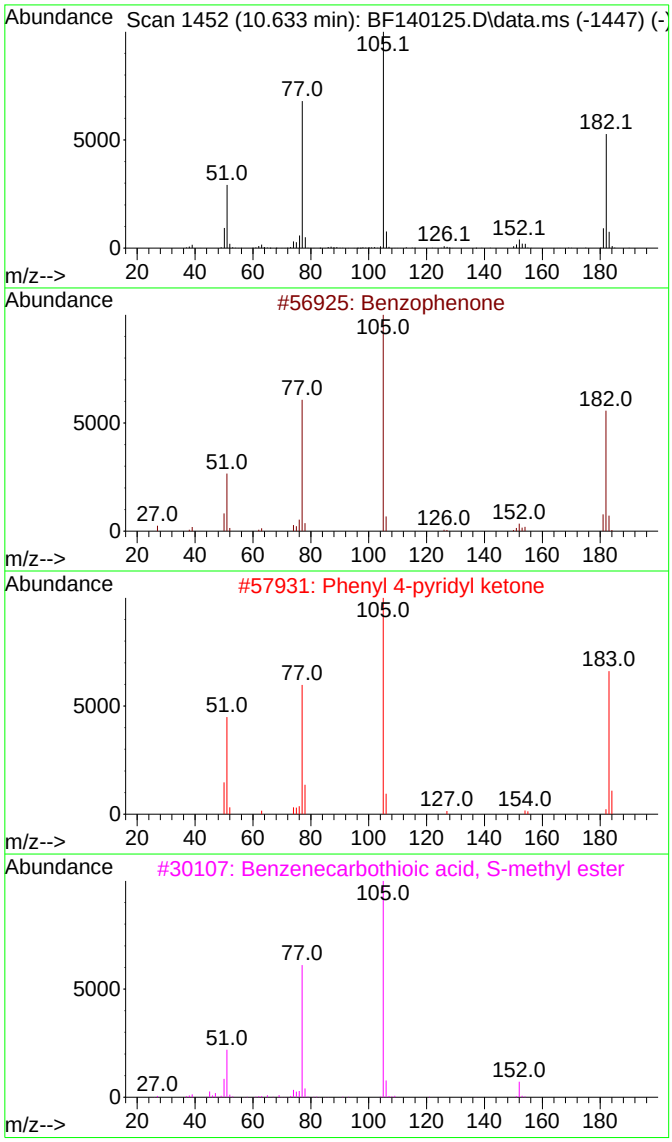
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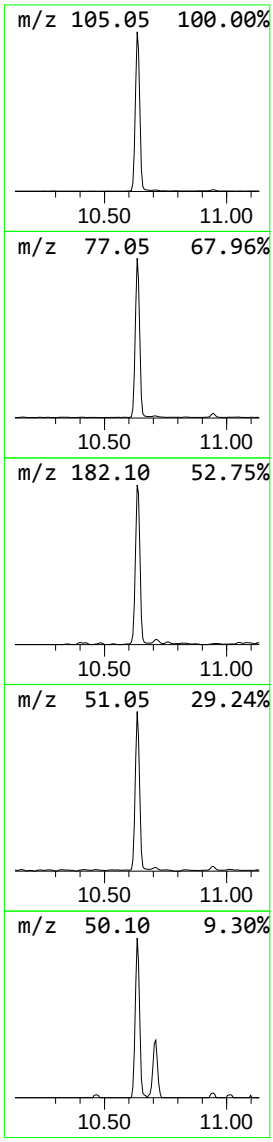
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Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.634	9.50 ng	501396	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	58
3	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
4	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47
5	Ethanone, 2,2,2-trifluoro-1-phenyl-	174	C8H5F3O	000434-45-7	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

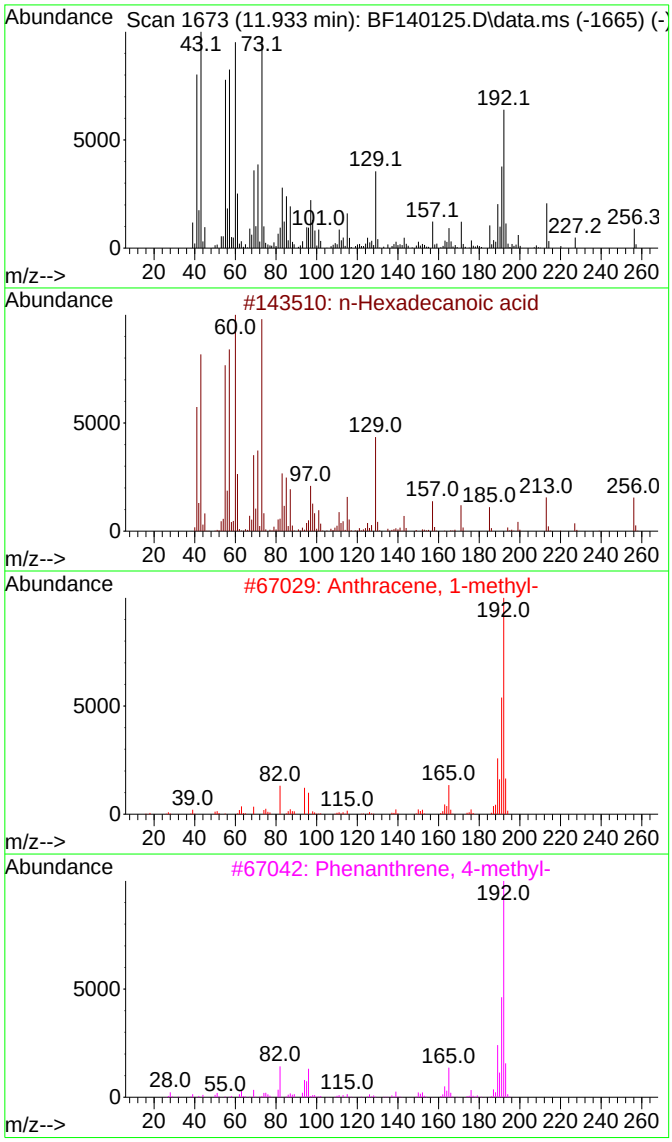
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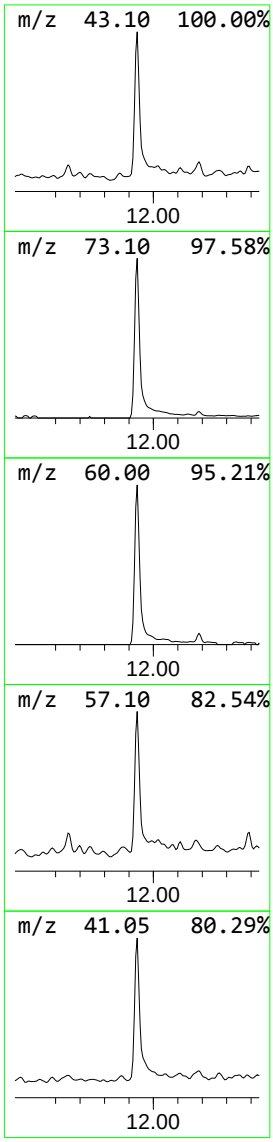
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Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	7.62 ng	375151	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	83
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	62





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

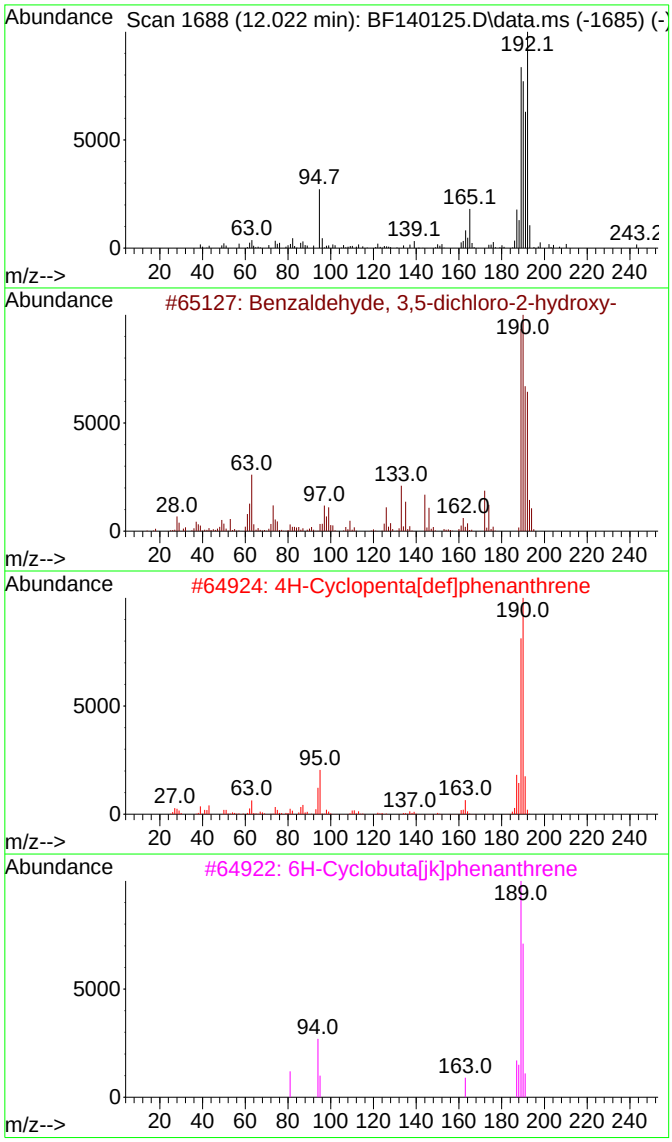
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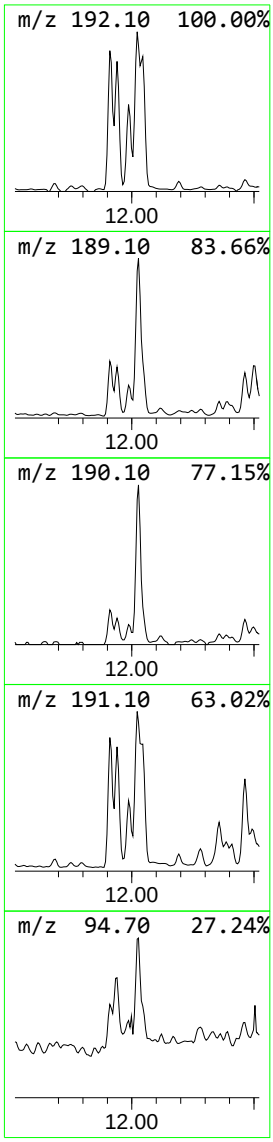
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzaldehyde, 3,5-dichloro-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.022	3.54 ng	174038	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	53
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	46
4	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	41
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

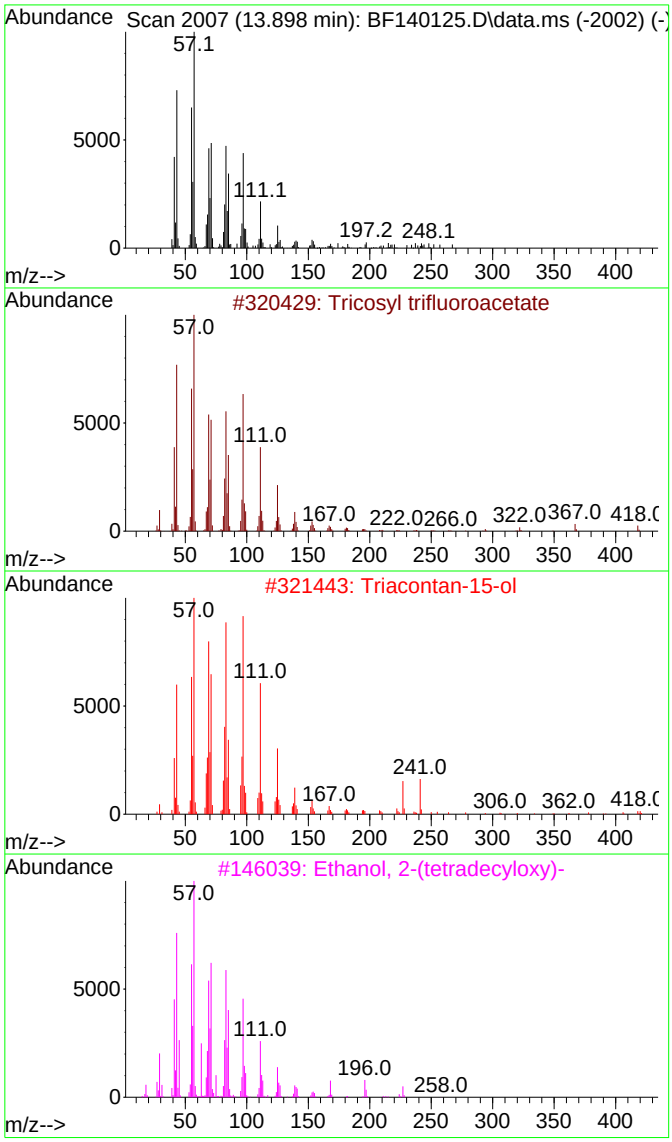
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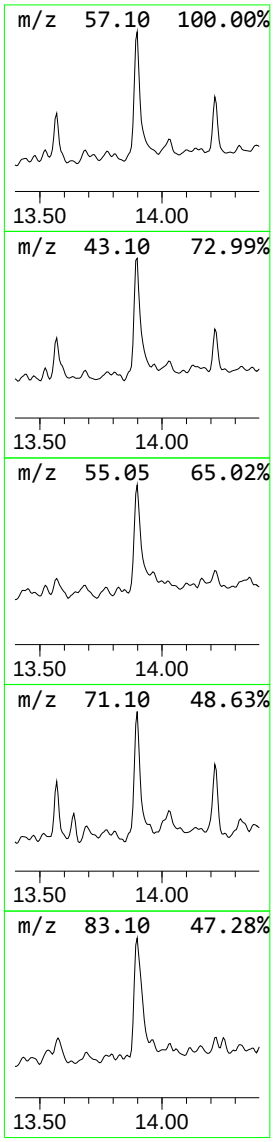
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Peak Number 6 Tricosyl trifluoroacetate Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.898	3.11 ng	135355	Chrysene-d12	14.051

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
2	Triacontan-15-ol	438	C30H62O	031849-26-0	91
3	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	91
4	Hexacosyl heptafluorobutyrate	578	C30H53F7O2	1000351-83-3	91
5	Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

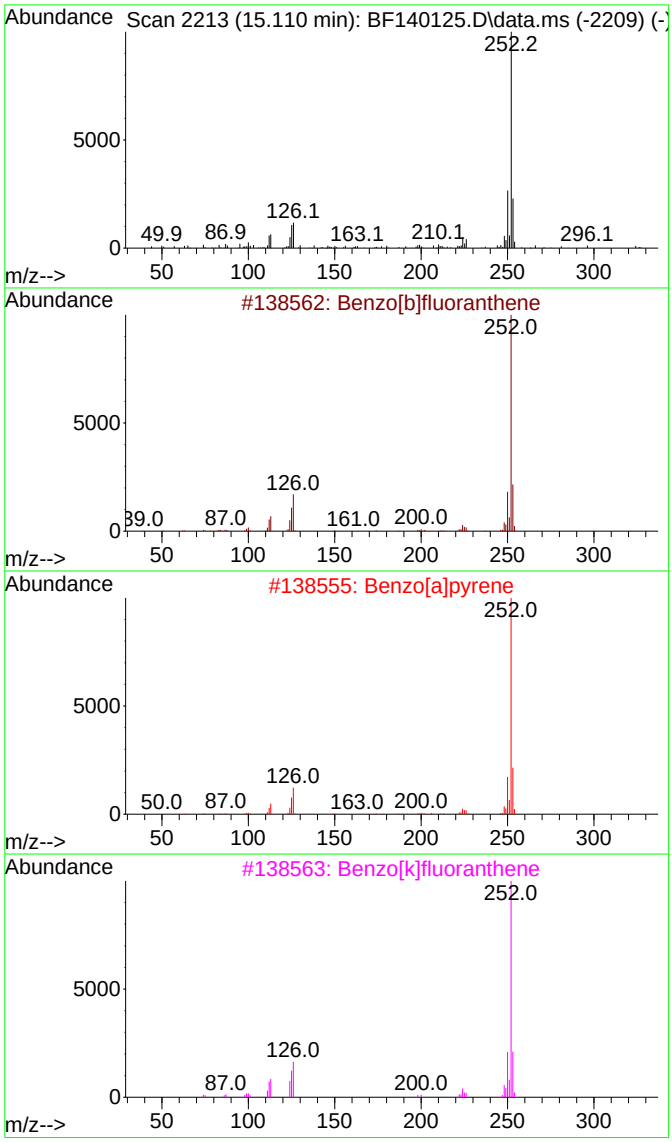
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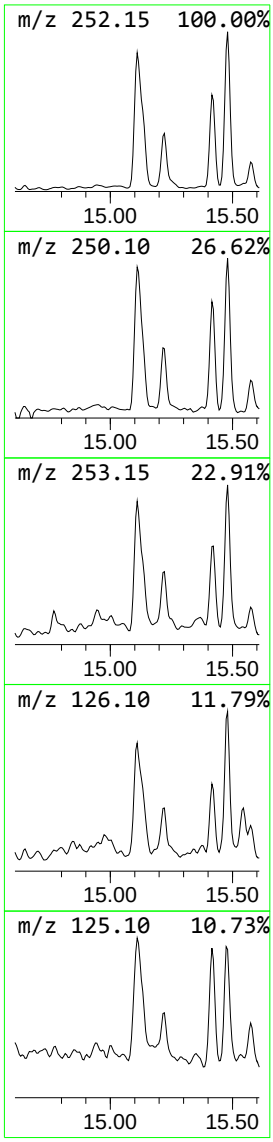
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Peak Number 7 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.110	2.43 ng	81467	Perylene-d12	15.545

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]fluoranthene	252	C20H12	000205-99-2	96
2	Benzo[a]pyrene	252	C20H12	000050-32-8	94
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benzo[e]pyrene	252	C20H12	000192-97-2	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.193	46.6	ng	1758040	1	6.887	754398	20.0
Pentanedioic ac...	7.698	2.2	ng	117577	2	8.169	1086750	20.0
Benzophenone	10.634	9.5	ng	501396	3	9.922	1056040	20.0
n-Hexadecanoic ...	11.933	7.6	ng	375151	4	11.410	984176	20.0
Benzaldehyde, 3...	12.022	3.5	ng	174038	4	11.410	984176	20.0
Tricosyl triflu...	13.898	3.1	ng	135355	5	14.051	870255	20.0
Benzo[e]pyrene	15.110	2.4	ng	81467	6	15.545	670432	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Time: Oct 29 14:53:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

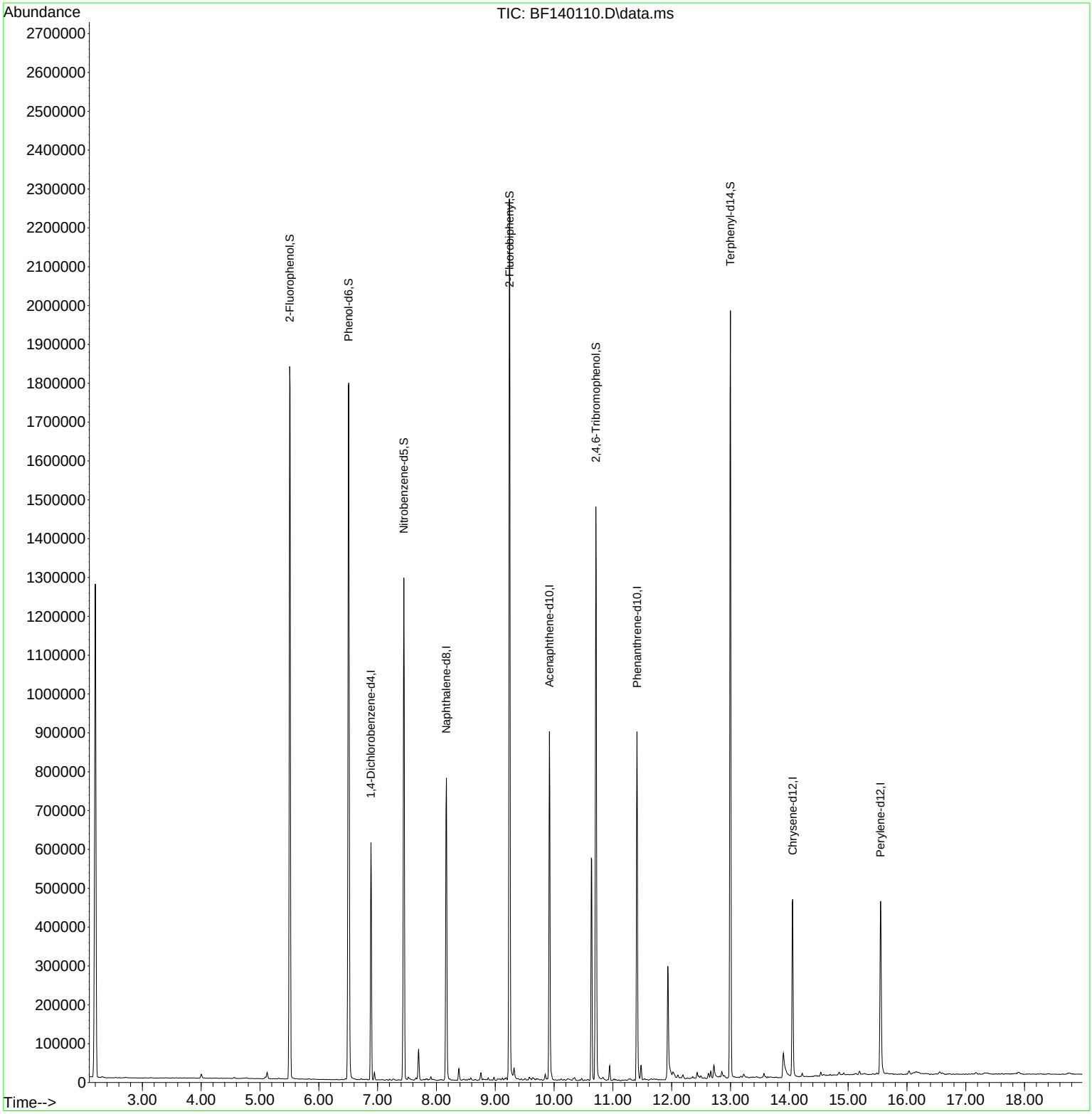
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	120686	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	473213	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	267166	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	461039	20.000	ng	0.00
76) Chrysene-d12	14.057	240	224689	20.000	ng	0.00
86) Perylene-d12	15.551	264	271519	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	693174	89.916	ng	0.00
7) Phenol-d6	6.504	99	886850	88.822	ng	0.00
23) Nitrobenzene-d5	7.446	82	564898	66.162	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	255776	102.352	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1068584	66.103	ng	0.00
79) Terphenyl-d14	12.998	244	977691	70.904	ng	0.00
Target Compounds						Qvalue

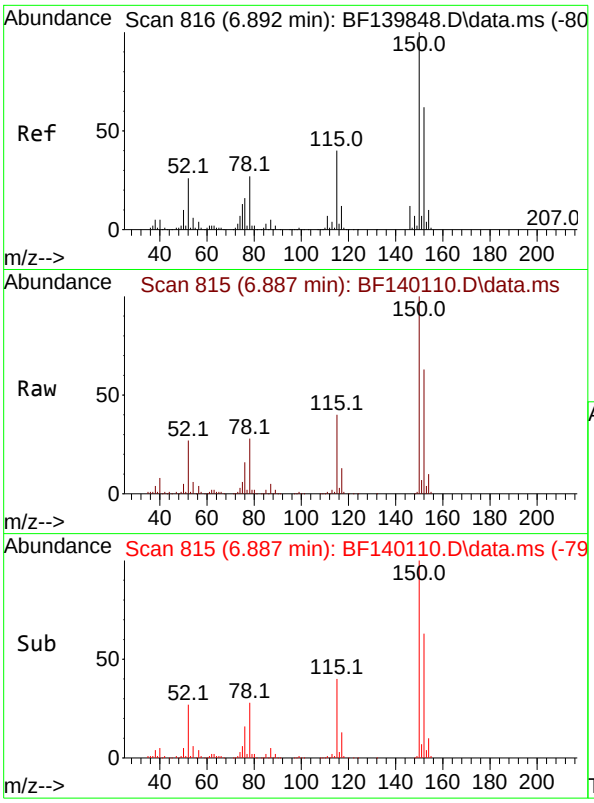
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Time: Oct 29 14:53:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



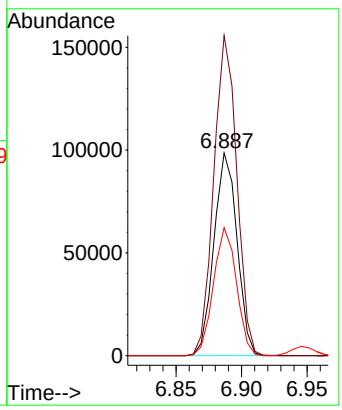


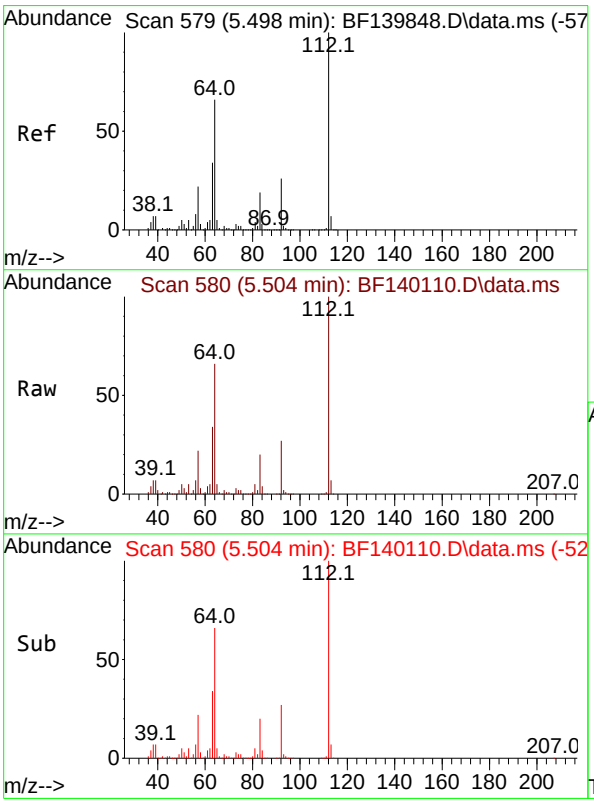
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:152 Resp: 120686

Ion	Ratio	Lower	Upper
152	100		
150	157.9	130.2	195.2
115	63.1	51.4	77.2

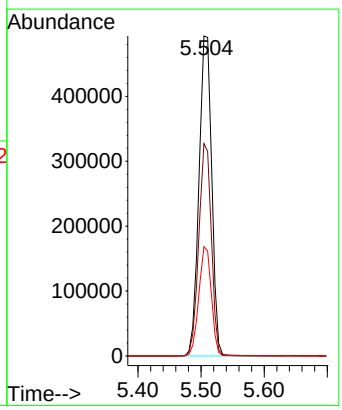


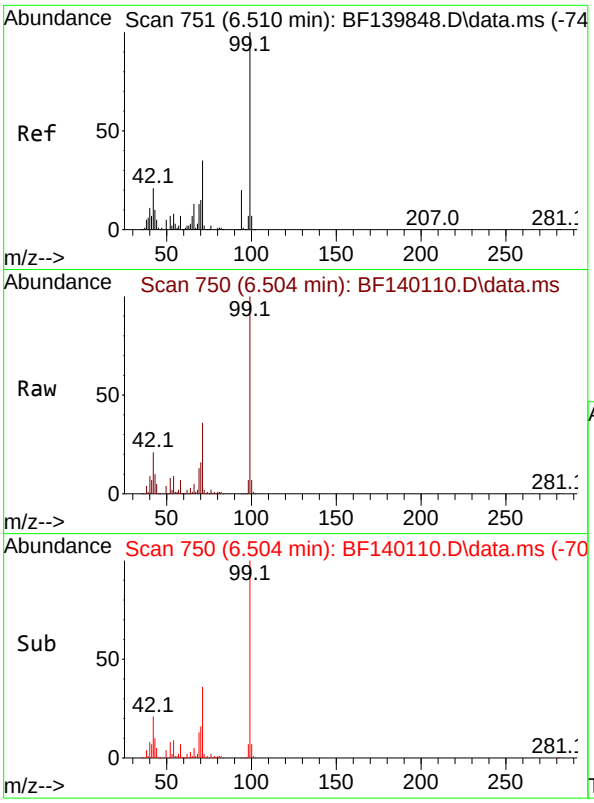


#5
2-Fluorophenol
Concen: 89.916 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:112 Resp: 693174

Ion	Ratio	Lower	Upper
112	100		
64	66.4	53.0	79.6
63	34.1	27.0	40.4



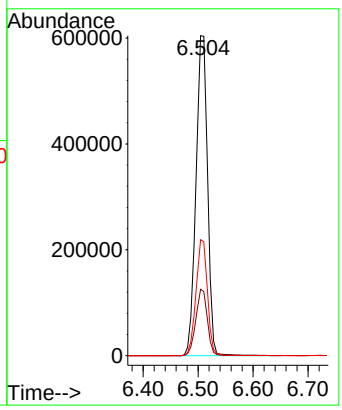


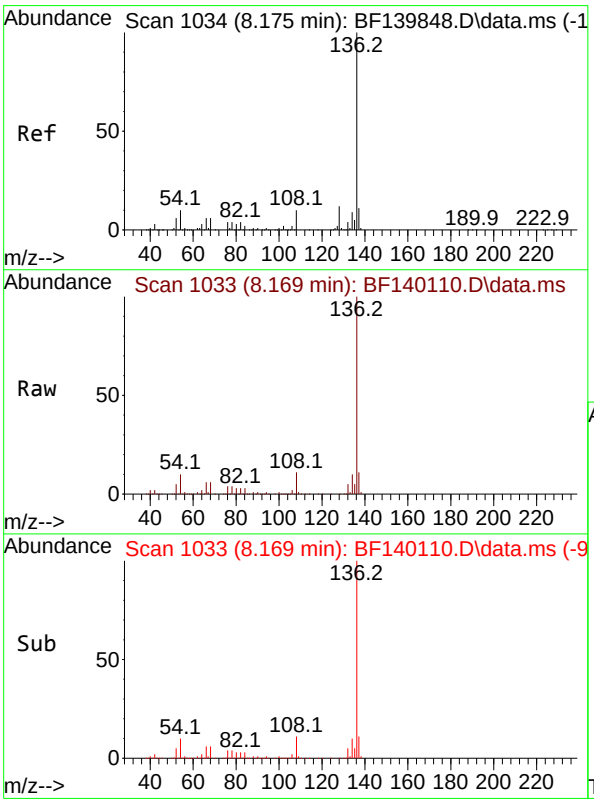
#7
Phenol-d6
Concen: 88.822 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion: 99 Resp: 886850

Ion	Ratio	Lower	Upper
99	100		
42	20.8	16.7	25.1
71	36.2	27.7	41.5

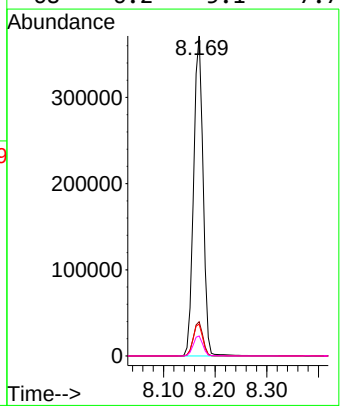


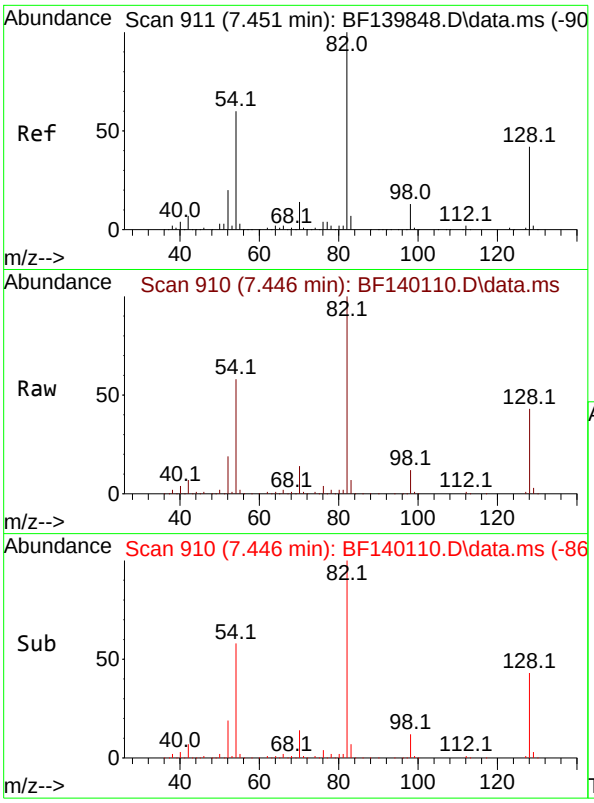


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:136 Resp: 473213

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	9.9	8.4	12.6
68	6.2	5.1	7.7



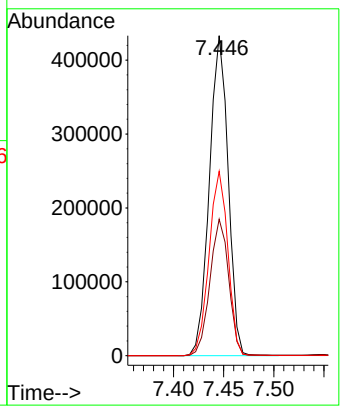


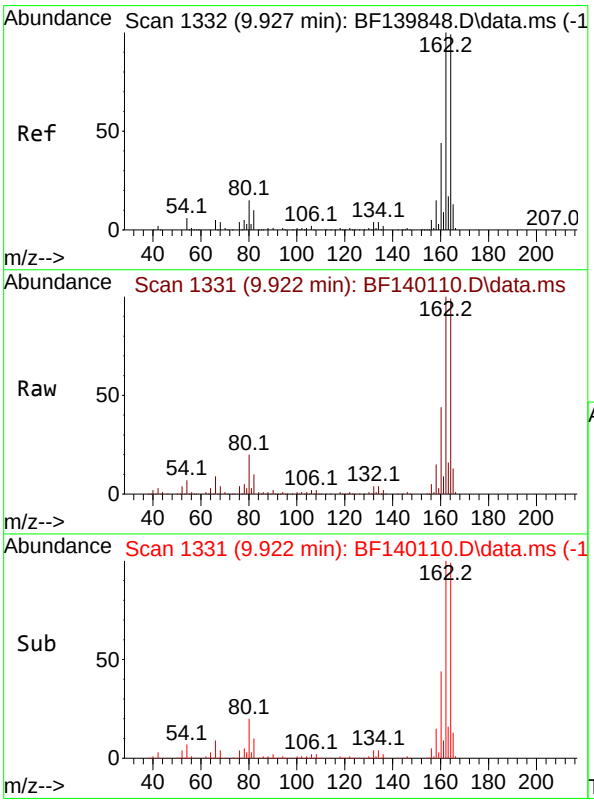
#23
Nitrobenzene-d5
Concen: 66.162 ng
RT: 7.446 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion: 82 Resp: 564898

Ion	Ratio	Lower	Upper
82	100		
128	42.7	33.4	50.0
54	57.6	47.8	71.8

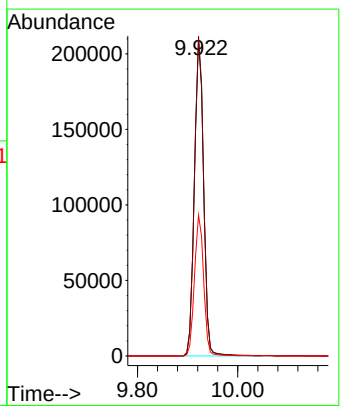


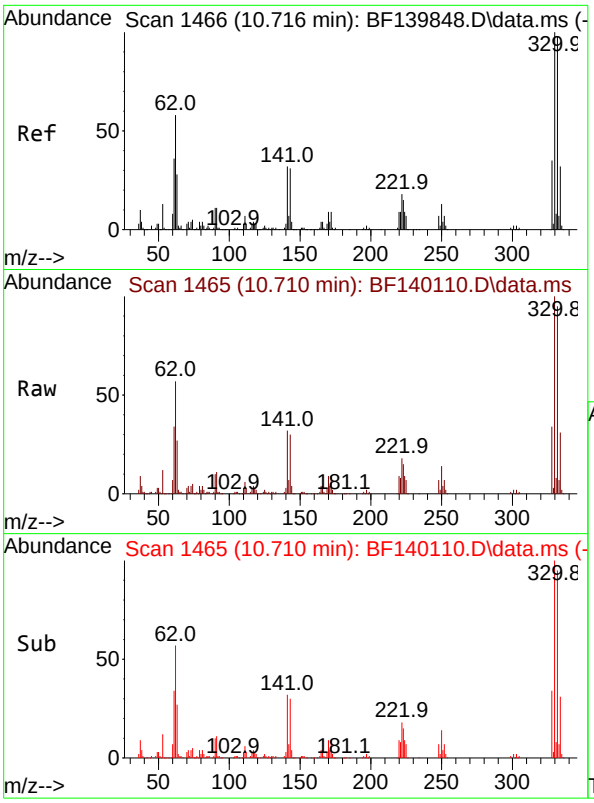


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:164 Resp: 267166

Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.0	121.4
160	44.5	35.4	53.0



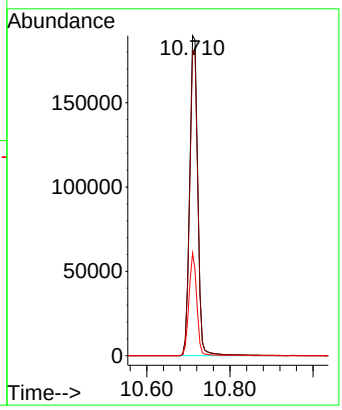


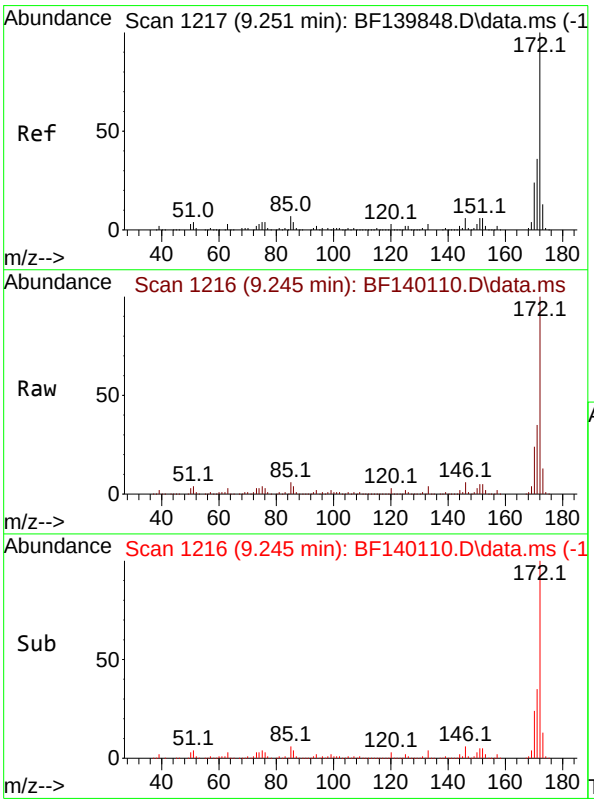
#42
2,4,6-Tribromophenol
Concen: 102.352 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:330 Resp: 255776

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.1	117.1
141	30.8	26.6	39.8

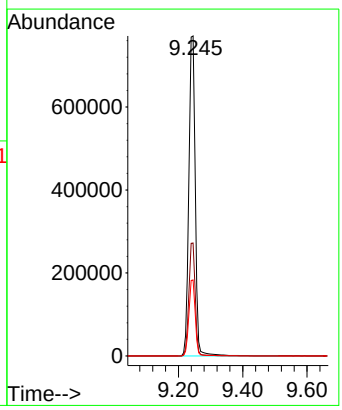


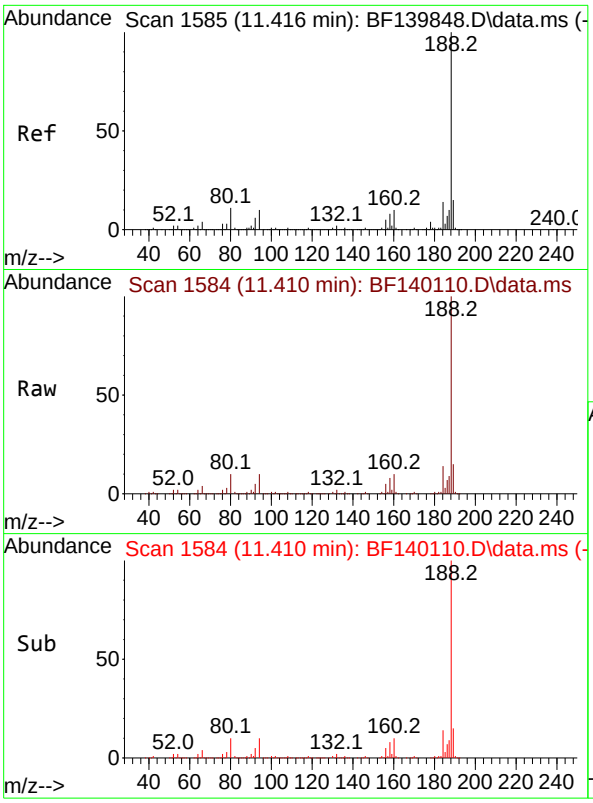


#45
2-Fluorobiphenyl
Concen: 66.103 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:172 Resp: 1068584

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.7	19.1	28.7



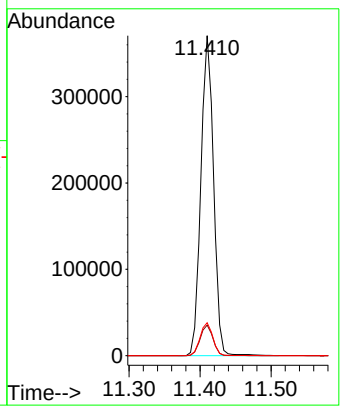


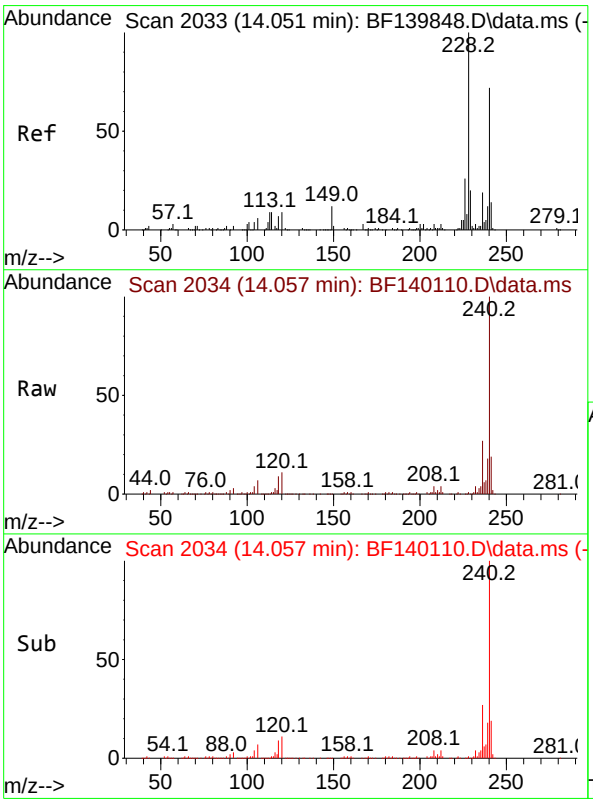
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:188 Resp: 461039

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.3	9.0	13.4

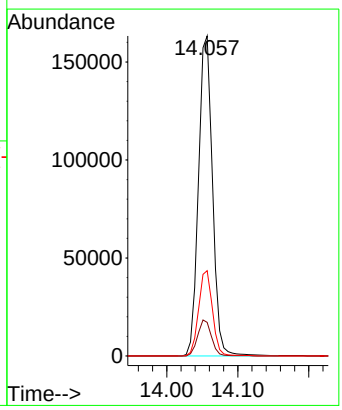


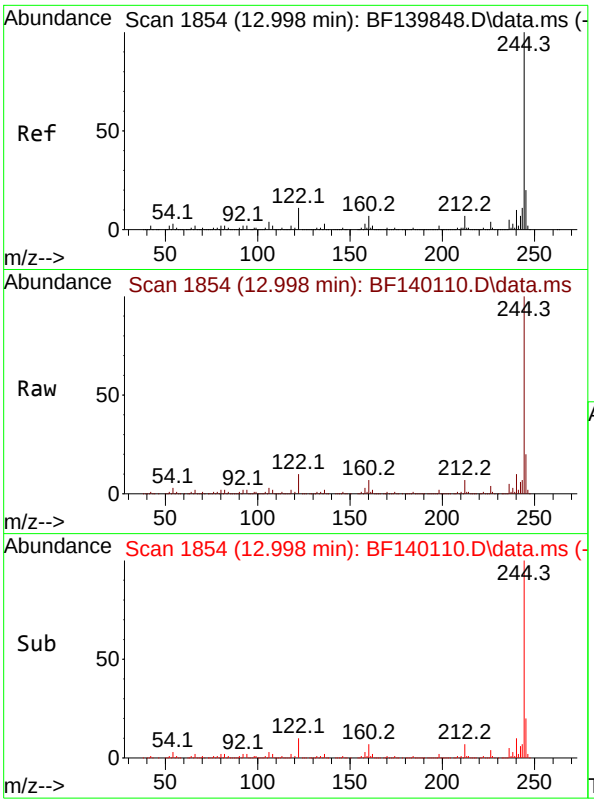


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:240 Resp: 224689

Ion	Ratio	Lower	Upper
240	100		
120	10.5	9.4	14.2
236	26.7	20.9	31.3



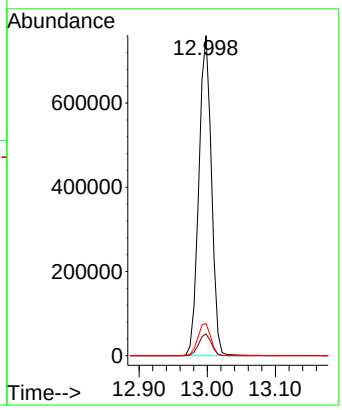


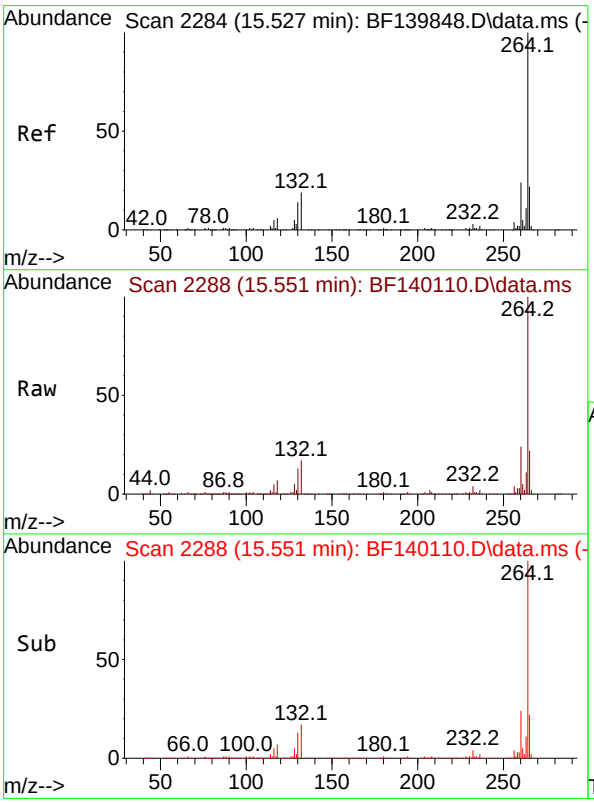
#79
Terphenyl-d14
Concen: 70.904 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:244 Resp: 977691

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	10.1	8.6	13.0

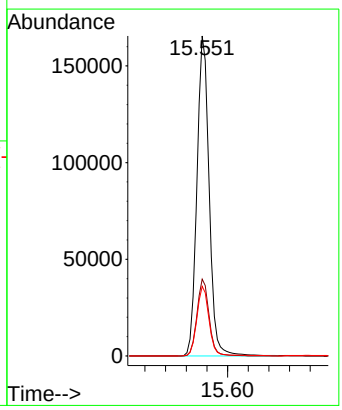




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2288
Delta R.T. 0.024 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:264 Resp: 271519

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	21.8	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140110.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.199	10	18	26	rVB	1269523	2020418	65.93%	8.537%
2	5.504	574	580	586	rBV	1833415	2533761	82.68%	10.706%
3	6.510	744	751	774	rVB	1793140	2685380	87.63%	11.346%
4	6.887	810	815	820	rBV	610280	741977	24.21%	3.135%
5	7.446	902	910	915	rBV	1292894	1691908	55.21%	7.149%
6	7.698	947	953	960	rVB2	79814	104509	3.41%	0.442%
7	8.169	1024	1033	1041	rBV	778342	1017598	33.21%	4.300%
8	8.381	1065	1069	1077	rBV	29395	39402	1.29%	0.166%
9	9.239	1209	1215	1225	rBV	2267904	3064468	100.00%	12.948%
10	9.322	1225	1229	1238	rVB	27662	46175	1.51%	0.195%
11	9.922	1326	1331	1336	rBV	893536	1120838	36.58%	4.736%
12	10.634	1447	1452	1459	rBV	571886	749452	24.46%	3.167%
13	10.710	1459	1465	1480	rVV	1474510	1933513	63.09%	8.170%
14	10.945	1501	1505	1510	rVB	37265	46017	1.50%	0.194%
15	11.410	1579	1584	1592	rBV	897493	1143972	37.33%	4.834%
16	11.481	1592	1596	1600	rVB3	37179	50038	1.63%	0.211%
17	11.933	1665	1673	1685	rBV	292080	472834	15.43%	1.998%
18	12.022	1685	1688	1698	rVB2	15010	37249	1.22%	0.157%
19	12.716	1802	1806	1820	rBV	32920	63656	2.08%	0.269%
20	12.998	1848	1854	1859	rBV	1974499	2551951	83.28%	10.783%
21	13.898	2001	2007	2027	rBV	63097	189551	6.19%	0.801%
22	14.057	2028	2034	2043	rVB	454752	638333	20.83%	2.697%
23	15.551	2282	2288	2301	rBV	444863	724454	23.64%	3.061%

Sum of corrected areas: 23667454

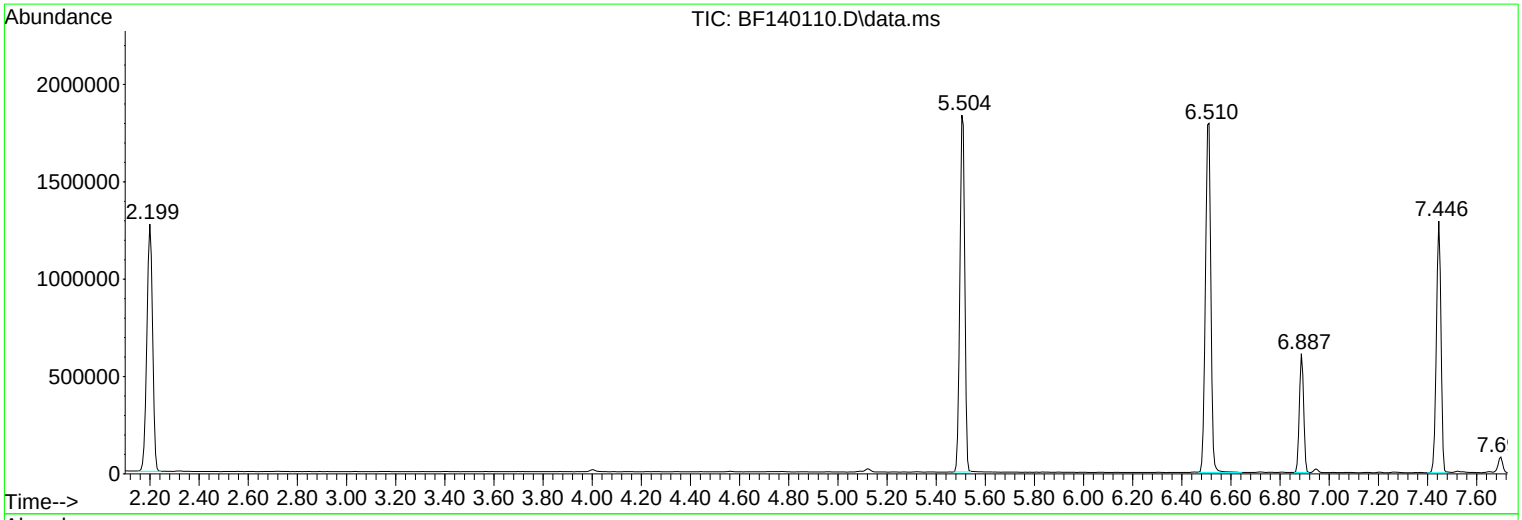
Sample Results: **BF140110.D**

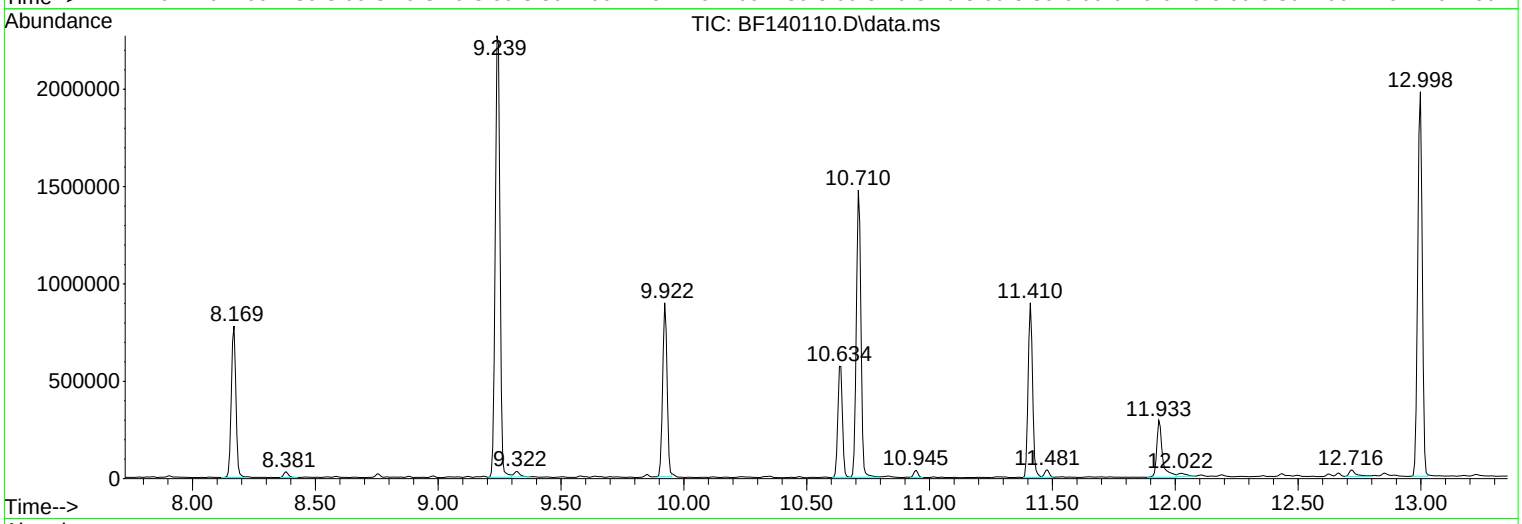
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

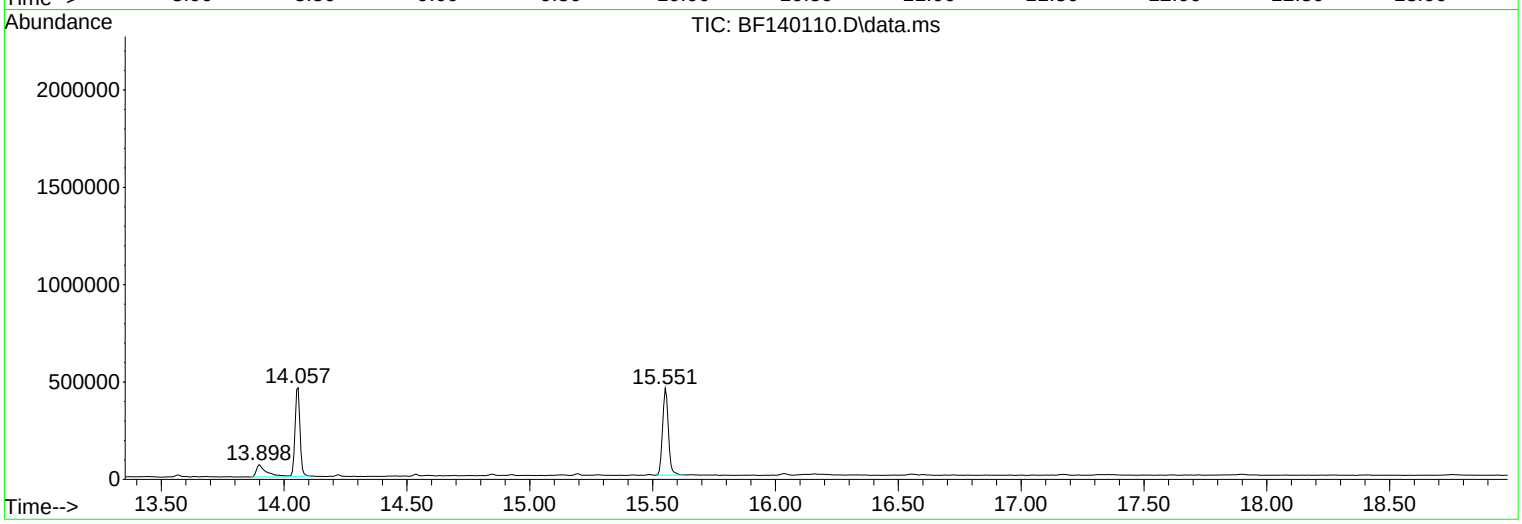
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

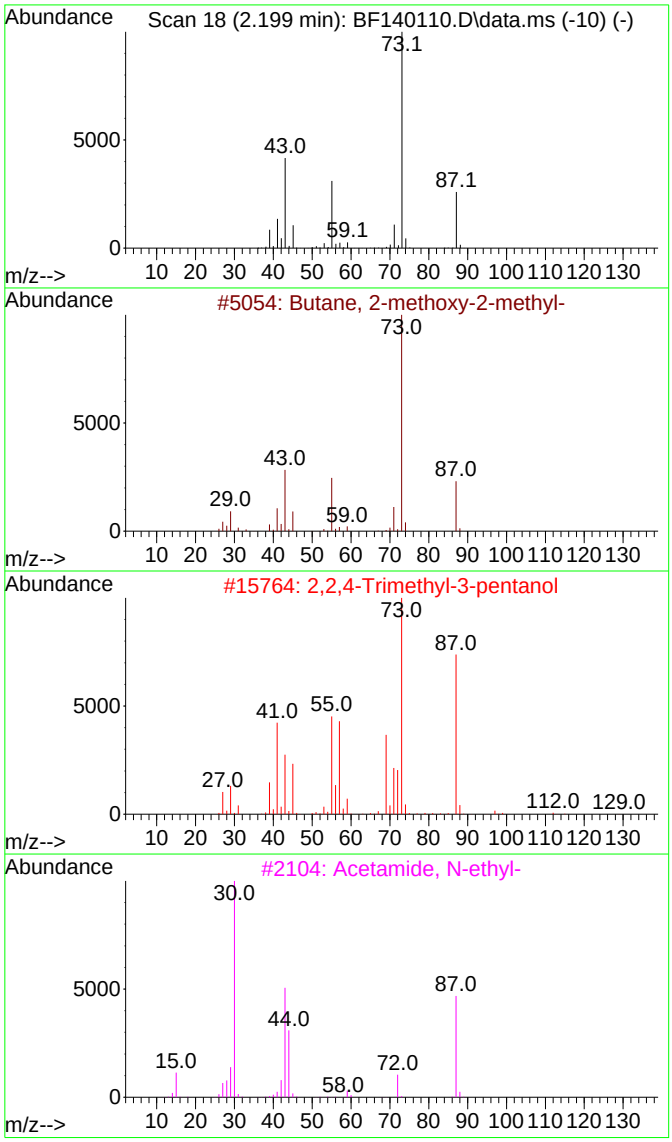
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

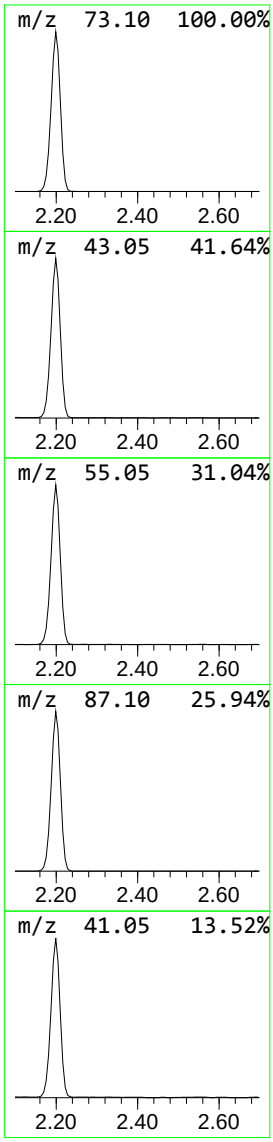
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.199	54.46 ng	2020420	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

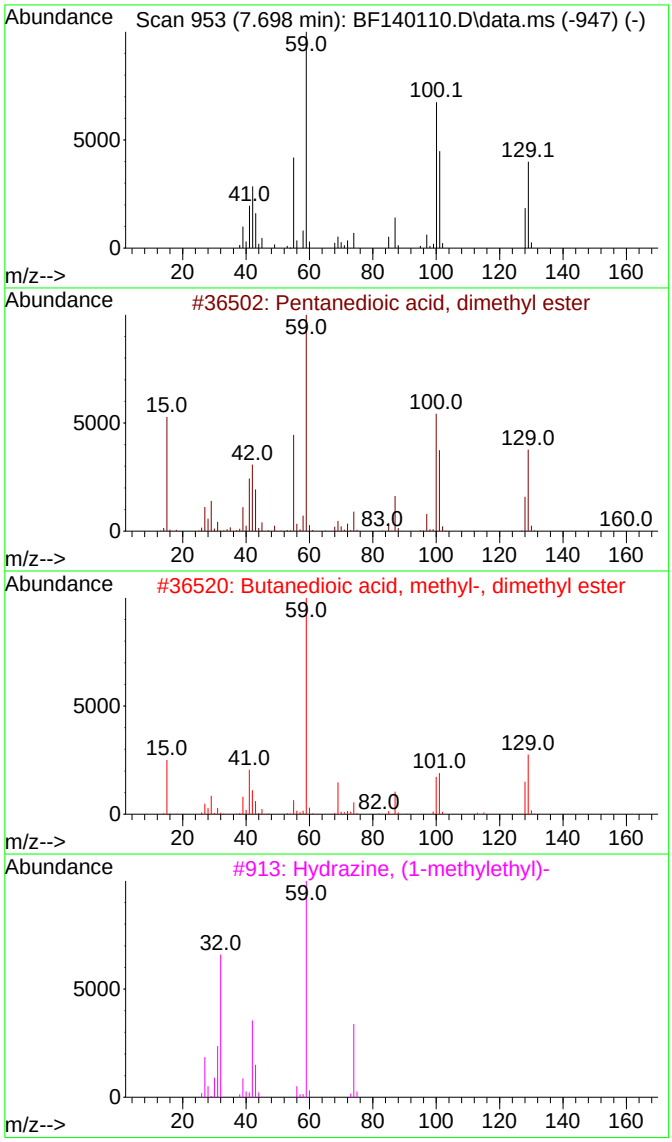
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TIC Integration Parameters: LSCINT.P

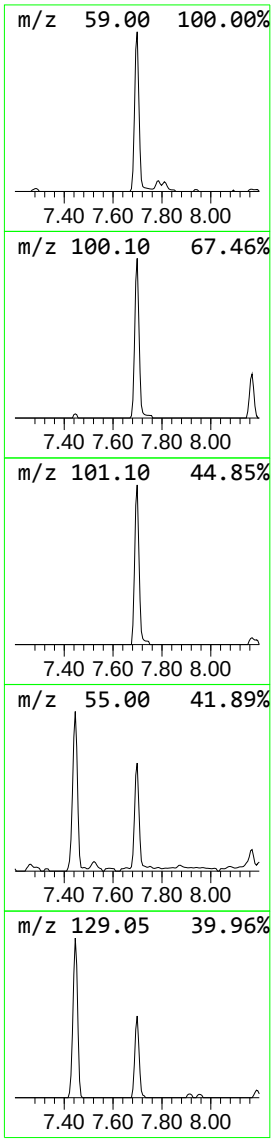
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Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.698	2.05 ng	104509	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	83
2	Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	53
3	Hydrazine, (1-methylethyl)-	74	C3H10N2	002257-52-5	30
4	Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	27
5	Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

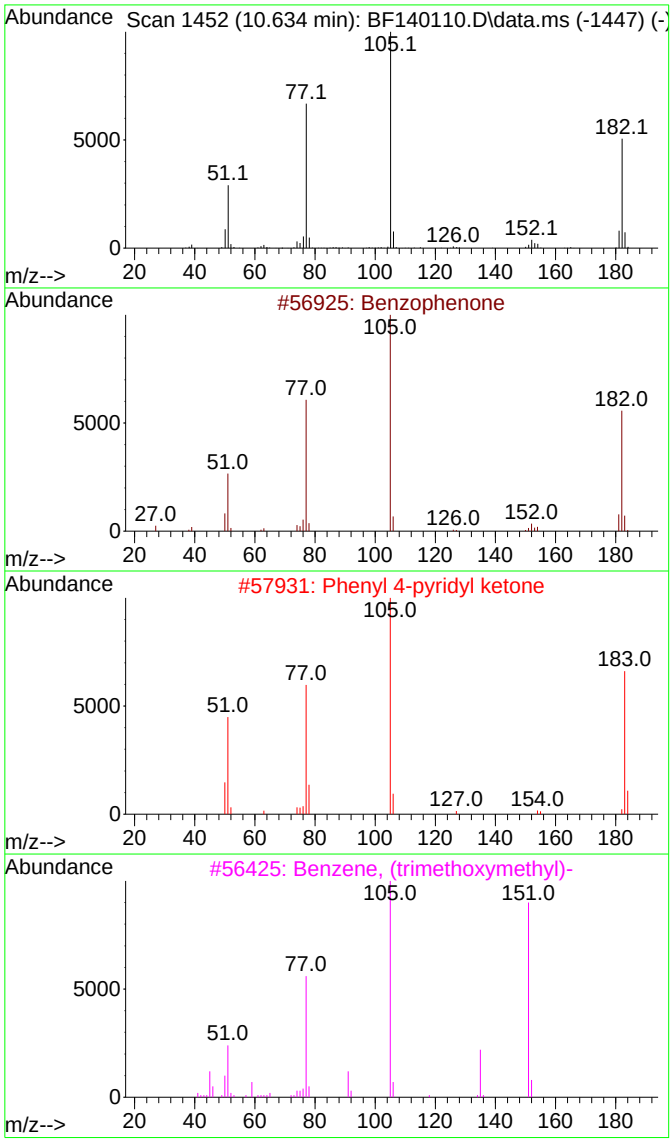
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TIC Integration Parameters: LSCINT.P

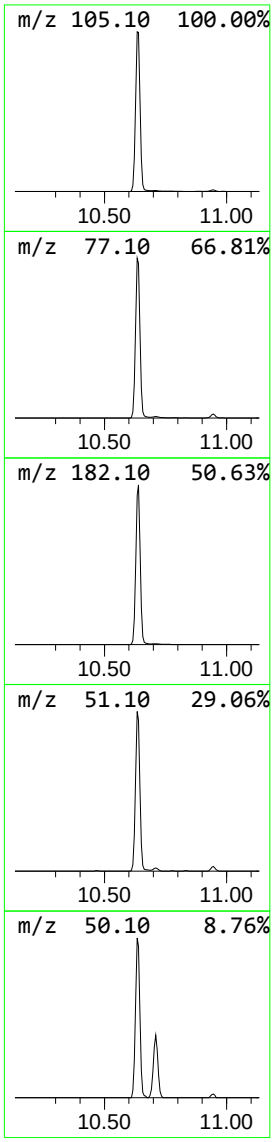
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Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.634	13.37 ng	749452	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	50
3	Benzene, (trimethoxymethyl)-	182	C10H14O3	000707-07-3	47
4	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
5	Benzoic acid, pentafluorophenyl ...	288	C13H5F5O2	1000360-67-9	47





```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On    : 29 Oct 2024  14:16
Operator  : RC/JU
Sample    : P4578-05
Misc      :
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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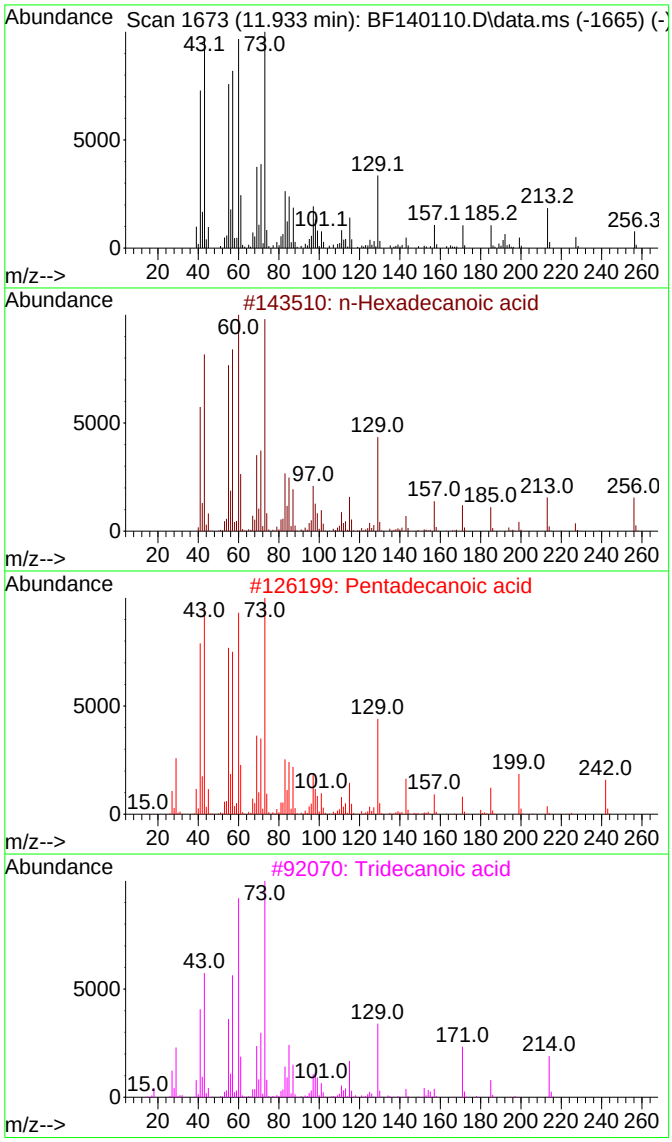
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

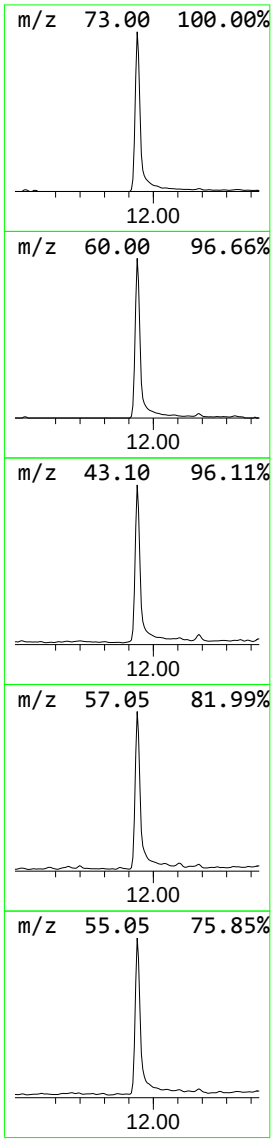
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Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.934	8.27 ng	472834	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Tridecanoic acid	214	C13H26O2	000638-53-9	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

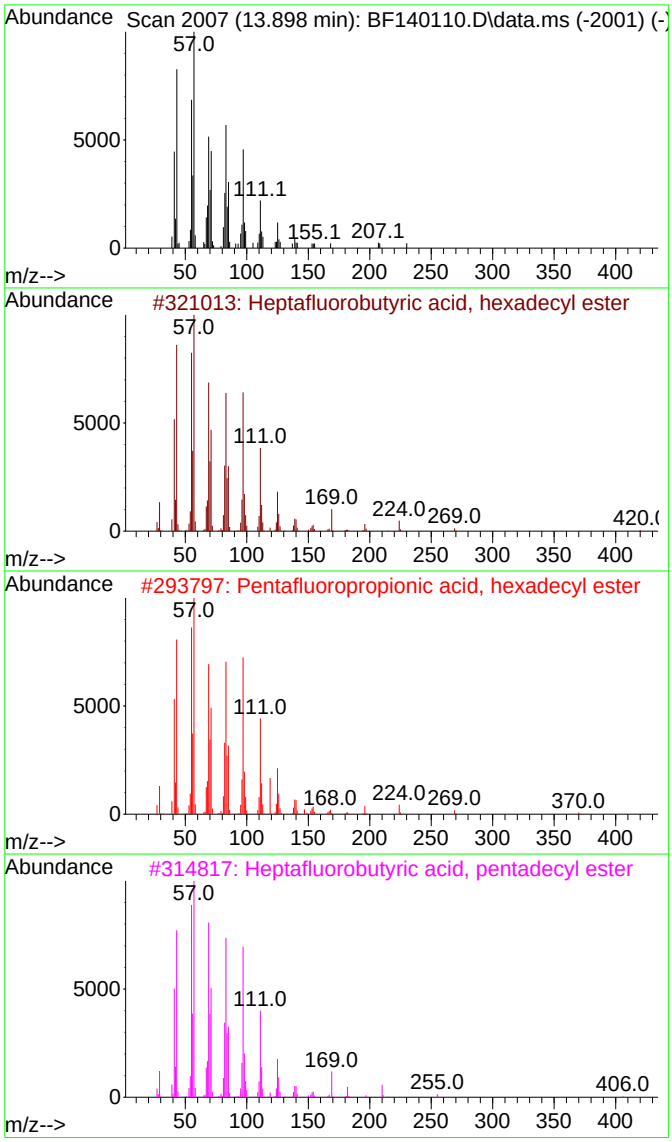
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

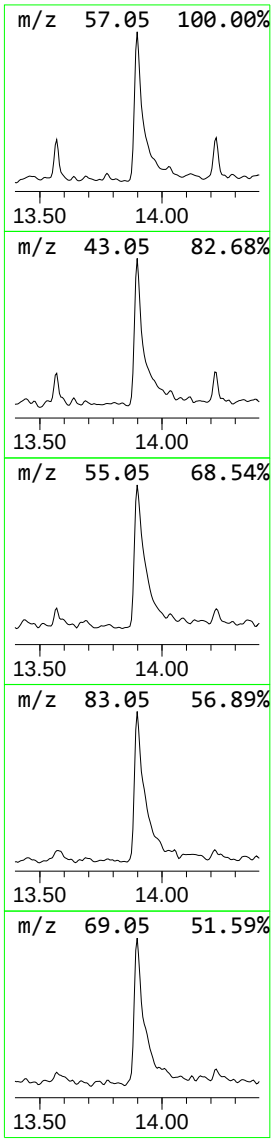
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Peak Number 5 Heptafluorobutyric acid, he... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.898	5.94 ng	189551	Chrysene-d12	14.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	91
2	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	91
3	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	91
4	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	91
5	Heneicosyl heptafluorobutyrate	508	C25H43F7O2	1000351-83-8	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.199	54.5	ng	2020420	1	6.887	741977	20.0
Pentanedioic ac...	7.698	2.0	ng	104509	2	8.169	1017600	20.0
Benzophenone	10.634	13.4	ng	749452	3	9.922	1120840	20.0
n-Hexadecanoic ...	11.934	8.3	ng	472834	4	11.410	1143970	20.0
Heptafluorobuty...	13.898	5.9	ng	189551	5	14.057	638333	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 29 15:12:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

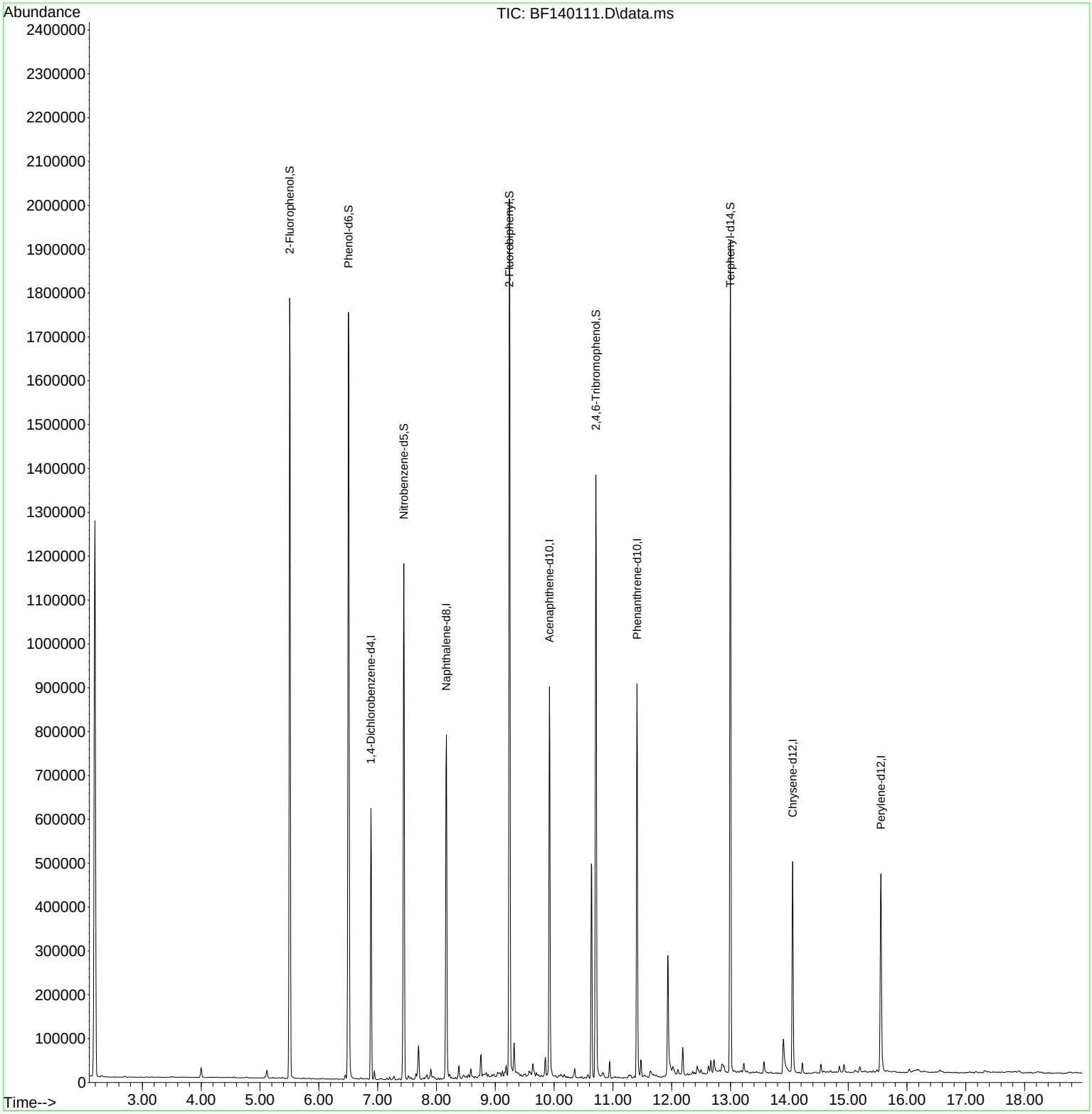
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	122139	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	478188	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	267029	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	461723	20.000	ng	0.00
76) Chrysene-d12	14.057	240	225154	20.000	ng	0.00
86) Perylene-d12	15.557	264	268509	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	647003	82.928	ng	0.00
7) Phenol-d6	6.504	99	834485	82.583	ng	0.00
23) Nitrobenzene-d5	7.445	82	517971	60.035	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	234385	93.840	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	938225	58.069	ng	-0.01
79) Terphenyl-d14	12.998	244	938369	67.911	ng	0.00
Target Compounds						Qvalue

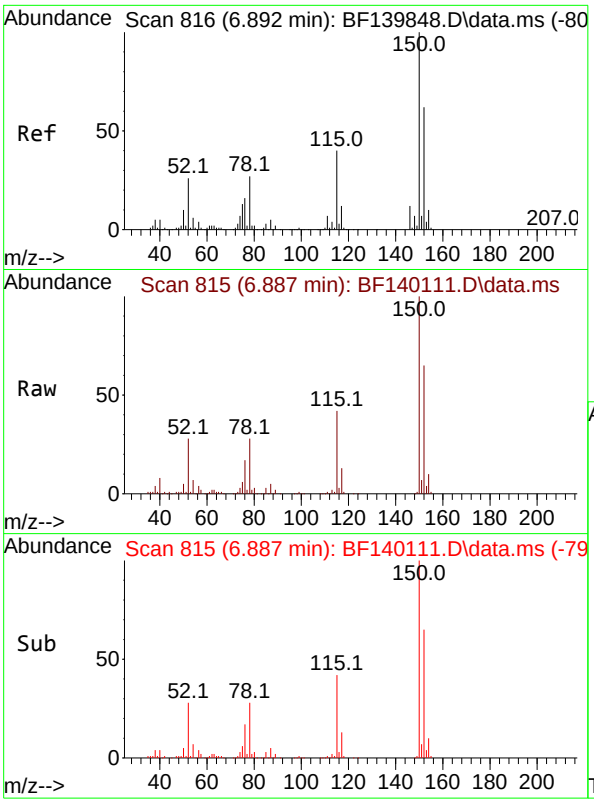
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 29 15:12:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



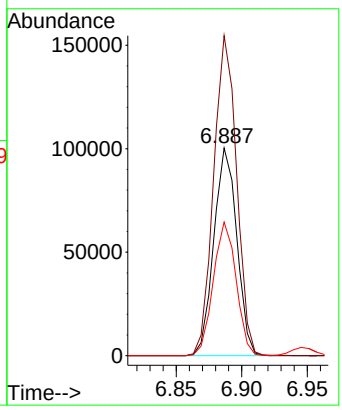


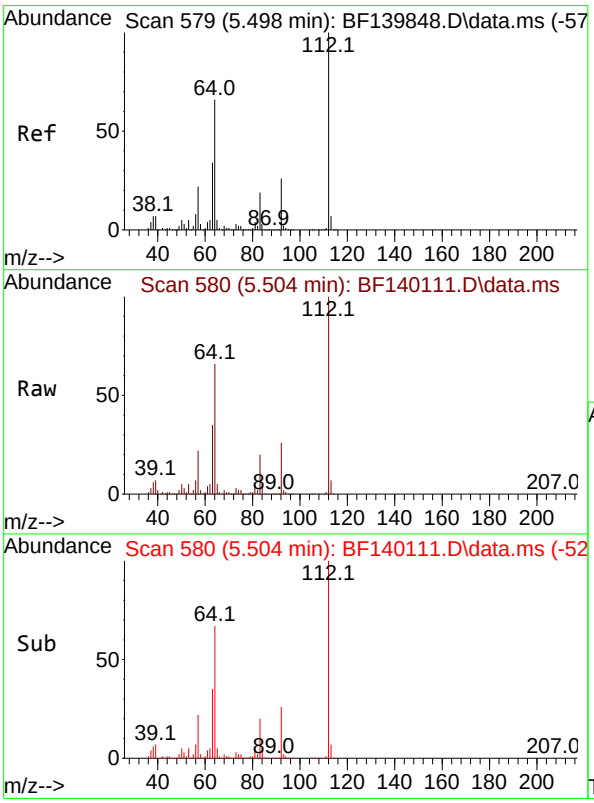
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:152 Resp: 122139

Ion	Ratio	Lower	Upper
152	100		
150	154.1	130.2	195.2
115	64.4	51.4	77.2

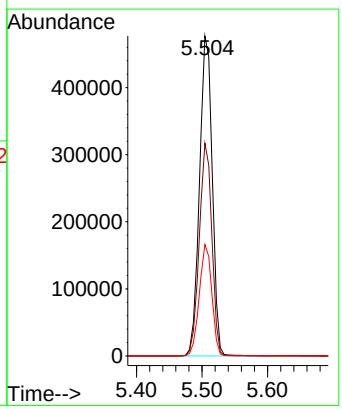


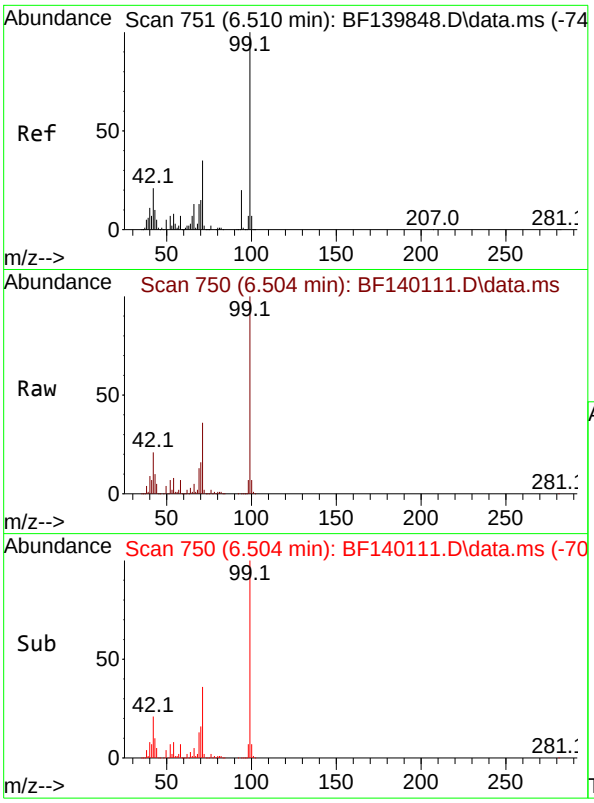


#5
2-Fluorophenol
Concen: 82.928 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:112 Resp: 647003

Ion	Ratio	Lower	Upper
112	100		
64	66.5	53.0	79.6
63	34.8	27.0	40.4



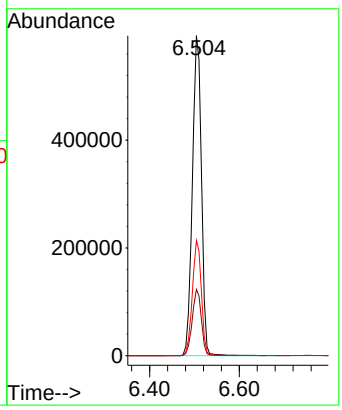


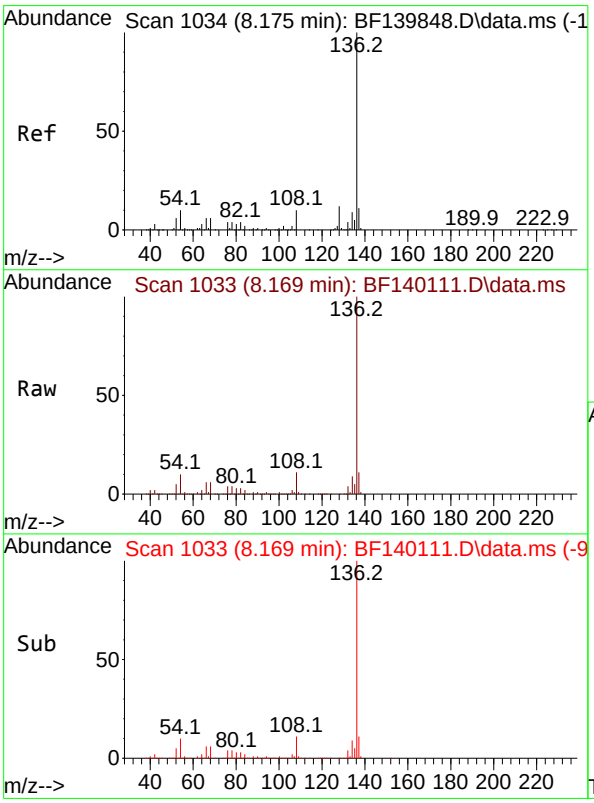
#7
Phenol-d6
Concen: 82.583 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 99 Resp: 834485

Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.7	25.1
71	36.0	27.7	41.5

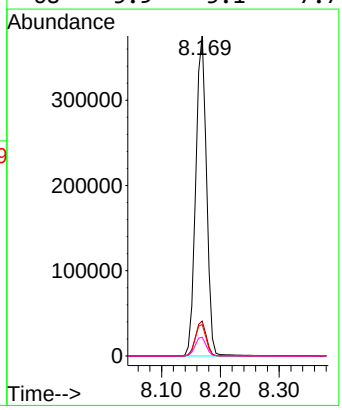


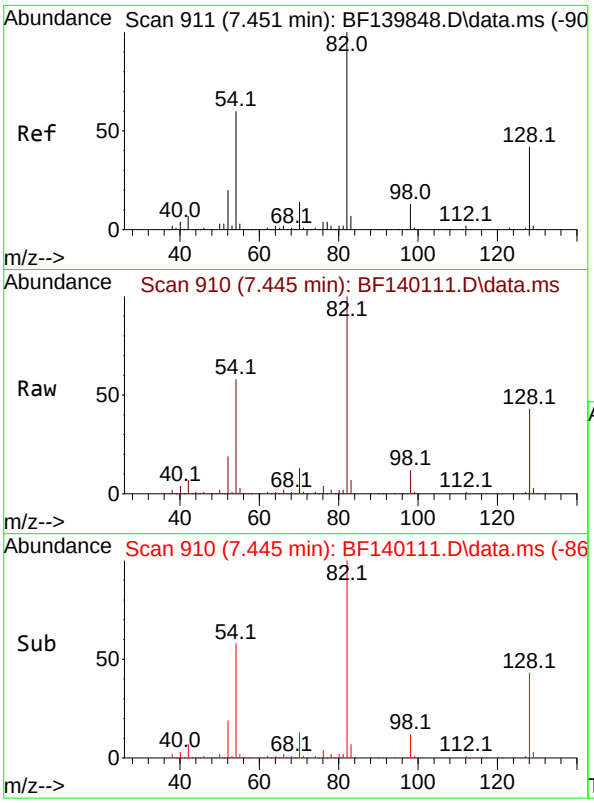


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:136 Resp: 478188

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.8	8.4	12.6
68	5.9	5.1	7.7



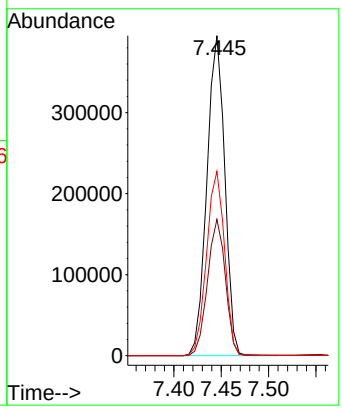


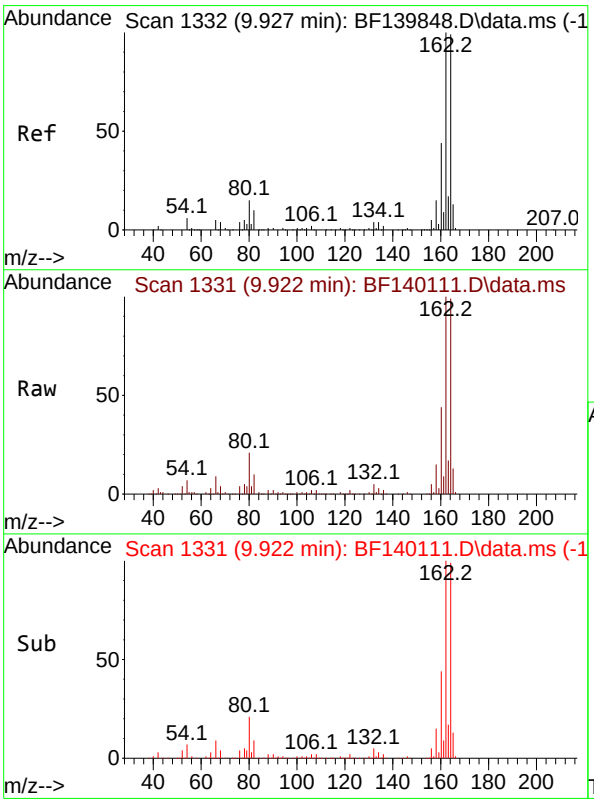
#23
Nitrobenzene-d5
Concen: 60.035 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 82 Resp: 517971

Ion	Ratio	Lower	Upper
82	100		
128	42.6	33.4	50.0
54	57.6	47.8	71.8

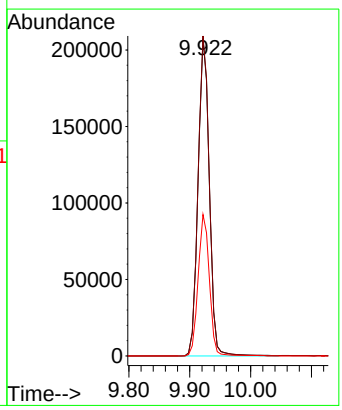


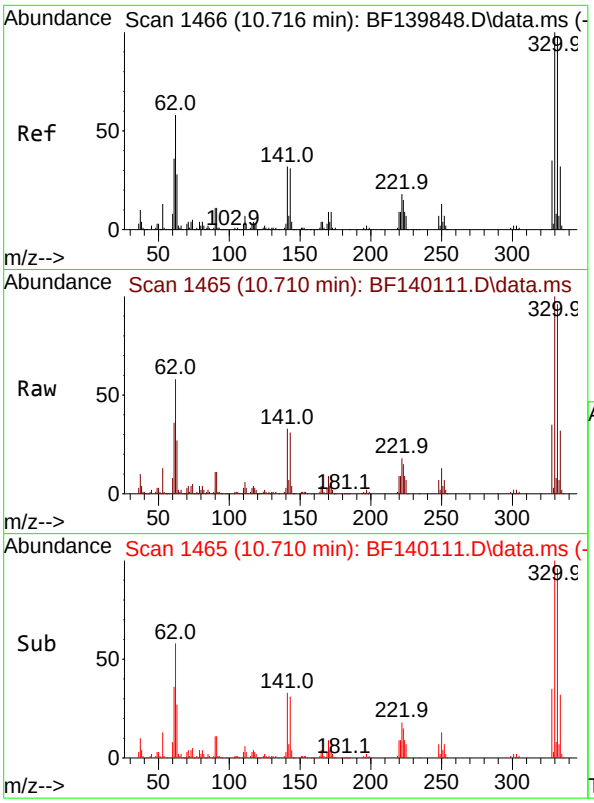


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:164 Resp: 267029

Ion	Ratio	Lower	Upper
164	100		
162	100.8	81.0	121.4
160	44.6	35.4	53.0



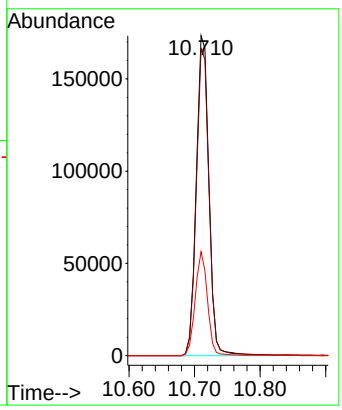


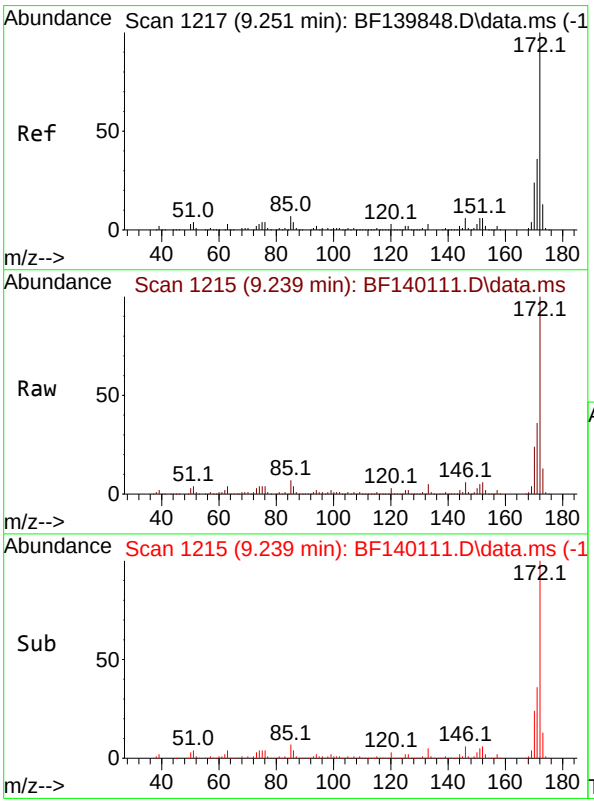
#42
2,4,6-Tribromophenol
Concen: 93.840 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:330 Resp: 234385

Ion	Ratio	Lower	Upper
330	100		
332	96.2	78.1	117.1
141	31.5	26.6	39.8

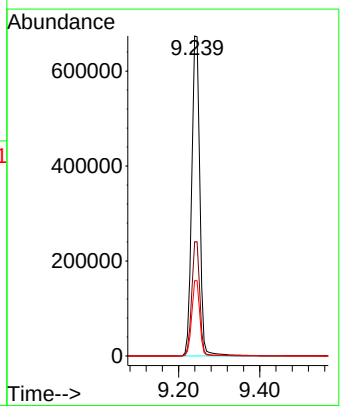


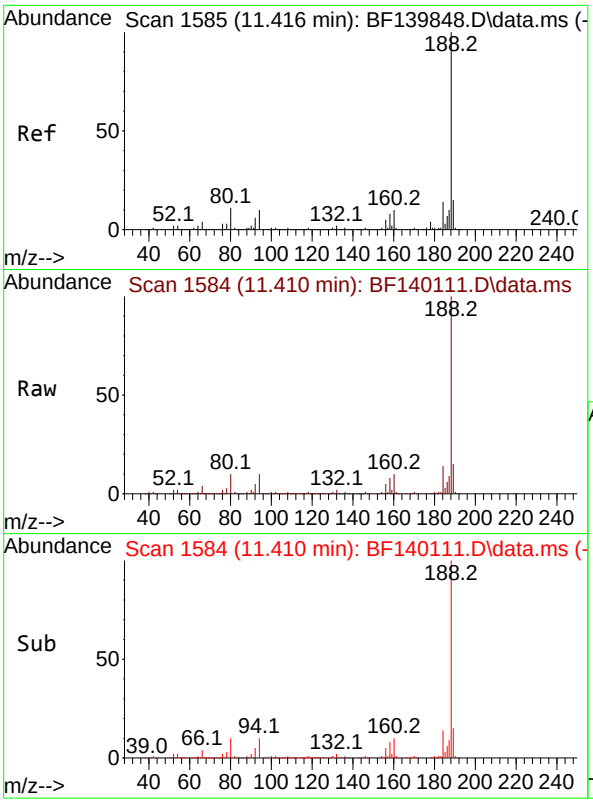


#45
2-Fluorobiphenyl
Concen: 58.069 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:172 Resp: 938225

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	23.6	19.1	28.7



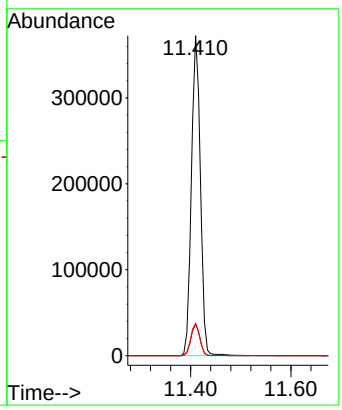


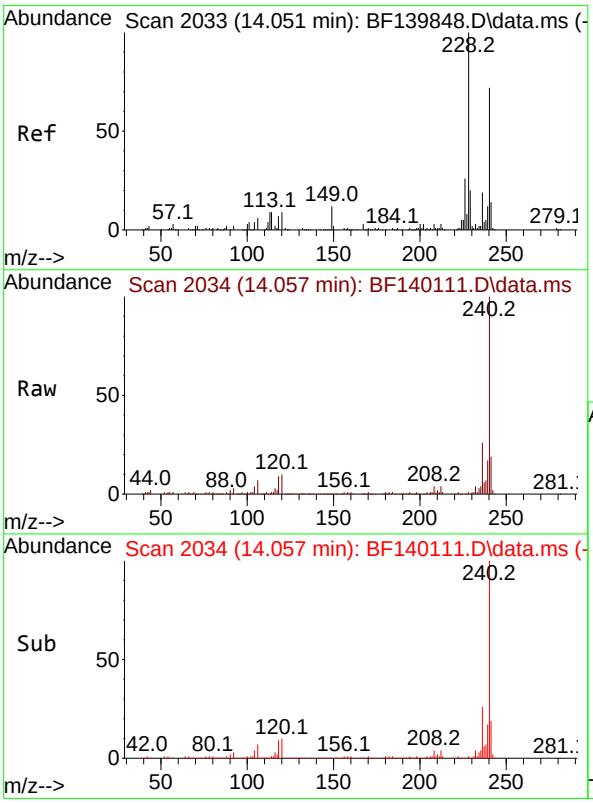
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:188 Resp: 461723

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.9	11.9
80	10.1	9.0	13.4

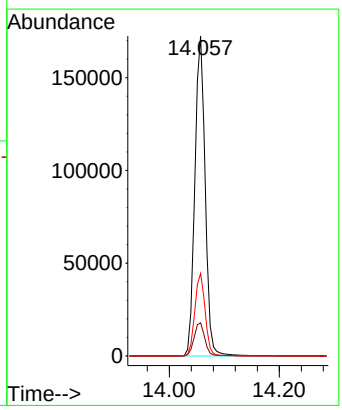


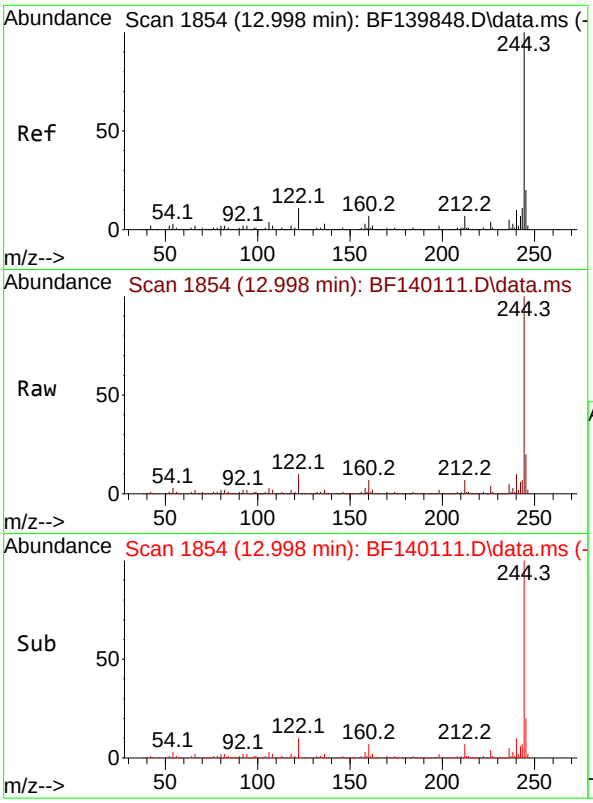


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:240 Resp: 225154

Ion	Ratio	Lower	Upper
240	100		
120	10.4	9.4	14.2
236	25.8	20.9	31.3



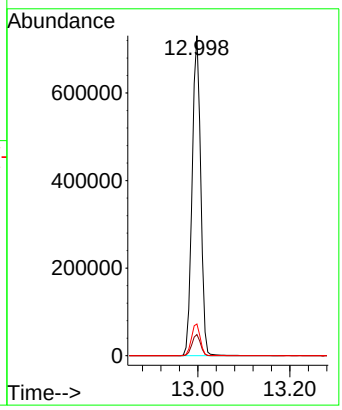


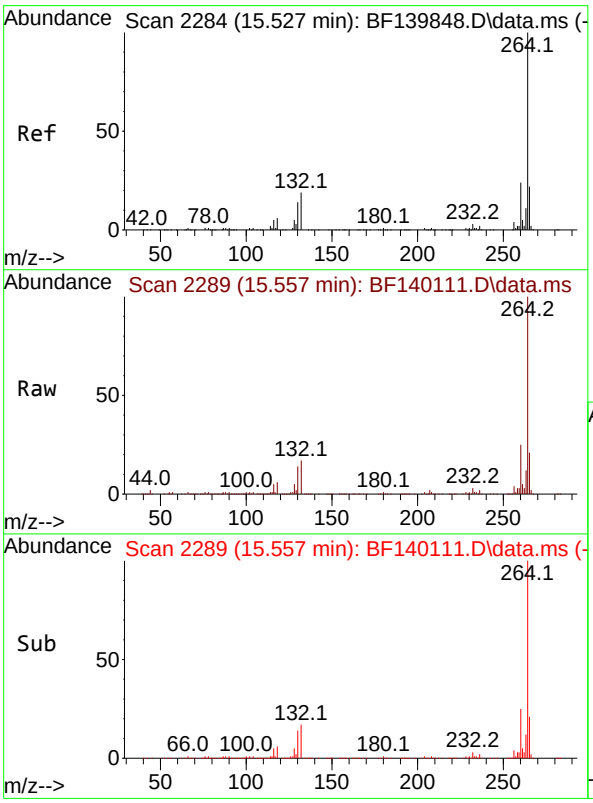
#79
Terphenyl-d14
Concen: 67.911 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:244 Resp: 938369

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	9.9	8.6	13.0

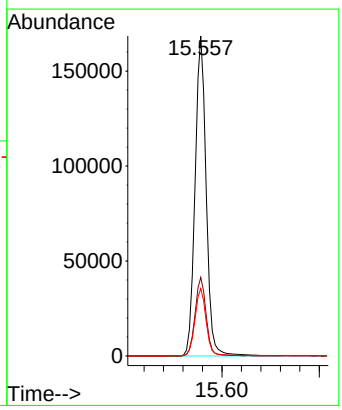




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2289
Delta R.T. 0.030 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:264 Resp: 268509

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	21.1	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140111.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.193	9	17	24	rVB	1266994	2007518	74.34%	8.638%
2	3.999	318	324	336	rVB	21469	35342	1.31%	0.152%
3	5.116	510	514	523	rVB	17523	27735	1.03%	0.119%
4	5.504	574	580	586	rBV	1779539	2384772	88.31%	10.261%
5	6.504	744	750	768	rVB	1747782	2501850	92.64%	10.765%
6	6.887	810	815	820	rBV	618303	750575	27.79%	3.229%
7	7.445	902	910	919	rBV	1177559	1572985	58.25%	6.768%
8	7.698	947	953	960	rVB2	75341	114812	4.25%	0.494%
9	7.904	980	988	992	rBV2	21628	34582	1.28%	0.149%
10	8.169	1025	1033	1040	rBV	783185	1032254	38.22%	4.441%
11	8.381	1063	1069	1076	rBV	28092	40961	1.52%	0.176%
12	8.757	1128	1133	1137	rVB	47651	57250	2.12%	0.246%
13	9.239	1210	1215	1224	rBV	1998750	2700474	100.00%	11.619%
14	9.322	1224	1229	1234	rVB	67396	90403	3.35%	0.389%
15	9.639	1279	1283	1290	rVB3	26856	49288	1.83%	0.212%
16	9.851	1312	1319	1323	rBV	44304	59039	2.19%	0.254%
17	9.922	1326	1331	1343	rVB	887799	1144822	42.39%	4.926%
18	10.351	1396	1404	1408	rBV2	20249	30758	1.14%	0.132%
19	10.633	1447	1452	1459	rBV	488870	640623	23.72%	2.756%
20	10.710	1459	1465	1479	rVV	1375616	1827006	67.66%	7.861%
21	10.945	1501	1505	1512	rVB	37178	47221	1.75%	0.203%
22	11.410	1579	1584	1592	rBV	898380	1137268	42.11%	4.893%
23	11.475	1592	1595	1600	rVB2	37803	49234	1.82%	0.212%
24	11.639	1617	1623	1631	rBV8	14214	41207	1.53%	0.177%
25	11.933	1666	1673	1685	rBV	275405	452288	16.75%	1.946%
26	12.022	1685	1688	1697	rVB2	17953	40666	1.51%	0.175%
27	12.186	1712	1716	1724	rVB3	63064	81770	3.03%	0.352%
28	12.433	1754	1758	1765	rBV3	16929	32600	1.21%	0.140%
29	12.663	1794	1797	1802	rVB	27428	35969	1.33%	0.155%
30	12.722	1802	1807	1813	rBV2	28864	48440	1.79%	0.208%
31	12.857	1826	1830	1834	rBV2	16240	34169	1.27%	0.147%
32	12.998	1848	1854	1859	rBV	1895286	2439680	90.34%	10.497%
33	13.227	1889	1893	1900	rBV2	19363	27811	1.03%	0.120%
34	13.569	1947	1951	1960	rBV	25218	39911	1.48%	0.172%
35	13.898	2002	2007	2026	rBV	78496	201410	7.46%	0.867%
36	14.057	2028	2034	2046	rVB	481682	648129	24.00%	2.789%

Sample Results: **BF140111.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	14.221	2058	2062	2067	rBV	22027	28968	1.07%	0.125%
38	14.539	2112	2116	2121	rBV	19358	27398	1.01%	0.118%
39	15.557	2282	2289	2302	rBV	451534	724396	26.82%	3.117%

Sum of corrected areas: 23241584

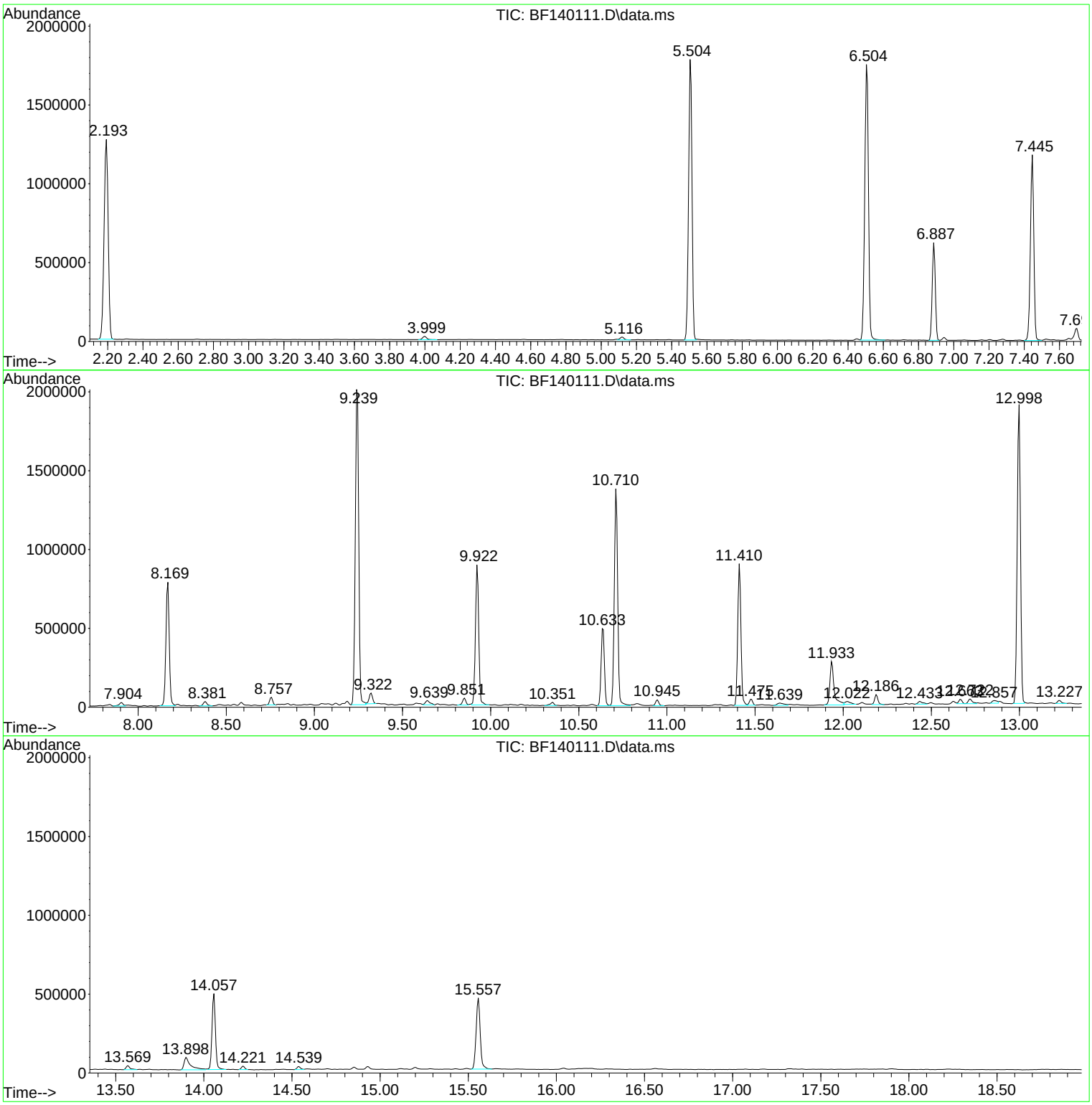
Sample Results: **BF140111.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

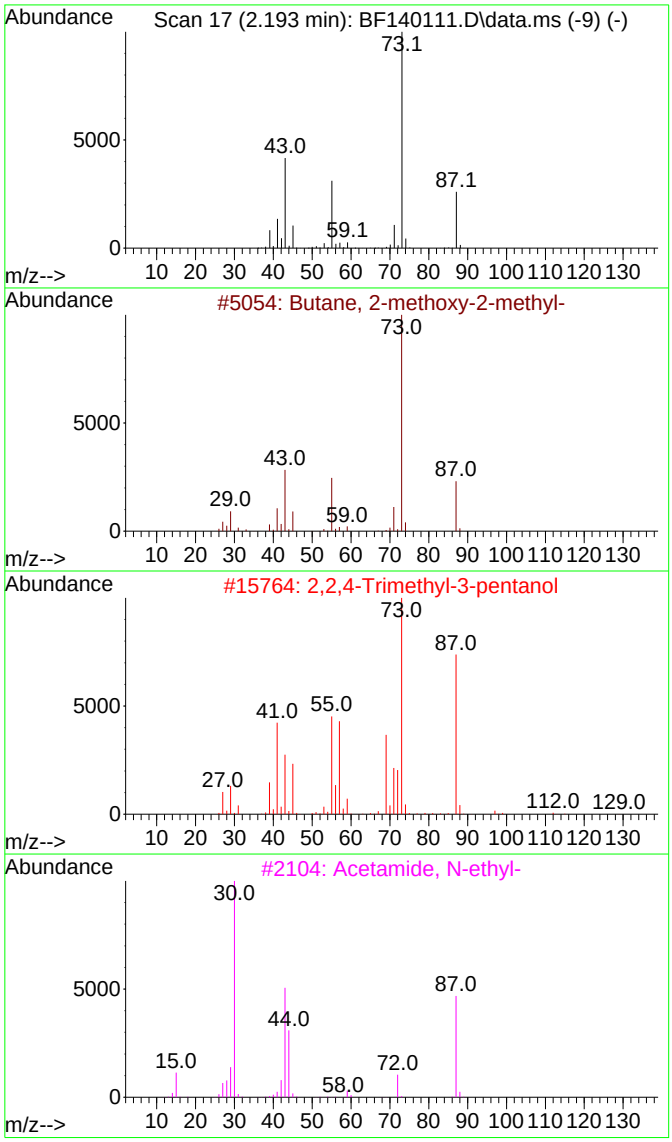
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TIC Integration Parameters: LSCINT.P

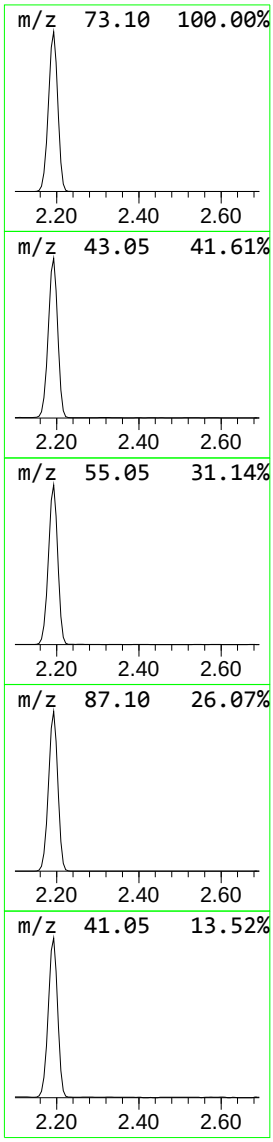
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.193	53.49 ng	2007520	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

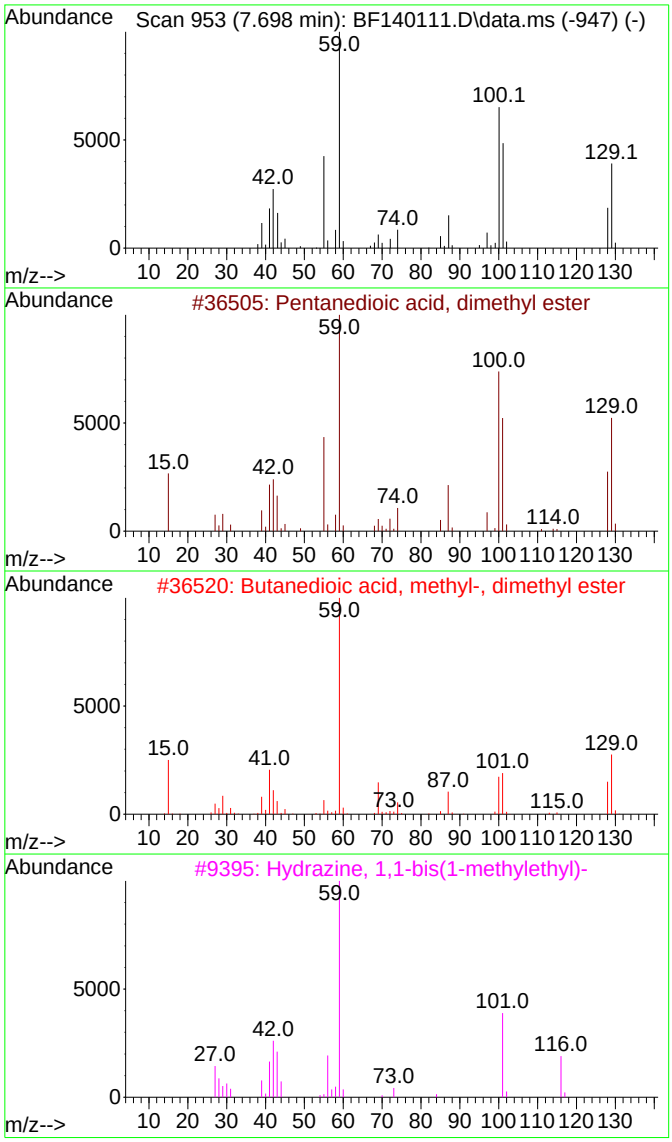
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

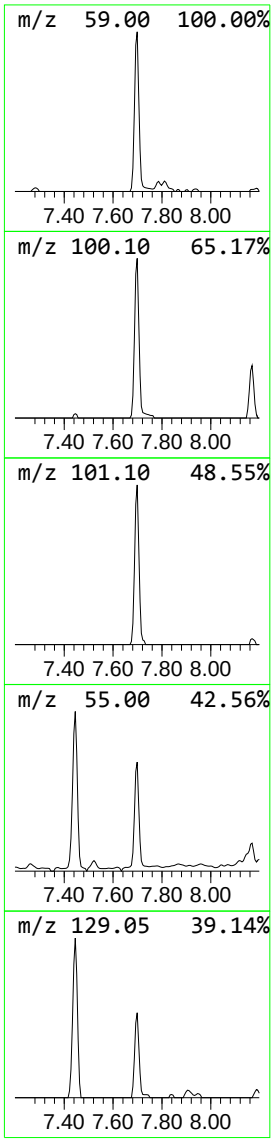
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Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.698	2.22 ng	114812	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	91
2	Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	42
3	Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	37
4	Hydrazine, (1-methylethyl)-	74	C3H10N2	002257-52-5	27
5	Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	27





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

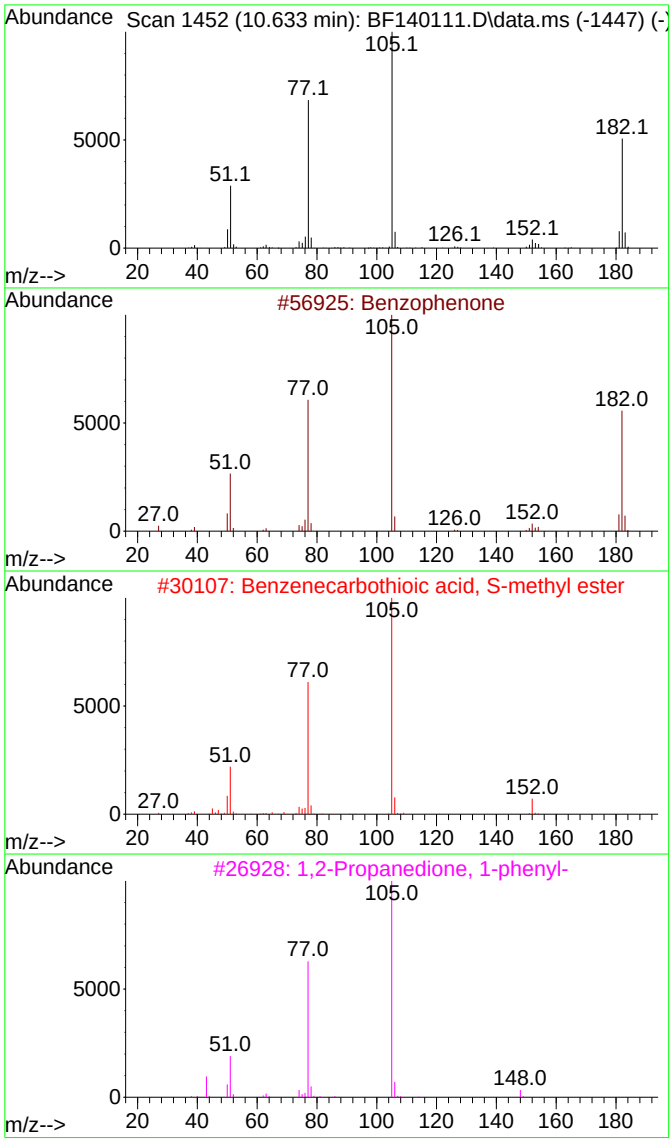
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

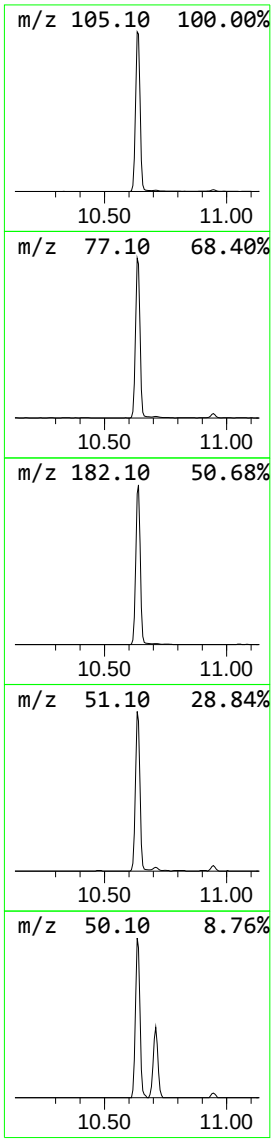
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Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.633	11.19 ng	640623	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47
4	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

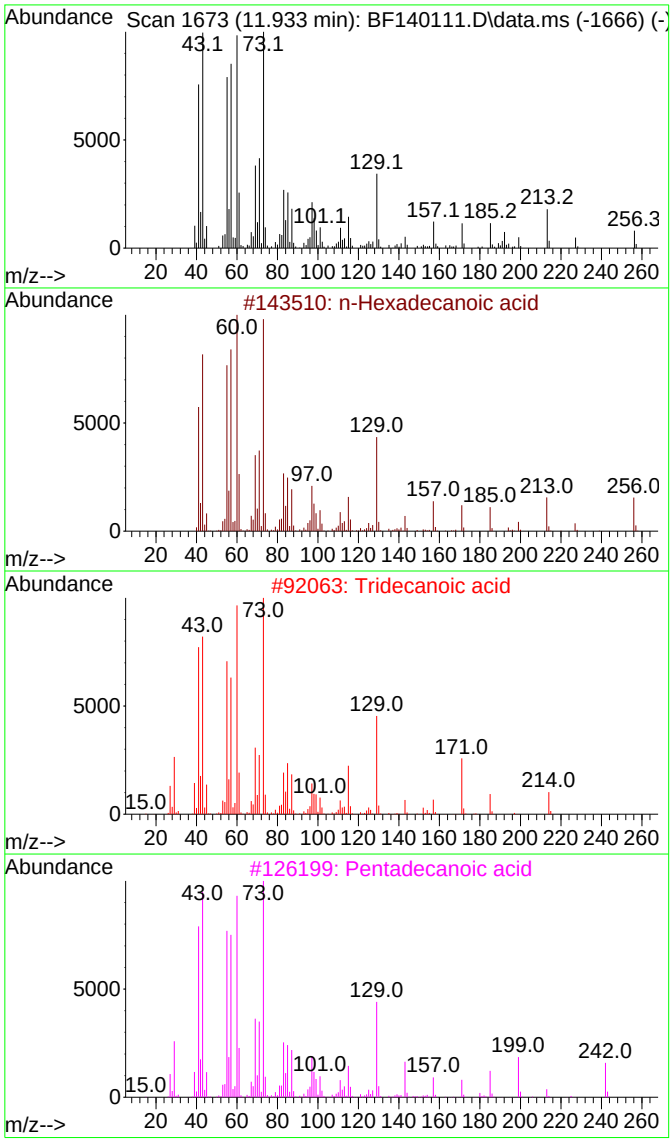
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TIC Integration Parameters: LSCINT.P

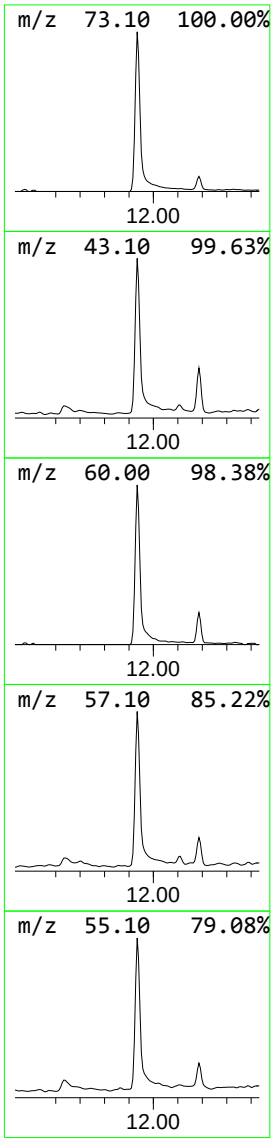
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Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	7.95 ng	452288	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	Undecanoic acid	186	C11H22O2	000112-37-8	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

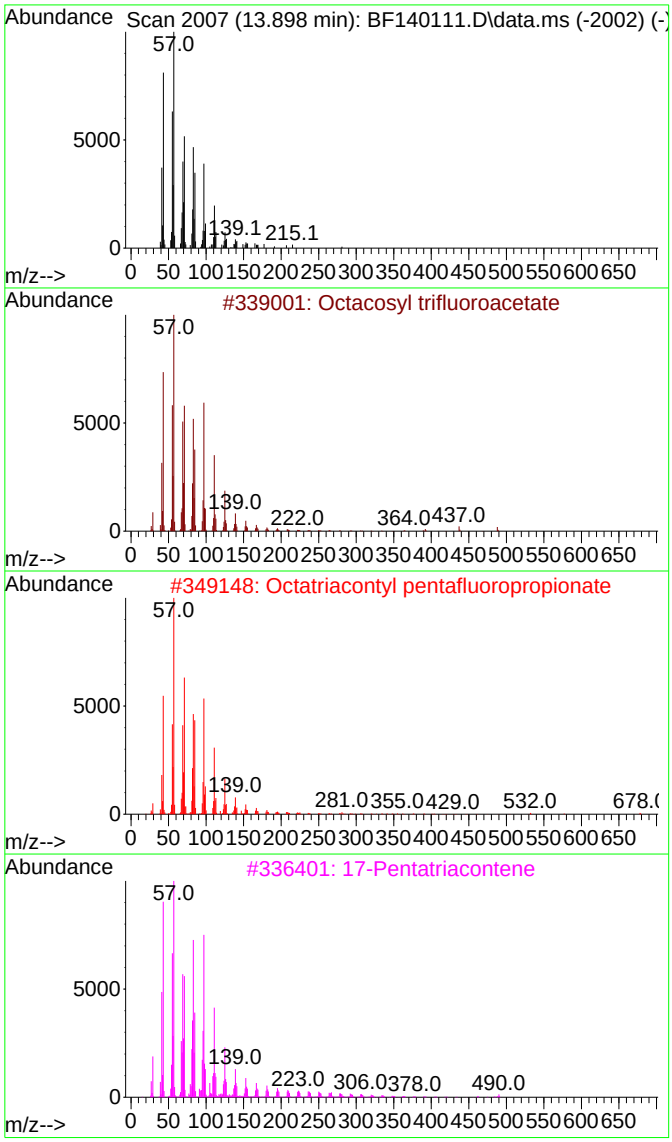
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

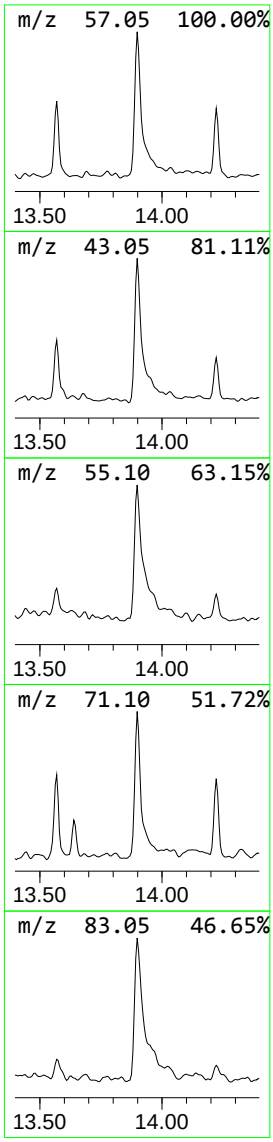
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Peak Number 5 Octacosyl trifluoroacetate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.898	6.22 ng	201410	Chrysene-d12	14.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	91
2	Octatriacontyl pentafluoropropio...	697	C41H77F5O2	1000351-89-1	91
3	17-Pentatriacontene	491	C35H70	006971-40-0	91
4	Triacontyl trifluoroacetate	534	C32H61F3O2	1000351-75-7	91
5	Tetratriacontyl heptafluorobutyrate	691	C38H69F7O2	1000351-84-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.193	53.5	ng	2007520	1	6.887	750575	20.0
Pentanedioic ac...	7.698	2.2	ng	114812	2	8.169	1032250	20.0
Benzophenone	10.633	11.2	ng	640623	3	9.922	1144820	20.0
n-Hexadecanoic ...	11.933	8.0	ng	452288	4	11.410	1137270	20.0
Octacosyl trifl...	13.898	6.2	ng	201410	5	14.057	648129	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Time: Oct 29 11:31:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

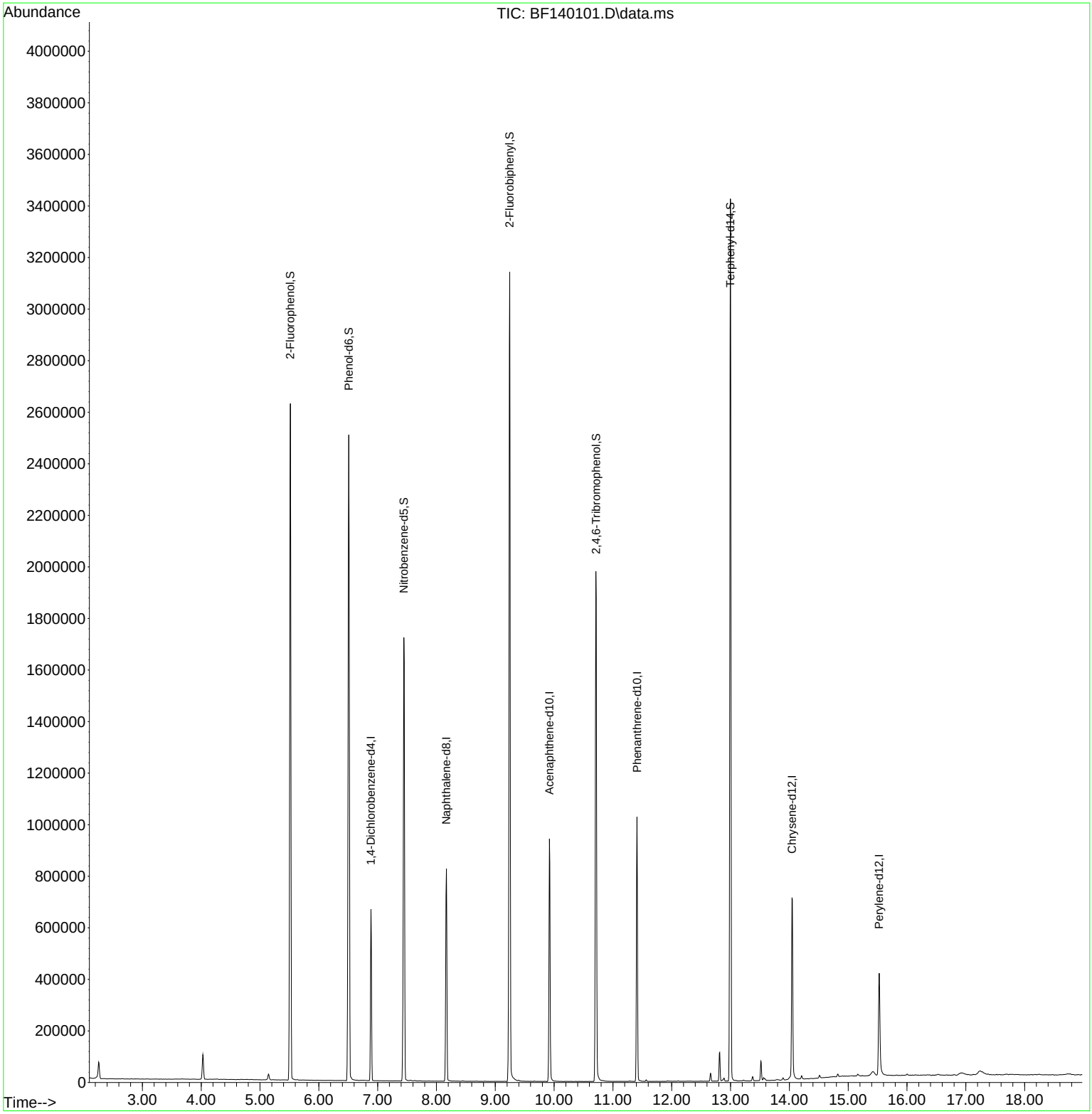
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	132334	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	522078	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	293840	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	532374	20.000	ng	0.00
76) Chrysene-d12	14.045	240	353787	20.000	ng	0.00
86) Perylene-d12	15.527	264	265432	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1005416	118.939	ng	0.02
7) Phenol-d6	6.510	99	1269087	115.917	ng	0.00
23) Nitrobenzene-d5	7.445	82	844513	89.653	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	371294	135.090	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1529595	86.032	ng	0.00
79) Terphenyl-d14	12.998	244	1772789	81.652	ng	0.00
Target Compounds						Qvalue

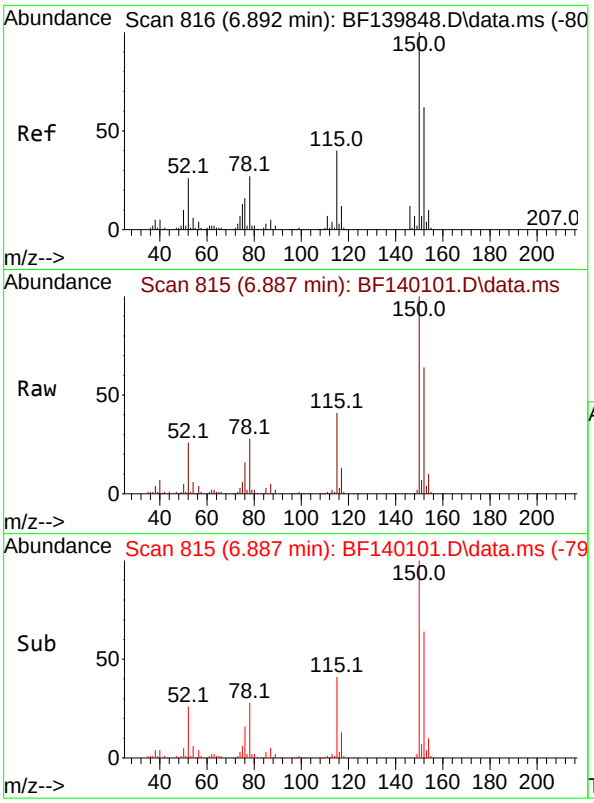
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Time: Oct 29 11:31:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



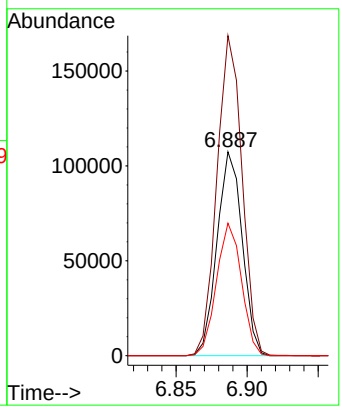


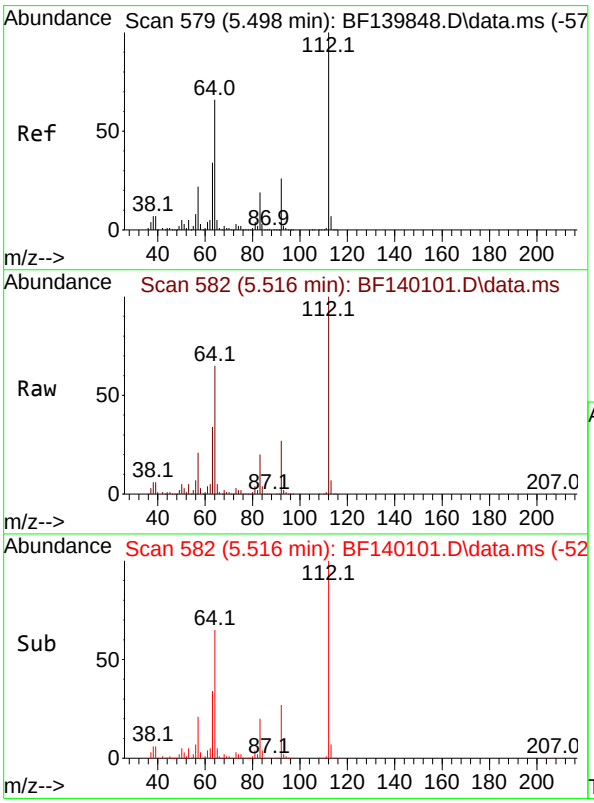
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion:152 Resp: 132334

Ion	Ratio	Lower	Upper
152	100		
150	156.9	130.2	195.2
115	65.0	51.4	77.2

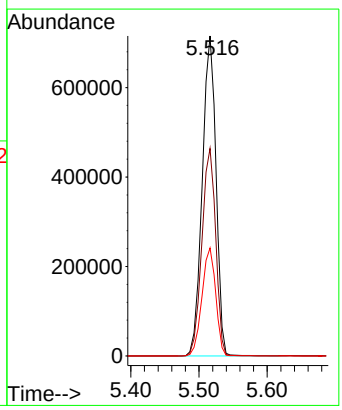


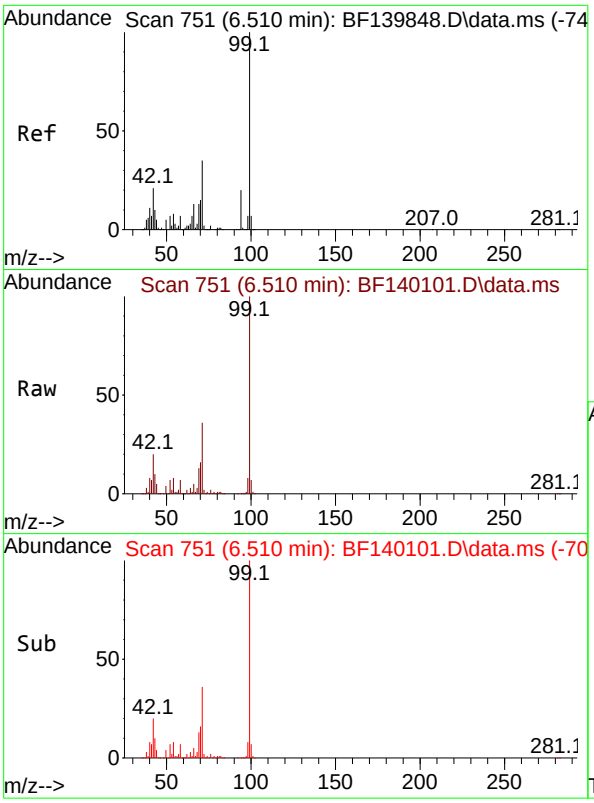


#5
2-Fluorophenol
Concen: 118.939 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:112 Resp: 1005416

Ion	Ratio	Lower	Upper
112	100		
64	64.9	53.0	79.6
63	33.7	27.0	40.4



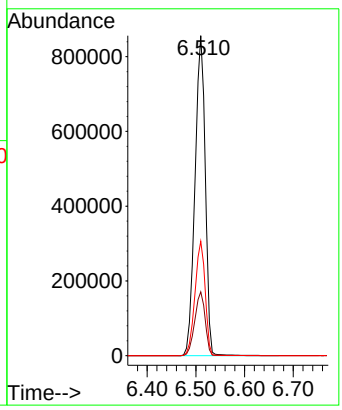


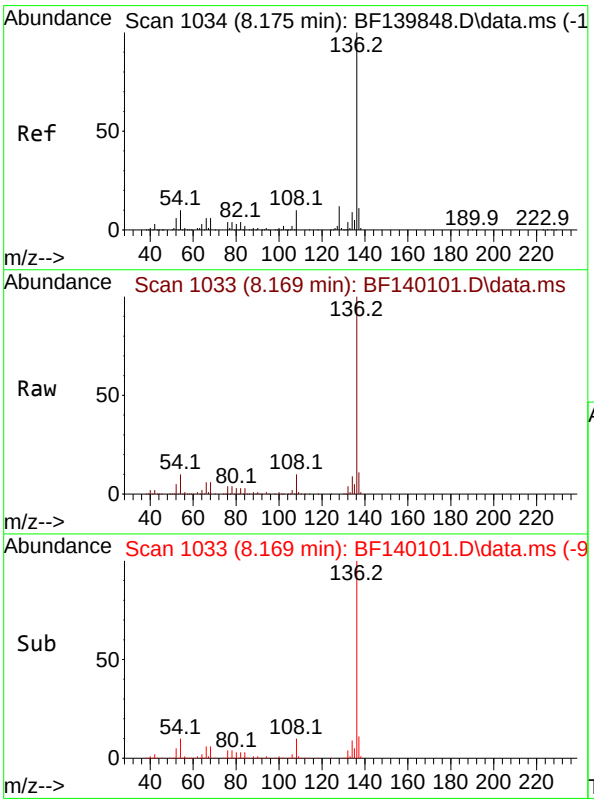
#7
Phenol-d6
Concen: 115.917 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion: 99 Resp: 1269087

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.7	25.1
71	35.7	27.7	41.5

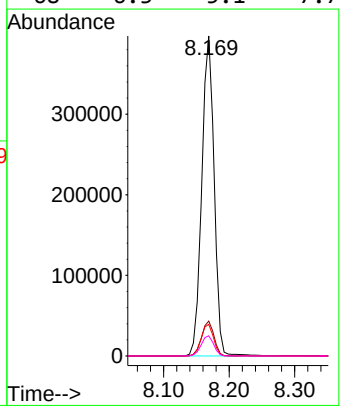


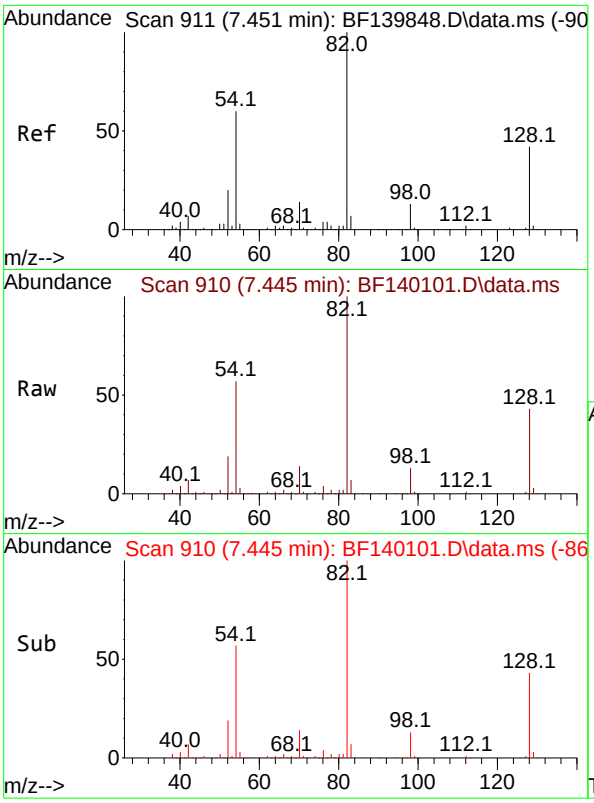


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:136 Resp: 522078

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.8	8.4	12.6
68	6.3	5.1	7.7



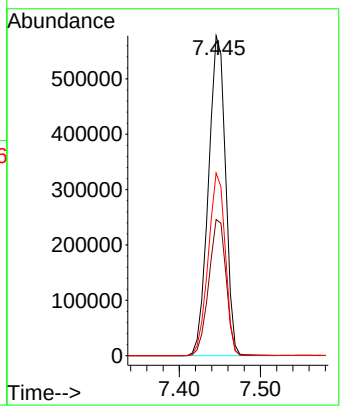


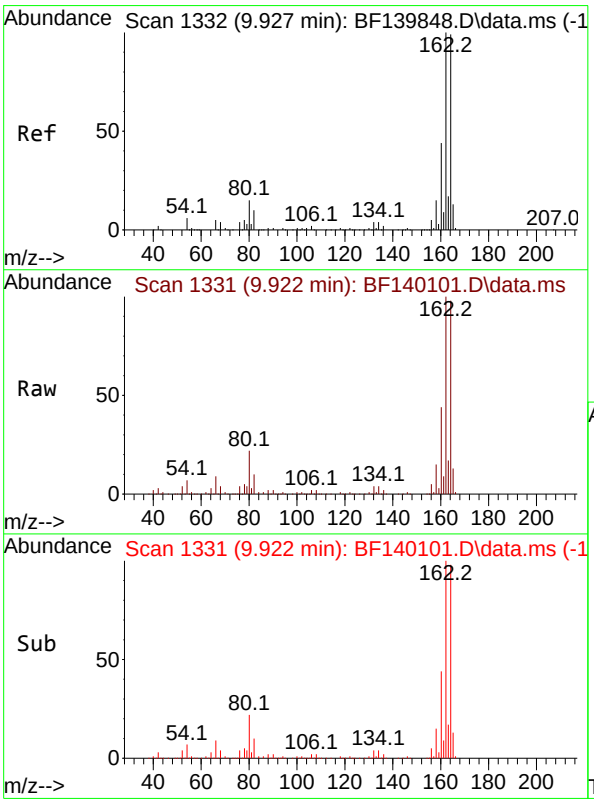
#23
Nitrobenzene-d5
Concen: 89.653 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion: 82 Resp: 844513

Ion	Ratio	Lower	Upper
82	100		
128	42.5	33.4	50.0
54	57.0	47.8	71.8

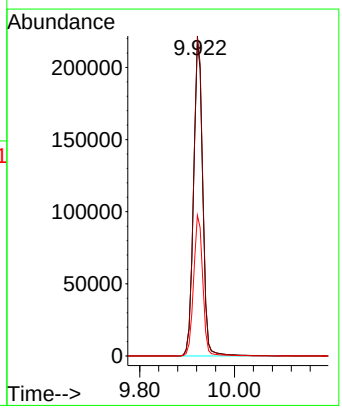


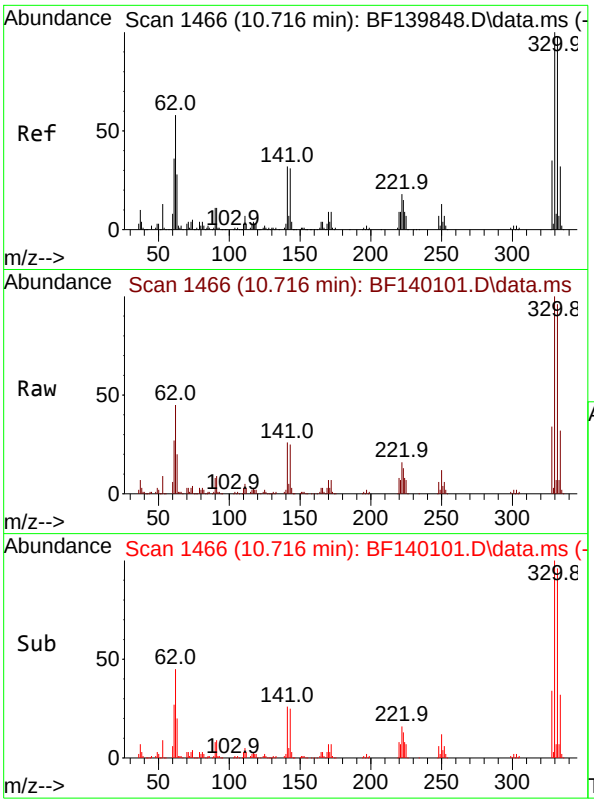


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:164 Resp: 293840

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.0	121.4
160	44.7	35.4	53.0



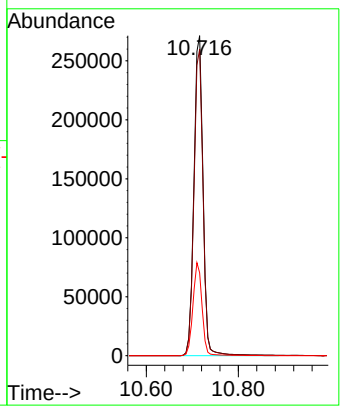


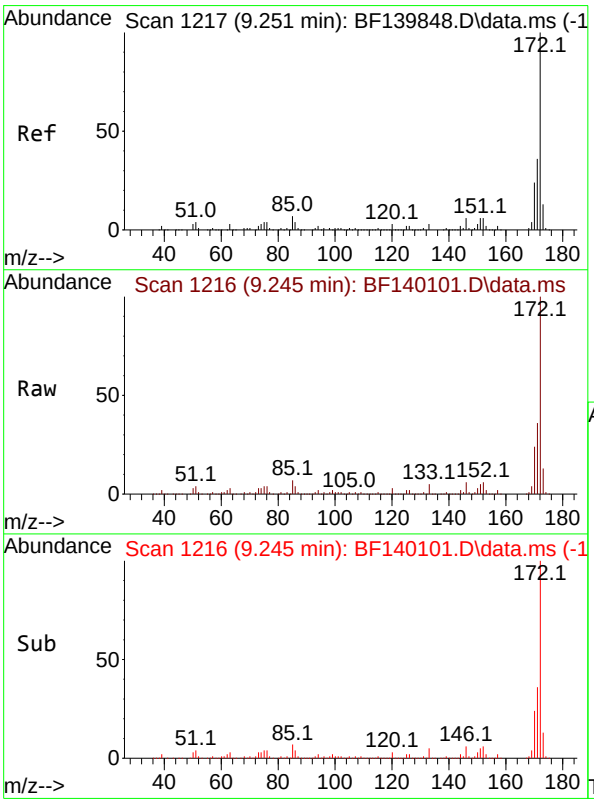
#42
2,4,6-Tribromophenol
Concen: 135.090 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion:330 Resp: 371294

Ion	Ratio	Lower	Upper
330	100		
332	95.8	78.1	117.1
141	29.0	26.6	39.8

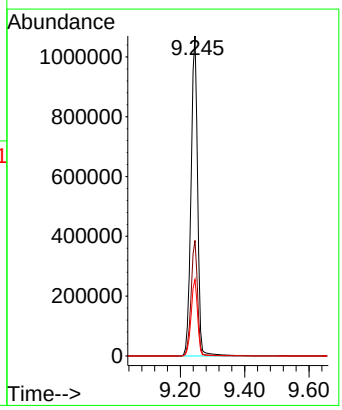


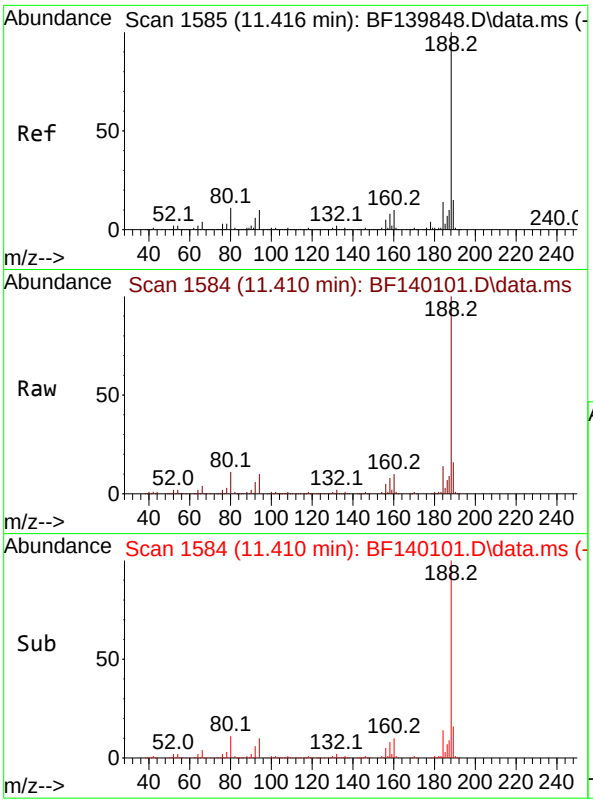


#45
2-Fluorobiphenyl
Concen: 86.032 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:172 Resp: 1529595

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.6	43.0
170	23.9	19.1	28.7



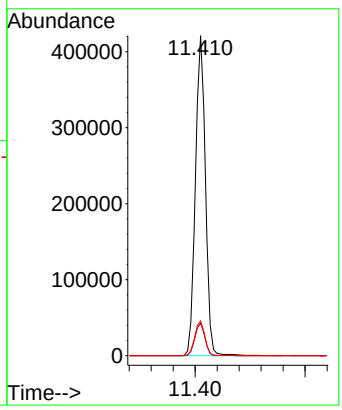


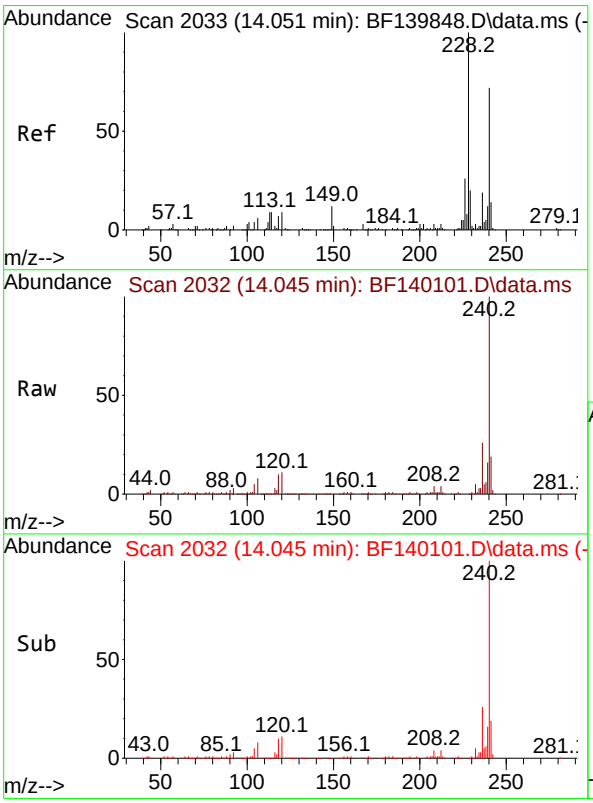
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion:188 Resp: 532374

Ion	Ratio	Lower	Upper
188	100		
94	10.2	7.9	11.9
80	10.9	9.0	13.4

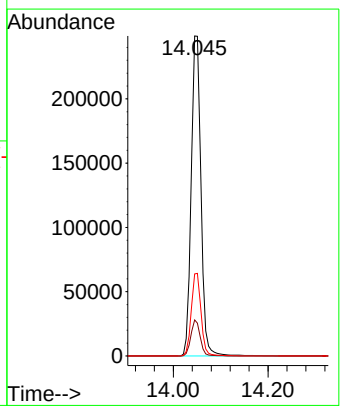


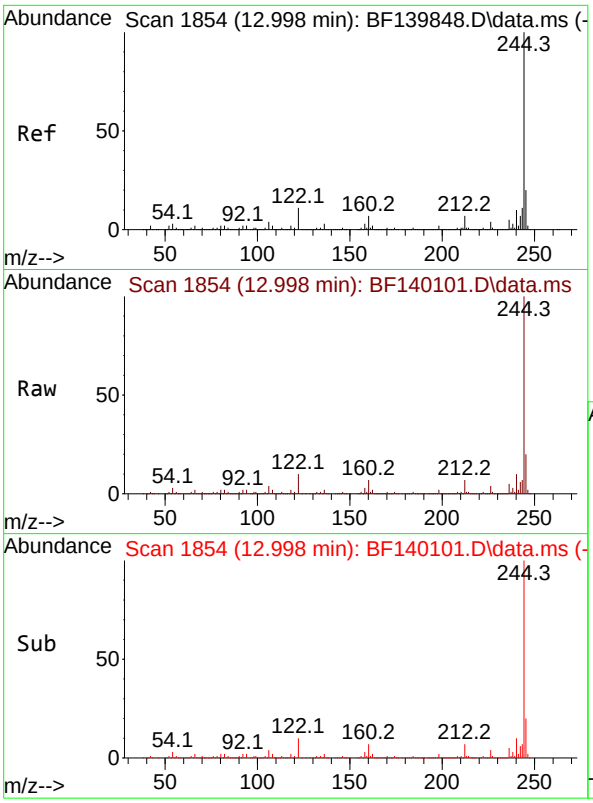


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:240 Resp: 353787

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.4	14.2
236	25.7	20.9	31.3



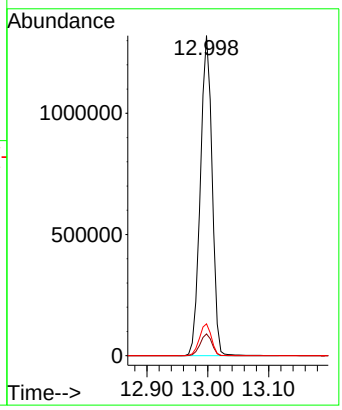


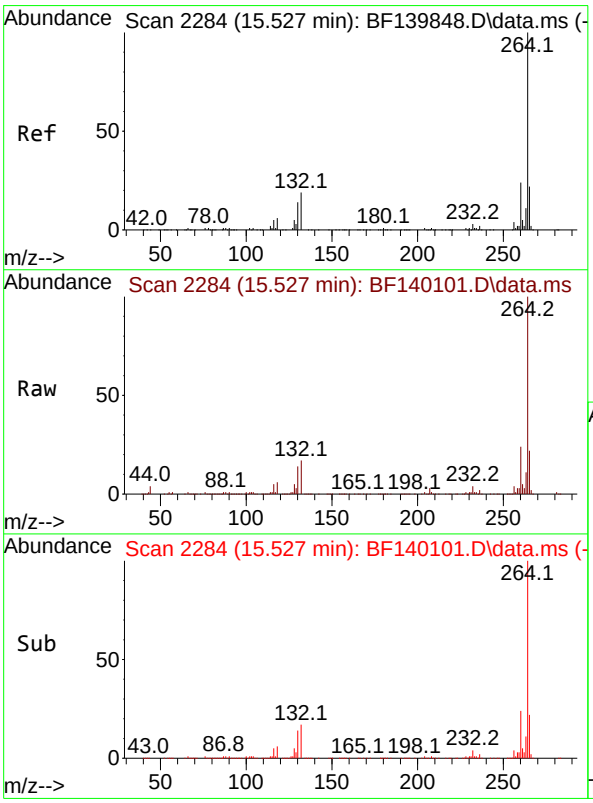
#79
Terphenyl-d14
Concen: 81.652 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion:244 Resp: 1772789

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	9.9	8.6	13.0

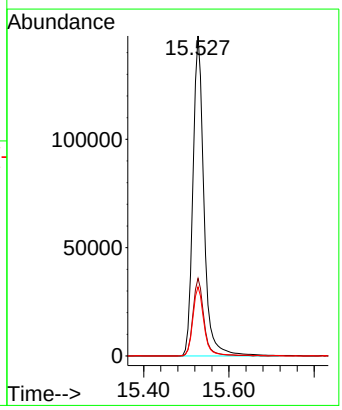




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:264 Resp: 265432

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.4	29.2
265	21.6	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140101.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.257	22	28	35	rVB	64016	110751	2.42%	0.392%
2	4.028	323	329	336	rVB	95189	148334	3.24%	0.525%
3	5.516	575	582	587	rBV	2624062	3686953	80.42%	13.044%
4	6.510	744	751	756	rBV	2505060	3692827	80.55%	13.065%
5	6.887	810	815	820	rBV	663892	811248	17.70%	2.870%
6	7.445	903	910	916	rBV	1719891	2511645	54.78%	8.886%
7	8.169	1027	1033	1038	rBV	823553	1075342	23.46%	3.804%
8	9.245	1208	1216	1221	rBV	3139567	4388519	95.72%	15.526%
9	9.922	1325	1331	1350	rBV	941396	1253723	27.35%	4.436%
10	10.710	1459	1465	1483	rBV	1978273	2735902	59.68%	9.679%
11	11.410	1578	1584	1593	rBV	1025478	1284527	28.02%	4.544%
12	12.816	1818	1823	1827	rBV	111062	140421	3.06%	0.497%
13	12.998	1848	1854	1859	rBV	3421747	4584564	100.00%	16.220%
14	13.516	1937	1942	1947	rBV	75508	98002	2.14%	0.347%
15	14.045	2020	2032	2046	rBV	704368	1043721	22.77%	3.693%
16	15.527	2278	2284	2301	rBV	393768	699137	15.25%	2.473%

Sum of corrected areas: 28265616

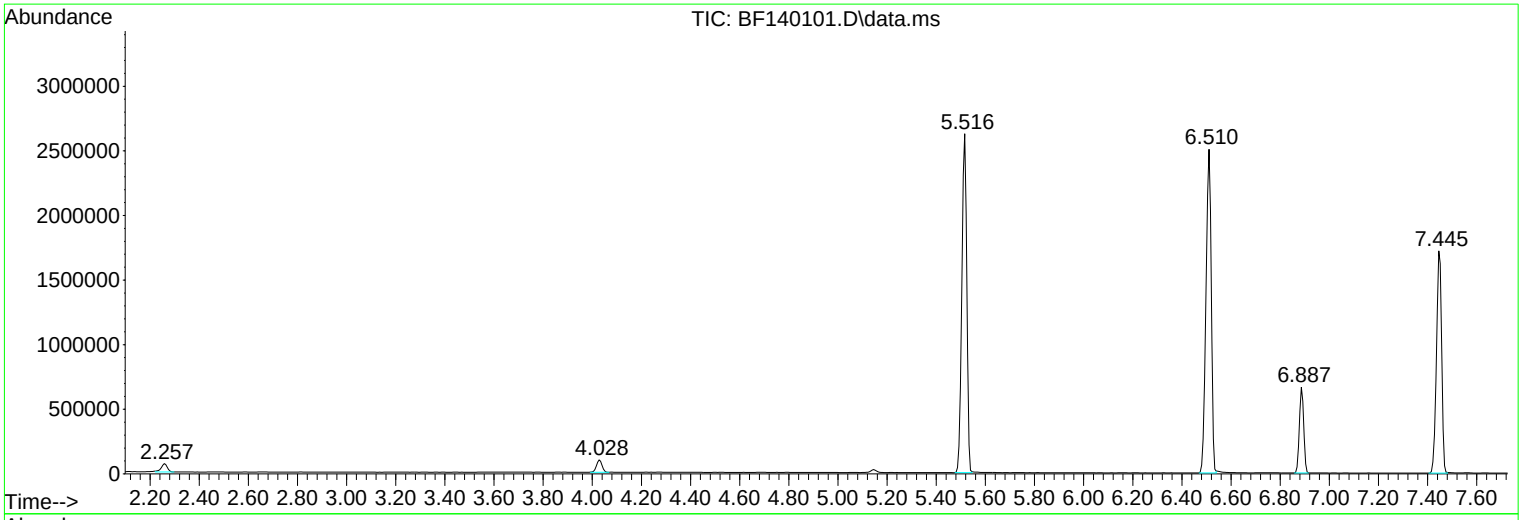
Sample Results: **BF140101.D**

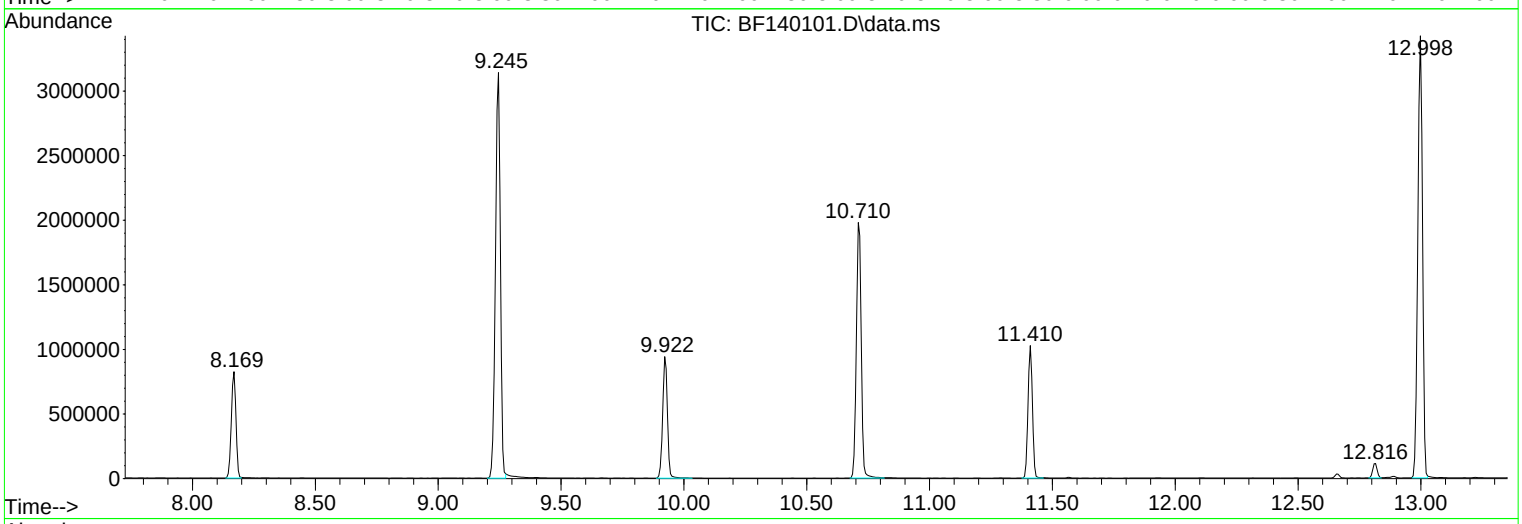
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

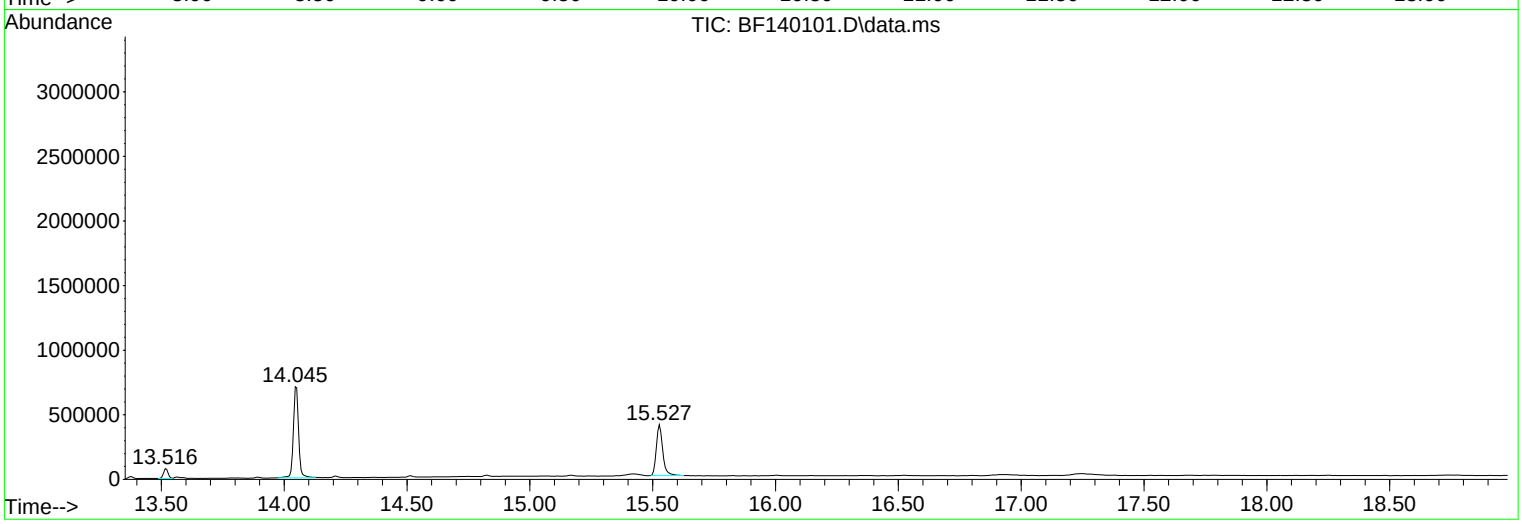
Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

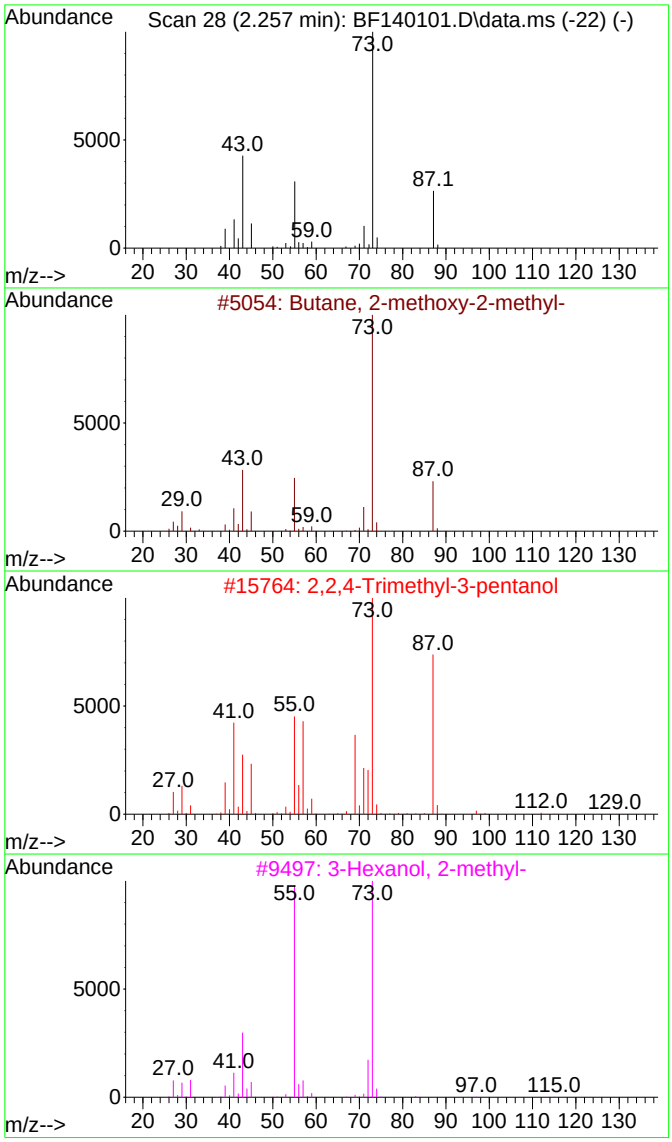
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

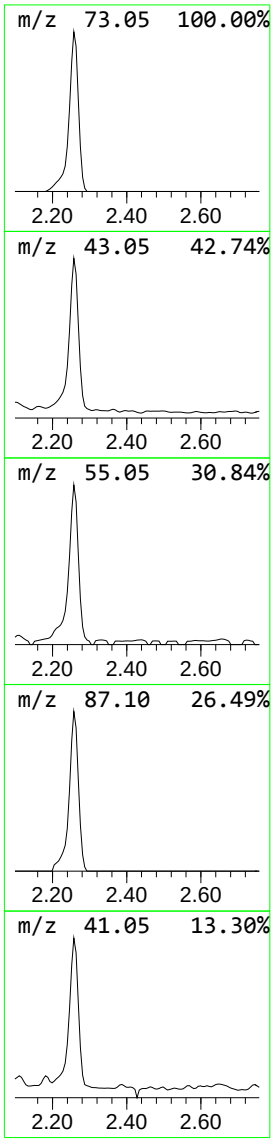
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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.257	2.73 ng	110751	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	25
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	25
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

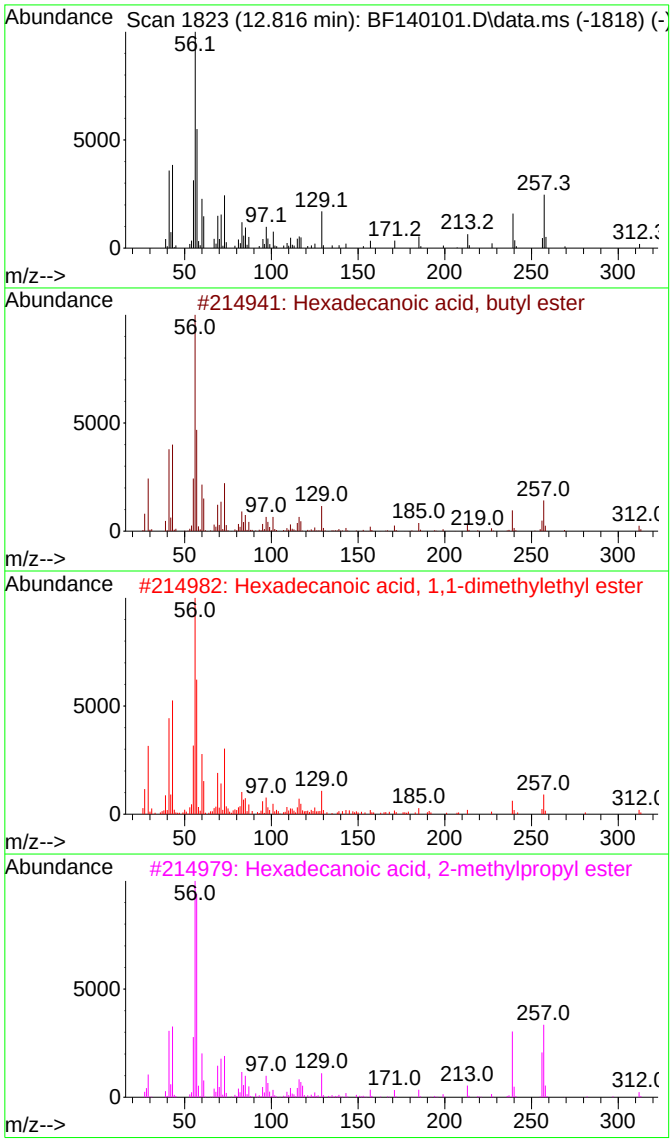
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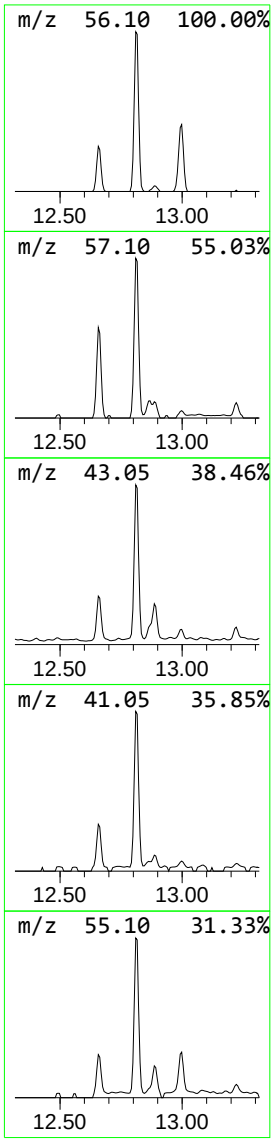
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Peak Number 3 Hexadecanoic acid, butyl ester Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.816	2.69 ng	140421	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, butyl ester	312	C20H40O2	000111-06-8	99
2	Hexadecanoic acid, 1,1-dimethyle...	312	C20H40O2	031158-91-5	96
3	Hexadecanoic acid, 2-methylpropy...	312	C20H40O2	000110-34-9	91
4	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	30
5	Cyclohexanol, 4-amino-, trans-	115	C6H13NO	027489-62-9	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.257	2.7	ng	110751	1	6.887	811248	20.0
Hexadecanoic ac...	12.816	2.7	ng	140421	5	14.045	1043720	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Time: Oct 31 14:12:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

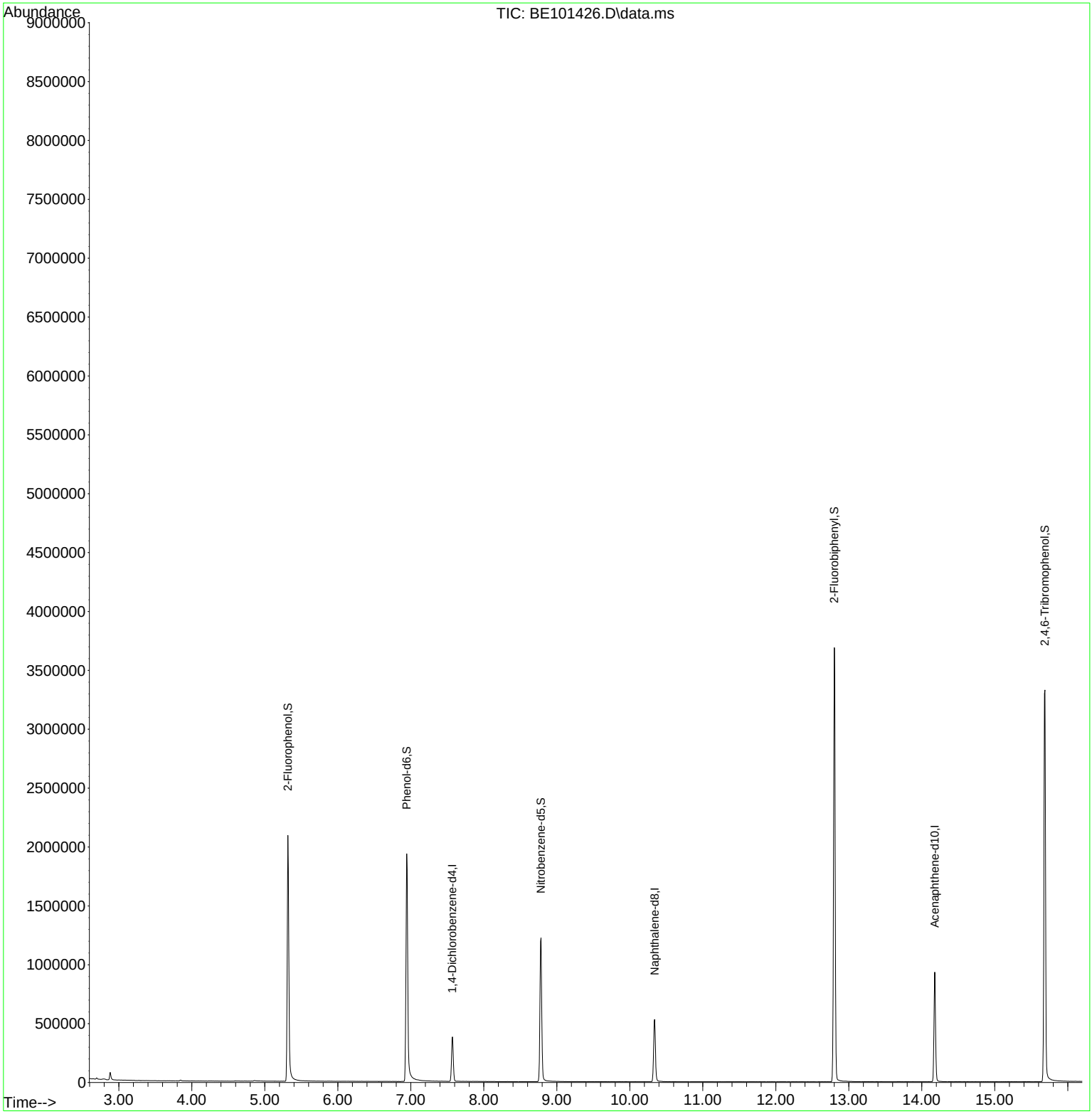
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	111412	20.000	ng	0.00
21) Naphthalene-d8	10.340	136	479387	20.000	ng	0.00
39) Acenaphthene-d10	14.177	164	322455	20.000	ng	0.00
64) Phenanthrene-d10	16.915	188	764639	20.000	ng	0.00
76) Chrysene-d12	21.075	240	978042	20.000	ng	0.00
86) Perylene-d12	23.361	264	1302952	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.317	112	1015593	159.767	ng	0.00
7) Phenol-d6	6.944	99	1307959	148.392	ng	0.00
23) Nitrobenzene-d5	8.783	82	750895	98.382	ng	0.00
42) 2,4,6-Tribromophenol	15.687	330	850212	150.437	ng	0.00
45) 2-Fluorobiphenyl	12.802	172	1974331	103.692	ng	0.00
79) Terphenyl-d14	19.512	244	3819837	89.889	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

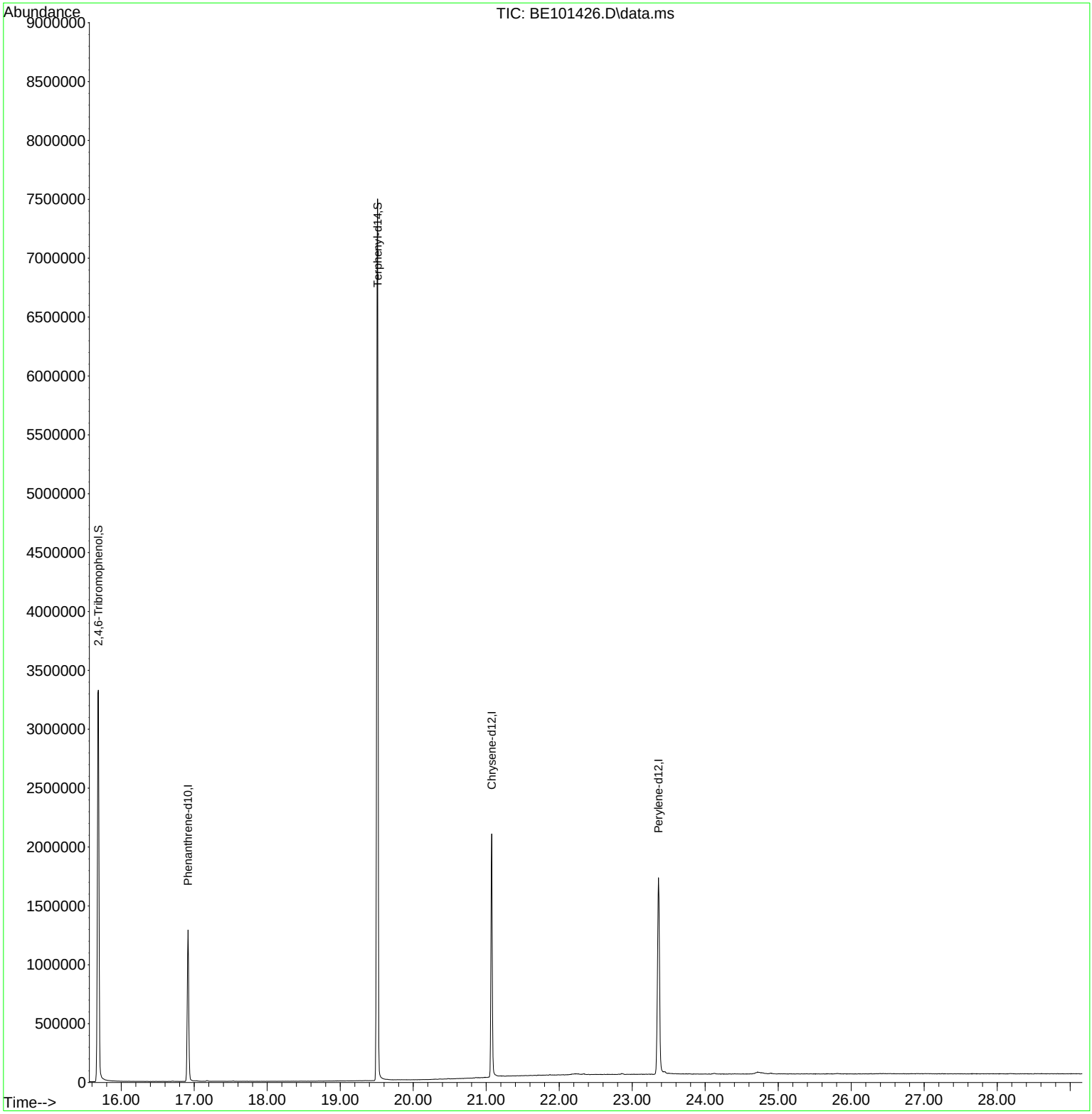
Quant Time: Oct 31 14:12:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

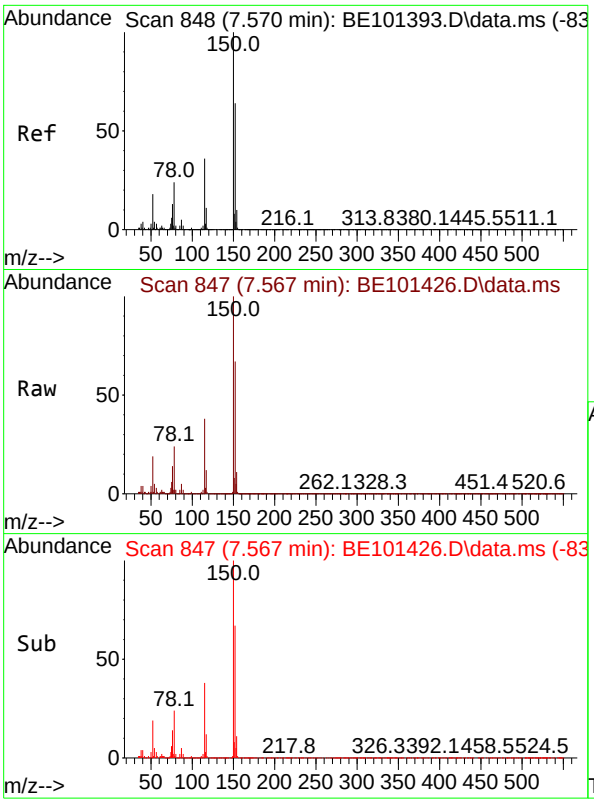


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Time: Oct 31 14:12:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



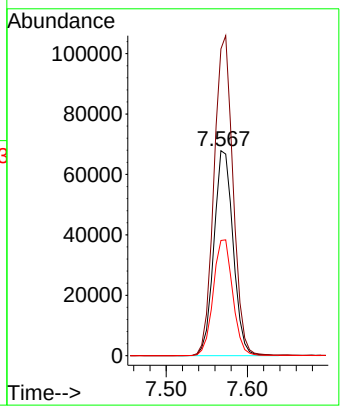


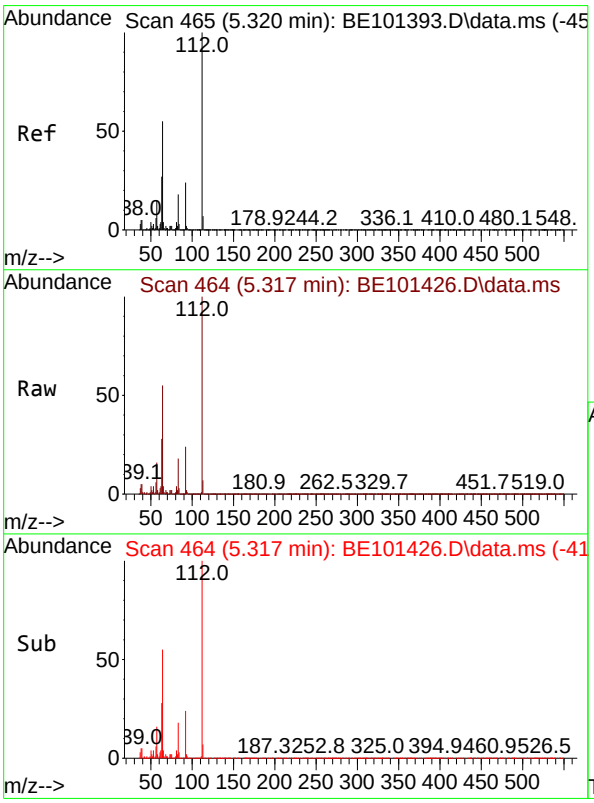
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.567 min Scan# 84
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion:152 Resp: 111412

Ion	Ratio	Lower	Upper
152	100		
150	149.6	124.2	186.4
115	56.2	45.3	67.9

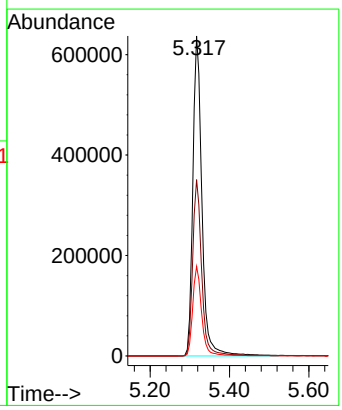


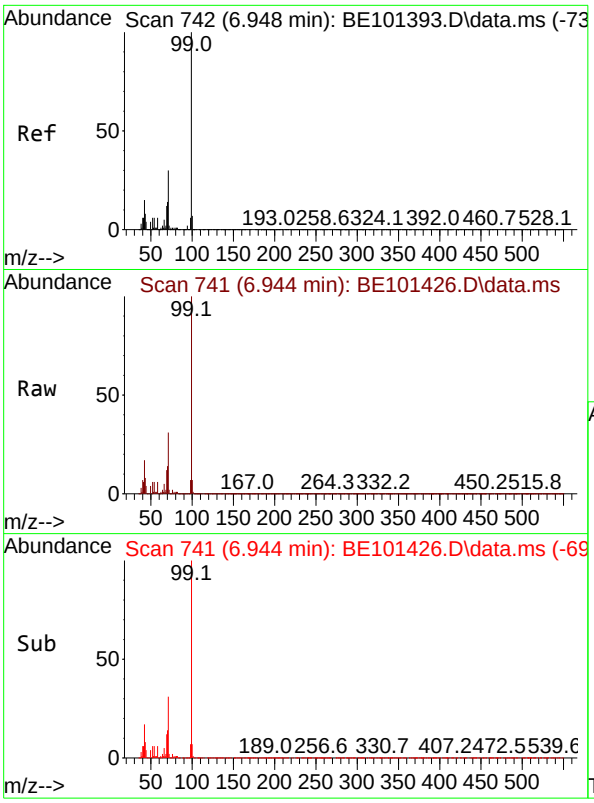


#5
2-Fluorophenol
Concen: 159.767 ng
RT: 5.317 min Scan# 464
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:112 Resp: 1015593

Ion	Ratio	Lower	Upper
112	100		
64	55.1	43.7	65.5
63	28.0	21.4	32.2



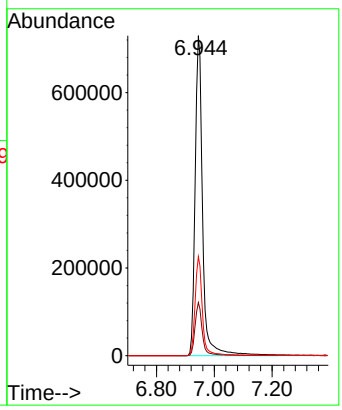


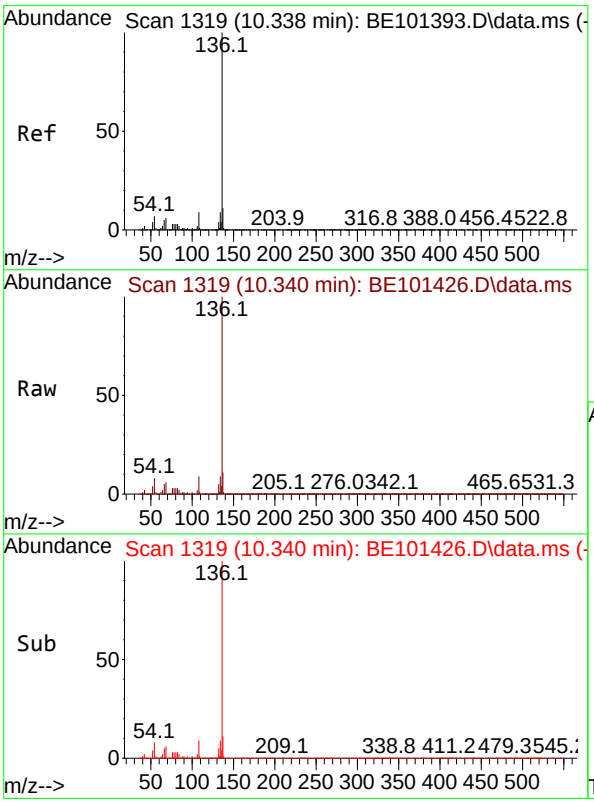
#7
Phenol-d6
Concen: 148.392 ng
RT: 6.944 min Scan# 7
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion: 99 Resp: 1307959

Ion	Ratio	Lower	Upper
99	100		
42	16.6	12.3	18.5
71	31.0	23.8	35.8

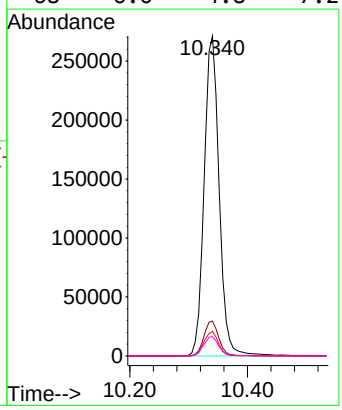


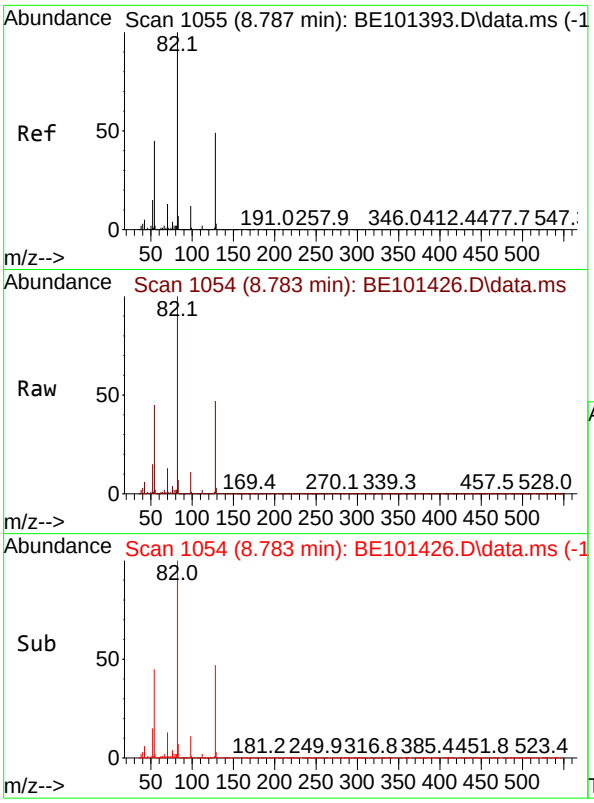


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.340 min Scan# 1319
Delta R.T. 0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:136 Resp: 479387

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.6
54	7.6	5.9	8.9
68	6.0	4.8	7.2



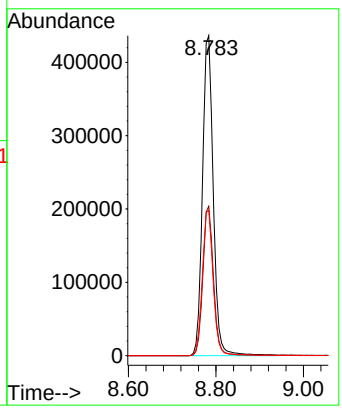


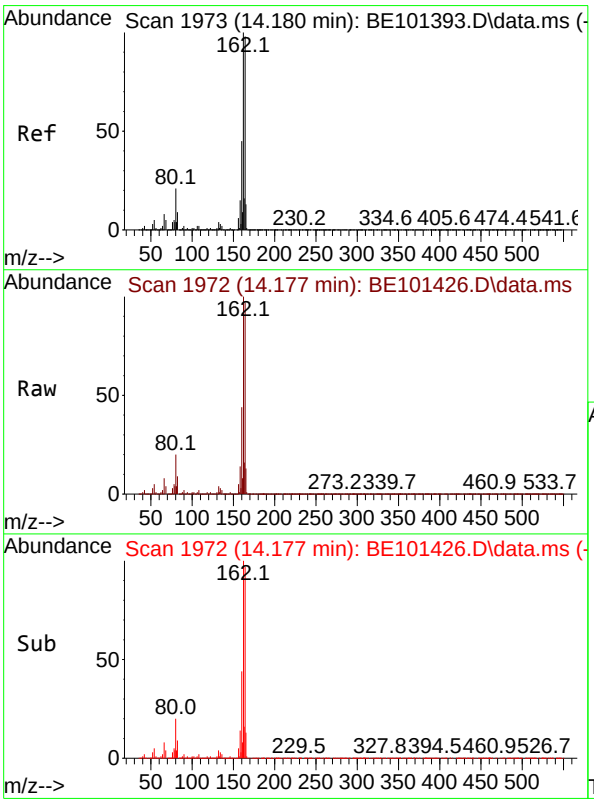
#23
Nitrobenzene-d5
Concen: 98.382 ng
RT: 8.783 min Scan# 1
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion: 82 Resp: 750895

Ion	Ratio	Lower	Upper
82	100		
128	46.7	38.9	58.3
54	45.5	36.2	54.4

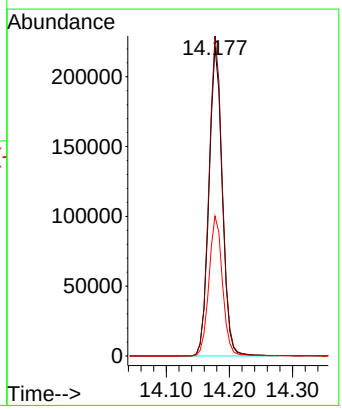


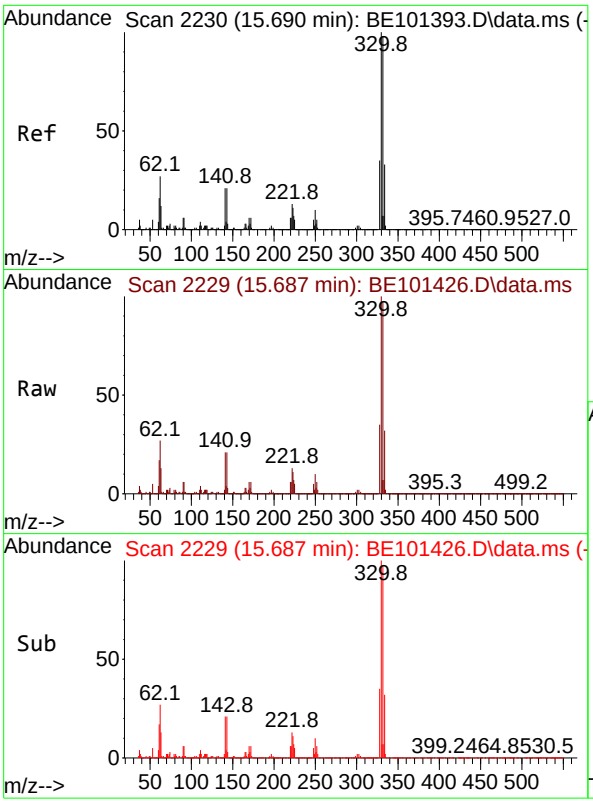


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.177 min Scan# 1972
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:164 Resp: 322455

Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.3	121.9
160	45.2	36.4	54.6



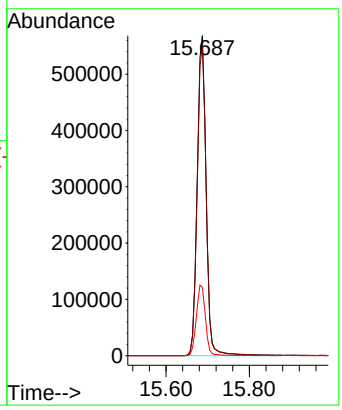


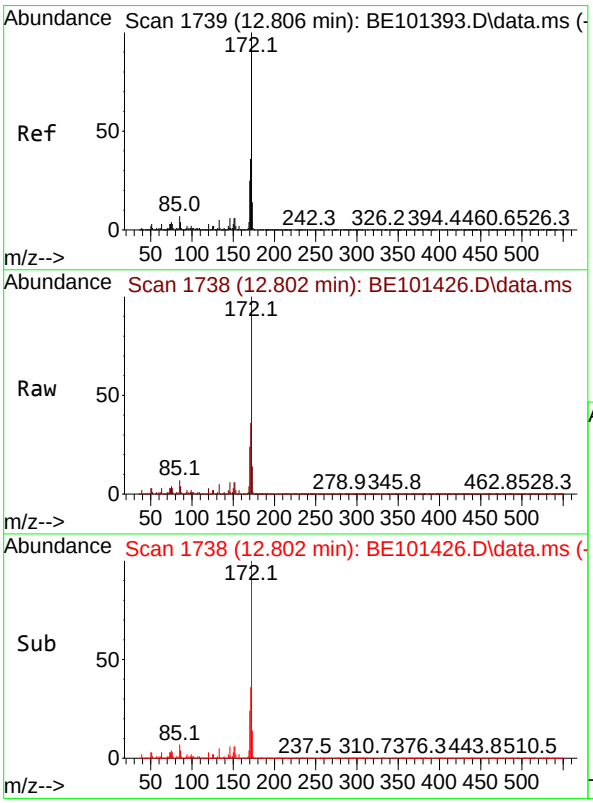
#42
2,4,6-Tribromophenol
Concen: 150.437 ng
RT: 15.687 min Scan# 2
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion:330 Resp: 850212

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.2	117.2
141	22.7	18.3	27.5

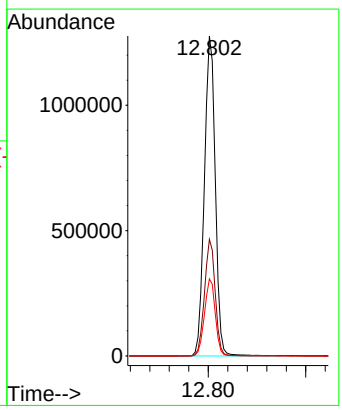


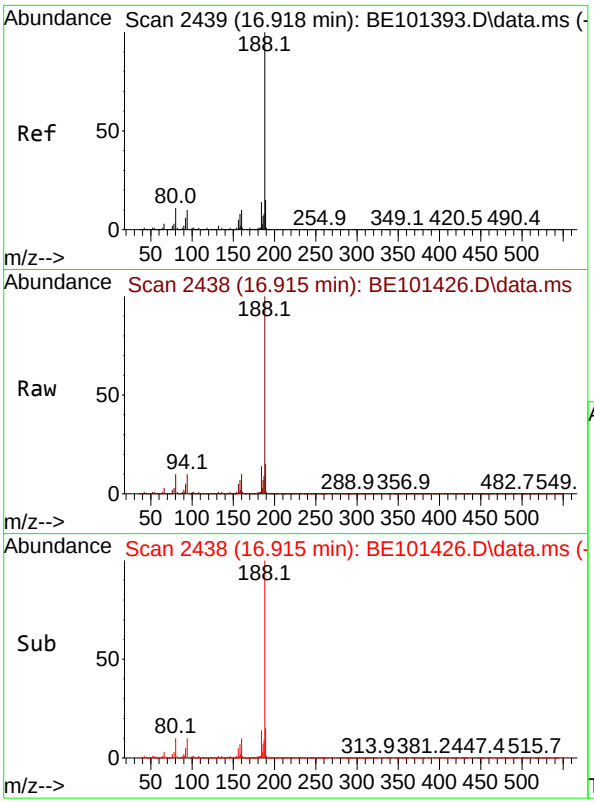


#45
2-Fluorobiphenyl
Concen: 103.692 ng
RT: 12.802 min Scan# 1738
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:172 Resp: 1974331

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	24.1	19.8	29.6



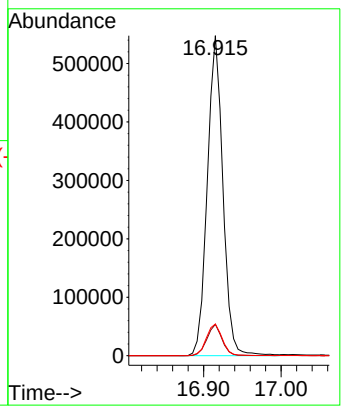


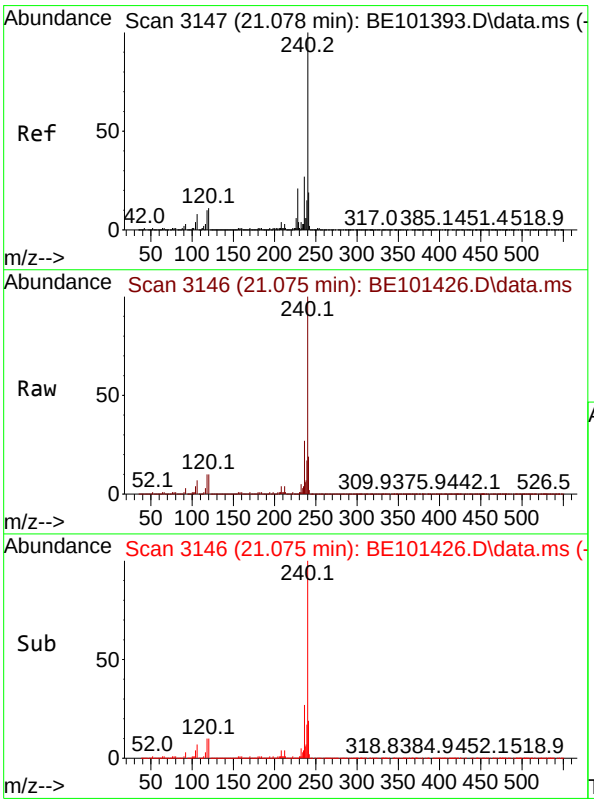
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.915 min Scan# 24
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion:188 Resp: 764639

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.8	11.8
80	9.9	8.6	12.8

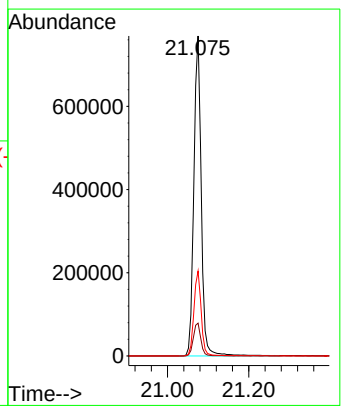


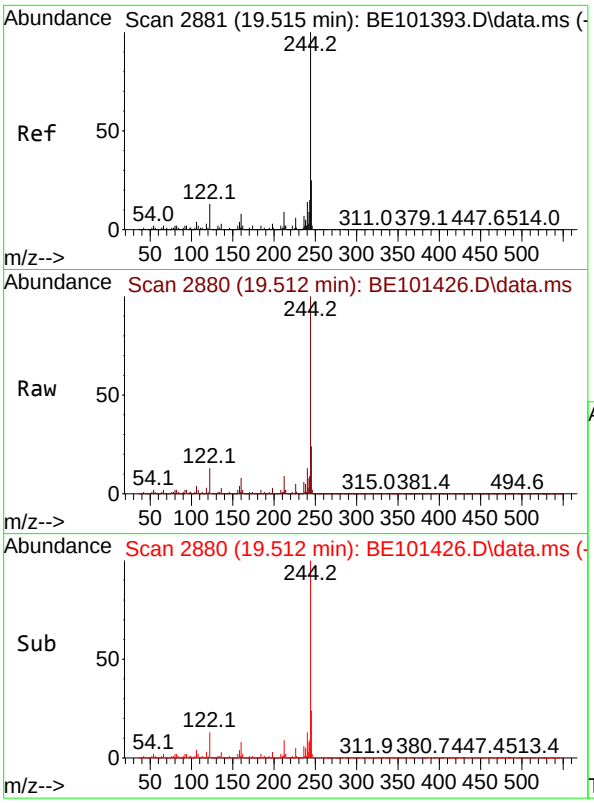


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.075 min Scan# 3146
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:240 Resp: 978042

Ion	Ratio	Lower	Upper
240	100		
120	10.3	9.0	13.4
236	26.5	21.4	32.0



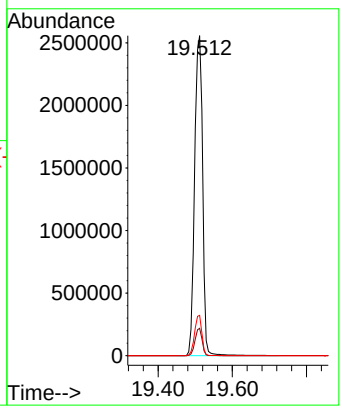


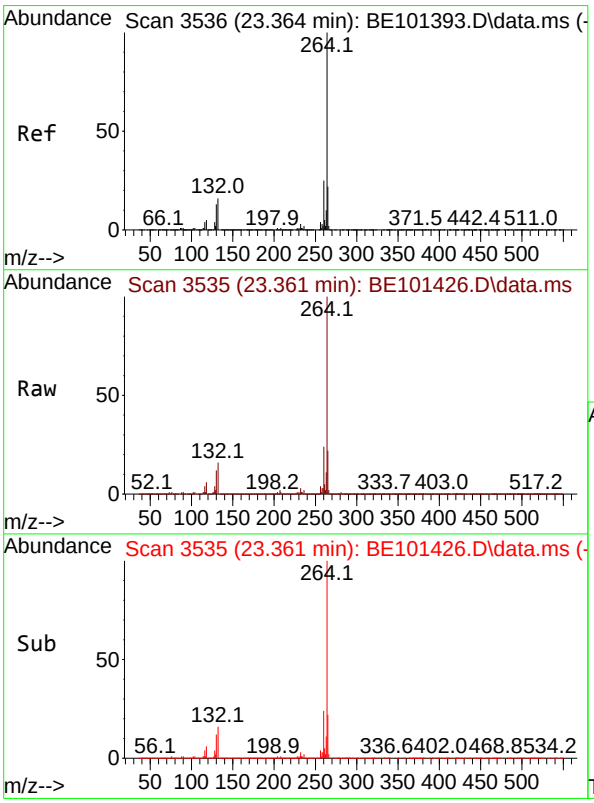
#79
Terphenyl-d14
Concen: 89.889 ng
RT: 19.512 min Scan# 2
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion:244 Resp: 3819837

Ion	Ratio	Lower	Upper
244	100		
212	8.6	7.2	10.8
122	12.6	10.4	15.6

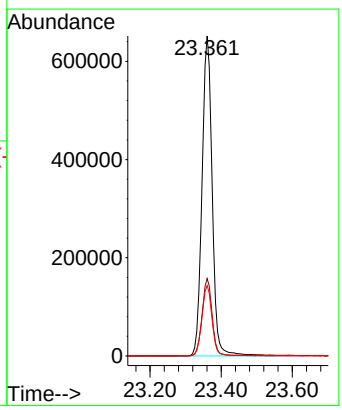




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.361 min Scan# 3535
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:264 Resp: 1302952

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.8	29.8
265	22.0	17.6	26.4



Sample Results: **BE101426.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BE101426.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.317	458	464	496	rBV	2087337	3291924	31.49%	8.061%
2	6.944	734	741	782	rBV	1934783	3476026	33.25%	8.511%
3	7.573	838	848	858	rBV	377109	626690	5.99%	1.535%
4	8.783	1045	1054	1078	rBV	1223310	2123328	20.31%	5.199%
5	10.340	1311	1319	1340	rBV	529149	937626	8.97%	2.296%
6	12.802	1730	1738	1759	rBV	3686589	5627324	53.83%	13.779%
7	14.177	1965	1972	1984	rBV	931398	1369332	13.10%	3.353%
8	15.687	2220	2229	2260	rBV	3326740	5202581	49.76%	12.739%
9	16.915	2431	2438	2452	rBV	1288833	1813390	17.35%	4.440%
10	19.512	2873	2880	2902	rBV	7487309	10454738	100.00%	25.599%
11	21.075	3140	3146	3164	rBV	2066648	2649913	25.35%	6.489%
12	23.361	3527	3535	3546	rBV	1667724	3266984	31.25%	7.999%

Sum of corrected areas: 40839856

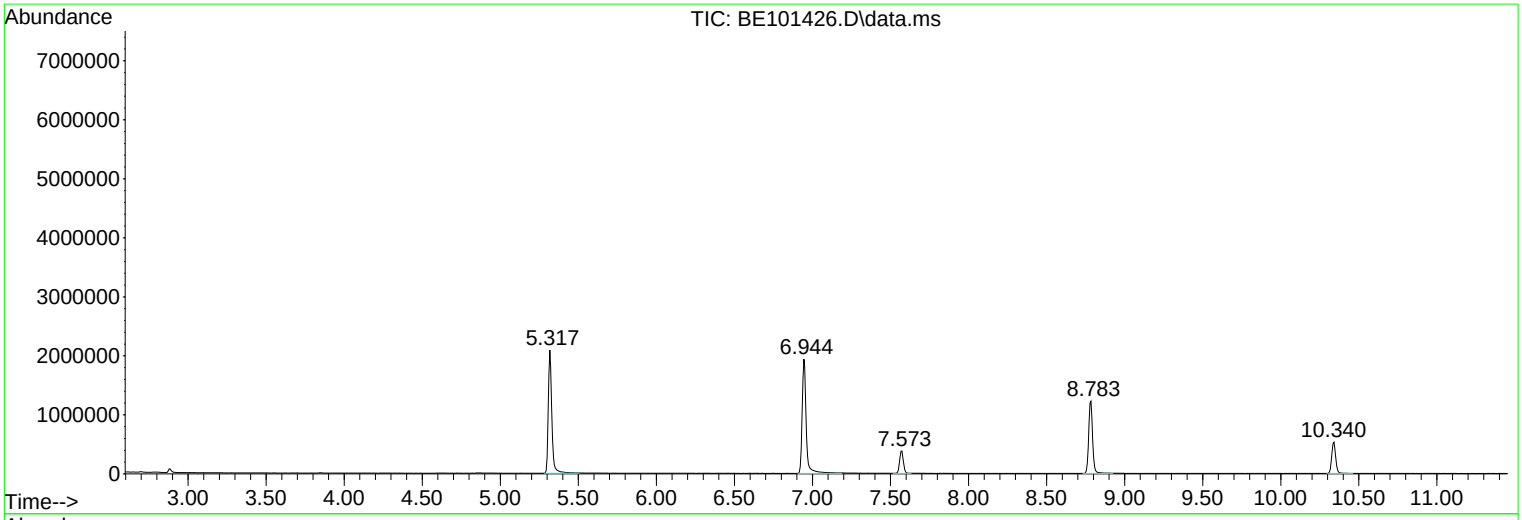
Sample Results: **BE101426.D**

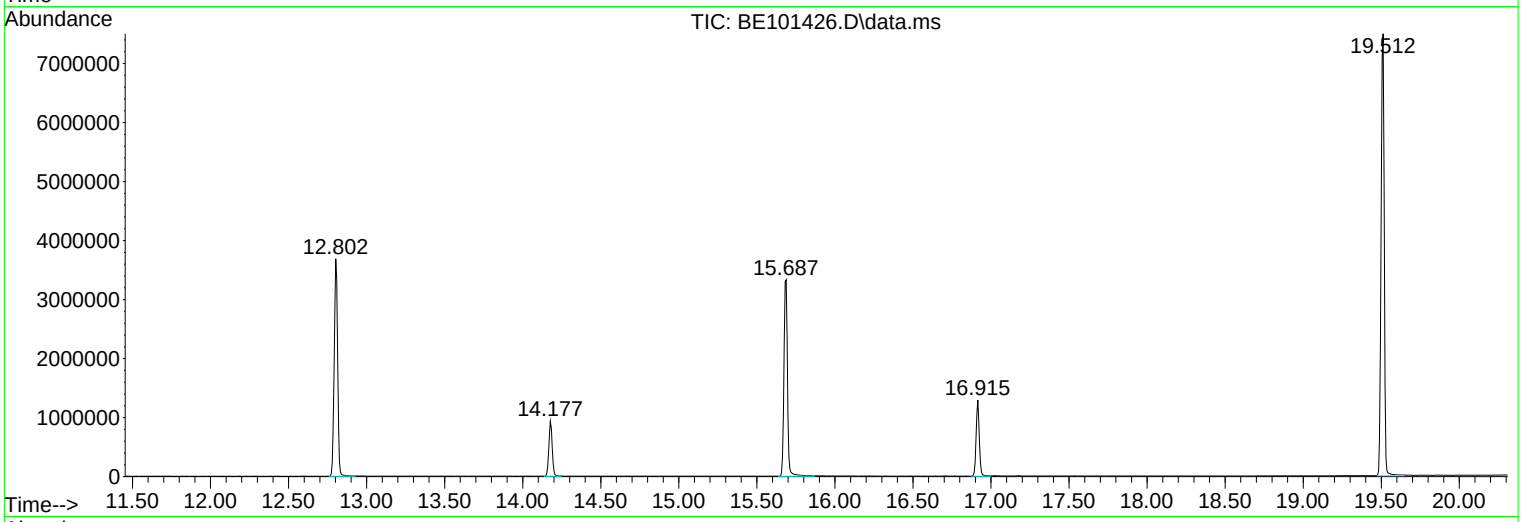
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

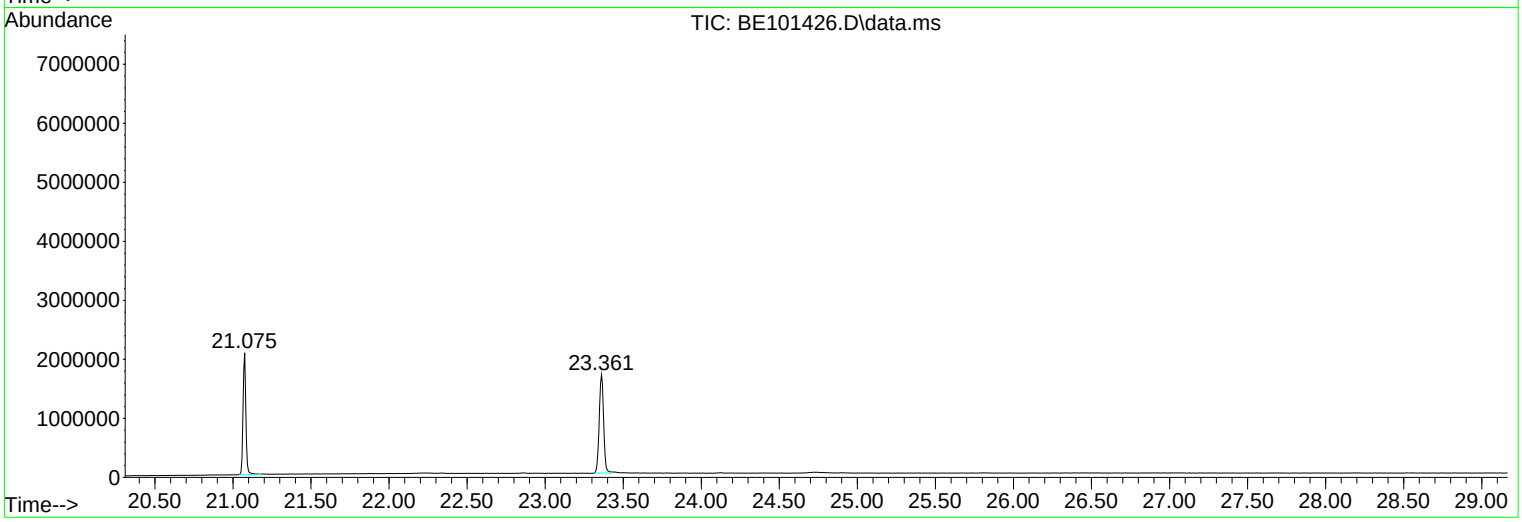
Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140102.D
Acq On : 29 Oct 2024 10:33
Operator : RC/JU
Sample : PB164461BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 11:35:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164461BS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	127430	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	500801	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	278385	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	513541	20.000	ng		0.00
76) Chrysene-d12	14.051	240	266065	20.000	ng		0.00
86) Perylene-d12	15.527	264	256361	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	993671	122.073	ng		0.02
7) Phenol-d6	6.516	99	1259140	119.434	ng		0.00
23) Nitrobenzene-d5	7.451	82	832307	92.111	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	375298	144.128	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1475257	87.582	ng		0.00
79) Terphenyl-d14	12.998	244	1640280	100.457	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.769	88	129062	34.006	ng		97
3) Pyridine	3.528	79	345549	36.732	ng		99
4) n-Nitrosodimethylamine	3.475	42	200636	39.696	ng		99
6) Aniline	6.551	93	373487	38.012	ng		100
8) 2-Chlorophenol	6.675	128	380367	45.709	ng		98
9) Benzaldehyde	6.440	77	75532	12.736	ng		97
10) Phenol	6.528	94	485856m	44.702	ng		
11) bis(2-Chloroethyl)ether	6.622	93	374078	44.529	ng		99
12) 1,3-Dichlorobenzene	6.828	146	411835	43.113	ng		99
13) 1,4-Dichlorobenzene	6.904	146	412401	43.213	ng		99
14) 1,2-Dichlorobenzene	7.057	146	399868	44.894	ng		99
15) Benzyl Alcohol	7.028	79	357866	46.276	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	631415	44.079	ng		98
17) 2-Methylphenol	7.140	107	318963	44.951	ng		98
18) Hexachloroethane	7.404	117	150509	44.226	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	279877	43.772	ng		96
20) 3+4-Methylphenols	7.293	107	390148	42.987	ng	#	76
22) Acetophenone	7.298	105	528314	43.071	ng		99
24) Nitrobenzene	7.469	77	428354	43.238	ng		99
25) Isophorone	7.710	82	767951	44.778	ng		99
26) 2-Nitrophenol	7.787	139	200360	53.609	ng		97
27) 2,4-Dimethylphenol	7.822	122	321436	51.579	ng		98
28) bis(2-Chloroethoxy)met...	7.916	93	456565	43.940	ng		100
29) 2,4-Dichlorophenol	8.028	162	320640	45.171	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	333493	42.459	ng		99
31) Naphthalene	8.192	128	1112457	43.071	ng		99
32) Benzoic acid	7.934	122	240344	44.218	ng		98
33) 4-Chloroaniline	8.234	127	146520	16.637	ng		99
34) Hexachlorobutadiene	8.310	225	217159	44.004	ng		99
35) Caprolactam	8.610	113	106047m	46.985	ng		
36) 4-Chloro-3-methylphenol	8.716	107	360311	45.842	ng		99
37) 2-Methylnaphthalene	8.886	142	710773	44.934	ng		100
38) 1-Methylnaphthalene	8.986	142	654008	42.141	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	336224	44.768	ng		99
41) Hexachlorocyclopentadiene	9.039	237	437928	167.579	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	248514	46.737	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140102.D
Acq On : 29 Oct 2024 10:33
Operator : RC/JU
Sample : PB164461BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 11:35:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164461BS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	253928	46.287	ng		98
46) 1,1'-Biphenyl	9.351	154	857279	44.236	ng		99
47) 2-Chloronaphthalene	9.375	162	685431	43.914	ng		100
48) 2-Nitroaniline	9.469	65	242126	50.720	ng		94
49) Acenaphthylene	9.792	152	1071550	47.486	ng		100
50) Dimethylphthalate	9.651	163	796125	45.913	ng		100
51) 2,6-Dinitrotoluene	9.710	165	177248	47.210	ng		98
52) Acenaphthene	9.963	154	750474	51.411	ng		100
53) 3-Nitroaniline	9.875	138	112113	28.957	ng		99
54) 2,4-Dinitrophenol	9.986	184	205710	127.641	ng	#	1
55) Dibenzofuran	10.133	168	949974	45.358	ng		100
56) 4-Nitrophenol	10.034	139	297830	99.985	ng		96
57) 2,4-Dinitrotoluene	10.116	165	245903	53.260	ng		98
58) Fluorene	10.475	166	725048	45.452	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	214271	49.823	ng		98
60) Diethylphthalate	10.351	149	779453	45.782	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	371429	46.107	ng		99
62) 4-Nitroaniline	10.492	138	183008	50.047	ng		98
63) Azobenzene	10.628	77	805434	44.623	ng		99
65) 4,6-Dinitro-2-methylph...	10.522	198	141178	67.397	ng		93
66) n-Nitrosodiphenylamine	10.586	169	677802	44.099	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	235997	44.608	ng		97
68) Hexachlorobenzene	11.022	284	264678	44.484	ng		100
69) Atrazine	11.110	200	227268	54.585	ng		98
70) Pentachlorophenol	11.216	266	333392	92.325	ng		99
71) Phenanthrene	11.439	178	1081706	44.593	ng		100
72) Anthracene	11.492	178	1118559	47.261	ng		100
73) Carbazole	11.645	167	980816	44.559	ng		100
74) Di-n-butylphthalate	11.975	149	1192125	46.878	ng		99
75) Fluoranthene	12.627	202	1132991	46.202	ng		99
77) Benzidine	12.745	184	179073	40.931	ng		99
78) Pyrene	12.857	202	1137589	48.846	ng		100
80) Butylbenzylphthalate	13.469	149	402746	57.681	ng		100
81) Benzo(a)anthracene	14.039	228	841427	48.581	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	157179	31.125	ng		98
83) Chrysene	14.080	228	734528	46.254	ng		99
84) Bis(2-ethylhexyl)phtha...	14.027	149	461897	58.963	ng		100
85) Di-n-octyl phthalate	14.639	149	650652	45.664	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	815498	49.447	ng		98
88) Benzo(b)fluoranthene	15.098	252	697670	44.675	ng		100
89) Benzo(k)fluoranthene	15.127	252	656050	48.712	ng		100
90) Benzo(a)pyrene	15.468	252	648512	50.469	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	662425	48.147	ng		99
92) Benzo(g,h,i)perylene	17.486	276	627022	45.626	ng		99

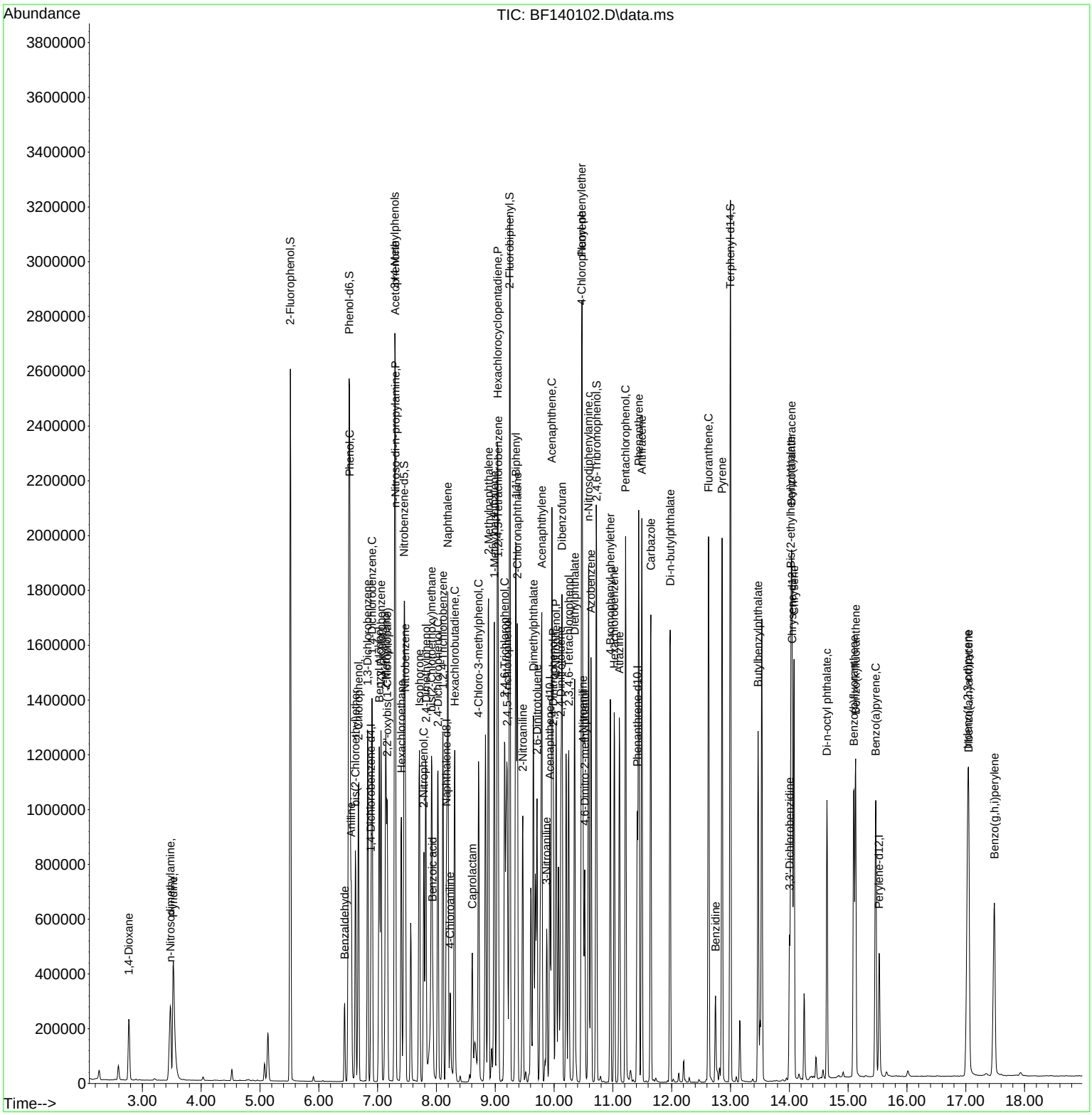
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140102.D
Acq On : 29 Oct 2024 10:33
Operator : RC/JU
Sample : PB164461BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 11:35:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164461BS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101427.D
Acq On : 31 Oct 2024 11:33
Operator : RC/JU
Sample : PB164533BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 31 14:12:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.571	152	115147	20.000	ng		0.00
21) Naphthalene-d8	10.339	136	538934	20.000	ng		0.00
39) Acenaphthene-d10	14.181	164	360623	20.000	ng		0.00
64) Phenanthrene-d10	16.919	188	814107	20.000	ng		0.00
76) Chrysene-d12	21.079	240	960075	20.000	ng		0.00
86) Perylene-d12	23.365	264	1281356	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.321	112	1009490	153.656	ng		0.00
7) Phenol-d6	6.949	99	1263770	138.728	ng		0.00
23) Nitrobenzene-d5	8.782	82	782786	91.228	ng		0.00
42) 2,4,6-Tribromophenol	15.685	330	874230	138.315	ng		0.00
45) 2-Fluorobiphenyl	12.806	172	2012690	94.519	ng		0.00
79) Terphenyl-d14	19.510	244	3621248	86.811	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.206	88	90954	37.119	ng		99
3) Pyridine	3.635	79	258700m	37.316	ng		
4) n-Nitrosodimethylamine	3.553	42	127114	47.389	ng		97
6) Aniline	7.007	93	455197	65.200	ng		99
8) 2-Chlorophenol	7.213	128	408829	51.883	ng		99
9) Benzaldehyde	6.784	77	49809	11.326	ng		98
10) Phenol	6.972	94	530175	53.639	ng		99
11) bis(2-Chloroethyl)ether	7.037	93	362684m	44.729	ng		
12) 1,3-Dichlorobenzene	7.460	146	384380	45.238	ng		98
13) 1,4-Dichlorobenzene	7.607	146	397604	45.824	ng		99
14) 1,2-Dichlorobenzene	7.936	146	387802	45.660	ng		99
15) Benzyl Alcohol	7.906	79	269521	49.634	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.071	45	502340	49.229	ng		99
17) 2-Methylphenol	8.153	107	333134	49.798	ng		99
18) Hexachloroethane	8.629	117	134034	47.303	ng		96
19) n-Nitroso-di-n-propyla...	8.370	70	285079	47.159	ng		99
20) 3+4-Methylphenols	8.488	107	453395	49.099	ng		97
22) Acetophenone	8.423	105	572159	46.756	ng	#	98
24) Nitrobenzene	8.823	77	419005	45.880	ng		99
25) Isophorone	9.275	82	774226	46.239	ng		99
26) 2-Nitrophenol	9.510	139	223987	50.744	ng		98
27) 2,4-Dimethylphenol	9.628	122	335924	60.479	ng		99
28) bis(2-Chloroethoxy)met...	9.775	93	485059	47.769	ng		99
29) 2,4-Dichlorophenol	10.057	162	390825	50.861	ng		100
30) 1,2,4-Trichlorobenzene	10.186	180	377737	45.125	ng		99
31) Naphthalene	10.386	128	1257982	45.805	ng		100
32) Benzoic acid	9.880	122	167435	32.504	ng		98
33) 4-Chloroaniline	10.609	127	316552	33.147	ng		99
34) Hexachlorobutadiene	10.638	225	230319	46.483	ng		98
35) Caprolactam	11.390	113	128167m	43.513	ng		
36) 4-Chloro-3-methylphenol	11.784	107	394334	45.071	ng		99
37) 2-Methylnaphthalene	11.978	142	908509	45.916	ng		99
38) 1-Methylnaphthalene	12.207	142	856823	43.389	ng		98
40) 1,2,4,5-Tetrachloroben...	12.336	216	444363	49.085	ng		99
41) Hexachlorocyclopentadiene	12.319	237	596352	199.461	ng		100
43) 2,4,6-Trichlorophenol	12.654	196	324708	52.029	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101427.D
Acq On : 31 Oct 2024 11:33
Operator : RC/JU
Sample : PB164533BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 31 14:12:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.754	196	355742	49.776	ng	99
46) 1,1'-Biphenyl	13.006	154	1182884	47.877	ng	99
47) 2-Chloronaphthalene	13.053	162	923137	47.292	ng	99
48) 2-Nitroaniline	13.382	65	272113	51.800	ng	97
49) Acenaphthylene	13.911	152	1478111	51.205	ng	100
50) Dimethylphthalate	13.688	163	1213853	47.686	ng	99
51) 2,6-Dinitrotoluene	13.823	165	270879	46.092	ng	99
52) Acenaphthene	14.246	154	911505	48.358	ng	100
53) 3-Nitroaniline	14.234	138	217935	37.293	ng	97
54) 2,4-Dinitrophenol	14.369	184	343642	82.133	ng	99
55) Dibenzofuran	14.587	168	1446122	48.135	ng	99
56) 4-Nitrophenol	14.651	139	542617	101.394	ng	98
57) 2,4-Dinitrotoluene	14.604	165	393205	48.598	ng	98
58) Fluorene	15.221	166	1185528	47.171	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.851	232	335333	50.783	ng	99
60) Diethylphthalate	15.016	149	1261781	47.390	ng	99
61) 4-Chlorophenyl-phenyle...	15.210	204	583149	46.759	ng	99
62) 4-Nitroaniline	15.421	138	305475	46.976	ng	99
63) Azobenzene	15.509	77	1098852	48.013	ng	99
65) 4,6-Dinitro-2-methylph...	15.345	198	230076	48.095	ng	99
66) n-Nitrosodiphenylamine	15.462	169	1064834	49.322	ng	99
67) 4-Bromophenyl-phenylether	16.097	248	405337	47.332	ng	98
68) Hexachlorobenzene	16.203	284	526190	46.877	ng	99
69) Atrazine	16.396	200	405057	61.198	ng	100
70) Pentachlorophenol	16.608	266	666674	103.180	ng	100
71) Phenanthrene	16.960	178	1937501	49.707	ng	99
72) Anthracene	17.043	178	2000720	52.567	ng	99
73) Carbazole	17.378	167	1893275	48.616	ng	99
74) Di-n-butylphthalate	17.824	149	2185822	50.984	ng	99
75) Fluoranthene	18.964	202	2314033	48.879	ng	98
77) Benzidine	19.217	184	1110760	91.158	ng	100
78) Pyrene	19.334	202	2492788	47.215	ng	98
80) Butylbenzylphthalate	20.180	149	1135545	49.061	ng	97
81) Benzo(a)anthracene	21.056	228	2702743	50.086	ng	100
82) 3,3'-Dichlorobenzidine	21.032	252	849155	40.171	ng	100
83) Chrysene	21.114	228	2590728	49.655	ng	99
84) Bis(2-ethylhexyl)phtha...	20.885	149	1621702	52.742	ng	100
85) Di-n-octyl phthalate	21.731	149	2813354	55.748	ng	100
87) Indeno(1,2,3-cd)pyrene	25.697	276	4383307	51.115	ng	100
88) Benzo(b)fluoranthene	22.654	252	3161649	47.347	ng	99
89) Benzo(k)fluoranthene	22.701	252	3180470	50.980	ng	99
90) Benzo(a)pyrene	23.259	252	3090144	52.914	ng	100
91) Dibenzo(a,h)anthracene	25.691	278	3640170	51.372	ng	99
92) Benzo(g,h,i)perylene	26.443	276	3347336	45.848	ng	100

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

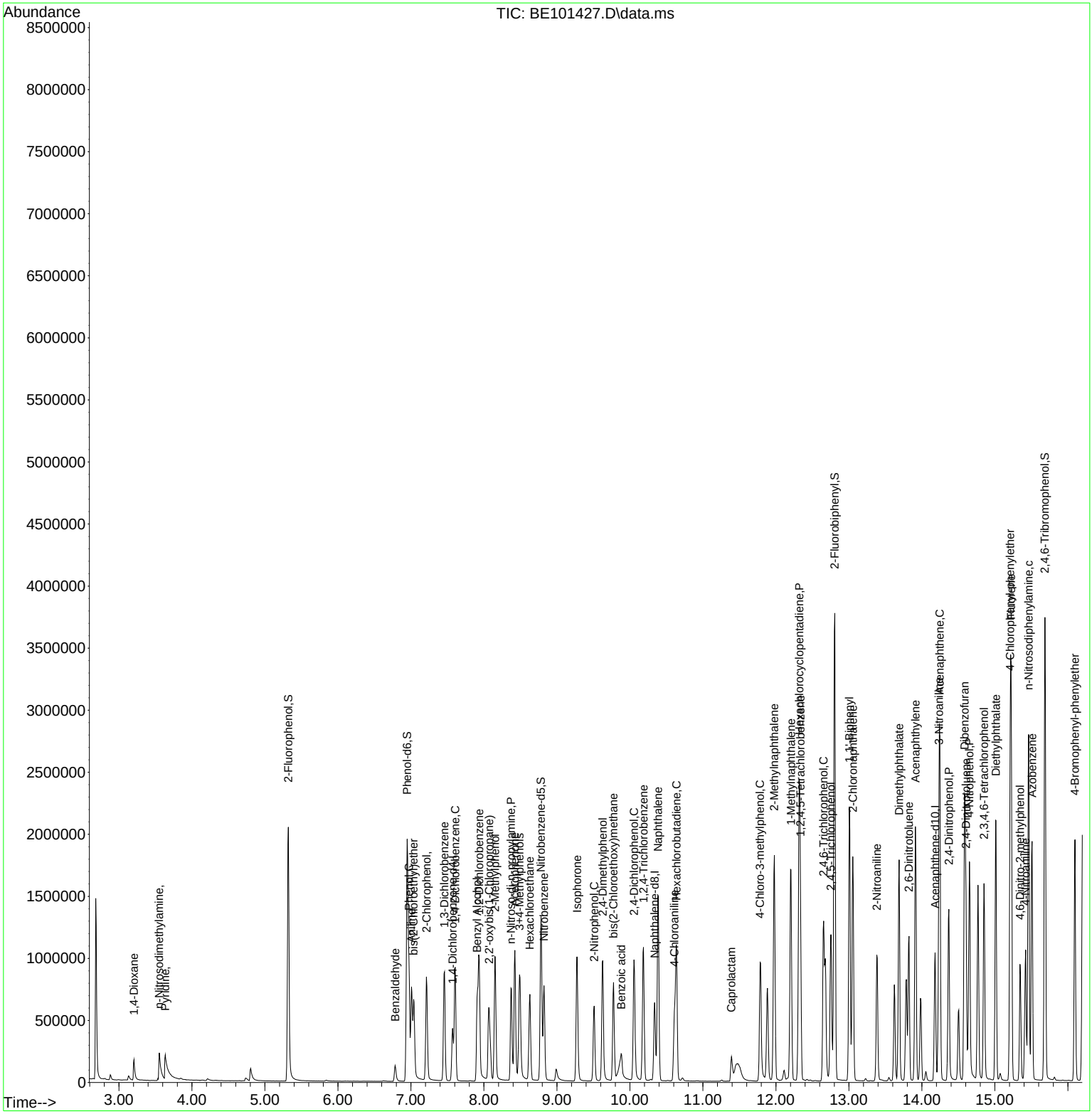
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Data File : BE101427.D
Acq On : 31 Oct 2024 11:33
Operator : RC/JU
Sample : PB164533BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 31 14:12:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



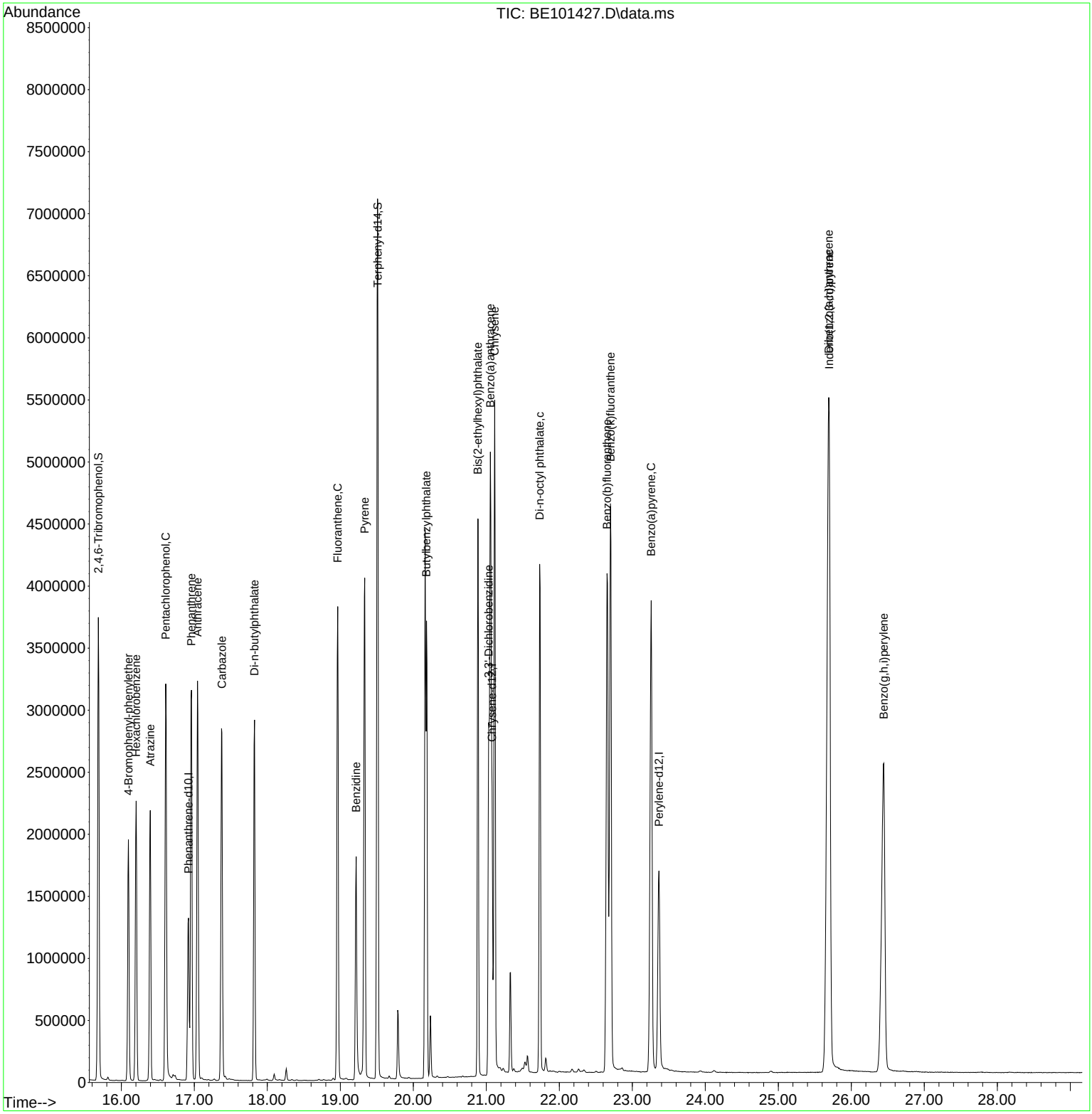
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Data File : BE101427.D
Acq On : 31 Oct 2024 11:33
Operator : RC/JU
Sample : PB164533BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 31 14:12:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101428.D
Acq On : 31 Oct 2024 12:09
Operator : RC/JU
Sample : PB164533BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 14:12:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.569	152	113034	20.000	ng		0.00
21) Naphthalene-d8	10.337	136	526465	20.000	ng		0.00
39) Acenaphthene-d10	14.179	164	360052	20.000	ng		0.00
64) Phenanthrene-d10	16.917	188	812601	20.000	ng		0.00
76) Chrysene-d12	21.077	240	969385	20.000	ng		0.00
86) Perylene-d12	23.363	264	1285878	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.319	112	994752	154.243	ng		0.00
7) Phenol-d6	6.947	99	1252408	140.050	ng		0.00
23) Nitrobenzene-d5	8.780	82	777696	92.782	ng		0.00
42) 2,4,6-Tribromophenol	15.689	330	876585	138.908	ng		0.00
45) 2-Fluorobiphenyl	12.805	172	2001748	94.154	ng		0.00
79) Terphenyl-d14	19.508	244	3640711	86.439	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.204	88	93716	38.961	ng		100
3) Pyridine	3.633	79	251245m	36.919	ng		
4) n-Nitrosodimethylamine	3.551	42	121055	45.974	ng		96
6) Aniline	7.011	93	425404	62.072	ng		99
8) 2-Chlorophenol	7.217	128	400854	51.822	ng		100
9) Benzaldehyde	6.782	77	49042	11.360	ng		96
10) Phenol	6.976	94	520219	53.615	ng		99
11) bis(2-Chloroethyl)ether	7.041	93	375829m	47.216	ng		
12) 1,3-Dichlorobenzene	7.458	146	376868	45.183	ng		99
13) 1,4-Dichlorobenzene	7.605	146	388628	45.627	ng		99
14) 1,2-Dichlorobenzene	7.934	146	379990	45.577	ng		100
15) Benzyl Alcohol	7.910	79	268752	50.418	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.069	45	486821	48.600	ng		100
17) 2-Methylphenol	8.151	107	327131	49.815	ng		99
18) Hexachloroethane	8.627	117	130778	47.017	ng		99
19) n-Nitroso-di-n-propyla...	8.374	70	281786	47.485	ng		99
20) 3+4-Methylphenols	8.492	107	448794	49.509	ng		99
22) Acetophenone	8.421	105	565499	47.307	ng	#	98
24) Nitrobenzene	8.821	77	411515	46.127	ng		100
25) Isophorone	9.273	82	770364	47.098	ng		99
26) 2-Nitrophenol	9.508	139	220857	51.220	ng		100
27) 2,4-Dimethylphenol	9.626	122	333518	61.468	ng		99
28) bis(2-Chloroethoxy)met...	9.773	93	479894	48.380	ng		99
29) 2,4-Dichlorophenol	10.055	162	390029	51.960	ng		99
30) 1,2,4-Trichlorobenzene	10.184	180	367626	44.957	ng		99
31) Naphthalene	10.390	128	1230580	45.869	ng		100
32) Benzoic acid	9.884	122	183326	35.439	ng		98
33) 4-Chloroaniline	10.613	127	324797	34.816	ng		98
34) Hexachlorobutadiene	10.636	225	222189	45.905	ng		100
35) Caprolactam	11.389	113	133210m	46.296	ng		
36) 4-Chloro-3-methylphenol	11.788	107	398618	46.640	ng		99
37) 2-Methylnaphthalene	11.976	142	902361	46.686	ng		99
38) 1-Methylnaphthalene	12.205	142	849167	44.020	ng		98
40) 1,2,4,5-Tetrachloroben...	12.334	216	435778	48.213	ng		99
41) Hexachlorocyclopentadiene	12.317	237	584394	195.771	ng		97
43) 2,4,6-Trichlorophenol	12.652	196	323171	51.865	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101428.D
Acq On : 31 Oct 2024 12:09
Operator : RC/JU
Sample : PB164533BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 14:12:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.752	196	356904	50.018	ng	98
46) 1,1'-Biphenyl	13.010	154	1175277	47.644	ng	100
47) 2-Chloronaphthalene	13.051	162	910845	46.737	ng	99
48) 2-Nitroaniline	13.386	65	272277	51.913	ng	96
49) Acenaphthylene	13.915	152	1493689	51.827	ng	99
50) Dimethylphthalate	13.686	163	1227602	48.302	ng	100
51) 2,6-Dinitrotoluene	13.821	165	273864	46.674	ng	99
52) Acenaphthene	14.244	154	903802	48.025	ng	99
53) 3-Nitroaniline	14.232	138	216452	37.098	ng	98
54) 2,4-Dinitrophenol	14.367	184	354149	84.597	ng	98
55) Dibenzofuran	14.585	168	1444875	48.170	ng	99
56) 4-Nitrophenol	14.655	139	560174	104.840	ng	98
57) 2,4-Dinitrotoluene	14.608	165	401525	49.705	ng	96
58) Fluorene	15.225	166	1190269	47.435	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.855	232	339421	51.484	ng	100
60) Diethylphthalate	15.014	149	1264805	47.579	ng	99
61) 4-Chlorophenyl-phenyle...	15.213	204	586167	47.075	ng	98
62) 4-Nitroaniline	15.419	138	306026	47.135	ng	99
63) Azobenzene	15.507	77	1109474	48.554	ng	99
65) 4,6-Dinitro-2-methylph...	15.349	198	235548	49.330	ng	99
66) n-Nitrosodiphenylamine	15.460	169	1070275	49.666	ng	100
67) 4-Bromophenyl-phenylether	16.095	248	407578	47.682	ng	99
68) Hexachlorobenzene	16.201	284	525219	46.877	ng	100
69) Atrazine	16.394	200	405310	61.350	ng	99
70) Pentachlorophenol	16.612	266	679935	105.427	ng	100
71) Phenanthrene	16.958	178	1946192	50.022	ng	99
72) Anthracene	17.047	178	2009903	52.906	ng	99
73) Carbazole	17.376	167	1907689	49.077	ng	99
74) Di-n-butylphthalate	17.822	149	2204042	51.505	ng	99
75) Fluoranthene	18.962	202	2305436	48.787	ng	99
77) Benzidine	19.215	184	1168127	94.946	ng	100
78) Pyrene	19.332	202	2476632	46.458	ng	99
80) Butylbenzylphthalate	20.184	149	1155552	49.446	ng	100
81) Benzo(a)anthracene	21.054	228	2718986	49.903	ng	99
82) 3,3'-Dichlorobenzidine	21.036	252	868485	40.690	ng	99
83) Chrysene	21.112	228	2584025	49.051	ng	99
84) Bis(2-ethylhexyl)phtha...	20.883	149	1640604	52.845	ng	100
85) Di-n-octyl phthalate	21.735	149	2812776	55.201	ng	100
87) Indeno(1,2,3-cd)pyrene	25.695	276	4395609	51.078	ng	100
88) Benzo(b)fluoranthene	22.658	252	3130767	46.720	ng	99
89) Benzo(k)fluoranthene	22.705	252	3200047	51.114	ng	98
90) Benzo(a)pyrene	23.257	252	3077320	52.509	ng	99
91) Dibenzo(a,h)anthracene	25.689	278	3625997	50.992	ng	99
92) Benzo(g,h,i)perylene	26.441	276	3342524	45.621	ng	100

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

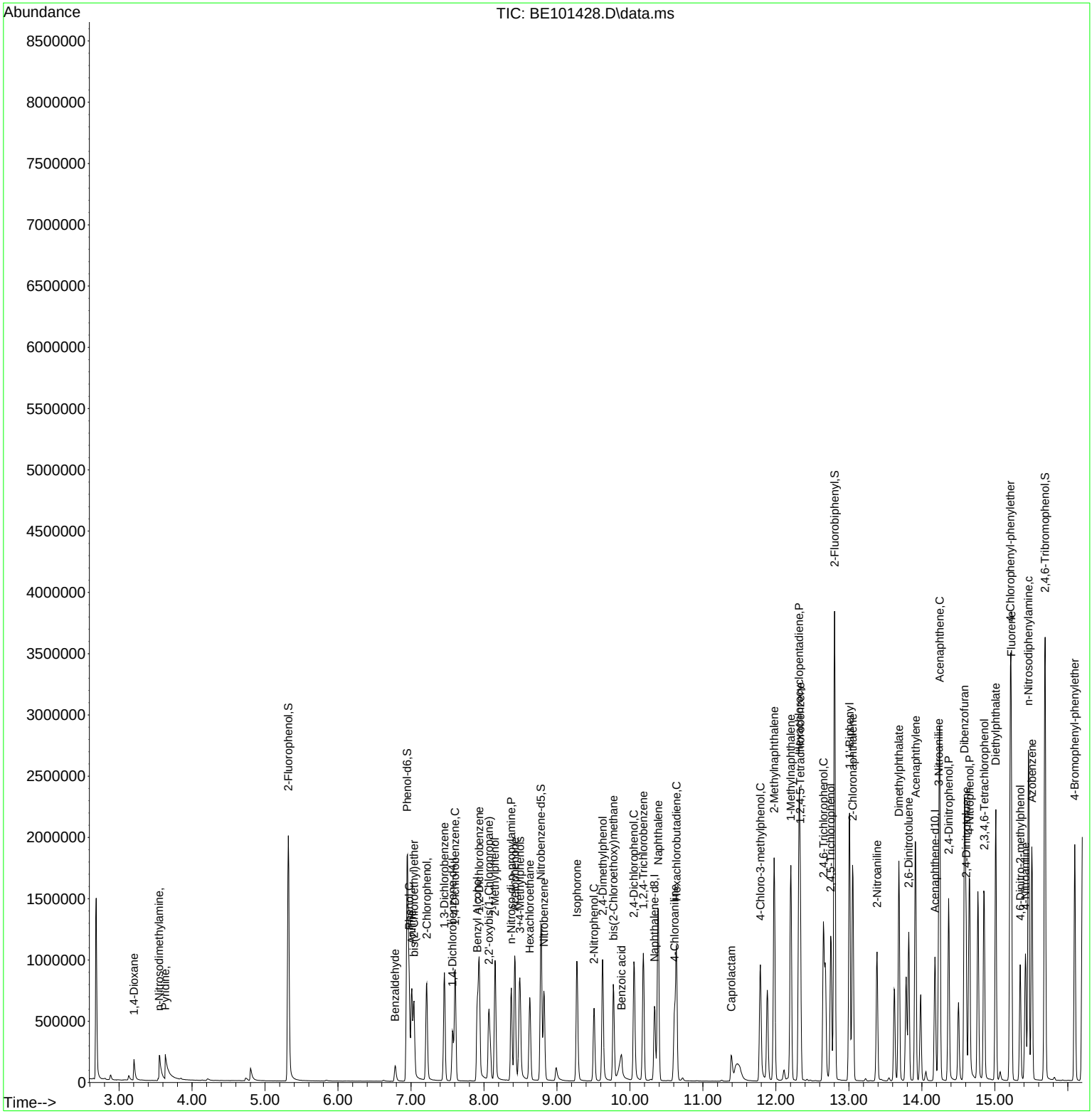
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Data File : BE101428.D
Acq On : 31 Oct 2024 12:09
Operator : RC/JU
Sample : PB164533BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 14:12:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



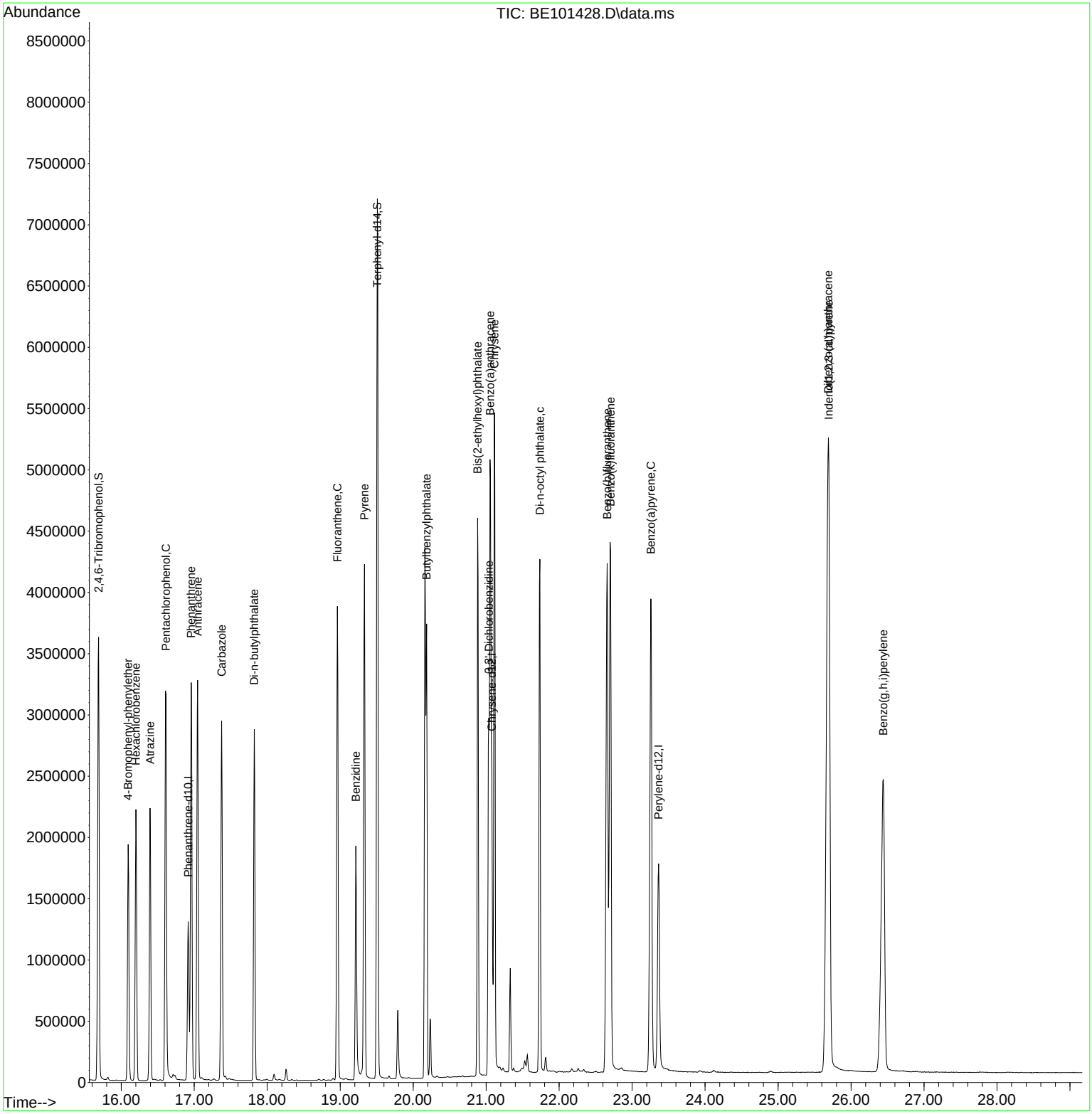
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Data File : BE101428.D
Acq On : 31 Oct 2024 12:09
Operator : RC/JU
Sample : PB164533BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 14:12:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140105.D
Acq On : 29 Oct 2024 12:02
Operator : RC/JU
Sample : P4561-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 12:37:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BP-F-18MS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	119078	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	468695	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	258838	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	443678	20.000	ng		0.00
76) Chrysene-d12	14.051	240	213800	20.000	ng		0.00
86) Perylene-d12	15.527	264	269959	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	663296	87.202	ng		0.01
7) Phenol-d6	6.516	99	889612	90.302	ng		0.00
23) Nitrobenzene-d5	7.451	82	564781	66.786	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	252807	104.419	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1028299	65.658	ng		0.00
79) Terphenyl-d14	12.992	244	869424	66.263	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.752	88	135326	38.158	ng		98
3) Pyridine	3.510	79	350246	39.843	ng		99
4) n-Nitrosodimethylamine	3.463	42	196737	41.655	ng	#	98
6) Aniline	6.551	93	287445	31.307	ng		99
8) 2-Chlorophenol	6.675	128	367128	47.212	ng		98
9) Benzaldehyde	6.440	77	68731	12.402	ng		98
10) Phenol	6.528	94	475437m	46.811	ng		
11) bis(2-Chloroethyl)ether	6.622	93	364756	46.464	ng		99
12) 1,3-Dichlorobenzene	6.834	146	397732	44.557	ng		99
13) 1,4-Dichlorobenzene	6.910	146	401159	44.983	ng		99
14) 1,2-Dichlorobenzene	7.057	146	386184	46.399	ng		98
15) Benzyl Alcohol	7.028	79	344664	47.694	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	607117	45.356	ng		98
17) 2-Methylphenol	7.140	107	307900	46.436	ng		98
18) Hexachloroethane	7.404	117	148095	46.569	ng		96
19) n-Nitroso-di-n-propyla...	7.298	70	276260	46.236	ng		97
20) 3+4-Methylphenols	7.287	107	381132	44.939	ng	#	90
22) Acetophenone	7.298	105	506664	44.135	ng		99
24) Nitrobenzene	7.469	77	414883	44.747	ng		100
25) Isophorone	7.710	82	741496	46.197	ng		99
26) 2-Nitrophenol	7.787	139	192444	55.018	ng		98
27) 2,4-Dimethylphenol	7.816	122	306717	52.588	ng		97
28) bis(2-Chloroethoxy)met...	7.916	93	441117	45.361	ng		100
29) 2,4-Dichlorophenol	8.028	162	306470	46.132	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	322636	43.891	ng		99
31) Naphthalene	8.192	128	1073825	44.423	ng		100
32) Benzoic acid	7.934	122	236255	46.443	ng		99
33) 4-Chloroaniline	8.239	127	98478	11.948	ng		98
34) Hexachlorobutadiene	8.310	225	209194	45.293	ng		99
35) Caprolactam	8.610	113	100372m	47.517	ng		
36) 4-Chloro-3-methylphenol	8.716	107	345453	46.962	ng		100
37) 2-Methylnaphthalene	8.886	142	681541	46.037	ng		100
38) 1-Methylnaphthalene	8.981	142	635082	43.725	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	325431	46.603	ng		99
41) Hexachlorocyclopentadiene	9.039	237	407976	167.908	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	233871	47.305	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140105.D
Acq On : 29 Oct 2024 12:02
Operator : RC/JU
Sample : P4561-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 12:37:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BP-F-18MS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	238739	46.804	ng		98
46) 1,1'-Biphenyl	9.345	154	821944	45.616	ng		100
47) 2-Chloronaphthalene	9.375	162	655768	45.186	ng		99
48) 2-Nitroaniline	9.469	65	227765	51.314	ng		95
49) Acenaphthylene	9.792	152	1023418	48.778	ng		100
50) Dimethylphthalate	9.651	163	775588	48.106	ng		100
51) 2,6-Dinitrotoluene	9.710	165	169010	48.415	ng		98
52) Acenaphthene	9.963	154	717149	52.838	ng		99
53) 3-Nitroaniline	9.875	138	93290	25.915	ng		100
54) 2,4-Dinitrophenol	9.986	184	201945	134.403	ng	#	1
55) Dibenzofuran	10.133	168	904160	46.431	ng		100
56) 4-Nitrophenol	10.033	139	272837	98.511	ng		95
57) 2,4-Dinitrotoluene	10.116	165	227892	53.087	ng		98
58) Fluorene	10.475	166	681871	45.973	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	194795m	48.715	ng		
60) Diethylphthalate	10.345	149	750506	47.411	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	348259	46.495	ng		99
62) 4-Nitroaniline	10.492	138	163027	47.949	ng		97
63) Azobenzene	10.628	77	893808	53.259	ng		95
65) 4,6-Dinitro-2-methylph...	10.522	198	131332	72.569	ng		93
66) n-Nitrosodiphenylamine	10.586	169	632125	47.603	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	221899	48.548	ng		97
68) Hexachlorobenzene	11.022	284	242705	47.214	ng		99
69) Atrazine	11.110	200	200780	55.817	ng		99
70) Pentachlorophenol	11.216	266	289848	92.905	ng		99
71) Phenanthrene	11.439	178	973007	46.428	ng		100
72) Anthracene	11.492	178	987770	48.307	ng		100
73) Carbazole	11.645	167	822131	43.231	ng		99
74) Di-n-butylphthalate	11.969	149	1066878	48.558	ng		100
75) Fluoranthene	12.627	202	852694	40.247	ng		100
77) Benzidine	12.745	184	177069	50.367	ng		99
78) Pyrene	12.857	202	842496	45.018	ng		99
80) Butylbenzylphthalate	13.469	149	318277	56.727	ng		100
81) Benzo(a)anthracene	14.039	228	646882	46.479	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	121036	29.827	ng		97
83) Chrysene	14.080	228	628880	49.282	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	397598	63.162	ng		100
85) Di-n-octyl phthalate	14.639	149	654252	57.142	ng		97
87) Indeno(1,2,3-cd)pyrene	17.027	276	740606	42.644	ng		98
88) Benzo(b)fluoranthene	15.098	252	726493	44.178	ng		99
89) Benzo(k)fluoranthene	15.127	252	663067	46.753	ng		99
90) Benzo(a)pyrene	15.468	252	681796	50.387	ng		100
91) Dibenzo(a,h)anthracene	17.045	278	619598	42.766	ng		99
92) Benzo(g,h,i)perylene	17.480	276	514347	35.542	ng		99

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

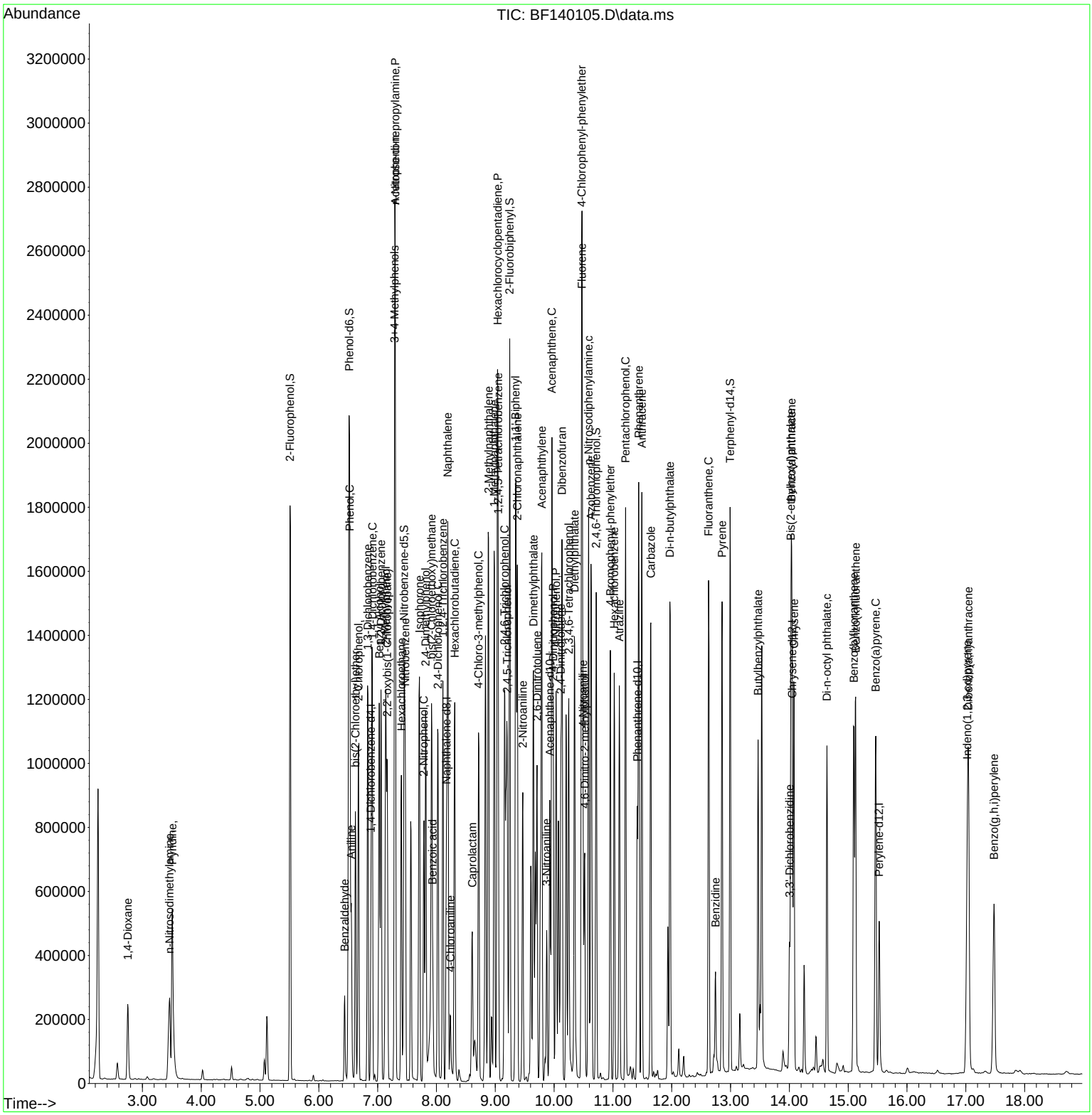
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140105.D
Acq On : 29 Oct 2024 12:02
Operator : RC/JU
Sample : P4561-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 12:37:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BP-F-18MS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140106.D
Acq On : 29 Oct 2024 12:30
Operator : RC/JU
Sample : P4561-05MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 29 12:59:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BP-F-18MSD

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	121800	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	465155	20.000	ng		0.00
39) Acenaphthene-d10	9.927	164	256664	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	439821	20.000	ng		0.00
76) Chrysene-d12	14.051	240	211408	20.000	ng		0.00
86) Perylene-d12	15.527	264	270997	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	656615	84.394	ng		0.01
7) Phenol-d6	6.516	99	877396	87.071	ng		0.00
23) Nitrobenzene-d5	7.451	82	559285	66.639	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	247838	103.233	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1005847	64.768	ng		0.00
79) Terphenyl-d14	12.992	244	839676	64.720	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.751	88	134597	37.104	ng		98
3) Pyridine	3.504	79	353874	39.356	ng		99
4) n-Nitrosodimethylamine	3.463	42	191536	39.648	ng	#	98
6) Aniline	6.551	93	290433	30.926	ng		99
8) 2-Chlorophenol	6.675	128	362464	45.571	ng		98
9) Benzaldehyde	6.439	77	66947	11.810	ng		96
10) Phenol	6.528	94	473946m	45.621	ng		
11) bis(2-Chloroethyl)ether	6.622	93	359328	44.750	ng		99
12) 1,3-Dichlorobenzene	6.834	146	391824	42.914	ng		99
13) 1,4-Dichlorobenzene	6.910	146	398892	43.729	ng		99
14) 1,2-Dichlorobenzene	7.057	146	382664	44.949	ng		99
15) Benzyl Alcohol	7.028	79	340430	46.056	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	602557	44.009	ng		98
17) 2-Methylphenol	7.139	107	305111	44.987	ng		98
18) Hexachloroethane	7.404	117	146986	45.187	ng		97
19) n-Nitroso-di-n-propyla...	7.298	70	268245	43.892	ng		98
20) 3+4-Methylphenols	7.286	107	371349	42.807	ng	#	90
22) Acetophenone	7.298	105	503721	44.213	ng		98
24) Nitrobenzene	7.469	77	412447	44.823	ng		100
25) Isophorone	7.710	82	733519	46.048	ng		99
26) 2-Nitrophenol	7.786	139	192422	55.431	ng		98
27) 2,4-Dimethylphenol	7.822	122	300404	51.898	ng		98
28) bis(2-Chloroethoxy)met...	7.916	93	436527	45.231	ng		99
29) 2,4-Dichlorophenol	8.028	162	305647	46.359	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	320744	43.966	ng		100
31) Naphthalene	8.192	128	1061785	44.260	ng		100
32) Benzoic acid	7.933	122	231719	45.898	ng		98
33) 4-Chloroaniline	8.239	127	93330	11.409	ng		98
34) Hexachlorobutadiene	8.310	225	206714	45.097	ng		99
35) Caprolactam	8.610	113	98336m	46.907	ng		
36) 4-Chloro-3-methylphenol	8.716	107	338753	46.402	ng		100
37) 2-Methylnaphthalene	8.886	142	676008	46.011	ng		100
38) 1-Methylnaphthalene	8.980	142	625170	43.370	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	319152	46.091	ng		99
41) Hexachlorocyclopentadiene	9.039	237	386142	160.268	ng		98
43) 2,4,6-Trichlorophenol	9.157	196	232567	47.439	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140106.D
Acq On : 29 Oct 2024 12:30
Operator : RC/JU
Sample : P4561-05MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 29 12:59:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BP-F-18MSD

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	235734	46.607	ng		98
46) 1,1'-Biphenyl	9.345	154	815178	45.623	ng		99
47) 2-Chloronaphthalene	9.375	162	649391	45.126	ng		99
48) 2-Nitroaniline	9.469	65	224758	51.066	ng		95
49) Acenaphthylene	9.792	152	1010496	48.570	ng		99
50) Dimethylphthalate	9.645	163	763825	47.778	ng		100
51) 2,6-Dinitrotoluene	9.710	165	167332	48.341	ng		98
52) Acenaphthene	9.963	154	711175	52.842	ng		100
53) 3-Nitroaniline	9.874	138	91124	25.527	ng		97
54) 2,4-Dinitrophenol	9.986	184	196382	131.934	ng	#	1
55) Dibenzofuran	10.133	168	885829	45.875	ng		100
56) 4-Nitrophenol	10.033	139	269111	97.989	ng		97
57) 2,4-Dinitrotoluene	10.116	165	226623	53.238	ng		98
58) Fluorene	10.474	166	674927	45.890	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	191597	48.321	ng		98
60) Diethylphthalate	10.345	149	735614	46.863	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	346171	46.608	ng		99
62) 4-Nitroaniline	10.492	138	156655	46.466	ng		98
63) Azobenzene	10.627	77	871386	52.363	ng		95
65) 4,6-Dinitro-2-methylph...	10.522	198	127360	70.992	ng		92
66) n-Nitrosodiphenylamine	10.586	169	620045	47.103	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	217392	47.979	ng		98
68) Hexachlorobenzene	11.021	284	237439	46.595	ng		99
69) Atrazine	11.110	200	196449	55.092	ng		100
70) Pentachlorophenol	11.216	266	281948	91.166	ng		99
71) Phenanthrene	11.439	178	943324	45.406	ng		100
72) Anthracene	11.492	178	974760	48.088	ng		100
73) Carbazole	11.645	167	808719	42.899	ng		99
74) Di-n-butylphthalate	11.974	149	1041388	47.814	ng		99
75) Fluoranthene	12.627	202	838403	39.920	ng		100
77) Benzidine	12.745	184	181236	52.135	ng		99
78) Pyrene	12.857	202	811499	43.852	ng		100
80) Butylbenzylphthalate	13.468	149	308600	55.625	ng		100
81) Benzo(a)anthracene	14.039	228	635224	46.158	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	126129	31.434	ng		99
83) Chrysene	14.080	228	619134	49.067	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	381465	61.285	ng		100
85) Di-n-octyl phthalate	14.639	149	647308	57.175	ng		97
87) Indeno(1,2,3-cd)pyrene	17.027	276	726495	41.671	ng		99
88) Benzo(b)fluoranthene	15.098	252	721940	43.733	ng		99
89) Benzo(k)fluoranthene	15.127	252	658679	46.266	ng		100
90) Benzo(a)pyrene	15.468	252	684055	50.360	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	606275	41.686	ng		99
92) Benzo(g,h,i)perylene	17.480	276	507958	34.966	ng		98

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

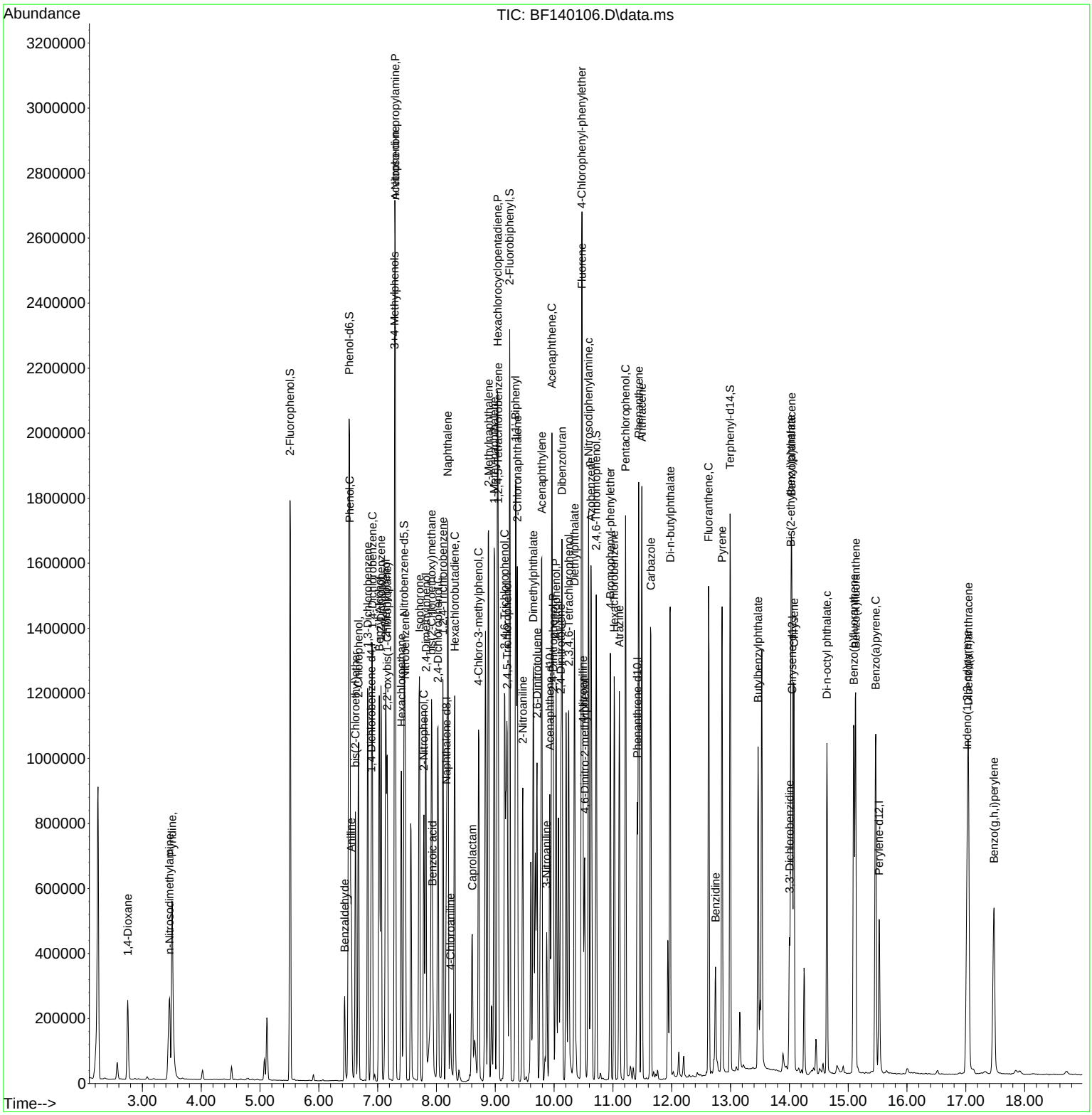
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140106.D
Acq On : 29 Oct 2024 12:30
Operator : RC/JU
Sample : P4561-05MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 29 12:59:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BP-F-18MSD

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BE101390.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Caprolactam	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Pyridine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Benzoic acid	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Caprolactam	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Pyridine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	Pyridine	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	Pyridine	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BE101394.D	Caprolactam	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC050	BE101394.D	Pyridine	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Benzo(k)fluoranthene	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Caprolactam	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Pyridine	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Aniline	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Caprolactam	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Pyridine	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Aniline	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Pyridine	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BE103124	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BE101425.D	Aniline	yogesh	11/4/2024 1:41:56 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
SSTDCCC040	BE101425.D	Caprolactam	yogesh	11/4/2024 1:41:56 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
SSTDCCC040	BE101425.D	Pyridine	yogesh	11/4/2024 1:41:56 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BS	BE101427.D	bis(2-Chloroethyl)ether	yogesh	11/4/2024 1:41:57 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BS	BE101427.D	Caprolactam	yogesh	11/4/2024 1:41:57 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BS	BE101427.D	Pyridine	yogesh	11/4/2024 1:41:57 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BSD	BE101428.D	bis(2-Chloroethyl)ether	yogesh	11/4/2024 1:41:59 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BSD	BE101428.D	Caprolactam	yogesh	11/4/2024 1:41:59 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BSD	BE101428.D	Pyridine	yogesh	11/4/2024 1:41:59 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BF101824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF139848.D	Phenol	yogesh	10/21/2024 6:33:45 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC050	BF139849.D	Phenol	yogesh	10/21/2024 6:33:46 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC060	BF139850.D	Phenol	yogesh	10/21/2024 6:33:47 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC080	BF139851.D	Aniline	yogesh	10/21/2024 6:33:49 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICV040	BF139852.D	Phenol	yogesh	10/21/2024 6:33:50 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BF102924	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140100.D	Phenol	Jagrut	10/30/2024 10:56:50 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
PB164461BS	BF140102.D	Caprolactam	Jagrut	10/30/2024 10:56:54 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
PB164461BS	BF140102.D	Phenol	Jagrut	10/30/2024 10:56:54 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MS	BF140105.D	2,3,4,6-Tetrachlorophenol	Jagrut	10/30/2024 10:56:57 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MS	BF140105.D	Caprolactam	Jagrut	10/30/2024 10:56:57 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MS	BF140105.D	Phenol	Jagrut	10/30/2024 10:56:57 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MSD	BF140106.D	Caprolactam	Jagrut	10/30/2024 10:56:59 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MSD	BF140106.D	Phenol	Jagrut	10/30/2024 10:56:59 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
SSTDCCC040	BF140113.D	Phenol	Jagrut	10/30/2024 10:57:02 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4578-04	BF140125.D	Benzo(a)anthracene	Jagrut	10/30/2024 10:57:17 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
SSTDCCC040	BF140133.D	Benzoic acid	Jagrut	10/30/2024 10:57:20 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
SSTDCCC040	BF140133.D	Phenol	Jagrut	10/30/2024 10:57:20 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF102924	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	BF103024	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140152.D	Phenol	yogesh	11/4/2024 1:33:24 AM	mohammad	11/4/2024 1:50:01 AM	Peak Integrated by Software
P4578-03	BF140156.D	Benzo(b)fluoranthene	yogesh	11/4/2024 1:33:27 AM	mohammad	11/4/2024 1:50:01 AM	Peak Integrated by Software
P4578-03	BF140156.D	Benzo(k)fluoranthene	yogesh	11/4/2024 1:33:27 AM	mohammad	11/4/2024 1:50:01 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf103124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140176.D	Benzo(b)fluoranthene	yogesh	11/4/2024 1:41:10 AM	mohammad	11/4/2024 1:50:49 AM	Peak Integrated by Software
SSTDCCC040	BF140176.D	Phenol	yogesh	11/4/2024 1:41:10 AM	mohammad	11/4/2024 1:50:49 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF110124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140200.D	Phenol	yogesh	11/4/2024 1:46:27 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM		
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM		
SubDirectory	BE102824	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101388.D	28 Oct 2024 10:51	RC/JU	Ok
2	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44	RC/JU	Ok
3	SSTDICC005	BE101390.D	28 Oct 2024 12:23	RC/JU	Ok,M
4	SSTDICC010	BE101391.D	28 Oct 2024 12:59	RC/JU	Ok,M
5	SSTDICC020	BE101392.D	28 Oct 2024 13:35	RC/JU	Ok,M
6	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	RC/JU	Ok,M
7	SSTDICC050	BE101394.D	28 Oct 2024 14:49	RC/JU	Ok,M
8	SSTDICC060	BE101395.D	28 Oct 2024 15:25	RC/JU	Ok,M
9	SSTDICC080	BE101396.D	28 Oct 2024 16:01	RC/JU	Ok,M
10	SSTDICV040	BE101397.D	28 Oct 2024 16:37	RC/JU	Ok,M
11	PB164444BL	BE101398.D	28 Oct 2024 17:16	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE103124

Review By	yogesh	Review On	11/4/2024 1:42:16 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:57 AM		
SubDirectory	BE103124	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101424.D	31 Oct 2024 9:40	RC/JU	Ok
2	SSTDCCC040	BE101425.D	31 Oct 2024 10:18	RC/JU	Ok,M
3	PB164533BL	BE101426.D	31 Oct 2024 10:57	RC/JU	Ok
4	PB164533BS	BE101427.D	31 Oct 2024 11:33	RC/JU	Ok,M
5	PB164533BSD	BE101428.D	31 Oct 2024 12:09	RC/JU	Ok,M
6	P4616-08	BE101429.D	31 Oct 2024 12:51	RC/JU	Ok
7	P4616-01	BE101430.D	31 Oct 2024 13:26	RC/JU	Ok
8	P4616-01MS	BE101431.D	31 Oct 2024 14:02	RC/JU	Not Ok
9	P4616-01MSD	BE101432.D	31 Oct 2024 14:38	RC/JU	Not Ok
10	P4578-02	BE101433.D	31 Oct 2024 15:14	RC/JU	ReRun
11	P4639-03	BE101434.D	31 Oct 2024 15:50	RC/JU	Ok
12	P4640-01	BE101435.D	31 Oct 2024 16:25	RC/JU	Ok,M
13	P4640-01MS	BE101436.D	31 Oct 2024 17:01	RC/JU	Ok,M
14	P4640-01MSD	BE101437.D	31 Oct 2024 17:37	RC/JU	Ok,M
15	P4598-09	BE101438.D	31 Oct 2024 18:13	RC/JU	Ok
16	P4594-01	BE101439.D	31 Oct 2024 18:49	RC/JU	Ok
17	P4611-07	BE101440.D	31 Oct 2024 19:24	RC/JU	Ok,M
18	P4618-01	BE101441.D	31 Oct 2024 20:00	RC/JU	Ok
19	P4595-01	BE101442.D	31 Oct 2024 20:36	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139843.D	18 Oct 2024 09:22	RC/JU	Ok
2	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27	RC/JU	Ok
3	SSTDICC005	BF139845.D	18 Oct 2024 10:55	RC/JU	Ok
4	SSTDICC010	BF139846.D	18 Oct 2024 11:23	RC/JU	Ok
5	SSTDICC020	BF139847.D	18 Oct 2024 11:52	RC/JU	Ok
6	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	RC/JU	Ok,M
7	SSTDICC050	BF139849.D	18 Oct 2024 12:49	RC/JU	Ok,M
8	SSTDICC060	BF139850.D	18 Oct 2024 13:17	RC/JU	Ok,M
9	SSTDICC080	BF139851.D	18 Oct 2024 13:46	RC/JU	Ok,M
10	SSTDICV040	BF139852.D	18 Oct 2024 14:19	RC/JU	Ok,M
11	PB164211BL	BF139853.D	18 Oct 2024 14:48	RC/JU	Ok
12	P4405-01	BF139854.D	18 Oct 2024 15:21	RC/JU	Ok
13	P4431-01	BF139855.D	18 Oct 2024 15:50	RC/JU	Ok,M
14	P4421-01	BF139856.D	18 Oct 2024 16:18	RC/JU	Ok,M
15	P4422-01	BF139857.D	18 Oct 2024 16:46	RC/JU	Ok
16	P4425-01	BF139858.D	18 Oct 2024 17:15	RC/JU	Ok
17	P4425-03	BF139859.D	18 Oct 2024 17:44	RC/JU	Ok
18	P4425-05	BF139860.D	18 Oct 2024 18:12	RC/JU	Ok
19	P4425-07	BF139861.D	18 Oct 2024 18:41	RC/JU	ReRun
20	P4425-09	BF139862.D	18 Oct 2024 19:09	RC/JU	ReRun
21	P4426-03	BF139863.D	18 Oct 2024 19:37	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4426-07	BF139864.D	18 Oct 2024 20:05	RC/JU	ReRun
23	P4426-17	BF139865.D	18 Oct 2024 20:34	RC/JU	ReRun
24	P4426-11	BF139866.D	18 Oct 2024 21:02	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM				
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM				
SubDirectory	BF102924	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140099.D	29 Oct 2024 09:09	RC/JU	Ok
2	SSTDCCC040	BF140100.D	29 Oct 2024 09:37	RC/JU	Ok,M
3	PB164461BL	BF140101.D	29 Oct 2024 10:05	RC/JU	Ok
4	PB164461BS	BF140102.D	29 Oct 2024 10:33	RC/JU	Ok,M
5	P4495-12	BF140103.D	29 Oct 2024 11:01	RC/JU	Ok
6	P4561-05	BF140104.D	29 Oct 2024 11:34	RC/JU	Ok
7	P4561-05MS	BF140105.D	29 Oct 2024 12:02	RC/JU	Ok,M
8	P4561-05MSD	BF140106.D	29 Oct 2024 12:30	RC/JU	Ok,M
9	P4574-07	BF140107.D	29 Oct 2024 12:58	RC/JU	Ok
10	P4574-09	BF140108.D	29 Oct 2024 13:24	RC/JU	Ok
11	P4574-11	BF140109.D	29 Oct 2024 13:50	RC/JU	Ok
12	P4578-05	BF140110.D	29 Oct 2024 14:16	RC/JU	Ok
13	P4578-07	BF140111.D	29 Oct 2024 14:42	RC/JU	Ok
14	DFTPP	BF140112.D	29 Oct 2024 15:35	RC/JU	Ok
15	SSTDCCC040	BF140113.D	29 Oct 2024 16:01	RC/JU	Ok,M
16	PB164497BL	BF140114.D	29 Oct 2024 16:26	RC/JU	Ok
17	PB164497BS	BF140115.D	29 Oct 2024 16:52	RC/JU	Ok,M
18	P4594-05	BF140116.D	29 Oct 2024 17:18	RC/JU	Ok
19	P4594-05MS	BF140117.D	29 Oct 2024 17:45	RC/JU	Ok,M
20	P4594-05MSD	BF140118.D	29 Oct 2024 18:11	RC/JU	Ok,M
21	P4597-07	BF140119.D	29 Oct 2024 18:37	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4594-17	BF140120.D	29 Oct 2024 19:03	RC/JU	Ok
23	P4598-05	BF140121.D	29 Oct 2024 19:29	RC/JU	Ok
24	P4567-05	BF140122.D	29 Oct 2024 19:55	RC/JU	Ok
25	P4597-01	BF140123.D	29 Oct 2024 20:21	RC/JU	Ok,M
26	P4574-01	BF140124.D	29 Oct 2024 20:47	RC/JU	Ok
27	P4578-04	BF140125.D	29 Oct 2024 21:13	RC/JU	Ok,M
28	P4561-01	BF140126.D	29 Oct 2024 21:39	RC/JU	Ok
29	P4567-09	BF140127.D	29 Oct 2024 22:05	RC/JU	Ok
30	P4598-01	BF140128.D	29 Oct 2024 22:31	RC/JU	Ok
31	P4597-04	BF140129.D	29 Oct 2024 22:57	RC/JU	Ok
32	P4597-10	BF140130.D	29 Oct 2024 23:24	RC/JU	Ok
33	P4594-13	BF140131.D	29 Oct 2024 23:49	RC/JU	Ok
34	DFTPP	BF140132.D	30 Oct 2024 00:41	RC/JU	Ok
35	SSTDCCC040	BF140133.D	30 Oct 2024 01:11	RC/JU	Ok,M
36	PB164500BL	BF140134.D	30 Oct 2024 02:04	RC/JU	Ok
37	PB164478TB	BF140135.D	30 Oct 2024 02:30	RC/JU	Ok
38	PB164500BS	BF140136.D	30 Oct 2024 02:56	RC/JU	Ok,M
39	P4597-03	BF140137.D	30 Oct 2024 03:22	RC/JU	Ok
40	P4597-06	BF140138.D	30 Oct 2024 03:48	RC/JU	Ok
41	P4594-04	BF140139.D	30 Oct 2024 04:14	RC/JU	Ok
42	P4594-04MS	BF140140.D	30 Oct 2024 04:40	RC/JU	Ok,M
43	P4594-04MSD	BF140141.D	30 Oct 2024 05:06	RC/JU	Ok,M
44	P4594-08	BF140142.D	30 Oct 2024 05:32	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P4594-12	BF140143.D	30 Oct 2024 05:58	RC/JU	Ok
46	P4594-16	BF140144.D	30 Oct 2024 06:24	RC/JU	Ok
47	P4594-20	BF140145.D	30 Oct 2024 06:50	RC/JU	Ok
48	P4597-09	BF140146.D	30 Oct 2024 07:16	RC/JU	Ok
49	P4597-12	BF140147.D	30 Oct 2024 07:42	RC/JU	Ok
50	P4598-04	BF140148.D	30 Oct 2024 08:08	RC/JU	Ok
51	P4598-08	BF140149.D	30 Oct 2024 08:34	RC/JU	Ok
52	P4598-12	BF140150.D	30 Oct 2024 09:00	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM		
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM		
SubDirectory	BF103024	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140151.D	30 Oct 2024 11:56	RC/JU	Ok
2	SSTDCCC040	BF140152.D	30 Oct 2024 12:50	RC/JU	Ok,M
3	PB164531BL	BF140153.D	30 Oct 2024 13:17	RC/JU	Ok
4	PB164531BS	BF140154.D	30 Oct 2024 13:43	RC/JU	Ok,M
5	P4611-10	BF140155.D	30 Oct 2024 14:14	RC/JU	Ok
6	P4578-03	BF140156.D	30 Oct 2024 14:41	RC/JU	Ok,M
7	P4612-05	BF140157.D	30 Oct 2024 15:07	RC/JU	Ok
8	P4611-13	BF140158.D	30 Oct 2024 15:34	RC/JU	Ok
9	P4611-16	BF140159.D	30 Oct 2024 16:00	RC/JU	Ok
10	P4616-05	BF140160.D	30 Oct 2024 16:26	RC/JU	Ok
11	P4618-03	BF140161.D	30 Oct 2024 16:53	RC/JU	Ok,M
12	P4611-01	BF140162.D	30 Oct 2024 17:20	RC/JU	Ok
13	P4617-01	BF140163.D	30 Oct 2024 17:46	RC/JU	Ok,M
14	P4611-04	BF140164.D	30 Oct 2024 18:13	RC/JU	ReRun
15	P4612-03	BF140165.D	30 Oct 2024 18:39	RC/JU	Ok,M
16	P4618-01	BF140166.D	30 Oct 2024 19:05	RC/JU	ReRun
17	P4595-01	BF140167.D	30 Oct 2024 19:32	RC/JU	ReRun
18	P4594-01	BF140168.D	30 Oct 2024 19:58	RC/JU	ReRun
19	P4611-07	BF140169.D	30 Oct 2024 20:25	RC/JU	ReRun
20	P4613-01	BF140170.D	30 Oct 2024 20:51	RC/JU	Ok,M
21	P4594-09	BF140171.D	30 Oct 2024 21:17	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM				
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM				
SubDirectory	BF103024	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4619-01	BF140172.D	30 Oct 2024 21:44	RC/JU	Dilution
23	P4614-01	BF140173.D	30 Oct 2024 22:10	RC/JU	ReRun
24	P4598-09	BF140174.D	30 Oct 2024 22:37	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM				
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM				
SubDirectory	BF103124	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140175.D	31 Oct 2024 08:56	RC/JU	Ok
2	SSTDCCC040	BF140176.D	31 Oct 2024 09:22	RC/JU	Ok,M
3	PB164540BL	BF140177.D	31 Oct 2024 09:48	RC/JU	Ok
4	PB164540BS	BF140178.D	31 Oct 2024 10:15	RC/JU	Ok,M
5	PB164522TB	BF140179.D	31 Oct 2024 10:41	RC/JU	Ok
6	P4611-18	BF140180.D	31 Oct 2024 11:14	RC/JU	Ok
7	P4612-04	BF140181.D	31 Oct 2024 11:40	RC/JU	Ok
8	P4613-02	BF140182.D	31 Oct 2024 12:07	RC/JU	Ok
9	P4616-04	BF140183.D	31 Oct 2024 12:33	RC/JU	Ok
10	P4611-04	BF140184.D	31 Oct 2024 13:03	RC/JU	Ok,M
11	P4611-09	BF140185.D	31 Oct 2024 13:29	RC/JU	Ok
12	P4611-06	BF140186.D	31 Oct 2024 13:55	RC/JU	Ok
13	P4611-03	BF140187.D	31 Oct 2024 14:21	RC/JU	Ok
14	P4611-03MS	BF140188.D	31 Oct 2024 14:48	RC/JU	Ok,M
15	P4611-03MSD	BF140189.D	31 Oct 2024 15:14	RC/JU	Ok,M
16	P4594-09	BF140190.D	31 Oct 2024 15:42	RC/JU	Ok
17	P4614-01	BF140191.D	31 Oct 2024 16:08	RC/JU	Ok,M
18	P4619-01DL	BF140192.D	31 Oct 2024 16:35	RC/JU	Ok,M
19	P4578-01	BF140193.D	31 Oct 2024 17:01	RC/JU	ReRun
20	P4617-04	BF140194.D	31 Oct 2024 17:28	RC/JU	Ok
21	P4611-15	BF140195.D	31 Oct 2024 17:54	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM				
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM				
SubDirectory	BF103124	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4611-12	BF140196.D	31 Oct 2024 18:21	RC/JU	Ok
23	P4643-09	BF140197.D	31 Oct 2024 18:47	RC/JU	Ok
24	P4639-01	BF140198.D	31 Oct 2024 19:13	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM				
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM				
SubDirectory	BF110124	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140199.D	01 Nov 2024 08:56	RC/JU	Ok
2	SSTDCCC040	BF140200.D	01 Nov 2024 09:22	RC/JU	Ok,M
3	PB164558BL	BF140201.D	01 Nov 2024 09:49	RC/JU	Ok
4	PB164558BS	BF140202.D	01 Nov 2024 10:15	RC/JU	Ok,M
5	PB164531BS	BF140203.D	01 Nov 2024 10:41	RC/JU	Ok,M
6	P4643-01	BF140204.D	01 Nov 2024 11:14	RC/JU	Ok
7	P4643-05	BF140205.D	01 Nov 2024 11:40	RC/JU	Ok
8	P4578-01RE	BF140206.D	01 Nov 2024 12:07	RC/JU	Confirms
9	P4578-02RE	BF140207.D	01 Nov 2024 12:33	RC/JU	Confirms
10	P4663-08	BF140208.D	01 Nov 2024 14:00	RC/JU	Ok
11	P4663-08MS	BF140209.D	01 Nov 2024 14:27	RC/JU	Ok,M
12	P4663-08MSD	BF140210.D	01 Nov 2024 14:53	RC/JU	Ok,M
13	P4659-01	BF140211.D	01 Nov 2024 15:20	RC/JU	ReRun
14	P4663-04	BF140212.D	01 Nov 2024 15:47	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM		
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM		
SubDirectory	BE102824	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BE101388.D	28 Oct 2024 10:51		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BE101390.D	28 Oct 2024 12:23	Compound #32,54,56,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BE101391.D	28 Oct 2024 12:59		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BE101392.D	28 Oct 2024 13:35	Compound #32,54 Kept on LR	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	The Calibration is Good For 8270 DOD Except com#77 and Not good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BE101394.D	28 Oct 2024 14:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BE101395.D	28 Oct 2024 15:25	Compound #69 removed from 60ppm	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BE101396.D	28 Oct 2024 16:01	Compound #9,69,79 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBE102824	BE101397.D	28 Oct 2024 16:37	ICV Fail for Com#77 for Both DOD and NON-DOD	RC/JU	Ok,M
11	PB164444BL	PB164444BL	BE101398.D	28 Oct 2024 17:16		RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE103124

Review By	yogesh	Review On	11/4/2024 1:42:16 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:57 AM		
SubDirectory	BE103124	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BE101424.D	31 Oct 2024 9:40		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BE101425.D	31 Oct 2024 10:18		RC/JU	Ok,M
3	PB164533BL	PB164533BL	BE101426.D	31 Oct 2024 10:57		RC/JU	Ok
4	PB164533BS	PB164533BS	BE101427.D	31 Oct 2024 11:33		RC/JU	Ok,M
5	PB164533BSD	PB164533BSD	BE101428.D	31 Oct 2024 12:09		RC/JU	Ok,M
6	P4616-08	BP-F9-MOVED	BE101429.D	31 Oct 2024 12:51		RC/JU	Ok
7	P4616-01	BP-F10	BE101430.D	31 Oct 2024 13:26		RC/JU	Ok
8	P4616-01MS	BP-F10MS	BE101431.D	31 Oct 2024 14:02	MSD Not OK	RC/JU	Not Ok
9	P4616-01MSD	BP-F10MSD	BE101432.D	31 Oct 2024 14:38	Internal standard fail	RC/JU	Not Ok
10	P4578-02	WB-305-SW-1	BE101433.D	31 Oct 2024 15:14	Surrogate Fail	RC/JU	ReRun
11	P4639-03	EO-02-103024	BE101434.D	31 Oct 2024 15:50		RC/JU	Ok
12	P4640-01	MH-3	BE101435.D	31 Oct 2024 16:25		RC/JU	Ok,M
13	P4640-01MS	MH-3MS	BE101436.D	31 Oct 2024 17:01		RC/JU	Ok,M
14	P4640-01MSD	MH-3MSD	BE101437.D	31 Oct 2024 17:37		RC/JU	Ok,M
15	P4598-09	TP-8	BE101438.D	31 Oct 2024 18:13		RC/JU	Ok
16	P4594-01	TP-4	BE101439.D	31 Oct 2024 18:49		RC/JU	Ok
17	P4611-07	TP-3	BE101440.D	31 Oct 2024 19:24		RC/JU	Ok,M
18	P4618-01	HR-01-102924	BE101441.D	31 Oct 2024 20:00		RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE103124

Review By	yogesh	Review On	11/4/2024 1:42:16 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:57 AM		
SubDirectory	BE103124	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4595-01	PITKIN-COMP	BE101442.D	31 Oct 2024 20:36		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF139843.D	18 Oct 2024 09:22		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF139845.D	18 Oct 2024 10:55	Compound #9,32,54,65,85 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF139846.D	18 Oct 2024 11:23		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF139847.D	18 Oct 2024 11:52	Compound #54 Kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF139849.D	18 Oct 2024 12:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF139850.D	18 Oct 2024 13:17		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF139851.D	18 Oct 2024 13:46		RC/JU	Ok,M
10	SSTDICV040	SSTDICV040	BF139852.D	18 Oct 2024 14:19		RC/JU	Ok,M
11	PB164211BL	PB164211BL	BF139853.D	18 Oct 2024 14:48		RC/JU	Ok
12	P4405-01	MH-121	BF139854.D	18 Oct 2024 15:21		RC/JU	Ok
13	P4431-01	72-11934	BF139855.D	18 Oct 2024 15:50		RC/JU	Ok,M
14	P4421-01	EO-02-101624	BF139856.D	18 Oct 2024 16:18		RC/JU	Ok,M
15	P4422-01	EO-01-101624	BF139857.D	18 Oct 2024 16:46		RC/JU	Ok
16	P4425-01	TP-1	BF139858.D	18 Oct 2024 17:15		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4425-03	TP-2	BF139859.D	18 Oct 2024 17:44		RC/JU	Ok
18	P4425-05	TP-3	BF139860.D	18 Oct 2024 18:12		RC/JU	Ok
19	P4425-07	TP-4	BF139861.D	18 Oct 2024 18:41	Internal Standrad Fail	RC/JU	ReRun
20	P4425-09	TP-5	BF139862.D	18 Oct 2024 19:09	Internal Standrad Fail	RC/JU	ReRun
21	P4426-03	PAD-2	BF139863.D	18 Oct 2024 19:37	Internal Standrad Fail	RC/JU	ReRun
22	P4426-07	PAD-4	BF139864.D	18 Oct 2024 20:05	Internal Standrad Fail	RC/JU	ReRun
23	P4426-17	PAD-9	BF139865.D	18 Oct 2024 20:34	Internal Standard Fail	RC/JU	ReRun
24	P4426-11	PAD-6	BF139866.D	18 Oct 2024 21:02	Internal Standard Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140099.D	29 Oct 2024 09:09		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140100.D	29 Oct 2024 09:37		RC/JU	Ok,M
3	PB164461BL	PB164461BL	BF140101.D	29 Oct 2024 10:05		RC/JU	Ok
4	PB164461BS	PB164461BS	BF140102.D	29 Oct 2024 10:33		RC/JU	Ok,M
5	P4495-12	PT-TRIAZINE-SOIL	BF140103.D	29 Oct 2024 11:01		RC/JU	Ok
6	P4561-05	BP-F-18	BF140104.D	29 Oct 2024 11:34		RC/JU	Ok
7	P4561-05MS	BP-F-18MS	BF140105.D	29 Oct 2024 12:02		RC/JU	Ok,M
8	P4561-05MSD	BP-F-18MSD	BF140106.D	29 Oct 2024 12:30		RC/JU	Ok,M
9	P4574-07	CONCRETE-1	BF140107.D	29 Oct 2024 12:58		RC/JU	Ok
10	P4574-09	CONCRETE-2	BF140108.D	29 Oct 2024 13:24		RC/JU	Ok
11	P4574-11	CONCRETE-3	BF140109.D	29 Oct 2024 13:50		RC/JU	Ok
12	P4578-05	WB-305-BOT	BF140110.D	29 Oct 2024 14:16		RC/JU	Ok
13	P4578-07	WB-305-BOT-1	BF140111.D	29 Oct 2024 14:42		RC/JU	Ok
14	DFTPP	DFTPP	BF140112.D	29 Oct 2024 15:35		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF140113.D	29 Oct 2024 16:01		RC/JU	Ok,M
16	PB164497BL	PB164497BL	BF140114.D	29 Oct 2024 16:26		RC/JU	Ok
17	PB164497BS	PB164497BS	BF140115.D	29 Oct 2024 16:52		RC/JU	Ok,M
18	P4594-05	BP-F17	BF140116.D	29 Oct 2024 17:18		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4594-05MS	BP-F17MS	BF140117.D	29 Oct 2024 17:45		RC/JU	Ok,M
20	P4594-05MSD	BP-F17MSD	BF140118.D	29 Oct 2024 18:11		RC/JU	Ok,M
21	P4597-07	BLUE-2-1	BF140119.D	29 Oct 2024 18:37		RC/JU	Ok,M
22	P4594-17	BP-F15	BF140120.D	29 Oct 2024 19:03		RC/JU	Ok
23	P4598-05	BP-F11	BF140121.D	29 Oct 2024 19:29		RC/JU	Ok
24	P4567-05	WC-2	BF140122.D	29 Oct 2024 19:55		RC/JU	Ok
25	P4597-01	RED-1-1	BF140123.D	29 Oct 2024 20:21		RC/JU	Ok,M
26	P4574-01	GRAVEL-1	BF140124.D	29 Oct 2024 20:47		RC/JU	Ok
27	P4578-04	WB-305-TOP-1	BF140125.D	29 Oct 2024 21:13		RC/JU	Ok,M
28	P4561-01	BP-F-19	BF140126.D	29 Oct 2024 21:39		RC/JU	Ok
29	P4567-09	WC-3	BF140127.D	29 Oct 2024 22:05		RC/JU	Ok
30	P4598-01	BP-F12	BF140128.D	29 Oct 2024 22:31		RC/JU	Ok
31	P4597-04	RED-1-2	BF140129.D	29 Oct 2024 22:57		RC/JU	Ok
32	P4597-10	BLUE-2-2	BF140130.D	29 Oct 2024 23:24		RC/JU	Ok
33	P4594-13	TP-5	BF140131.D	29 Oct 2024 23:49		RC/JU	Ok
34	DFTPP	DFTPP	BF140132.D	30 Oct 2024 00:41		RC/JU	Ok
35	SSTDCCC040	SSTDCCC040	BF140133.D	30 Oct 2024 01:11		RC/JU	Ok,M
36	PB164500BL	PB164500BL	BF140134.D	30 Oct 2024 02:04		RC/JU	Ok
37	PB164478TB	PB164478TB	BF140135.D	30 Oct 2024 02:30		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	PB164500BS	PB164500BS	BF140136.D	30 Oct 2024 02:56		RC/JU	Ok,M
39	P4597-03	RED-1-1	BF140137.D	30 Oct 2024 03:22		RC/JU	Ok
40	P4597-06	RED-1-2	BF140138.D	30 Oct 2024 03:48		RC/JU	Ok
41	P4594-04	TP-4	BF140139.D	30 Oct 2024 04:14		RC/JU	Ok
42	P4594-04MS	TP-4MS	BF140140.D	30 Oct 2024 04:40		RC/JU	Ok,M
43	P4594-04MSD	TP-4MSD	BF140141.D	30 Oct 2024 05:06		RC/JU	Ok,M
44	P4594-08	BP-F17	BF140142.D	30 Oct 2024 05:32		RC/JU	Ok
45	P4594-12	BP-F16	BF140143.D	30 Oct 2024 05:58		RC/JU	Ok
46	P4594-16	TP-5	BF140144.D	30 Oct 2024 06:24		RC/JU	Ok
47	P4594-20	BP-F15	BF140145.D	30 Oct 2024 06:50		RC/JU	Ok
48	P4597-09	BLUE-2-1	BF140146.D	30 Oct 2024 07:16		RC/JU	Ok
49	P4597-12	BLUE-2-2	BF140147.D	30 Oct 2024 07:42		RC/JU	Ok
50	P4598-04	BP-F12	BF140148.D	30 Oct 2024 08:08		RC/JU	Ok
51	P4598-08	BP-F11	BF140149.D	30 Oct 2024 08:34		RC/JU	Ok
52	P4598-12	TP-8	BF140150.D	30 Oct 2024 09:00		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM		
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM		
SubDirectory	BF103024	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140151.D	30 Oct 2024 11:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140152.D	30 Oct 2024 12:50		RC/JU	Ok,M
3	PB164531BL	PB164531BL	BF140153.D	30 Oct 2024 13:17		RC/JU	Ok
4	PB164531BS	PB164531BS	BF140154.D	30 Oct 2024 13:43		RC/JU	Ok,M
5	P4611-10	TP-4	BF140155.D	30 Oct 2024 14:14		RC/JU	Ok
6	P4578-03	WB-305-TOP	BF140156.D	30 Oct 2024 14:41		RC/JU	Ok,M
7	P4612-05	CONCRETE-PAD	BF140157.D	30 Oct 2024 15:07		RC/JU	Ok
8	P4611-13	TP-5	BF140158.D	30 Oct 2024 15:34		RC/JU	Ok
9	P4611-16	TP-6	BF140159.D	30 Oct 2024 16:00		RC/JU	Ok
10	P4616-05	BP-F9-MOVED	BF140160.D	30 Oct 2024 16:26		RC/JU	Ok
11	P4618-03	HR-04-102924	BF140161.D	30 Oct 2024 16:53		RC/JU	Ok,M
12	P4611-01	TP-1	BF140162.D	30 Oct 2024 17:20		RC/JU	Ok
13	P4617-01	RO-SOIL	BF140163.D	30 Oct 2024 17:46	Internal Standard Fail	RC/JU	Ok,M
14	P4611-04	TP-2	BF140164.D	30 Oct 2024 18:13	Internal standard fail	RC/JU	ReRun
15	P4612-03	MOO-24-00335	BF140165.D	30 Oct 2024 18:39	Internal standard fail	RC/JU	Ok,M
16	P4618-01	HR-01-102924	BF140166.D	30 Oct 2024 19:05	Internal standard fail	RC/JU	ReRun
17	P4595-01	PITKIN-COMP	BF140167.D	30 Oct 2024 19:32	Internal standard fail	RC/JU	ReRun
18	P4594-01	TP-4	BF140168.D	30 Oct 2024 19:58	Internal standard fail	RC/JU	ReRun

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM		
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM		
SubDirectory	BF103024	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4611-07	TP-3	BF140169.D	30 Oct 2024 20:25	Internal standard fail	RC/JU	ReRun
20	P4613-01	ARS20-0001	BF140170.D	30 Oct 2024 20:51	Internal standard fail	RC/JU	Ok,M
21	P4594-09	BP-F16	BF140171.D	30 Oct 2024 21:17	Internal standard fail	RC/JU	ReRun
22	P4619-01	SU-03-102924	BF140172.D	30 Oct 2024 21:44	Internal standard fail, Need 2X Dilution	RC/JU	Dilution
23	P4614-01	NB-07-102924	BF140173.D	30 Oct 2024 22:10	Internal standard fail	RC/JU	ReRun
24	P4598-09	TP-8	BF140174.D	30 Oct 2024 22:37	Internal standard fail	RC/JU	ReRun

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM		
SubDirectory	BF103124	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140175.D	31 Oct 2024 08:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140176.D	31 Oct 2024 09:22		RC/JU	Ok,M
3	PB164540BL	PB164540BL	BF140177.D	31 Oct 2024 09:48		RC/JU	Ok
4	PB164540BS	PB164540BS	BF140178.D	31 Oct 2024 10:15		RC/JU	Ok,M
5	PB164522TB	PB164522TB	BF140179.D	31 Oct 2024 10:41		RC/JU	Ok
6	P4611-18	TP-6	BF140180.D	31 Oct 2024 11:14		RC/JU	Ok
7	P4612-04	MOO-24-00335	BF140181.D	31 Oct 2024 11:40		RC/JU	Ok
8	P4613-02	ARS20-0001	BF140182.D	31 Oct 2024 12:07		RC/JU	Ok
9	P4616-04	BP-F10	BF140183.D	31 Oct 2024 12:33		RC/JU	Ok
10	P4611-04	TP-2	BF140184.D	31 Oct 2024 13:03		RC/JU	Ok,M
11	P4611-09	TP-3	BF140185.D	31 Oct 2024 13:29		RC/JU	Ok
12	P4611-06	TP-2	BF140186.D	31 Oct 2024 13:55		RC/JU	Ok
13	P4611-03	TP-1	BF140187.D	31 Oct 2024 14:21		RC/JU	Ok
14	P4611-03MS	TP-1MS	BF140188.D	31 Oct 2024 14:48		RC/JU	Ok,M
15	P4611-03MSD	TP-1MSD	BF140189.D	31 Oct 2024 15:14		RC/JU	Ok,M
16	P4594-09	BP-F16	BF140190.D	31 Oct 2024 15:42		RC/JU	Ok
17	P4614-01	NB-07-102924	BF140191.D	31 Oct 2024 16:08		RC/JU	Ok,M
18	P4619-01DL	SU-03-102924DL	BF140192.D	31 Oct 2024 16:35		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM		
SubDirectory	BF103124	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4578-01	WB-305-SW	BF140193.D	31 Oct 2024 17:01	Surrogate Fail	RC/JU	ReRun
20	P4617-04	CONCRETE-PILE	BF140194.D	31 Oct 2024 17:28		RC/JU	Ok
21	P4611-15	TP-5	BF140195.D	31 Oct 2024 17:54		RC/JU	Ok
22	P4611-12	TP-4	BF140196.D	31 Oct 2024 18:21		RC/JU	Ok
23	P4643-09	TP-9	BF140197.D	31 Oct 2024 18:47		RC/JU	Ok
24	P4639-01	EO-01-103024	BF140198.D	31 Oct 2024 19:13		RC/JU	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM		
SubDirectory	BF110124	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140199.D	01 Nov 2024 08:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140200.D	01 Nov 2024 09:22		RC/JU	Ok,M
3	PB164558BL	PB164558BL	BF140201.D	01 Nov 2024 09:49		RC/JU	Ok
4	PB164558BS	PB164558BS	BF140202.D	01 Nov 2024 10:15		RC/JU	Ok,M
5	PB164531BS	PB164531BS	BF140203.D	01 Nov 2024 10:41		RC/JU	Ok,M
6	P4643-01	BP-F9-ADDITIONAL	BF140204.D	01 Nov 2024 11:14		RC/JU	Ok
7	P4643-05	BP-F8	BF140205.D	01 Nov 2024 11:40		RC/JU	Ok
8	P4578-01RE	WB-305-SWRE	BF140206.D	01 Nov 2024 12:07	Surrogate Fail	RC/JU	Confirms
9	P4578-02RE	WB-305-SW-1RE	BF140207.D	01 Nov 2024 12:33	Surrogate Fail	RC/JU	Confirms
10	P4663-08	RES-BUILDING-PAD-N	BF140208.D	01 Nov 2024 14:00		RC/JU	Ok
11	P4663-08MS	RES-BUILDING-PAD-N	BF140209.D	01 Nov 2024 14:27		RC/JU	Ok,M
12	P4663-08MSD	RES-BUILDING-PAD-N	BF140210.D	01 Nov 2024 14:53		RC/JU	Ok,M
13	P4659-01	MH-2	BF140211.D	01 Nov 2024 15:20	Internal standard fail	RC/JU	ReRun
14	P4663-04	RES-BUILDING-PAD-N	BF140212.D	01 Nov 2024 15:47		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164461

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/28/2024
Matrix :	Solid			**Extraction Start Time :**	09:00
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	10/28/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2538
Baked Na2SO4	N/A	EP2554
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/24	RP (Ext. Lab)	Rc/svo c
12:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164461

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/28/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164461BL	SBLK461	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U1-1
PB164461BS	SLCS461	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
P4561-01	BP-F-19	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	B		3
P4561-05	BP-F-18	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	B		4
P4561-05MS	BP-F-18MS	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	B		5
P4561-05MSD	BP-F-18MSD	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	B		6
P4566-01	HD-01-102524	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		U5-1
P4567-01	WC-1	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	B		2
P4567-05	WC-2	SVOC-TCL BNA -20	50.10	N/A	ritesh	Evelyn	1	B		3
P4567-09	WC-3	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	B		4
P4574-01	GRAVEL-1	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E	Stone	5
P4574-04	GRAVEL-2	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E	Stone	6
P4574-07	CONCRETE-1	SVOC-PAH	50.06	N/A	ritesh	Evelyn	1	A	Concrete	U6-1
P4574-09	CONCRETE-2	SVOC-PAH	50.08	N/A	ritesh	Evelyn	1	A	Concrete	2
P4574-11	CONCRETE-3	SVOC-PAH	50.01	N/A	ritesh	Evelyn	1	A	Concrete	3
P4575-01	PL-02-102424	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
P4577-01	TR-05-102524	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		5
P4578-03	WB-305-TOP	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
P4578-04	WB-305-TOP-1	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		U7-1
P4578-05	WB-305-BOT	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		2
P4578-07	WB-305-BOT-1	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		3

* **Extracts relinquished on the same date as received.**

10/29/24

164461
9:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4567 **WorkList ID :** 184853 **Department :** Extraction **Date :** 10-28-2024 08:26:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4561-01	BP-F-19	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4561-05	BP-F-18	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4566-01	HD-01-102524	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K63	10/25/2024	8270E
P4567-01	WC-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/25/2024	8270E
P4567-05	WC-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/25/2024	8270E
P4567-09	WC-3	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/25/2024	8270E
P4574-01	GRAVEL-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-04	GRAVEL-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-07	CONCRETE-1	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-09	CONCRETE-2	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-11	CONCRETE-3	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4575-01	PL-02-102424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K63	10/25/2024	8270E
P4577-01	TR-05-102524	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K63	10/25/2024	8270E
P4578-03	WB-305-TOP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-04	WB-305-TOP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-05	WB-305-BOT	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-07	WB-305-BOT-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E

Date/Time 10/28/24 9:55
Raw Sample Received by: RJ (Set 104)
Raw Sample Relinquished by: JDCSM)

Date/Time 10/28/24 9:30
Raw Sample Received by: JD CSM)
Raw Sample Relinquished by: RJ (Set 104)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164533

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/30/2024
Matrix :	Water			**Extraction Start Time :**	08:50
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	10/30/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	13:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3574	**Hood ID:**	4,5,6,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3817
Baked Na2SO4	N/A	EP2551
10N NaoH	N/A	EP2550
H2SO4 1:1	N/A	EP2548
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH. P4578-01,02 Limited volume recd.

KD Bath ID:	Water bath -01,02	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/30/24	RP (Ext. Tech)	AC/SVOC
13:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164533

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 10/30/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164533BL	SBLK533	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			SEP-12
PB164533BS	SLCS533	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			13
PB164533BSD	SLCSD533	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			14
P4578-01	WB-305-SW	SVOC-TCL BNA -20	490	6	ritesh	rajesh	0.5	G		15
P4578-02	WB-305-SW-1	SVOC-TCL BNA -20	490	6	ritesh	rajesh	0.5	G		16

* **Extracts relinquished on the same date as received.**

S:TO BY (04)33

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4578 **WorkList ID :** 184933 **Department :** Extraction **Date :** 10-30-2024 08:30:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4578-01	WB-305-SW	Water	EPH	1:1 HCl to pH < 2	PORT06	K63	10/25/2024	NJEPH
P4578-01	WB-305-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-02	WB-305-SW-1	Water	EPH	1:1 HCl to pH < 2	PORT06	K63	10/25/2024	NJEPH
P4578-02	WB-305-SW-1	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E

Date/Time 10/30/24 8:05
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: JT (SM)

Date/Time 10/30/24 8:05
Raw Sample Received by: JT (SM)
Raw Sample Relinquished by: RJ (Ext Lab)

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	**WB-305-SW**	**Water**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/30/24	10/31/24	
P4578-01RE	**WB-305-SWRE**	**Water**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/30/24	11/01/24	
P4578-02	**WB-305-SW-1**	**Water**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/30/24	10/31/24	
P4578-02RE	**WB-305-SW-1RE**	**Water**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/30/24	11/01/24	
P4578-03	**WB-305-TOP**	**SOIL**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/28/24	10/30/24	
P4578-04	**WB-305-TOP-1**	**SOIL**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/28/24	10/29/24	
P4578-05	**WB-305-BOT**	**SOIL**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/28/24	10/29/24	
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP BNA	8270E		10/26/24	10/28/24	
P4578-07	**WB-305-BOT-1**	**SOIL**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/28/24	10/29/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP BNA	8270E		10/26/24	10/28/24	

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Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-06	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140084.D	1	10/26/24 12:10	10/28/24 13:51	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	130		15 (10) - 110 (139)	87%	SPK: 150
13127-88-3	Phenol-d6	120		15 (10) - 110 (134)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (49) - 130 (133)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		30 (52) - 130 (132)	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		15 (44) - 110 (137)	106%	SPK: 150
1718-51-0	Terphenyl-d14	111		30 (48) - 130 (125)	111%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	113000	6.887			
1146-65-2	Naphthalene-d8	439000	8.169			
15067-26-2	Acenaphthene-d10	246000	9.922			
1517-22-2	Phenanthrene-d10	437000	11.41			
1719-03-5	Chrysene-d12	219000	14.045			
1520-96-3	Perylene-d12	258000	15.527			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-06	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140084.D	1	10/26/24 12:10	10/28/24 13:51	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-08	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140085.D	1	10/26/24 12:10	10/28/24 14:19	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	121		15 (10) - 110 (139)	81%	SPK: 150
13127-88-3	Phenol-d6	112		15 (10) - 110 (134)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.4		30 (49) - 130 (133)	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.8		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	147		15 (44) - 110 (137)	98%	SPK: 150
1718-51-0	Terphenyl-d14	102		30 (48) - 130 (125)	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	6.887			
1146-65-2	Naphthalene-d8	442000	8.169			
15067-26-2	Acenaphthene-d10	246000	9.922			
1517-22-2	Phenanthrene-d10	438000	11.41			
1719-03-5	Chrysene-d12	216000	14.045			
1520-96-3	Perylene-d12	231000	15.527			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-08	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140085.D	1	10/26/24 12:10	10/28/24 14:19	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/26/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/26/24
Client Sample ID:	PB164393TB	SDG No.:	P4578
Lab Sample ID:	PB164393TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140078.D	1	10/26/24 12:10	10/28/24 10:58	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	122		15 (10) - 110 (139)	82%	SPK: 150
13127-88-3	Phenol-d6	119		15 (10) - 110 (134)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.2		30 (49) - 130 (133)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.9		30 (52) - 130 (132)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	137		15 (44) - 110 (137)	91%	SPK: 150
1718-51-0	Terphenyl-d14	88.8		30 (48) - 130 (125)	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	128000	6.887			
1146-65-2	Naphthalene-d8	508000	8.169			
15067-26-2	Acenaphthene-d10	289000	9.922			
1517-22-2	Phenanthrene-d10	536000	11.41			
1719-03-5	Chrysene-d12	334000	14.051			
1520-96-3	Perylene-d12	262000	15.527			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/26/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/26/24
Client Sample ID:	PB164393TB	SDG No.:	P4578
Lab Sample ID:	PB164393TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140078.D	1	10/26/24 12:10	10/28/24 10:58	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4545-02MS	VNJ-215MS	2-Fluorophenol	150	135	90		15 (10)	110 (139)
		Phenol-d6	150	129	86		15 (10)	110 (134)
		Nitrobenzene-d5	100	103	103		30 (49)	130 (133)
		2-Fluorobiphenyl	100	98.8	99		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	159	106		15 (44)	110 (137)
		Terphenyl-d14	100	105	105		30 (48)	130 (125)
P4545-02MSD	VNJ-215MSD	2-Fluorophenol	150	136	91		15 (10)	110 (139)
		Phenol-d6	150	132	88		15 (10)	110 (134)
		Nitrobenzene-d5	100	105	105		30 (49)	130 (133)
		2-Fluorobiphenyl	100	101	101		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	162	108		15 (44)	110 (137)
		Terphenyl-d14	100	105	105		30 (48)	130 (125)
P4578-06	WB-305-BOT	2-Fluorophenol	150	130	87		15 (10)	110 (139)
		Phenol-d6	150	120	80		15 (10)	110 (134)
		Nitrobenzene-d5	100	105	105		30 (49)	130 (133)
		2-Fluorobiphenyl	100	101	101		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	159	106		15 (44)	110 (137)
		Terphenyl-d14	100	111	111		30 (48)	130 (125)
P4578-08	WB-305-BOT-1	2-Fluorophenol	150	121	81		15 (10)	110 (139)
		Phenol-d6	150	112	75		15 (10)	110 (134)
		Nitrobenzene-d5	100	96.4	96		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.8	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	147	98		15 (44)	110 (137)
		Terphenyl-d14	100	102	102		30 (48)	130 (125)
PB164393TB	PB164393TB	2-Fluorophenol	150	122	82		15 (10)	110 (139)
		Phenol-d6	150	119	79		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.2	92		30 (49)	130 (133)
		2-Fluorobiphenyl	100	87.9	88		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	137	91		15 (44)	110 (137)
		Terphenyl-d14	100	88.8	89		30 (48)	130 (125)
PB164444BL	PB164444BL	2-Fluorophenol	150	120	80		15 (10)	110 (139)
		Phenol-d6	150	114	76		15 (10)	110 (134)
		Nitrobenzene-d5	100	90.9	91		30 (49)	130 (133)
		2-Fluorobiphenyl	100	87.1	87		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	133	89		15 (44)	110 (137)
		Terphenyl-d14	100	89.1	89		30 (48)	130 (125)
PB164444BS	PB164444BS	2-Fluorophenol	150	120	80		15 (10)	110 (139)
		Phenol-d6	150	118	79		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.6	93		30 (49)	130 (133)
		2-Fluorobiphenyl	100	87.2	87		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	141	94		15 (44)	110 (137)
		Terphenyl-d14	100	95.7	96		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4545-02MS		**Client Sample ID: VNJ-215MS**						**DataFile: BF140092.D**			
Pyridine	500	0	230	ug/L	46				20 (10)	160 (109)	
1,4-Dichlorobenzene	500	0	430	ug/L	86				70 (55)	130 (125)	
2-Methylphenol	500	0	490	ug/L	98				70 (37)	130 (126)	
3+4-Methylphenols	500	0	480	ug/L	96				20 (31)	160 (127)	
Hexachloroethane	500	0	420	ug/L	84				20 (49)	160 (110)	
Nitrobenzene	500	0	470	ug/L	94				70 (62)	130 (112)	
Hexachlorobutadiene	500	0	460	ug/L	92				70 (52)	130 (125)	
2,4,6-Trichlorophenol	500	0	550	ug/L	110				70 (78)	130 (112)	
2,4,5-Trichlorophenol	500	0	540	ug/L	108				70 (71)	130 (111)	
2,4-Dinitrotoluene	500	0	600	ug/L	120				70 (50)	130 (142)	
Hexachlorobenzene	500	0	540	ug/L	108				70 (72)	130 (115)	
Pentachlorophenol	1000	0	780	ug/L	78				20 (25)	160 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: P4545-02MSD		**Client Sample ID:** VNJ-215MSD						**DataFile:** BF140093.D			
Pyridine	500	0	250	ug/L	50		8		20 (10)	160 (109)	20 (20)
1,4-Dichlorobenzene	500	0	440	ug/L	88		2		70 (55)	130 (125)	20 (20)
2-Methylphenol	500	0	500	ug/L	100		2		70 (37)	130 (126)	20 (20)
3+4-Methylphenols	500	0	500	ug/L	100		4		20 (31)	160 (127)	20 (20)
Hexachloroethane	500	0	430	ug/L	86		2		20 (49)	160 (110)	20 (20)
Nitrobenzene	500	0	470	ug/L	94		0		70 (62)	130 (112)	20 (20)
Hexachlorobutadiene	500	0	460	ug/L	92		0		70 (52)	130 (125)	20 (20)
2,4,6-Trichlorophenol	500	0	560	ug/L	112		2		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	500	0	540	ug/L	108		0		70 (71)	130 (111)	20 (20)
2,4-Dinitrotoluene	500	0	610	ug/L	122		2		70 (50)	130 (142)	20 (20)
Hexachlorobenzene	500	0	560	ug/L	112		4		70 (72)	130 (115)	20 (20)
Pentachlorophenol	1000	0	850	ug/L	85		9		20 (25)	160 (139)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140077.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164444BS	Pyridine	50	38.6	ug/L	77				20 (29)	160 (97)	
	1,4-Dichlorobenzene	50	43.7	ug/L	87				70 (76)	130 (103)	
	2-Methylphenol	50	44.4	ug/L	89				70 (69)	130 (109)	
	3+4-Methylphenols	50	43.0	ug/L	86				20 (67)	160 (106)	
	Hexachloroethane	50	44.2	ug/L	88				20 (76)	160 (118)	
	Nitrobenzene	50	43.5	ug/L	87				70 (58)	130 (106)	
	Hexachlorobutadiene	50	44.9	ug/L	90				70 (69)	130 (101)	
	2,4,6-Trichlorophenol	50	45.9	ug/L	92				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	44.6	ug/L	89				70 (70)	130 (106)	
	2,4-Dinitrotoluene	50	52.4	ug/L	105				70 (60)	130 (115)	
	Hexachlorobenzene	50	45.0	ug/L	90				70 (73)	130 (106)	
	Pentachlorophenol	100	89.7	ug/L	90				20 (47)	160 (114)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164444BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140076.D Lab Sample ID: PB164444BL

Instrument ID: BNA_F Date Extracted: 10/26/2024

Matrix: (soil/water) water Date Analyzed: 10/28/2024

Level: (low/med) LOW Time Analyzed: 10:01

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164393TB	PB164393TB	BF140078.D	10/28/2024
WB-305-BOT	P4578-06	BF140084.D	10/28/2024
WB-305-BOT-1	P4578-08	BF140085.D	10/28/2024
PB164444BS	PB164444BS	BF140077.D	10/28/2024
VNJ-215MS	P4545-02MS	BF140092.D	10/28/2024
VNJ-215MSD	P4545-02MSD	BF140093.D	10/28/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF139843.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.9 (19.2) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF139844.D	10/18/2024	10:27
SSTDICC005	SSTDICC005	BF139845.D	10/18/2024	10:55
SSTDICC010	SSTDICC010	BF139846.D	10/18/2024	11:23
SSTDICC020	SSTDICC020	BF139847.D	10/18/2024	11:52
SSTDICCC040	SSTDICCC040	BF139848.D	10/18/2024	12:20
SSTDICC050	SSTDICC050	BF139849.D	10/18/2024	12:49
SSTDICC060	SSTDICC060	BF139850.D	10/18/2024	13:17
SSTDICC080	SSTDICC080	BF139851.D	10/18/2024	13:46

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140074.D DFTPP Injection Date: 10/28/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.1
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	37.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.3
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140075.D	10/28/2024	09:32
PB164444BL	PB164444BL	BF140076.D	10/28/2024	10:01
PB164444BS	PB164444BS	BF140077.D	10/28/2024	10:29
PB164393TB	PB164393TB	BF140078.D	10/28/2024	10:58
WB-305-BOT	P4578-06	BF140084.D	10/28/2024	13:51
WB-305-BOT-1	P4578-08	BF140085.D	10/28/2024	14:19
VNJ-215MS	P4545-02MS	BF140092.D	10/28/2024	17:35
VNJ-215MSD	P4545-02MSD	BF140093.D	10/28/2024	18:03

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/28/2024

Lab File ID: BF140075.D Time Analyzed: 09:32

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	132517	6.892	497360	8.18	274065	9.93
	UPPER LIMIT	265034	7.392	994720	8.675	548130	10.427
	LOWER LIMIT	66258.5	6.392	248680	7.675	137033	9.427
	EPA SAMPLE NO.						
01	PB164444BL	132330	6.89	518019	8.17	298114	9.92
02	PB164444BS	127868	6.89	495282	8.18	281323	9.93
03	PB164393TB	128211	6.89	508163	8.17	288600	9.92
04	VNJ-215MS	113612	6.89	441889	8.17	241647	9.93
05	VNJ-215MSD	111820	6.89	432287	8.17	236921	9.93
06	WB-305-BOT	112580	6.89	438516	8.17	246067	9.92
07	WB-305-BOT-1	111257	6.89	441878	8.17	245603	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/28/2024

Lab File ID: BF140075.D Time Analyzed: 09:32

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	494703	11.416	250901	14.051	263501	15.527
	UPPER LIMIT	989406	11.916	501802	14.551	527002	16.027
	LOWER LIMIT	247352	10.916	125451	13.551	131751	15.027
	EPA SAMPLE NO.						
01	PB164444BL	550598	11.41	341644	14.05	261224	15.53
02	PB164444BS	511374	11.42	262593	14.05	265684	15.53
03	PB164393TB	536321	11.41	334195	14.05	261975	15.53
04	VNJ-215MS	409717	11.41	203129	14.05	263019	15.53
05	VNJ-215MSD	398949	11.41	204155	14.05	256308	15.53
06	WB-305-BOT	437262	11.41	219498	14.05	258448	15.53
07	WB-305-BOT-1	437798	11.41	215751	14.05	230540	15.53

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164444BL	SDG No.:	P4578
Lab Sample ID:	PB164444BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140076.D	1	10/26/24 12:10	10/28/24 10:01	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.84	U	0.84	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	120		15 (10) - 110 (139)	80%	SPK: 150
13127-88-3	Phenol-d6	114		15 (10) - 110 (134)	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.9		30 (49) - 130 (133)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.1		30 (52) - 130 (132)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	89%	SPK: 150
1718-51-0	Terphenyl-d14	89.1		30 (48) - 130 (125)	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	132000	6.886			
1146-65-2	Naphthalene-d8	518000	8.169			
15067-26-2	Acenaphthene-d10	298000	9.922			
1517-22-2	Phenanthrene-d10	551000	11.41			
1719-03-5	Chrysene-d12	342000	14.045			
1520-96-3	Perylene-d12	261000	15.527			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB164444BL			SDG No.:	P4578
Lab Sample ID:	PB164444BL			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140076.D	1	10/26/24 12:10	10/28/24 10:01	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164444BS	SDG No.:	P4578
Lab Sample ID:	PB164444BS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140077.D	1	10/26/24 12:10	10/28/24 10:29	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	38.6		1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	43.7		0.84	5.00	ug/L
95-48-7	2-Methylphenol	44.4		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	43.0		1.20	10.0	ug/L
67-72-1	Hexachloroethane	44.2		1.00	5.00	ug/L
98-95-3	Nitrobenzene	43.5		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.9		1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	45.9		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	44.6		1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	52.4		1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	45.0		1.10	5.00	ug/L
87-86-5	Pentachlorophenol	89.7	E	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	120		15 (10) - 110 (139)	80%	SPK: 150
13127-88-3	Phenol-d6	118		15 (10) - 110 (134)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.6		30 (49) - 130 (133)	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.2		30 (52) - 130 (132)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		15 (44) - 110 (137)	94%	SPK: 150
1718-51-0	Terphenyl-d14	95.7		30 (48) - 130 (125)	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	128000	6.887			
1146-65-2	Naphthalene-d8	495000	8.175			
15067-26-2	Acenaphthene-d10	281000	9.928			
1517-22-2	Phenanthrene-d10	511000	11.416			
1719-03-5	Chrysene-d12	263000	14.051			
1520-96-3	Perylene-d12	266000	15.527			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB164444BS			SDG No.:	P4578
Lab Sample ID:	PB164444BS			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140077.D	1	10/26/24 12:10	10/28/24 10:29	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	VNJ-215MS	SDG No.:	P4578
Lab Sample ID:	P4545-02MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140092.D	1	10/26/24 12:10	10/28/24 17:35	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	230		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	430		8.40	50.0	ug/L
95-48-7	2-Methylphenol	490		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	480		11.5	100	ug/L
67-72-1	Hexachloroethane	420		10.1	50.0	ug/L
98-95-3	Nitrobenzene	470		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	460		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	550		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	540		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	600		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	540		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	780		18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	135		15 (10) - 110 (139)	90%	SPK: 150
13127-88-3	Phenol-d6	129		15 (10) - 110 (134)	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	103		30 (49) - 130 (133)	103%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.8		30 (52) - 130 (132)	99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		15 (44) - 110 (137)	106%	SPK: 150
1718-51-0	Terphenyl-d14	105		30 (48) - 130 (125)	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	114000	6.892			
1146-65-2	Naphthalene-d8	442000	8.169			
15067-26-2	Acenaphthene-d10	242000	9.928			
1517-22-2	Phenanthrene-d10	410000	11.41			
1719-03-5	Chrysene-d12	203000	14.051			
1520-96-3	Perylene-d12	263000	15.527			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	VNJ-215MS	SDG No.:	P4578
Lab Sample ID:	P4545-02MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140092.D	1	10/26/24 12:10	10/28/24 17:35	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	VNJ-215MSD	SDG No.:	P4578
Lab Sample ID:	P4545-02MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140093.D	1	10/26/24 12:10	10/28/24 18:03	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	250		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	440		8.40	50.0	ug/L
95-48-7	2-Methylphenol	500		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	500		11.5	100	ug/L
67-72-1	Hexachloroethane	430		10.1	50.0	ug/L
98-95-3	Nitrobenzene	470		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	460		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	560		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	540		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	610		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	560		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	850	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	136		15 (10) - 110 (139)	91%	SPK: 150
13127-88-3	Phenol-d6	132		15 (10) - 110 (134)	88%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (49) - 130 (133)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		30 (52) - 130 (132)	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	162		15 (44) - 110 (137)	108%	SPK: 150
1718-51-0	Terphenyl-d14	105		30 (48) - 130 (125)	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	112000	6.886			
1146-65-2	Naphthalene-d8	432000	8.169			
15067-26-2	Acenaphthene-d10	237000	9.927			
1517-22-2	Phenanthrene-d10	399000	11.41			
1719-03-5	Chrysene-d12	204000	14.051			
1520-96-3	Perylene-d12	256000	15.527			

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	VNJ-215MSD	SDG No.:	P4578
Lab Sample ID:	P4545-02MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140093.D	1	10/26/24 12:10	10/28/24 18:03	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF1398
51.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.581	0.548	0.596	5.74
3)		Pyridine		1.622	1.570	1.522	1.504	1.386	1.406	1.326	1.476	7.26
4)		n-Nitrosodimet...		0.815	0.800	0.799	0.806	0.782	0.794	0.757	0.793	2.39
5)	S	2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.186	1.106	1.278	10.10
6)		Aniline		1.673	1.649	1.618	1.582	1.471	1.479	1.324	1.542	8.05
7)	S	Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.539	1.432	1.655	10.06
8)		2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.221	1.116	1.306	10.24
9)		Benzaldehyde			1.137	1.042	0.940	0.873	0.853	0.740	0.931	15.22
10)	C	Phenol		1.952	1.832	1.760	1.712	1.583	1.601	1.502	1.706	9.19
11)		bis(2-Chloroet...		1.470	1.423	1.359	1.294	1.251	1.249	1.183	1.319	7.82
12)		1,3-Dichlorobe...		1.718	1.656	1.544	1.499	1.392	1.391	1.294	1.499	10.19
13)	C	1,4-Dichlorobe...		1.723	1.641	1.558	1.487	1.392	1.391	1.291	1.498	10.19
14)		1,2-Dichlorobe...		1.660	1.579	1.478	1.379	1.273	1.267	1.149	1.398	13.15
15)		Benzyl Alcohol		1.355	1.299	1.257	1.213	1.154	1.146	1.071	1.214	8.07
16)		2,2'-oxybis(1-...		2.524	2.409	2.353	2.255	2.117	2.115	1.964	2.248	8.69
17)		2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.063	1.004	1.114	7.69
18)		Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.511	0.477	0.534	7.06
19)	P	n-Nitroso-di-n...	1.105	1.141	1.066	1.025	0.974	0.921	0.927	0.869	1.004	9.63
20)		3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.300	1.173	1.424	12.41
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.578	0.533	0.516	0.481	0.452	0.454	0.414	0.490	11.43
23)	S	Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.357	0.342	0.361	2.92
24)		Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.388	0.370	0.396	4.10
25)		Isophorone		0.755	0.709	0.702	0.679	0.652	0.660	0.637	0.685	5.90
26)	C	2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.161	0.157	0.149	9.22
27)		2,4-Dimethylph...		0.285	0.259	0.256	0.248	0.237	0.234	0.223	0.249	8.07
28)		bis(2-Chloroet...		0.468	0.440	0.432	0.412	0.394	0.390	0.369	0.415	8.22
29)	C	2,4-Dichloroph...		0.308	0.297	0.293	0.283	0.272	0.274	0.257	0.283	6.17
30)		1,2,4-Trichlor...		0.351	0.331	0.325	0.315	0.298	0.298	0.279	0.314	7.68
31)		Naphthalene		1.209	1.121	1.091	1.023	0.958	0.944	0.875	1.031	11.23
32)		Benzoic acid			0.175	0.207	0.220	0.231	0.235	0.235	0.217	10.69
33)		4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.326	0.306	0.352	9.26
34)	C	Hexachlorobuta...		0.224	0.206	0.203	0.197	0.185	0.187	0.177	0.197	7.96
35)		Caprolactam		0.092	0.092	0.092	0.092	0.088	0.088	0.086	0.090	2.85
36)	C	4-Chloro-3-met...		0.341	0.328	0.324	0.315	0.299	0.303	0.287	0.314	6.03
37)		2-Methylnaphth...		0.740	0.689	0.666	0.621	0.587	0.583	0.537	0.632	11.11
38)		1-Methylnaphth...		0.726	0.683	0.655	0.612	0.569	0.567	0.526	0.620	11.55

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.579	0.562	0.537	0.512	0.506	0.472	0.540	8.72
41)	P	Hexachlorocycl...	0.185	0.193	0.198	0.198	0.186	0.185	0.169	0.188	5.28
42)	S	2,4,6-Tribromo...	0.201	0.196	0.193	0.188	0.179	0.180	0.173	0.187	5.47
43)	C	2,4,6-Trichlor...	0.405	0.382	0.400	0.387	0.363	0.383	0.354	0.382	4.80
44)		2,4,5-Trichlor...	0.426	0.425	0.398	0.401	0.381	0.369	0.359	0.394	6.58
45)	S	2-Fluorobiphenyl	1.512	1.396	1.280	1.162	1.088	1.060	0.973	1.210	16.05
46)		1,1'-Biphenyl	1.640	1.536	1.483	1.379	1.285	1.262	1.161	1.392	12.18
47)		2-Chloronaphth...	1.288	1.225	1.164	1.111	1.048	1.040	0.973	1.121	9.95
48)		2-Nitroaniline	0.299	0.318	0.353	0.365	0.354	0.362	0.349	0.343	7.20
49)		Acenaphthylene	1.854	1.756	1.717	1.615	1.507	1.505	1.394	1.621	10.06
50)		Dimethylphthalate	1.410	1.344	1.283	1.237	1.172	1.163	1.110	1.246	8.60
51)		2,6-Dinitrotol...	0.256	0.266	0.278	0.280	0.273	0.274	0.260	0.270	3.41
52)	C	Acenaphthene	1.200	1.136	1.089	1.044	0.977	0.983	0.913	1.049	9.55
53)		3-Nitroaniline	0.270	0.275	0.296	0.292	0.276	0.282	0.256	0.278	4.84
54)	P	2,4-Dinitrophenol		0.056	0.077	0.101	0.101	0.113	0.112	0.093	23.89
55)		Dibenzofuran	1.767	1.659	1.579	1.486	1.389	1.375	1.278	1.505	11.52
56)	P	4-Nitrophenol	0.187	0.207	0.225	0.232	0.219	0.220	0.208	0.214	6.84
57)		2,4-Dinitrotol...	0.280	0.314	0.337	0.356	0.344	0.351	0.338	0.332	7.94
58)		Fluorene	1.409	1.309	1.201	1.110	1.029	1.021	0.944	1.146	14.68
59)		2,3,4,6-Tetrac...	0.334	0.322	0.326	0.310	0.296	0.293	0.281	0.309	6.33
60)		Diethylphthalate	1.366	1.308	1.267	1.214	1.165	1.161	1.080	1.223	7.99
61)		4-Chlorophenyl...	0.698	0.638	0.617	0.569	0.526	0.520	0.484	0.579	13.14
62)		4-Nitroaniline	0.249	0.259	0.270	0.275	0.263	0.269	0.254	0.263	3.65
63)		Azobenzene	1.459	1.385	1.355	1.306	1.216	1.212	1.143	1.297	8.62
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.055	0.072	0.087	0.090	0.092	0.093	0.082	18.60
66)	c	n-Nitrosodiphe...	0.672	0.641	0.621	0.595	0.568	0.561	0.533	0.599	8.14
67)		4-Bromophenyl-...	0.230	0.217	0.211	0.202	0.197	0.196	0.189	0.206	6.98
68)		Hexachlorobenzene	0.258	0.245	0.237	0.231	0.217	0.221	0.212	0.232	7.20
69)		Atrazine	0.189	0.175	0.156	0.175	0.135	0.153	0.151	0.162	11.36
70)	C	Pentachlorophenol	0.118	0.137	0.148	0.152	0.145	0.144	0.140	0.141	8.04
71)		Phenanthrene	1.121	1.035	0.994	0.933	0.863	0.860	0.807	0.945	11.79
72)		Anthracene	1.082	1.014	0.972	0.913	0.851	0.833	0.787	0.922	11.53
73)		Carbazole	1.002	0.964	0.923	0.846	0.776	0.772	0.717	0.857	12.64
74)		Di-n-butylphth...	1.104	1.071	1.062	1.014	0.923	0.909	0.850	0.990	9.77
75)	C	Fluoranthene	1.149	1.108	1.036	0.943	0.842	0.835	0.772	0.955	15.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.457	0.461	0.293	0.366	0.276	0.203	0.246	0.329	30.86
78)		Pyrene	1.892	1.828	1.900	1.805	1.685	1.649	1.496	1.751	8.43
79)	S	Terphenyl-d14	1.381	1.335	1.340	1.244	1.154	1.121	1.018	1.227	10.96
80)		Butylbenzylpht...	0.490	0.513	0.536	0.555	0.535	0.531	0.514	0.525	3.99
81)		Benzo(a)anthra...	1.425	1.355	1.329	1.331	1.267	1.237	1.169	1.302	6.48
82)		3,3'-Dichlorob...	0.368	0.372	0.390	0.387	0.374	0.382	0.384	0.380	2.15
83)		Chrysene	1.325	1.244	1.234	1.167	1.134	1.151	1.101	1.194	6.52
84)		Bis(2-ethylhex...	0.520	0.539	0.577	0.626	0.620	0.626	0.614	0.589	7.48
85)	c	Di-n-octyl pht...		0.786	0.930	1.135	1.182	1.207	1.186	1.071	16.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.261	1.307	1.352	1.299	1.326	1.253	1.287	3.77
88)		Benzo(b)fluora...	1.317	1.240	1.319	1.196	1.105	1.239	1.111	1.218	7.15
89)		Benzo(k)fluora...	1.213	1.177	0.992	1.066	1.030	0.929	0.947	1.051	10.42
90)	C	Benzo(a)pyrene	1.030	1.024	1.018	1.025	0.974	0.999	0.947	1.002	3.12
91)		Dibenzo(a,h)an...	1.021	1.064	1.103	1.120	1.083	1.085	1.036	1.073	3.31
92)		Benzo(g,h,i)pe...	1.030	1.046	1.090	1.128	1.081	1.095	1.035	1.072	3.37

(#) = Out of Range

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/28/2024 09:32

Lab File ID: BF140075.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.476	1.412		-4.3	
2-Fluorophenol	1.278	1.198		-6.3	
Phenol-d6	1.655	1.537		-7.1	
1,4-Dichlorobenzene	1.498	1.486		-0.8	20.0
2-Methylphenol	1.114	1.050		-5.7	
3+4-Methylphenols	1.424	1.320		-7.3	
Nitrobenzene-d5	0.361	0.377		4.4	
Hexachloroethane	0.534	0.526		-1.5	
Nitrobenzene	0.396	0.397		0.3	
Hexachlorobutadiene	0.197	0.200		1.5	20.0
2,4,6-Trichlorophenol	0.382	0.375		-1.8	20.0
2-Fluorobiphenyl	1.210	1.195		-1.2	
2,4,5-Trichlorophenol	0.394	0.392		-0.5	
2,4-Dinitrotoluene	0.332	0.382		15.1	
2,4,6-Tribromophenol	0.187	0.197		5.3	
Hexachlorobenzene	0.232	0.233		0.4	
Pentachlorophenol	0.141	0.144		2.1	20.0
Terphenyl-d14	1.227	1.250		1.9	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140084.D
Acq On : 28 Oct 2024 13:51
Operator : RC/JU
Sample : P4578-06
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Time: Oct 28 14:22:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

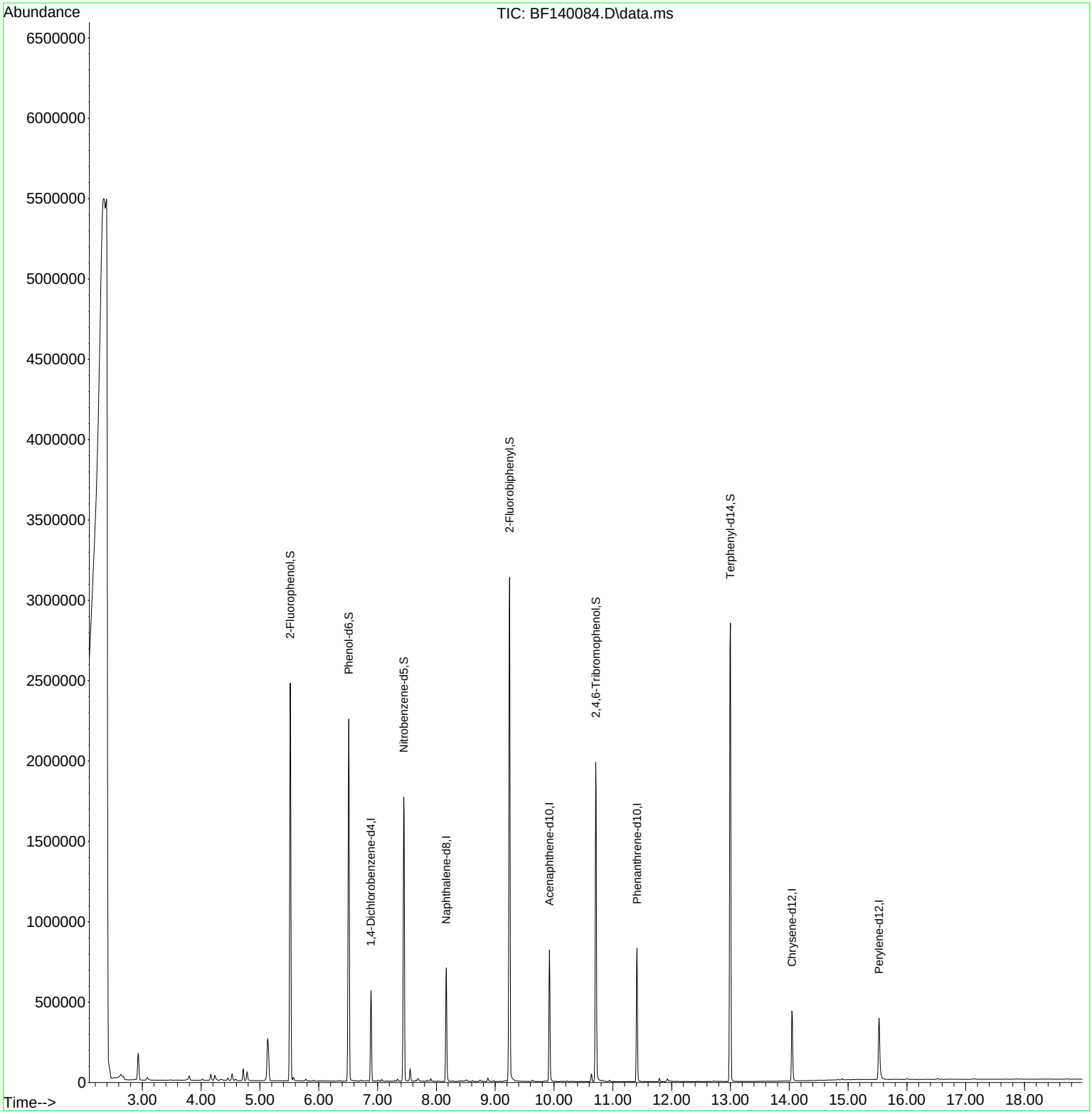
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	112580	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	438516	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	246067	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	437262	20.000	ng	0.00
76) Chrysene-d12	14.045	240	219498	20.000	ng	0.00
86) Perylene-d12	15.527	264	258448	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	938458	130.498	ng	0.02
7) Phenol-d6	6.510	99	1115782	119.796	ng	0.00
23) Nitrobenzene-d5	7.445	82	834614	105.486	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	367109	159.499	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1500601	100.787	ng	0.00
79) Terphenyl-d14	12.998	244	1489277	110.559	ng	0.00
Target Compounds						Qvalue

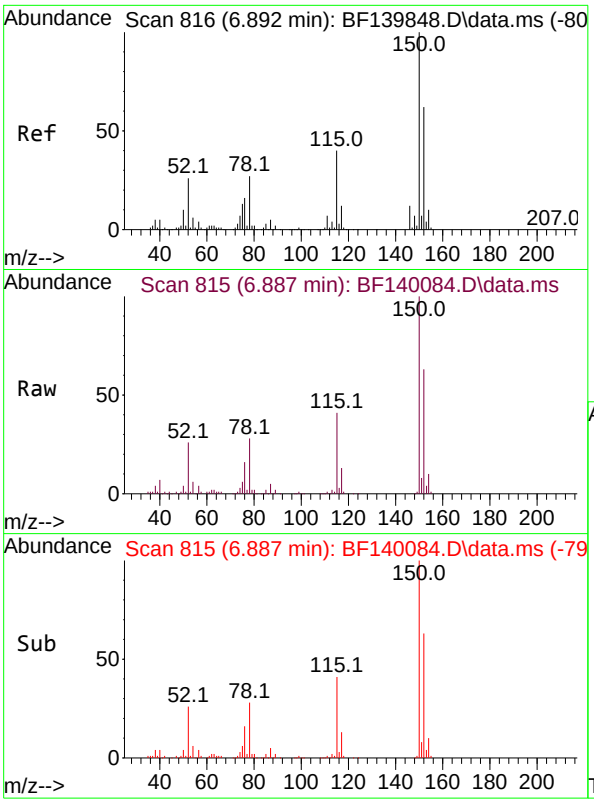
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140084.D
Acq On : 28 Oct 2024 13:51
Operator : RC/JU
Sample : P4578-06
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Time: Oct 28 14:22:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



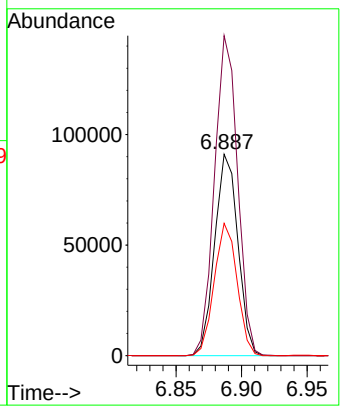


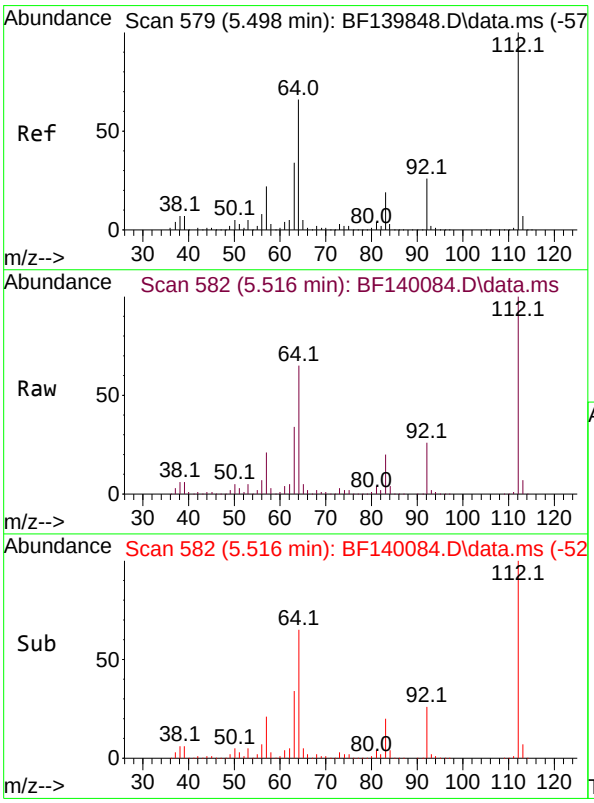
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:152 Resp: 112580

Ion	Ratio	Lower	Upper
152	100		
150	159.0	130.2	195.2
115	65.7	51.4	77.2

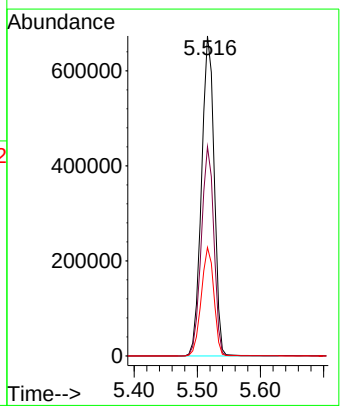


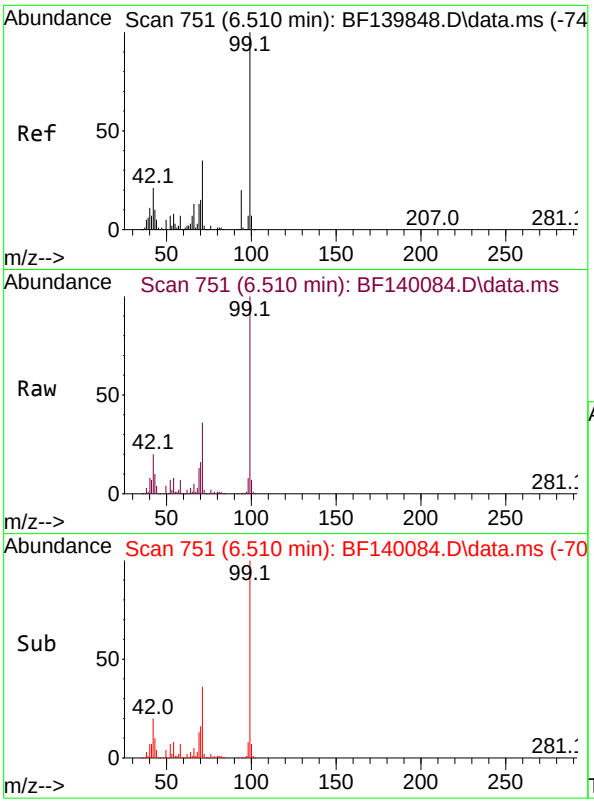


#5
2-Fluorophenol
Concen: 130.498 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:112 Resp: 938458

Ion	Ratio	Lower	Upper
112	100		
64	65.4	53.0	79.6
63	33.9	27.0	40.4



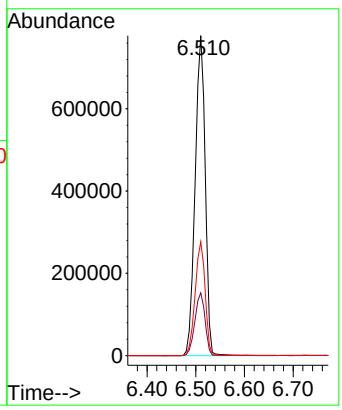


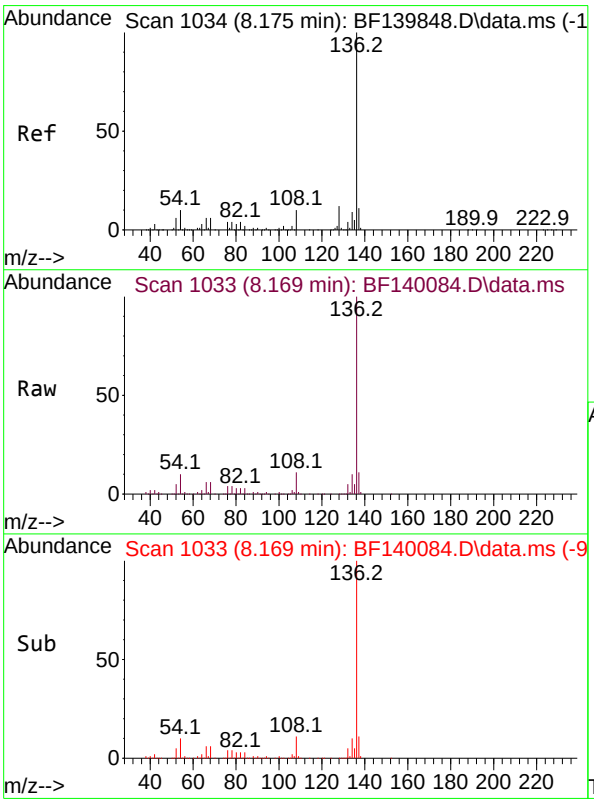
#7
Phenol-d6
Concen: 119.796 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion: 99 Resp: 1115782

Ion	Ratio	Lower	Upper
99	100		
42	19.6	16.7	25.1
71	35.6	27.7	41.5

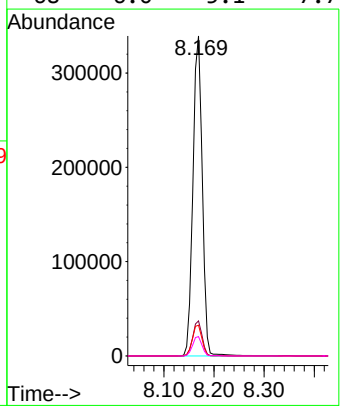


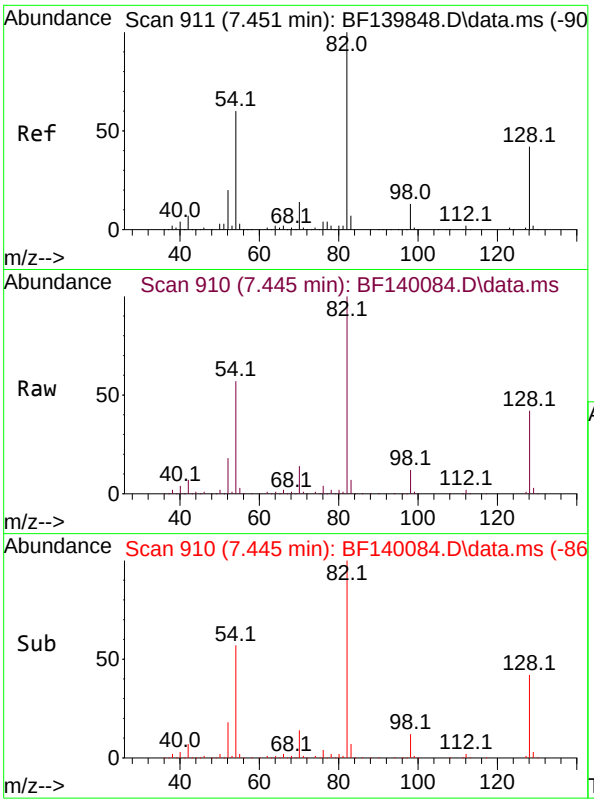


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:136 Resp: 438516

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.6	8.4	12.6
68	6.0	5.1	7.7



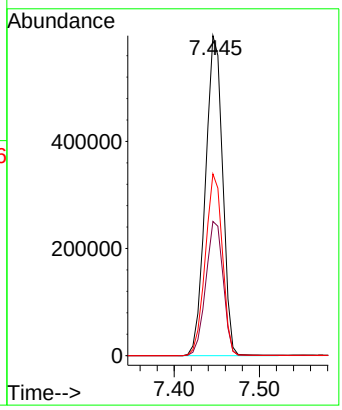


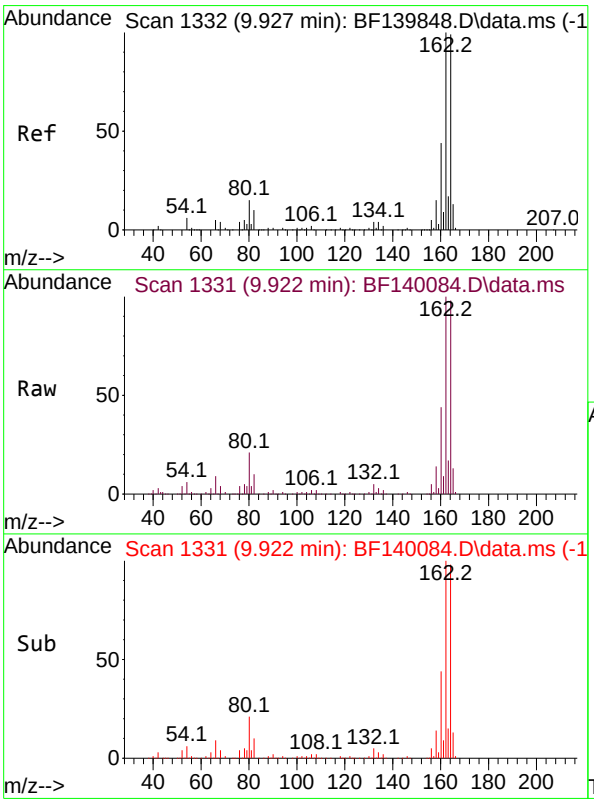
#23
Nitrobenzene-d5
Concen: 105.486 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion: 82 Resp: 834614

Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.4	50.0
54	56.8	47.8	71.8

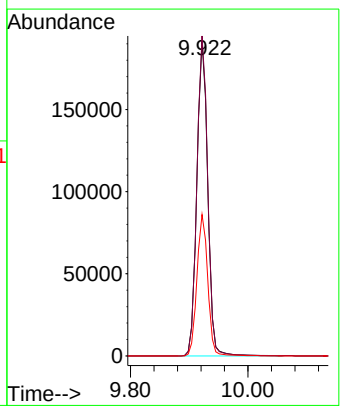


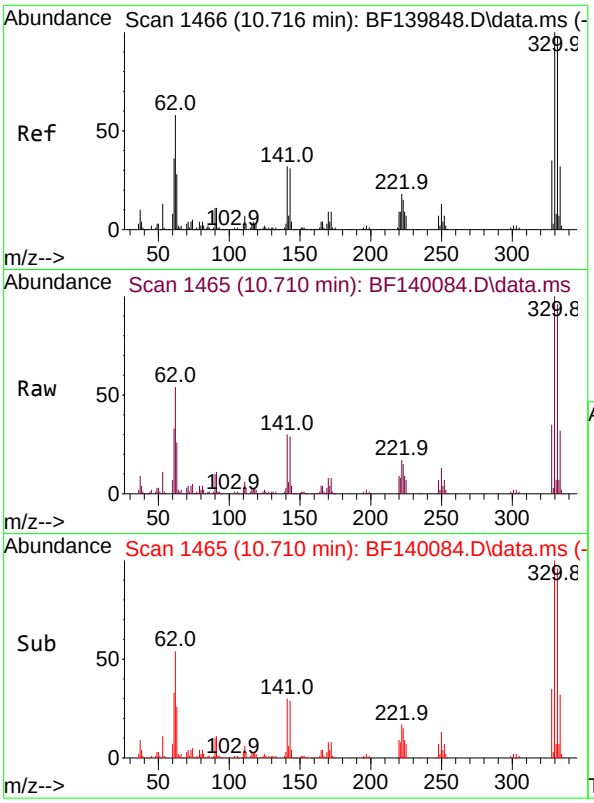


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:164 Resp: 246067

Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.0	121.4
160	44.9	35.4	53.0



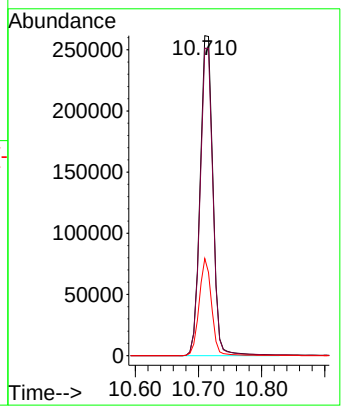


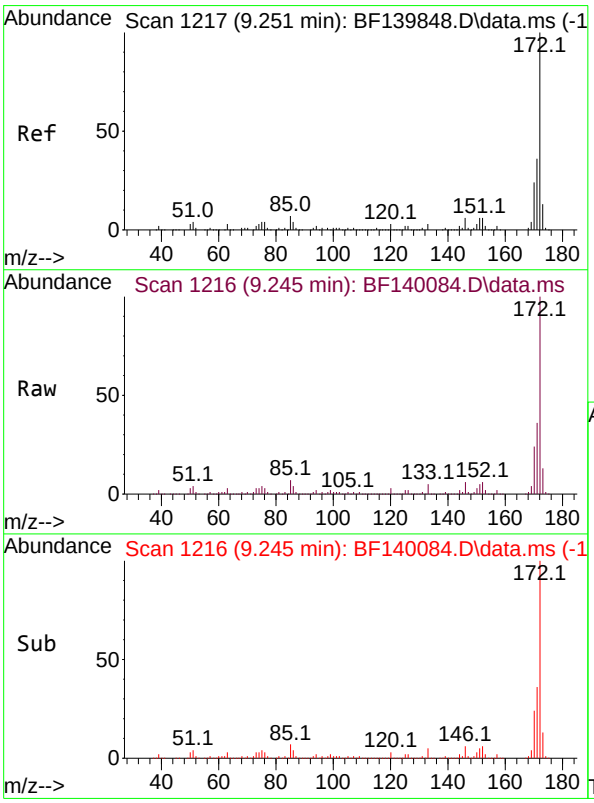
#42
2,4,6-Tribromophenol
Concen: 159.499 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:330 Resp: 367109

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.1	117.1
141	29.4	26.6	39.8

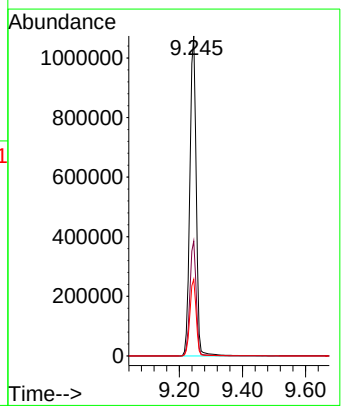


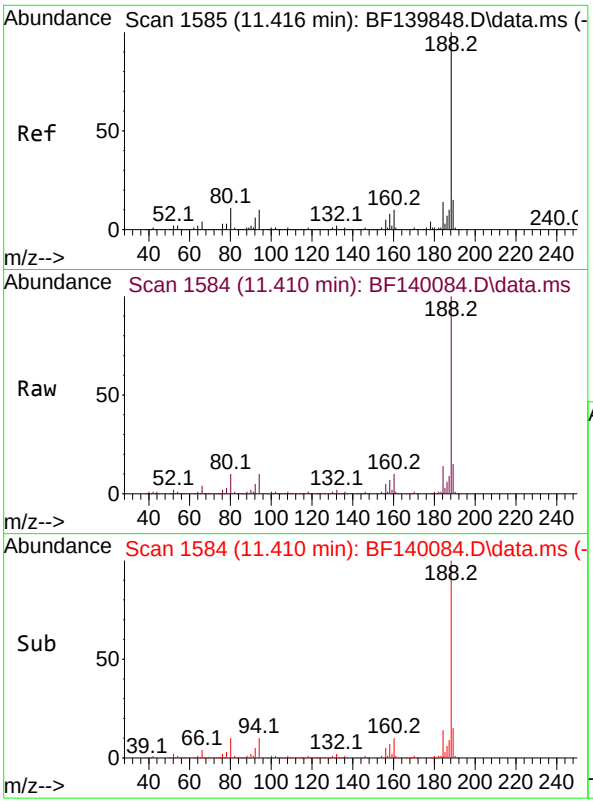


#45
2-Fluorobiphenyl
Concen: 100.787 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:172 Resp: 1500601

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	23.9	19.1	28.7



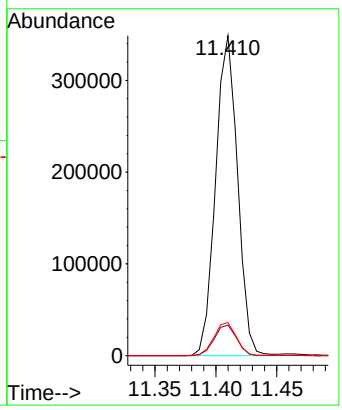


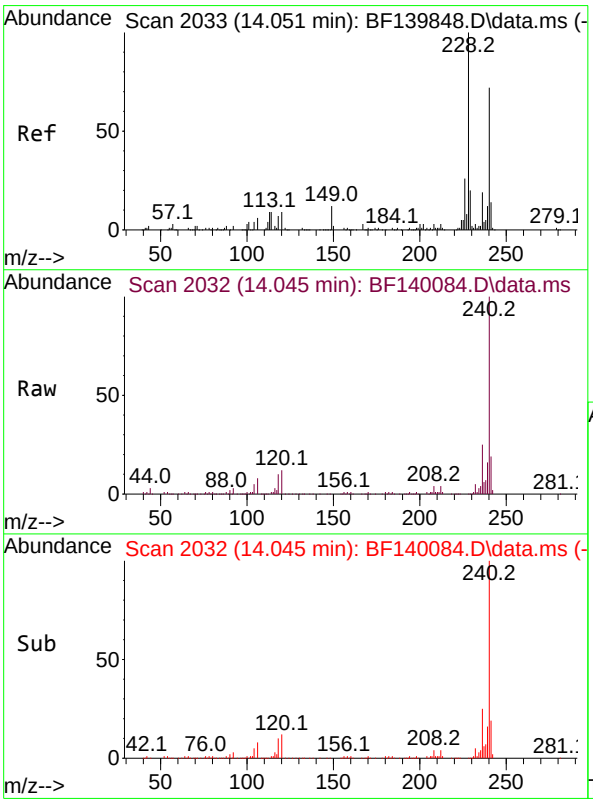
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:188 Resp: 437262

Ion	Ratio	Lower	Upper
188	100		
94	9.5	7.9	11.9
80	10.3	9.0	13.4

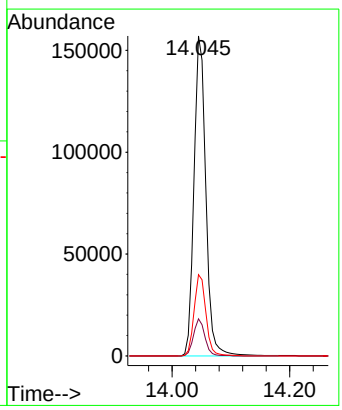


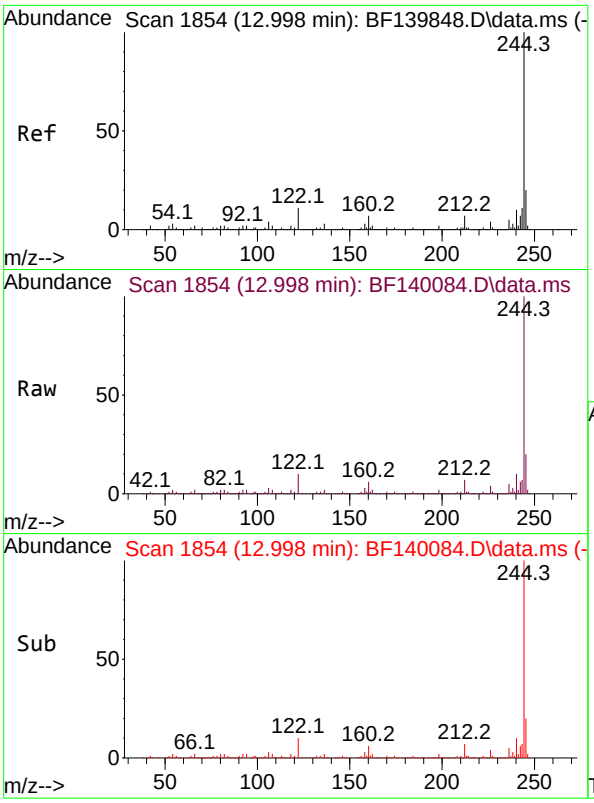


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:240 Resp: 219498

Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.4	14.2
236	25.4	20.9	31.3



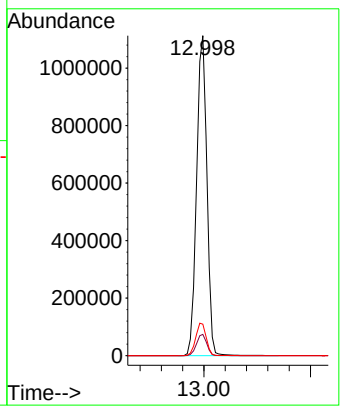


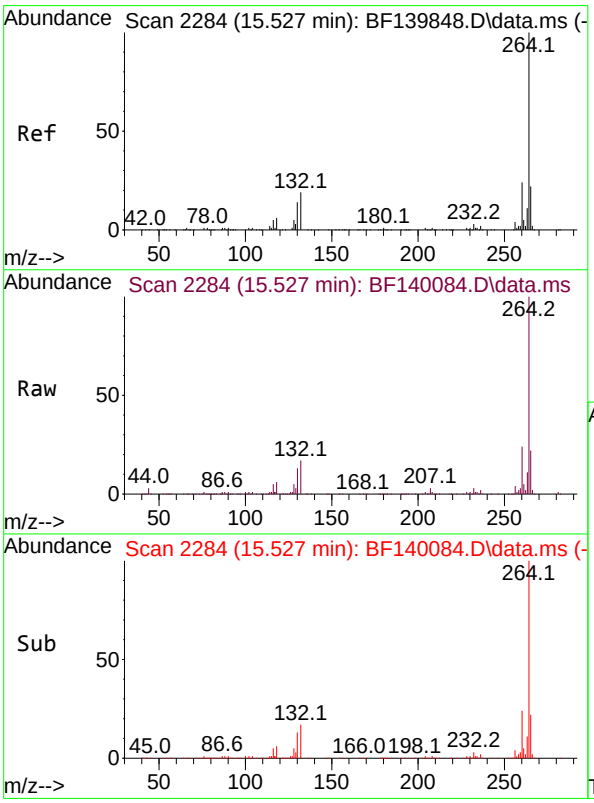
#79
Terphenyl-d14
Concen: 110.559 ng
RT: 12.998 min Scan# 18
Delta R.T. 0.000 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:244 Resp: 1489277

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	9.8	8.6	13.0

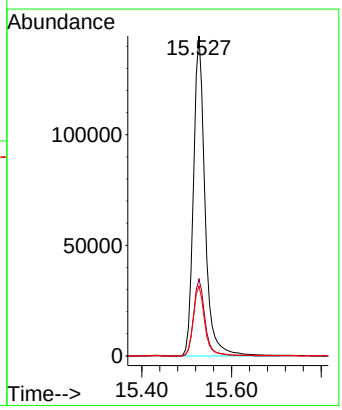




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:264 Resp: 258448

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	21.8	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140085.D
Acq On : 28 Oct 2024 14:19
Operator : RC/JU
Sample : P4578-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 28 14:45:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

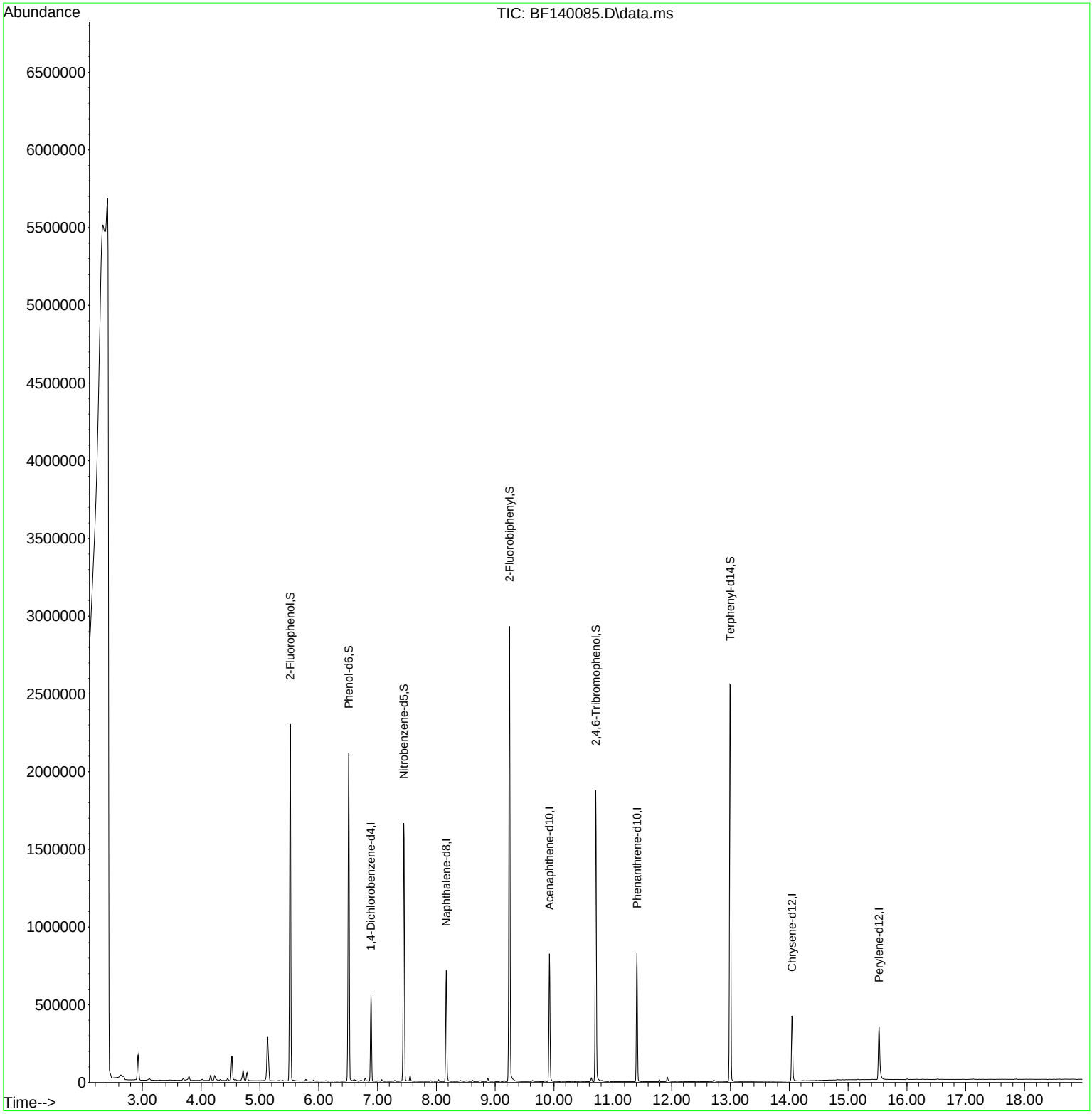
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	111257	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	441878	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	245603	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	437798	20.000	ng	0.00
76) Chrysene-d12	14.045	240	215751	20.000	ng	0.00
86) Perylene-d12	15.527	264	230540	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	863113	121.448	ng	0.02
7) Phenol-d6	6.510	99	1033565	112.289	ng	0.00
23) Nitrobenzene-d5	7.445	82	768626	96.407	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	338552	147.370	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1393721	93.785	ng	0.00
79) Terphenyl-d14	12.998	244	1353675	102.238	ng	0.00
Target Compounds						Qvalue

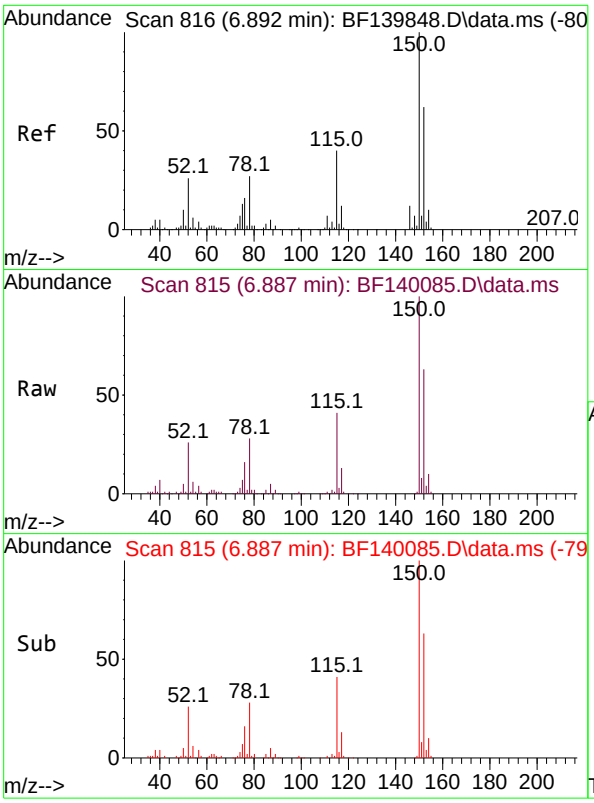
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140085.D
Acq On : 28 Oct 2024 14:19
Operator : RC/JU
Sample : P4578-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 28 14:45:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



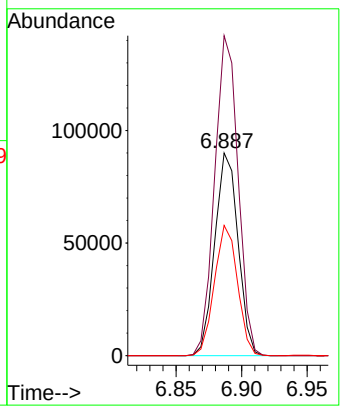


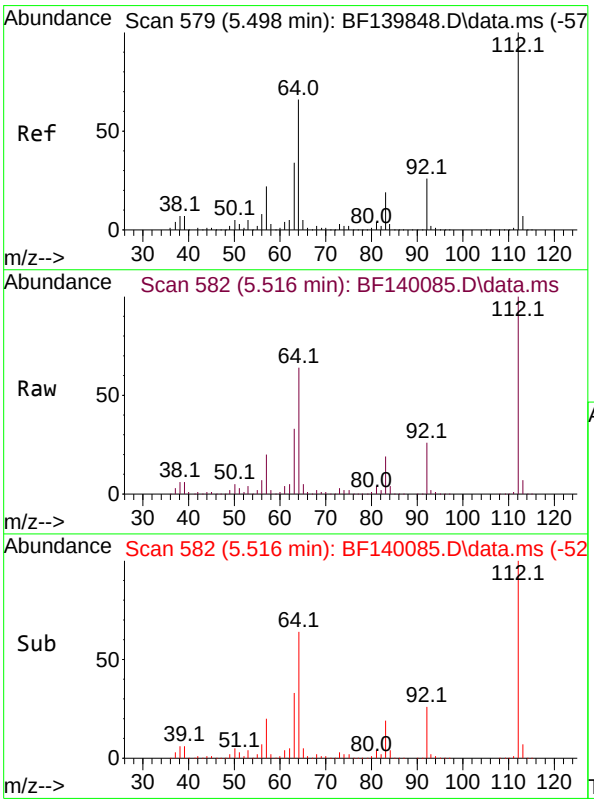
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:152 Resp: 111257

Ion	Ratio	Lower	Upper
152	100		
150	157.9	130.2	195.2
115	64.3	51.4	77.2

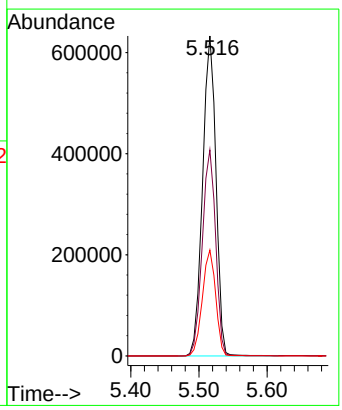


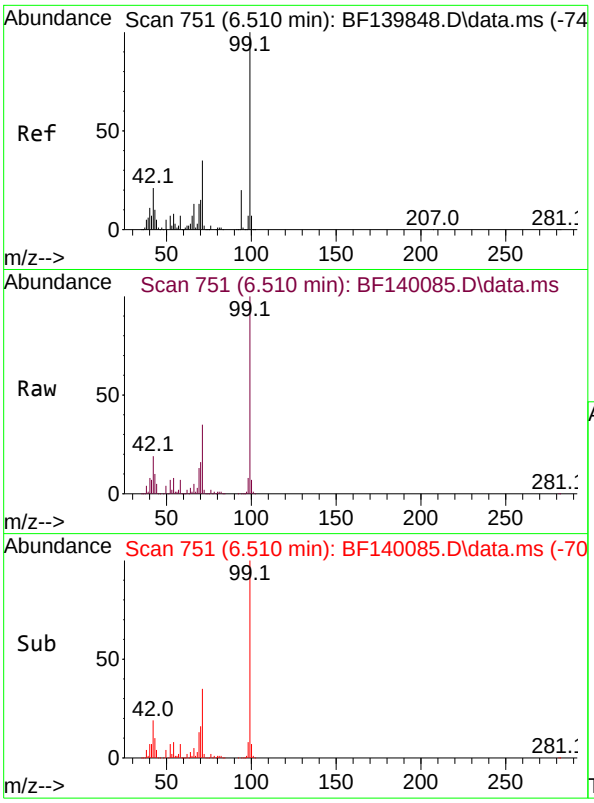


#5
2-Fluorophenol
Concen: 121.448 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:112 Resp: 863113

Ion	Ratio	Lower	Upper
112	100		
64	64.4	53.0	79.6
63	33.1	27.0	40.4



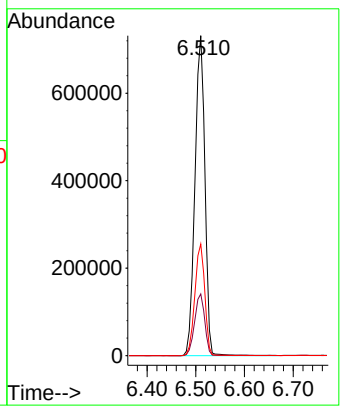


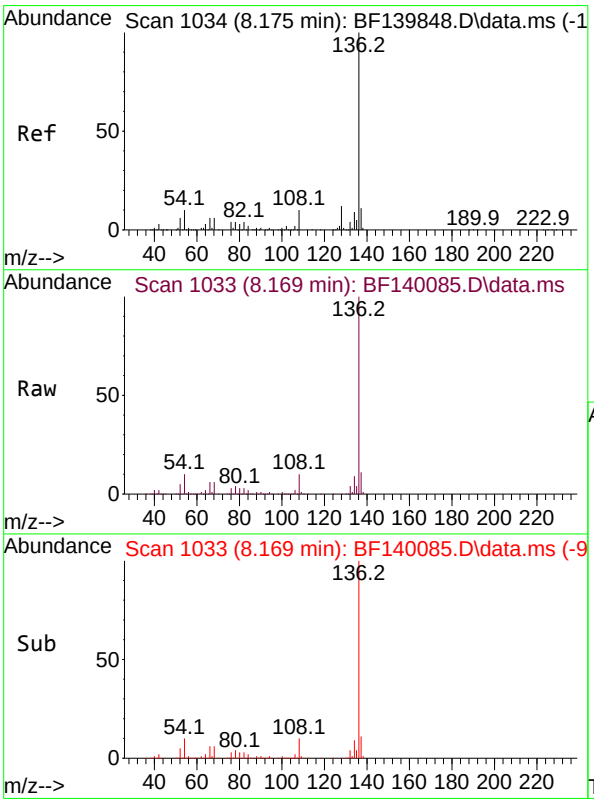
#7
Phenol-d6
Concen: 112.289 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 99 Resp: 1033565

Ion	Ratio	Lower	Upper
99	100		
42	19.3	16.7	25.1
71	34.9	27.7	41.5

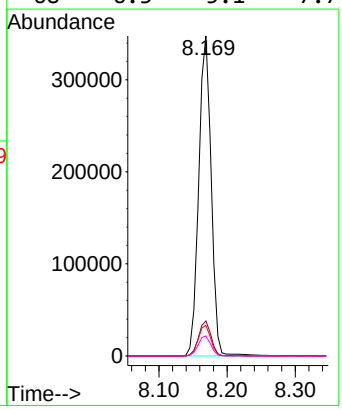


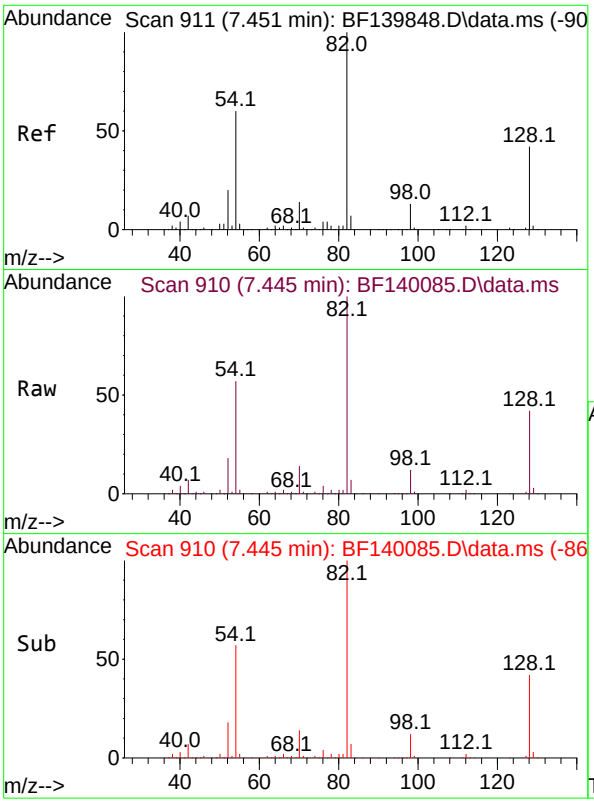


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:136 Resp: 441878

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.5	8.4	12.6
68	6.3	5.1	7.7



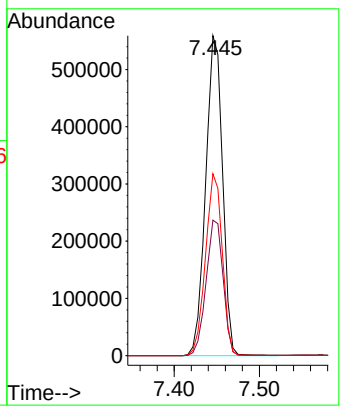


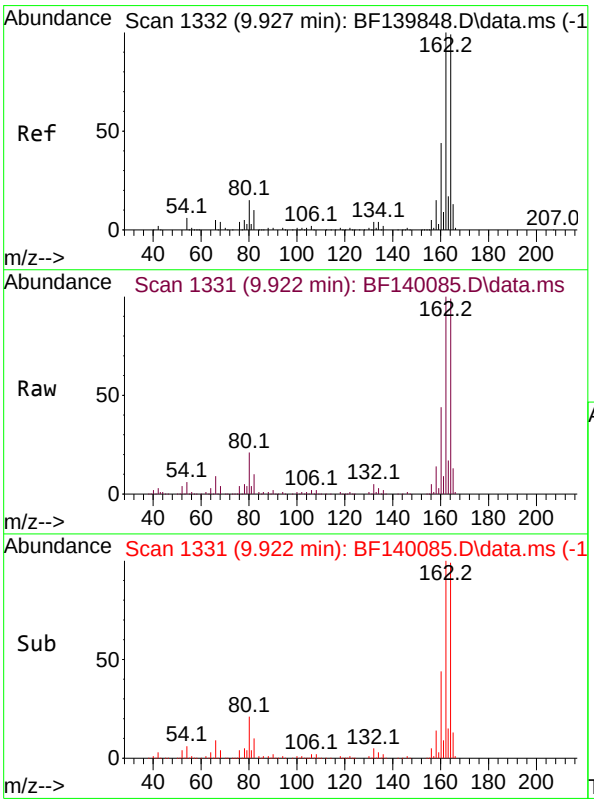
#23
Nitrobenzene-d5
Concen: 96.407 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 82 Resp: 768626

Ion	Ratio	Lower	Upper
82	100		
128	42.3	33.4	50.0
54	56.8	47.8	71.8

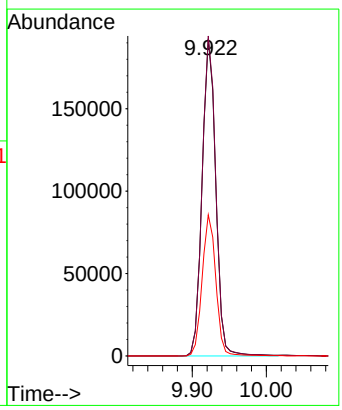


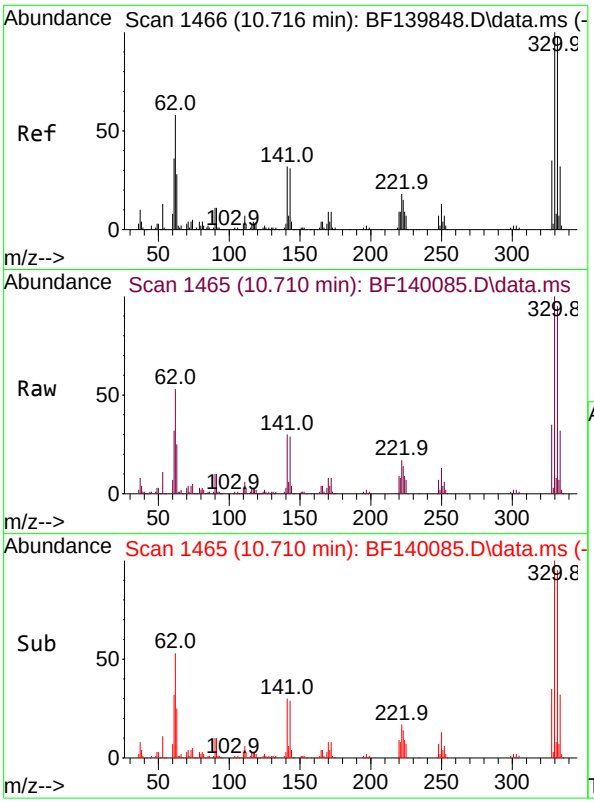


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:164 Resp: 245603

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.0	121.4
160	44.5	35.4	53.0



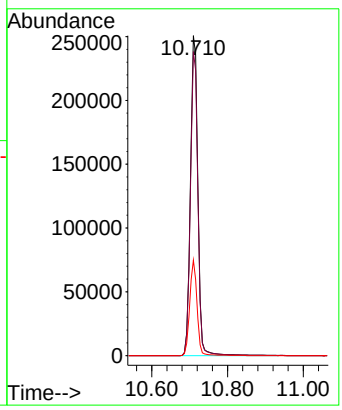


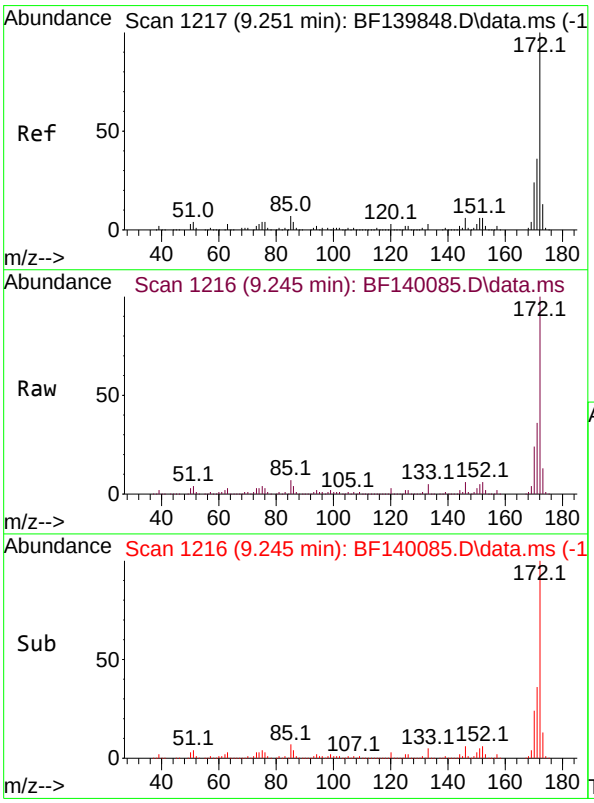
#42
2,4,6-Tribromophenol
Concen: 147.370 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:330 Resp: 338552

Ion	Ratio	Lower	Upper
330	100		
332	94.9	78.1	117.1
141	29.4	26.6	39.8

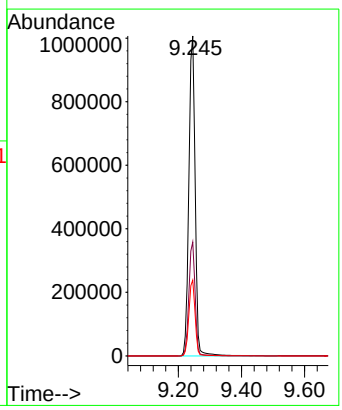


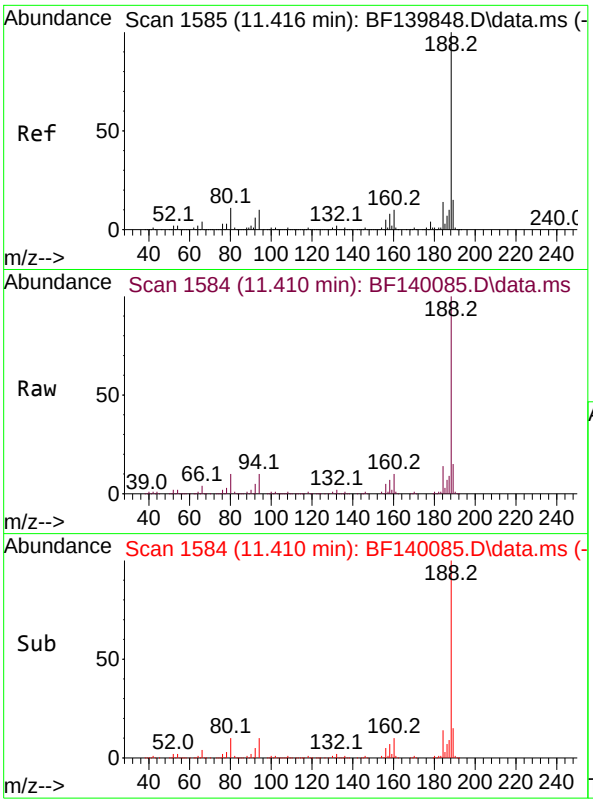


#45
2-Fluorobiphenyl
Concen: 93.785 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:172 Resp: 1393721

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	23.7	19.1	28.7



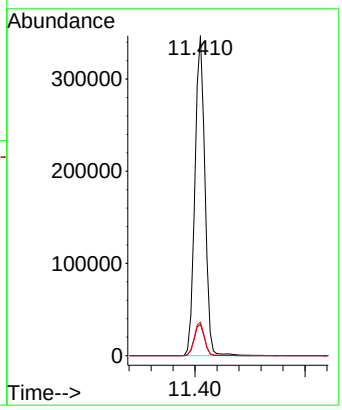


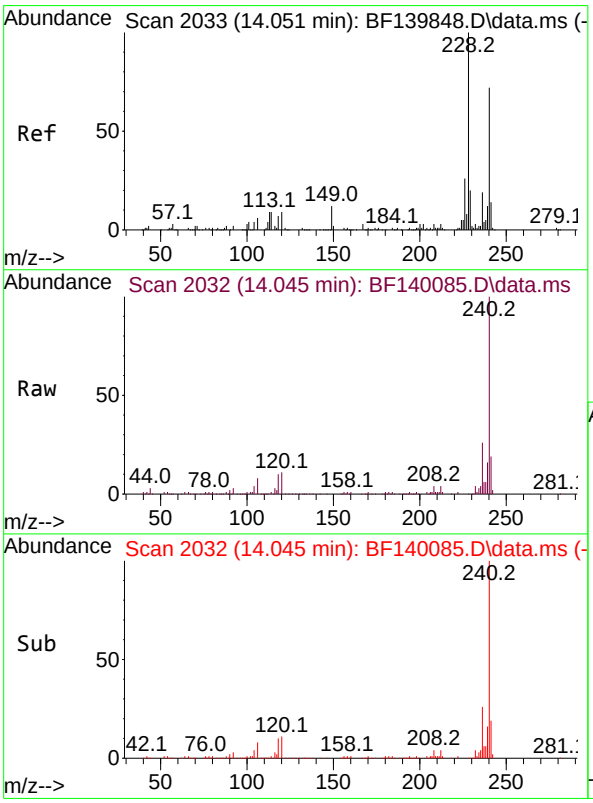
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:188 Resp: 437798

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.9	11.9
80	10.4	9.0	13.4

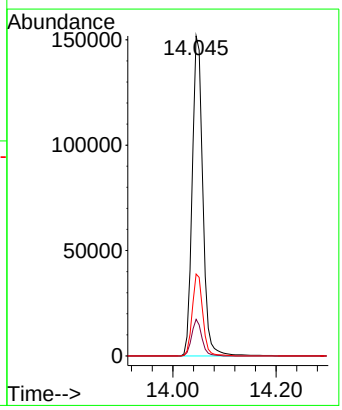


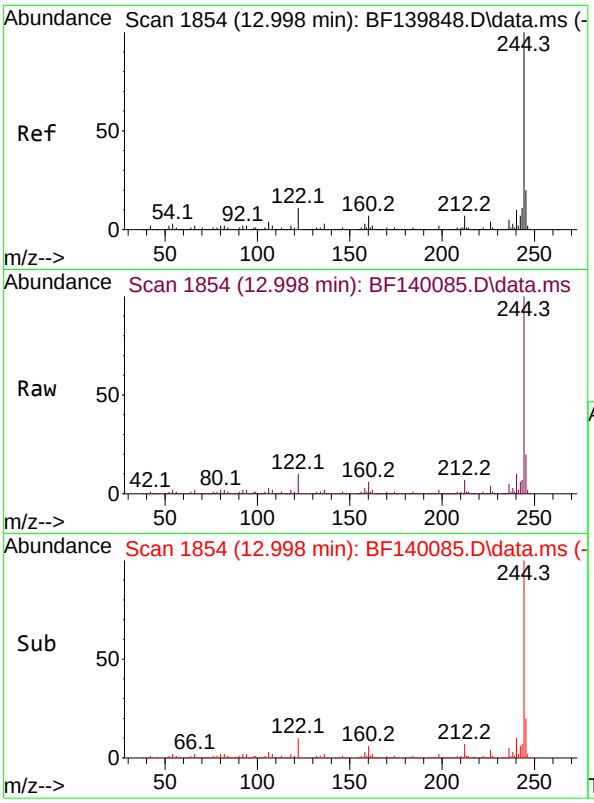


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:240 Resp: 215751

Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.4	14.2
236	25.6	20.9	31.3



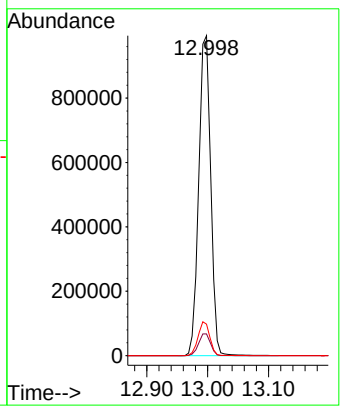


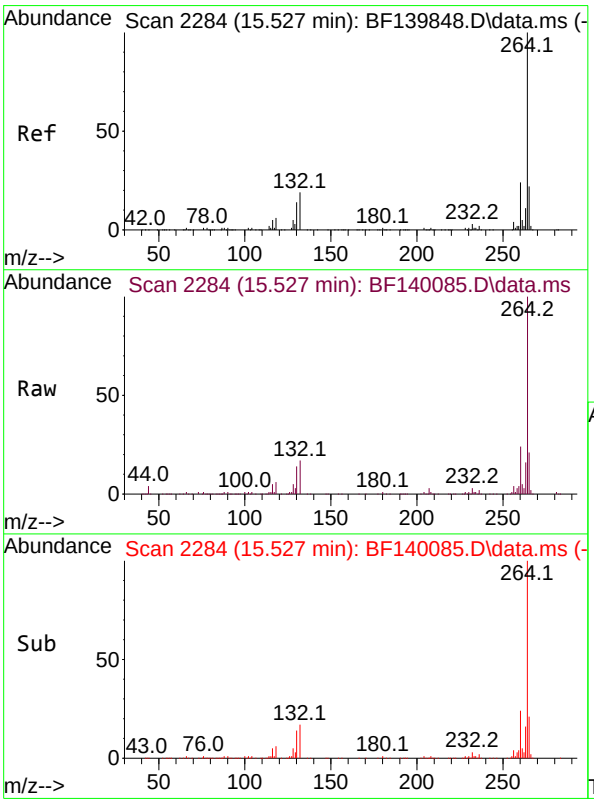
#79
Terphenyl-d14
Concen: 102.238 ng
RT: 12.998 min Scan# 18
Delta R.T. 0.000 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:244 Resp: 1353675

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	9.8	8.6	13.0

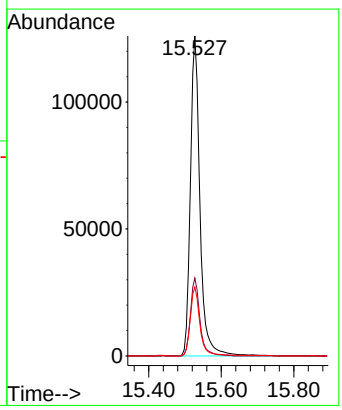




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:264 Resp: 230540

Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.2
265	21.5	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140078.D
Acq On : 28 Oct 2024 10:58
Operator : RC/JU
Sample : PB164393TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Quant Time: Oct 28 11:28:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

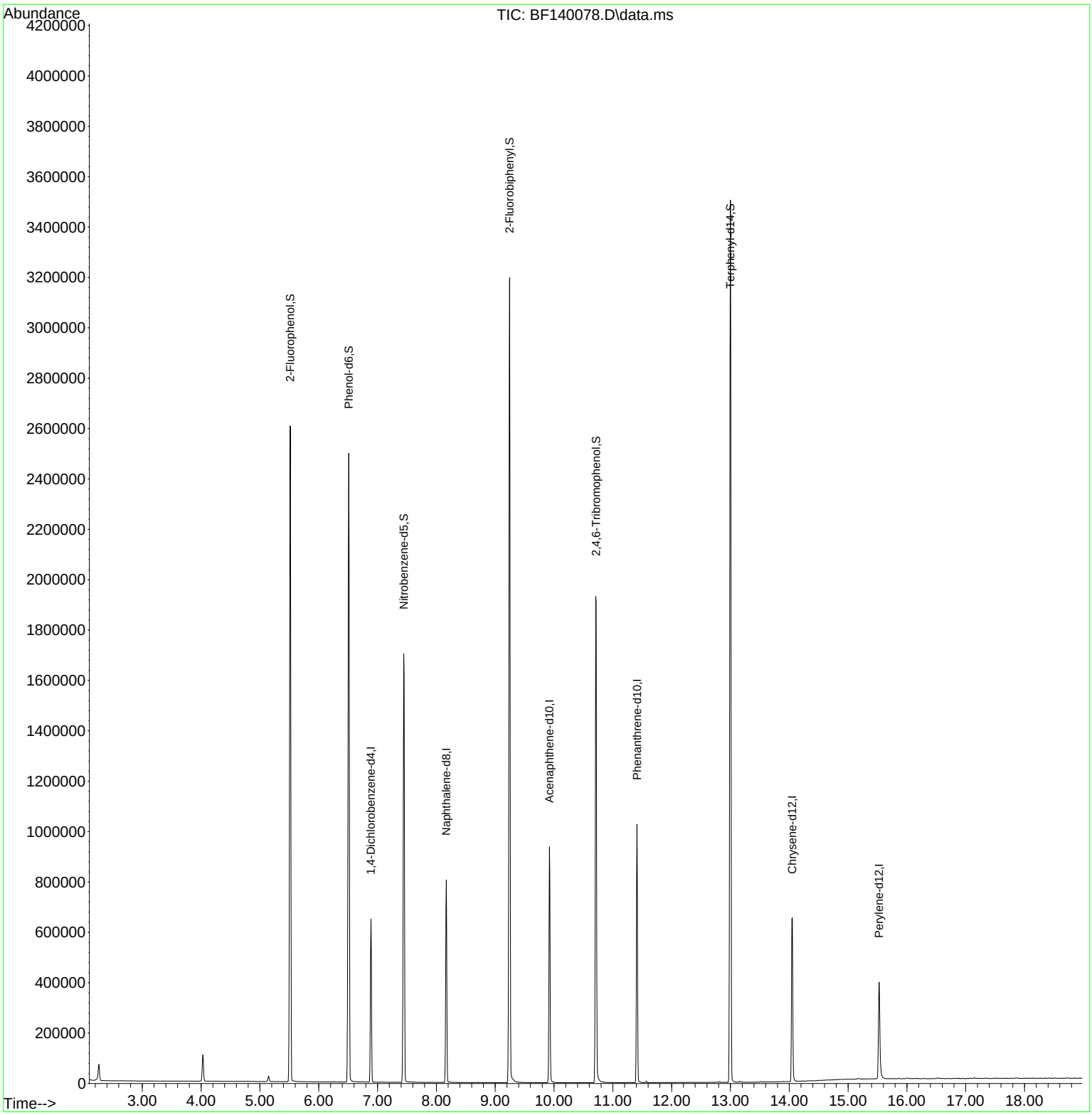
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	128211	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	508163	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	288600	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	536321	20.000	ng	0.00
76) Chrysene-d12	14.051	240	334195	20.000	ng	0.00
86) Perylene-d12	15.527	264	261975	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1001524	122.289	ng	0.02
7) Phenol-d6	6.510	99	1264624	119.224	ng	0.00
23) Nitrobenzene-d5	7.446	82	845367	92.201	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	368703	136.583	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1534211	87.858	ng	0.00
79) Terphenyl-d14	12.998	244	1821703	88.823	ng	0.00
Target Compounds						Qvalue

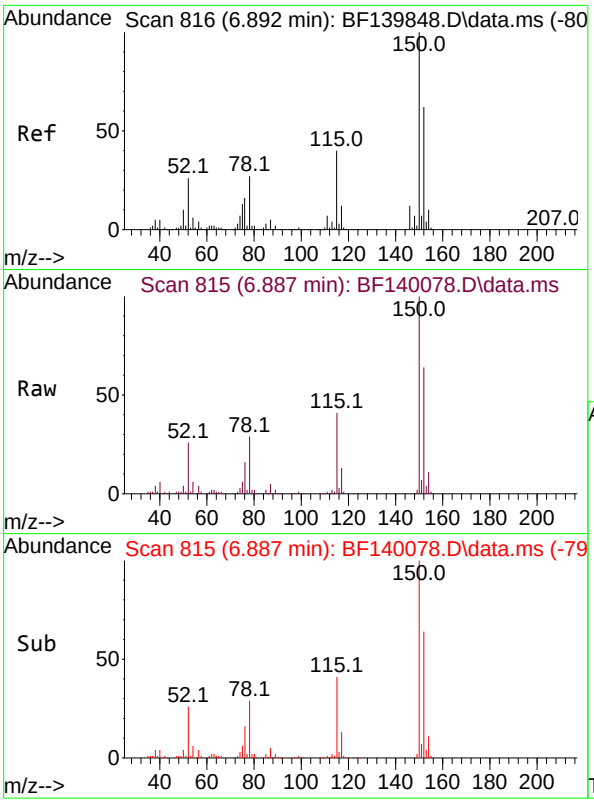
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140078.D
Acq On : 28 Oct 2024 10:58
Operator : RC/JU
Sample : PB164393TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Quant Time: Oct 28 11:28:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



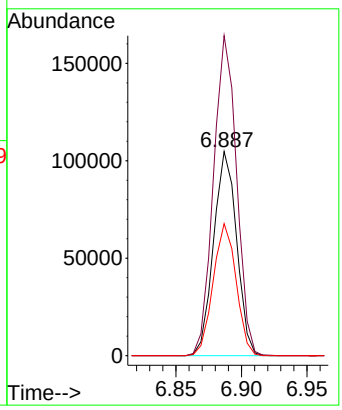


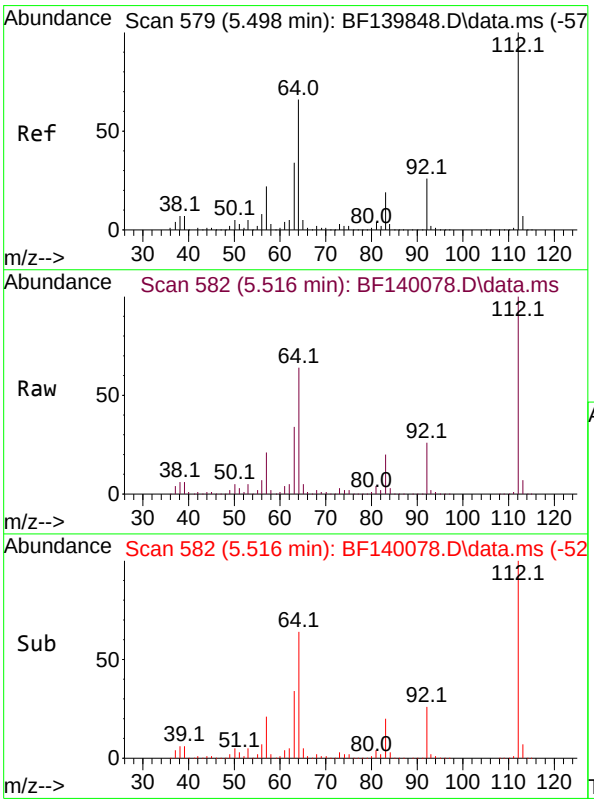
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion:152 Resp: 128211

Ion	Ratio	Lower	Upper
152	100		
150	156.8	130.2	195.2
115	64.7	51.4	77.2

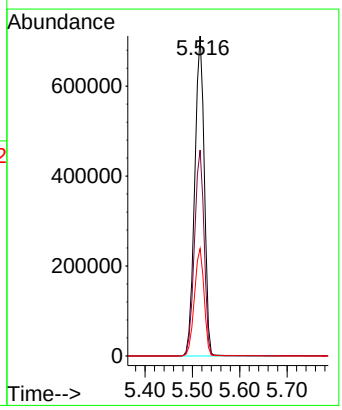


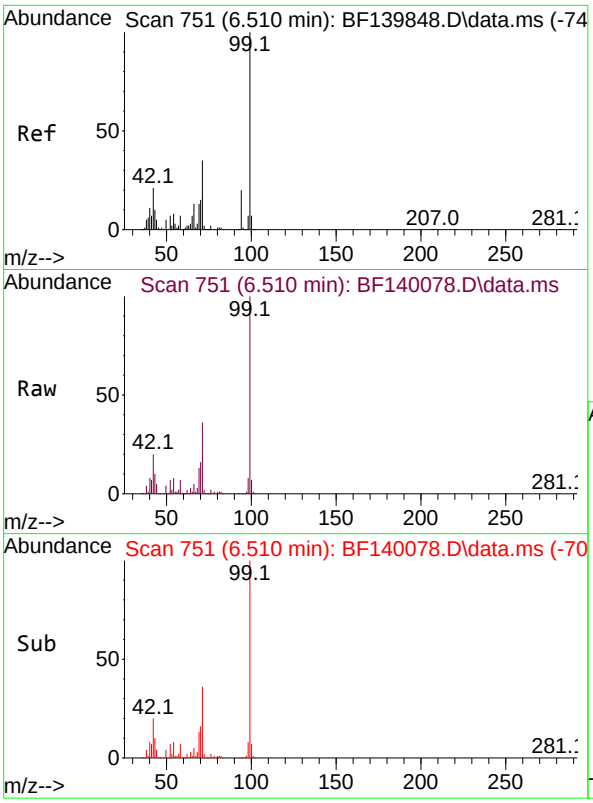


#5
2-Fluorophenol
Concen: 122.289 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:112 Resp: 1001524

Ion	Ratio	Lower	Upper
112	100		
64	64.3	53.0	79.6
63	33.5	27.0	40.4



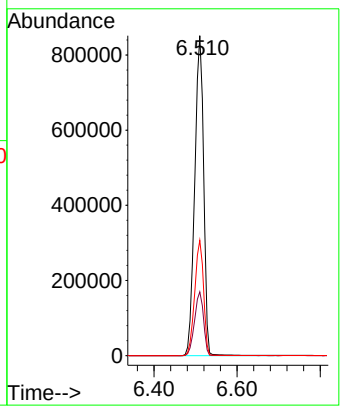


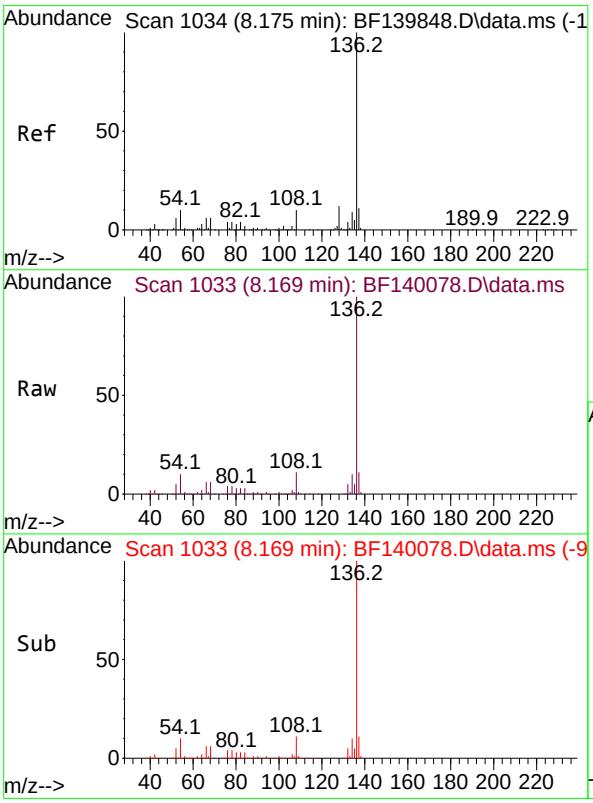
#7
Phenol-d6
Concen: 119.224 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion: 99 Resp: 1264624

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.7	25.1
71	36.0	27.7	41.5

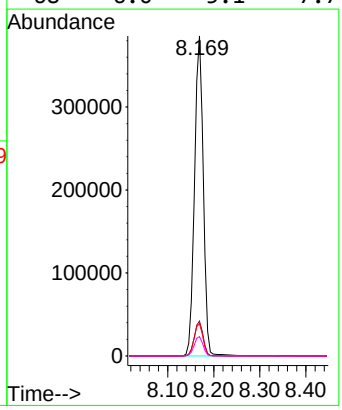


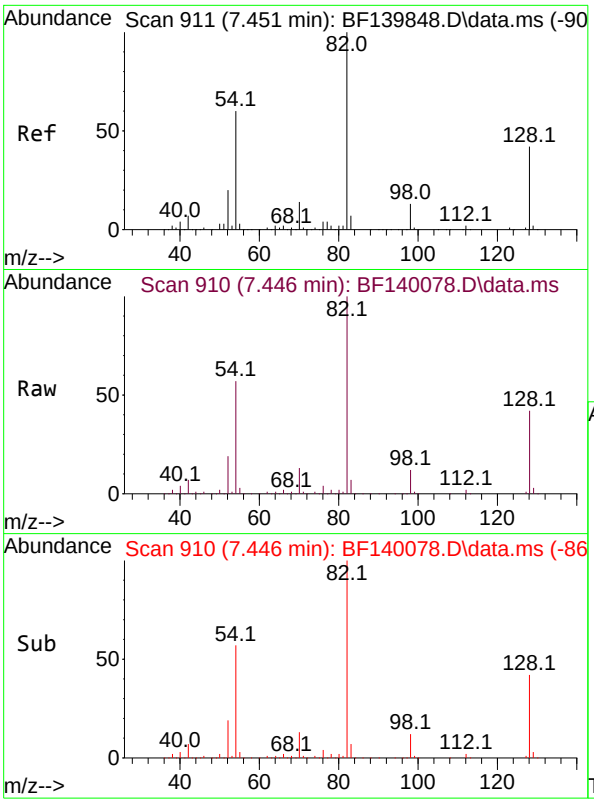


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:136 Resp: 508163

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.1	8.4	12.6
68	6.0	5.1	7.7



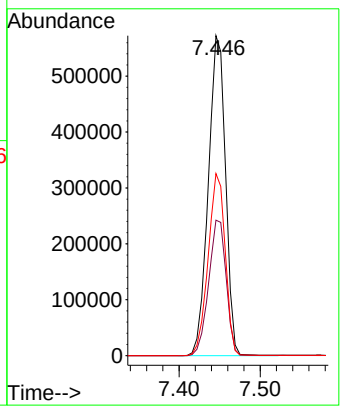


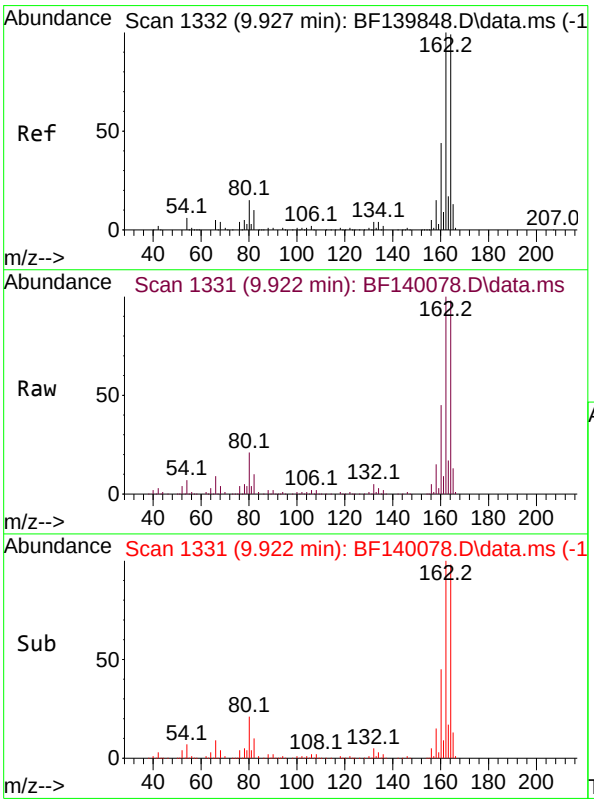
#23
Nitrobenzene-d5
Concen: 92.201 ng
RT: 7.446 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion: 82 Resp: 845367

Ion	Ratio	Lower	Upper
82	100		
128	42.3	33.4	50.0
54	56.9	47.8	71.8

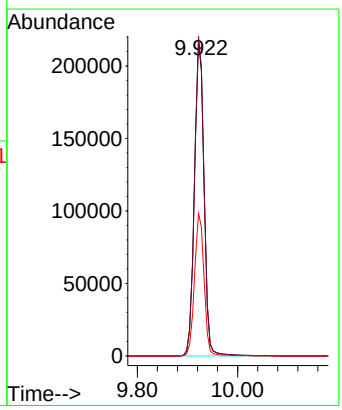


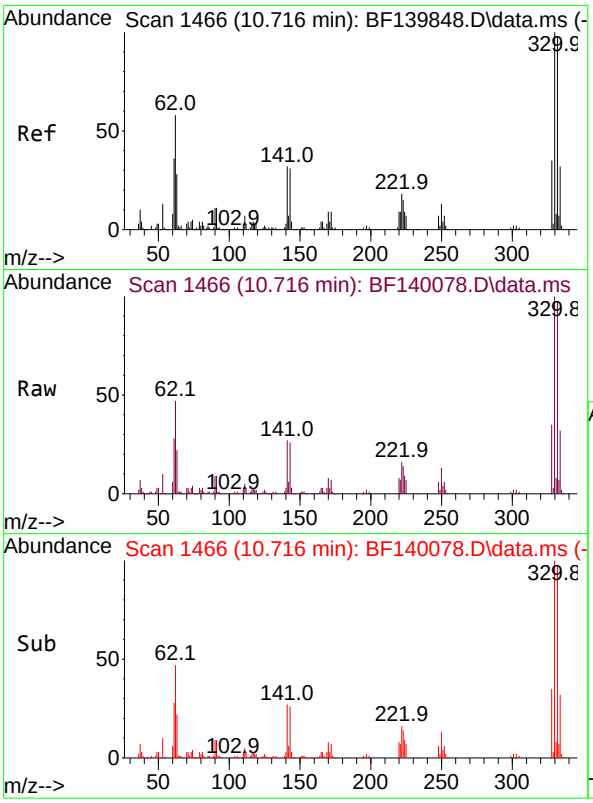


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:164 Resp: 288600

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.0	121.4
160	45.2	35.4	53.0



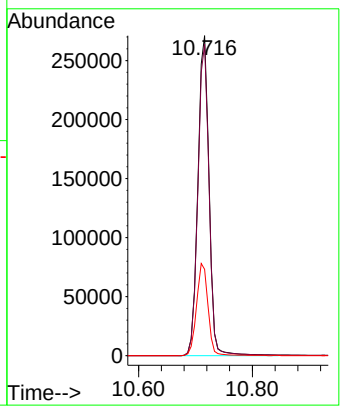


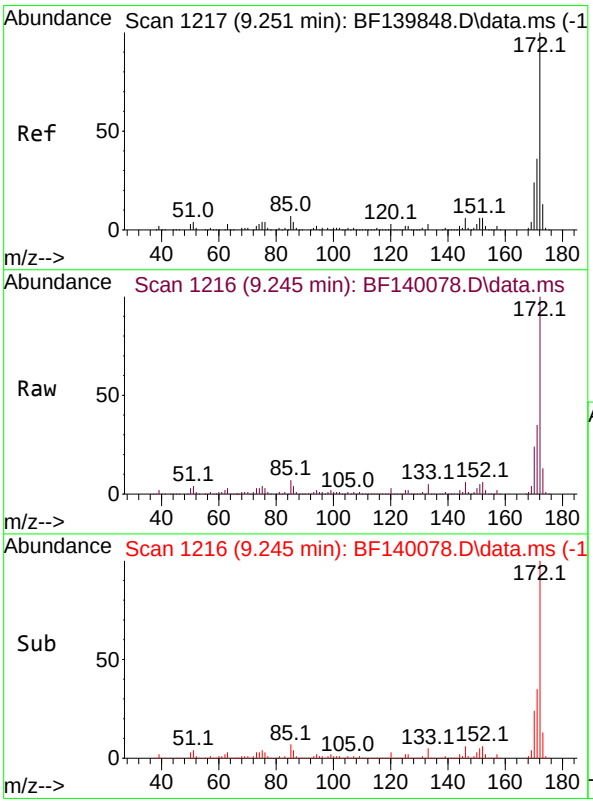
#42
2,4,6-Tribromophenol
Concen: 136.583 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion:330 Resp: 368703

Ion	Ratio	Lower	Upper
330	100		
332	97.6	78.1	117.1
141	29.6	26.6	39.8

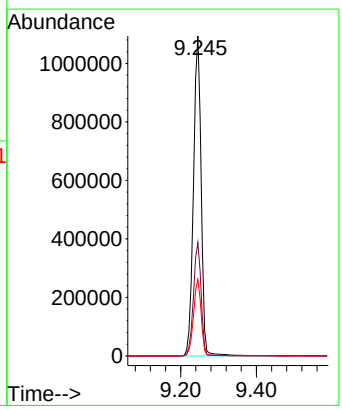


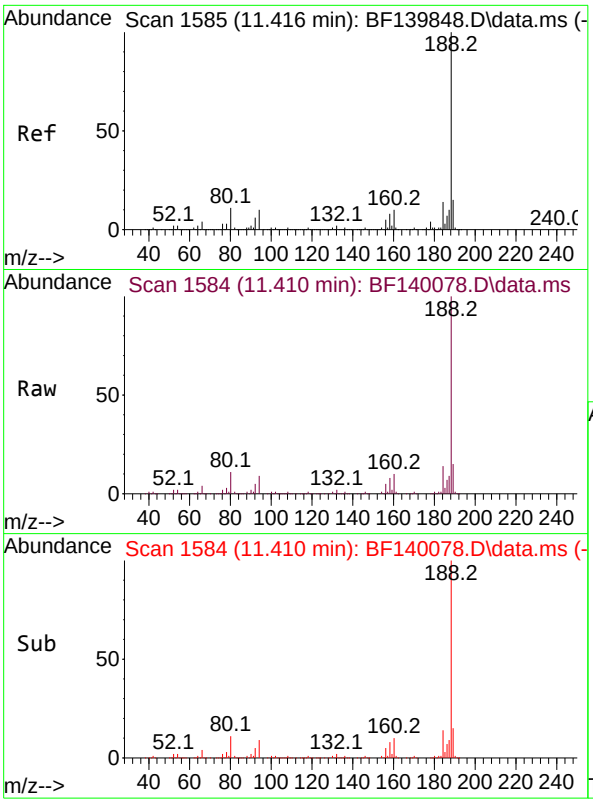


#45
2-Fluorobiphenyl
Concen: 87.858 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:172 Resp: 1534211

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	23.8	19.1	28.7



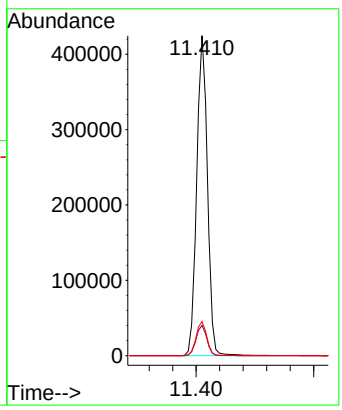


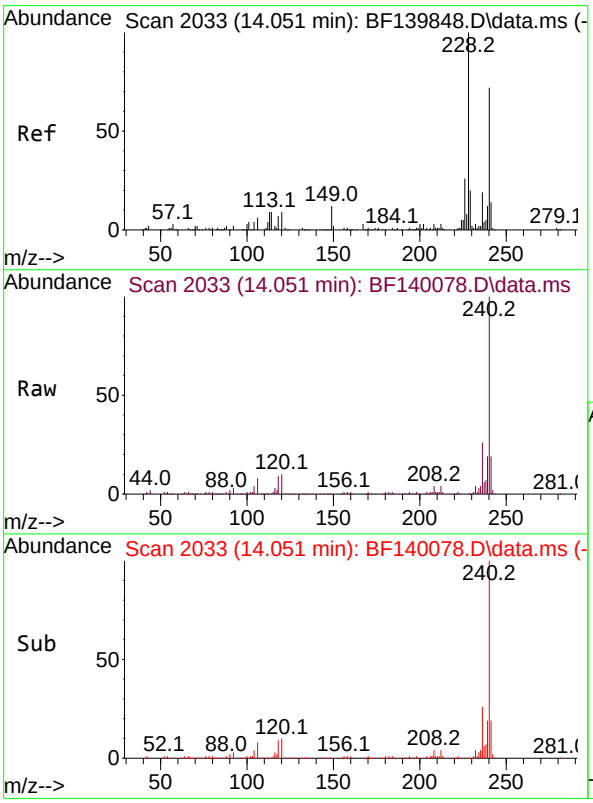
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion:188 Resp: 536321

Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.9	11.9
80	10.6	9.0	13.4

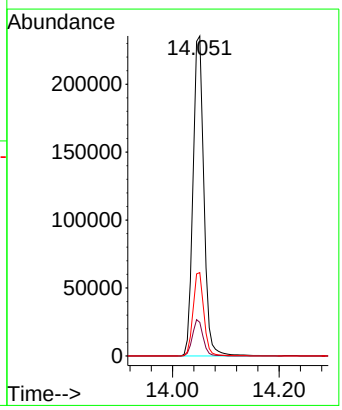


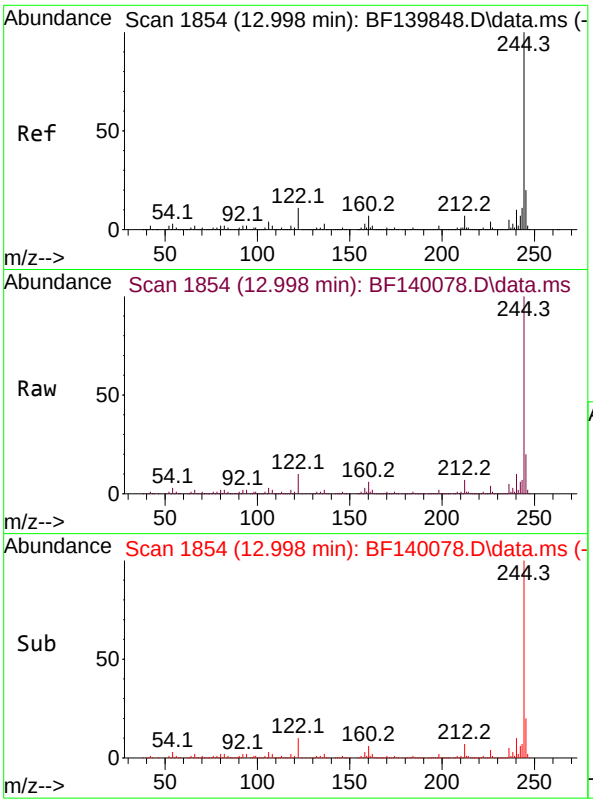


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:240 Resp: 334195

Ion	Ratio	Lower	Upper
240	100		
120	10.5	9.4	14.2
236	26.0	20.9	31.3



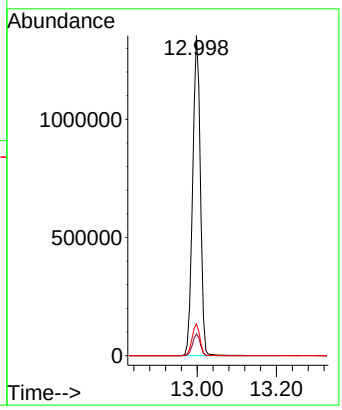


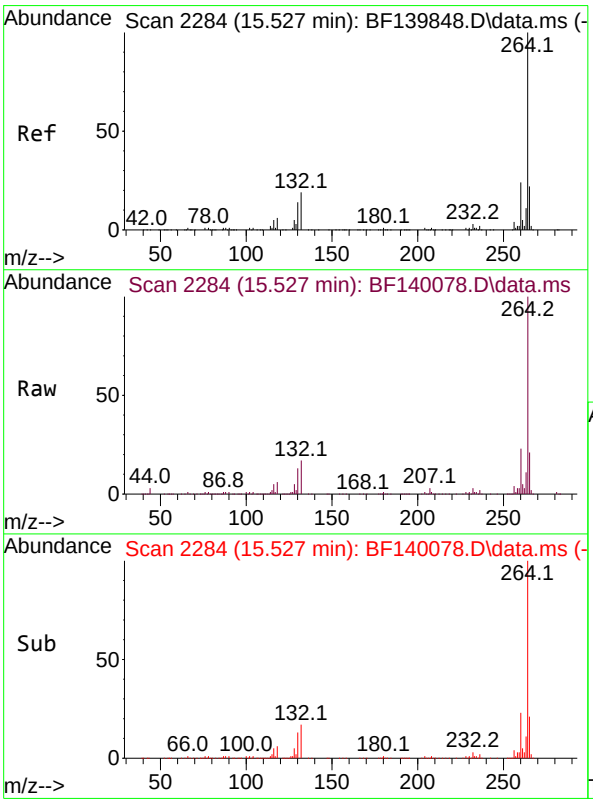
#79
Terphenyl-d14
Concen: 88.823 ng
RT: 12.998 min Scan# 18
Delta R.T. 0.000 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion:244 Resp: 1821703

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	9.9	8.6	13.0

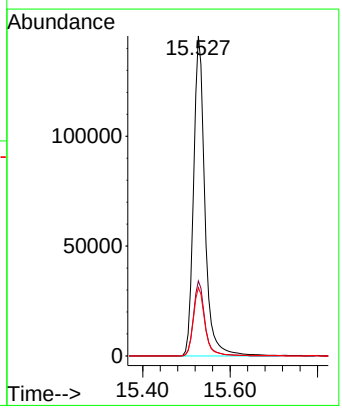




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:264 Resp: 261975

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.4	29.2
265	21.3	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140076.D
Acq On : 28 Oct 2024 10:01
Operator : RC/JU
Sample : PB164444BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Quant Time: Oct 28 11:22:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

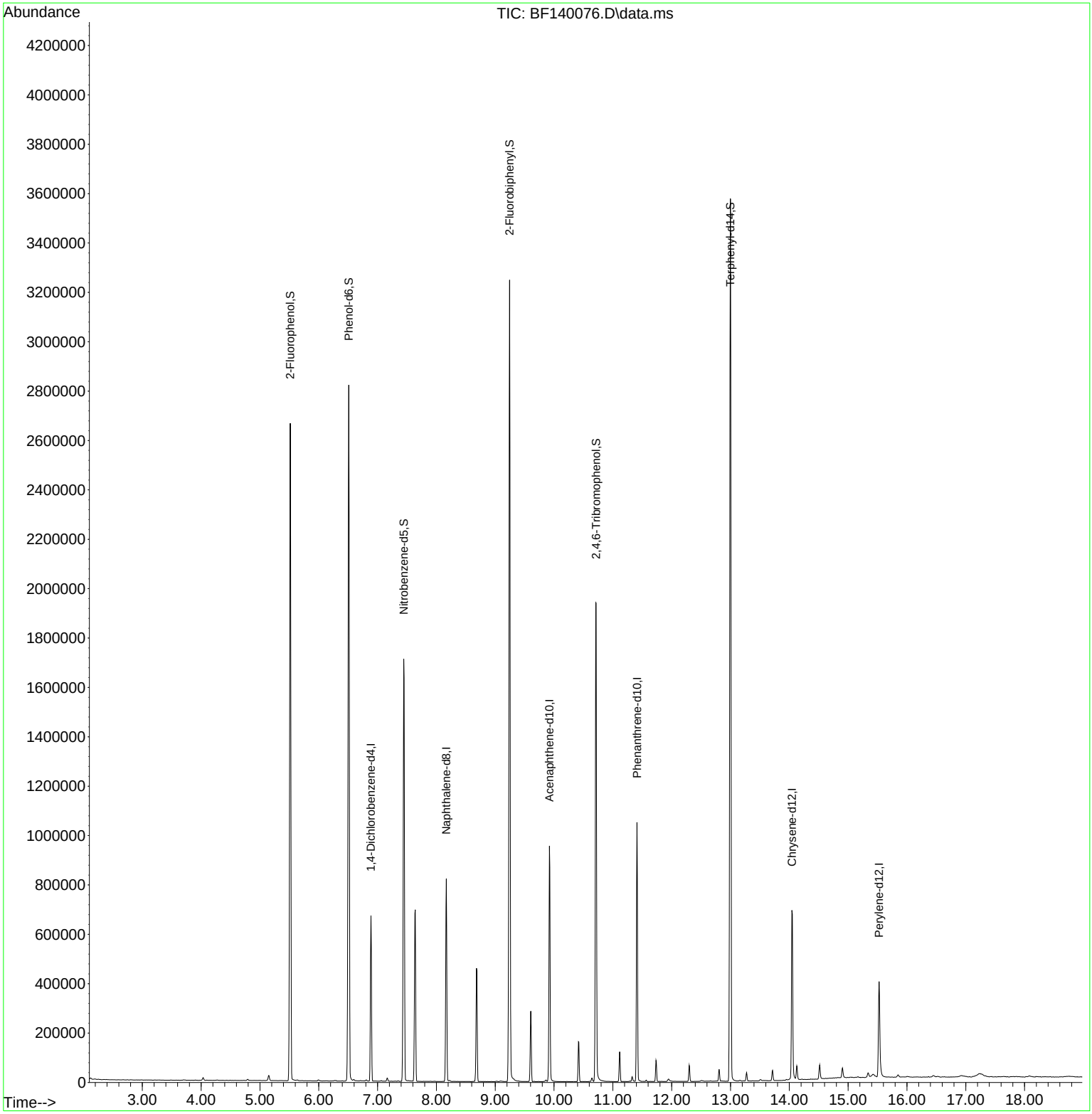
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	132330	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	518019	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	298114	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	550598	20.000	ng	0.00
76) Chrysene-d12	14.045	240	341644	20.000	ng	0.00
86) Perylene-d12	15.527	264	261224	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1015752	120.165	ng	0.02
7) Phenol-d6	6.510	99	1244979	113.718	ng	0.00
23) Nitrobenzene-d5	7.445	82	849954	90.938	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	370207	132.764	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1571487	87.121	ng	0.00
79) Terphenyl-d14	12.998	244	1868766	89.131	ng	0.00
Target Compounds						Qvalue

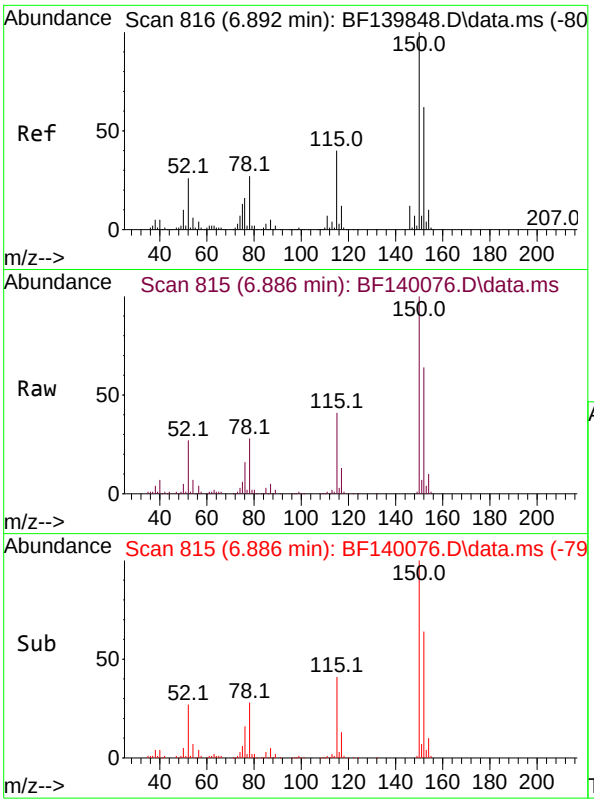
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140076.D
Acq On : 28 Oct 2024 10:01
Operator : RC/JU
Sample : PB164444BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Quant Time: Oct 28 11:22:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



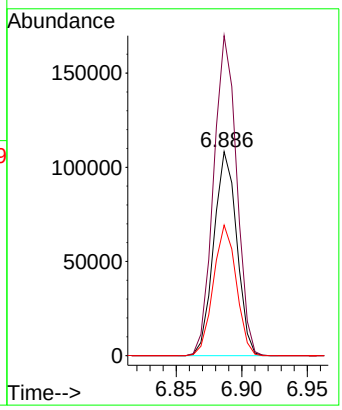


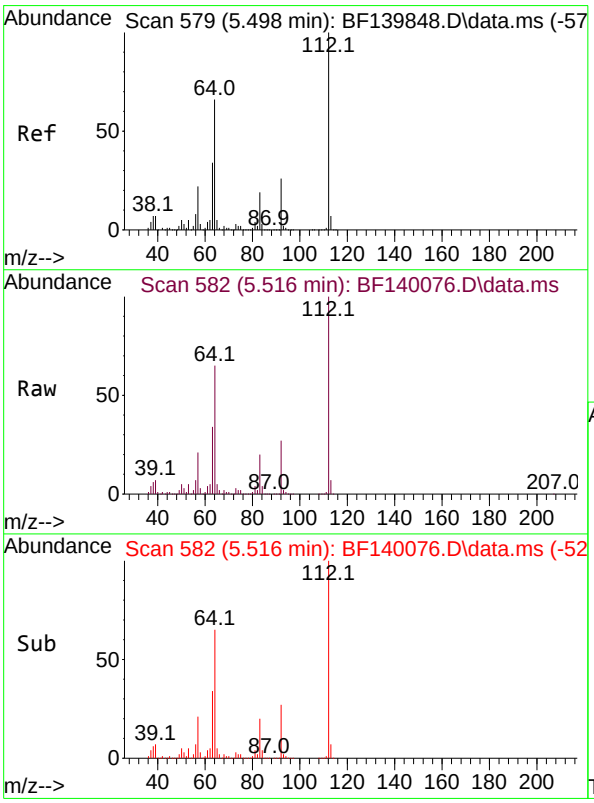
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion:152 Resp: 132330

Ion	Ratio	Lower	Upper
152	100		
150	156.9	130.2	195.2
115	63.9	51.4	77.2

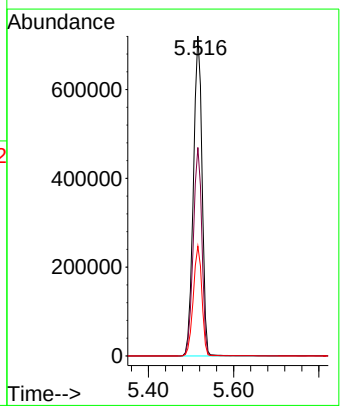


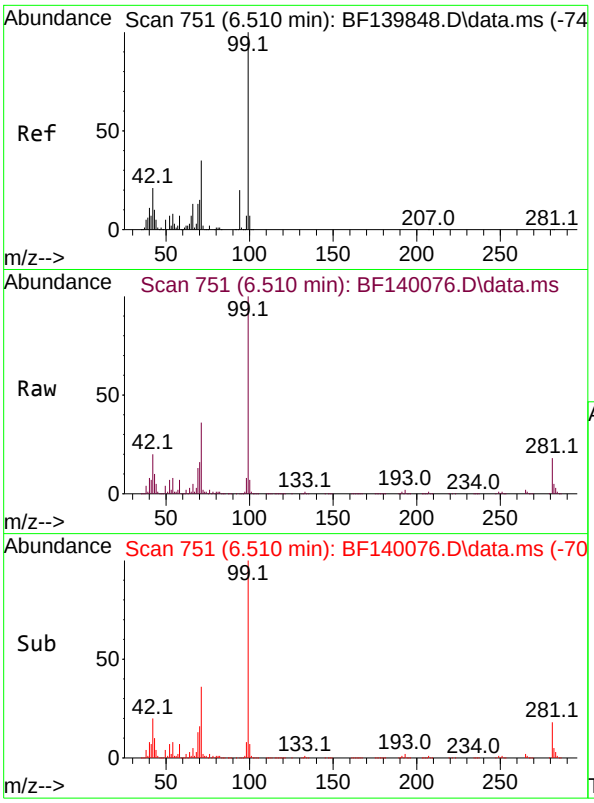


#5
2-Fluorophenol
Concen: 120.165 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:112 Resp: 1015752

Ion	Ratio	Lower	Upper
112	100		
64	65.1	53.0	79.6
63	34.3	27.0	40.4



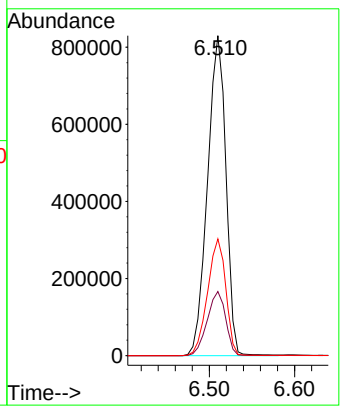


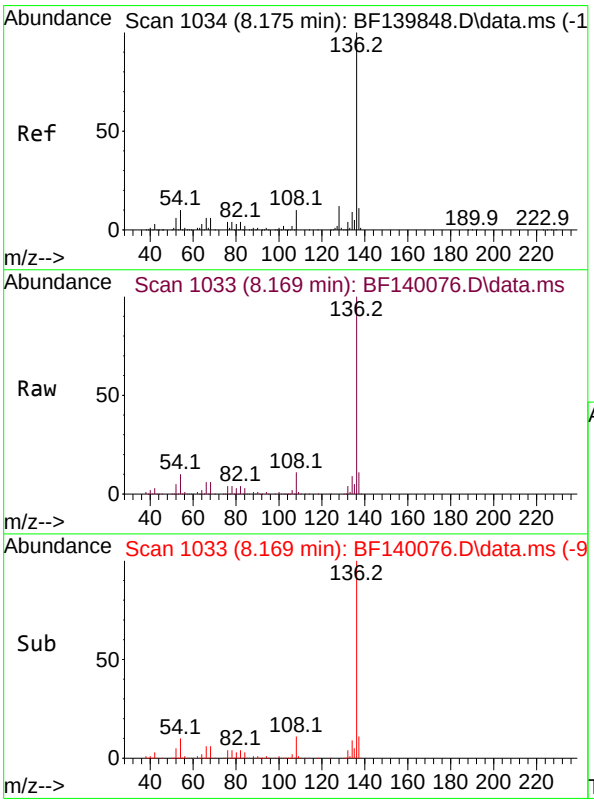
#7
Phenol-d6
Concen: 113.718 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion: 99 Resp: 1244979

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.7	25.1
71	36.5	27.7	41.5

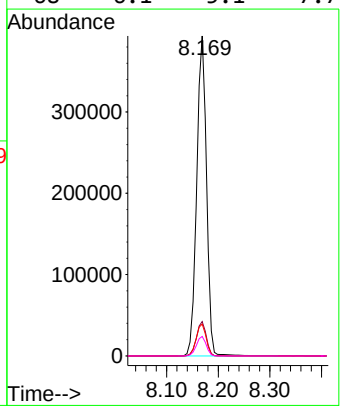


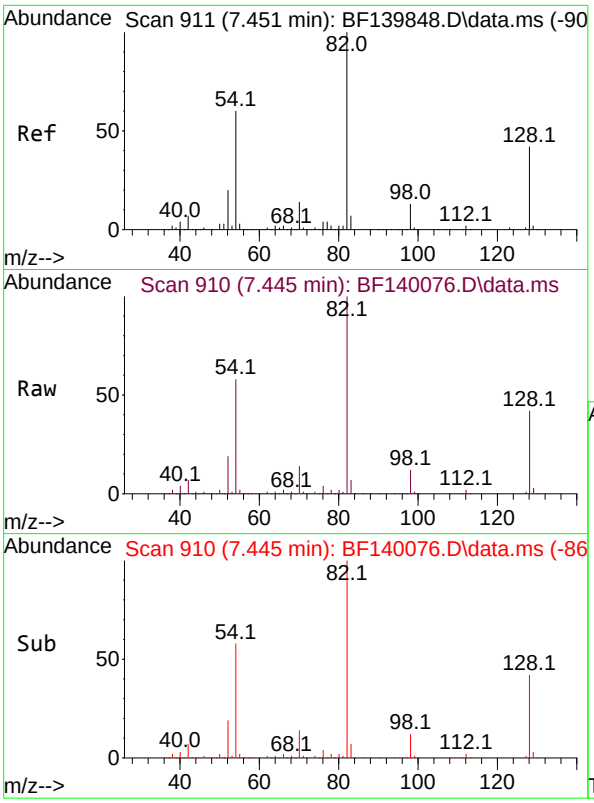


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:136 Resp: 518019

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	10.0	8.4	12.6
68	6.1	5.1	7.7



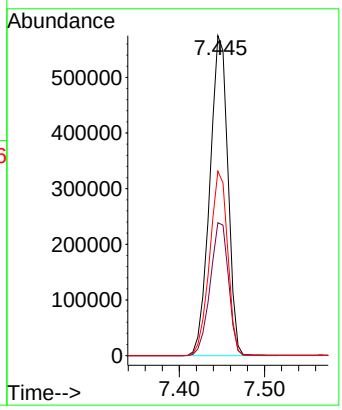


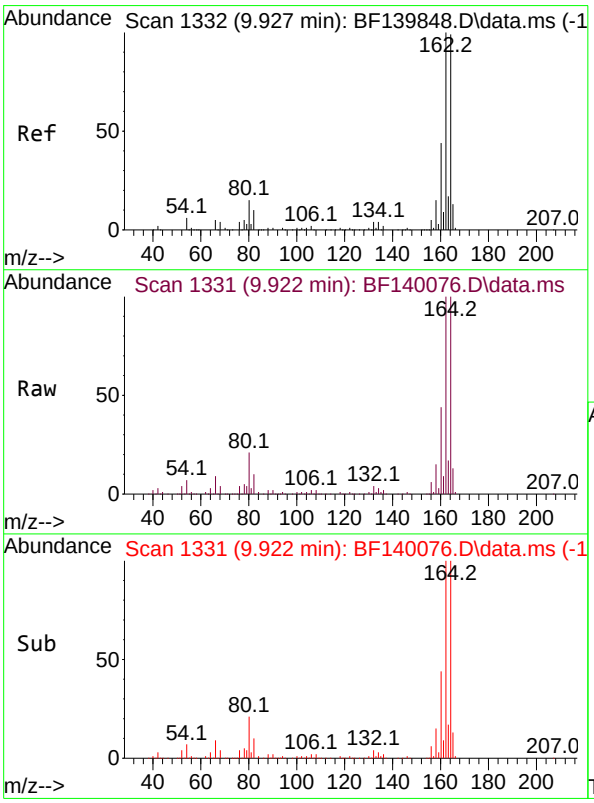
#23
Nitrobenzene-d5
Concen: 90.938 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion: 82 Resp: 849954

Ion	Ratio	Lower	Upper
82	100		
128	41.5	33.4	50.0
54	57.6	47.8	71.8

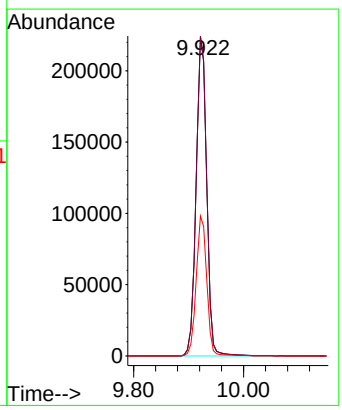


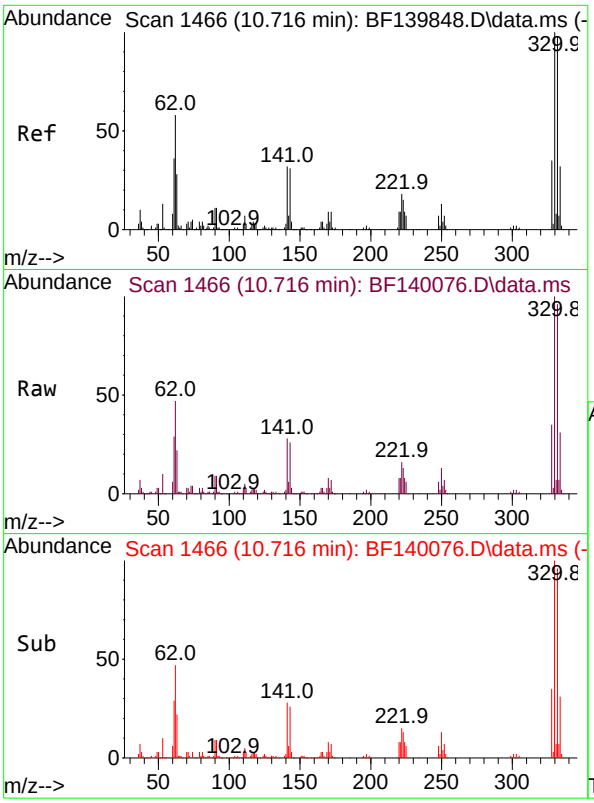


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:164 Resp: 298114

Ion	Ratio	Lower	Upper
164	100		
162	100.2	81.0	121.4
160	43.8	35.4	53.0



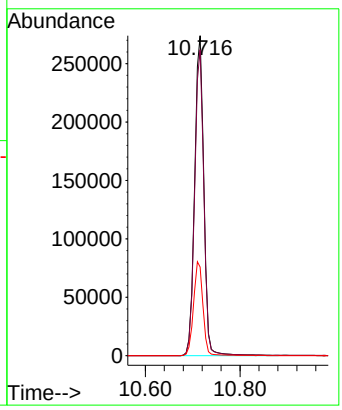


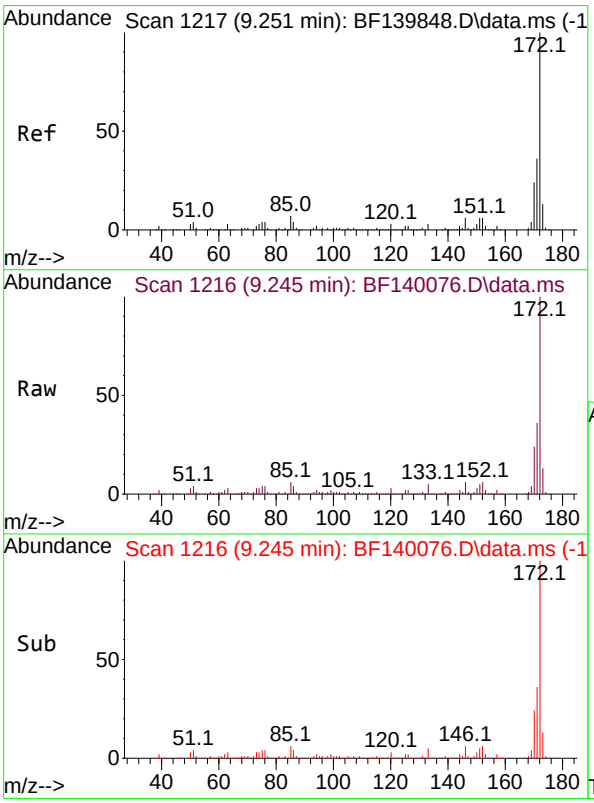
#42
2,4,6-Tribromophenol
Concen: 132.764 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion:330 Resp: 370207

Ion	Ratio	Lower	Upper
330	100		
332	95.2	78.1	117.1
141	30.0	26.6	39.8

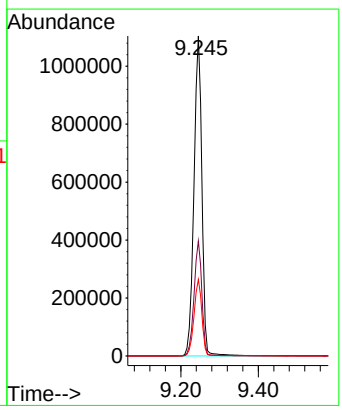


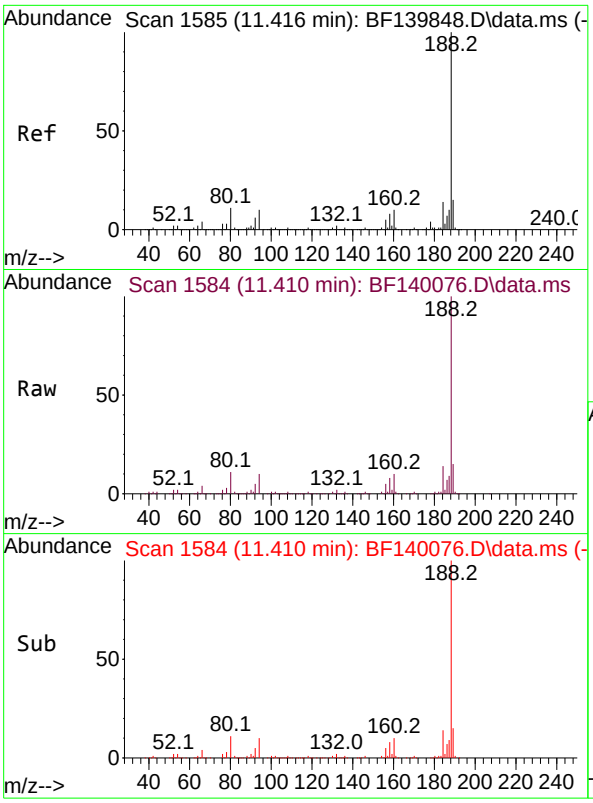


#45
2-Fluorobiphenyl
Concen: 87.121 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:172 Resp: 1571487

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	23.9	19.1	28.7



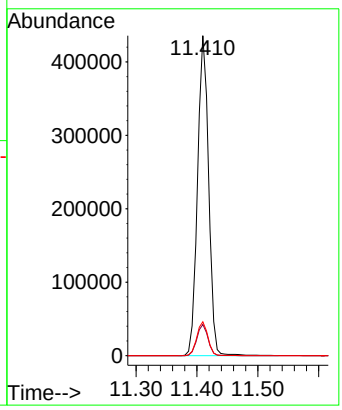


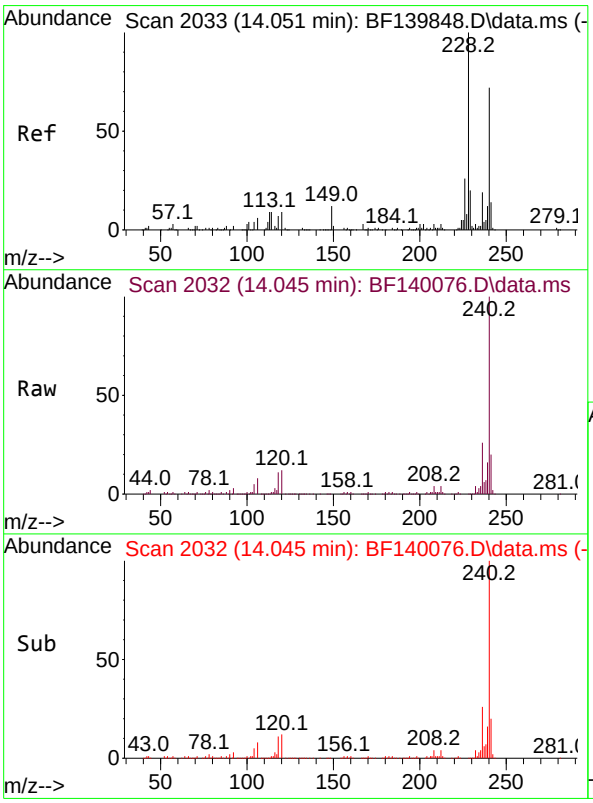
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion:188 Resp: 550598

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.9	11.9
80	10.6	9.0	13.4

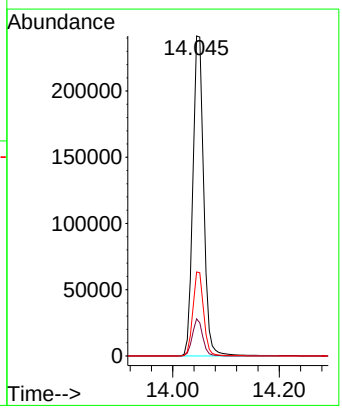


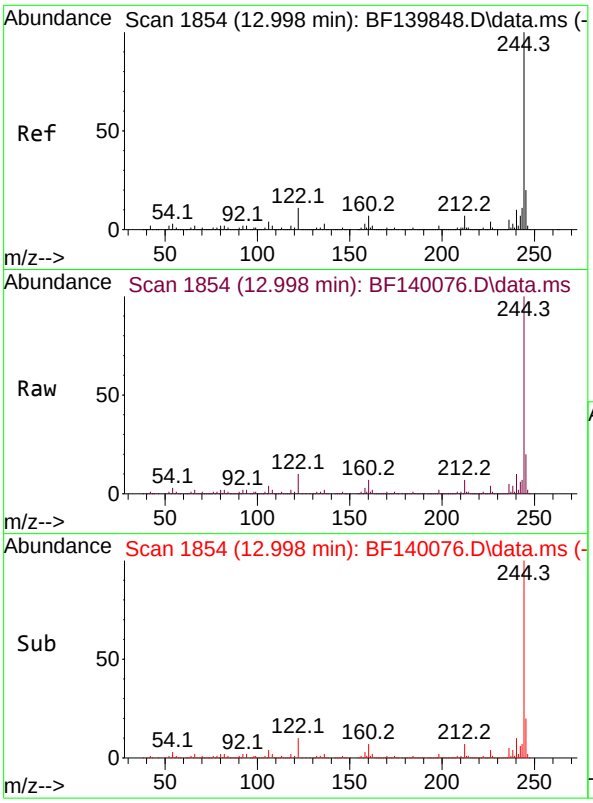


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:240 Resp: 341644

Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.4	14.2
236	26.2	20.9	31.3



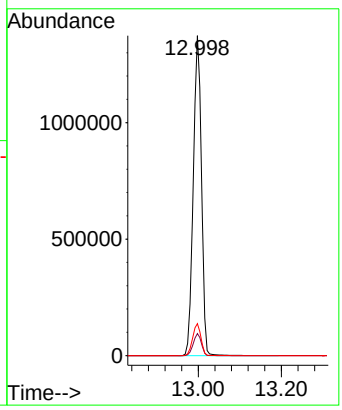


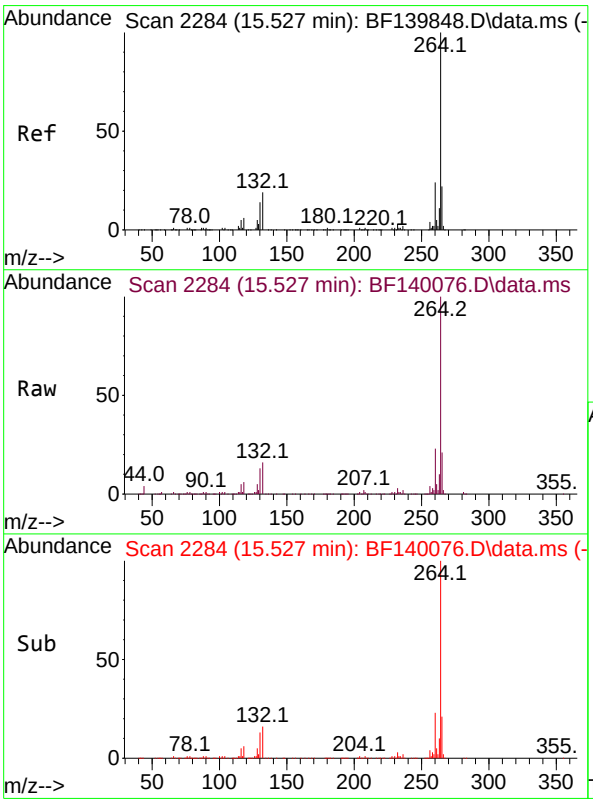
#79
Terphenyl-d14
Concen: 89.131 ng
RT: 12.998 min Scan# 18
Delta R.T. 0.000 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion:244 Resp: 1868766

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.0	8.6	13.0

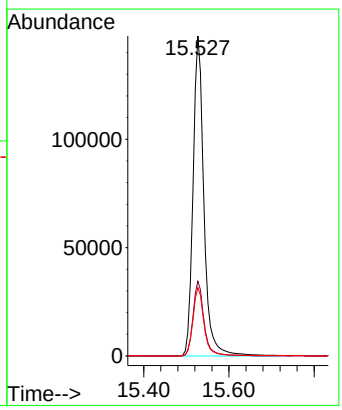




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:264 Resp: 261224

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.4	29.2
265	21.3	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140077.D
Acq On : 28 Oct 2024 10:29
Operator : RC/JU
Sample : PB164444BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 11:23:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164444BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	127868	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	495282	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	281323	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	511374	20.000	ng		0.00
76) Chrysene-d12	14.051	240	262593	20.000	ng		0.00
86) Perylene-d12	15.527	264	265684	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	983498	120.410	ng		0.02
7) Phenol-d6	6.516	99	1248557	118.025	ng		0.00
23) Nitrobenzene-d5	7.451	82	827399	92.589	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	372077	141.398	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1485083	87.245	ng		0.00
79) Terphenyl-d14	12.998	244	1542921	95.744	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.781	88	135793	35.657	ng		97
3) Pyridine	3.534	79	364598	38.624	ng		98
4) n-Nitrosodimethylamine	3.481	42	210444	41.494	ng	#	99
6) Aniline	6.551	93	381952	38.741	ng		100
8) 2-Chlorophenol	6.675	128	380511	45.570	ng		98
9) Benzaldehyde	6.440	77	75047	12.611	ng		96
10) Phenol	6.528	94	480470m	44.055	ng		
11) bis(2-Chloroethyl)ether	6.622	93	369586	43.843	ng		99
12) 1,3-Dichlorobenzene	6.834	146	409351	42.706	ng		99
13) 1,4-Dichlorobenzene	6.910	146	418487	43.700	ng		99
14) 1,2-Dichlorobenzene	7.057	146	399902	44.744	ng		98
15) Benzyl Alcohol	7.028	79	358350	46.179	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	620620	43.177	ng		98
17) 2-Methylphenol	7.139	107	315983	44.379	ng		98
18) Hexachloroethane	7.404	117	150834	44.169	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	281684	43.903	ng		97
20) 3+4-Methylphenols	7.292	107	391158	42.951	ng	#	77
22) Acetophenone	7.298	105	532350	43.883	ng		99
24) Nitrobenzene	7.469	77	425814	43.461	ng		99
25) Isophorone	7.710	82	773146	45.583	ng		99
26) 2-Nitrophenol	7.786	139	188880	51.101	ng		98
27) 2,4-Dimethylphenol	7.822	122	320582	52.015	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	456094	44.384	ng		99
29) 2,4-Dichlorophenol	8.028	162	318680	45.395	ng		98
30) 1,2,4-Trichlorobenzene	8.110	180	336007	43.256	ng		98
31) Naphthalene	8.192	128	1127006	44.121	ng		99
32) Benzoic acid	7.939	122	216873	40.344	ng		99
33) 4-Chloroaniline	8.239	127	159322	18.292	ng		98
34) Hexachlorobutadiene	8.310	225	219251	44.923	ng		98
35) Caprolactam	8.610	113	103223m	46.244	ng		
36) 4-Chloro-3-methylphenol	8.716	107	357353	45.972	ng		100
37) 2-Methylnaphthalene	8.886	142	713865	45.632	ng		99
38) 1-Methylnaphthalene	8.986	142	669536	43.622	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	338977	44.663	ng		99
41) Hexachlorocyclopentadiene	9.039	237	437259	165.576	ng		99
43) 2,4,6-Trichlorophenol	9.163	196	246720	45.915	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140077.D
Acq On : 28 Oct 2024 10:29
Operator : RC/JU
Sample : PB164444BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 11:23:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164444BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	247409	44.627	ng		98
46) 1,1'-Biphenyl	9.351	154	859069	43.865	ng		99
47) 2-Chloronaphthalene	9.375	162	677574	42.957	ng		100
48) 2-Nitroaniline	9.469	65	236689	49.063	ng		95
49) Acenaphthylene	9.792	152	1088844	47.749	ng		100
50) Dimethylphthalate	9.651	163	804892	45.933	ng		100
51) 2,6-Dinitrotoluene	9.710	165	179884	47.412	ng		99
52) Acenaphthene	9.963	154	735816	49.881	ng		99
53) 3-Nitroaniline	9.875	138	109911	28.091	ng		98
54) 2,4-Dinitrophenol	9.986	184	177437	109.904	ng	#	1
55) Dibenzofuran	10.133	168	947573	44.771	ng		100
56) 4-Nitrophenol	10.033	139	286527	95.186	ng		96
57) 2,4-Dinitrotoluene	10.116	165	244414	52.385	ng		99
58) Fluorene	10.480	166	727905	45.154	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	212306	48.851	ng		97
60) Diethylphthalate	10.351	149	791021	45.976	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	369072	45.336	ng		99
62) 4-Nitroaniline	10.498	138	180917	48.958	ng		97
63) Azobenzene	10.627	77	806460	44.214	ng		98
65) 4,6-Dinitro-2-methylph...	10.522	198	126328	60.564	ng		95
66) n-Nitrosodiphenylamine	10.586	169	680576	44.467	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	237977	45.173	ng		98
68) Hexachlorobenzene	11.027	284	266322	44.950	ng		96
69) Atrazine	11.116	200	224215	54.080	ng		99
70) Pentachlorophenol	11.216	266	322659	89.731	ng		99
71) Phenanthrene	11.439	178	1074904	44.500	ng		100
72) Anthracene	11.492	178	1107771	47.004	ng		100
73) Carbazole	11.645	167	952915	43.475	ng		99
74) Di-n-butylphthalate	11.974	149	1167048	46.086	ng		99
75) Fluoranthene	12.627	202	1073772	43.973	ng		99
77) Benzidine	12.745	184	237729	55.056	ng		99
78) Pyrene	12.857	202	1070018	46.552	ng		100
80) Butylbenzylphthalate	13.468	149	358899	52.081	ng		99
81) Benzo(a)anthracene	14.045	228	824539	48.236	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	161964	32.497	ng		99
83) Chrysene	14.080	228	734278	46.850	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	433668	56.091	ng		100
85) Di-n-octyl phthalate	14.639	149	699522	49.743	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	839150	49.096	ng		98
88) Benzo(b)fluoranthene	15.098	252	705155	43.570	ng		99
89) Benzo(k)fluoranthene	15.127	252	711830	50.999	ng		99
90) Benzo(a)pyrene	15.468	252	674445	50.645	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	679796	47.676	ng		98
92) Benzo(g,h,i)perylene	17.486	276	644416	45.246	ng		98

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

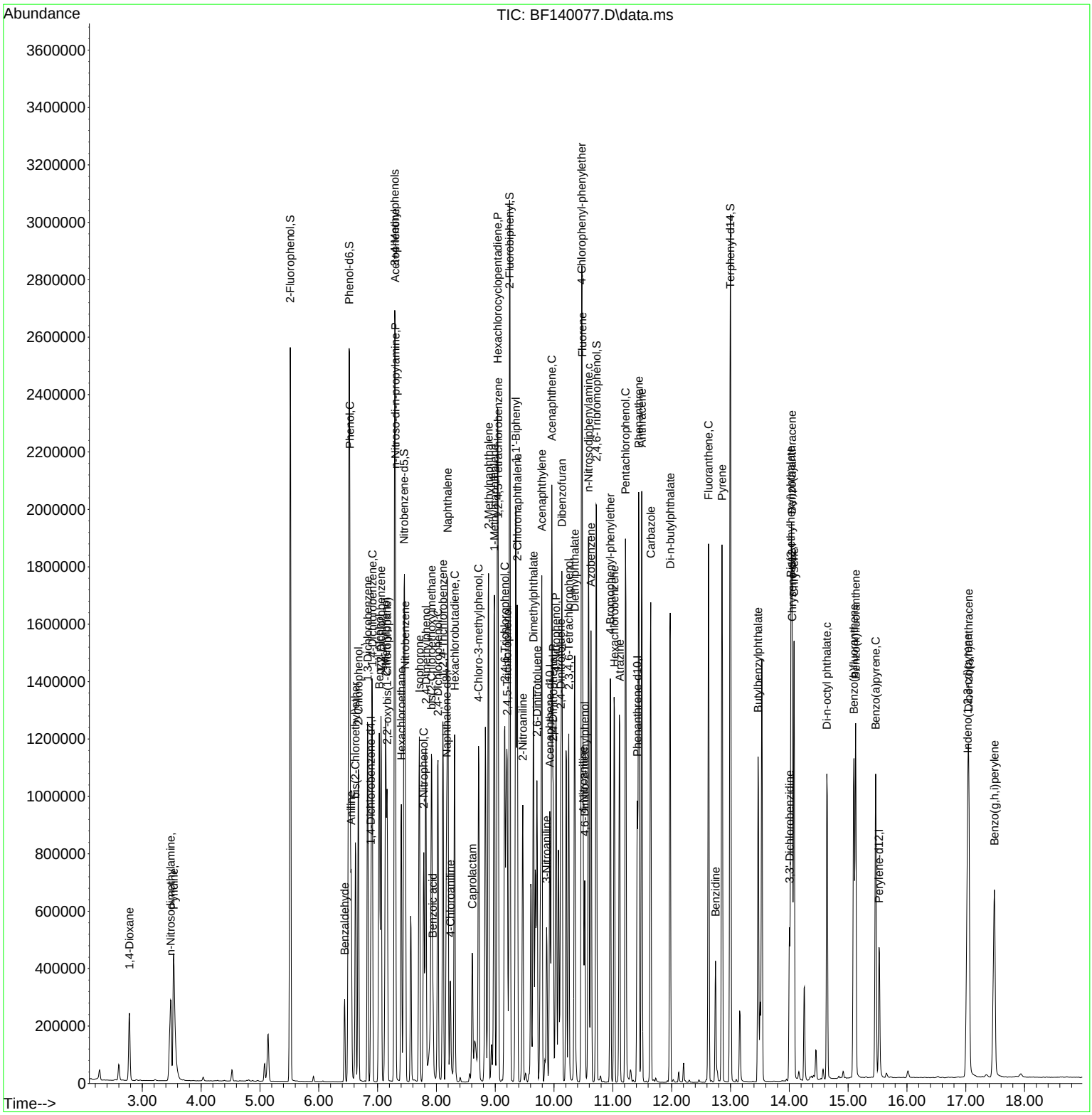
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140077.D
Acq On : 28 Oct 2024 10:29
Operator : RC/JU
Sample : PB164444BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 11:23:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164444BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140092.D
Acq On : 28 Oct 2024 17:35
Operator : RC/JU
Sample : P4545-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 18:05:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	113612	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	441889	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	241647	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	409717	20.000	ng	0.00
76) Chrysene-d12	14.051	240	203129	20.000	ng	0.00
86) Perylene-d12	15.527	264	263019	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	977769	134.729	ng	0.02
7) Phenol-d6	6.516	99	1208635	128.587	ng	0.00
23) Nitrobenzene-d5	7.451	82	821761	103.069	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	358712	158.702	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1444688	98.807	ng	0.00
79) Terphenyl-d14	12.998	244	1306207	104.783	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.881	88	126476	37.378	ng	# 82
3) Pyridine	3.587	79	189602	22.606	ng	98
4) n-Nitrosodimethylamine	3.516	42	187502	41.610	ng	# 97
6) Aniline	6.557	93	172468	19.688	ng	99
8) 2-Chlorophenol	6.675	128	370207	49.899	ng	99
9) Benzaldehyde	6.440	77	47671	9.016	ng	99
10) Phenol	6.528	94	445105m	45.933	ng	
11) bis(2-Chloroethyl)ether	6.628	93	351685	46.955	ng	99
12) 1,3-Dichlorobenzene	6.834	146	361312	42.425	ng	99
13) 1,4-Dichlorobenzene	6.910	146	367844	43.232	ng	99
14) 1,2-Dichlorobenzene	7.057	146	355662	44.788	ng	99
15) Benzyl Alcohol	7.028	79	347790	50.442	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	584140	45.739	ng	97
17) 2-Methylphenol	7.134	107	310465	49.075	ng	99
18) Hexachloroethane	7.404	117	128123	42.227	ng	96
19) n-Nitroso-di-n-propyla...	7.304	70	276089	48.431	ng	95
20) 3+4-Methylphenols	7.287	107	391991	48.443	ng	94
22) Acetophenone	7.298	105	508513	46.983	ng	98
24) Nitrobenzene	7.469	77	408928	46.780	ng	100
25) Isophorone	7.710	82	765851	50.609	ng	99
26) 2-Nitrophenol	7.787	139	189690	57.521	ng	97
27) 2,4-Dimethylphenol	7.816	122	314864	57.260	ng	98
28) bis(2-Chloroethoxy)met...	7.916	93	447113	48.767	ng	99
29) 2,4-Dichlorophenol	8.022	162	320220	51.126	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	316171	45.620	ng	100
31) Naphthalene	8.192	128	1066174	46.783	ng	100
32) Benzoic acid	7.898	122	84400	17.598	ng	95
33) 4-Chloroaniline	8.234	127	133599	17.192	ng	98
34) Hexachlorobutadiene	8.310	225	199456	45.805	ng	99
35) Caprolactam	8.604	113	83595m	41.975	ng	
36) 4-Chloro-3-methylphenol	8.716	107	363875	52.467	ng	99
37) 2-Methylnaphthalene	8.881	142	696991	49.937	ng	100
38) 1-Methylnaphthalene	8.981	142	647449	47.280	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	331367	50.829	ng	99
41) Hexachlorocyclopentadiene	9.034	237	362304	159.719	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	253954	55.021	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140092.D
Acq On : 28 Oct 2024 17:35
Operator : RC/JU
Sample : P4545-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 18:05:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	258939	54.376	ng		98
46) 1,1'-Biphenyl	9.345	154	856147	50.894	ng		100
47) 2-Chloronaphthalene	9.375	162	675337	49.845	ng		100
48) 2-Nitroaniline	9.463	65	241309	58.234	ng		97
49) Acenaphthylene	9.786	152	1080746	55.175	ng		99
50) Dimethylphthalate	9.645	163	822973	54.677	ng		99
51) 2,6-Dinitrotoluene	9.710	165	178715	54.837	ng		96
52) Acenaphthene	9.963	154	661593	52.213	ng		99
53) 3-Nitroaniline	9.875	138	131503	39.128	ng		98
54) 2,4-Dinitrophenol	9.980	184	60419	47.508	ng	#	1
55) Dibenzofuran	10.133	168	947629	52.125	ng		100
56) 4-Nitrophenol	10.033	139	254819	98.551	ng		98
57) 2,4-Dinitrotoluene	10.110	165	238568	59.527	ng		99
58) Fluorene	10.475	166	716535	51.747	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	201940	54.095	ng		98
60) Diethylphthalate	10.345	149	792061	53.595	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	368778	52.737	ng		98
62) 4-Nitroaniline	10.492	138	167633	52.812	ng		98
63) Azobenzene	10.628	77	807556	51.543	ng		97
65) 4,6-Dinitro-2-methylph...	10.516	198	60965	36.479	ng		94
66) n-Nitrosodiphenylamine	10.586	169	670666	54.692	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	233236	55.258	ng		97
68) Hexachlorobenzene	11.022	284	255815	53.889	ng		98
69) Atrazine	11.110	200	212035	63.831	ng		99
70) Pentachlorophenol	11.216	266	224019	77.757	ng		99
71) Phenanthrene	11.439	178	1031591	53.303	ng		100
72) Anthracene	11.492	178	1041472	55.155	ng		100
73) Carbazole	11.639	167	882304	50.241	ng		100
74) Di-n-butylphthalate	11.969	149	1119955	55.199	ng		100
75) Fluoranthene	12.627	202	912791	46.655	ng		99
77) Benzidine	12.745	184	17706	5.301	ng		98
78) Pyrene	12.851	202	903442	50.811	ng		100
80) Butylbenzylphthalate	13.469	149	345144	64.747	ng		99
81) Benzo(a)anthracene	14.039	228	724089	54.760	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	185837	48.202	ng		100
83) Chrysene	14.080	228	701255	57.841	ng		99
84) Bis(2-ethylhexyl)phtha...	14.027	149	456891	76.394	ng		100
85) Di-n-octyl phthalate	14.639	149	793362	72.931	ng		98
87) Indeno(1,2,3-cd)pyrene	17.027	276	775966	45.859	ng		98
88) Benzo(b)fluoranthene	15.098	252	831851	51.919	ng		99
89) Benzo(k)fluoranthene	15.127	252	782283	56.615	ng		99
90) Benzo(a)pyrene	15.468	252	780503	59.203	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	651067	46.124	ng		99
92) Benzo(g,h,i)perylene	17.474	276	529084	37.525	ng		99

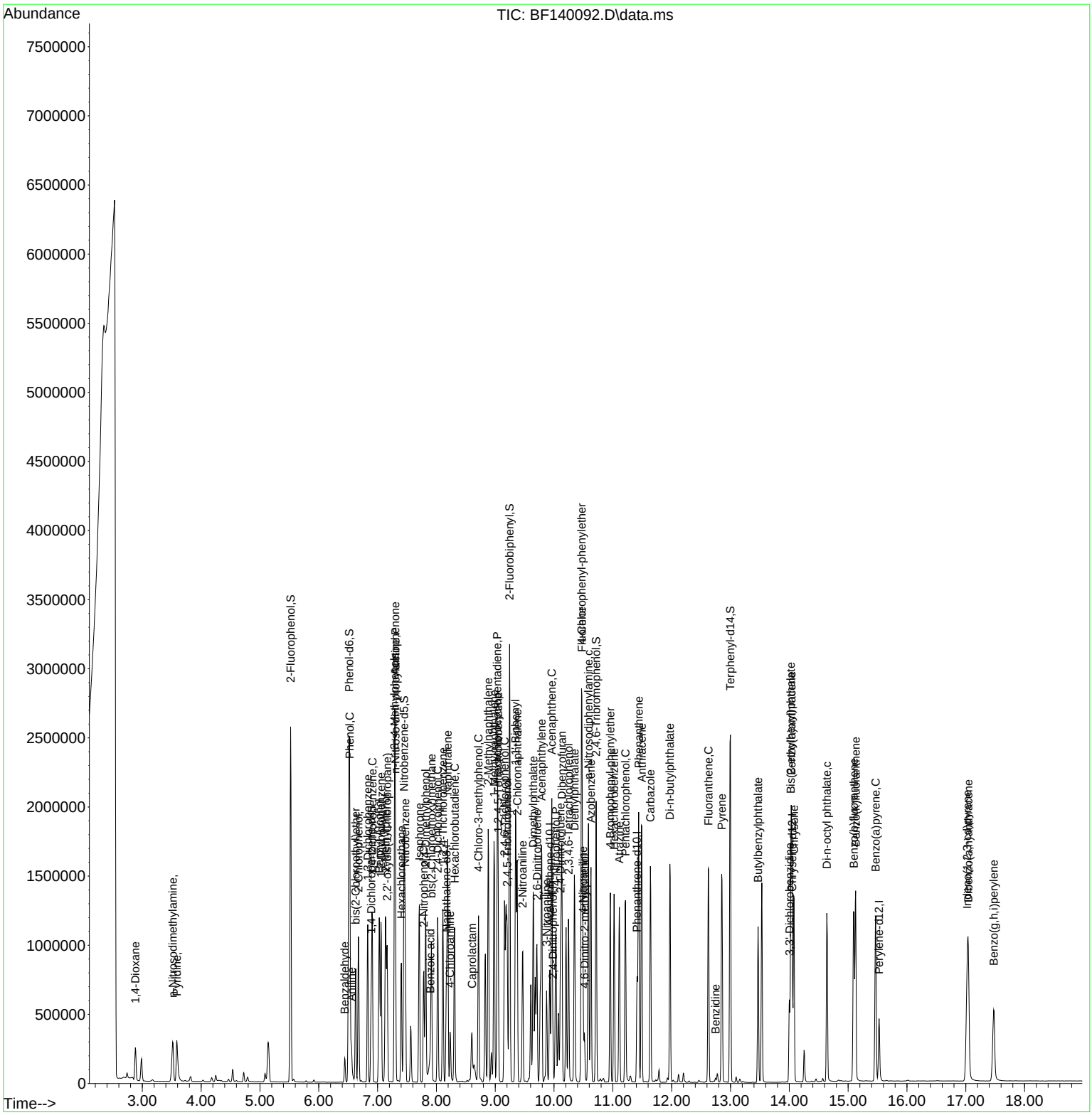
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140092.D
Acq On : 28 Oct 2024 17:35
Operator : RC/JU
Sample : P4545-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 18:05:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140093.D
Acq On : 28 Oct 2024 18:03
Operator : RC/JU
Sample : P4545-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 18:37:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	111820	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	432287	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	236921	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	398949	20.000	ng	0.00
76) Chrysene-d12	14.051	240	204155	20.000	ng	0.00
86) Perylene-d12	15.527	264	256308	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	974076	136.371	ng	0.02
7) Phenol-d6	6.516	99	1219104	131.779	ng	0.00
23) Nitrobenzene-d5	7.451	82	820015	105.134	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	358251	161.659	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1443612	100.702	ng	0.00
79) Terphenyl-d14	12.998	244	1318745	105.257	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.881	88	128884	38.700	ng	# 81
3) Pyridine	3.587	79	206806	25.053	ng	98
4) n-Nitrosodimethylamine	3.516	42	189912	42.820	ng	# 98
6) Aniline	6.551	93	182449	21.161	ng	99
8) 2-Chlorophenol	6.675	128	372961	51.076	ng	97
9) Benzaldehyde	6.439	77	44949	8.637	ng	95
10) Phenol	6.528	94	448413m	47.016	ng	
11) bis(2-Chloroethyl)ether	6.628	93	356154	48.313	ng	99
12) 1,3-Dichlorobenzene	6.834	146	359207	42.853	ng	99
13) 1,4-Dichlorobenzene	6.904	146	367348	43.866	ng	99
14) 1,2-Dichlorobenzene	7.057	146	355848	45.529	ng	99
15) Benzyl Alcohol	7.028	79	349195	51.458	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	577398	45.935	ng	96
17) 2-Methylphenol	7.134	107	313004	50.269	ng	99
18) Hexachloroethane	7.404	117	129514	43.369	ng	95
19) n-Nitroso-di-n-propyla...	7.298	70	273178	48.688	ng	98
20) 3+4-Methylphenols	7.286	107	394617	49.549	ng	92
22) Acetophenone	7.298	105	510185	48.185	ng	97
24) Nitrobenzene	7.469	77	405962	47.472	ng	100
25) Isophorone	7.710	82	761382	51.431	ng	99
26) 2-Nitrophenol	7.786	139	190721	59.118	ng	96
27) 2,4-Dimethylphenol	7.816	122	316975	58.924	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	451618	50.352	ng	99
29) 2,4-Dichlorophenol	8.022	162	320207	52.260	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	314131	46.333	ng	100
31) Naphthalene	8.192	128	1064132	47.730	ng	100
32) Benzoic acid	7.904	122	123617	26.347	ng	98
33) 4-Chloroaniline	8.233	127	150937	19.854	ng	99
34) Hexachlorobutadiene	8.310	225	196299	46.081	ng	99
35) Caprolactam	8.604	113	85333m	43.800	ng	
36) 4-Chloro-3-methylphenol	8.716	107	365021	53.801	ng	98
37) 2-Methylnaphthalene	8.880	142	701854	51.402	ng	99
38) 1-Methylnaphthalene	8.980	142	652303	48.693	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	331879	51.923	ng	99
41) Hexachlorocyclopentadiene	9.033	237	348918	156.886	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	253091	55.928	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140093.D
Acq On : 28 Oct 2024 18:03
Operator : RC/JU
Sample : P4545-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 18:37:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	253581	54.313	ng		98
46) 1,1'-Biphenyl	9.345	154	857737	52.006	ng		100
47) 2-Chloronaphthalene	9.375	162	680498	51.228	ng		99
48) 2-Nitroaniline	9.463	65	244814	60.258	ng		99
49) Acenaphthylene	9.786	152	1071538	55.796	ng		99
50) Dimethylphthalate	9.645	163	828465	56.139	ng		100
51) 2,6-Dinitrotoluene	9.710	165	177848	55.660	ng		95
52) Acenaphthene	9.963	154	668819	53.836	ng		99
53) 3-Nitroaniline	9.875	138	128514	39.002	ng		97
54) 2,4-Dinitrophenol	9.980	184	66396	52.460	ng	#	1
55) Dibenzofuran	10.133	168	950618	53.332	ng		99
56) 4-Nitrophenol	10.033	139	257304	101.497	ng		99
57) 2,4-Dinitrotoluene	10.110	165	238589	60.720	ng		99
58) Fluorene	10.475	166	727096	53.557	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	204109	55.766	ng		99
60) Diethylphthalate	10.345	149	792166	54.672	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	374542	54.630	ng		97
62) 4-Nitroaniline	10.492	138	166610	53.537	ng		98
63) Azobenzene	10.627	77	802948	52.271	ng		97
65) 4,6-Dinitro-2-methylph...	10.516	198	66402	40.805	ng		95
66) n-Nitrosodiphenylamine	10.586	169	673533	56.408	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	231386	56.299	ng		98
68) Hexachlorobenzene	11.022	284	257174	55.638	ng		98
69) Atrazine	11.110	200	211444	65.372	ng		99
70) Pentachlorophenol	11.216	266	237118	84.525	ng		99
71) Phenanthrene	11.439	178	1027335	54.516	ng		100
72) Anthracene	11.492	178	1041878	56.666	ng		100
73) Carbazole	11.639	167	877488	51.316	ng		100
74) Di-n-butylphthalate	11.969	149	1110467	56.209	ng		100
75) Fluoranthene	12.621	202	920478	48.318	ng		100
77) Benzidine	12.745	184	27530	8.201	ng		98
78) Pyrene	12.851	202	902116	50.481	ng		99
80) Butylbenzylphthalate	13.468	149	344594	64.319	ng		100
81) Benzo(a)anthracene	14.039	228	746125	56.143	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	188100	48.544	ng		99
83) Chrysene	14.074	228	707350	58.050	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	458667	76.306	ng		100
85) Di-n-octyl phthalate	14.639	149	799157	73.095	ng		97
87) Indeno(1,2,3-cd)pyrene	17.021	276	748376	45.387	ng		99
88) Benzo(b)fluoranthene	15.092	252	856677	54.869	ng		100
89) Benzo(k)fluoranthene	15.127	252	777981	57.778	ng		99
90) Benzo(a)pyrene	15.468	252	787766	61.319	ng		100
91) Dibenzo(a,h)anthracene	17.045	278	626364	45.536	ng		98
92) Benzo(g,h,i)perylene	17.474	276	506321	36.850	ng		99

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

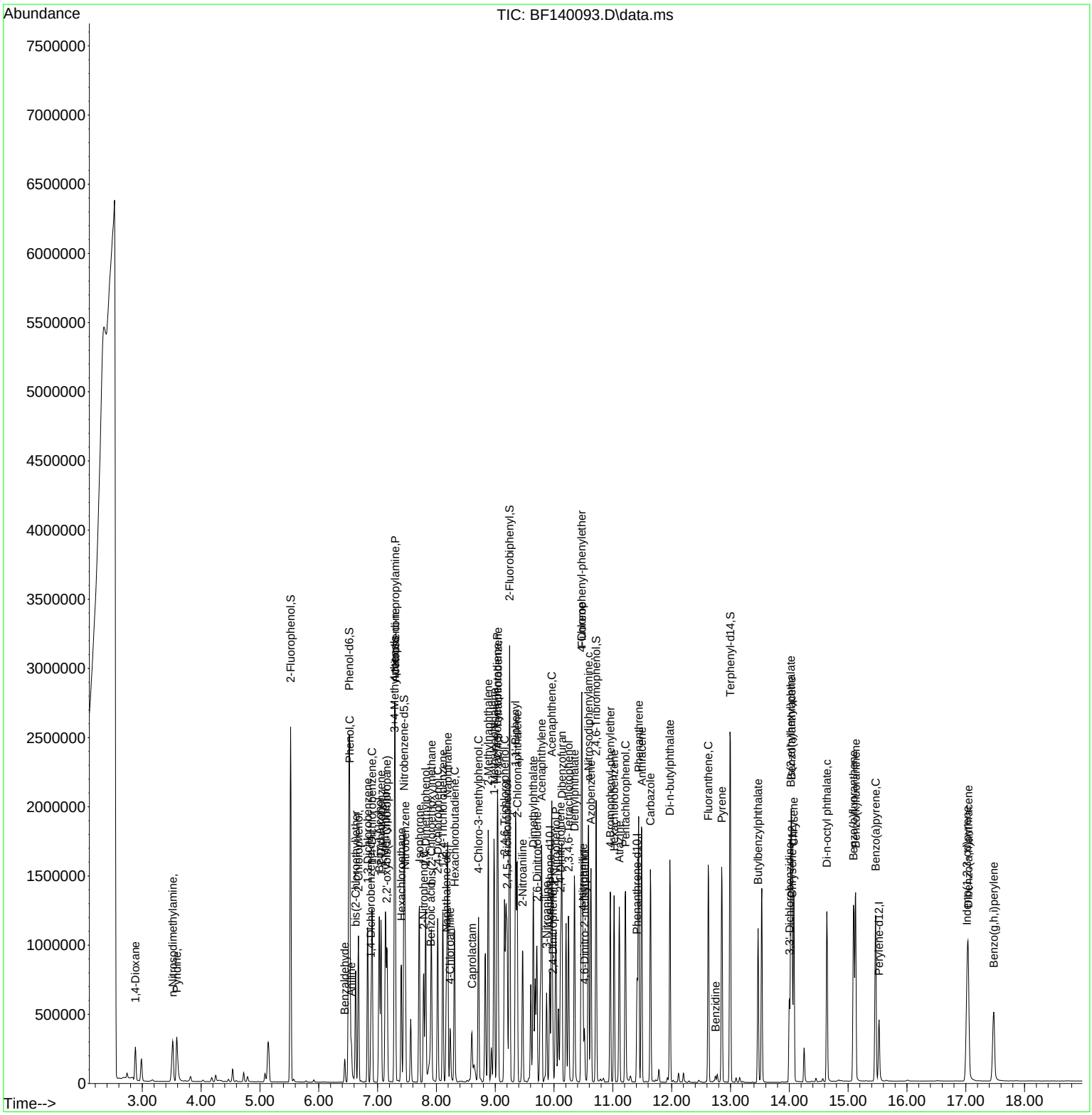
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140093.D
Acq On : 28 Oct 2024 18:03
Operator : RC/JU
Sample : P4545-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 18:37:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BF101824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF139848.D	Phenol	yogesh	10/21/2024 6:33:45 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC050	BF139849.D	Phenol	yogesh	10/21/2024 6:33:46 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC060	BF139850.D	Phenol	yogesh	10/21/2024 6:33:47 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC080	BF139851.D	Aniline	yogesh	10/21/2024 6:33:49 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICV040	BF139852.D	Phenol	yogesh	10/21/2024 6:33:50 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF102824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140075.D	Phenol	yogesh	10/29/2024 1:35:05 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
PB164444BS	BF140077.D	Caprolactam	yogesh	10/29/2024 1:35:06 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
PB164444BS	BF140077.D	Phenol	yogesh	10/29/2024 1:35:06 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
P4545-02MS	BF140092.D	Caprolactam	yogesh	10/29/2024 4:52:56 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
P4545-02MS	BF140092.D	Phenol	yogesh	10/29/2024 4:52:56 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
P4545-02MSD	BF140093.D	Caprolactam	yogesh	10/29/2024 1:35:09 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
P4545-02MSD	BF140093.D	Phenol	yogesh	10/29/2024 1:35:09 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139843.D	18 Oct 2024 09:22	RC/JU	Ok
2	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27	RC/JU	Ok
3	SSTDICC005	BF139845.D	18 Oct 2024 10:55	RC/JU	Ok
4	SSTDICC010	BF139846.D	18 Oct 2024 11:23	RC/JU	Ok
5	SSTDICC020	BF139847.D	18 Oct 2024 11:52	RC/JU	Ok
6	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	RC/JU	Ok,M
7	SSTDICC050	BF139849.D	18 Oct 2024 12:49	RC/JU	Ok,M
8	SSTDICC060	BF139850.D	18 Oct 2024 13:17	RC/JU	Ok,M
9	SSTDICC080	BF139851.D	18 Oct 2024 13:46	RC/JU	Ok,M
10	SSTDICV040	BF139852.D	18 Oct 2024 14:19	RC/JU	Ok,M
11	PB164211BL	BF139853.D	18 Oct 2024 14:48	RC/JU	Ok
12	P4405-01	BF139854.D	18 Oct 2024 15:21	RC/JU	Ok
13	P4431-01	BF139855.D	18 Oct 2024 15:50	RC/JU	Ok,M
14	P4421-01	BF139856.D	18 Oct 2024 16:18	RC/JU	Ok,M
15	P4422-01	BF139857.D	18 Oct 2024 16:46	RC/JU	Ok
16	P4425-01	BF139858.D	18 Oct 2024 17:15	RC/JU	Ok
17	P4425-03	BF139859.D	18 Oct 2024 17:44	RC/JU	Ok
18	P4425-05	BF139860.D	18 Oct 2024 18:12	RC/JU	Ok
19	P4425-07	BF139861.D	18 Oct 2024 18:41	RC/JU	ReRun
20	P4425-09	BF139862.D	18 Oct 2024 19:09	RC/JU	ReRun
21	P4426-03	BF139863.D	18 Oct 2024 19:37	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4426-07	BF139864.D	18 Oct 2024 20:05	RC/JU	ReRun
23	P4426-17	BF139865.D	18 Oct 2024 20:34	RC/JU	ReRun
24	P4426-11	BF139866.D	18 Oct 2024 21:02	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102824

Review By	yogesh	Review On	10/29/2024 1:35:27 AM				
Supervise By	mohammad	Supervise On	10/29/2024 1:38:39 AM				
SubDirectory	BF102824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140074.D	28 Oct 2024 09:04	RC/JU	Ok
2	SSTDCCC040	BF140075.D	28 Oct 2024 09:32	RC/JU	Ok,M
3	PB164444BL	BF140076.D	28 Oct 2024 10:01	RC/JU	Ok
4	PB164444BS	BF140077.D	28 Oct 2024 10:29	RC/JU	Ok,M
5	PB164393TB	BF140078.D	28 Oct 2024 10:58	RC/JU	Ok
6	PB164444BL	BF140079.D	28 Oct 2024 11:31	RC/JU	Not Ok
7	P4547-04	BF140080.D	28 Oct 2024 11:59	RC/JU	Ok
8	P4547-08	BF140081.D	28 Oct 2024 12:27	RC/JU	Ok
9	P4561-04	BF140082.D	28 Oct 2024 12:55	RC/JU	Ok
10	P4561-08	BF140083.D	28 Oct 2024 13:23	RC/JU	Ok
11	P4578-06	BF140084.D	28 Oct 2024 13:51	RC/JU	Ok
12	P4578-08	BF140085.D	28 Oct 2024 14:19	RC/JU	Ok
13	P4567-04	BF140086.D	28 Oct 2024 14:47	RC/JU	Ok
14	P4567-08	BF140087.D	28 Oct 2024 15:15	RC/JU	Ok
15	P4567-12	BF140088.D	28 Oct 2024 15:43	RC/JU	Ok
16	P4574-03	BF140089.D	28 Oct 2024 16:11	RC/JU	Ok
17	P4574-06	BF140090.D	28 Oct 2024 16:39	RC/JU	Ok
18	P4545-02	BF140091.D	28 Oct 2024 17:07	RC/JU	Ok
19	P4545-02MS	BF140092.D	28 Oct 2024 17:35	RC/JU	Ok,M
20	P4545-02MSD	BF140093.D	28 Oct 2024 18:03	RC/JU	Ok,M
21	P4567-01	BF140094.D	28 Oct 2024 18:31	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102824

Review By	yogesh	Review On	10/29/2024 1:35:27 AM				
Supervise By	mohammad	Supervise On	10/29/2024 1:38:39 AM				
SubDirectory	BF102824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4574-04	BF140095.D	28 Oct 2024 18:59	RC/JU	Ok
23	P4577-01	BF140096.D	28 Oct 2024 19:27	RC/JU	Ok,NS
24	P4566-01	BF140097.D	28 Oct 2024 19:55	RC/JU	Ok,NS
25	P4575-01	BF140098.D	28 Oct 2024 20:23	RC/JU	Ok,NS

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF139843.D	18 Oct 2024 09:22		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF139845.D	18 Oct 2024 10:55	Compound #9,32,54,65,85 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF139846.D	18 Oct 2024 11:23		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF139847.D	18 Oct 2024 11:52	Compound #54 Kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF139849.D	18 Oct 2024 12:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF139850.D	18 Oct 2024 13:17		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF139851.D	18 Oct 2024 13:46		RC/JU	Ok,M
10	SSTDICV040	SSTDICV040	BF139852.D	18 Oct 2024 14:19		RC/JU	Ok,M
11	PB164211BL	PB164211BL	BF139853.D	18 Oct 2024 14:48		RC/JU	Ok
12	P4405-01	MH-121	BF139854.D	18 Oct 2024 15:21		RC/JU	Ok
13	P4431-01	72-11934	BF139855.D	18 Oct 2024 15:50		RC/JU	Ok,M
14	P4421-01	EO-02-101624	BF139856.D	18 Oct 2024 16:18		RC/JU	Ok,M
15	P4422-01	EO-01-101624	BF139857.D	18 Oct 2024 16:46		RC/JU	Ok
16	P4425-01	TP-1	BF139858.D	18 Oct 2024 17:15		RC/JU	Ok

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4425-03	TP-2	BF139859.D	18 Oct 2024 17:44		RC/JU	Ok
18	P4425-05	TP-3	BF139860.D	18 Oct 2024 18:12		RC/JU	Ok
19	P4425-07	TP-4	BF139861.D	18 Oct 2024 18:41	Internal Standrad Fail	RC/JU	ReRun
20	P4425-09	TP-5	BF139862.D	18 Oct 2024 19:09	Internal Standrad Fail	RC/JU	ReRun
21	P4426-03	PAD-2	BF139863.D	18 Oct 2024 19:37	Internal Standrad Fail	RC/JU	ReRun
22	P4426-07	PAD-4	BF139864.D	18 Oct 2024 20:05	Internal Standrad Fail	RC/JU	ReRun
23	P4426-17	PAD-9	BF139865.D	18 Oct 2024 20:34	Internal Standard Fail	RC/JU	ReRun
24	P4426-11	PAD-6	BF139866.D	18 Oct 2024 21:02	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102824

Review By	yogesh	Review On	10/29/2024 1:35:27 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:39 AM		
SubDirectory	BF102824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140074.D	28 Oct 2024 09:04		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140075.D	28 Oct 2024 09:32		RC/JU	Ok,M
3	PB164444BL	PB164444BL	BF140076.D	28 Oct 2024 10:01		RC/JU	Ok
4	PB164444BS	PB164444BS	BF140077.D	28 Oct 2024 10:29		RC/JU	Ok,M
5	PB164393TB	PB164393TB	BF140078.D	28 Oct 2024 10:58		RC/JU	Ok
6	PB164444BL	PB164444BL	BF140079.D	28 Oct 2024 11:31	Already analysed with ok status	RC/JU	Not Ok
7	P4547-04	BP-F-21	BF140080.D	28 Oct 2024 11:59		RC/JU	Ok
8	P4547-08	BP-F-20	BF140081.D	28 Oct 2024 12:27		RC/JU	Ok
9	P4561-04	BP-F-19	BF140082.D	28 Oct 2024 12:55		RC/JU	Ok
10	P4561-08	BP-F-18	BF140083.D	28 Oct 2024 13:23		RC/JU	Ok
11	P4578-06	WB-305-BOT	BF140084.D	28 Oct 2024 13:51		RC/JU	Ok
12	P4578-08	WB-305-BOT-1	BF140085.D	28 Oct 2024 14:19		RC/JU	Ok
13	P4567-04	WC-1	BF140086.D	28 Oct 2024 14:47		RC/JU	Ok
14	P4567-08	WC-2	BF140087.D	28 Oct 2024 15:15		RC/JU	Ok
15	P4567-12	WC-3	BF140088.D	28 Oct 2024 15:43		RC/JU	Ok
16	P4574-03	GRAVEL-1	BF140089.D	28 Oct 2024 16:11		RC/JU	Ok
17	P4574-06	GRAVEL-2	BF140090.D	28 Oct 2024 16:39		RC/JU	Ok
18	P4545-02	VNJ-215	BF140091.D	28 Oct 2024 17:07		RC/JU	Ok

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102824

Review By	yogesh	Review On	10/29/2024 1:35:27 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:39 AM		
SubDirectory	BF102824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4545-02MS	VNJ-215MS	BF140092.D	28 Oct 2024 17:35		RC/JU	Ok,M
20	P4545-02MSD	VNJ-215MSD	BF140093.D	28 Oct 2024 18:03		RC/JU	Ok,M
21	P4567-01	WC-1	BF140094.D	28 Oct 2024 18:31		RC/JU	Ok
22	P4574-04	GRAVEL-2	BF140095.D	28 Oct 2024 18:59		RC/JU	Ok
23	P4577-01	TR-05-102524	BF140096.D	28 Oct 2024 19:27		RC/JU	Ok,NS
24	P4566-01	HD-01-102524	BF140097.D	28 Oct 2024 19:55		RC/JU	Ok,NS
25	P4575-01	PL-02-102424	BF140098.D	28 Oct 2024 20:23		RC/JU	Ok,NS

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164393

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 114771

Start Prep Date : 10/25/2024 **Time :** 17:40

End Prep Date : 10/26/2024 **Time :** 10:37

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Tumbler T-1 / T-2 CHECKED,30 RPM. Particle size reduction is not required. p4578-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/26/24 11:45	JP TCLP Room	JP [illegible]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164393

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4452-03	ETGI-285	01	100.03	2000	N/A	N/A	N/A	11.0	1.5	T-1
P4545-02	VNJ-215	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4547-04	BP-F-21	03	100.01	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4547-08	BP-F-20	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4561-04	BP-F-19	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4561-08	BP-F-18	06	100.04	2000	N/A	N/A	N/A	4.0	1.0	T-1
P4567-04	WC-1	07	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4567-08	WC-2	08	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4567-12	WC-3	09	100.04	2000	N/A	N/A	N/A	7.6	1.5	T-1
P4574-03	GRAVEL-1	10	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4574-06	GRAVEL-2	11	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
P4574-08	CONCRETE-1	12	100.02	2000	N/A	N/A	N/A	10.5	1.0	T-2
P4574-10	CONCRETE-2	13	100.02	2000	N/A	N/A	N/A	10.5	1.5	T-2
P4574-12	CONCRETE-3	14	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-2
P4578-06	WB-305-BOT	15	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-2
P4578-08	WB-305-BOT-1	16	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-2
PB164393TB	LEB393	17	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4452-03	ETGI-285	N/A	N/A	N/A	N/A	100	N/A
P4545-02	VNJ-215	N/A	N/A	N/A	N/A	100	N/A
P4547-04	BP-F-21	N/A	N/A	N/A	N/A	100	N/A
P4547-08	BP-F-20	N/A	N/A	N/A	N/A	100	N/A
P4561-04	BP-F-19	N/A	N/A	N/A	N/A	100	N/A
P4561-08	BP-F-18	N/A	N/A	N/A	N/A	100	N/A
P4567-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
P4567-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
P4567-12	WC-3	N/A	N/A	N/A	N/A	100	N/A
P4574-03	GRAVEL-1	N/A	N/A	N/A	N/A	100	N/A
P4574-06	GRAVEL-2	N/A	N/A	N/A	N/A	100	N/A
P4574-08	CONCRETE-1	N/A	N/A	N/A	N/A	100	N/A
P4574-10	CONCRETE-2	N/A	N/A	N/A	N/A	100	N/A
P4574-12	CONCRETE-3	N/A	N/A	N/A	N/A	100	N/A
P4578-06	WB-305-BOT	N/A	N/A	N/A	N/A	100	N/A
P4578-08	WB-305-BOT-1	N/A	N/A	N/A	N/A	100	N/A
PB164393TB	LEB393	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB164393

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4452-03	ETGI-285	5.02	96.5	11.0	4.0	#1	4.93
P4545-02	VNJ-215	5.02	96.5	7.6	2.5	#1	4.93
P4547-04	BP-F-21	5.00	96.5	6.2	2.0	#1	4.93
P4547-08	BP-F-20	5.03	96.5	8.2	3.0	#1	4.93
P4561-04	BP-F-19	5.02	96.5	7.6	2.5	#1	4.93
P4561-08	BP-F-18	5.02	96.5	7.0	2.5	#1	4.93
P4567-04	WC-1	5.03	96.5	9.1	4.0	#1	4.93
P4567-08	WC-2	5.02	96.5	9.5	4.0	#1	4.93
P4567-12	WC-3	5.02	96.5	7.2	3.0	#1	4.93
P4574-03	GRAVEL-1	5.02	96.5	6.0	2.0	#1	4.93
P4574-06	GRAVEL-2	5.03	96.5	5.6	1.5	#1	4.93
P4574-08	CONCRETE-1	5.02	96.5	11.0	4.0	#1	4.93
P4574-10	CONCRETE-2	5.03	96.5	11.0	4.0	#1	4.93
P4574-12	CONCRETE-3	5.02	96.5	11.5	4.5	#1	4.93
P4578-06	WB-305-BOT	5.03	96.5	7.6	2.5	#1	4.93
P4578-08	WB-305-BOT-1	5.02	96.5	8.2	3.0	#1	4.93
PB164393TB	LEB393	N/A	N/A	N/A	N/A	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4545 **WorkList ID :** 184760 **Department :** TCLP Extraction **Date :** 10-25-2024 07:58:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4452-03	ETGI-285	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/18/2024	1311
P4545-02	VNJ-215	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/24/2024	1311
P4547-04	BP-F-21	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/24/2024	1311
P4547-08	BP-F-20	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/24/2024	1311
P4561-04	BP-F-19	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4561-08	BP-F-18	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4567-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4567-08	WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4567-12	WC-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4574-03	GRAVEL-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-06	GRAVEL-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-08	CONCRETE-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-10	CONCRETE-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-12	CONCRETE-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4578-06	WB-305-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K63	10/25/2024	1311
P4578-08	WB-305-BOT-1	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K63	10/25/2024	1311

Date/Time 10/25/24 17:25
Raw Sample Received by: SO (w/ C)
Raw Sample Relinquished by: J.C (SM)

Date/Time 10/25/24 19:30
Raw Sample Received by: J.C (SM)
Raw Sample Relinquished by: SO w/ C

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164444

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/26/2024
Matrix :	Water			**Extraction Start Time :**	12:10
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	10/26/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	17:10
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3822
Baked Na2SO4	N/A	EP2551
10N NaoH	N/A	EP2550
H2SO4 1:1	N/A	EP2548
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11with 10 N NaOH.

KD Bath ID:	Water bath -01,02	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10|26|24	RP (Lab-Lab)	RC/SVOC
17:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164444

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/26/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164393TB	PB164393TB	TCLP BNA	100	6	RUPESH	rajesh	1			SEP-01
PB164444BL	PB164444BL	TCLP BNA	1000	6	RUPESH	rajesh	1			2
PB164444BS	PB164444BS	TCLP BNA	1000	6	RUPESH	rajesh	1			3
P4545-02	VNJ-215	TCLP BNA	100	6	RUPESH	rajesh	1	A		4
P4545-02MS	VNJ-215MS	TCLP BNA	100	6	RUPESH	rajesh	1	A		5
P4545-02MS D	VNJ-215MSD	TCLP BNA	100	6	RUPESH	rajesh	1	A		6
P4547-04	BP-F-21	TCLP BNA	100	6	RUPESH	rajesh	1	A		7
P4547-08	BP-F-20	TCLP BNA	100	6	RUPESH	rajesh	1	A		8
P4561-04	BP-F-19	TCLP BNA	100	6	RUPESH	rajesh	1	A		9
P4561-08	BP-F-18	TCLP BNA	100	6	RUPESH	rajesh	1	A		10
P4567-04	WC-1	TCLP BNA	100	6	RUPESH	rajesh	1	A		11
P4567-08	WC-2	TCLP BNA	100	6	RUPESH	rajesh	1	A		12
P4567-12	WC-3	TCLP BNA	100	6	RUPESH	rajesh	1	A		13
P4574-03	GRAVEL-1	TCLP BNA	100	6	RUPESH	rajesh	1	A		14
P4574-06	GRAVEL-2	TCLP BNA	100	6	RUPESH	rajesh	1	A		15
P4578-06	WB-305-BOT	TCLP BNA	100	6	RUPESH	rajesh	1	A		16
P4578-08	WB-305-BOT-1	TCLP BNA	100	6	RUPESH	rajesh	1	A		17

* **Extracts relinquished on the same date as received.**

10/26/24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164393

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4452-03	ETGI-285	01	100.03	2000	N/A	N/A	N/A	11.0	1.5	T-1
P4545-02	VNJ-215	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4547-04	BP-F-21	03	100.01	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4547-08	BP-F-20	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4561-04	BP-F-19	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4561-08	BP-F-18	06	100.04	2000	N/A	N/A	N/A	4.0	1.0	T-1
P4567-04	WC-1	07	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4567-08	WC-2	08	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4567-12	WC-3	09	100.04	2000	N/A	N/A	N/A	7.6	1.5	T-1
P4574-03	GRAVEL-1	10	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4574-06	GRAVEL-2	11	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
P4574-08	CONCRETE-1	12	100.02	2000	N/A	N/A	N/A	10.5	1.0	T-2
P4574-10	CONCRETE-2	13	100.02	2000	N/A	N/A	N/A	10.5	1.5	T-2
P4574-12	CONCRETE-3	14	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-2
P4578-06	WB-305-BOT	15	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-2
P4578-08	WB-305-BOT-1	16	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-2
PB164393TB	LEB393	17	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

10/26/2024

11:50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP BNA	8270E		10/26/24	10/28/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP BNA	8270E		10/26/24	10/28/24	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4578 **Order ID:** P4578

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-06	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092700.D	1	10/26/24 12:50	10/29/24 11:23	PB164445

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.7		30 (43) - 150 (140)	68%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.1		30 (77) - 150 (126)	91%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-08	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092703.D	1	10/26/24 12:50	10/29/24 12:04	PB164445

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.7		30 (43) - 150 (140)	83%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.7		30 (77) - 150 (126)	89%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/26/24
Client Sample ID:	PB164393TB	SDG No.:	P4578
Lab Sample ID:	PB164393TB	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092699.D	1	10/26/24 12:50	10/29/24 11:10	PB164445

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.7		30 (43) - 150 (140)	98%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.3		30 (77) - 150 (126)	92%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL092652.D	PIBLK-PL092652.D	Decachlorobiphenyl	1	20	22.7	114		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.6	108		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.7	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (77)	150 (126)
I.BLK-PL092693.D	PIBLK-PL092693.D	Decachlorobiphenyl	1	20	23.1	115		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	22.4	112		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	23.5	118		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.5	107		30 (77)	150 (126)
PB164445BL	PB164445BL	Decachlorobiphenyl	1	20	19.2	96		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.3	91		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.5	92		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	17.8	89		30 (77)	150 (126)
PB164445BS	PB164445BS	Decachlorobiphenyl	1	20	19.5	98		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.1	91		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.4	92		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	17.0	85		30 (77)	150 (126)
PB164393TB	PB164393TB	Decachlorobiphenyl	1	20	19.7	98		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.3	92		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.9	94		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	17.5	87		30 (77)	150 (126)
P4578-06	WB-305-BOT	Decachlorobiphenyl	1	20	13.7	68		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.1	91		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	13.2	66		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.0	90		30 (77)	150 (126)
P4578-06MS	WB-305-BOTMS	Decachlorobiphenyl	1	20	15.9	80		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.1	91		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	15.5	78		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.4	92		30 (77)	150 (126)
P4578-06MSD	WB-305-BOTMSD	Decachlorobiphenyl	1	20	15.8	79		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.0	90		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	15.8	79		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.4	92		30 (77)	150 (126)
P4578-08	WB-305-BOT-1	Decachlorobiphenyl	1	20	16.5	83		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	17.7	89		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	16.7	83		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	17.3	86		30 (77)	150 (126)
I.BLK-PL092710.D	PIBLK-PL092710.D	Decachlorobiphenyl	1	20	23.8	119		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	23.1	115		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	24.7	124		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	22.5	113		30 (77)	150 (126)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL092701.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WB-305-BOTMS**											
P4578-06MS	gamma-BHC (Lindane)	0.5	0	0.46	ug/L	92				30 (60)	150 (152)	
	Heptachlor	0.5	0	0.47	ug/L	94				30 (56)	150 (147)	
	Heptachlor epoxide	0.5	0	0.46	ug/L	93				30 (77)	150 (143)	
	Endrin	0.5	0	0.47	ug/L	94				30 (76)	150 (144)	
	Methoxychlor	0.5	0	0.46	ug/L	91				30 (70)	150 (142)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL092702.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WB-305-BOTMSD**											
P4578-06MSD	gamma-BHC (Lindane)	0.5	0	0.46	ug/L	92		0		30 (60)	150 (152)	20 (20)
	Heptachlor	0.5	0	0.47	ug/L	94		0		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	0.5	0	0.46	ug/L	93		0		30 (77)	150 (143)	20 (20)
	Endrin	0.5	0	0.47	ug/L	93		1		30 (76)	150 (144)	20 (20)
	Methoxychlor	0.5	0	0.46	ug/L	91		0		30 (70)	150 (142)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **Datafile :** PL092698.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164445BS	gamma-BHC (Lindane)	0.05	0.048	ug/L	96				40 (82)	140 (129)	
	Heptachlor	0.05	0.050	ug/L	99				40 (79)	140 (127)	
	Heptachlor epoxide	0.05	0.049	ug/L	98				40 (81)	140 (124)	
	Endrin	0.05	0.045	ug/L	91				40 (81)	140 (128)	
	Methoxychlor	0.05	0.045	ug/L	90				40 (78)	140 (108)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164445BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab Sample ID: PB164445BL Lab File ID: PL092697.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/26/2024

Date Analyzed (1): 10/29/2024 Date Analyzed (2): 10/29/2024

Time Analyzed (1): 10:43 Time Analyzed (2): 10:43

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR2 ID: 0.32 (mm) GC Column (2): ZB-MR1 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB164445BS	PB164445BS	PL092698.D	10/29/2024	10/29/2024
PB164393TB	PB164393TB	PL092699.D	10/29/2024	10/29/2024
WB-305-BOT	P4578-06	PL092700.D	10/29/2024	10/29/2024
WB-305-BOTMS	P4578-06MS	PL092701.D	10/29/2024	10/29/2024
WB-305-BOTMSD	P4578-06MSD	PL092702.D	10/29/2024	10/29/2024
WB-305-BOT-1	P4578-08	PL092703.D	10/29/2024	10/29/2024

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164445BL	SDG No.:	P4578
Lab Sample ID:	PB164445BL	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092697.D	1	10/26/24 12:50	10/29/24 10:43	PB164445

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.00050	U	0.00050	0.0050	ug/L
76-44-8	Heptachlor	0.00050	U	0.00050	0.0050	ug/L
1024-57-3	Heptachlor epoxide	0.00090	U	0.00090	0.0050	ug/L
72-20-8	Endrin	0.00040	U	0.00040	0.0050	ug/L
72-43-5	Methoxychlor	0.0011	U	0.0011	0.0050	ug/L
8001-35-2	Toxaphene	0.015	U	0.015	0.10	ug/L
57-74-9	Chlordane	0.0082	U	0.0082	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.2		30 (43) - 150 (140)	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.3		30 (77) - 150 (126)	91%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/28/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/28/24
Client Sample ID:	PIBLK-PL092652.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PL092652.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092652.D	1		10/28/24	PL102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.7		30 (43) - 150 (140)	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		30 (77) - 150 (126)	108%	SPK: 20

Comments:

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LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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* = Values outside of QC limits
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/29/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/29/24
Client Sample ID:	PIBLK-PL092693.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PL092693.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092693.D	1		10/29/24	PL102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.5		30 (43) - 150 (140)	118%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.4		30 (77) - 150 (126)	112%	SPK: 20

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/29/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/29/24
Client Sample ID:	PIBLK-PL092710.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PL092710.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092710.D	1		10/29/24	PL102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.7		30 (43) - 150 (140)	124%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.1		30 (77) - 150 (126)	115%	SPK: 20

Comments:

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M = MS/MSD acceptance criteria did not meet requirements

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164445BS	SDG No.:	P4578
Lab Sample ID:	PB164445BS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092698.D	1	10/26/24 12:50	10/29/24 10:57	PB164445

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.048		0.00050	0.0050	ug/L
76-44-8	Heptachlor	0.050		0.00050	0.0050	ug/L
1024-57-3	Heptachlor epoxide	0.049		0.00090	0.0050	ug/L
72-20-8	Endrin	0.045		0.00040	0.0050	ug/L
72-43-5	Methoxychlor	0.045		0.0011	0.0050	ug/L
8001-35-2	Toxaphene	0.015	U	0.015	0.10	ug/L
57-74-9	Chlordane	0.0082	U	0.0082	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.5		30 (43) - 150 (140)	98%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.1		30 (77) - 150 (126)	91%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOTMS	SDG No.:	P4578
Lab Sample ID:	P4578-06MS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092701.D	1	10/26/24 12:50	10/29/24 11:37	PB164445

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.46		0.0049	0.050	ug/L
76-44-8	Heptachlor	0.47		0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.46		0.0090	0.050	ug/L
72-20-8	Endrin	0.47		0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.46		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.9		30 (43) - 150 (140)	80%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		30 (77) - 150 (126)	92%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOTMSD	SDG No.:	P4578
Lab Sample ID:	P4578-06MSD	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092702.D	1	10/26/24 12:50	10/29/24 11:50	PB164445

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.46		0.0049	0.050	ug/L
76-44-8	Heptachlor	0.47		0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.46		0.0090	0.050	ug/L
72-20-8	Endrin	0.47		0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.46		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.8		30 (43) - 150 (140)	79%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		30 (77) - 150 (126)	92%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
Endrin	6.58	6.58	6.57	6.57	6.57	6.57	6.47	6.67
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
Heptachlor	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Heptachlor epoxide	5.69	5.69	5.68	5.69	5.68	5.68	5.58	5.78
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	7.92	7.92	7.92	7.92	7.92	7.92	7.82	8.02
Endrin	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
gamma-BHC (Lindane)	3.61	3.61	3.61	3.61	3.61	3.61	3.51	3.71
Heptachlor	3.95	3.95	3.95	3.95	3.95	3.95	3.85	4.05
Heptachlor epoxide	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Methoxychlor	6.61	6.62	6.62	6.62	6.61	6.61	6.51	6.71
Tetrachloro-m-xylene	2.78	2.78	2.78	2.78	2.78	2.78	2.68	2.88

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL092655.D **CF 075 =** PL092656.D

CF 050 = PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	1738840000	1756630000	1819720000	1998760000	2308800000	1924550000	12
Endrin	2111540000	2103000000	2121260000	2324460000	2723040000	2276660000	12
gamma-BHC (Lindane)	3198960000	3133030000	3104430000	3278360000	3583040000	3259560000	6
Heptachlor	2817300000	2795570000	2829220000	3064000000	3509480000	3003110000	10
Heptachlor epoxide	2536240000	2521530000	2566410000	2821600000	3361270000	2761410000	13
Methoxychlor	1040530000	1050870000	1078280000	1189160000	1341160000	1140000000	11
Tetrachloro-m-xylene	2319350000	2304070000	2328420000	2512350000	2786990000	2450240000	8

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_L

Calibration Date(s): 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL092655.D **CF 075 =** PL092656.D

CF 050 = PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	2606810000	2575500000	2605540000	2793460000	3064890000	2729240000	8
Endrin	2969490000	2878380000	2828080000	2876210000	2912860000	2893010000	2
gamma-BHC (Lindane)	4083950000	3934430000	3833920000	3828430000	3616530000	3859450000	4
Heptachlor	3876200000	3766580000	3709120000	3779090000	3738650000	3773930000	2
Heptachlor epoxide	3405420000	3318630000	3272090000	3352830000	3358060000	3341410000	1
Methoxychlor	1400820000	1385450000	1393920000	1470360000	1489590000	1428030000	3
Tetrachloro-m-xylene	2724750000	2661560000	2643180000	2728430000	2847900000	2721160000	3

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	4.70	4.60	4.80	106996000
		2	5.23	5.13	5.33	110397000
		3	5.94	5.84	6.04	372388000
		4	6.02	5.92	6.12	458405000
		5	6.87	6.77	6.97	92161100
Toxaphene	500	1	6.24	6.14	6.34	23962400
		2	6.44	6.34	6.54	13823600
		3	7.06	6.96	7.16	79159800
		4	7.15	7.05	7.25	59803700
		5	7.93	7.83	8.03	45329200

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	3.78	3.68	3.88	105092000
		2	4.35	4.25	4.45	120641000
		3	4.98	4.88	5.08	361048000
		4	5.05	4.95	5.15	346821000
		5	5.94	5.84	6.04	124060000
Toxaphene	500	1	5.01	4.91	5.11	19952700
		2	5.33	5.23	5.43	19749600
		3	6.61	6.51	6.71	70222500
		4	6.73	6.63	6.83	98337700
		5	7.05	6.95	7.15	65479700

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/29/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 10:15 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.58	6.57	6.47	6.67	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/29/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 10:15 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.01
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.61	6.62	6.52	6.72	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/29/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092695.D **Time Analyzed:** 10:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.053	8.954	9.154	49.010	50.000	-2.0
Endrin	6.575	6.474	6.674	47.250	50.000	-5.5
gamma-BHC (Lindane)	4.328	4.228	4.428	49.670	50.000	-0.7
Heptachlor	4.916	4.817	5.017	48.700	50.000	-2.6
Heptachlor epoxide	5.684	5.584	5.784	50.730	50.000	1.5
Methoxychlor	7.498	7.399	7.599	48.570	50.000	-2.9
Tetrachloro-m-xylene	3.540	3.440	3.640	49.870	50.000	-0.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/29/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092695.D **Time Analyzed:** 10:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.915	7.816	8.016	51.500	50.000	3.0
Endrin	5.641	5.541	5.741	51.690	50.000	3.4
gamma-BHC (Lindane)	3.611	3.511	3.711	51.790	50.000	3.6
Heptachlor	3.950	3.849	4.049	50.790	50.000	1.6
Heptachlor epoxide	4.732	4.632	4.832	51.090	50.000	2.2
Methoxychlor	6.614	6.515	6.715	49.430	50.000	-1.1
Tetrachloro-m-xylene	2.779	2.678	2.878	50.880	50.000	1.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/29/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 14:07 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	0.00
Endrin	6.58	6.57	6.47	6.67	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/29/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 14:07 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.61	6.62	6.52	6.72	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/29/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092711.D **Time Analyzed:** 14:07

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.054	8.954	9.154	50.330	50.000	0.7
Endrin	6.575	6.474	6.674	46.800	50.000	-6.4
gamma-BHC (Lindane)	4.329	4.228	4.428	51.390	50.000	2.8
Heptachlor	4.917	4.817	5.017	49.780	50.000	-0.4
Heptachlor epoxide	5.685	5.584	5.784	50.060	50.000	0.1
Methoxychlor	7.500	7.399	7.599	46.810	50.000	-6.4
Tetrachloro-m-xylene	3.541	3.440	3.640	51.450	50.000	2.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/29/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092711.D **Time Analyzed:** 14:07

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.916	7.816	8.016	53.470	50.000	6.9
Endrin	5.641	5.541	5.741	52.150	50.000	4.3
gamma-BHC (Lindane)	3.610	3.511	3.711	53.770	50.000	7.5
Heptachlor	3.949	3.849	4.049	52.090	50.000	4.2
Heptachlor epoxide	4.732	4.632	4.832	53.380	50.000	6.8
Methoxychlor	6.614	6.515	6.715	49.000	50.000	-2.0
Tetrachloro-m-xylene	2.778	2.678	2.878	52.950	50.000	5.9

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.059	8.960	9.160	19.970	20.000	-0.2
Tetrachloro-m-xylene	3.546	3.500	3.600	19.290	20.000	-3.6
alpha-BHC	4.001	3.950	4.050	9.920	10.000	-0.8
beta-BHC	4.531	4.480	4.580	10.060	10.000	0.6
gamma-BHC (Lindane)	4.334	4.280	4.380	9.660	10.000	-3.4
Endrin	6.580	6.510	6.650	41.060	50.000	-17.9
4,4'-DDT	7.030	6.960	7.100	88.060	100.000	-11.9
Methoxychlor	7.505	7.430	7.580	204.090	250.000	-18.4

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.820	8.020	19.080	20.000	-4.6
Tetrachloro-m-xylene	2.778	2.730	2.830	18.500	20.000	-7.5
alpha-BHC	3.281	3.230	3.330	8.630	10.000	-13.7
beta-BHC	3.911	3.860	3.960	9.760	10.000	-2.4
gamma-BHC (Lindane)	3.611	3.560	3.660	8.390	10.000	-16.1
Endrin	5.643	5.570	5.710	44.130	50.000	-11.7
4,4'-DDT	6.042	5.970	6.110	98.070	100.000	-1.9
Methoxychlor	6.616	6.550	6.690	225.800	250.000	-9.7

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Fax : 908 789 8922

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092694.D **Date Analyzed:** 10/29/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:02

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.054	8.950	9.150	20.630	20.000	3.2
Tetrachloro-m-xylene	3.541	3.490	3.590	20.180	20.000	0.9
alpha-BHC	3.996	3.950	4.050	10.410	10.000	4.1
beta-BHC	4.526	4.480	4.580	10.930	10.000	9.3
gamma-BHC (Lindane)	4.329	4.280	4.380	10.230	10.000	2.3
Endrin	6.575	6.500	6.650	42.430	50.000	-15.1
4,4'-DDT	7.024	6.950	7.090	89.050	100.000	-11.0
Methoxychlor	7.500	7.430	7.570	209.100	250.000	-16.4

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092694.D **Date Analyzed:** 10/29/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:02

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.916	7.820	8.020	20.450	20.000	2.3
Tetrachloro-m-xylene	2.779	2.730	2.830	19.400	20.000	-3.0
alpha-BHC	3.281	3.230	3.330	9.150	10.000	-8.5
beta-BHC	3.911	3.860	3.960	10.440	10.000	4.4
gamma-BHC (Lindane)	3.611	3.560	3.660	8.940	10.000	-10.6
Endrin	5.642	5.570	5.710	47.400	50.000	-5.2
4,4'-DDT	6.040	5.970	6.110	102.500	100.000	2.5
Methoxychlor	6.615	6.540	6.690	231.820	250.000	-7.3

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	10/28/2024	13:55	PL092652.D	9.05	3.54
PEM	PEM	10/28/2024	14:16	PL092653.D	9.06	3.55
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	9.05	3.54
PSTDICC100	PSTDICC100	10/28/2024	14:43	PL092655.D	9.05	3.54
PSTDICC075	PSTDICC075	10/28/2024	14:56	PL092656.D	9.05	3.54
PSTDICC050	PSTDICC050	10/28/2024	15:09	PL092657.D	9.05	3.54
PSTDICC025	PSTDICC025	10/28/2024	15:23	PL092658.D	9.05	3.54
PSTDICC005	PSTDICC005	10/28/2024	15:36	PL092659.D	9.05	3.54
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	9.06	3.54
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	9.05	3.54
I.BLK	I.BLK	10/29/2024	09:48	PL092693.D	9.06	3.54
PEM	PEM	10/29/2024	10:02	PL092694.D	9.05	3.54
PSTDCCC050	PSTDCCC050	10/29/2024	10:15	PL092695.D	9.05	3.54
PB164445BL	PB164445BL	10/29/2024	10:43	PL092697.D	9.05	3.54
PB164445BS	PB164445BS	10/29/2024	10:57	PL092698.D	9.05	3.54
PB164393TB	PB164393TB	10/29/2024	11:10	PL092699.D	9.05	3.54
WB-305-BOT	P4578-06	10/29/2024	11:23	PL092700.D	9.05	3.54
WB-305-BOTMS	P4578-06MS	10/29/2024	11:37	PL092701.D	9.05	3.54
WB-305-BOTMSD	P4578-06MSD	10/29/2024	11:50	PL092702.D	9.05	3.54
WB-305-BOT-1	P4578-08	10/29/2024	12:04	PL092703.D	9.05	3.54
I.BLK	I.BLK	10/29/2024	13:53	PL092710.D	9.05	3.54
PSTDCCC050	PSTDCCC050	10/29/2024	14:07	PL092711.D	9.05	3.54

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Fax : 908 789 8922

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	10/28/2024	13:55	PL092652.D	7.92	2.78
PEM	PEM	10/28/2024	14:16	PL092653.D	7.92	2.78
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	7.92	2.78
PSTDICC100	PSTDICC100	10/28/2024	14:43	PL092655.D	7.92	2.78
PSTDICC075	PSTDICC075	10/28/2024	14:56	PL092656.D	7.92	2.78
PSTDICC050	PSTDICC050	10/28/2024	15:09	PL092657.D	7.92	2.78
PSTDICC025	PSTDICC025	10/28/2024	15:23	PL092658.D	7.92	2.78
PSTDICC005	PSTDICC005	10/28/2024	15:36	PL092659.D	7.92	2.78
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	7.92	2.78
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	7.92	2.78
I.BLK	I.BLK	10/29/2024	09:48	PL092693.D	7.92	2.78
PEM	PEM	10/29/2024	10:02	PL092694.D	7.92	2.78
PSTDCCC050	PSTDCCC050	10/29/2024	10:15	PL092695.D	7.92	2.78
PB164445BL	PB164445BL	10/29/2024	10:43	PL092697.D	7.92	2.78
PB164445BS	PB164445BS	10/29/2024	10:57	PL092698.D	7.92	2.78
PB164393TB	PB164393TB	10/29/2024	11:10	PL092699.D	7.92	2.78
WB-305-BOT	P4578-06	10/29/2024	11:23	PL092700.D	7.92	2.78
WB-305-BOTMS	P4578-06MS	10/29/2024	11:37	PL092701.D	7.91	2.78
WB-305-BOTMSD	P4578-06MSD	10/29/2024	11:50	PL092702.D	7.92	2.78
WB-305-BOT-1	P4578-08	10/29/2024	12:04	PL092703.D	7.92	2.78
I.BLK	I.BLK	10/29/2024	13:53	PL092710.D	7.92	2.78
PSTDCCC050	PSTDCCC050	10/29/2024	14:07	PL092711.D	7.92	2.78

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164445BS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Lab Sample ID: PB164445BS **Date(s) Analyzed:** 10/29/2024 10/29/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.046	4.2
	2	3.61	3.56	3.66	0.048	
Endrin	1	6.57	6.52	6.62	0.043	6.6
	2	5.64	5.59	5.69	0.045	
Methoxychlor	1	7.50	7.45	7.55	0.045	0.2
	2	6.61	6.56	6.66	0.045	
Heptachlor	1	4.92	4.87	4.97	0.048	4.1
	2	3.95	3.90	4.00	0.050	
Heptachlor epoxide	1	5.68	5.63	5.73	0.046	6.1
	2	4.73	4.68	4.78	0.049	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-305-BOTMS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Lab Sample ID: P4578-06MS **Date(s) Analyzed:** 10/29/2024 10/29/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	0.44	3.8
	2	6.62	6.57	6.67	0.46	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.44	5.8
	2	3.61	3.56	3.66	0.46	
Heptachlor	1	4.92	4.87	4.97	0.45	4
	2	3.95	3.90	4.00	0.47	
Heptachlor epoxide	1	5.68	5.63	5.73	0.44	5.4
	2	4.73	4.68	4.78	0.46	
Endrin	1	6.57	6.52	6.62	0.43	8.6
	2	5.64	5.59	5.69	0.47	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-305-BOTMSD

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Lab Sample ID: P4578-06MSD **Date(s) Analyzed:** 10/29/2024 10/29/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	0.44	4.2
	2	6.61	6.56	6.66	0.46	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.43	5.8
	2	3.61	3.56	3.66	0.46	
Heptachlor	1	4.92	4.87	4.97	0.45	4
	2	3.95	3.90	4.00	0.47	
Heptachlor epoxide	1	5.68	5.63	5.73	0.44	6.1
	2	4.73	4.68	4.78	0.46	
Endrin	1	6.57	6.52	6.62	0.43	7.6
	2	5.64	5.59	5.69	0.47	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092700.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 11:23
Operator : AR\AJ
Sample : P4578-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-305-BOT

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 05:12:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.541	2.779	44417090	48927074	18.128	17.980
28)	SA Decachlor...	9.052	7.915	26283055	35975975	13.657	13.182
	Target Compounds						
2)	A alpha-BHC	3.995	3.282	1097432	1528799	0.324m	0.383

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

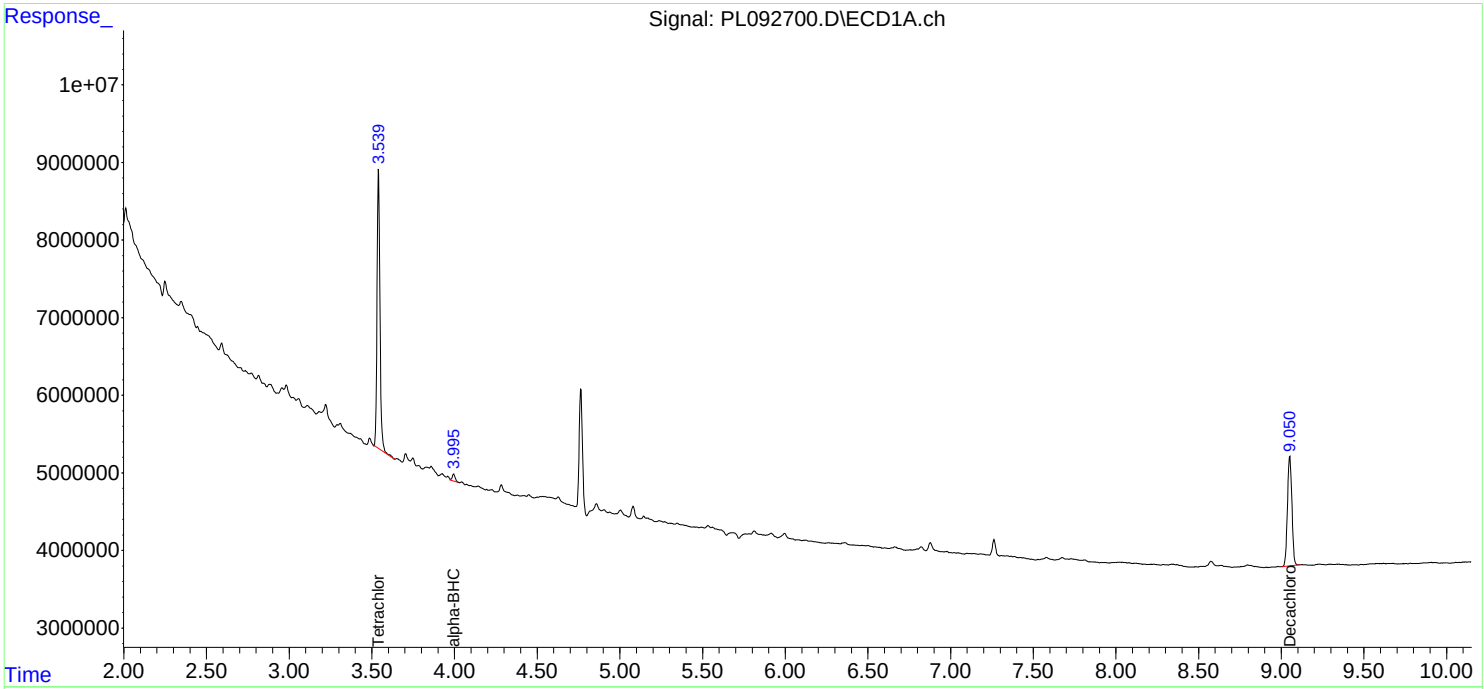
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092700.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 11:23
Operator : AR\AJ
Sample : P4578-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

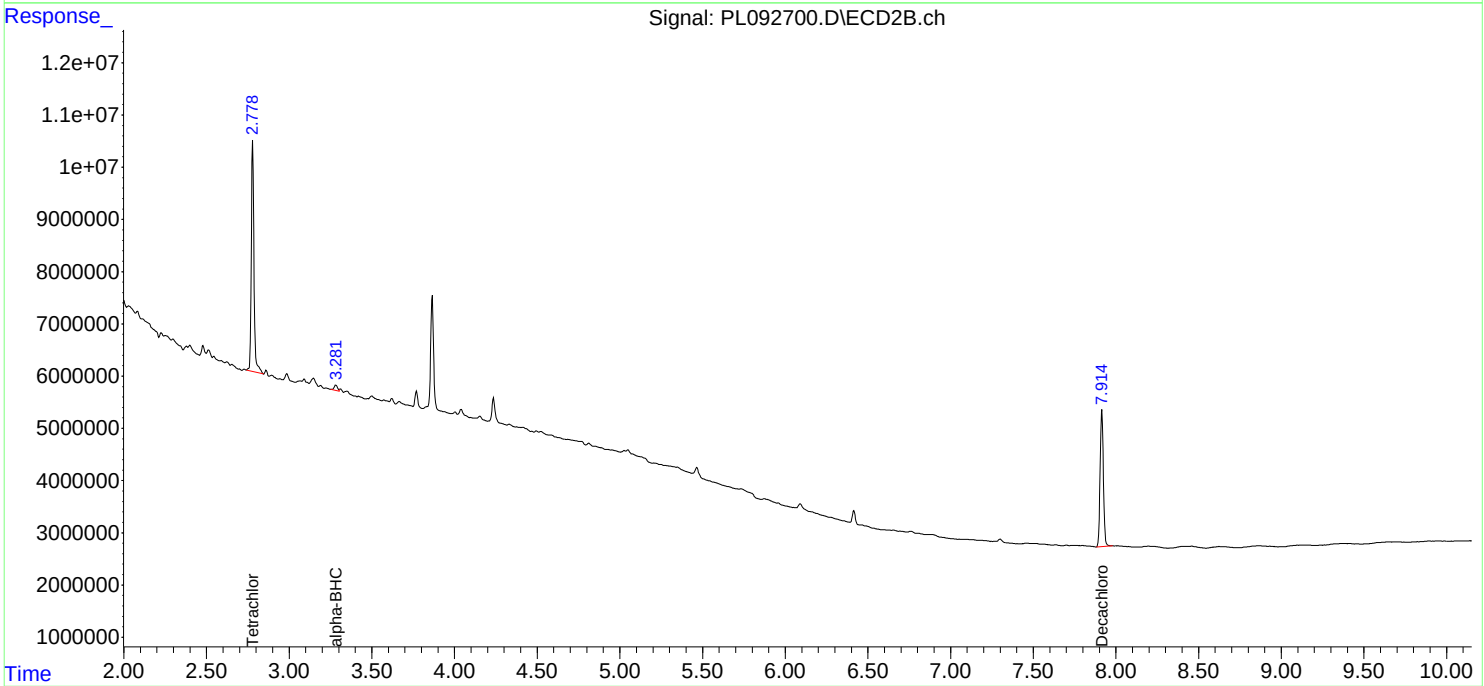
Instrument :
ECD_L
ClientSampleId :
WB-305-BOT

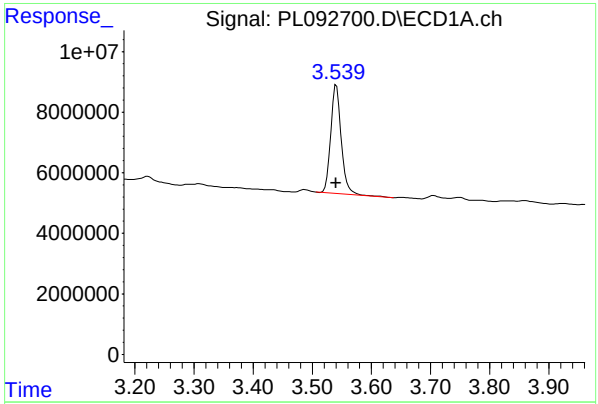
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 05:12:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm







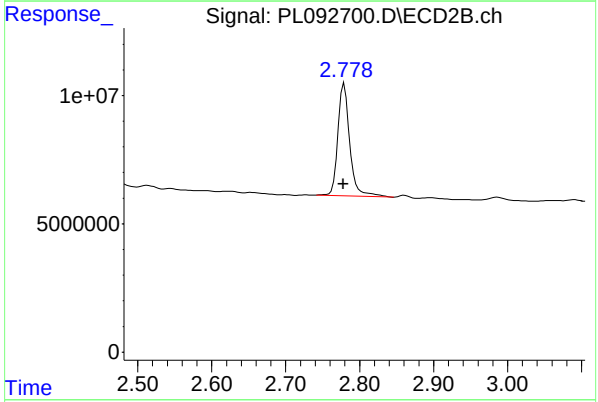
#1 Tetrachloro-m-xylene

R.T.: 3.541 min
Delta R.T.: 0.000 mi
Response: 44417090
Conc: 18.13 ng/m

Instrument :
ECD_L
ClientSampleId :
WB-305-BOT

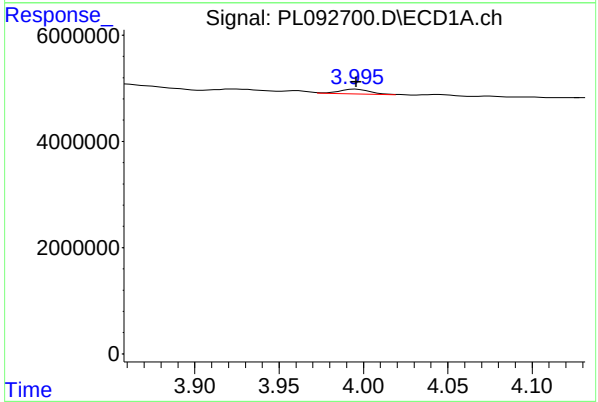
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024



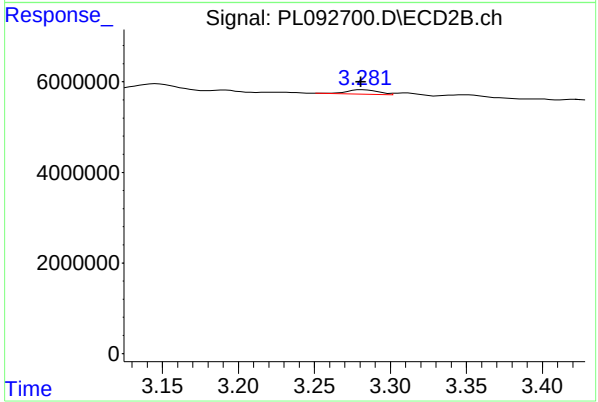
#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.001 min
Response: 48927074
Conc: 17.98 ng/ml



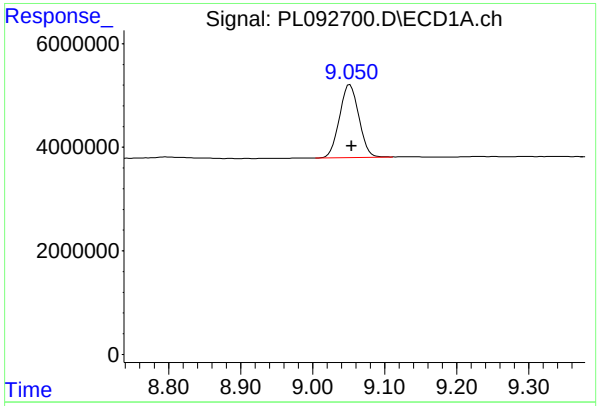
#2 alpha-BHC

R.T.: 3.995 min
Delta R.T.: -0.001 min
Response: 1097432
Conc: 0.32 ng/ml m



#2 alpha-BHC

R.T.: 3.282 min
Delta R.T.: 0.001 min
Response: 1528799
Conc: 0.38 ng/ml



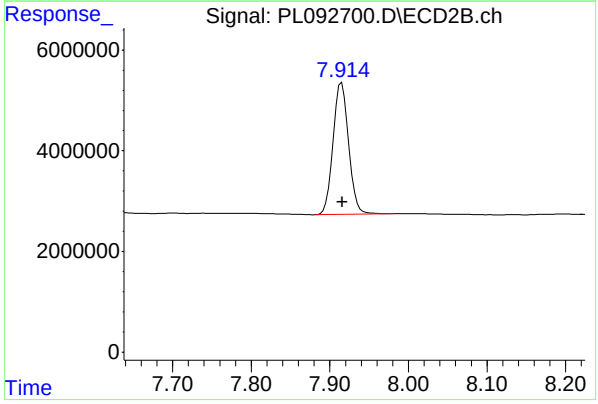
#28 Decachlorobiphenyl

R.T.: 9.052 min
Delta R.T.: -0.002 min
Response: 26283055
Conc: 13.66 ng/ml

Instrument :
ECD_L
ClientSampleId :
WB-305-BOT

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024



#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 35975975
Conc: 13.18 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092703.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 12:04
Operator : AR\AJ
Sample : P4578-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-305-BOT-1

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:13:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.539	2.779	43357398	46969618	17.695m	17.261
28)	SA Decachlor...	9.051	7.915	31815674	45553727	16.531	16.691
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

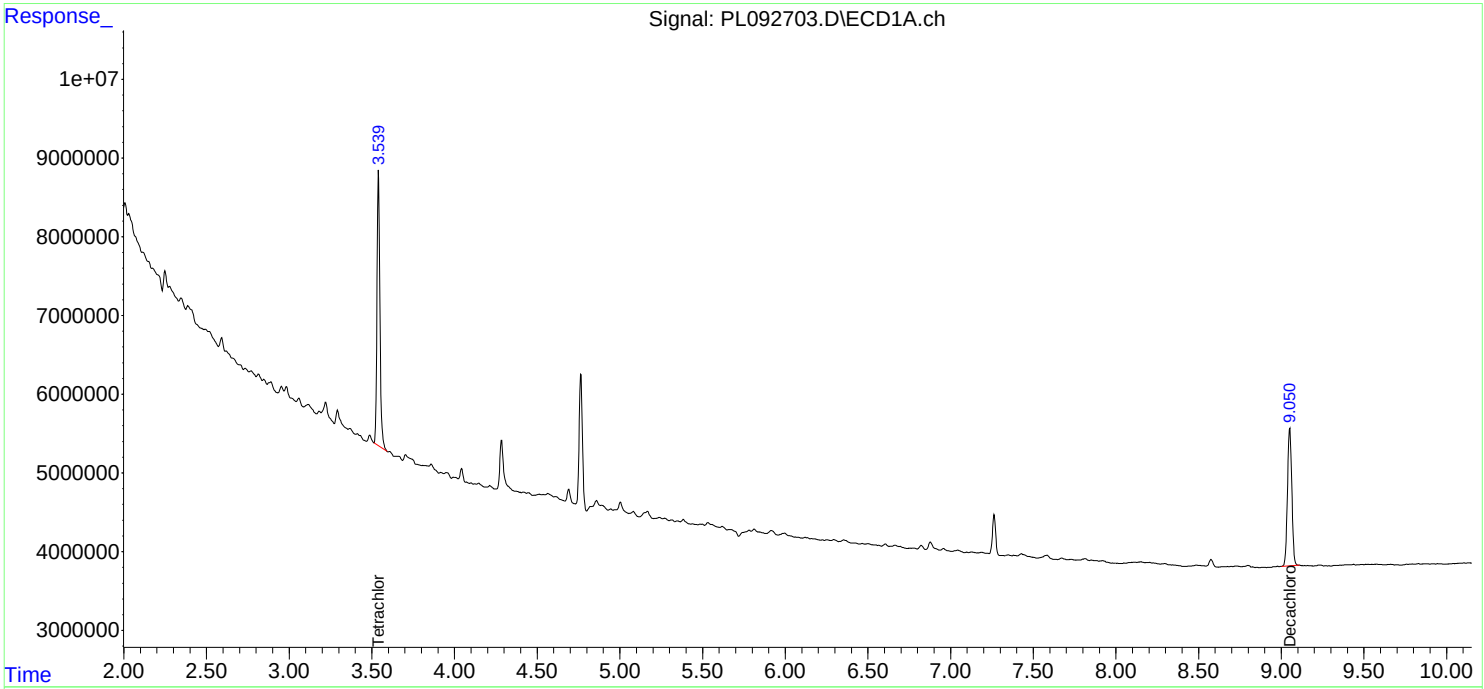
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092703.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 12:04
Operator : AR\AJ
Sample : P4578-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

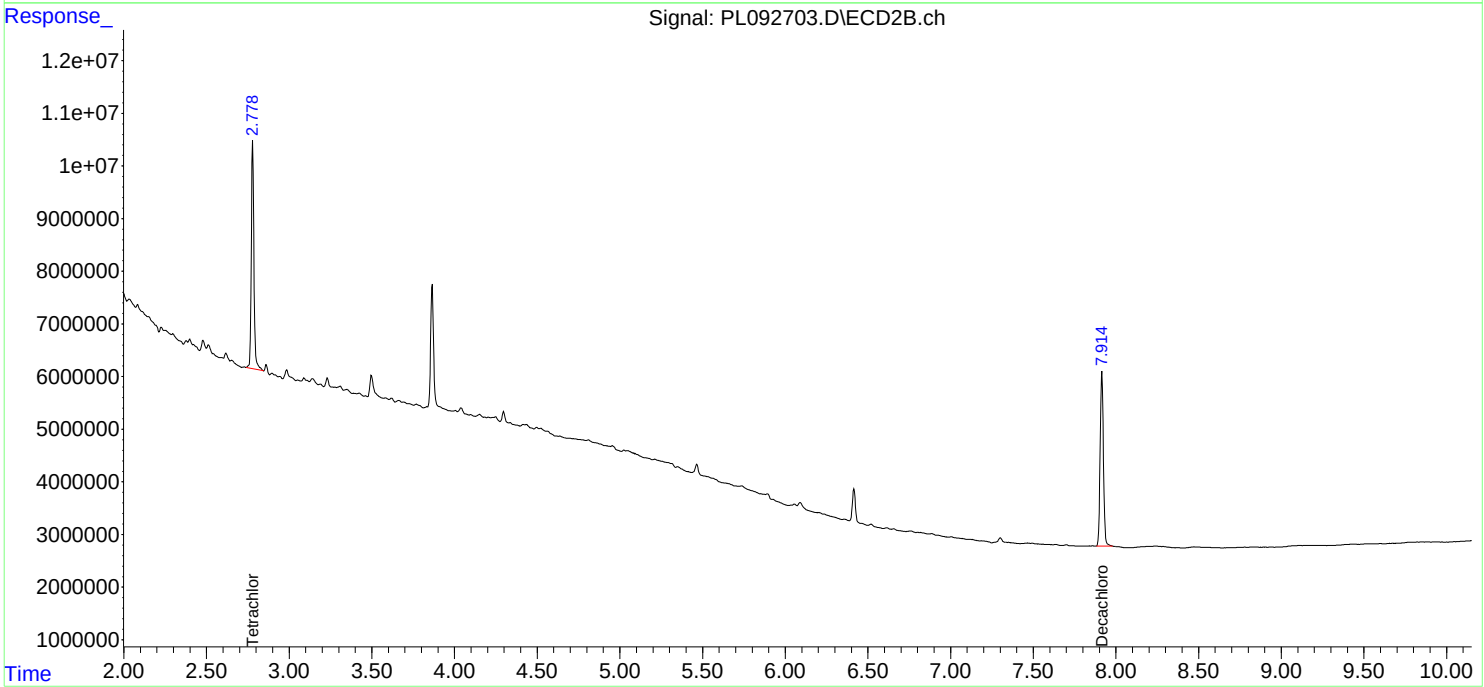
Instrument :
ECD_L
ClientSampleId :
WB-305-BOT-1

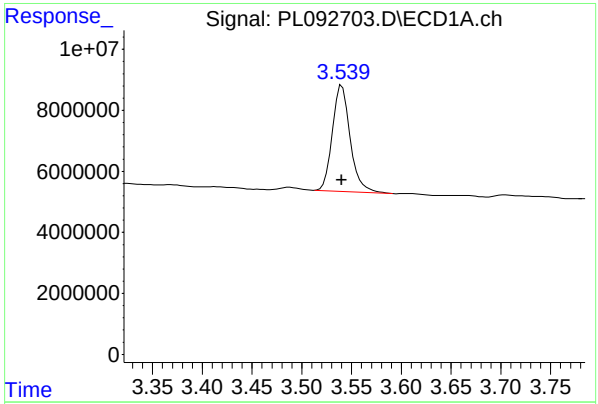
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:13:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm







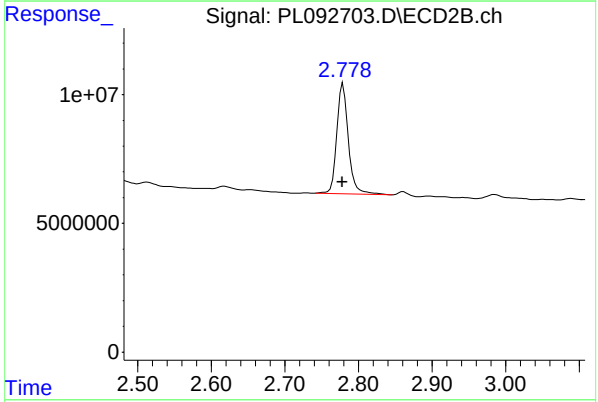
#1 Tetrachloro-m-xylene

R.T.: 3.539 min
Delta R.T.: 0.000 min
Response: 43357398
Conc: 17.70 ng/ml

Instrument :
ECD_L
ClientSampleId :
WB-305-BOT-1

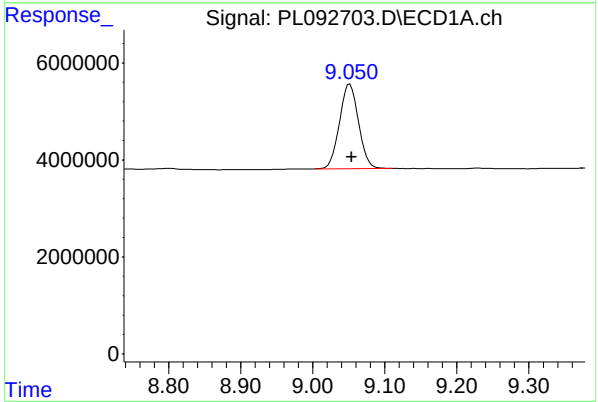
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024



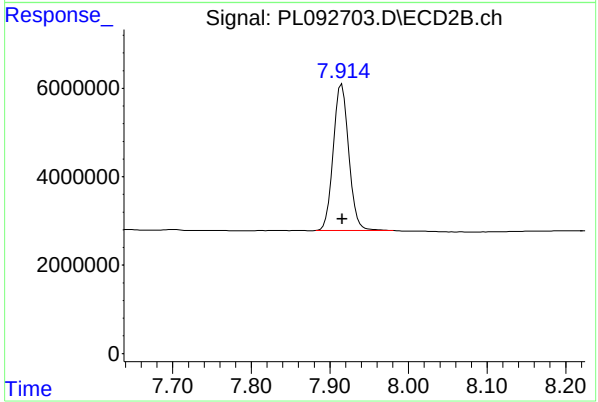
#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.001 min
Response: 46969618
Conc: 17.26 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.051 min
Delta R.T.: -0.003 min
Response: 31815674
Conc: 16.53 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 45553727
Conc: 16.69 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092699.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 11:10
Operator : AR\AJ
Sample : PB164393TB
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164393TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:10:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.540	2.779	44873551	47553325	18.314	17.475
28)	SA Decachlor...	9.052	7.915	37864442	51503356	19.674	18.871
	Target Compounds						

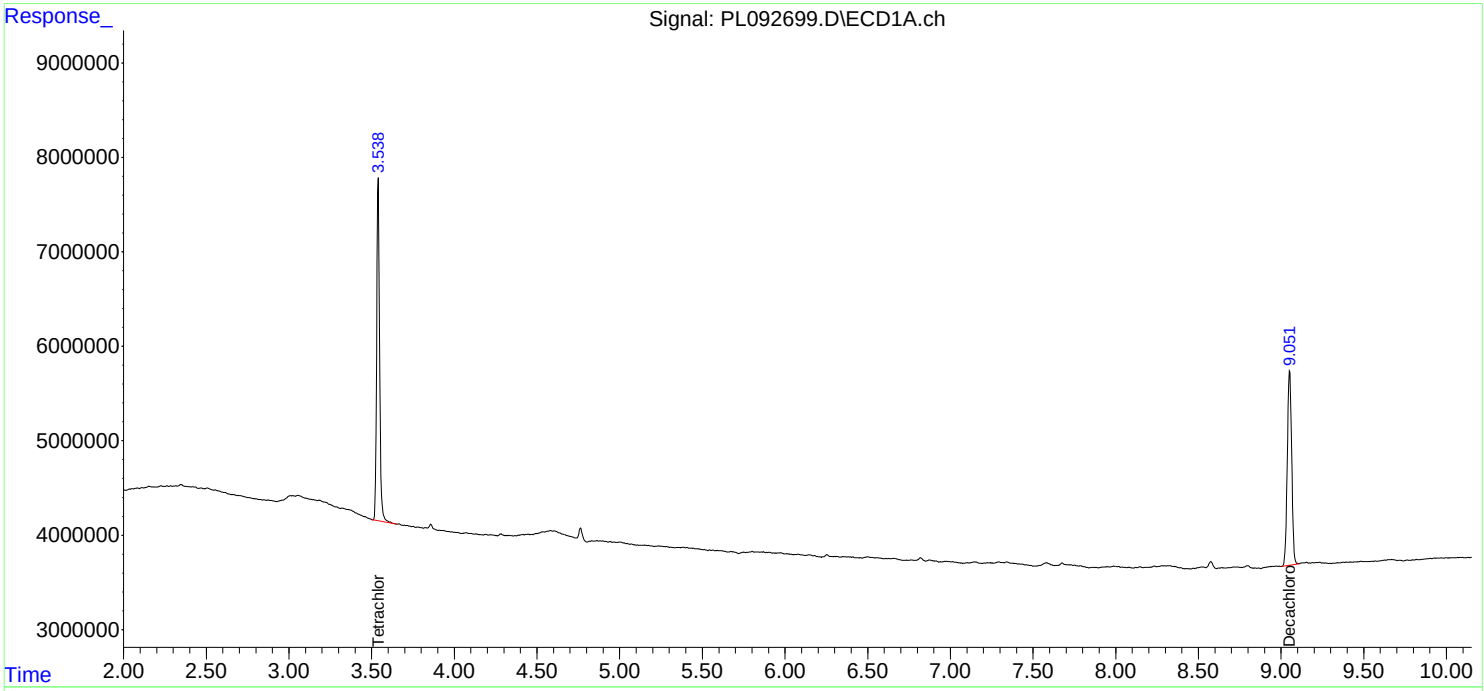
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

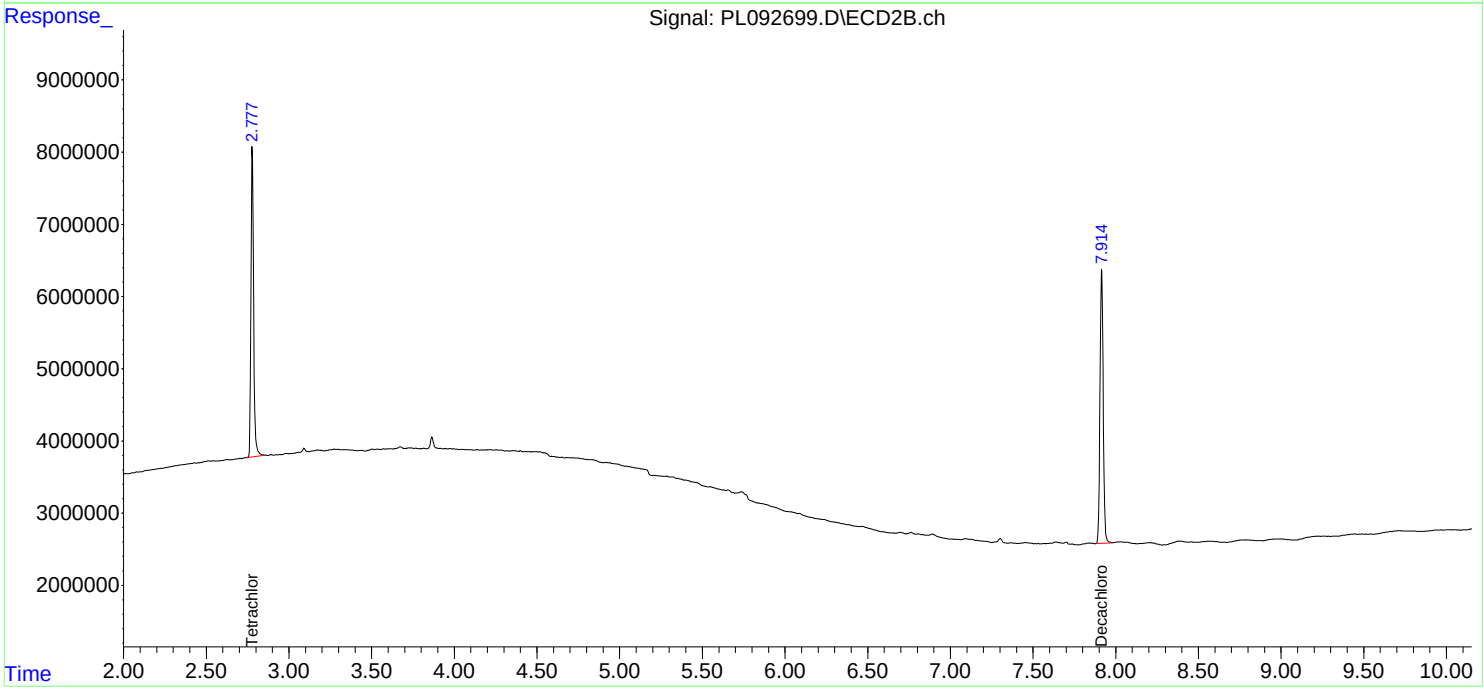
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092699.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 11:10
Operator : AR\AJ
Sample : PB164393TB
Misc :
ALS Vial : 8 Sample Multiplier: 1

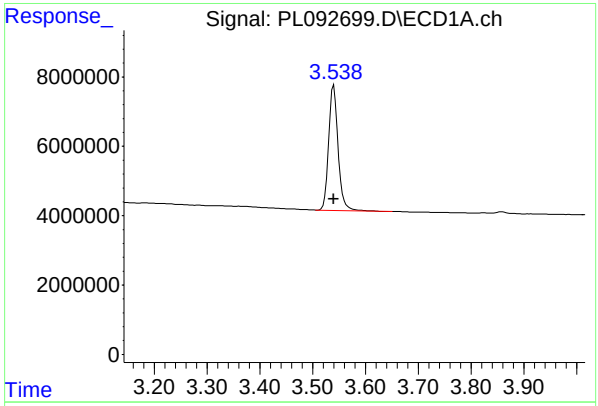
Instrument :
ECD_L
ClientSampleId :
PB164393TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:10:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



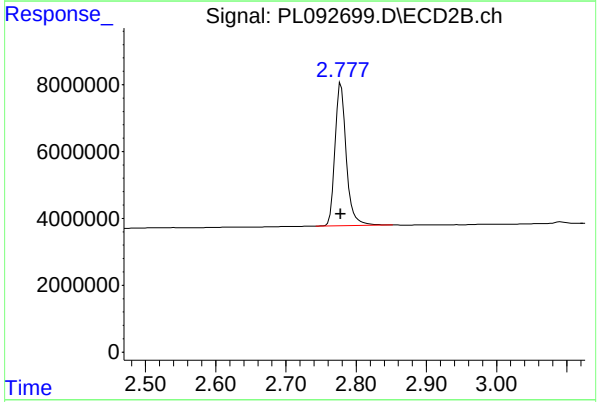




#1 Tetrachloro-m-xylene

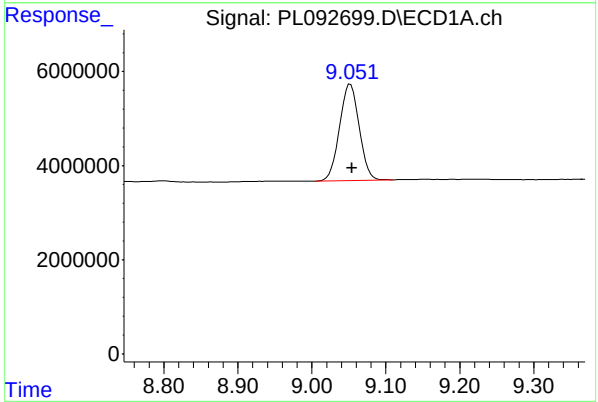
R.T.: 3.540 min
Delta R.T.: 0.000 min
Response: 44873551
Conc: 18.31 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB164393TB



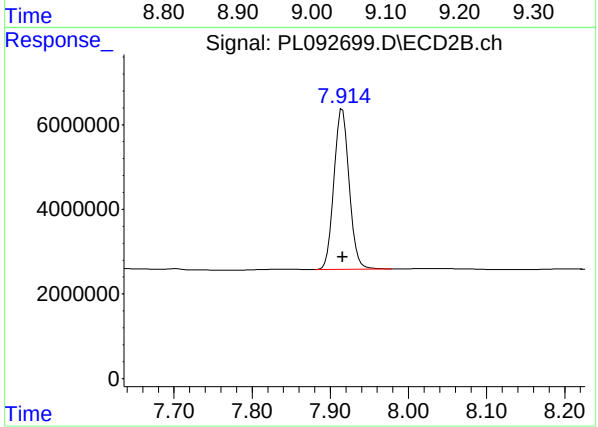
#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.000 min
Response: 47553325
Conc: 17.48 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.052 min
Delta R.T.: -0.002 min
Response: 37864442
Conc: 19.67 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 51503356
Conc: 18.87 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092697.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 10:43
Operator : AR\AJ
Sample : PB164445BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164445BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:09:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.540	2.778	44714826	48353246	18.249	17.769
28)	SA Decachlor...	9.053	7.915	36975516	50429295	19.213	18.477
	Target Compounds						

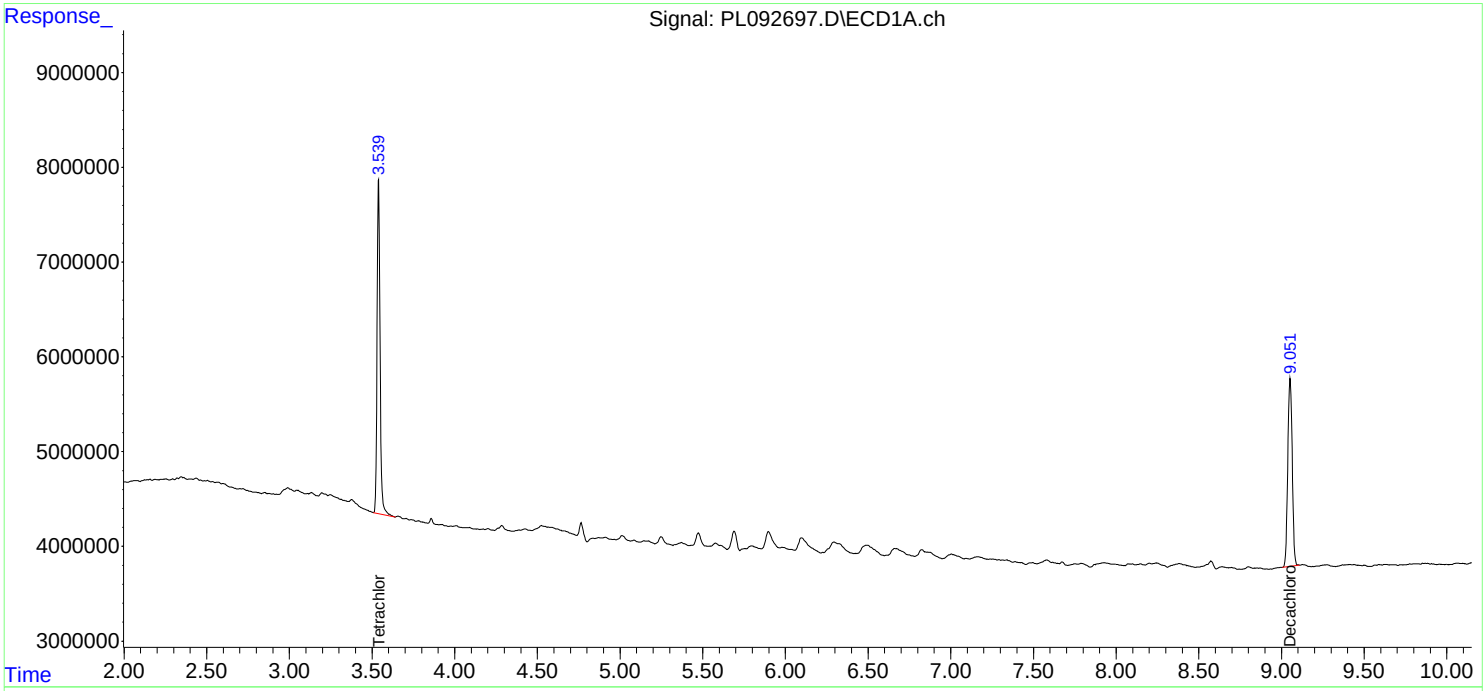
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

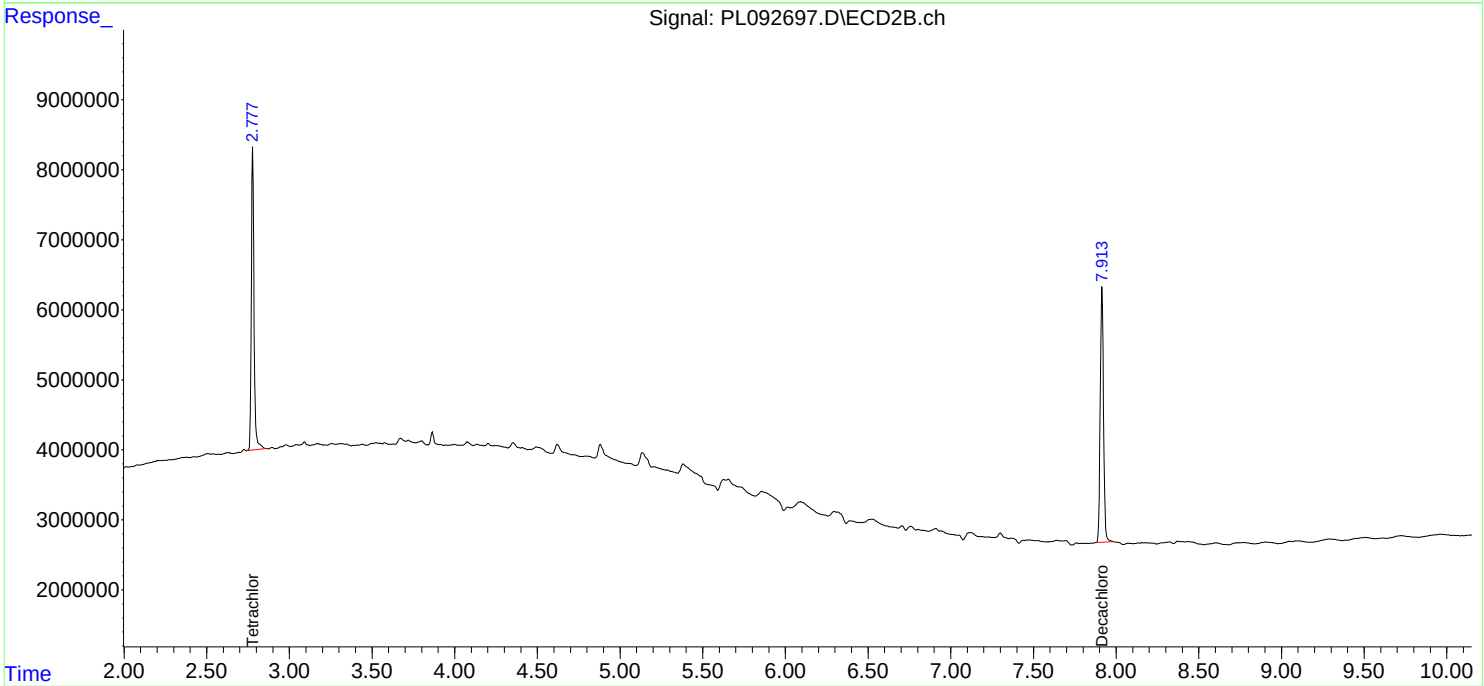
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092697.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 10:43
Operator : AR\AJ
Sample : PB164445BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

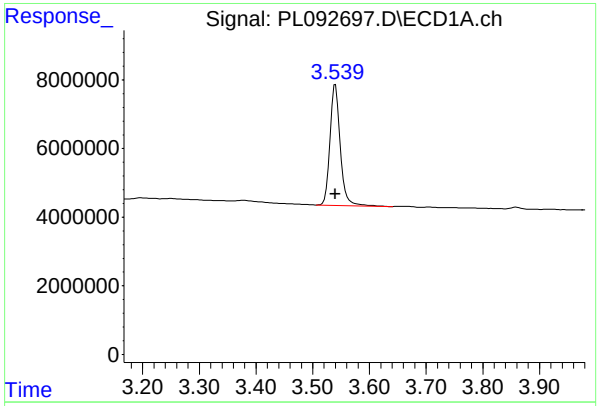
Instrument :
ECD_L
ClientSampleId :
PB164445BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:09:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



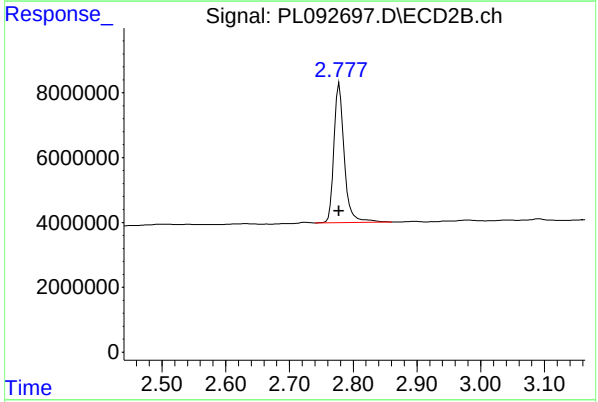




#1 Tetrachloro-m-xylene

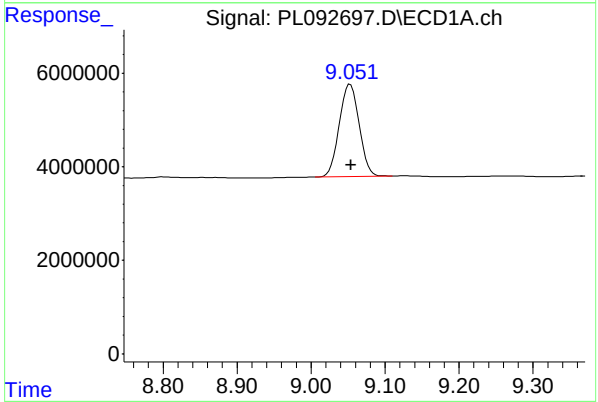
R.T.: 3.540 min
Delta R.T.: 0.000 min
Response: 44714826
Conc: 18.25 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB164445BL



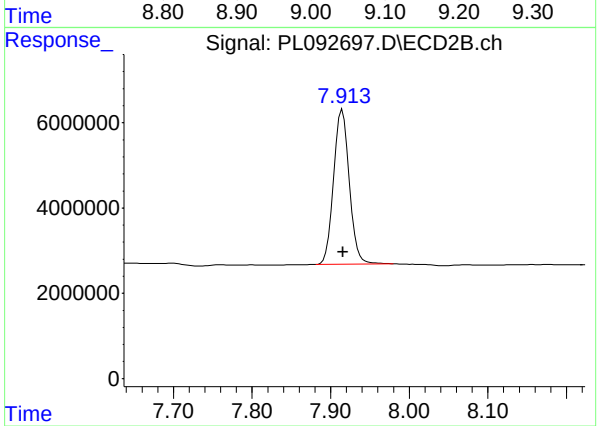
#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 48353246
Conc: 17.77 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: -0.001 min
Response: 36975516
Conc: 19.21 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 50429295
Conc: 18.48 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092698.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 10:57
Operator : AR\AJ
Sample : PB164445BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164445BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:10:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.540	2.779	44398574	46338942	18.120	17.029
28) SA	Decachlor...	9.052	7.915	37613979	50150936	19.544	18.375
	Target Compounds						
2) A	alpha-BHC	3.996	3.281	158.7E6	194.5E6	46.784	48.740
3) MA	gamma-BHC...	4.328	3.611	150.2E6	185.7E6	46.083	48.121
4) MA	Heptachlor	4.917	3.950	142.6E6	186.7E6	47.468	49.469
5) MB	Aldrin	5.258	4.230	136.4E6	176.7E6	45.446	48.269
6) B	beta-BHC	4.526	3.911	69281571	81270375	47.930	49.367
7) B	delta-BHC	4.772	4.140	130.4E6	163.0E6	41.673	42.424
8) B	Heptachlo...	5.684	4.732	127.5E6	164.2E6	46.174	49.139
9) A	Endosulfan I	6.069	5.101	118.0E6	154.4E6	47.176	50.581
10) B	gamma-Chl...	5.940	4.982	127.9E6	170.1E6	48.086	50.595
11) B	alpha-Chl...	6.019	5.045	126.6E6	167.4E6	47.824	50.332
12) B	4,4'-DDE	6.192	5.234	113.6E6	163.0E6	47.934	50.592
13) MA	Dieldrin	6.344	5.366	124.6E6	166.8E6	47.265	49.938
14) MA	Endrin	6.572	5.641	96671615	131.3E6	42.462m	45.370
15) B	Endosulfa...	6.793	5.935	111.8E6	143.4E6	46.920	50.600
16) A	4,4'-DDD	6.709	5.789	95685802	129.8E6	49.849	52.139
17) MA	4,4'-DDT	7.023	6.039	97808774	124.6E6	47.256	46.449
18) B	Endrin al...	6.924	6.115	90272597	113.7E6	48.069	49.263
19) B	Endosulfa...	7.157	6.337	102.2E6	131.8E6	47.107	48.858
20) A	Methoxychlor	7.498	6.614	51144756	64247709	44.864	44.990
21) B	Endrin ke...	7.642	6.843	119.6E6	156.3E6	49.371	50.924
22)	Mirex	8.116	7.023	82686920	107.6E6	41.725	41.256

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

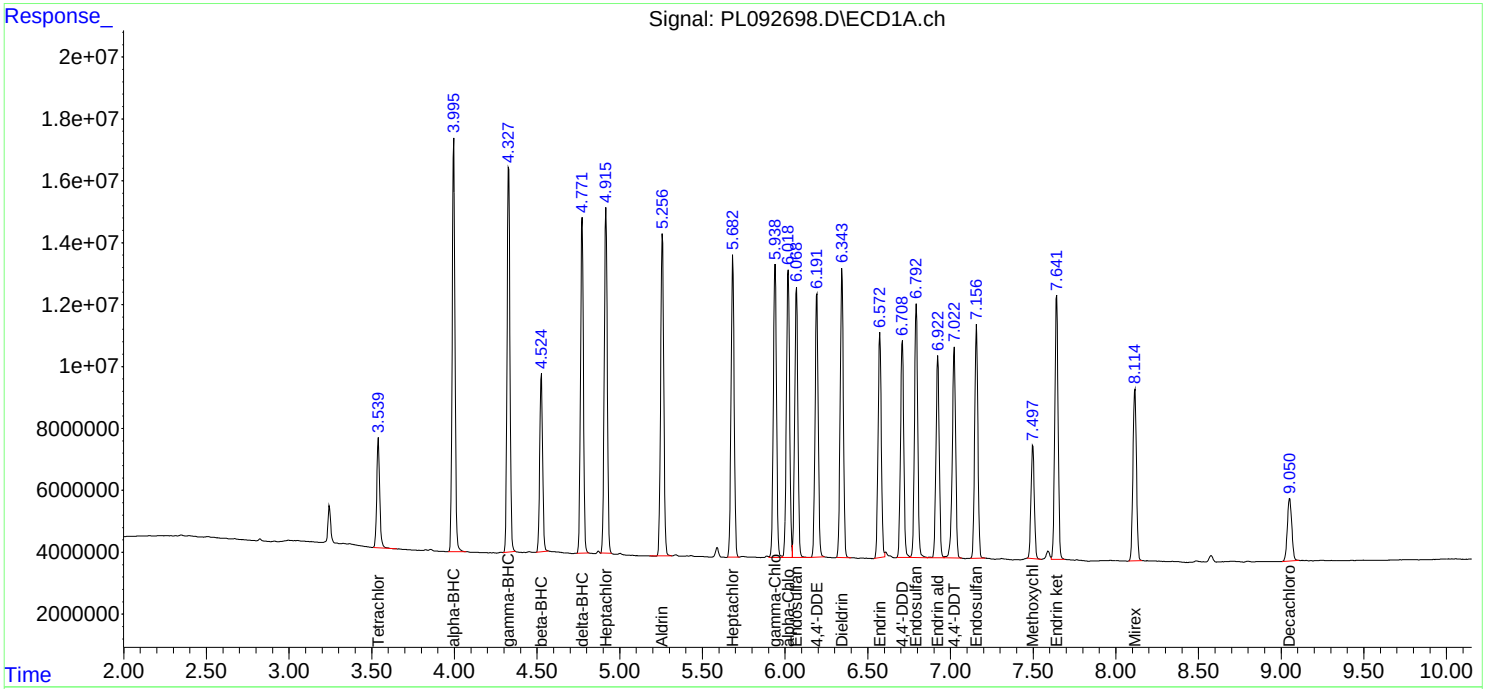
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092698.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 10:57
Operator : AR\AJ
Sample : PB164445BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

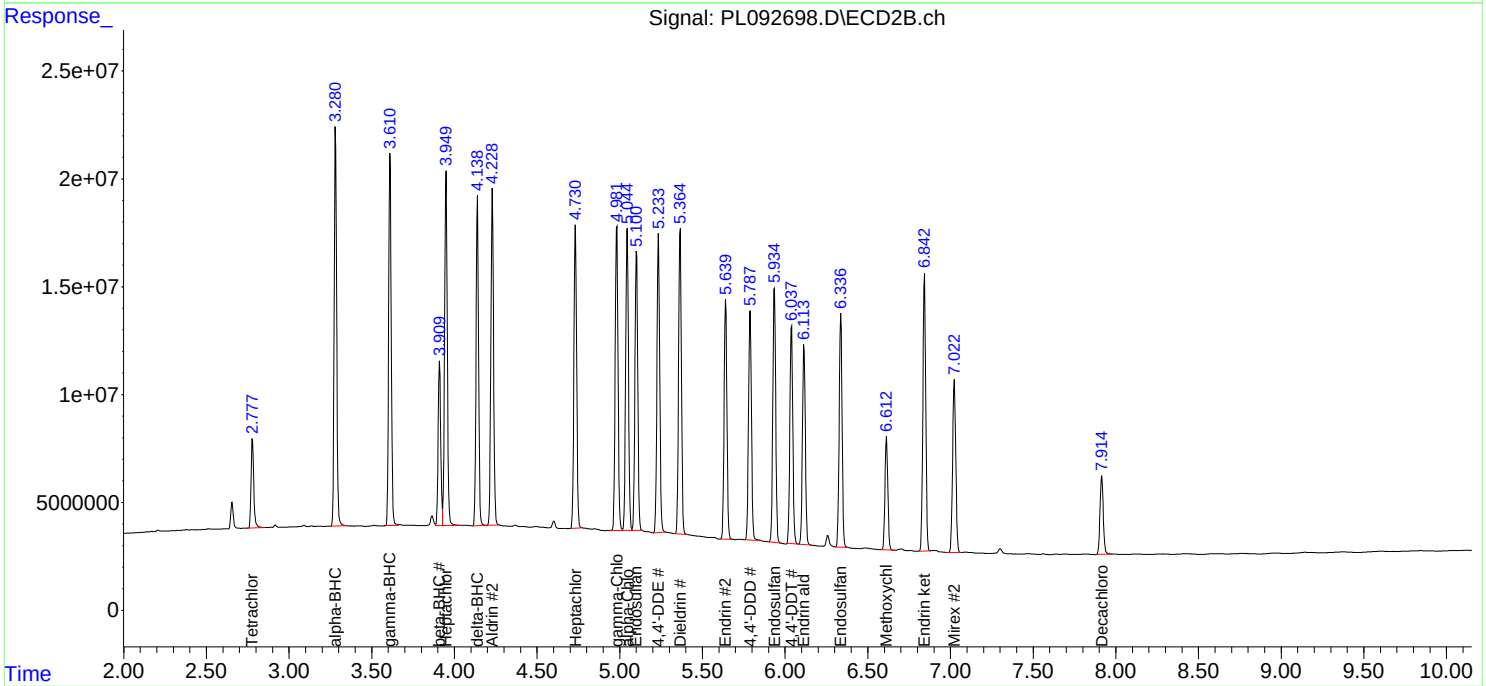
Instrument :
ECD_L
ClientSampleId :
PB164445BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:10:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092701.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 11:37
Operator : AR\AJ
Sample : P4578-06MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-305-BOTMS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:11:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.539	2.779	44424037	49979551	18.131m	18.367
28)	SA Decachlor...	9.051	7.914	30628503	42301014	15.915	15.499
	Target Compounds						
2)	A alpha-BHC	3.996	3.281	153.9E6	186.8E6	45.382	46.808
3)	MA gamma-BHC...	4.327	3.611	142.0E6	178.1E6	43.574m	46.146
4)	MA Heptachlor	4.917	3.950	136.4E6	178.3E6	45.412	47.240
5)	MB Aldrin	5.257	4.230	127.5E6	170.2E6	42.472m	46.493
6)	B beta-BHC	4.526	3.910	65695763	77348574	45.450	46.985
7)	B delta-BHC	4.772	4.138	149.3E6	176.3E6	47.689	45.875m
8)	B Heptachlo...	5.684	4.732	121.3E6	155.0E6	43.929	46.395
9)	A Endosulfan I	6.070	5.101	111.9E6	145.0E6	44.740	47.499
10)	B gamma-Chl...	5.939	4.982	121.4E6	160.6E6	45.615m	47.784
11)	B alpha-Chl...	6.019	5.046	121.1E6	159.5E6	45.742	47.960
12)	B 4,4'-DDE	6.193	5.234	107.4E6	153.9E6	45.323	47.778
13)	MA Dieldrin	6.344	5.366	118.7E6	158.7E6	45.034	47.501
14)	MA Endrin	6.573	5.641	98574086	136.5E6	43.298m	47.200
15)	B Endosulfa...	6.794	5.935	105.7E6	136.5E6	44.354	48.170
16)	A 4,4'-DDD	6.709	5.789	89225698	121.2E6	46.483	48.663
17)	MA 4,4'-DDT	7.023	6.040	96273805	124.3E6	46.515	46.353
18)	B Endrin al...	6.923	6.115	79903787	102.0E6	42.548	44.206
19)	B Endosulfa...	7.158	6.338	97317956	128.2E6	44.840	47.535
20)	A Methoxychlor	7.497	6.615	50054958	65162857	43.908m	45.631
21)	B Endrin ke...	7.642	6.843	109.9E6	145.6E6	45.376	47.439
22)	Mirex	8.116	7.022	85813250	116.3E6	43.303	44.575m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

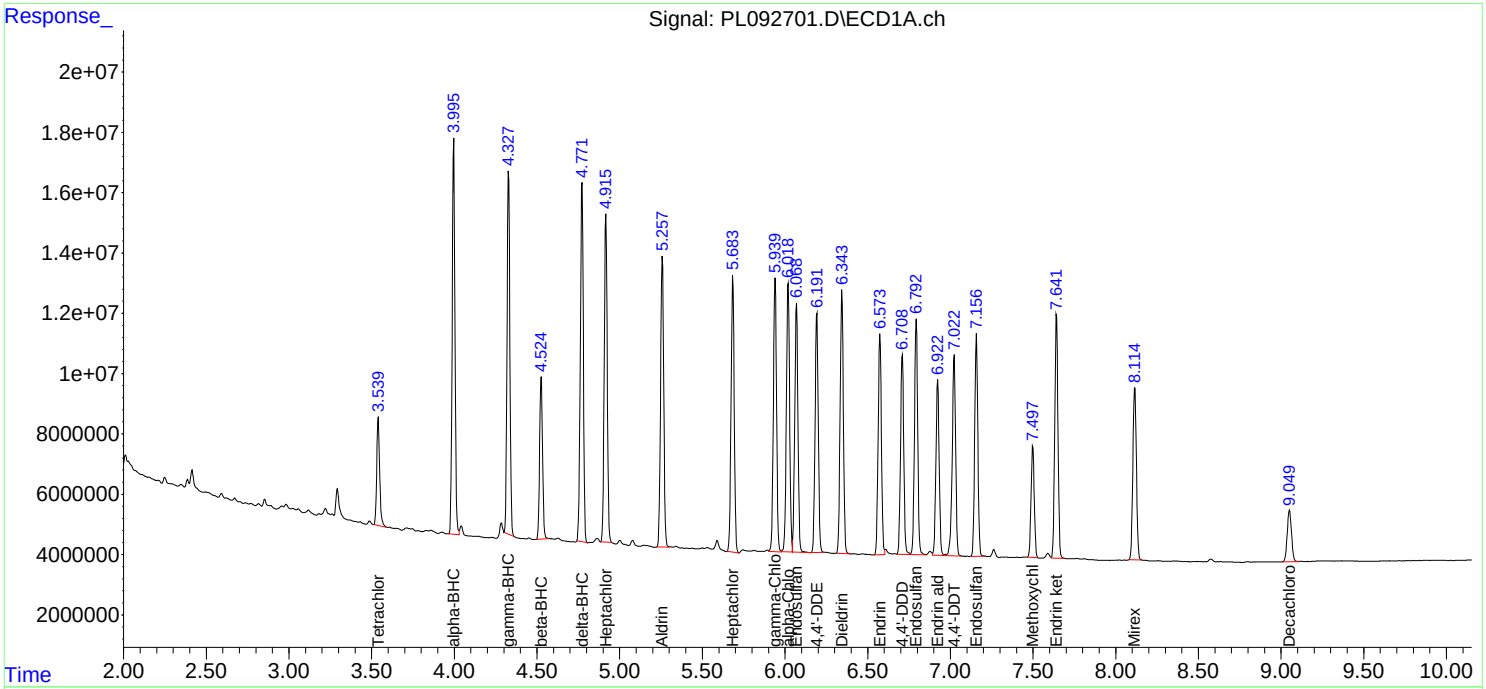
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092701.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 11:37
Operator : AR\AJ
Sample : P4578-06MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

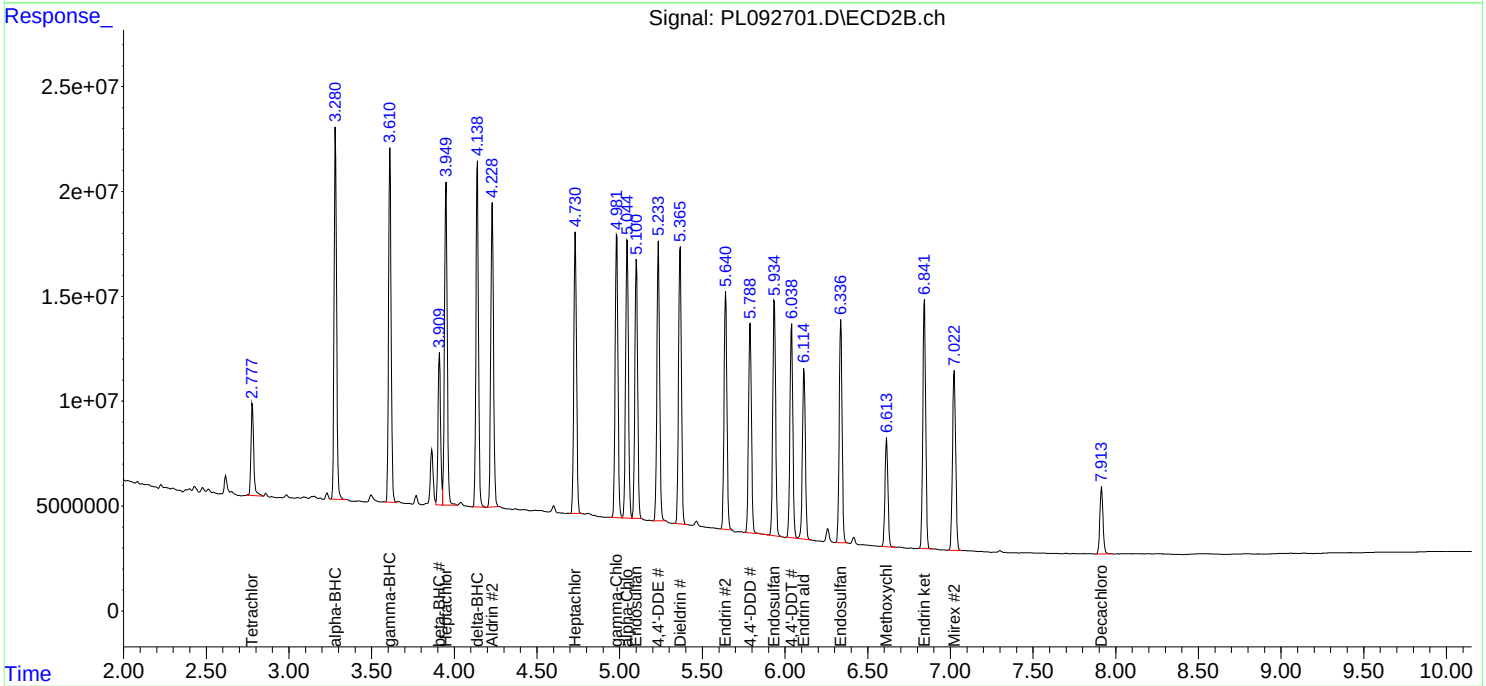
Instrument :
ECD_L
ClientSampleId :
WB-305-BOTMS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:11:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092702.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 11:50
Operator : AR\AJ
Sample : P4578-06MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-305-BOTMSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:12:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.539	2.779	44037963	49951186	17.973m	18.357
28)	SA Decachlor...	9.053	7.915	30303124	43134949	15.746	15.805
	Target Compounds						
2)	A alpha-BHC	3.996	3.281	152.8E6	187.0E6	45.060	46.869
3)	MA gamma-BHC...	4.327	3.611	141.6E6	177.7E6	43.429m	46.043
4)	MA Heptachlor	4.917	3.950	135.5E6	177.1E6	45.112	46.931
5)	MB Aldrin	5.257	4.230	127.1E6	169.7E6	42.358m	46.357
6)	B beta-BHC	4.526	3.910	65623061	77148090	45.399	46.863
7)	B delta-BHC	4.773	4.139	149.3E6	175.2E6	47.698	45.591
8)	B Heptachlo...	5.684	4.732	120.2E6	154.6E6	43.524	46.268
9)	A Endosulfan I	6.070	5.102	111.4E6	143.2E6	44.545	46.892
10)	B gamma-Chl...	5.939	4.982	120.6E6	160.3E6	45.329m	47.681
11)	B alpha-Chl...	6.019	5.046	120.8E6	158.9E6	45.603	47.767
12)	B 4,4'-DDE	6.192	5.235	106.5E6	152.4E6	44.940	47.297
13)	MA Dieldrin	6.345	5.366	118.1E6	157.9E6	44.806	47.278
14)	MA Endrin	6.573	5.641	98565833	135.1E6	43.294m	46.697
15)	B Endosulfa...	6.794	5.936	104.7E6	136.5E6	43.938	48.185
16)	A 4,4'-DDD	6.709	5.789	88486220	120.3E6	46.098	48.304
17)	MA 4,4'-DDT	7.023	6.039	95657230	124.0E6	46.217	46.226
18)	B Endrin al...	6.924	6.115	79416139	102.2E6	42.288	44.305
19)	B Endosulfa...	7.158	6.338	96867761	127.3E6	44.632	47.208
20)	A Methoxychlor	7.498	6.614	49721767	64973570	43.616	45.499
21)	B Endrin ke...	7.643	6.843	109.8E6	146.8E6	45.304	47.848
22)	Mirex	8.116	7.022	85444548	115.0E6	43.117	44.062m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

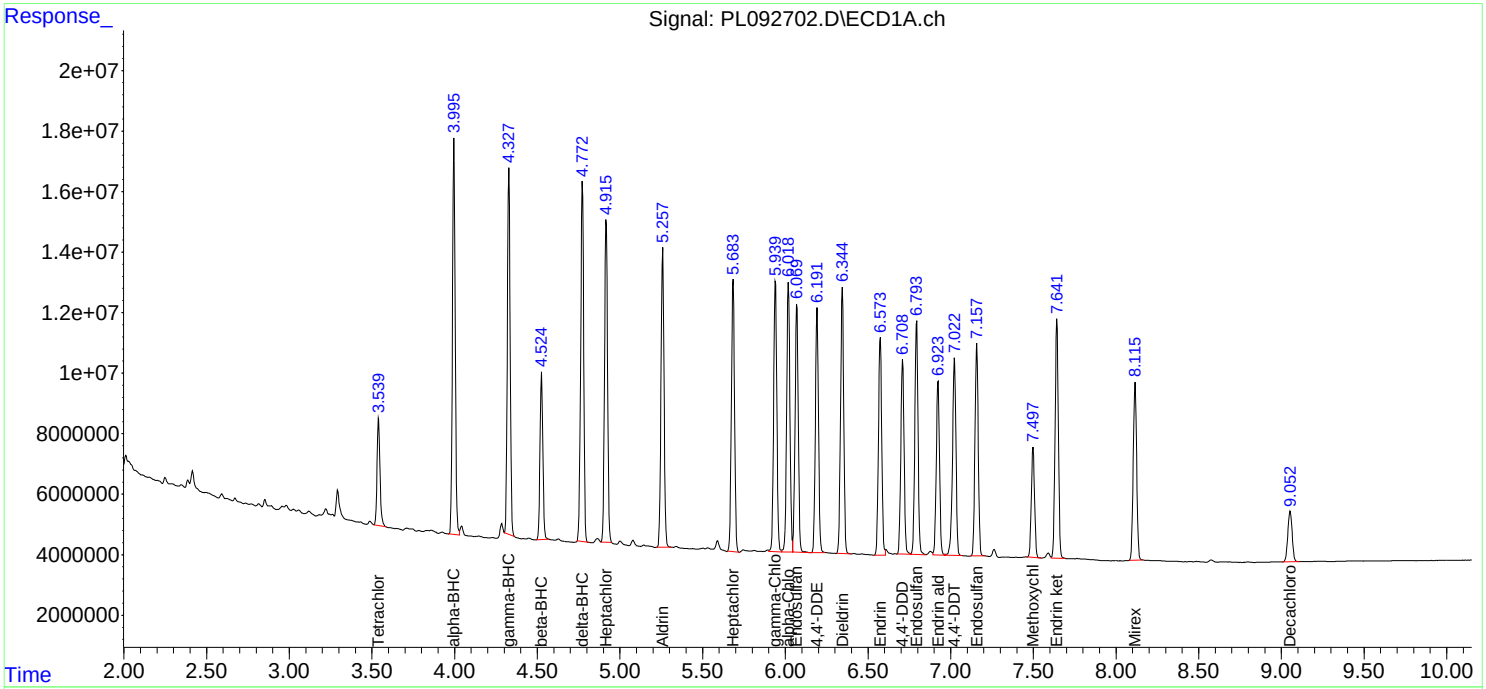
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102924\
Data File : PL092702.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 11:50
Operator : AR\AJ
Sample : P4578-06MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

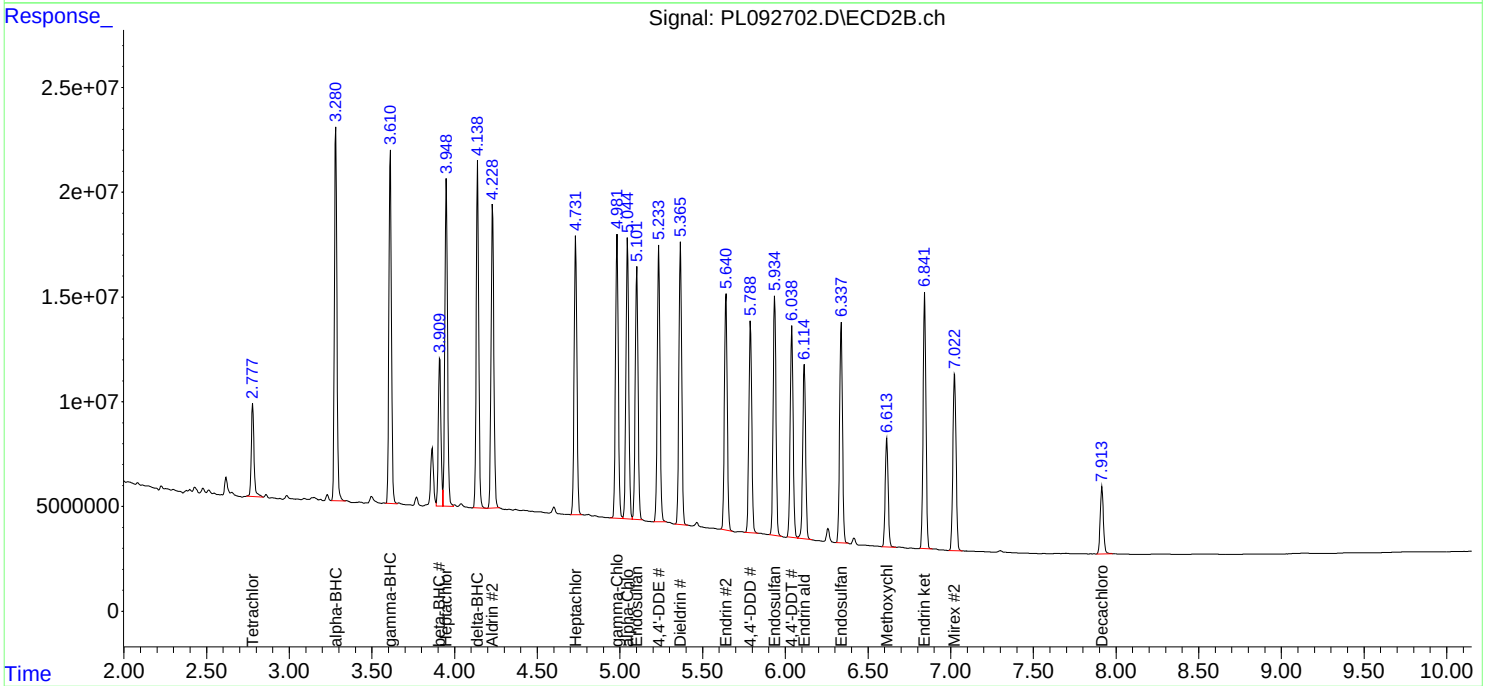
Instrument :
ECD_L
ClientSampleId :
WB-305-BOTMSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/30/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 01:12:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL092653.D	4,4"-DDD	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PEM	PL092653.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PSTDICC005	PL092659.D	delta-BHC	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PSTDICC005	PL092659.D	Heptachlor epoxide	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	Endrin ketone #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PSTDCCC050	PL092675.D	Aldrin	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Dieldrin #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	gamma-BHC (Lindane)	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
I.BLK	PL092690.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:09:28 AM	Ankita	10/29/2024 10:02:09	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL092691.D	Endosulfan II #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	gamma-Chlordane	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Heptachlor epoxide	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Mirex #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL102924	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164445BS	PL092698.D	Endrin	Abdul	10/30/2024 3:35:03 PM	Ankita	11/4/2024 9:19:18	Peak Integrated by Software
P4578-06	PL092700.D	alpha-BHC	Abdul	10/30/2024 3:35:08 PM	Ankita	11/4/2024 9:19:19	Peak Integrated by Software
P4578-06MS	PL092701.D	Aldrin	Abdul	10/30/2024 3:35:12 PM	Ankita	11/4/2024 9:19:21	Peak Integrated by Software
P4578-06MS	PL092701.D	delta-BHC #2	Abdul	10/30/2024 3:35:12 PM	Ankita	11/4/2024 9:19:21	Peak Integrated by Software
P4578-06MS	PL092701.D	Endrin	Abdul	10/30/2024 3:35:12 PM	Ankita	11/4/2024 9:19:21	Peak Integrated by Software
P4578-06MS	PL092701.D	gamma-BHC (Lindane)	Abdul	10/30/2024 3:35:12 PM	Ankita	11/4/2024 9:19:21	Peak Integrated by Software
P4578-06MS	PL092701.D	gamma-Chlordane	Abdul	10/30/2024 3:35:12 PM	Ankita	11/4/2024 9:19:21	Peak Integrated by Software
P4578-06MS	PL092701.D	Methoxychlor	Abdul	10/30/2024 3:35:12 PM	Ankita	11/4/2024 9:19:21	Peak Integrated by Software
P4578-06MS	PL092701.D	Mirex #2	Abdul	10/30/2024 3:35:12 PM	Ankita	11/4/2024 9:19:21	Peak Integrated by Software
P4578-06MS	PL092701.D	Tetrachloro-m-xylene	Abdul	10/30/2024 3:35:12 PM	Ankita	11/4/2024 9:19:21	Peak Integrated by Software
P4578-06MSD	PL092702.D	Aldrin	Abdul	10/30/2024 3:35:16 PM	Ankita	11/4/2024 9:19:23	Peak Integrated by Software
P4578-06MSD	PL092702.D	Endrin	Abdul	10/30/2024 3:35:16 PM	Ankita	11/4/2024 9:19:23	Peak Integrated by Software
P4578-06MSD	PL092702.D	gamma-BHC (Lindane)	Abdul	10/30/2024 3:35:16 PM	Ankita	11/4/2024 9:19:23	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PL102924	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4578-06MSD	PL092702.D	gamma-Chlordane	Abdul	10/30/2024 3:35:16 PM	Ankita	11/4/2024 9:19:23	Peak Integrated by Software
P4578-06MSD	PL092702.D	Mirex #2	Abdul	10/30/2024 3:35:16 PM	Ankita	11/4/2024 9:19:23	Peak Integrated by Software
P4578-06MSD	PL092702.D	Tetrachloro-m-xylene	Abdul	10/30/2024 3:35:16 PM	Ankita	11/4/2024 9:19:23	Peak Integrated by Software
P4578-08	PL092703.D	Tetrachloro-m-xylene	Abdul	10/30/2024 3:35:21 PM	Ankita	11/4/2024 9:19:25	Peak Integrated by Software
I.BLK	PL092710.D	Tetrachloro-m-xylene #2	Abdul	10/30/2024 3:35:50 PM	Ankita	11/4/2024 9:19:34	Peak Integrated by Software
PSTDCCC050	PL092711.D	Aldrin	Abdul	10/30/2024 3:35:54 PM	Ankita	11/4/2024 9:19:35	Peak Integrated by Software
PSTDCCC050	PL092711.D	Endosulfan II #2	Abdul	10/30/2024 3:35:54 PM	Ankita	11/4/2024 9:19:35	Peak Integrated by Software
PSTDCCC050	PL092711.D	Mirex #2	Abdul	10/30/2024 3:35:54 PM	Ankita	11/4/2024 9:19:35	Peak Integrated by Software
I.BLK	PL092722.D	Decachlorobiphenyl	Abdul	10/30/2024 3:37:14 PM	Ankita	11/4/2024 9:20:12	Peak Integrated by Software
I.BLK	PL092722.D	Tetrachloro-m-xylene #2	Abdul	10/30/2024 3:37:14 PM	Ankita	11/4/2024 9:20:12	Peak Integrated by Software
PSTDCCC050	PL092723.D	4,4"-DDE #2	Abdul	10/30/2024 3:37:17 PM	Ankita	11/4/2024 9:20:13	Peak Integrated by Software
PSTDCCC050	PL092723.D	Aldrin	Abdul	10/30/2024 3:37:17 PM	Ankita	11/4/2024 9:20:13	Peak Integrated by Software
PSTDCCC050	PL092723.D	Endosulfan II #2	Abdul	10/30/2024 3:37:17 PM	Ankita	11/4/2024 9:20:13	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PL102924	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL092723.D	Heptachlor	Abdul	10/30/2024 3:37:17 PM	Ankita	11/4/2024 9:20:13	Peak Integrated by Software
PSTDCCC050	PL092723.D	Heptachlor epoxide	Abdul	10/30/2024 3:37:17 PM	Ankita	11/4/2024 9:20:13	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL092651.D	28 Oct 2024 13:41	AR\AJ	Ok
2	I.BLK	PL092652.D	28 Oct 2024 13:55	AR\AJ	Ok
3	PEM	PL092653.D	28 Oct 2024 14:16	AR\AJ	Ok,M
4	RESCHK	PL092654.D	28 Oct 2024 14:29	AR\AJ	Ok
5	PSTDICC100	PL092655.D	28 Oct 2024 14:43	AR\AJ	Ok
6	PSTDICC075	PL092656.D	28 Oct 2024 14:56	AR\AJ	Ok
7	PSTDICC050	PL092657.D	28 Oct 2024 15:09	AR\AJ	Ok
8	PSTDICC025	PL092658.D	28 Oct 2024 15:23	AR\AJ	Ok
9	PSTDICC005	PL092659.D	28 Oct 2024 15:36	AR\AJ	Ok,M
10	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49	AR\AJ	Ok
11	PCHLORICC750	PL092661.D	28 Oct 2024 16:03	AR\AJ	Ok
12	PCHLORICC500	PL092662.D	28 Oct 2024 16:16	AR\AJ	Ok
13	PCHLORICC250	PL092663.D	28 Oct 2024 16:30	AR\AJ	Ok
14	PCHLORICC050	PL092664.D	28 Oct 2024 16:43	AR\AJ	Ok
15	PTOXICC1000	PL092665.D	28 Oct 2024 16:56	AR\AJ	Ok
16	PTOXICC750	PL092666.D	28 Oct 2024 17:10	AR\AJ	Ok
17	PTOXICC500	PL092667.D	28 Oct 2024 17:23	AR\AJ	Ok
18	PTOXICC250	PL092668.D	28 Oct 2024 17:37	AR\AJ	Ok
19	PTOXICC100	PL092669.D	28 Oct 2024 17:50	AR\AJ	Ok,M
20	PSTDICV050	PL092670.D	28 Oct 2024 18:03	AR\AJ	Ok
21	PCHLORICV500	PL092671.D	28 Oct 2024 18:30	AR\AJ	Ok

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PL092672.D	28 Oct 2024 18:57	AR\AJ	Ok
23	I.BLK	PL092673.D	28 Oct 2024 19:24	AR\AJ	Ok
24	PEM	PL092674.D	28 Oct 2024 19:37	AR\AJ	Ok,M
25	PSTDCCC050	PL092675.D	28 Oct 2024 19:51	AR\AJ	Ok,M
26	PB164460BL	PL092676.D	28 Oct 2024 20:04	AR\AJ	Ok,M
27	PB164460BS	PL092677.D	28 Oct 2024 20:17	AR\AJ	Ok,M
28	P4575-01	PL092678.D	28 Oct 2024 20:31	AR\AJ	Ok,M
29	P4566-01	PL092679.D	28 Oct 2024 20:44	AR\AJ	Ok,M
30	P4567-01	PL092680.D	28 Oct 2024 20:57	AR\AJ	Ok,M
31	P4567-05	PL092681.D	28 Oct 2024 21:11	AR\AJ	Ok
32	P4567-09	PL092682.D	28 Oct 2024 21:24	AR\AJ	Ok,M
33	P4574-01	PL092683.D	28 Oct 2024 21:38	AR\AJ	Ok,M
34	P4574-04	PL092684.D	28 Oct 2024 21:51	AR\AJ	Ok,M
35	P4577-01	PL092685.D	28 Oct 2024 22:04	AR\AJ	Ok,M
36	P4561-01	PL092686.D	28 Oct 2024 22:18	AR\AJ	Ok,M
37	P4561-01MS	PL092687.D	28 Oct 2024 22:31	AR\AJ	Ok,M
38	P4561-01MSD	PL092688.D	28 Oct 2024 22:44	AR\AJ	Ok,M
39	P4561-05	PL092689.D	28 Oct 2024 22:58	AR\AJ	Ok,M
40	I.BLK	PL092690.D	28 Oct 2024 23:11	AR\AJ	Ok,M
41	PSTDCCC050	PL092691.D	29 Oct 2024 00:32	AR\AJ	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102924

Review By	Abdul	Review On	10/30/2024 3:38:50 PM		
Supervise By	Ankita	Supervise On	11/4/2024 9:20:27 AM		
SubDirectory	PL102924	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL092692.D	29 Oct 2024 09:35	AR\AJ	Ok
2	I.BLK	PL092693.D	29 Oct 2024 09:48	AR\AJ	Ok
3	PEM	PL092694.D	29 Oct 2024 10:02	AR\AJ	Ok
4	PSTDCCC050	PL092695.D	29 Oct 2024 10:15	AR\AJ	Ok
5	P4545-01RE	PL092696.D	29 Oct 2024 10:30	AR\AJ	Confirms
6	PB164445BL	PL092697.D	29 Oct 2024 10:43	AR\AJ	Ok
7	PB164445BS	PL092698.D	29 Oct 2024 10:57	AR\AJ	Ok,M
8	PB164393TB	PL092699.D	29 Oct 2024 11:10	AR\AJ	Ok
9	P4578-06	PL092700.D	29 Oct 2024 11:23	AR\AJ	Ok,M
10	P4578-06MS	PL092701.D	29 Oct 2024 11:37	AR\AJ	Ok,M
11	P4578-06MSD	PL092702.D	29 Oct 2024 11:50	AR\AJ	Ok,M
12	P4578-08	PL092703.D	29 Oct 2024 12:04	AR\AJ	Ok,M
13	PB164496BL	PL092704.D	29 Oct 2024 12:17	AR\AJ	Ok
14	PB164496BS	PL092705.D	29 Oct 2024 12:30	AR\AJ	Ok,M
15	P4597-01	PL092706.D	29 Oct 2024 12:58	AR\AJ	Ok,M
16	P4597-04	PL092707.D	29 Oct 2024 13:12	AR\AJ	Ok,M
17	P4597-07	PL092708.D	29 Oct 2024 13:26	AR\AJ	Ok,M
18	P4597-10	PL092709.D	29 Oct 2024 13:39	AR\AJ	Ok,M
19	I.BLK	PL092710.D	29 Oct 2024 13:53	AR\AJ	Ok,M
20	PSTDCCC050	PL092711.D	29 Oct 2024 14:07	AR\AJ	Ok,M
21	P4594-01	PL092712.D	29 Oct 2024 14:21	AR\AJ	Ok,M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102924

Review By	Abdul	Review On	10/30/2024 3:38:50 PM		
Supervise By	Ankita	Supervise On	11/4/2024 9:20:27 AM		
SubDirectory	PL102924	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4594-01MS	PL092713.D	29 Oct 2024 14:35	AR\AJ	Ok,M
23	P4594-01MSD	PL092714.D	29 Oct 2024 14:49	AR\AJ	Ok,M
24	P4594-05	PL092715.D	29 Oct 2024 15:02	AR\AJ	Ok,M
25	P4594-09	PL092716.D	29 Oct 2024 15:16	AR\AJ	Ok,M
26	P4594-13	PL092717.D	29 Oct 2024 15:30	AR\AJ	Ok,M
27	P4594-17	PL092718.D	29 Oct 2024 15:44	AR\AJ	Ok,M
28	P4598-01	PL092719.D	29 Oct 2024 15:58	AR\AJ	Ok,M
29	P4598-05	PL092720.D	29 Oct 2024 16:11	AR\AJ	Ok,M
30	P4598-09	PL092721.D	29 Oct 2024 16:25	AR\AJ	Ok,M
31	I.BLK	PL092722.D	29 Oct 2024 16:39	AR\AJ	Ok,M
32	PSTDCCC050	PL092723.D	29 Oct 2024 16:53	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL092651.D	28 Oct 2024 13:41		AR\AJ	Ok
2	I.BLK	I.BLK	PL092652.D	28 Oct 2024 13:55		AR\AJ	Ok
3	PEM	PEM	PL092653.D	28 Oct 2024 14:16		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL092654.D	28 Oct 2024 14:29		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PL092655.D	28 Oct 2024 14:43		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL092656.D	28 Oct 2024 14:56		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL092657.D	28 Oct 2024 15:09		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL092658.D	28 Oct 2024 15:23		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL092659.D	28 Oct 2024 15:36		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL092661.D	28 Oct 2024 16:03		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL092662.D	28 Oct 2024 16:16		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL092663.D	28 Oct 2024 16:30		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL092664.D	28 Oct 2024 16:43		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PL092665.D	28 Oct 2024 16:56		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL092666.D	28 Oct 2024 17:10		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL092667.D	28 Oct 2024 17:23		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL092668.D	28 Oct 2024 17:37		AR\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PL092669.D	28 Oct 2024 17:50		AR\AJ	Ok,M
20	PSTDICV050	ICVPL102824	PL092670.D	28 Oct 2024 18:03		AR\AJ	Ok
21	PCHLORICV500	ICVPL102824CHLOR	PL092671.D	28 Oct 2024 18:30		AR\AJ	Ok
22	PTOXICV500	ICVPL102824TOX	PL092672.D	28 Oct 2024 18:57		AR\AJ	Ok
23	I.BLK	I.BLK	PL092673.D	28 Oct 2024 19:24		AR\AJ	Ok
24	PEM	PEM	PL092674.D	28 Oct 2024 19:37		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL092675.D	28 Oct 2024 19:51		AR\AJ	Ok,M
26	PB164460BL	PB164460BL	PL092676.D	28 Oct 2024 20:04		AR\AJ	Ok,M
27	PB164460BS	PB164460BS	PL092677.D	28 Oct 2024 20:17		AR\AJ	Ok,M
28	P4575-01	PL-02-102424	PL092678.D	28 Oct 2024 20:31		AR\AJ	Ok,M
29	P4566-01	HD-01-102524	PL092679.D	28 Oct 2024 20:44		AR\AJ	Ok,M
30	P4567-01	WC-1	PL092680.D	28 Oct 2024 20:57		AR\AJ	Ok,M
31	P4567-05	WC-2	PL092681.D	28 Oct 2024 21:11		AR\AJ	Ok
32	P4567-09	WC-3	PL092682.D	28 Oct 2024 21:24		AR\AJ	Ok,M
33	P4574-01	GRAVEL-1	PL092683.D	28 Oct 2024 21:38		AR\AJ	Ok,M
34	P4574-04	GRAVEL-2	PL092684.D	28 Oct 2024 21:51		AR\AJ	Ok,M
35	P4577-01	TR-05-102524	PL092685.D	28 Oct 2024 22:04		AR\AJ	Ok,M
36	P4561-01	BP-F-19	PL092686.D	28 Oct 2024 22:18		AR\AJ	Ok,M
37	P4561-01MS	BP-F-19MS	PL092687.D	28 Oct 2024 22:31		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

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Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4561-01MSD	BP-F-19MSD	PL092688.D	28 Oct 2024 22:44		AR\AJ	Ok,M
39	P4561-05	BP-F-18	PL092689.D	28 Oct 2024 22:58		AR\AJ	Ok,M
40	I.BLK	I.BLK	PL092690.D	28 Oct 2024 23:11		AR\AJ	Ok,M
41	PSTDCCC050	PSTDCCC050	PL092691.D	29 Oct 2024 00:32		AR\AJ	Ok,M

M : Manual Integration

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CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL092692.D	29 Oct 2024 09:35		AR\AJ	Ok
2	I.BLK	I.BLK	PL092693.D	29 Oct 2024 09:48		AR\AJ	Ok
3	PEM	PEM	PL092694.D	29 Oct 2024 10:02		AR\AJ	Ok
4	PSTDCCC050	PSTDCCC050	PL092695.D	29 Oct 2024 10:15		AR\AJ	Ok
5	P4545-01RE	VNJ-215RE	PL092696.D	29 Oct 2024 10:30	DCB low in both column	AR\AJ	Confirms
6	PB164445BL	PB164445BL	PL092697.D	29 Oct 2024 10:43		AR\AJ	Ok
7	PB164445BS	PB164445BS	PL092698.D	29 Oct 2024 10:57		AR\AJ	Ok,M
8	PB164393TB	PB164393TB	PL092699.D	29 Oct 2024 11:10		AR\AJ	Ok
9	P4578-06	WB-305-BOT	PL092700.D	29 Oct 2024 11:23		AR\AJ	Ok,M
10	P4578-06MS	WB-305-BOTMS	PL092701.D	29 Oct 2024 11:37		AR\AJ	Ok,M
11	P4578-06MSD	WB-305-BOTMSD	PL092702.D	29 Oct 2024 11:50		AR\AJ	Ok,M
12	P4578-08	WB-305-BOT-1	PL092703.D	29 Oct 2024 12:04		AR\AJ	Ok,M
13	PB164496BL	PB164496BL	PL092704.D	29 Oct 2024 12:17		AR\AJ	Ok
14	PB164496BS	PB164496BS	PL092705.D	29 Oct 2024 12:30		AR\AJ	Ok,M
15	P4597-01	RED-1-1	PL092706.D	29 Oct 2024 12:58		AR\AJ	Ok,M
16	P4597-04	RED-1-2	PL092707.D	29 Oct 2024 13:12		AR\AJ	Ok,M
17	P4597-07	BLUE-2-1	PL092708.D	29 Oct 2024 13:26		AR\AJ	Ok,M
18	P4597-10	BLUE-2-2	PL092709.D	29 Oct 2024 13:39		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102924

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CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	I.BLK	I.BLK	PL092710.D	29 Oct 2024 13:53		AR\AJ	Ok,M
20	PSTDCCC050	PSTDCCC050	PL092711.D	29 Oct 2024 14:07		AR\AJ	Ok,M
21	P4594-01	TP-4	PL092712.D	29 Oct 2024 14:21		AR\AJ	Ok,M
22	P4594-01MS	TP-4MS	PL092713.D	29 Oct 2024 14:35		AR\AJ	Ok,M
23	P4594-01MSD	TP-4MSD	PL092714.D	29 Oct 2024 14:49		AR\AJ	Ok,M
24	P4594-05	BP-F17	PL092715.D	29 Oct 2024 15:02		AR\AJ	Ok,M
25	P4594-09	BP-F16	PL092716.D	29 Oct 2024 15:16		AR\AJ	Ok,M
26	P4594-13	TP-5	PL092717.D	29 Oct 2024 15:30		AR\AJ	Ok,M
27	P4594-17	BP-F15	PL092718.D	29 Oct 2024 15:44		AR\AJ	Ok,M
28	P4598-01	BP-F12	PL092719.D	29 Oct 2024 15:58		AR\AJ	Ok,M
29	P4598-05	BP-F11	PL092720.D	29 Oct 2024 16:11		AR\AJ	Ok,M
30	P4598-09	TP-8	PL092721.D	29 Oct 2024 16:25		AR\AJ	Ok,M
31	I.BLK	I.BLK	PL092722.D	29 Oct 2024 16:39		AR\AJ	Ok,M
32	PSTDCCC050	PSTDCCC050	PL092723.D	29 Oct 2024 16:53		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164393

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 114771

Start Prep Date : 10/25/2024 **Time :** 17:40

End Prep Date : 10/26/2024 **Time :** 10:37

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Tumbler T-1 / T-2 CHECKED,30 RPM. Particle size reduction is not required. p4578-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/26/24 11:45	JP TCLP Room	JP [illegible]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164393

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4452-03	ETGI-285	01	100.03	2000	N/A	N/A	N/A	11.0	1.5	T-1
P4545-02	VNJ-215	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4547-04	BP-F-21	03	100.01	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4547-08	BP-F-20	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4561-04	BP-F-19	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4561-08	BP-F-18	06	100.04	2000	N/A	N/A	N/A	4.0	1.0	T-1
P4567-04	WC-1	07	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4567-08	WC-2	08	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4567-12	WC-3	09	100.04	2000	N/A	N/A	N/A	7.6	1.5	T-1
P4574-03	GRAVEL-1	10	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4574-06	GRAVEL-2	11	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
P4574-08	CONCRETE-1	12	100.02	2000	N/A	N/A	N/A	10.5	1.0	T-2
P4574-10	CONCRETE-2	13	100.02	2000	N/A	N/A	N/A	10.5	1.5	T-2
P4574-12	CONCRETE-3	14	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-2
P4578-06	WB-305-BOT	15	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-2
P4578-08	WB-305-BOT-1	16	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-2
PB164393TB	LEB393	17	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4452-03	ETGI-285	N/A	N/A	N/A	N/A	100	N/A
P4545-02	VNJ-215	N/A	N/A	N/A	N/A	100	N/A
P4547-04	BP-F-21	N/A	N/A	N/A	N/A	100	N/A
P4547-08	BP-F-20	N/A	N/A	N/A	N/A	100	N/A
P4561-04	BP-F-19	N/A	N/A	N/A	N/A	100	N/A
P4561-08	BP-F-18	N/A	N/A	N/A	N/A	100	N/A
P4567-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
P4567-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
P4567-12	WC-3	N/A	N/A	N/A	N/A	100	N/A
P4574-03	GRAVEL-1	N/A	N/A	N/A	N/A	100	N/A
P4574-06	GRAVEL-2	N/A	N/A	N/A	N/A	100	N/A
P4574-08	CONCRETE-1	N/A	N/A	N/A	N/A	100	N/A
P4574-10	CONCRETE-2	N/A	N/A	N/A	N/A	100	N/A
P4574-12	CONCRETE-3	N/A	N/A	N/A	N/A	100	N/A
P4578-06	WB-305-BOT	N/A	N/A	N/A	N/A	100	N/A
P4578-08	WB-305-BOT-1	N/A	N/A	N/A	N/A	100	N/A
PB164393TB	LEB393	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB164393

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4452-03	ETGI-285	5.02	96.5	11.0	4.0	#1	4.93
P4545-02	VNJ-215	5.02	96.5	7.6	2.5	#1	4.93
P4547-04	BP-F-21	5.00	96.5	6.2	2.0	#1	4.93
P4547-08	BP-F-20	5.03	96.5	8.2	3.0	#1	4.93
P4561-04	BP-F-19	5.02	96.5	7.6	2.5	#1	4.93
P4561-08	BP-F-18	5.02	96.5	7.0	2.5	#1	4.93
P4567-04	WC-1	5.03	96.5	9.1	4.0	#1	4.93
P4567-08	WC-2	5.02	96.5	9.5	4.0	#1	4.93
P4567-12	WC-3	5.02	96.5	7.2	3.0	#1	4.93
P4574-03	GRAVEL-1	5.02	96.5	6.0	2.0	#1	4.93
P4574-06	GRAVEL-2	5.03	96.5	5.6	1.5	#1	4.93
P4574-08	CONCRETE-1	5.02	96.5	11.0	4.0	#1	4.93
P4574-10	CONCRETE-2	5.03	96.5	11.0	4.0	#1	4.93
P4574-12	CONCRETE-3	5.02	96.5	11.5	4.5	#1	4.93
P4578-06	WB-305-BOT	5.03	96.5	7.6	2.5	#1	4.93
P4578-08	WB-305-BOT-1	5.02	96.5	8.2	3.0	#1	4.93
PB164393TB	LEB393	N/A	N/A	N/A	N/A	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4545 **WorkList ID :** 184760 **Department :** TCLP Extraction **Date :** 10-25-2024 07:58:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4452-03	ETGI-285	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/18/2024	1311
P4545-02	VNJ-215	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/24/2024	1311
P4547-04	BP-F-21	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/24/2024	1311
P4547-08	BP-F-20	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/24/2024	1311
P4561-04	BP-F-19	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4561-08	BP-F-18	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4567-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4567-08	WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4567-12	WC-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4574-03	GRAVEL-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-06	GRAVEL-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-08	CONCRETE-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-10	CONCRETE-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-12	CONCRETE-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4578-06	WB-305-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K63	10/25/2024	1311
P4578-08	WB-305-BOT-1	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K63	10/25/2024	1311

Date/Time 10/25/24 17:25
Raw Sample Received by: SO (w/ C)
Raw Sample Relinquished by: J.C (SM)

Date/Time 10/25/24 19:30
Raw Sample Received by: J. C (SM)
Raw Sample Relinquished by: SO w/ C

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164445

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/26/2024
Matrix :	Water			**Extraction Start Time :**	12:50
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	10/26/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	17:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP23638
Surrogate	1.0ML	200 PPB	PP23858
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3822
Baked Na2SO4	N/A	EP2551
Hexane	N/A	E3819
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID:	Water bath -01	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/24	RP (Ext. 205)	Y-P-Prep/IPSB.
3:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164445

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/26/2024

Sample ID	Client Sample ID	Test	g /(mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164393TB	PB164393TB	TCLP Pesticide	100	6	RUPESH	rajesh	1			SEP-01
PB164445BL	PBLK445	TCLP Pesticide	1000	6	RUPESH	rajesh	1			2
PB164445BS	PLCS445	TCLP Pesticide	1000	6	RUPESH	rajesh	1			3
P4578-06	WB-305-BOT	TCLP Pesticide	100	6	RUPESH	rajesh	1	A		4
P4578-06MS	WB-305-BOTMS	TCLP Pesticide	100	6	RUPESH	rajesh	1	A		5
P4578-06MSD	WB-305-BOTMSD	TCLP Pesticide	100	6	RUPESH	rajesh	1	A		6
P4578-08	WB-305-BOT-1	TCLP Pesticide	100	6	RUPESH	rajesh	1	A		7

* **Extracts relinquished on the same date as received.**

10/26/24

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164445

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/26/2024
Matrix :	Water			**Extraction Start Time :**	12:50
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	10/26/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	17:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP23638
Surrogate	1.0ML	200 PPB	PP23858
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3822
Baked Na2SO4	N/A	EP2551
Hexane	N/A	E3819
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID:	Water bath -01	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/24	RP (Ext. 205)	Y-P-Prep/IPSB.
3:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164445

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 10/26/2024

Sample ID	Client Sample ID	Test	g /mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164393TB	PB164393TB	TCLP Pesticide	100	6	RUPESH	rajesh	1			SEP-01
PB164445BL	PBLK445	TCLP Pesticide	1000	6	RUPESH	rajesh	1			2
PB164445BS	PLCS445	TCLP Pesticide	1000	6	RUPESH	rajesh	1			3
P4578-06	WB-305-BOT	TCLP Pesticide	100	6	RUPESH	rajesh	1	A		4
P4578-06MS	WB-305-BOTMS	TCLP Pesticide	100	6	RUPESH	rajesh	1	A		5
P4578-06MSD	WB-305-BOTMSD	TCLP Pesticide	100	6	RUPESH	rajesh	1	A		6
P4578-08	WB-305-BOT-1	TCLP Pesticide	100	6	RUPESH	rajesh	1	A		7

* **Extracts relinquished on the same date as received.**

10/26/24

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	**WB-305-SW**	**WATER**			**10/25/24**			**10/25/24**
			PCB	8082A		10/29/24	10/29/24	
P4578-02	**WB-305-SW-1**	**WATER**			**10/25/24**			**10/25/24**
			PCB	8082A		10/29/24	10/29/24	
P4578-03	**WB-305-TOP**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
P4578-04	**WB-305-TOP-1**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
P4578-05	**WB-305-BOT**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP Pesticide	8081B		10/26/24	10/29/24	
P4578-07	**WB-305-BOT-1**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP Pesticide	8081B		10/26/24	10/29/24	

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Hit Summary Sheet
SW-846

SDG No.: P4578 **Order ID:** P4578

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	490 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP068308.D	1	10/29/24 08:50	10/29/24 16:21	PB164493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.51	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.51	ug/L
11141-16-5	Aroclor-1232	0.38	U	0.38	0.51	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.51	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.51	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.51	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.1		30 (10) - 150 (157)	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.5		30 (10) - 150 (173)	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	490 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP068309.D	1	10/29/24 08:50	10/29/24 16:37	PB164493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.51	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.51	ug/L
11141-16-5	Aroclor-1232	0.38	U	0.38	0.51	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.51	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.51	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.51	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.7		30 (10) - 150 (157)	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.7		30 (10) - 150 (173)	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	53.8 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107460.D	1	10/28/24 08:30	10/29/24 00:09	PB164459

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	6.30	U	6.30	31.6	ug/kg
11104-28-2	Aroclor-1221	11.9	U	11.9	31.6	ug/kg
11141-16-5	Aroclor-1232	6.30	U	6.30	31.6	ug/kg
53469-21-9	Aroclor-1242	6.30	U	6.30	31.6	ug/kg
12672-29-6	Aroclor-1248	14.7	U	14.7	31.6	ug/kg
11097-69-1	Aroclor-1254	5.10	U	5.10	31.6	ug/kg
37324-23-5	Aroclor-1262	8.50	U	8.50	31.6	ug/kg
11100-14-4	Aroclor-1268	6.40	U	6.40	31.6	ug/kg
11096-82-5	Aroclor-1260	5.40	U	5.40	31.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.1		30 (32) - 150 (144)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.7		30 (32) - 150 (175)	84%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	58.7 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107461.D	1	10/28/24 08:30	10/29/24 00:27	PB164459

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.80	U	5.80	28.9	ug/kg
11104-28-2	Aroclor-1221	10.9	U	10.9	28.9	ug/kg
11141-16-5	Aroclor-1232	5.80	U	5.80	28.9	ug/kg
53469-21-9	Aroclor-1242	5.80	U	5.80	28.9	ug/kg
12672-29-6	Aroclor-1248	13.4	U	13.4	28.9	ug/kg
11097-69-1	Aroclor-1254	4.60	U	4.60	28.9	ug/kg
37324-23-5	Aroclor-1262	7.80	U	7.80	28.9	ug/kg
11100-14-4	Aroclor-1268	5.80	U	5.80	28.9	ug/kg
11096-82-5	Aroclor-1260	4.90	U	4.90	28.9	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.5		30 (32) - 150 (144)	113%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.6		30 (32) - 150 (175)	93%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	82.1 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107462.D	1	10/28/24 08:30	10/29/24 00:45	PB164459

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.10	U	4.10	20.7	ug/kg
11104-28-2	Aroclor-1221	7.80	U	7.80	20.7	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	20.7	ug/kg
53469-21-9	Aroclor-1242	4.10	U	4.10	20.7	ug/kg
12672-29-6	Aroclor-1248	9.60	U	9.60	20.7	ug/kg
11097-69-1	Aroclor-1254	3.30	U	3.30	20.7	ug/kg
37324-23-5	Aroclor-1262	5.60	U	5.60	20.7	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	20.7	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	20.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.3		30 (32) - 150 (144)	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.9		30 (32) - 150 (175)	89%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	94.4 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107463.D	1	10/28/24 08:30	10/29/24 01:03	PB164459

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.60	U	3.60	18.0	ug/kg
11104-28-2	Aroclor-1221	6.80	U	6.80	18.0	ug/kg
11141-16-5	Aroclor-1232	3.60	U	3.60	18.0	ug/kg
53469-21-9	Aroclor-1242	3.60	U	3.60	18.0	ug/kg
12672-29-6	Aroclor-1248	8.30	U	8.30	18.0	ug/kg
11097-69-1	Aroclor-1254	2.90	U	2.90	18.0	ug/kg
37324-23-5	Aroclor-1262	4.80	U	4.80	18.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	18.0	ug/kg
11096-82-5	Aroclor-1260	3.10	U	3.10	18.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.9		30 (32) - 150 (144)	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.7		30 (32) - 150 (175)	88%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PO107183.D	PIBLK-PO107183.D	Tetrachloro-m-xylene	1	20	22.5	112		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	23.4	117		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	22.1	110		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	22.8	114		70 (60)	130 (140)
I.BLK-PO107440.D	PIBLK-PO107440.D	Tetrachloro-m-xylene	1	20	19.9	100		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	20.5	103		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.5	103		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.4	102		70 (60)	130 (140)
PB164459BL	PB164459BL	Tetrachloro-m-xylene	1	20	21.0	105		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.8	114		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.7	108		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	22.4	112		30 (32)	150 (175)
PB164459BS	PB164459BS	Tetrachloro-m-xylene	1	20	20.6	103		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.1	110		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.0	100		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	21.9	109		30 (32)	150 (175)
P4566-01MS	HD-01-102524MS	Tetrachloro-m-xylene	1	20	16.6	83		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	17.3	87		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.8	94		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	14.8	74		30 (32)	150 (175)
P4566-01MSD	HD-01-102524MSD	Tetrachloro-m-xylene	1	20	16.5	83		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	16.8	84		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	19.0	95		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	14.2	71		30 (32)	150 (175)
I.BLK-PO107455.D	PIBLK-PO107455.D	Tetrachloro-m-xylene	1	20	19.6	98		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.8	94		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.2	101		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	16.9	85		70 (60)	130 (140)
P4578-03	WB-305-TOP	Tetrachloro-m-xylene	1	20	16.2	81		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	16.7	84		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.1	100		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	14.8	74		30 (32)	150 (175)
P4578-04	WB-305-TOP-1	Tetrachloro-m-xylene	1	20	17.4	87		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	18.6	93		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	22.5	113		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	16.2	81		30 (32)	150 (175)
P4578-05	WB-305-BOT	Tetrachloro-m-xylene	1	20	18.9	94		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	17.9	89		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.3	106		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	16.1	80		30 (32)	150 (175)
P4578-07	WB-305-BOT-1	Tetrachloro-m-xylene	1	20	19.2	96		30 (32)	150 (144)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
P4578-07	WB-305-BOT-1	Decachlorobiphenyl	1	20	17.7	88		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.9	105		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	16.1	80		30 (32)	150 (175)
I.BLK-PO107468.D	PIBLK-PO107468.D	Tetrachloro-m-xylene	1	20	19.8	99		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	19.2	96		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.6	103		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	17.5	87		70 (60)	130 (140)
I.BLK-PP067586.D	PIBLK-PP067586.D	Tetrachloro-m-xylene	1	20	21.1	105		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	23.6	118		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	22.1	110		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	23.5	117		70 (60)	130 (140)
I.BLK-PP068303.D	PIBLK-PP068303.D	Tetrachloro-m-xylene	1	20	20.5	103		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	22.0	110		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	17.4	87		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.7	104		70 (60)	130 (140)
PB164493BL	PB164493BL	Tetrachloro-m-xylene	1	20	19.4	97		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	21.8	109		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	18.2	91		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	21.0	105		30 (10)	150 (173)
PB164493BS	PB164493BS	Tetrachloro-m-xylene	1	20	20.7	103		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	22.3	112		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	18.6	93		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	21.5	107		30 (10)	150 (173)
PB164493BSD	PB164493BSD	Tetrachloro-m-xylene	1	20	20.8	104		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	22.3	111		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	18.5	93		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	20.9	105		30 (10)	150 (173)
P4578-01	WB-305-SW	Tetrachloro-m-xylene	1	20	21.1	105		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	20.5	103		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	20.0	100		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	19.5	98		30 (10)	150 (173)
P4578-02	WB-305-SW-1	Tetrachloro-m-xylene	1	20	21.7	108		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	20.7	103		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	19.6	98		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	20.4	102		30 (10)	150 (173)
I.BLK-PP068316.D	PIBLK-PP068316.D	Tetrachloro-m-xylene	1	20	20.1	101		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	22.0	110		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.1	91		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.5	108		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PO107446.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**HD-01-102524MS**											
P4566-01MS	AR1016	171.1	0	151	ug/kg	88				40 (55)	140 (146)	
	AR1260	171.1	0	141	ug/kg	82				40 (45)	140 (144)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PO107447.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**HD-01-102524MSD**											
P4566-01MSD	AR1016	171	0	150	ug/kg	88		0		40 (55)	140 (146)	30 (20)
	AR1260	171	0	130	ug/kg	76		8		40 (45)	140 (144)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PO107442.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164459BS	AR1016	166.6	160	ug/kg	96				40 (71)	140 (120)	
	AR1260	166.6	162	ug/kg	97				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP068305.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164493BS	AR1016	5	4.40	ug/L	88				40 (61)	140 (112)	
	AR1260	5	4.10	ug/L	82				40 (66)	140 (113)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP068306.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164493BSD	AR1016	5	4.30	ug/L	86	2			40 (61)	140 (112)	20 (20)
	AR1260	5	4.00	ug/L	80	2			40 (66)	140 (113)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164459BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab Sample ID: PB164459BL Lab File ID: PO107441.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/28/2024

Date Analyzed (1): 10/28/2024 Date Analyzed (2): 10/28/2024

Time Analyzed (1): 17:58 Time Analyzed (2): 17:58

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB164459BS	PB164459BS	PO107442.D	10/28/2024	10/28/2024
HD-01-102524MS	P4566-01MS	PO107446.D	10/28/2024	10/28/2024
HD-01-102524MSD	P4566-01MSD	PO107447.D	10/28/2024	10/28/2024
WB-305-TOP	P4578-03	PO107460.D	10/29/2024	10/29/2024
WB-305-TOP-1	P4578-04	PO107461.D	10/29/2024	10/29/2024
WB-305-BOT	P4578-05	PO107462.D	10/29/2024	10/29/2024
WB-305-BOT-1	P4578-07	PO107463.D	10/29/2024	10/29/2024

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164493BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab Sample ID: PB164493BL Lab File ID: PP068304.D

Matrix: (soil/water) WATER Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/29/2024

Date Analyzed (1): 10/29/2024 Date Analyzed (2): 10/29/2024

Time Analyzed (1): 15:16 Time Analyzed (2): 15:16

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB164493BS	PB164493BS	PP068305.D	10/29/2024	10/29/2024
PB164493BSD	PB164493BSD	PP068306.D	10/29/2024	10/29/2024
WB-305-SW	P4578-01	PP068308.D	10/29/2024	10/29/2024
WB-305-SW-1	P4578-02	PP068309.D	10/29/2024	10/29/2024

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164459BL	SDG No.:	P4578
Lab Sample ID:	PB164459BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107441.D	1	10/28/24 08:30	10/28/24 17:58	PB164459

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.40	U	3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	2.90	U	2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.7		30 (32) - 150 (144)	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.8		30 (32) - 150 (175)	114%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164493BL	SDG No.:	P4578
Lab Sample ID:	PB164493BL	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP068304.D	1	10/29/24 08:50	10/29/24 15:16	PB164493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.4		30 (10) - 150 (157)	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.8		30 (10) - 150 (173)	109%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/15/24
Client Sample ID:	PIBLK-PO107183.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PO107183.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107183.D	1		10/15/24	po101524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		70 (60) - 130 (140)	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.8		70 (60) - 130 (140)	114%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/28/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/28/24
Client Sample ID:	PIBLK-PO107440.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PO107440.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107440.D	1		10/28/24	po102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.9		70 (60) - 130 (140)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.4		70 (60) - 130 (140)	102%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/28/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/28/24
Client Sample ID:	PIBLK-PO107455.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PO107455.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107455.D	1		10/28/24	po102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		70 (60) - 130 (140)	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.9		70 (60) - 130 (140)	85%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/29/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/29/24
Client Sample ID:	PIBLK-PO107468.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PO107468.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107468.D	1		10/29/24	po102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.8		70 (60) - 130 (140)	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.5		70 (60) - 130 (140)	87%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/08/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/08/24
Client Sample ID:	PIBLK-PP067586.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PP067586.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP067586.D	1		10/08/24	pp100824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.1		70 (60) - 130 (140)	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.5		70 (60) - 130 (140)	117%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/29/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/29/24
Client Sample ID:	PIBLK-PP068303.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PP068303.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP068303.D	1		10/29/24	PP102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.4		70 (60) - 130 (140)	87%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.7		70 (60) - 130 (140)	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/29/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/29/24
Client Sample ID:	PIBLK-PP068316.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PP068316.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP068316.D	1		10/29/24	PP102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.1		70 (60) - 130 (140)	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.5		70 (60) - 130 (140)	108%	SPK: 20

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164459BS	SDG No.:	P4578
Lab Sample ID:	PB164459BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107442.D	1	10/28/24 08:30	10/28/24 18:16	PB164459

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	160		3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	162		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.6		30 (32) - 150 (144)	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.1		30 (32) - 150 (175)	110%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164493BS	SDG No.:	P4578
Lab Sample ID:	PB164493BS	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP068305.D	1	10/29/24 08:50	10/29/24 15:32	PB164493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.40		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	4.10		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.7		30 (10) - 150 (157)	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.3		30 (10) - 150 (173)	112%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164493BSD	SDG No.:	P4578
Lab Sample ID:	PB164493BSD	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP068306.D	1	10/29/24 08:50	10/29/24 15:48	PB164493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.30		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	4.00		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.8		30 (10) - 150 (157)	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.3		30 (10) - 150 (173)	111%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	HD-01-102524MS	SDG No.:	P4578
Lab Sample ID:	P4566-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	97.2 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107446.D	1	10/28/24 08:30	10/28/24 19:28	PB164459

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	151		3.50	17.5	ug/kg
11104-28-2	Aroclor-1221	6.60	U	6.60	17.5	ug/kg
11141-16-5	Aroclor-1232	3.50	U	3.50	17.5	ug/kg
53469-21-9	Aroclor-1242	3.50	U	3.50	17.5	ug/kg
12672-29-6	Aroclor-1248	8.10	U	8.10	17.5	ug/kg
11097-69-1	Aroclor-1254	2.80	U	2.80	17.5	ug/kg
37324-23-5	Aroclor-1262	4.70	U	4.70	17.5	ug/kg
11100-14-4	Aroclor-1268	3.50	U	3.50	17.5	ug/kg
11096-82-5	Aroclor-1260	141		3.00	17.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.8		30 (32) - 150 (144)	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.3		30 (32) - 150 (175)	87%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	HD-01-102524MSD	SDG No.:	P4578
Lab Sample ID:	P4566-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	97.2 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107447.D	1	10/28/24 08:30	10/28/24 19:46	PB164459

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	150		3.50	17.4	ug/kg
11104-28-2	Aroclor-1221	6.60	U	6.60	17.4	ug/kg
11141-16-5	Aroclor-1232	3.50	U	3.50	17.4	ug/kg
53469-21-9	Aroclor-1242	3.50	U	3.50	17.4	ug/kg
12672-29-6	Aroclor-1248	8.10	U	8.10	17.4	ug/kg
11097-69-1	Aroclor-1254	2.80	U	2.80	17.4	ug/kg
37324-23-5	Aroclor-1262	4.70	U	4.70	17.4	ug/kg
11100-14-4	Aroclor-1268	3.50	U	3.50	17.4	ug/kg
11096-82-5	Aroclor-1260	130		3.00	17.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.0		30 (32) - 150 (144)	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.8		30 (32) - 150 (175)	84%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO107184.D RT 750 = PO107185.D

RT 500 = PO107186.D RT 250 = PO107187.D RT 050 = PO107188.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1016-2	(2)	5.54	5.55	5.55	5.54	5.54	5.54	5.44	5.64
Aroclor-1016-3	(3)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Aroclor-1016-4	(4)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1016-5	(5)	6.00	6.00	6.00	6.00	6.00	6.00	5.90	6.10
Aroclor-1260-1	(1)	7.12	7.13	7.13	7.12	7.13	7.13	7.03	7.23
Aroclor-1260-2	(2)	7.38	7.38	7.38	7.38	7.38	7.38	7.28	7.48
Aroclor-1260-3	(3)	7.74	7.74	7.74	7.74	7.74	7.74	7.64	7.84
Aroclor-1260-4	(4)	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
Aroclor-1260-5	(5)	8.28	8.28	8.28	8.28	8.28	8.28	8.18	8.38
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1242-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1242-2	(2)	5.55	5.54	5.54	5.54	5.54	5.54	5.44	5.64
Aroclor-1242-3	(3)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Aroclor-1242-4	(4)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1242-5	(5)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1248-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1248-2	(2)	5.80	5.80	5.80	5.80	5.80	5.80	5.70	5.90
Aroclor-1248-3	(3)	6.00	6.00	6.00	6.00	6.00	6.00	5.90	6.10
Aroclor-1248-4	(4)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1248-5	(5)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1254-1	(1)	6.37	6.37	6.38	6.37	6.38	6.37	6.27	6.47
Aroclor-1254-2	(2)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Aroclor-1254-3	(3)	6.96	6.96	6.96	6.96	6.96	6.96	6.86	7.06
Aroclor-1254-4	(4)	7.24	7.24	7.24	7.24	7.24	7.24	7.14	7.34
Aroclor-1254-5	(5)	7.66	7.66	7.66	7.66	7.66	7.66	7.56	7.76
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1268-1	(1)	8.59	8.59	8.59	8.59	8.59	8.59	8.49	8.69
Aroclor-1268-2	(2)	8.68	8.68	8.68	8.68	8.68	8.68	8.58	8.78
Aroclor-1268-3	(3)	8.91	8.91	8.91	8.91	8.91	8.91	8.81	9.01
Aroclor-1268-4	(4)	9.31	9.31	9.31	9.31	9.31	9.31	9.21	9.41
Aroclor-1268-5	(5)	9.72	9.72	9.72	9.72	9.72	9.72	9.62	9.82

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO107184.D RT 750 = PO107185.D

RT 500 = PO107186.D RT 250 = PO107187.D RT 050 = PO107188.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1016-2	(2)	4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1016-3	(3)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-4	(4)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1016-5	(5)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1260-1	(1)	6.21	6.21	6.21	6.21	6.21	6.21	6.11	6.31
Aroclor-1260-2	(2)	6.39	6.39	6.39	6.39	6.40	6.39	6.29	6.49
Aroclor-1260-3	(3)	6.55	6.55	6.55	6.55	6.55	6.55	6.45	6.65
Aroclor-1260-4	(4)	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aroclor-1260-5	(5)	7.26	7.26	7.26	7.26	7.26	7.26	7.16	7.36
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.65	3.64	3.64	3.64	3.54	3.74
Aroclor-1242-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1242-2	(2)	4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1242-3	(3)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-4	(4)	5.00	5.01	5.00	5.01	5.00	5.00	4.90	5.10
Aroclor-1242-5	(5)	5.53	5.53	5.53	5.53	5.53	5.53	5.43	5.63
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.64	3.65	3.64	3.64	3.54	3.74
Aroclor-1248-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1248-2	(2)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1248-3	(3)	5.00	5.00	5.00	5.00	5.00	5.00	4.90	5.10
Aroclor-1248-4	(4)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1248-5	(5)	5.57	5.57	5.57	5.57	5.57	5.57	5.47	5.67
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.64	3.64	3.64	3.64	3.54	3.74
Aroclor-1254-1	(1)	5.53	5.53	5.53	5.53	5.53	5.53	5.43	5.63
Aroclor-1254-2	(2)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1254-3	(3)	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Aroclor-1254-4	(4)	6.30	6.30	6.30	6.31	6.30	6.30	6.20	6.40
Aroclor-1254-5	(5)	6.72	6.72	6.72	6.72	6.72	6.72	6.62	6.82
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.65	3.64	3.64	3.64	3.65	3.64	3.54	3.74
Aroclor-1268-1	(1)	7.54	7.54	7.54	7.54	7.54	7.54	7.44	7.64
Aroclor-1268-2	(2)	7.61	7.61	7.61	7.61	7.61	7.61	7.51	7.71
Aroclor-1268-3	(3)	7.81	7.81	7.81	7.81	7.81	7.81	7.71	7.91
Aroclor-1268-4	(4)	8.10	8.10	8.10	8.10	8.10	8.10	8.00	8.20
Aroclor-1268-5	(5)	8.39	8.39	8.39	8.39	8.39	8.39	8.29	8.49

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene	3.65	3.64	3.65	3.64	3.65	3.65	3.55	3.75

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PO107184.D **CF 750 =** PO107185.D

CF 500 = PO107186.D **CF 250 =** PO107187.D **CF 050 =** PO107188.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	252081604	261702867	271939076	291118488	272229420	269814291	5
Aroclor-1016-2	(2)	373760062	383028583	397887352	419075308	410673320	396884925	5
Aroclor-1016-3	(3)	234678633	244145249	256575754	276405664	244042480	251169556	6
Aroclor-1016-4	(4)	185622493	193848624	202963902	215081552	165543020	192611918	10
Aroclor-1016-5	(5)	176326470	182141932	191487930	203514892	159796500	182653545	9
Aroclor-1260-1	(1)	238480871	246497651	259155974	277220676	271587560	258588546	6
Aroclor-1260-2	(2)	243402558	251747185	264083512	284216460	272650860	263220115	6
Aroclor-1260-3	(3)	167353086	171560129	181491762	195138068	183182660	179745141	6
Aroclor-1260-4	(4)	162125557	166999933	175289716	187582032	185522120	175503872	6
Aroclor-1260-5	(5)	268686175	273623828	283035894	299271412	297351500	284393762	5
Decachlorobiphenyl		2362750210	2427138920	2496479000	2603827440	2376686800	2453376474	4
Tetrachloro-m-xylene		8902656430	9087809293	9285762860	9548006280	8745262400	9113899453	3
Aroclor-1242-1	(1)	207947063	205572916	222208808	238956456	243522880	223641625	8
Aroclor-1242-2	(2)	302439626	299949616	323550412	342804408	348858880	323520588	7
Aroclor-1242-3	(3)	191912697	193178427	209638152	224306728	225847640	208976729	8
Aroclor-1242-4	(4)	150447174	145338196	162797508	173135964	168308740	160005516	7
Aroclor-1242-5	(5)	141009343	143408436	153689098	164623016	179679780	156481935	10
Decachlorobiphenyl		2339420350	2427742867	2492700840	2551827400	2426410200	2447620331	3
Tetrachloro-m-xylene		8860043620	8651743680	9146784160	9504075440	9174828800	9067495140	4
Aroclor-1248-1	(1)	155913014	164800668	175191332	184609772	188867720	173876501	8
Aroclor-1248-2	(2)	222845576	238202488	253637968	270074056	280366620	253025342	9
Aroclor-1248-3	(3)	231904923	246233752	259706092	274388212	266197800	255686156	7
Aroclor-1248-4	(4)	237210289	246633865	260533272	272872732	271860120	257822056	6
Aroclor-1248-5	(5)	236273499	246591072	260733536	276314120	280304600	260043365	7
Decachlorobiphenyl		2339780580	2371533013	2504089680	2566158680	2396701200	2435652631	4
Tetrachloro-m-xylene		8719403610	9119992693	9358904180	9492784200	8995773400	9137371617	3
Aroclor-1254-1	(1)	246822697	256579683	264992242	286189960	289157060	268748328	7
Aroclor-1254-2	(2)	348120894	361641555	373031238	401237980	402995760	377405485	6
Aroclor-1254-3	(3)	336293322	345653409	355909306	378498460	372630440	357796987	5
Aroclor-1254-4	(4)	213138598	220171503	227187688	242530220	244046960	229414994	6
Aroclor-1254-5	(5)	194609638	201069208	205869028	220139672	216546640	207646837	5
Decachlorobiphenyl		2357746210	2401897693	2508594000	2601578200	2359367400	2445836701	4
Tetrachloro-m-xylene		8883763230	9164627320	9184369060	9508828480	8791509400	9106619498	3
Aroclor-1268-1	(1)	351862425	352413819	364622844	381760528	369380480	364008019	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	313096403	314491445	324862806	339637696	320299560	322477582	3
Aroclor-1268-3	(3)	272236453	272760276	282620036	293538700	275661940	279363481	3
Aroclor-1268-4	(4)	112236308	111261111	114714594	116428084	101458340	111219687	5
Aroclor-1268-5	(5)	836674479	833098204	847063314	864357444	781067560	832452200	4
Decachlorobiphenyl		4074190590	4136234160	4241958160	4399826360	4004084600	4171258774	4
Tetrachloro-m-xylene		9139601460	8935957933	9311606620	9495189880	8951901000	9166851379	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PO107184.D **CF 750 =** PO107185.D

CF 500 = PO107186.D **CF 250 =** PO107187.D **CF 050 =** PO107188.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	98519363	99934743	102532802	106601384	108740020	103265662	4
Aroclor-1016-2	(2)	140533795	142751421	144315942	146877552	130360060	140967754	5
Aroclor-1016-3	(3)	75819146	77111448	78799028	81783348	80215260	78745646	3
Aroclor-1016-4	(4)	61532960	63413097	65607722	69564368	70423600	66108349	6
Aroclor-1016-5	(5)	78878086	80970861	83522668	86940988	80356660	82133853	4
Aroclor-1260-1	(1)	150450531	152030172	155131756	161942364	156218200	155154605	3
Aroclor-1260-2	(2)	173752920	181526657	184104290	189736236	151457920	176115605	8
Aroclor-1260-3	(3)	168454604	170292340	172108108	175991544	151894120	167748143	6
Aroclor-1260-4	(4)	143637024	144895129	147115166	150514212	137242140	144680734	3
Aroclor-1260-5	(5)	340738400	339782780	336796716	340391952	289493480	329440666	7
Decachlorobiphenyl		2730622670	2745732653	2784792900	2852828640	2594005000	2741596373	3
Tetrachloro-m-xylene		3312014480	3338472613	3349065240	3230716080	2862214000	3218496483	6
Aroclor-1242-1	(1)	80390662	80447493	83937762	87266896	86674240	83743411	4
Aroclor-1242-2	(2)	114487494	111266404	117741916	120667112	114031640	115638913	3
Aroclor-1242-3	(3)	61817452	60461905	64396992	66865868	63624080	63433259	4
Aroclor-1242-4	(4)	60582529	60636219	64384594	68045260	66598220	64049364	5
Aroclor-1242-5	(5)	73763103	75675432	77215916	80736528	80226620	77523520	4
Decachlorobiphenyl		2686985320	2764418280	2764436780	2798541920	2665265400	2735929540	2
Tetrachloro-m-xylene		3315724680	3241948653	3341198040	3335574400	2920075400	3230904235	6
Aroclor-1248-1	(1)	60218805	63038185	64879120	66667236	62402400	63441149	4
Aroclor-1248-2	(2)	85173308	89108361	93061950	96541480	93540340	91485088	5
Aroclor-1248-3	(3)	89257070	93226611	97377878	100891904	96212540	95393201	5
Aroclor-1248-4	(4)	105934439	110533117	114760412	117772688	111691080	112138347	4
Aroclor-1248-5	(5)	102828085	105359652	109801380	114217964	119140640	110269544	6
Decachlorobiphenyl		2669365810	2682497173	2791873700	2836714480	2679938000	2732077833	3
Tetrachloro-m-xylene		3278417600	3389239440	3425836480	3362184040	2965722400	3284279992	6
Aroclor-1254-1	(1)	159855276	163854537	165548332	171717704	162964860	164788142	3
Aroclor-1254-2	(2)	138468840	142269335	144546922	151325972	148203140	144962842	3
Aroclor-1254-3	(3)	227061110	231385951	232213406	238575248	218867080	229620559	3
Aroclor-1254-4	(4)	128242906	130249965	131325350	135207044	122091880	129423429	4
Aroclor-1254-5	(5)	191904554	195153152	195378104	201188864	171636600	191052255	6
Decachlorobiphenyl		2726927150	2738190720	2773447120	2836815760	2598739800	2734824110	3
Tetrachloro-m-xylene		3347799560	3397335627	3354246660	3362236280	2930639600	3278451545	6
Aroclor-1268-1	(1)	419191400	409991492	413863584	410849472	368955300	404570250	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	389672996	380096764	383518208	378699872	334345600	373266688	6
Aroclor-1268-3	(3)	345284332	337828173	339535756	338755760	307004380	333681680	5
Aroclor-1268-4	(4)	129107993	127445005	127285362	129260796	113749480	125369727	5
Aroclor-1268-5	(5)	1049237500	1019311260	1017080130	996315476	856840280	987756929	8
Decachlorobiphenyl		4873889790	4739451973	4823511780	4890043960	4430545400	4751488581	4
Tetrachloro-m-xylene		3440286630	3329771373	3416104800	3331345720	2963806400	3296262985	6

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_O **Date(s) Analyzed:** 10/15/2024 10/16/2024

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.57	4.47	4.67	110010000
		2	4.66	4.56	4.76	78836600
		3	4.73	4.63	4.83	234100000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.73	4.63	4.83	195844000
		2	5.26	5.16	5.36	103025000
		3	5.54	5.44	5.64	179001000
		4	5.70	5.60	5.80	90165400
		5	5.80	5.70	5.90	65903200
Aroclor-1262	500	1	7.74	7.64	7.84	245548000
		2	8.28	8.18	8.38	309420000
		3	8.59	8.49	8.69	209196000
		4	8.68	8.58	8.78	163066000
		5	9.32	9.22	9.42	102764000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_O **Date(s) Analyzed:** 10/15/2024 10/16/2024

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.86	3.76	3.96	34895600
		2	3.94	3.84	4.04	26624800
		3	4.02	3.92	4.12	81218600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.02	3.92	4.12	67327000
		2	4.75	4.65	4.85	63205200
		3	4.92	4.82	5.02	34475000
		4	5.00	4.90	5.10	31466000
		5	5.18	5.08	5.28	33083400
Aroclor-1262	500	1	6.76	6.66	6.86	212876000
		2	7.26	7.16	7.36	363332000
		3	7.54	7.44	7.64	137384000
		4	7.61	7.51	7.71	264574000
		5	8.10	8.00	8.20	112833000

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP067587.D RT 750 = PP067588.D

RT 500 = PP067589.D RT 250 = PP067590.D RT 050 = PP067591.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.92	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1016-2	(2)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Aroclor-1016-3	(3)	6.00	6.00	6.01	6.00	6.01	6.00	5.90	6.10
Aroclor-1016-4	(4)	6.10	6.10	6.10	6.10	6.10	6.10	6.00	6.20
Aroclor-1016-5	(5)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1260-1	(1)	7.52	7.52	7.52	7.52	7.52	7.52	7.42	7.62
Aroclor-1260-2	(2)	7.77	7.77	7.78	7.77	7.77	7.77	7.67	7.87
Aroclor-1260-3	(3)	8.13	8.14	8.14	8.14	8.14	8.14	8.04	8.24
Aroclor-1260-4	(4)	8.37	8.37	8.38	8.37	8.37	8.37	8.27	8.47
Aroclor-1260-5	(5)	8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene		4.75	4.75	4.76	4.75	4.76	4.75	4.65	4.85
Aroclor-1242-1	(1)	5.92	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1242-2	(2)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Aroclor-1242-3	(3)	6.01	6.01	6.00	6.01	6.01	6.01	5.91	6.11
Aroclor-1242-4	(4)	6.10	6.10	6.10	6.10	6.10	6.10	6.00	6.20
Aroclor-1242-5	(5)	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene		4.76	4.76	4.75	4.76	4.75	4.75	4.65	4.85
Aroclor-1248-1	(1)	5.92	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1248-2	(2)	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
Aroclor-1248-3	(3)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1248-4	(4)	6.80	6.80	6.80	6.80	6.80	6.80	6.70	6.90
Aroclor-1248-5	(5)	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.66	10.67	10.57	10.77
Tetrachloro-m-xylene		4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1254-1	(1)	6.77	6.77	6.77	6.77	6.77	6.77	6.67	6.87
Aroclor-1254-2	(2)	6.99	6.99	6.99	6.99	6.99	6.99	6.89	7.09
Aroclor-1254-3	(3)	7.36	7.36	7.35	7.36	7.36	7.36	7.26	7.46
Aroclor-1254-4	(4)	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
Aroclor-1254-5	(5)	8.06	8.06	8.06	8.06	8.06	8.06	7.96	8.16
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.66	10.67	10.57	10.77
Tetrachloro-m-xylene		4.76	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1268-1	(1)	9.05	9.04	9.04	9.04	9.04	9.04	8.94	9.14
Aroclor-1268-2	(2)	9.15	9.14	9.14	9.14	9.14	9.14	9.04	9.24
Aroclor-1268-3	(3)	9.40	9.39	9.40	9.39	9.40	9.40	9.30	9.50
Aroclor-1268-4	(4)	9.84	9.84	9.84	9.84	9.84	9.84	9.74	9.94
Aroclor-1268-5	(5)	10.30	10.29	10.29	10.29	10.29	10.29	10.19	10.39

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.67	10.67	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene	4.76	4.75	4.75	4.75	4.75	4.75	4.65	4.85

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP067587.D RT 750 = PP067588.D

RT 500 = PP067589.D RT 250 = PP067590.D RT 050 = PP067591.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1016-2	(2)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1016-3	(3)	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Aroclor-1016-4	(4)	5.40	5.40	5.40	5.40	5.40	5.40	5.30	5.50
Aroclor-1016-5	(5)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Aroclor-1260-1	(1)	6.66	6.66	6.66	6.66	6.66	6.66	6.56	6.76
Aroclor-1260-2	(2)	6.85	6.85	6.85	6.85	6.85	6.85	6.75	6.95
Aroclor-1260-3	(3)	7.01	7.01	7.01	7.01	7.01	7.01	6.91	7.11
Aroclor-1260-4	(4)	7.48	7.48	7.48	7.48	7.48	7.48	7.38	7.58
Aroclor-1260-5	(5)	7.72	7.72	7.72	7.72	7.72	7.72	7.62	7.82
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1242-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1242-2	(2)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1242-3	(3)	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Aroclor-1242-4	(4)	5.45	5.45	5.45	5.44	5.45	5.45	5.35	5.55
Aroclor-1242-5	(5)	5.97	5.98	5.98	5.97	5.98	5.98	5.88	6.08
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1248-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1248-2	(2)	5.40	5.40	5.40	5.40	5.40	5.40	5.30	5.50
Aroclor-1248-3	(3)	5.44	5.45	5.44	5.44	5.45	5.44	5.34	5.54
Aroclor-1248-4	(4)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Aroclor-1248-5	(5)	6.02	6.02	6.02	6.02	6.02	6.02	5.92	6.12
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1254-1	(1)	5.98	5.97	5.98	5.98	5.98	5.98	5.88	6.08
Aroclor-1254-2	(2)	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Aroclor-1254-3	(3)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1254-4	(4)	6.76	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Aroclor-1254-5	(5)	7.18	7.18	7.18	7.18	7.18	7.18	7.08	7.28
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1268-1	(1)	8.01	8.01	8.01	8.01	8.01	8.01	7.91	8.11
Aroclor-1268-2	(2)	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
Aroclor-1268-3	(3)	8.29	8.29	8.29	8.29	8.29	8.29	8.19	8.39
Aroclor-1268-4	(4)	8.60	8.60	8.60	8.60	8.60	8.60	8.50	8.70
Aroclor-1268-5	(5)	8.93	8.93	8.93	8.92	8.93	8.93	8.83	9.03

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene	4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP067587.D **CF 750 =** PP067588.D

CF 500 = PP067589.D **CF 250 =** PP067590.D **CF 050 =** PP067591.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	31263736	32233361	34196172	36221284	31418860	33066683	6
Aroclor-1016-2	(2)	45702590	47619661	49829602	53216480	47485960	48770859	6
Aroclor-1016-3	(3)	29655293	30980703	32521866	34545868	29856000	31511946	6
Aroclor-1016-4	(4)	24305642	24965132	26130902	27480568	25835960	25743641	5
Aroclor-1016-5	(5)	25253642	26507995	28106138	29556500	25910240	27066903	6
Aroclor-1260-1	(1)	48881600	51062627	53497292	60189956	56487000	54023695	8
Aroclor-1260-2	(2)	57303356	59473712	62743556	68896016	67937280	63270784	8
Aroclor-1260-3	(3)	47767972	49860571	52672962	57075820	51866880	51848841	7
Aroclor-1260-4	(4)	55679811	58146343	61152700	66302976	59690240	60194414	7
Aroclor-1260-5	(5)	101142428	103711039	108382514	116162164	109162380	107712105	5
Decachlorobiphenyl		1047572970	1092521333	1163088620	1272493760	1180845600	1151304457	8
Tetrachloro-m-xylene		918389550	937648760	969374660	977965440	824831600	925642002	7
Aroclor-1242-1	(1)	26136486	27020177	28880182	30131840	27517000	27937137	6
Aroclor-1242-2	(2)	37560737	39520053	41823206	43424048	40845460	40634701	5
Aroclor-1242-3	(3)	24775066	25964975	27626992	28013716	28443000	26964750	6
Aroclor-1242-4	(4)	19919938	20877219	22020082	22198916	22236220	21450475	5
Aroclor-1242-5	(5)	22664411	23310707	24494326	25449828	24710200	24125894	5
Decachlorobiphenyl		1049846500	1096431853	1183590260	1273416280	1210794800	1162815939	8
Tetrachloro-m-xylene		918045770	945319107	991838280	988565840	844744200	937702639	6
Aroclor-1248-1	(1)	19592099	21187299	21900336	23649416	20785280	21422886	7
Aroclor-1248-2	(2)	29912773	32262593	34275072	36926580	34706360	33616676	8
Aroclor-1248-3	(3)	33038688	35344895	37623064	40558304	36562360	36625462	8
Aroclor-1248-4	(4)	36925252	39416441	41800322	44728924	39382640	40450716	7
Aroclor-1248-5	(5)	36740691	38953265	40984016	43781648	37845340	39660992	7
Decachlorobiphenyl		1055450820	1109667187	1169649200	1282118000	1302489400	1183874921	9
Tetrachloro-m-xylene		902146960	926581653	953867240	992359080	895156800	934022347	4
Aroclor-1254-1	(1)	40350769	42082559	45284156	48868552	47326420	44782491	8
Aroclor-1254-2	(2)	59814731	62129524	65787698	71625140	71131660	66097751	8
Aroclor-1254-3	(3)	64043672	65831181	69388346	74782692	73217700	69452718	7
Aroclor-1254-4	(4)	45989306	47460167	50157578	54420004	51495700	49904551	7
Aroclor-1254-5	(5)	54192853	57072867	59852552	64108404	61236860	59292707	6
Decachlorobiphenyl		1068499200	1106116080	1182150460	1298012320	1262855400	1183526692	8
Tetrachloro-m-xylene		931363580	935898013	956149560	989159640	878805200	938275199	4
Aroclor-1268-1	(1)	139515419	144470283	150997662	162718796	165540620	152648556	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	125679796	130088461	136577130	145743784	144888120	136595458	6
Aroclor-1268-3	(3)	110668977	116741077	119635012	130534268	127010440	120917955	7
Aroclor-1268-4	(4)	48063749	49890017	52720184	55641072	47784700	50819944	7
Aroclor-1268-5	(5)	348373365	356693093	372169718	389623012	400486540	373469146	6
Decachlorobiphenyl		1758376420	1827520213	1952930880	2093924120	2163079000	1959166127	9
Tetrachloro-m-xylene		908125750	922962547	955684560	986676760	888810200	932451963	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP067587.D **CF 750 =** PP067588.D

CF 500 = PP067589.D **CF 250 =** PP067590.D **CF 050 =** PP067591.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	32214100	33511487	34894776	37855020	36460880	34987253	6
Aroclor-1016-2	(2)	45072170	46943971	48711842	52177748	47937020	48168550	5
Aroclor-1016-3	(3)	25675074	27277663	27567444	28514452	25652840	26937495	5
Aroclor-1016-4	(4)	22207756	23688287	24482426	25758704	24288360	24085107	5
Aroclor-1016-5	(5)	28303958	30184395	30998408	32062244	30500300	30409861	5
Aroclor-1260-1	(1)	51490839	53867885	56846930	62693500	59910740	56961979	8
Aroclor-1260-2	(2)	60685581	63183867	66653346	73175968	69823160	66704384	8
Aroclor-1260-3	(3)	58195863	60818087	64471984	69084640	65935040	63701123	7
Aroclor-1260-4	(4)	51141777	52463477	55669740	60213672	56975040	55292741	7
Aroclor-1260-5	(5)	115751172	117431688	122205526	128041940	128062520	122298569	5
Decachlorobiphenyl		1016699470	1064912133	1114817860	1215156720	1195705800	1121458397	8
Tetrachloro-m-xylene		976302160	1002778080	1038188640	1086259240	948485600	1010402744	5
Aroclor-1242-1	(1)	26643227	27902807	30082486	31864192	28889440	29076430	7
Aroclor-1242-2	(2)	37173910	38324184	40855302	43058560	41326680	40147727	6
Aroclor-1242-3	(3)	21209836	21846417	23389330	23608008	22421520	22495022	5
Aroclor-1242-4	(4)	21894421	22781385	24633780	25302636	24076280	23737700	6
Aroclor-1242-5	(5)	25904963	27452171	28860038	30792124	30238540	28649567	7
Decachlorobiphenyl		1030873660	1074484253	1144199140	1227463640	1208383800	1137080899	7
Tetrachloro-m-xylene		979317100	1008877893	1048426020	1079705600	995407400	1022346803	4
Aroclor-1248-1	(1)	20323070	21892911	22863994	24075660	24163260	22663779	7
Aroclor-1248-2	(2)	29599820	31598663	33173378	36121664	34985540	33095813	8
Aroclor-1248-3	(3)	31098926	33116664	34686272	37576628	35894680	34474634	7
Aroclor-1248-4	(4)	36529837	38774123	40329020	44225180	44921420	40955916	9
Aroclor-1248-5	(5)	34201195	35911461	37616042	40473884	39013140	37443144	7
Decachlorobiphenyl		1032353410	1073137907	1131465640	1215505400	1241215600	1138735591	8
Tetrachloro-m-xylene		952656120	994994613	1000591240	1068188360	991037600	1001493587	4
Aroclor-1254-1	(1)	53478224	54895953	58959138	64085456	64000720	59083898	8
Aroclor-1254-2	(2)	47135286	48672312	52146652	56922440	57444240	52464186	9
Aroclor-1254-3	(3)	76675976	78569371	83205416	89086976	88502520	83208052	7
Aroclor-1254-4	(4)	44235570	45939643	48363680	51938700	50893660	48274251	7
Aroclor-1254-5	(5)	68142947	70671431	73760414	78813244	76368180	73551243	6
Decachlorobiphenyl		1041164600	1082182560	1142537200	1244245720	1270180600	1156062136	9
Tetrachloro-m-xylene		969890570	991360533	1038975520	1064707400	994465600	1011879925	4
Aroclor-1268-1	(1)	146986557	151844596	158019168	168079912	170778780	159141803	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	133073925	137248829	142523422	151222024	151862520	143186144	6
Aroclor-1268-3	(3)	117364027	121504320	126517254	135757020	136405580	127509640	7
Aroclor-1268-4	(4)	51956547	53952379	54797154	61002600	60671520	56476040	7
Aroclor-1268-5	(5)	359344903	364434196	374618632	391618688	400161860	378035656	5
Decachlorobiphenyl		1755186720	1802467867	1889666160	2047579480	2153015200	1929583085	9
Tetrachloro-m-xylene		970169850	991215560	1007059780	1064676080	979052800	1002434814	4

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_P **Date(s) Analyzed:** 10/08/2024 10/08/2024

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.96	4.86	5.06	12809900
		2	5.04	4.94	5.14	9460580
		3	5.12	5.02	5.22	28907800
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	5.12	5.02	5.22	22859800
		2	5.65	5.55	5.75	11783000
		3	5.94	5.84	6.04	22275000
		4	6.10	6.00	6.20	11287400
		5	6.19	6.09	6.29	9120180
Aroclor-1262	500	1	8.37	8.27	8.47	71771400
		2	8.71	8.61	8.81	121580000
		3	9.05	8.95	9.15	88514200
		4	9.14	9.04	9.24	69944800
		5	9.84	9.74	9.94	46791200

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_P **Date(s) Analyzed:** 10/08/2024 10/08/2024

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.27	4.17	4.37	13170200
		2	4.36	4.26	4.46	9961240
		3	4.43	4.33	4.53	31131200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.43	4.33	4.53	24333000
		2	5.18	5.08	5.28	22365000
		3	5.36	5.26	5.46	11943800
		4	5.45	5.35	5.55	11531400
		5	5.62	5.52	5.72	13450300
Aroclor-1262	500	1	7.22	7.12	7.32	78673400
		2	7.48	7.38	7.58	70962000
		3	8.01	7.91	8.11	57099400
		4	8.07	7.97	8.17	100436000
		5	8.60	8.50	8.70	50017800

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 16:10 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.60	5.61	5.51	5.71	0.01
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.06	10.06	9.96	10.16	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 16:10 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.55	6.45	6.65	0.01
Aroclor-1260-4	(4)	7.01	7.02	6.92	7.12	0.01
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.63	8.64	8.54	8.74	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/28/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107435.D **Time Analyzed:** 16:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.519	5.423	5.623	480.930	500.000	-3.8
Aroclor-1016-2	5.542	5.445	5.645	469.040	500.000	-6.2
Aroclor-1016-3	5.604	5.507	5.707	469.220	500.000	-6.2
Aroclor-1016-4	5.701	5.604	5.804	488.600	500.000	-2.3
Aroclor-1016-5	5.996	5.899	6.099	484.120	500.000	-3.2
Aroclor-1260-1	7.123	7.026	7.226	459.280	500.000	-8.1
Aroclor-1260-2	7.379	7.282	7.482	476.130	500.000	-4.8
Aroclor-1260-3	7.741	7.643	7.843	470.430	500.000	-5.9
Aroclor-1260-4	7.965	7.868	8.068	465.450	500.000	-6.9
Aroclor-1260-5	8.277	8.181	8.381	480.940	500.000	-3.8
Decachlorobiphenyl	10.055	9.958	10.158	47.620	50.000	-4.8
Tetrachloro-m-xylene	4.371	4.274	4.474	47.610	50.000	-4.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/28/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107435.D **Time Analyzed:** 16:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.724	4.626	4.826	523.860	500.000	4.8
Aroclor-1016-2	4.743	4.645	4.845	530.430	500.000	6.1
Aroclor-1016-3	4.919	4.821	5.021	508.190	500.000	1.6
Aroclor-1016-4	4.960	4.862	5.062	491.260	500.000	-1.7
Aroclor-1016-5	5.173	5.076	5.276	531.290	500.000	6.3
Aroclor-1260-1	6.204	6.107	6.307	493.890	500.000	-1.2
Aroclor-1260-2	6.390	6.294	6.494	525.730	500.000	5.1
Aroclor-1260-3	6.544	6.448	6.648	507.540	500.000	1.5
Aroclor-1260-4	7.014	6.918	7.118	492.640	500.000	-1.5
Aroclor-1260-5	7.255	7.159	7.359	527.570	500.000	5.5
Decachlorobiphenyl	8.634	8.539	8.739	48.670	50.000	-2.7
Tetrachloro-m-xylene	3.643	3.545	3.745	51.710	50.000	3.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 21:27 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.01
Aroclor-1260-1	(1)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.96	7.97	7.87	8.07	0.01
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.06	10.06	9.96	10.16	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 21:27 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.73	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.55	6.45	6.65	0.01
Aroclor-1260-4	(4)	7.01	7.02	6.92	7.12	0.01
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.63	8.64	8.54	8.74	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/28/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107451.D **Time Analyzed:** 21:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.519	5.423	5.623	419.080	500.000	-16.2
Aroclor-1016-2	5.542	5.445	5.645	408.530	500.000	-18.3
Aroclor-1016-3	5.605	5.507	5.707	396.930	500.000	-20.6
Aroclor-1016-4	5.701	5.604	5.804	414.160	500.000	-17.2
Aroclor-1016-5	5.995	5.899	6.099	444.570	500.000	-11.1
Aroclor-1260-1	7.122	7.026	7.226	416.700	500.000	-16.7
Aroclor-1260-2	7.379	7.282	7.482	413.910	500.000	-17.2
Aroclor-1260-3	7.741	7.643	7.843	409.630	500.000	-18.1
Aroclor-1260-4	7.964	7.868	8.068	421.520	500.000	-15.7
Aroclor-1260-5	8.278	8.181	8.381	434.130	500.000	-13.2
Decachlorobiphenyl	10.055	9.958	10.158	44.130	50.000	-11.7
Tetrachloro-m-xylene	4.371	4.274	4.474	49.810	50.000	-0.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/28/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107451.D **Time Analyzed:** 21:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.725	4.626	4.826	532.630	500.000	6.5
Aroclor-1016-2	4.744	4.645	4.845	543.130	500.000	8.6
Aroclor-1016-3	4.919	4.821	5.021	518.800	500.000	3.8
Aroclor-1016-4	4.961	4.862	5.062	498.430	500.000	-0.3
Aroclor-1016-5	5.174	5.076	5.276	521.590	500.000	4.3
Aroclor-1260-1	6.204	6.107	6.307	468.750	500.000	-6.3
Aroclor-1260-2	6.391	6.294	6.494	491.530	500.000	-1.7
Aroclor-1260-3	6.544	6.448	6.648	461.820	500.000	-7.6
Aroclor-1260-4	7.014	6.918	7.118	430.720	500.000	-13.9
Aroclor-1260-5	7.256	7.159	7.359	448.970	500.000	-10.2
Decachlorobiphenyl	8.634	8.539	8.739	39.290	50.000	-21.4
Tetrachloro-m-xylene	3.644	3.545	3.745	52.350	50.000	4.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/29/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 01:50 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.60	5.61	5.51	5.71	0.01
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.01
Aroclor-1260-1	(1)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.05	10.06	9.96	10.16	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/29/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 01:50 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.55	6.45	6.65	0.01
Aroclor-1260-4	(4)	7.01	7.02	6.92	7.12	0.01
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.63	8.64	8.54	8.74	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/29/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107464.D **Time Analyzed:** 01:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.520	5.423	5.623	472.650	500.000	-5.5
Aroclor-1016-2	5.542	5.445	5.645	463.570	500.000	-7.3
Aroclor-1016-3	5.604	5.507	5.707	458.350	500.000	-8.3
Aroclor-1016-4	5.701	5.604	5.804	474.940	500.000	-5.0
Aroclor-1016-5	5.995	5.899	6.099	476.080	500.000	-4.8
Aroclor-1260-1	7.122	7.026	7.226	444.530	500.000	-11.1
Aroclor-1260-2	7.379	7.282	7.482	452.620	500.000	-9.5
Aroclor-1260-3	7.740	7.643	7.843	456.730	500.000	-8.7
Aroclor-1260-4	7.965	7.868	8.068	469.950	500.000	-6.0
Aroclor-1260-5	8.277	8.181	8.381	472.910	500.000	-5.4
Decachlorobiphenyl	10.054	9.958	10.158	44.950	50.000	-10.1
Tetrachloro-m-xylene	4.370	4.274	4.474	50.210	50.000	0.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/29/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107464.D **Time Analyzed:** 01:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.724	4.626	4.826	537.050	500.000	7.4
Aroclor-1016-2	4.743	4.645	4.845	547.370	500.000	9.5
Aroclor-1016-3	4.919	4.821	5.021	523.250	500.000	4.7
Aroclor-1016-4	4.960	4.862	5.062	504.760	500.000	1.0
Aroclor-1016-5	5.174	5.076	5.276	535.810	500.000	7.2
Aroclor-1260-1	6.204	6.107	6.307	511.330	500.000	2.3
Aroclor-1260-2	6.391	6.294	6.494	537.550	500.000	7.5
Aroclor-1260-3	6.544	6.448	6.648	517.490	500.000	3.5
Aroclor-1260-4	7.014	6.918	7.118	493.460	500.000	-1.3
Aroclor-1260-5	7.255	7.159	7.359	503.490	500.000	0.7
Decachlorobiphenyl	8.634	8.539	8.739	41.710	50.000	-16.6
Tetrachloro-m-xylene	3.643	3.545	3.745	52.750	50.000	5.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/29/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 11:47 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.92	5.92	5.82	6.02	0.01
Aroclor-1016-2	(2)	5.94	5.94	5.84	6.04	0.00
Aroclor-1016-3	(3)	6.00	6.01	5.91	6.11	0.01
Aroclor-1016-4	(4)	6.10	6.10	6.00	6.20	0.00
Aroclor-1016-5	(5)	6.39	6.40	6.30	6.50	0.01
Aroclor-1260-1	(1)	7.52	7.52	7.42	7.62	0.00
Aroclor-1260-2	(2)	7.77	7.78	7.68	7.88	0.01
Aroclor-1260-3	(3)	8.13	8.14	8.04	8.24	0.01
Aroclor-1260-4	(4)	8.37	8.38	8.28	8.48	0.01
Aroclor-1260-5	(5)	8.70	8.71	8.61	8.81	0.01
Tetrachloro-m-xylene		4.75	4.76	4.66	4.86	0.01
Decachlorobiphenyl		10.66	10.67	10.57	10.77	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/29/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 11:47 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.15	5.16	5.06	5.26	0.01
Aroclor-1016-2	(2)	5.17	5.18	5.08	5.28	0.01
Aroclor-1016-3	(3)	5.35	5.36	5.26	5.46	0.01
Aroclor-1016-4	(4)	5.39	5.40	5.30	5.50	0.01
Aroclor-1016-5	(5)	5.61	5.62	5.52	5.72	0.01
Aroclor-1260-1	(1)	6.65	6.66	6.56	6.76	0.01
Aroclor-1260-2	(2)	6.84	6.85	6.75	6.95	0.01
Aroclor-1260-3	(3)	7.00	7.01	6.91	7.11	0.01
Aroclor-1260-4	(4)	7.47	7.48	7.38	7.58	0.01
Aroclor-1260-5	(5)	7.71	7.72	7.62	7.82	0.01
Tetrachloro-m-xylene		4.05	4.05	3.95	4.15	0.00
Decachlorobiphenyl		9.20	9.22	9.12	9.32	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/29/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068299.D **Time Analyzed:** 11:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.915	5.819	6.019	560.040	500.000	12.0
Aroclor-1016-2	5.938	5.842	6.042	551.340	500.000	10.3
Aroclor-1016-3	6.000	5.905	6.105	550.550	500.000	10.1
Aroclor-1016-4	6.099	6.003	6.203	544.740	500.000	8.9
Aroclor-1016-5	6.393	6.298	6.498	532.370	500.000	6.5
Aroclor-1260-1	7.516	7.422	7.622	510.920	500.000	2.2
Aroclor-1260-2	7.769	7.675	7.875	502.770	500.000	0.6
Aroclor-1260-3	8.130	8.037	8.237	518.960	500.000	3.8
Aroclor-1260-4	8.367	8.275	8.475	514.860	500.000	3.0
Aroclor-1260-5	8.704	8.612	8.812	516.390	500.000	3.3
Decachlorobiphenyl	10.657	10.569	10.769	56.100	50.000	12.2
Tetrachloro-m-xylene	4.751	4.655	4.855	56.350	50.000	12.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/29/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068299.D **Time Analyzed:** 11:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.153	5.061	5.261	503.500	500.000	0.7
Aroclor-1016-2	5.173	5.081	5.281	499.880	500.000	0.0
Aroclor-1016-3	5.354	5.262	5.462	524.560	500.000	4.9
Aroclor-1016-4	5.393	5.301	5.501	523.430	500.000	4.7
Aroclor-1016-5	5.612	5.520	5.720	508.770	500.000	1.8
Aroclor-1260-1	6.654	6.564	6.764	493.590	500.000	-1.3
Aroclor-1260-2	6.840	6.750	6.950	495.080	500.000	-1.0
Aroclor-1260-3	6.998	6.908	7.108	493.360	500.000	-1.3
Aroclor-1260-4	7.472	7.383	7.583	496.630	500.000	-0.7
Aroclor-1260-5	7.711	7.622	7.822	495.530	500.000	-0.9
Decachlorobiphenyl	9.202	9.119	9.319	52.510	50.000	5.0
Tetrachloro-m-xylene	4.047	3.952	4.152	50.920	50.000	1.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/29/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 17:47 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.93	5.92	5.82	6.02	-0.01
Aroclor-1016-2	(2)	5.95	5.94	5.84	6.04	-0.01
Aroclor-1016-3	(3)	6.01	6.01	5.91	6.11	0.00
Aroclor-1016-4	(4)	6.11	6.10	6.00	6.20	-0.01
Aroclor-1016-5	(5)	6.40	6.40	6.30	6.50	0.00
Aroclor-1260-1	(1)	7.52	7.52	7.42	7.62	0.00
Aroclor-1260-2	(2)	7.78	7.78	7.68	7.88	0.00
Aroclor-1260-3	(3)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-4	(4)	8.38	8.38	8.28	8.48	0.00
Aroclor-1260-5	(5)	8.71	8.71	8.61	8.81	0.00
Tetrachloro-m-xylene		4.76	4.76	4.66	4.86	0.00
Decachlorobiphenyl		10.67	10.67	10.57	10.77	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 10/29/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 17:47 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-2	(2)	5.18	5.18	5.08	5.28	0.00
Aroclor-1016-3	(3)	5.36	5.36	5.26	5.46	0.00
Aroclor-1016-4	(4)	5.40	5.40	5.30	5.50	0.00
Aroclor-1016-5	(5)	5.62	5.62	5.52	5.72	0.00
Aroclor-1260-1	(1)	6.66	6.66	6.56	6.76	0.00
Aroclor-1260-2	(2)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-3	(3)	7.00	7.01	6.91	7.11	0.01
Aroclor-1260-4	(4)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-5	(5)	7.72	7.72	7.62	7.82	0.00
Tetrachloro-m-xylene		4.05	4.05	3.95	4.15	0.00
Decachlorobiphenyl		9.21	9.22	9.12	9.32	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL05 **Date Analyzed:** 10/29/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068312.D **Time Analyzed:** 17:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.925	5.819	6.019	545.450	500.000	9.1
Aroclor-1016-2	5.946	5.842	6.042	552.100	500.000	10.4
Aroclor-1016-3	6.010	5.905	6.105	536.070	500.000	7.2
Aroclor-1016-4	6.108	6.003	6.203	518.640	500.000	3.7
Aroclor-1016-5	6.402	6.298	6.498	547.610	500.000	9.5
Aroclor-1260-1	7.524	7.422	7.622	509.830	500.000	2.0
Aroclor-1260-2	7.778	7.675	7.875	513.410	500.000	2.7
Aroclor-1260-3	8.139	8.037	8.237	535.650	500.000	7.1
Aroclor-1260-4	8.377	8.275	8.475	524.710	500.000	4.9
Aroclor-1260-5	8.713	8.612	8.812	533.880	500.000	6.8
Decachlorobiphenyl	10.669	10.569	10.769	58.530	50.000	17.1
Tetrachloro-m-xylene	4.761	4.655	4.855	58.210	50.000	16.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL05 **Date Analyzed:** 10/29/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068312.D **Time Analyzed:** 17:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.159	5.061	5.261	517.750	500.000	3.6
Aroclor-1016-2	5.179	5.081	5.281	530.920	500.000	6.2
Aroclor-1016-3	5.359	5.262	5.462	531.030	500.000	6.2
Aroclor-1016-4	5.399	5.301	5.501	530.080	500.000	6.0
Aroclor-1016-5	5.617	5.520	5.720	548.700	500.000	9.7
Aroclor-1260-1	6.660	6.564	6.764	507.760	500.000	1.6
Aroclor-1260-2	6.847	6.750	6.950	513.820	500.000	2.8
Aroclor-1260-3	7.004	6.908	7.108	513.220	500.000	2.6
Aroclor-1260-4	7.478	7.383	7.583	516.080	500.000	3.2
Aroclor-1260-5	7.716	7.622	7.822	529.410	500.000	5.9
Decachlorobiphenyl	9.208	9.119	9.319	58.550	50.000	17.1
Tetrachloro-m-xylene	4.053	3.952	4.152	52.210	50.000	4.4

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_O

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/15/2024 10/15/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	10/15/2024	18:08	PO107183.D	10.06	4.37
AR1660ICC1000	AR1660ICC1000	10/15/2024	18:27	PO107184.D	10.06	4.37
AR1660ICC750	AR1660ICC750	10/15/2024	18:45	PO107185.D	10.06	4.37
AR1660ICC500	AR1660ICC500	10/15/2024	19:03	PO107186.D	10.06	4.37
AR1660ICC250	AR1660ICC250	10/15/2024	19:21	PO107187.D	10.06	4.37
AR1660ICC050	AR1660ICC050	10/15/2024	19:39	PO107188.D	10.06	4.37
AR1221ICC500	AR1221ICC500	10/15/2024	19:57	PO107189.D	10.06	4.37
AR1232ICC500	AR1232ICC500	10/15/2024	20:15	PO107190.D	10.06	4.37
AR1242ICC1000	AR1242ICC1000	10/15/2024	20:34	PO107191.D	10.06	4.37
AR1242ICC750	AR1242ICC750	10/15/2024	20:52	PO107192.D	10.06	4.37
AR1242ICC500	AR1242ICC500	10/15/2024	21:10	PO107193.D	10.06	4.37
AR1242ICC250	AR1242ICC250	10/15/2024	21:28	PO107194.D	10.06	4.37
AR1242ICC050	AR1242ICC050	10/15/2024	21:46	PO107195.D	10.06	4.37
AR1248ICC1000	AR1248ICC1000	10/15/2024	22:04	PO107196.D	10.06	4.37
AR1248ICC750	AR1248ICC750	10/15/2024	22:22	PO107197.D	10.06	4.37
AR1248ICC500	AR1248ICC500	10/15/2024	22:41	PO107198.D	10.06	4.37
AR1248ICC250	AR1248ICC250	10/15/2024	22:59	PO107199.D	10.06	4.37
AR1248ICC050	AR1248ICC050	10/15/2024	23:17	PO107200.D	10.06	4.37
AR1254ICC1000	AR1254ICC1000	10/15/2024	23:35	PO107201.D	10.06	4.37
AR1254ICC750	AR1254ICC750	10/15/2024	23:53	PO107202.D	10.06	4.37
AR1254ICC500	AR1254ICC500	10/16/2024	00:11	PO107203.D	10.06	4.37
AR1254ICC250	AR1254ICC250	10/16/2024	00:29	PO107204.D	10.06	4.37
AR1254ICC050	AR1254ICC050	10/16/2024	00:47	PO107205.D	10.06	4.37
AR1262ICC500	AR1262ICC500	10/16/2024	01:05	PO107206.D	10.06	4.37
AR1268ICC1000	AR1268ICC1000	10/16/2024	01:23	PO107207.D	10.06	4.37
AR1268ICC750	AR1268ICC750	10/16/2024	01:41	PO107208.D	10.06	4.37
AR1268ICC500	AR1268ICC500	10/16/2024	01:59	PO107209.D	10.06	4.37
AR1268ICC250	AR1268ICC250	10/16/2024	02:18	PO107210.D	10.06	4.37
AR1268ICC050	AR1268ICC050	10/16/2024	02:36	PO107211.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/28/2024	16:10	PO107435.D	10.06	4.37
I.BLK	I.BLK	10/28/2024	17:40	PO107440.D	10.06	4.37
PB164459BL	PB164459BL	10/28/2024	17:58	PO107441.D	10.06	4.37
PB164459BS	PB164459BS	10/28/2024	18:16	PO107442.D	10.06	4.37
HD-01-102524MS	P4566-01MS	10/28/2024	19:28	PO107446.D	10.06	4.37
HD-01-102524MSD	P4566-01MSD	10/28/2024	19:46	PO107447.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/28/2024	21:27	PO107451.D	10.06	4.37
I.BLK	I.BLK	10/28/2024	22:39	PO107455.D	10.06	4.37
WB-305-TOP	P4578-03	10/29/2024	00:09	PO107460.D	10.05	4.37
WB-305-TOP-1	P4578-04	10/29/2024	00:27	PO107461.D	10.06	4.37
WB-305-BOT	P4578-05	10/29/2024	00:45	PO107462.D	10.06	4.37
WB-305-BOT-1	P4578-07	10/29/2024	01:03	PO107463.D	10.05	4.37
AR1660CCC500	AR1660CCC500	10/29/2024	01:50	PO107464.D	10.05	4.37

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Analytical Sequence

I.BLK	I.BLK	10/29/2024	03:02	PO107468.D	10.06	4.37
I.BLK	I.BLK	10/08/2024	16:14	PP067586.D	10.67	4.75
AR1660ICC1000	AR1660ICC1000	10/08/2024	16:30	PP067587.D	10.67	4.75
AR1660ICC750	AR1660ICC750	10/08/2024	16:46	PP067588.D	10.67	4.75
AR1660ICC500	AR1660ICC500	10/08/2024	17:02	PP067589.D	10.67	4.76
AR1660ICC250	AR1660ICC250	10/08/2024	17:19	PP067590.D	10.67	4.75
AR1660ICC050	AR1660ICC050	10/08/2024	17:35	PP067591.D	10.67	4.76
AR1221ICC500	AR1221ICC500	10/08/2024	17:51	PP067592.D	10.67	4.75
AR1232ICC500	AR1232ICC500	10/08/2024	18:07	PP067593.D	10.67	4.75
AR1242ICC1000	AR1242ICC1000	10/08/2024	18:23	PP067594.D	10.67	4.76
AR1242ICC750	AR1242ICC750	10/08/2024	18:39	PP067595.D	10.67	4.76
AR1242ICC500	AR1242ICC500	10/08/2024	18:55	PP067596.D	10.67	4.75
AR1242ICC250	AR1242ICC250	10/08/2024	19:12	PP067597.D	10.67	4.76
AR1242ICC050	AR1242ICC050	10/08/2024	19:28	PP067598.D	10.67	4.75
AR1248ICC1000	AR1248ICC1000	10/08/2024	19:44	PP067599.D	10.67	4.75
AR1248ICC750	AR1248ICC750	10/08/2024	20:00	PP067600.D	10.67	4.75
AR1248ICC500	AR1248ICC500	10/08/2024	20:16	PP067601.D	10.67	4.75
AR1248ICC250	AR1248ICC250	10/08/2024	20:32	PP067602.D	10.67	4.75
AR1248ICC050	AR1248ICC050	10/08/2024	20:49	PP067603.D	10.66	4.75
AR1254ICC1000	AR1254ICC1000	10/08/2024	21:05	PP067604.D	10.67	4.76
AR1254ICC750	AR1254ICC750	10/08/2024	21:21	PP067605.D	10.67	4.75
AR1254ICC500	AR1254ICC500	10/08/2024	21:37	PP067606.D	10.67	4.75
AR1254ICC250	AR1254ICC250	10/08/2024	21:53	PP067607.D	10.67	4.75
AR1254ICC050	AR1254ICC050	10/08/2024	22:09	PP067608.D	10.66	4.75
AR1262ICC500	AR1262ICC500	10/08/2024	22:25	PP067609.D	10.66	4.75
AR1268ICC1000	AR1268ICC1000	10/08/2024	22:42	PP067610.D	10.67	4.76
AR1268ICC750	AR1268ICC750	10/08/2024	22:58	PP067611.D	10.67	4.75
AR1268ICC500	AR1268ICC500	10/08/2024	23:14	PP067612.D	10.67	4.75
AR1268ICC250	AR1268ICC250	10/08/2024	23:30	PP067613.D	10.67	4.75
AR1268ICC050	AR1268ICC050	10/08/2024	23:46	PP067614.D	10.67	4.75
AR1660CCC500	AR1660CCC500	10/29/2024	11:47	PP068299.D	10.66	4.75
I.BLK	I.BLK	10/29/2024	13:45	PP068303.D	10.67	4.76
PB164493BL	PB164493BL	10/29/2024	15:16	PP068304.D	10.68	4.76
PB164493BS	PB164493BS	10/29/2024	15:32	PP068305.D	10.67	4.76
PB164493BSD	PB164493BSD	10/29/2024	15:48	PP068306.D	10.67	4.76
WB-305-SW	P4578-01	10/29/2024	16:21	PP068308.D	10.67	4.76
WB-305-SW-1	P4578-02	10/29/2024	16:37	PP068309.D	10.67	4.76
AR1660CCC500	AR1660CCC500	10/29/2024	17:47	PP068312.D	10.67	4.76
I.BLK	I.BLK	10/29/2024	18:53	PP068316.D	10.67	4.76

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_O

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/15/2024 10/15/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	10/15/2024	18:08	PO107183.D	8.64	3.64
AR1660ICC1000	AR1660ICC1000	10/15/2024	18:27	PO107184.D	8.64	3.64
AR1660ICC750	AR1660ICC750	10/15/2024	18:45	PO107185.D	8.64	3.64
AR1660ICC500	AR1660ICC500	10/15/2024	19:03	PO107186.D	8.64	3.65
AR1660ICC250	AR1660ICC250	10/15/2024	19:21	PO107187.D	8.64	3.64
AR1660ICC050	AR1660ICC050	10/15/2024	19:39	PO107188.D	8.64	3.64
AR1221ICC500	AR1221ICC500	10/15/2024	19:57	PO107189.D	8.64	3.64
AR1232ICC500	AR1232ICC500	10/15/2024	20:15	PO107190.D	8.64	3.64
AR1242ICC1000	AR1242ICC1000	10/15/2024	20:34	PO107191.D	8.64	3.64
AR1242ICC750	AR1242ICC750	10/15/2024	20:52	PO107192.D	8.64	3.64
AR1242ICC500	AR1242ICC500	10/15/2024	21:10	PO107193.D	8.64	3.64
AR1242ICC250	AR1242ICC250	10/15/2024	21:28	PO107194.D	8.64	3.65
AR1242ICC050	AR1242ICC050	10/15/2024	21:46	PO107195.D	8.64	3.64
AR1248ICC1000	AR1248ICC1000	10/15/2024	22:04	PO107196.D	8.64	3.64
AR1248ICC750	AR1248ICC750	10/15/2024	22:22	PO107197.D	8.64	3.64
AR1248ICC500	AR1248ICC500	10/15/2024	22:41	PO107198.D	8.64	3.64
AR1248ICC250	AR1248ICC250	10/15/2024	22:59	PO107199.D	8.64	3.64
AR1248ICC050	AR1248ICC050	10/15/2024	23:17	PO107200.D	8.64	3.64
AR1254ICC1000	AR1254ICC1000	10/15/2024	23:35	PO107201.D	8.64	3.65
AR1254ICC750	AR1254ICC750	10/15/2024	23:53	PO107202.D	8.64	3.64
AR1254ICC500	AR1254ICC500	10/16/2024	00:11	PO107203.D	8.64	3.64
AR1254ICC250	AR1254ICC250	10/16/2024	00:29	PO107204.D	8.64	3.64
AR1254ICC050	AR1254ICC050	10/16/2024	00:47	PO107205.D	8.64	3.65
AR1262ICC500	AR1262ICC500	10/16/2024	01:05	PO107206.D	8.64	3.64
AR1268ICC1000	AR1268ICC1000	10/16/2024	01:23	PO107207.D	8.64	3.65
AR1268ICC750	AR1268ICC750	10/16/2024	01:41	PO107208.D	8.64	3.64
AR1268ICC500	AR1268ICC500	10/16/2024	01:59	PO107209.D	8.64	3.65
AR1268ICC250	AR1268ICC250	10/16/2024	02:18	PO107210.D	8.64	3.64
AR1268ICC050	AR1268ICC050	10/16/2024	02:36	PO107211.D	8.64	3.65
AR1660CCC500	AR1660CCC500	10/28/2024	16:10	PO107435.D	8.63	3.64
I.BLK	I.BLK	10/28/2024	17:40	PO107440.D	8.63	3.64
PB164459BL	PB164459BL	10/28/2024	17:58	PO107441.D	8.63	3.64
PB164459BS	PB164459BS	10/28/2024	18:16	PO107442.D	8.64	3.64
HD-01-102524MS	P4566-01MS	10/28/2024	19:28	PO107446.D	8.64	3.65
HD-01-102524MSD	P4566-01MSD	10/28/2024	19:46	PO107447.D	8.64	3.64
AR1660CCC500	AR1660CCC500	10/28/2024	21:27	PO107451.D	8.63	3.64
I.BLK	I.BLK	10/28/2024	22:39	PO107455.D	8.63	3.64
WB-305-TOP	P4578-03	10/29/2024	00:09	PO107460.D	8.63	3.64
WB-305-TOP-1	P4578-04	10/29/2024	00:27	PO107461.D	8.63	3.64
WB-305-BOT	P4578-05	10/29/2024	00:45	PO107462.D	8.63	3.64
WB-305-BOT-1	P4578-07	10/29/2024	01:03	PO107463.D	8.63	3.64
AR1660CCC500	AR1660CCC500	10/29/2024	01:50	PO107464.D	8.63	3.64

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Analytical Sequence

I.BLK	I.BLK	10/29/2024	03:02	PO107468.D	8.63	3.64
I.BLK	I.BLK	10/08/2024	16:14	PP067586.D	9.22	4.05
AR1660ICC1000	AR1660ICC1000	10/08/2024	16:30	PP067587.D	9.22	4.05
AR1660ICC750	AR1660ICC750	10/08/2024	16:46	PP067588.D	9.22	4.05
AR1660ICC500	AR1660ICC500	10/08/2024	17:02	PP067589.D	9.22	4.05
AR1660ICC250	AR1660ICC250	10/08/2024	17:19	PP067590.D	9.22	4.05
AR1660ICC050	AR1660ICC050	10/08/2024	17:35	PP067591.D	9.22	4.05
AR1221ICC500	AR1221ICC500	10/08/2024	17:51	PP067592.D	9.22	4.05
AR1232ICC500	AR1232ICC500	10/08/2024	18:07	PP067593.D	9.22	4.05
AR1242ICC1000	AR1242ICC1000	10/08/2024	18:23	PP067594.D	9.22	4.05
AR1242ICC750	AR1242ICC750	10/08/2024	18:39	PP067595.D	9.22	4.05
AR1242ICC500	AR1242ICC500	10/08/2024	18:55	PP067596.D	9.22	4.05
AR1242ICC250	AR1242ICC250	10/08/2024	19:12	PP067597.D	9.22	4.05
AR1242ICC050	AR1242ICC050	10/08/2024	19:28	PP067598.D	9.22	4.05
AR1248ICC1000	AR1248ICC1000	10/08/2024	19:44	PP067599.D	9.22	4.05
AR1248ICC750	AR1248ICC750	10/08/2024	20:00	PP067600.D	9.22	4.05
AR1248ICC500	AR1248ICC500	10/08/2024	20:16	PP067601.D	9.22	4.05
AR1248ICC250	AR1248ICC250	10/08/2024	20:32	PP067602.D	9.22	4.05
AR1248ICC050	AR1248ICC050	10/08/2024	20:49	PP067603.D	9.22	4.05
AR1254ICC1000	AR1254ICC1000	10/08/2024	21:05	PP067604.D	9.22	4.05
AR1254ICC750	AR1254ICC750	10/08/2024	21:21	PP067605.D	9.22	4.05
AR1254ICC500	AR1254ICC500	10/08/2024	21:37	PP067606.D	9.22	4.05
AR1254ICC250	AR1254ICC250	10/08/2024	21:53	PP067607.D	9.22	4.05
AR1254ICC050	AR1254ICC050	10/08/2024	22:09	PP067608.D	9.22	4.05
AR1262ICC500	AR1262ICC500	10/08/2024	22:25	PP067609.D	9.22	4.05
AR1268ICC1000	AR1268ICC1000	10/08/2024	22:42	PP067610.D	9.22	4.05
AR1268ICC750	AR1268ICC750	10/08/2024	22:58	PP067611.D	9.22	4.05
AR1268ICC500	AR1268ICC500	10/08/2024	23:14	PP067612.D	9.22	4.05
AR1268ICC250	AR1268ICC250	10/08/2024	23:30	PP067613.D	9.22	4.05
AR1268ICC050	AR1268ICC050	10/08/2024	23:46	PP067614.D	9.22	4.05
AR1660CCC500	AR1660CCC500	10/29/2024	11:47	PP068299.D	9.20	4.05
I.BLK	I.BLK	10/29/2024	13:45	PP068303.D	9.21	4.05
PB164493BL	PB164493BL	10/29/2024	15:16	PP068304.D	9.21	4.06
PB164493BS	PB164493BS	10/29/2024	15:32	PP068305.D	9.21	4.05
PB164493BSD	PB164493BSD	10/29/2024	15:48	PP068306.D	9.21	4.05
WB-305-SW	P4578-01	10/29/2024	16:21	PP068308.D	9.21	4.05
WB-305-SW-1	P4578-02	10/29/2024	16:37	PP068309.D	9.21	4.05
AR1660CCC500	AR1660CCC500	10/29/2024	17:47	PP068312.D	9.21	4.05
I.BLK	I.BLK	10/29/2024	18:53	PP068316.D	9.21	4.05

Alliance TECHNICAL GROUP
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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB164459BS

Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab Sample ID: PB164459BS Date(s) Analyzed: 10/28/2024 10/28/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO107442.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.52	5.47	5.57	156		
	2	5.542	5.492	5.592	155		
	3	5.605	5.555	5.655	154		
COLUMN 1	4	5.702	5.652	5.752	161		
	5	5.996	5.946	6.046	154	156	
	1	4.725	4.675	4.775	165		
	2	4.743	4.693	4.793	167		
	3	4.92	4.87	4.97	160		
	4	4.96	4.91	5.01	151		
COLUMN 2	5	5.174	5.124	5.224	157	160	2.53
Aroclor-1260	1	7.124	7.074	7.174	159		
	2	7.38	7.33	7.43	162		
	3	7.741	7.691	7.791	136		
COLUMN 1	4	7.965	7.915	8.015	147		
	5	8.279	8.229	8.329	140	149	
	1	6.204	6.154	6.254	166		
	2	6.391	6.341	6.441	176		
	3	6.544	6.494	6.594	170		
	4	7.015	6.965	7.065	145		
COLUMN 2	5	7.255	7.205	7.305	154	162	8.36

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

HD-01-102524MS

Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab Sample ID: P4566-01MS Date(s) Analyzed: 10/28/2024 10/28/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO107446.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.52	5.47	5.57	145		
	2	5.542	5.492	5.592	130		
	3	5.604	5.554	5.654	131		
COLUMN 1	4	5.702	5.652	5.752	150		
	5	5.995	5.945	6.045	161	143	
	1	4.725	4.675	4.775	161		
	2	4.744	4.694	4.794	155		
	3	4.919	4.869	4.969	159		
	4	4.961	4.911	5.011	155		
COLUMN 2	5	5.173	5.123	5.223	123	151	5.44
Aroclor-1260	1	7.123	7.073	7.173	138		
	2	7.38	7.33	7.43	152		
	3	7.742	7.692	7.792	125		
COLUMN 1	4	7.966	7.916	8.016	145		
	5	8.279	8.229	8.329	145	141	
	1	6.204	6.154	6.254	137		
	2	6.391	6.341	6.441	142		
	3	6.544	6.494	6.594	130		
	4	7.015	6.965	7.065	109		
COLUMN 2	5	7.255	7.205	7.305	117	127	10.45

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

HD-01-102524MSD

Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab Sample ID: P4566-01MSD Date(s) Analyzed: 10/28/2024 10/28/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO107447.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.521	5.471	5.571	139		
	2	5.543	5.493	5.593	126		
	3	5.605	5.555	5.655	129		
COLUMN 1	4	5.702	5.652	5.752	144		
	5	5.995	5.945	6.045	155	139	
	1	4.725	4.675	4.775	161		
	2	4.744	4.694	4.794	154		
	3	4.919	4.869	4.969	157		
	4	4.961	4.911	5.011	152		
COLUMN 2	5	5.173	5.123	5.223	124	150	7.61
Aroclor-1260	1	7.124	7.074	7.174	130		
	2	7.38	7.33	7.43	142		
	3	7.742	7.692	7.792	112		
COLUMN 1	4	7.966	7.916	8.016	132		
	5	8.28	8.23	8.33	135	130	
	1	6.205	6.155	6.255	132		
	2	6.391	6.341	6.441	141		
	3	6.545	6.495	6.595	125		
	4	7.015	6.965	7.065	106		
COLUMN 2	5	7.256	7.206	7.306	112	123	5.53

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB164493BS

Contract: PORT06
Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
Lab Sample ID: PB164493BS Date(s) Analyzed: 10/29/2024 10/29/2024
Instrument ID (1): ECD_P Instrument ID (2): ECD_P
GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PP068305.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.924	5.874	5.974	4.27		
	2	5.946	5.896	5.996	4.43		
	3	6.01	5.96	6.06	4.29		
COLUMN 1	4	6.108	6.058	6.158	4.75		
	5	6.402	6.352	6.452	4.15	4.40	
	1	5.16	5.11	5.21	3.85		
	2	5.179	5.129	5.229	3.93		
	3	5.36	5.31	5.41	3.92		
	4	5.399	5.349	5.449	3.91		
COLUMN 2	5	5.618	5.568	5.668	3.78	3.90	12.05
Aroclor-1260	1	7.525	7.475	7.575	4.40		
	2	7.778	7.728	7.828	4.29		
	3	8.139	8.089	8.189	3.87		
COLUMN 1	4	8.376	8.326	8.426	4.00		
	5	8.715	8.665	8.765	3.87	4.10	
	1	6.66	6.61	6.71	4.04		
	2	6.847	6.797	6.897	4.05		
	3	7.004	6.954	7.054	4.09		
	4	7.478	7.428	7.528	3.66		
COLUMN 2	5	7.717	7.667	7.767	3.65	3.90	5

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB164493BSD

Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab Sample ID: PB164493BSD Date(s) Analyzed: 10/29/2024 10/29/2024

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP068306.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.924	5.874	5.974	3.93		
	2	5.943	5.893	5.993	4.94		
	3	6.009	5.959	6.059	4.21		
COLUMN 1	4	6.108	6.058	6.158	4.30		
	5	6.4	6.35	6.45	4.30	4.30	
	1	5.159	5.109	5.209	3.82		
	2	5.179	5.129	5.229	3.89		
	3	5.359	5.309	5.409	3.88		
	4	5.399	5.349	5.449	3.90		
COLUMN 2	5	5.617	5.567	5.667	3.76	3.90	9.76
Aroclor-1260	1	7.524	7.474	7.574	4.26		
	2	7.777	7.727	7.827	4.19		
	3	8.138	8.088	8.188	3.75		
COLUMN 1	4	8.376	8.326	8.426	4.00		
	5	8.714	8.664	8.764	3.79	4.00	
	1	6.659	6.609	6.709	4.02		
	2	6.846	6.796	6.896	4.01		
	3	7.003	6.953	7.053	4.04		
	4	7.478	7.428	7.528	3.56		
COLUMN 2	5	7.716	7.666	7.766	3.57	3.80	5.13

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102924\
Data File : PP068308.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 16:21
Operator : YP\AJ
Sample : P4578-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
WB-305-SW

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 00:55:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.760	4.053	19491774	20245440	21.058	20.037
2)	SA Decachlor...	10.670	9.209	23620215	21905702	20.516	19.533
	Target Compounds						

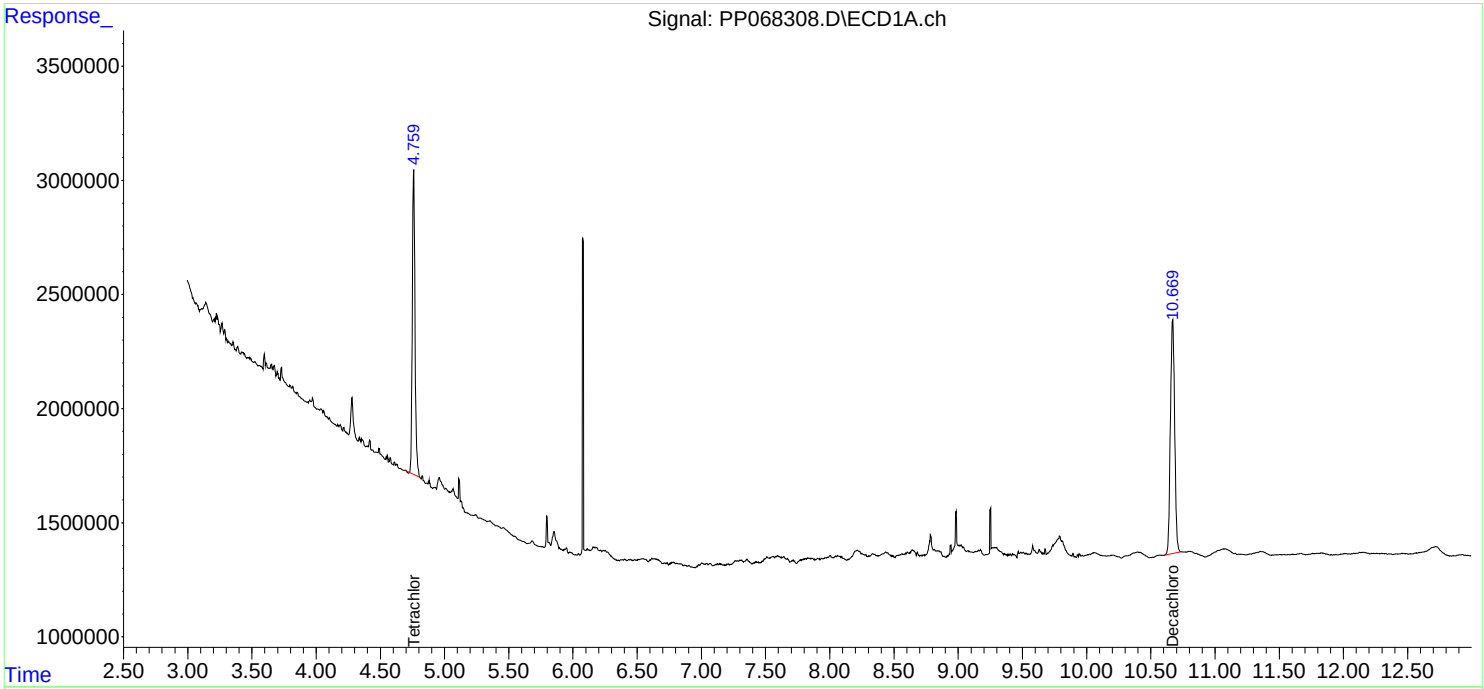
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

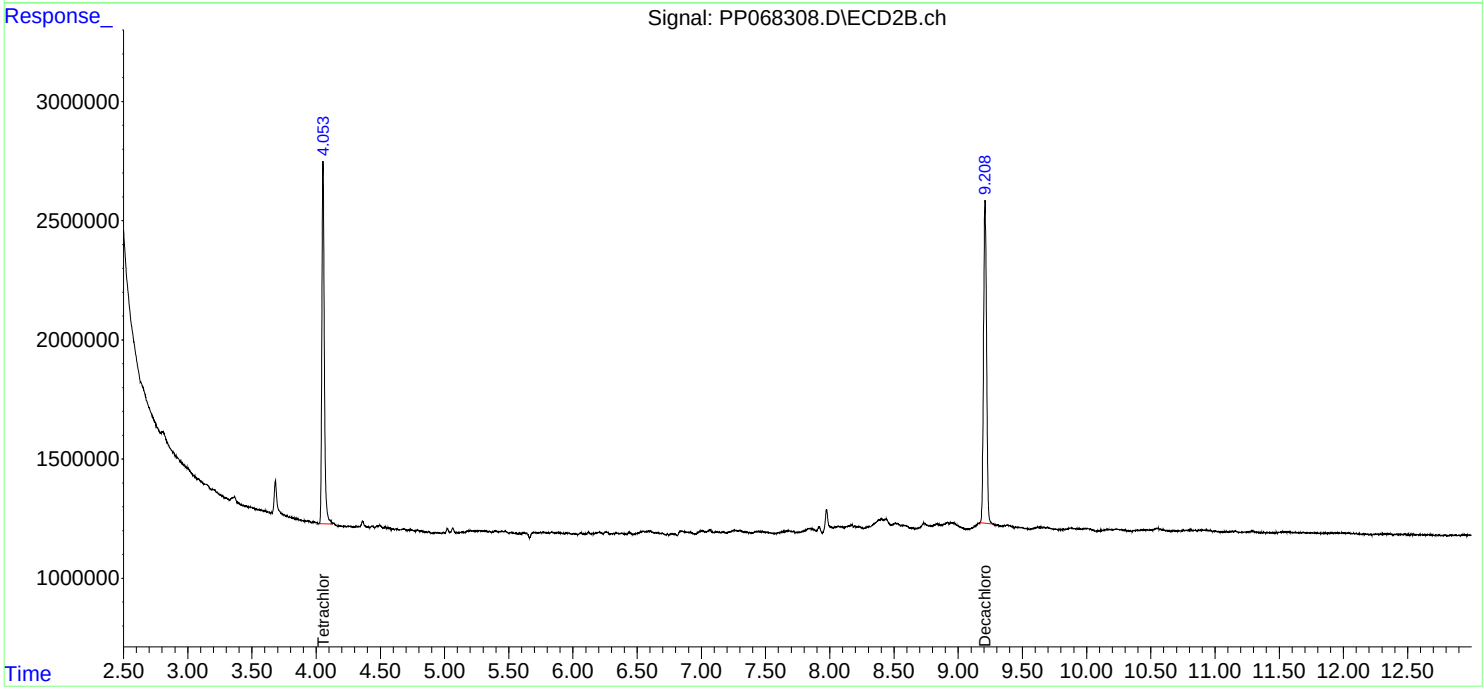
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102924\
Data File : PP068308.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 16:21
Operator : YP\AJ
Sample : P4578-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

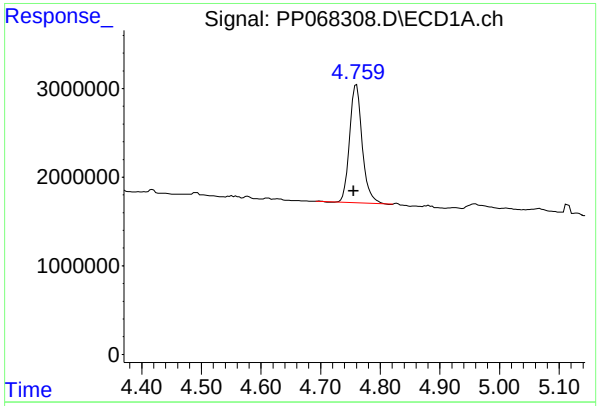
Instrument :
ECD_P
ClientSampleId :
WB-305-SW

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 00:55:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



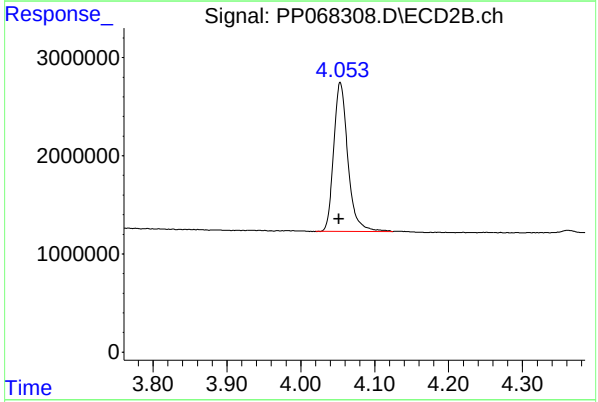




#1 Tetrachloro-m-xylene

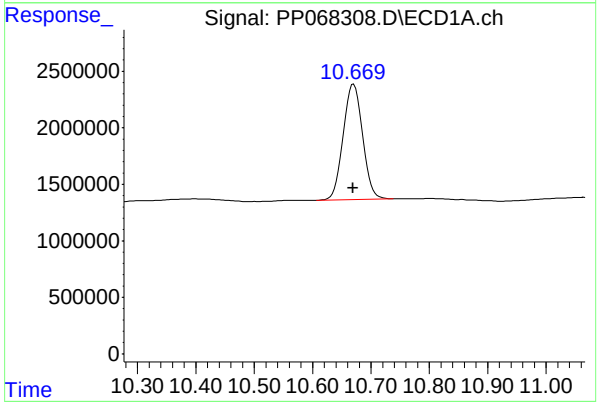
R.T.: 4.760 min
Delta R.T.: 0.005 min
Response: 19491774
Conc: 21.06 ng/ml

Instrument :
ECD_P
ClientSampleId :
WB-305-SW



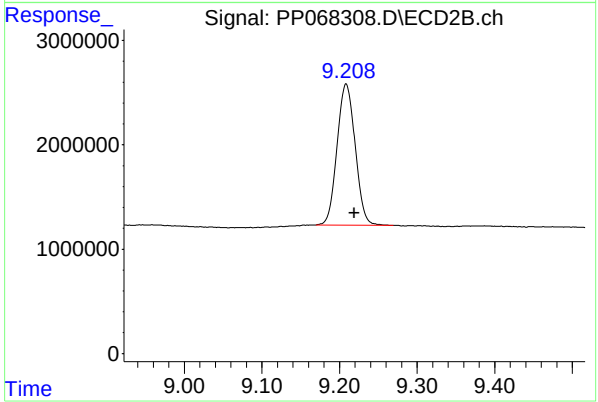
#1 Tetrachloro-m-xylene

R.T.: 4.053 min
Delta R.T.: 0.002 min
Response: 20245440
Conc: 20.04 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.670 min
Delta R.T.: 0.001 min
Response: 23620215
Conc: 20.52 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.209 min
Delta R.T.: -0.010 min
Response: 21905702
Conc: 19.53 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102924\
Data File : PP068309.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 16:37
Operator : YP\AJ
Sample : P4578-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
WB-305-SW-1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 00:56:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.759	4.053	20045493	19756036	21.656	19.553
2)	SA Decachlor...	10.668	9.207	23781400	22833348	20.656	20.360
	Target Compounds						

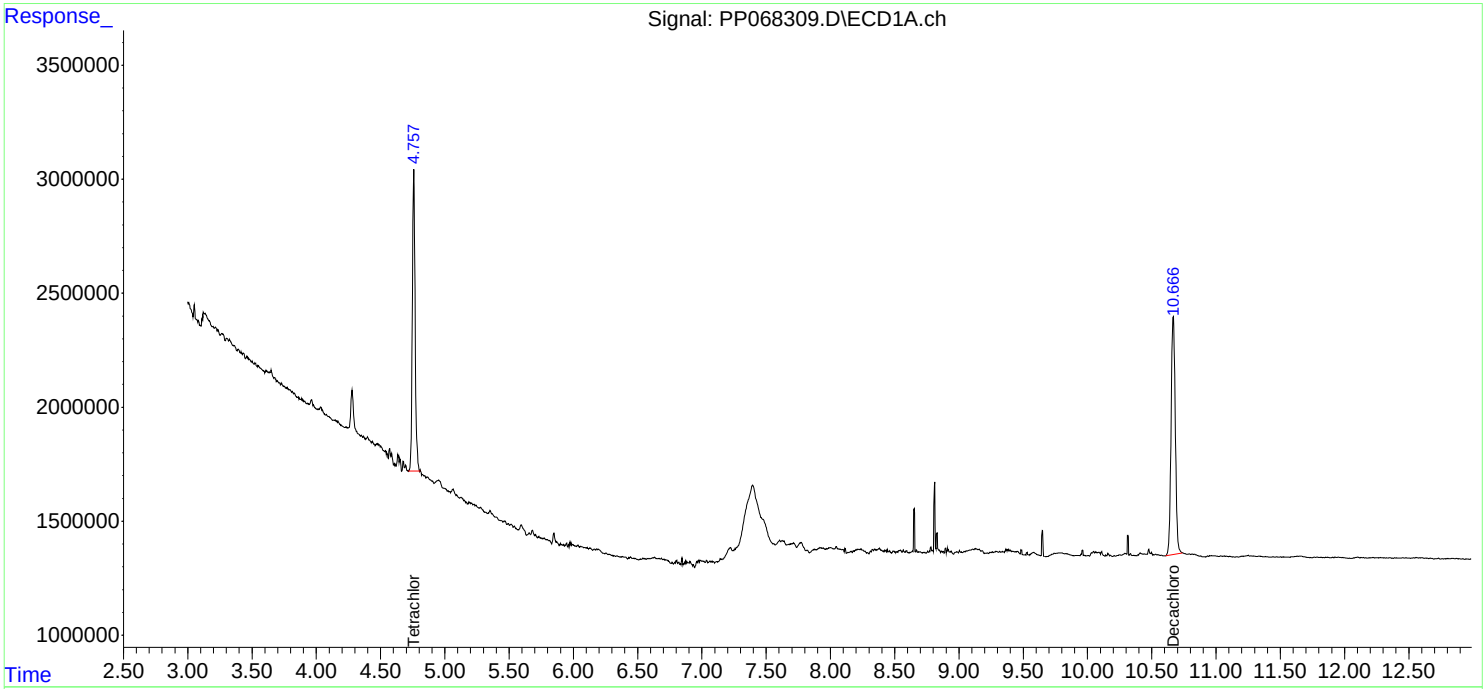
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

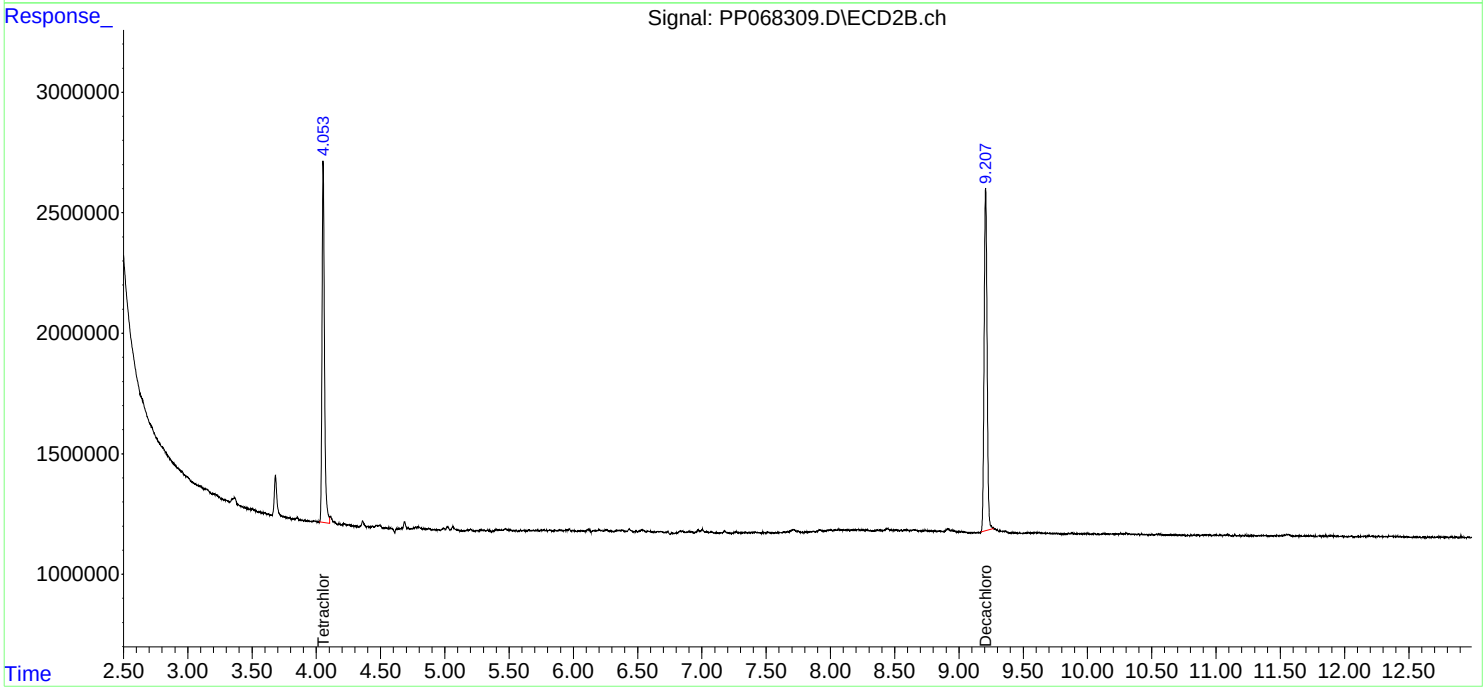
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102924\
Data File : PP068309.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 16:37
Operator : YP\AJ
Sample : P4578-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
WB-305-SW-1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 30 00:56:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
Response via : Initial Calibration
Integrator: ChemStation

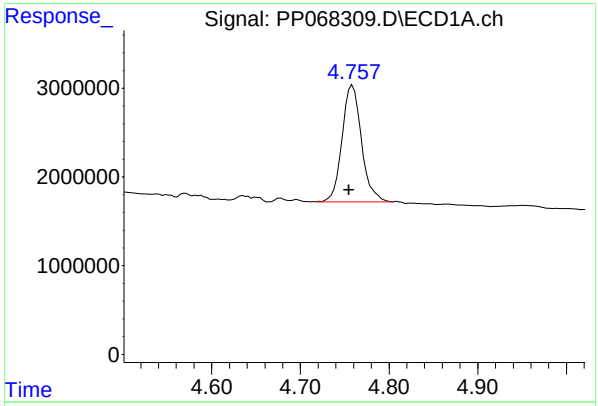
Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





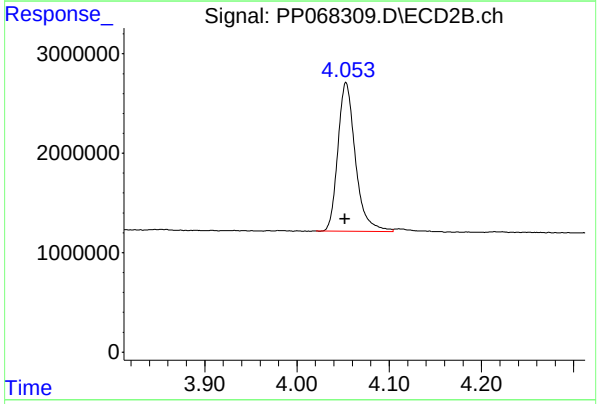
10

Instrument :
ECD_P
ClientSampleId :
WB-305-SW-1



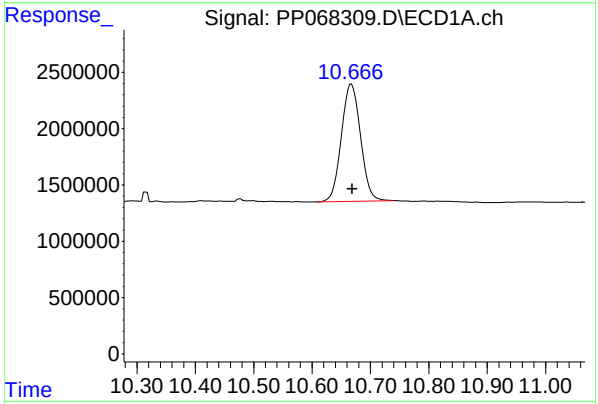
#1 Tetrachloro-m-xylene

R.T.: 4.759 min
Delta R.T.: 0.004 min
Response: 20045493
Conc: 21.66 ng/ml



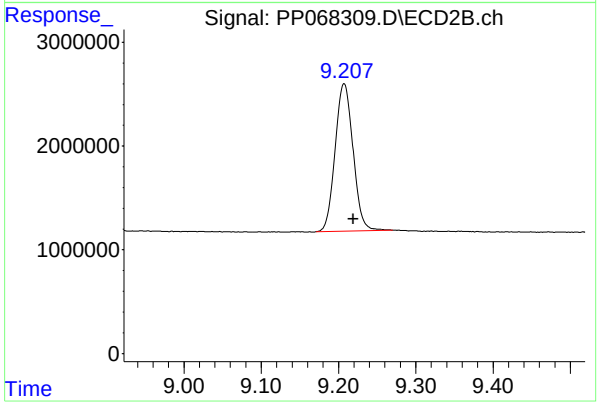
#1 Tetrachloro-m-xylene

R.T.: 4.053 min
Delta R.T.: 0.001 min
Response: 19756036
Conc: 19.55 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.668 min
Delta R.T.: -0.001 min
Response: 23781400
Conc: 20.66 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.207 min
Delta R.T.: -0.012 min
Response: 22833348
Conc: 20.36 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107460.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 00:09
Operator : YP/AJ
Sample : P4578-03
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
WB-305-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:56:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.370	3.643	147.6E6	64601581	16.191m	20.072m
2)	SA Decachlor...	10.054	8.633	40999655	40497778	16.712	14.772
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

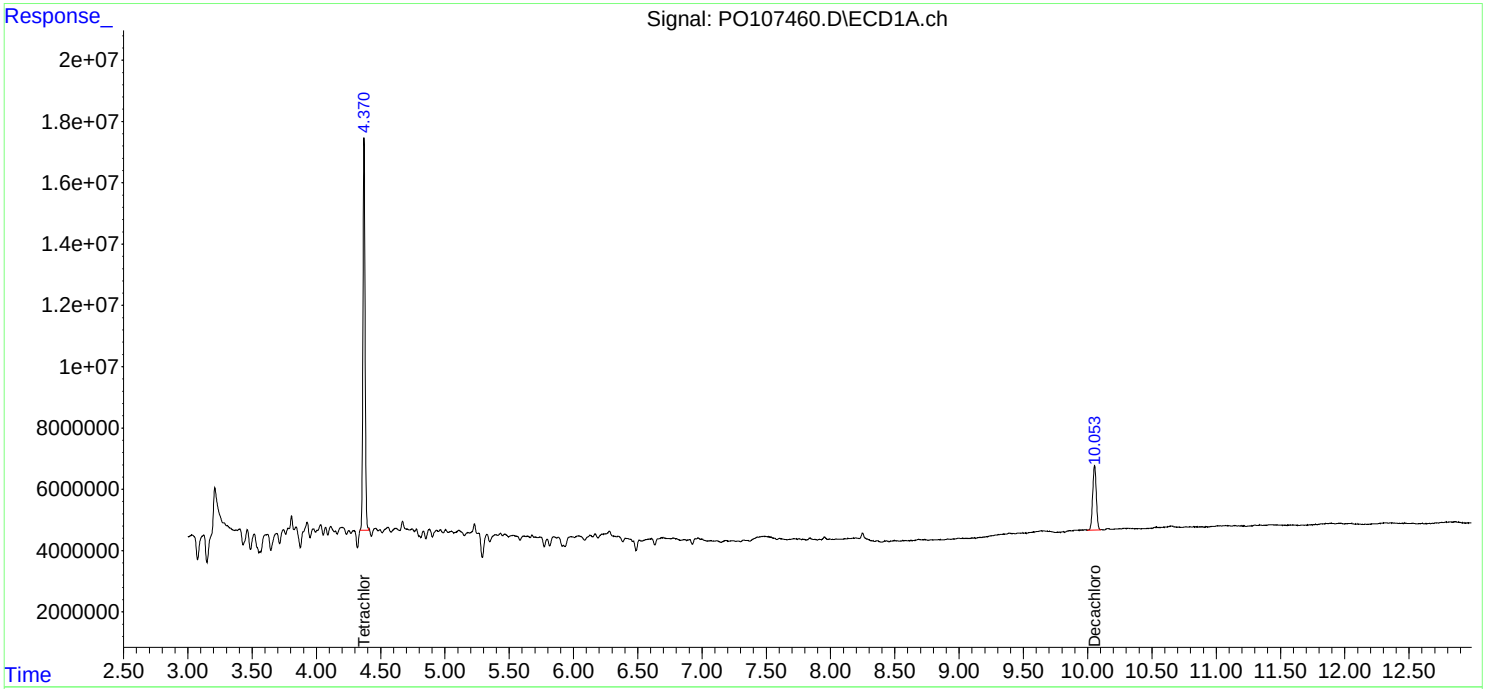
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107460.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 00:09
Operator : YP/AJ
Sample : P4578-03
Misc :
ALS Vial : 30 Sample Multiplier: 1

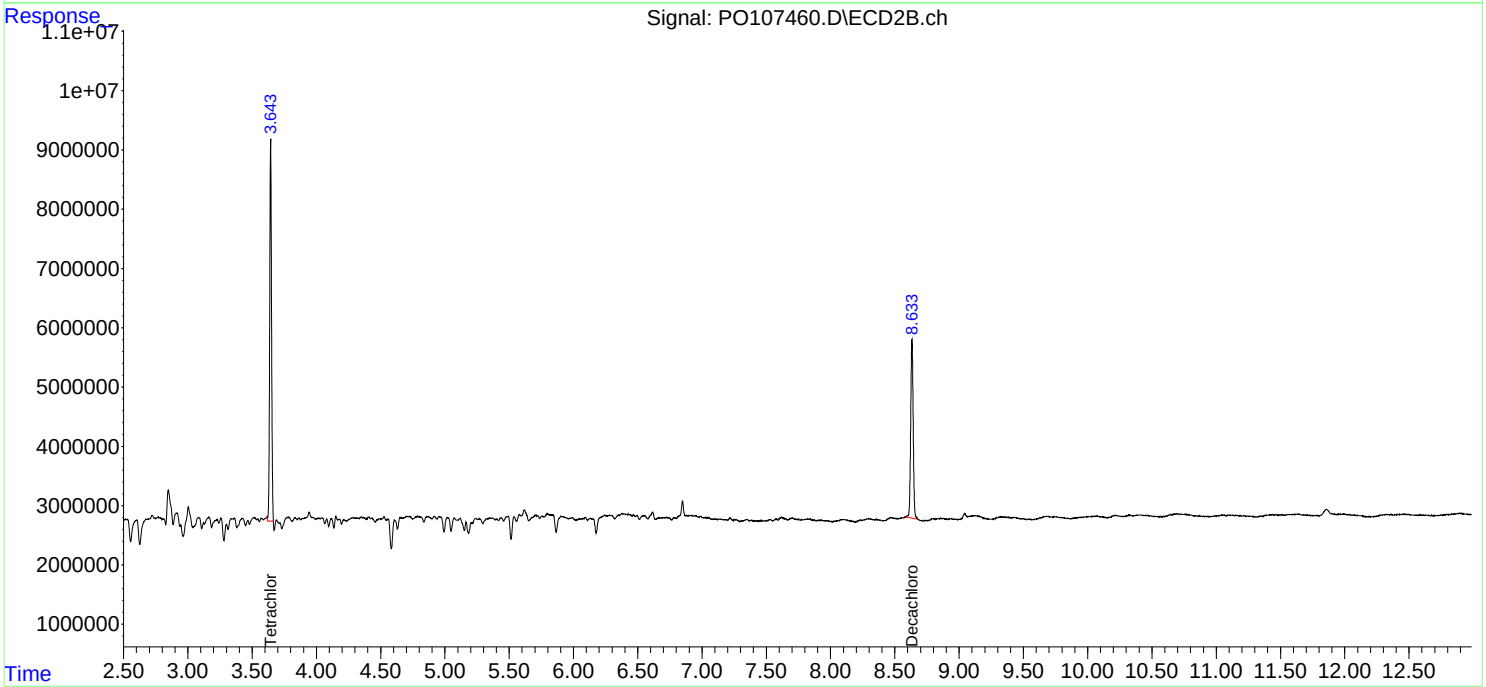
Instrument :
ECD_O
ClientSampleId :
WB-305-TOP

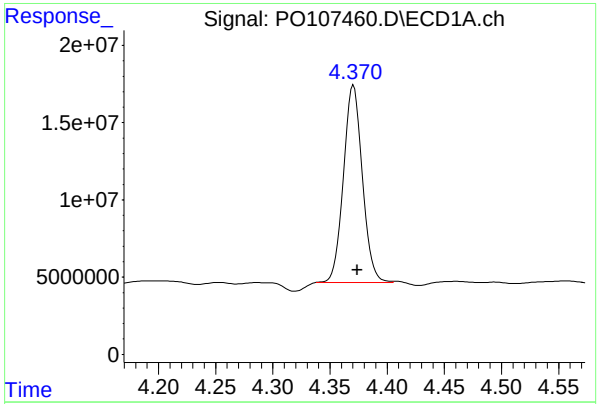
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:56:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







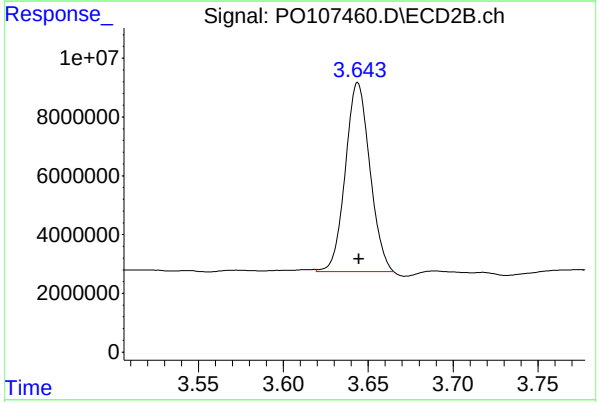
#1 Tetrachloro-m-xylene

R.T.: 4.370 min
Delta R.T.: -0.004 min
Response: 147562908
Conc: 16.19 ng/ml

Instrument :
ECD_O
ClientSampleId :
WB-305-TOP

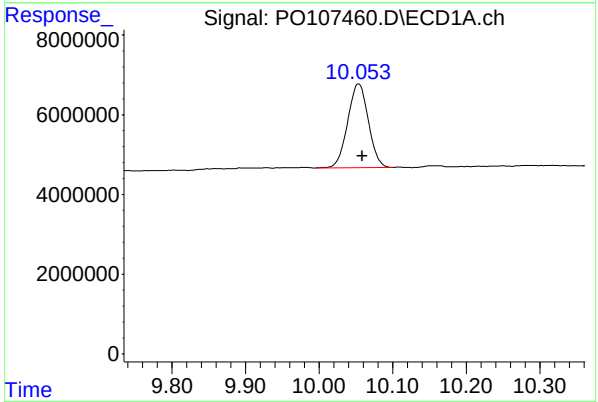
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



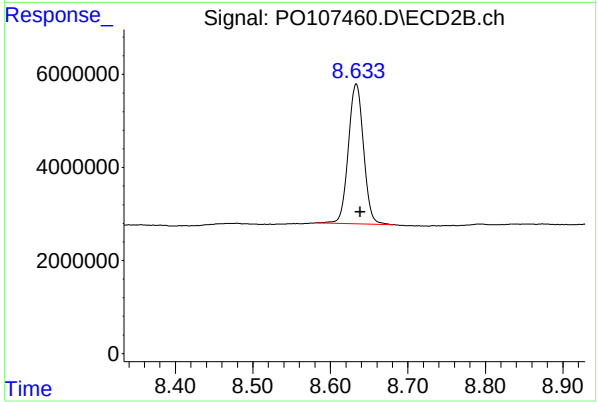
#1 Tetrachloro-m-xylene

R.T.: 3.643 min
Delta R.T.: -0.001 min
Response: 64601581
Conc: 20.07 ng/ml m



#2 Decachlorobiphenyl

R.T.: 10.054 min
Delta R.T.: -0.005 min
Response: 40999655
Conc: 16.71 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.633 min
Delta R.T.: -0.005 min
Response: 40497778
Conc: 14.77 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107461.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 00:27
Operator : YP/AJ
Sample : P4578-04
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
WB-305-TOP-1

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:56:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.370	3.643	159.0E6	72417542	17.443m	22.500m#
2)	SA Decachlor...	10.056	8.634	45557657	44302444	18.569	16.159
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

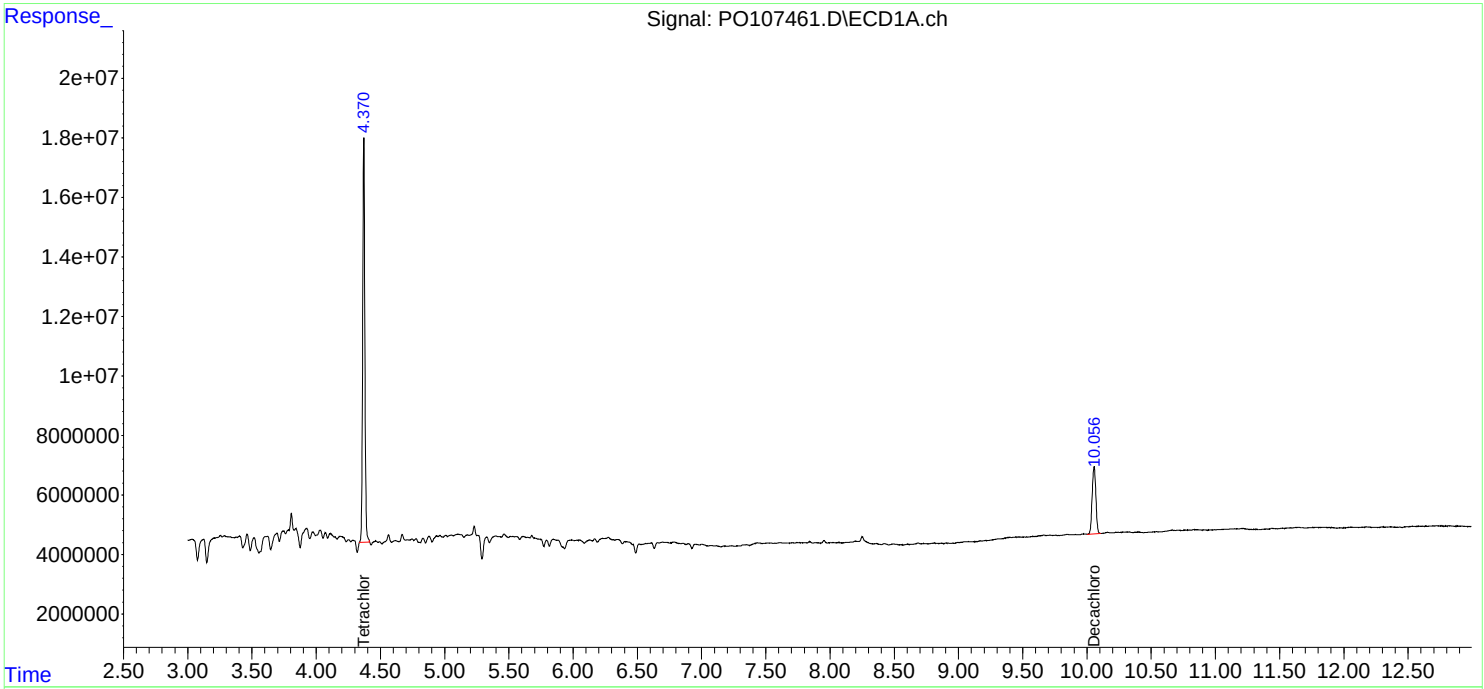
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107461.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 00:27
Operator : YP/AJ
Sample : P4578-04
Misc :
ALS Vial : 31 Sample Multiplier: 1

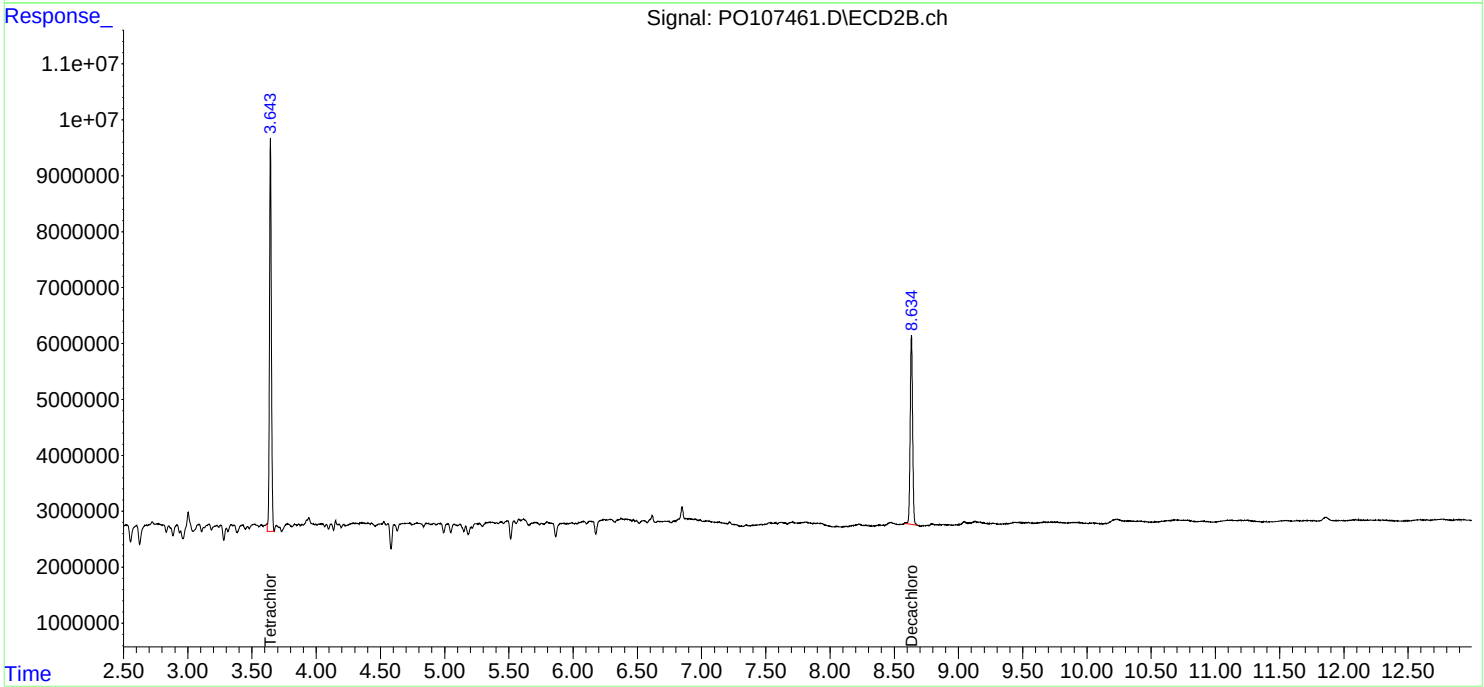
Instrument :
ECD_O
ClientSampleId :
WB-305-TOP-1

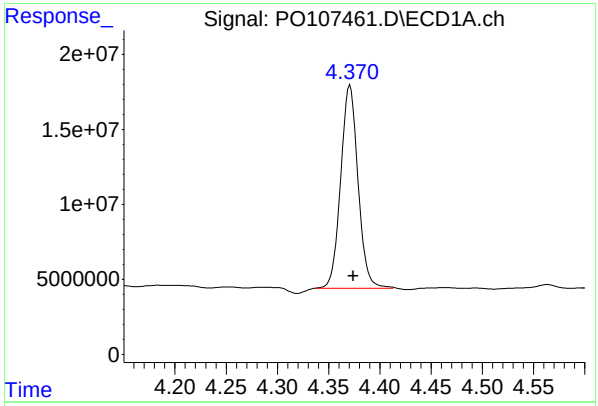
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:56:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







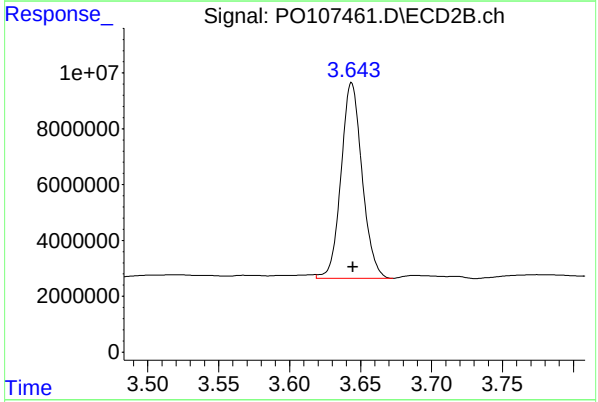
#1 Tetrachloro-m-xylene

R.T.: 4.370 min
Delta R.T.: -0.004 min
Response: 158976692
Conc: 17.44 ng/ml

Instrument :
ECD_O
ClientSampleId :
WB-305-TOP-1

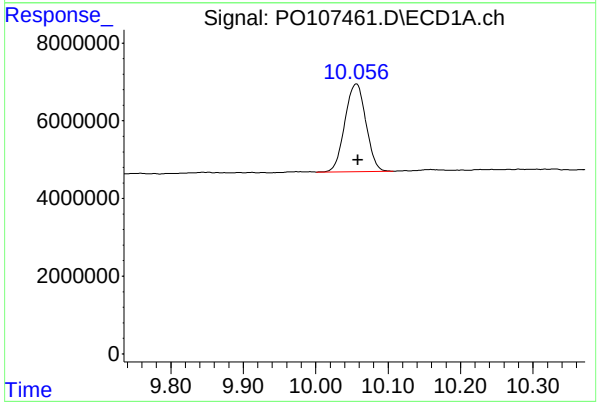
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



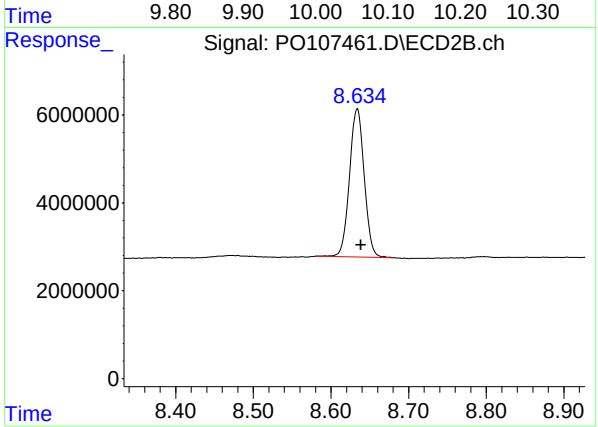
#1 Tetrachloro-m-xylene

R.T.: 3.643 min
Delta R.T.: -0.001 min
Response: 72417542
Conc: 22.50 ng/ml m



#2 Decachlorobiphenyl

R.T.: 10.056 min
Delta R.T.: -0.002 min
Response: 45557657
Conc: 18.57 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.005 min
Response: 44302444
Conc: 16.16 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107462.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 00:45
Operator : YP/AJ
Sample : P4578-05
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
WB-305-BOT

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:57:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.370	3.644	172.2E6	68480538	18.892	21.277
2)	SA Decachlor...	10.055	8.634	43832826	44034741	17.866	16.062
	Target Compounds						

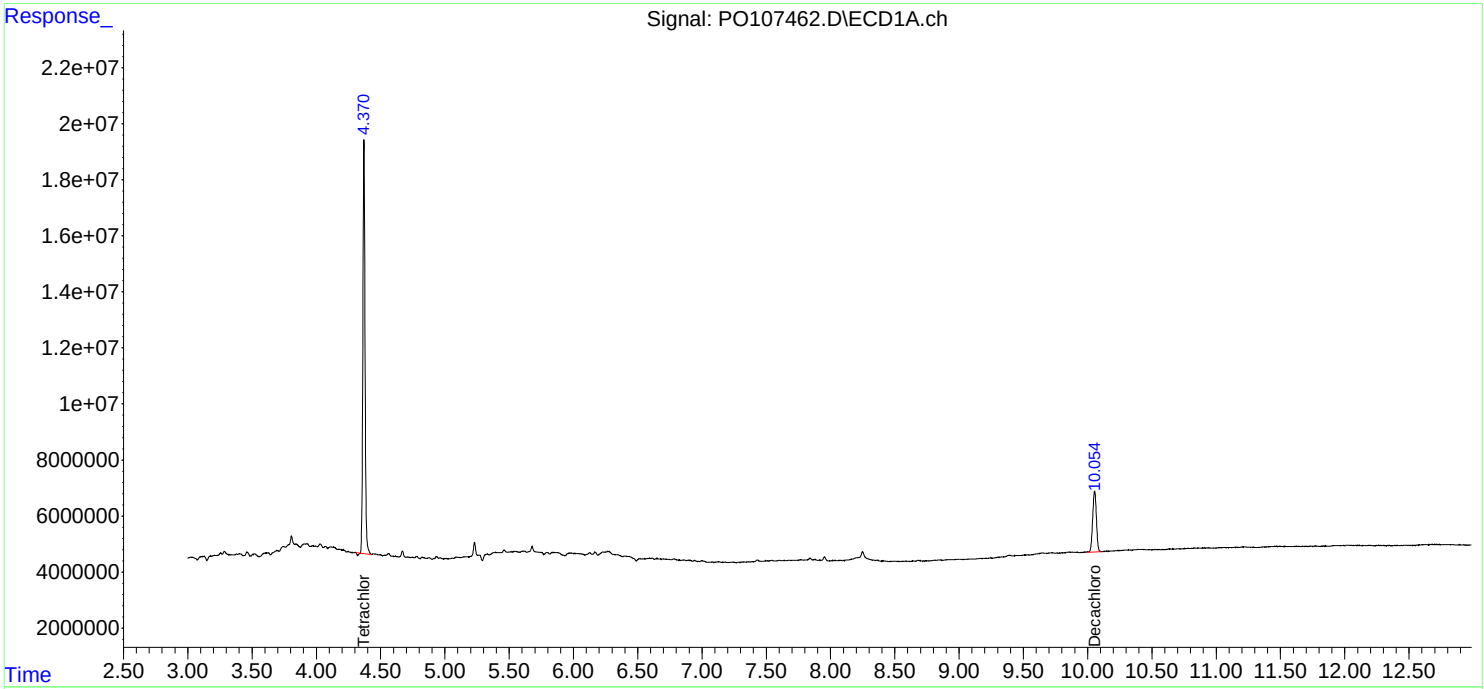
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

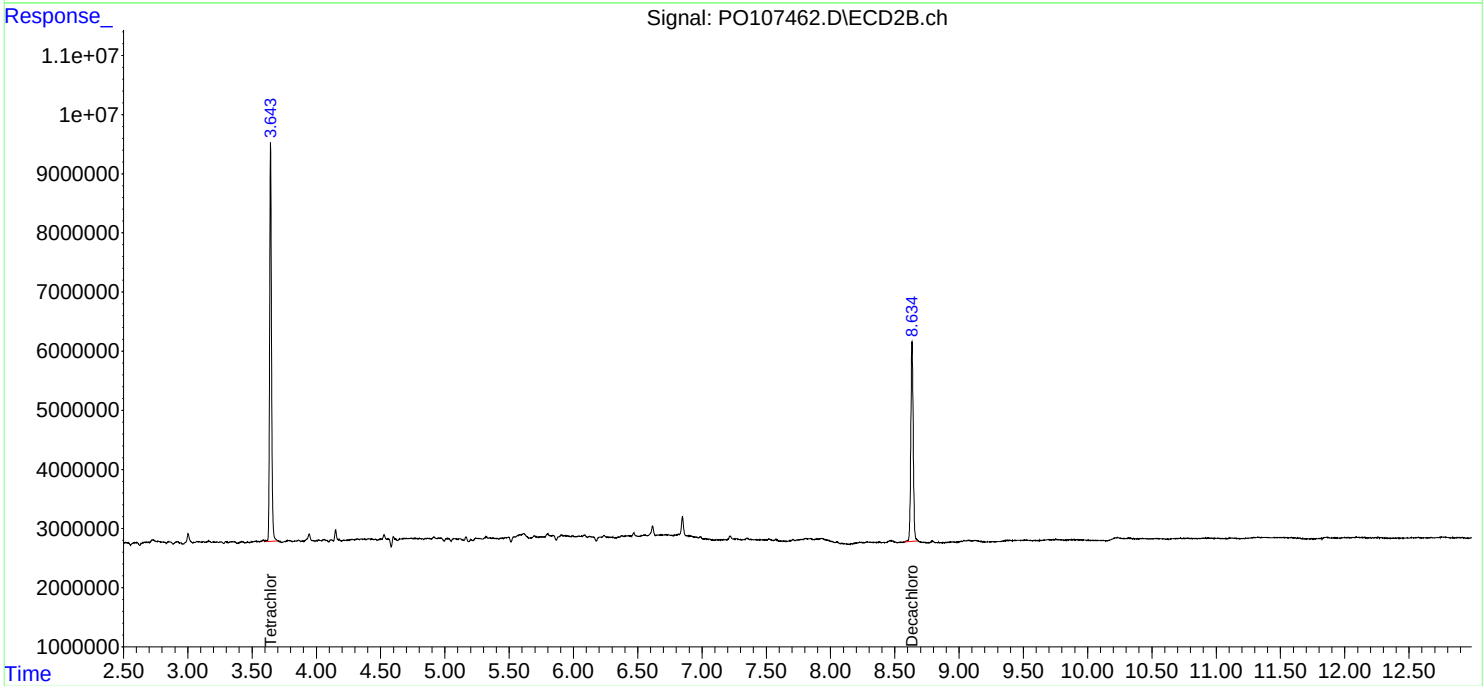
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107462.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 00:45
Operator : YP/AJ
Sample : P4578-05
Misc :
ALS Vial : 32 Sample Multiplier: 1

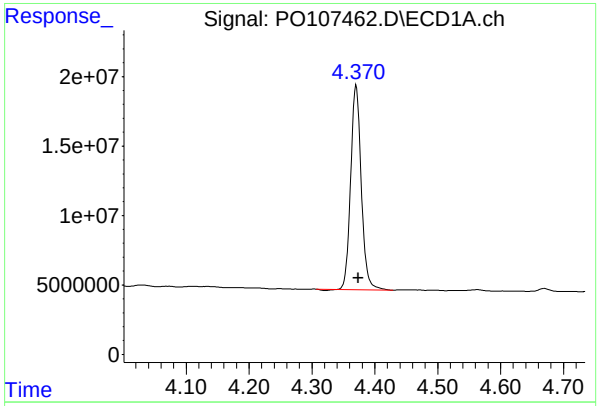
Instrument :
ECD_O
ClientSampleId :
WB-305-BOT

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:57:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



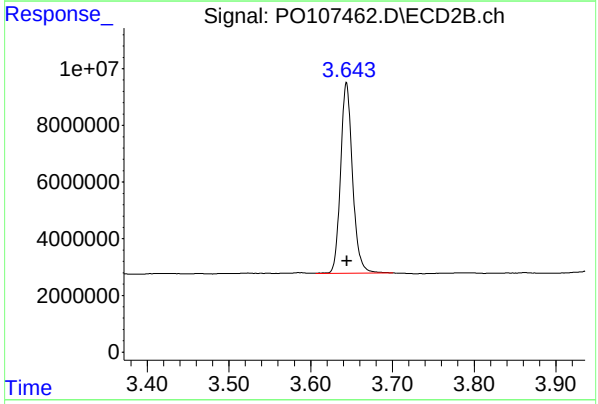




#1 Tetrachloro-m-xylene

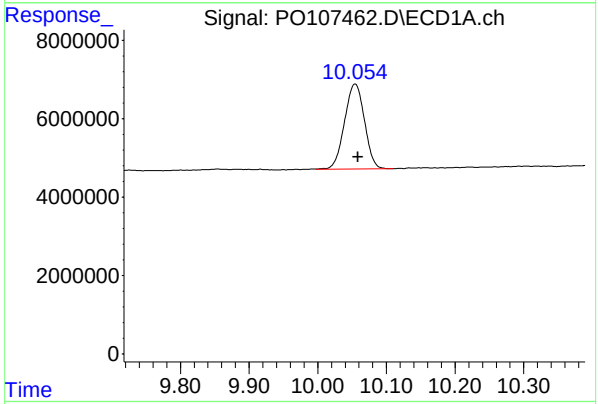
R.T.: 4.370 min
Delta R.T.: -0.004 min
Response: 172177013
Conc: 18.89 ng/ml

Instrument :
ECD_O
ClientSampleId :
WB-305-BOT



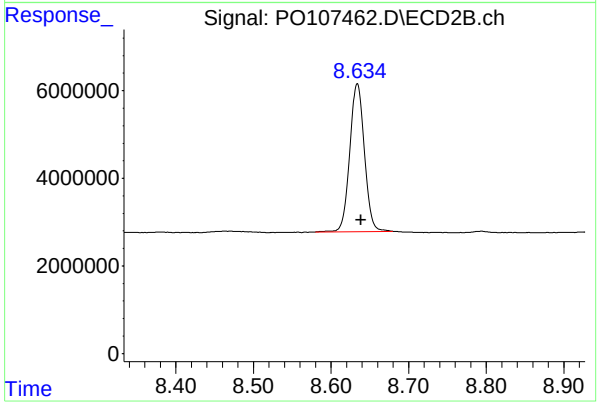
#1 Tetrachloro-m-xylene

R.T.: 3.644 min
Delta R.T.: 0.000 min
Response: 68480538
Conc: 21.28 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.055 min
Delta R.T.: -0.004 min
Response: 43832826
Conc: 17.87 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.005 min
Response: 44034741
Conc: 16.06 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107463.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 01:03
Operator : YP/AJ
Sample : P4578-07
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
WB-305-BOT-1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 05:16:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.370	3.644	175.1E6	67328634	19.210	20.919
2)	SA Decachlor...	10.054	8.634	43378598	44074598	17.681	16.076
	Target Compounds						

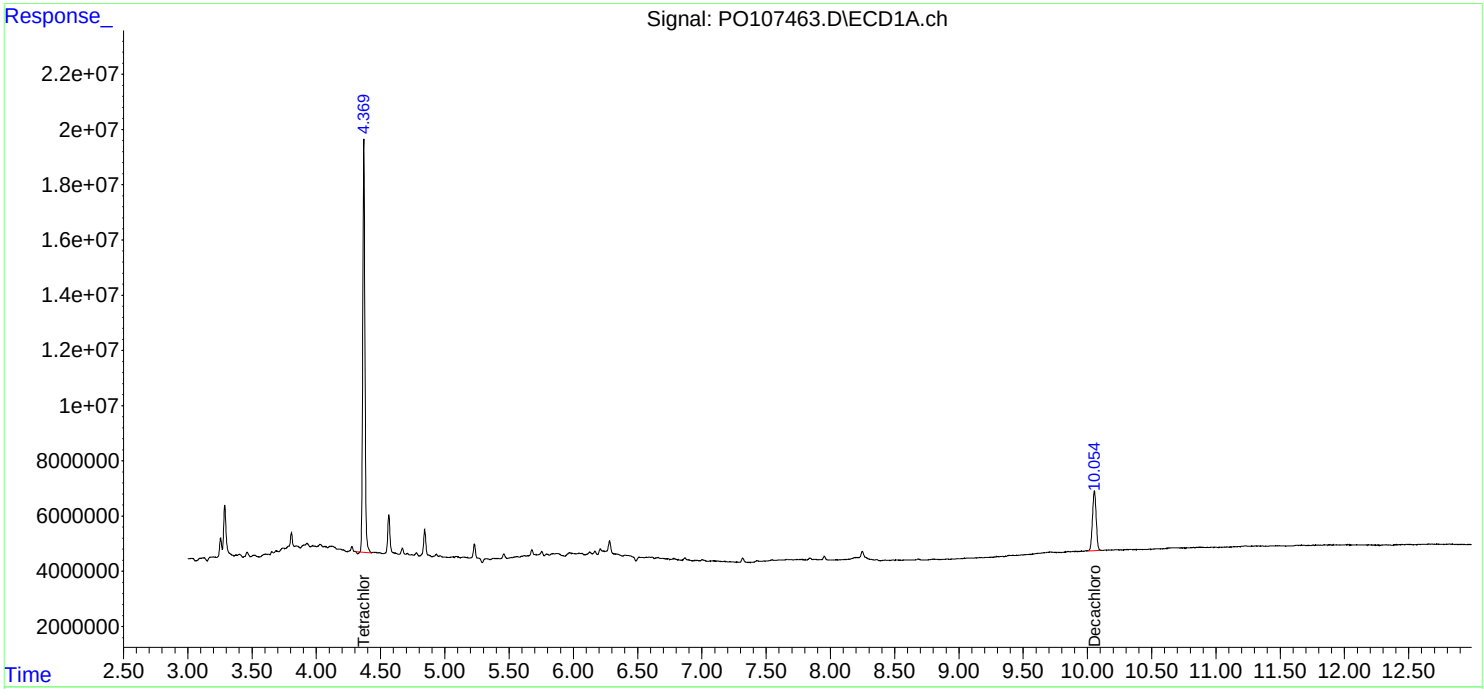
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

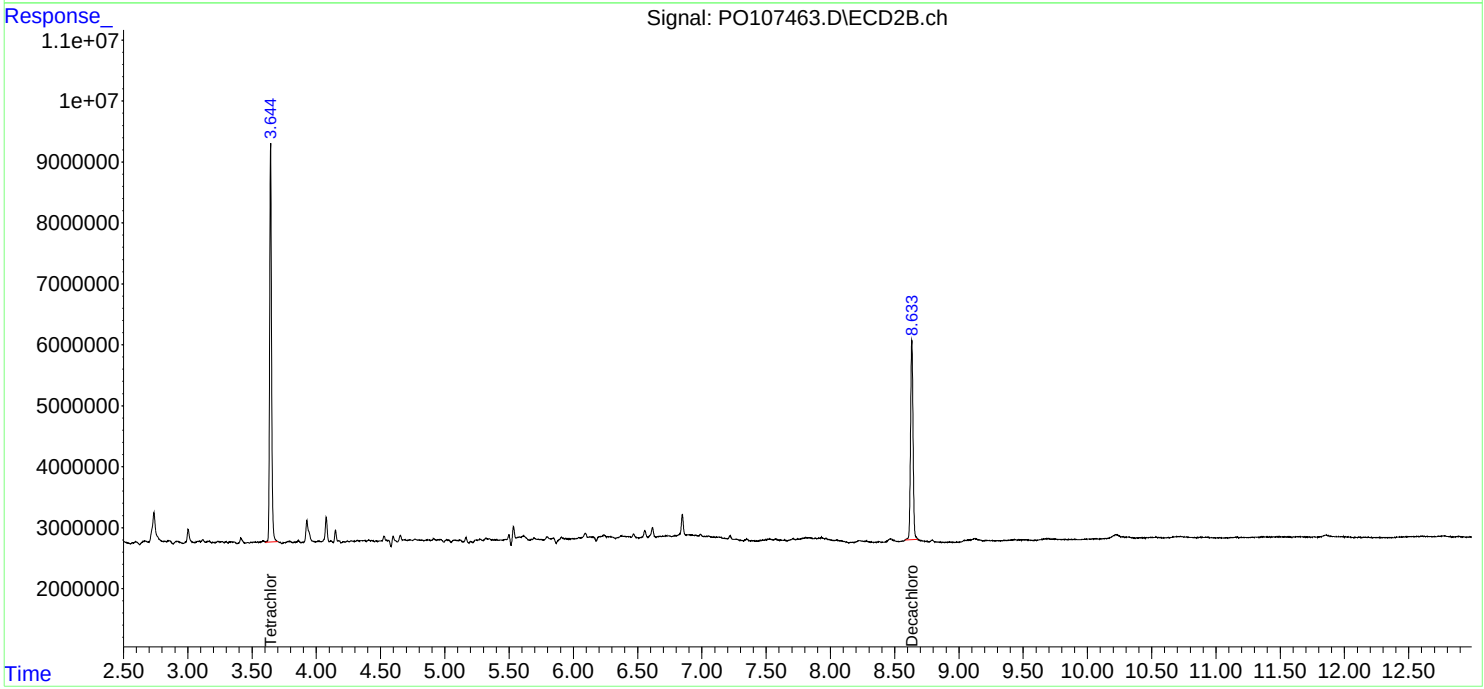
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107463.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 01:03
Operator : YP/AJ
Sample : P4578-07
Misc :
ALS Vial : 33 Sample Multiplier: 1

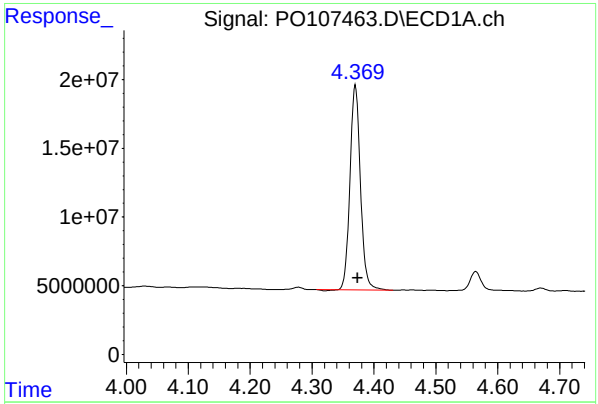
Instrument :
ECD_O
ClientSampleId :
WB-305-BOT-1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 05:16:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



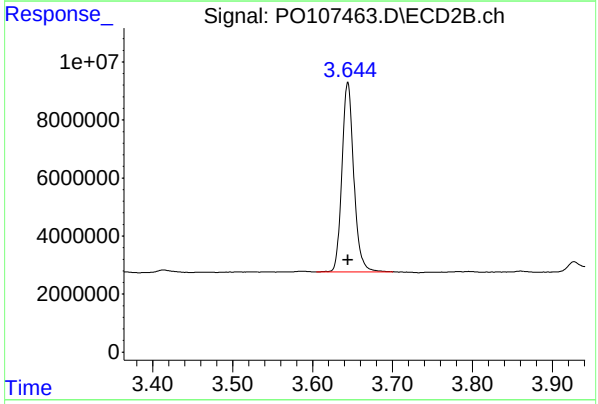




#1 Tetrachloro-m-xylene

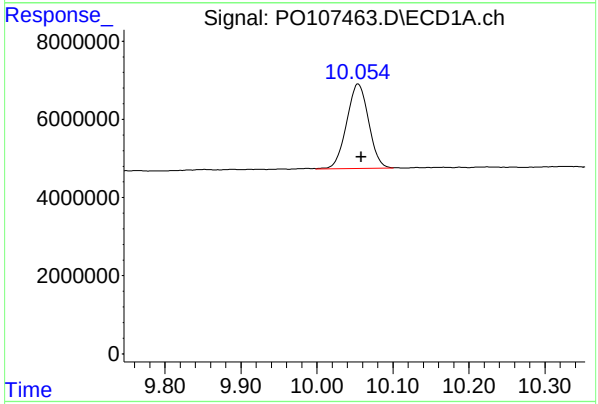
R.T.: 4.370 min
Delta R.T.: -0.004 min
Response: 175077856
Conc: 19.21 ng/ml

Instrument :
ECD_O
ClientSampleId :
WB-305-BOT-1



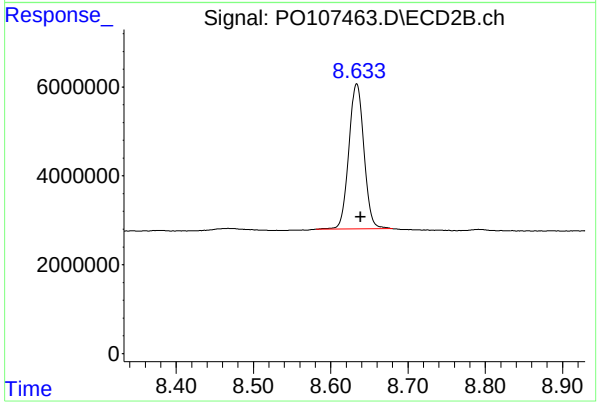
#1 Tetrachloro-m-xylene

R.T.: 3.644 min
Delta R.T.: 0.000 min
Response: 67328634
Conc: 20.92 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.054 min
Delta R.T.: -0.004 min
Response: 43378598
Conc: 17.68 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.005 min
Response: 44074598
Conc: 16.08 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107441.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:58
Operator : YP/AJ
Sample : PB164459BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB164459BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:44:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.371	3.644	191.2E6	69803672	20.984	21.688
2)	SA Decachlor...	10.055	8.634	55996456	61506370	22.824	22.435
	Target Compounds						

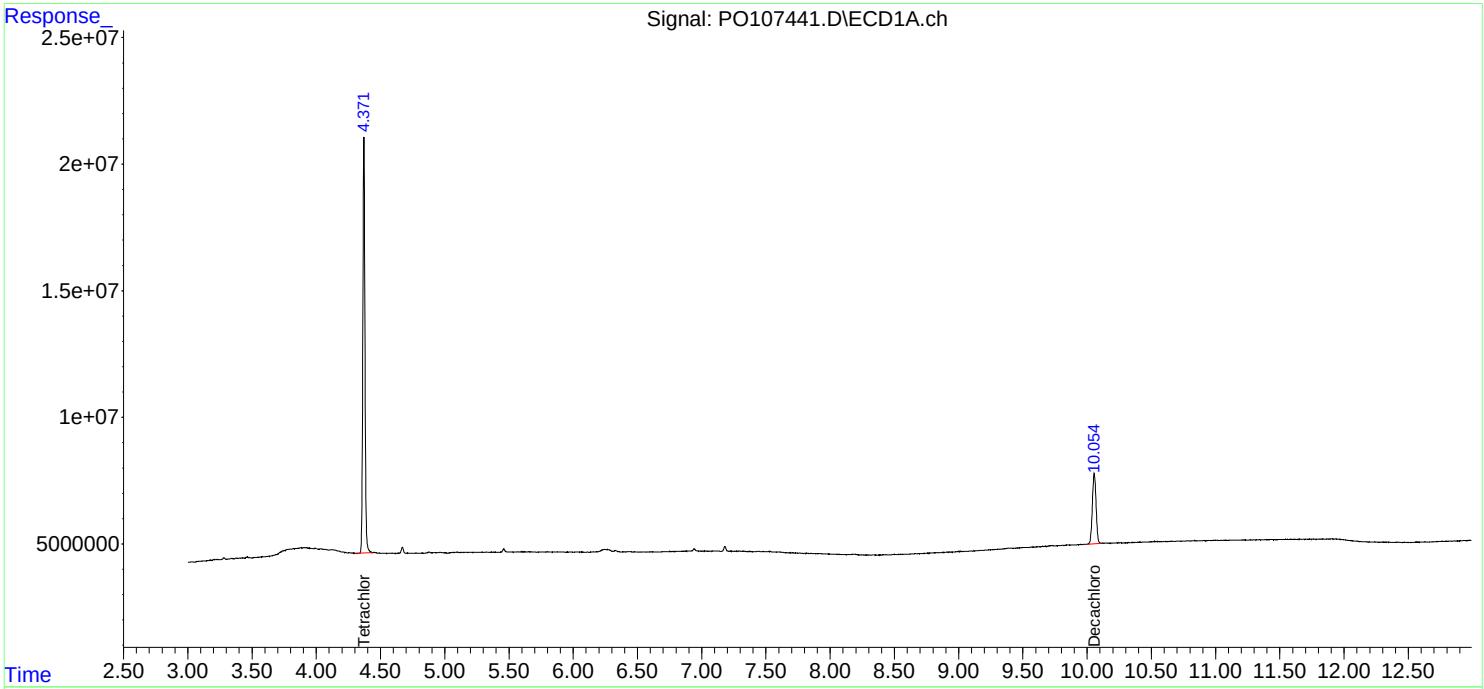
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

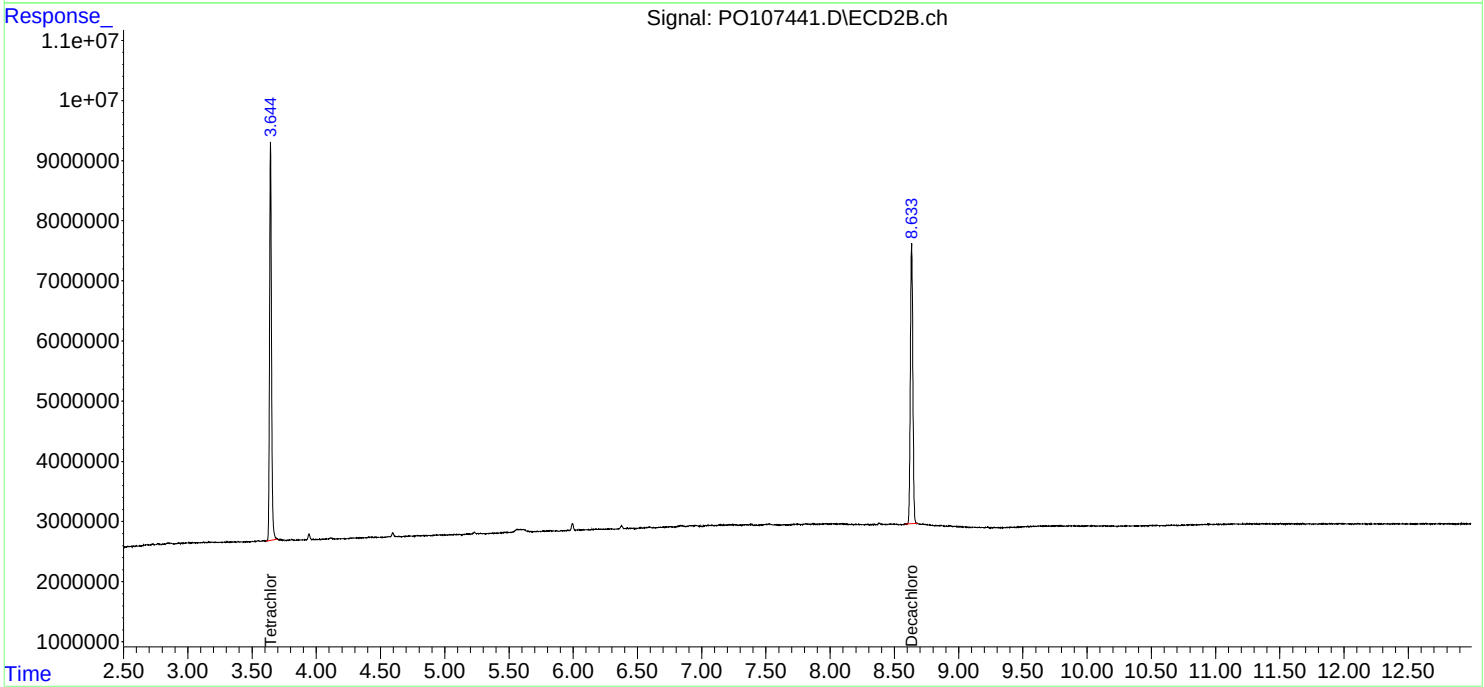
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107441.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:58
Operator : YP/AJ
Sample : PB164459BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

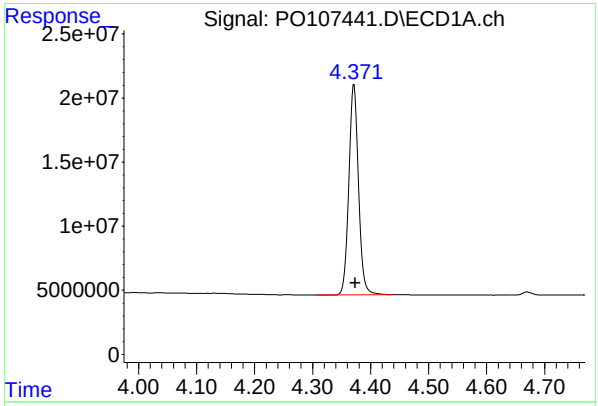
Instrument :
ECD_O
ClientSampleId :
PB164459BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:44:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



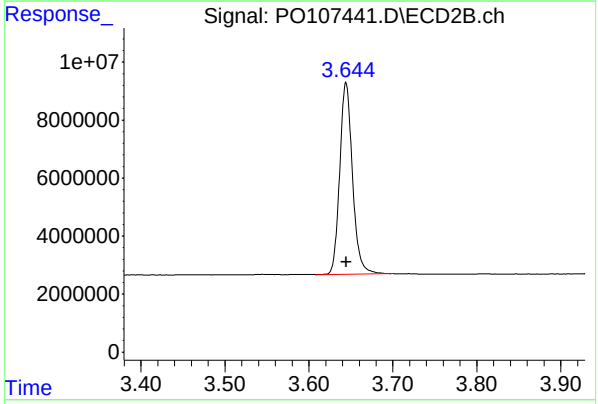




#1 Tetrachloro-m-xylene

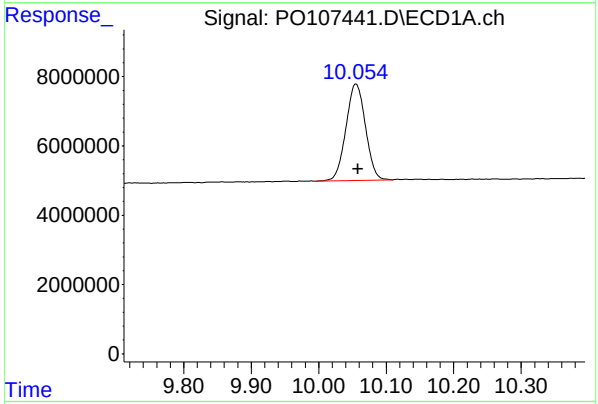
R.T.: 4.371 min
Delta R.T.: -0.003 min
Response: 191241558
Conc: 20.98 ng/ml

Instrument :
ECD_O
ClientSampleId :
PB164459BL



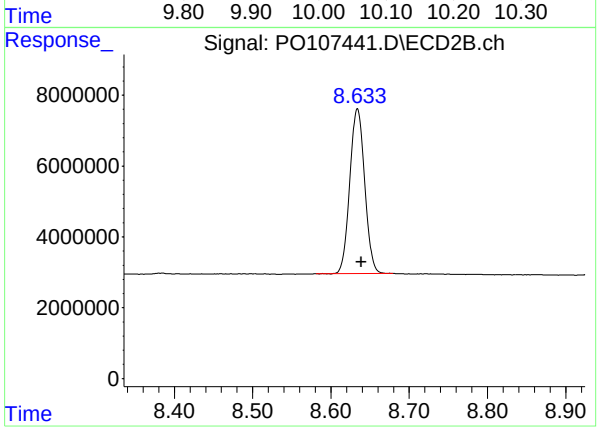
#1 Tetrachloro-m-xylene

R.T.: 3.644 min
Delta R.T.: 0.000 min
Response: 69803672
Conc: 21.69 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.055 min
Delta R.T.: -0.003 min
Response: 55996456
Conc: 22.82 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.005 min
Response: 61506370
Conc: 22.43 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102924\
Data File : PP068304.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 15:16
Operator : YP\AJ
Sample : PB164493BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164493BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 16:34:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.763	4.055	17953025	18359465	19.395	18.170
2)	SA Decachlor...	10.677	9.211	25088274	23504519	21.791	20.959
	Target Compounds						

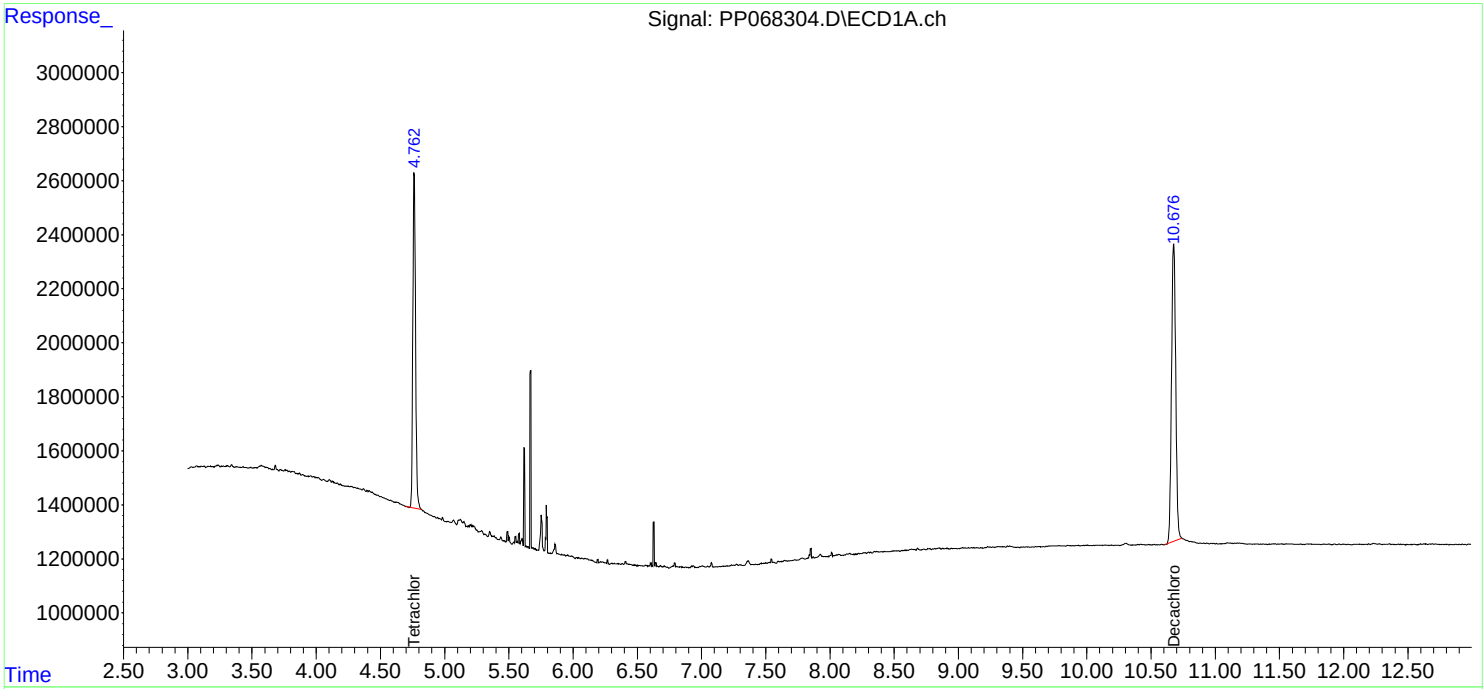
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

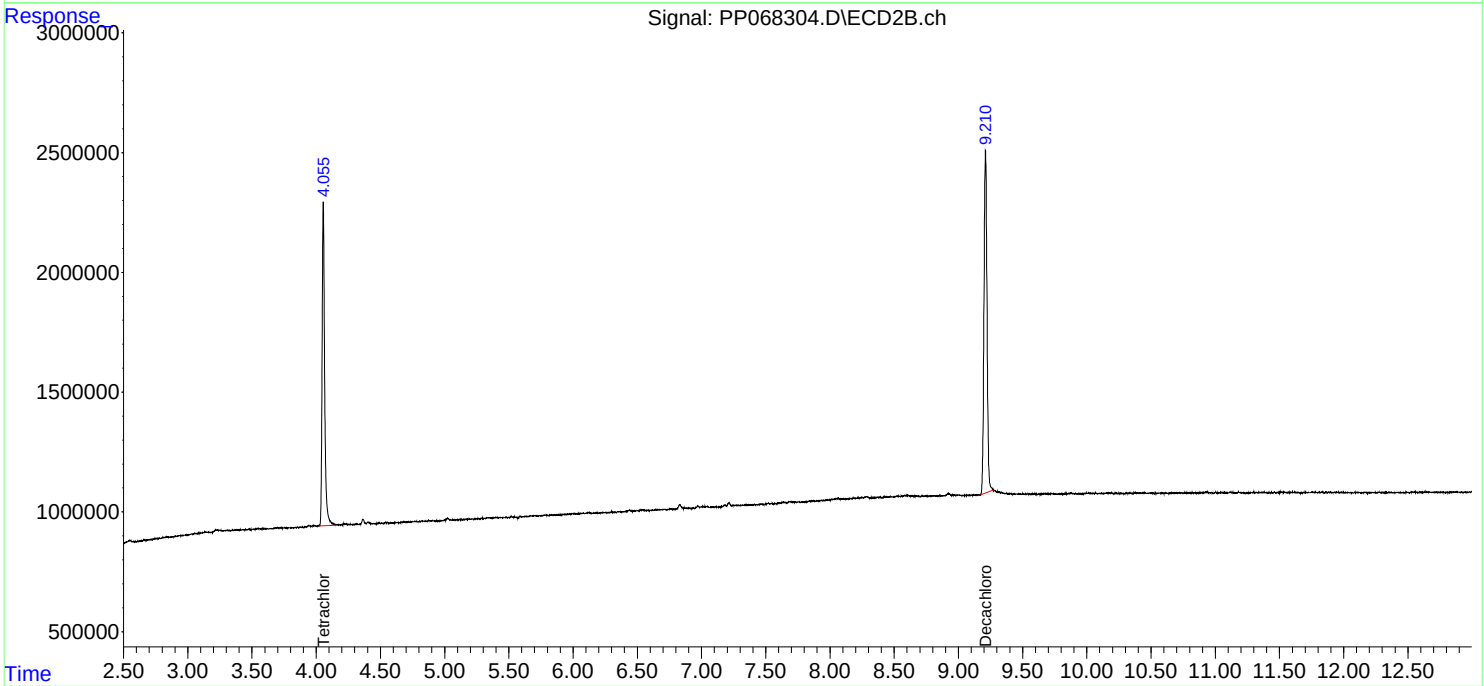
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102924\
Data File : PP068304.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 15:16
Operator : YP\AJ
Sample : PB164493BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164493BL

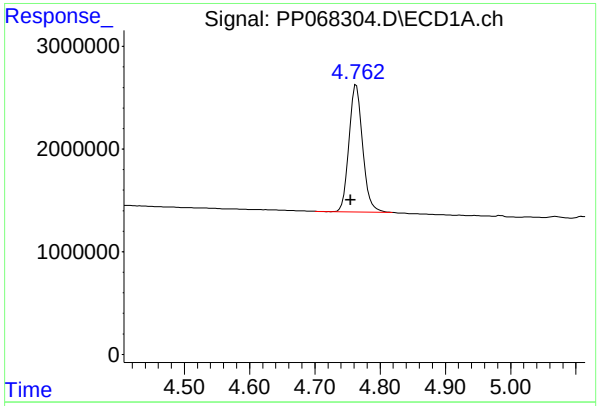
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 16:34:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





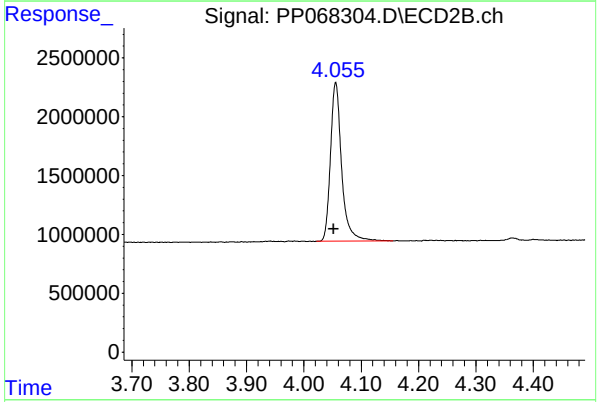
10



#1 Tetrachloro-m-xylene

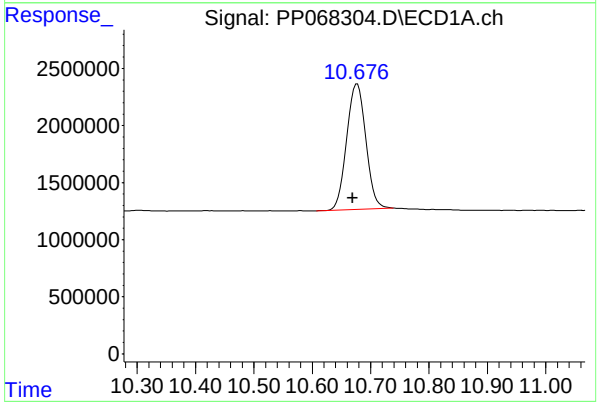
R.T.: 4.763 min
Delta R.T.: 0.008 min
Response: 17953025
Conc: 19.40 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB164493BL



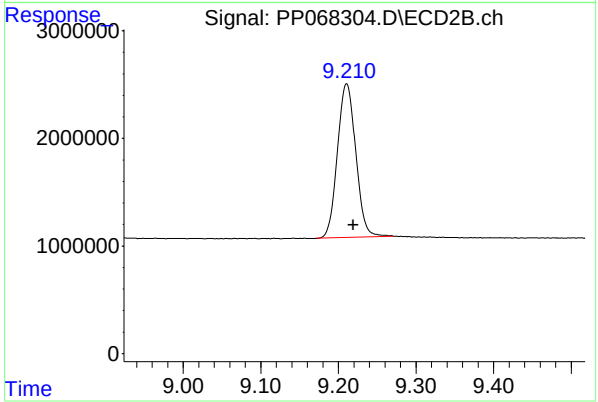
#1 Tetrachloro-m-xylene

R.T.: 4.055 min
Delta R.T.: 0.003 min
Response: 18359465
Conc: 18.17 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.677 min
Delta R.T.: 0.008 min
Response: 25088274
Conc: 21.79 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.211 min
Delta R.T.: -0.008 min
Response: 23504519
Conc: 20.96 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107442.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 18:16
Operator : YP/AJ
Sample : PB164459BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB164459BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:45:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.371	3.644	187.8E6	64396311	20.609	20.008
2)	SA Decachlor...	10.057	8.635	54146799	59960863	22.070	21.871
	Target Compounds						
3)	L1 AR-1016-1	5.520	4.725	126.4E6	51115745	468.450	494.993
4)	L1 AR-1016-2	5.542	4.743	184.2E6	70687895	464.047	501.447
5)	L1 AR-1016-3	5.605	4.920	116.4E6	37744879	463.582	479.327
6)	L1 AR-1016-4	5.702	4.960	93231305	29998416	484.037	453.777
7)	L1 AR-1016-5	5.996	5.174	84471028	38761716	462.466	471.934
31)	L7 AR-1260-1	7.124	6.204	123.6E6	77139178	478.154	497.176
32)	L7 AR-1260-2	7.380	6.391	128.3E6	92957328	487.562	527.820
33)	L7 AR-1260-3	7.741	6.544	73214520	85815643	407.324	511.574m#
34)	L7 AR-1260-4	7.965	7.015	77702372	62965240	442.739m	435.201
35)	L7 AR-1260-5	8.279	7.255	119.6E6	152.7E6	420.536	463.529

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

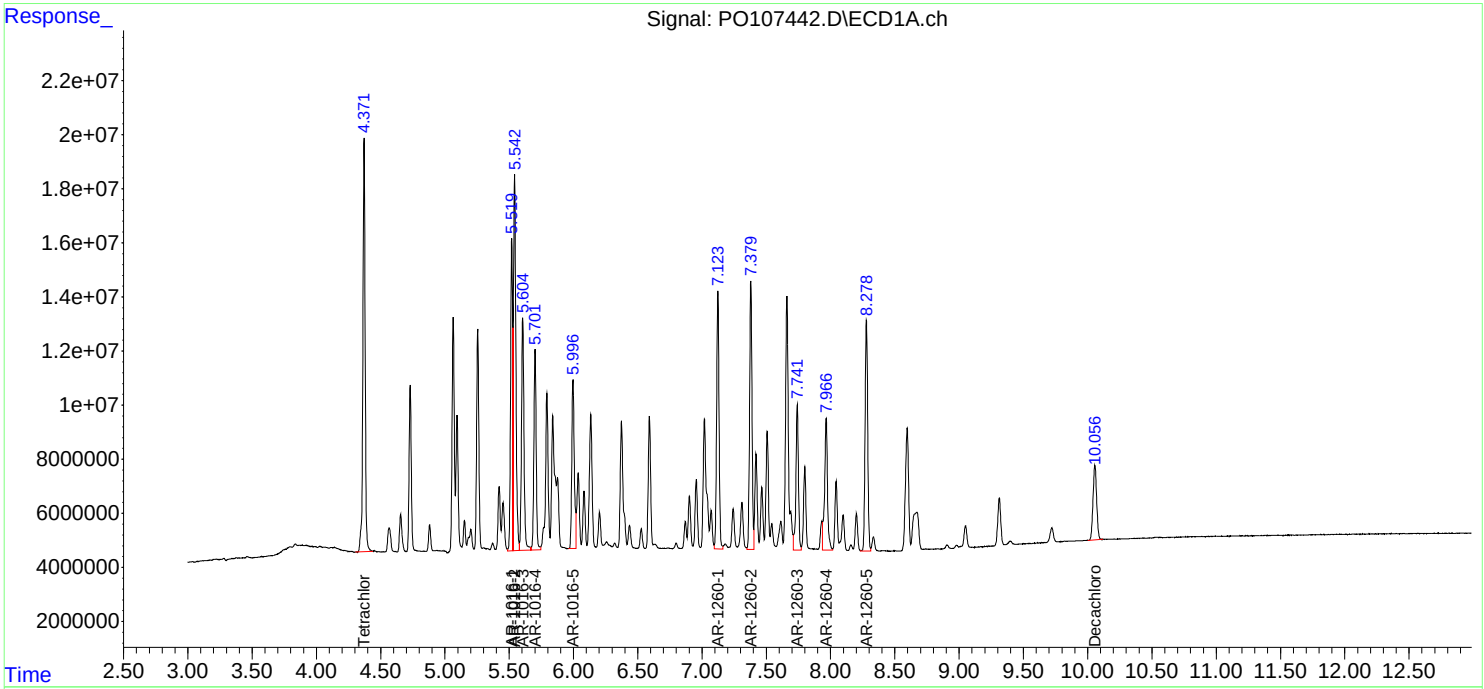
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107442.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 18:16
Operator : YP/AJ
Sample : PB164459BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

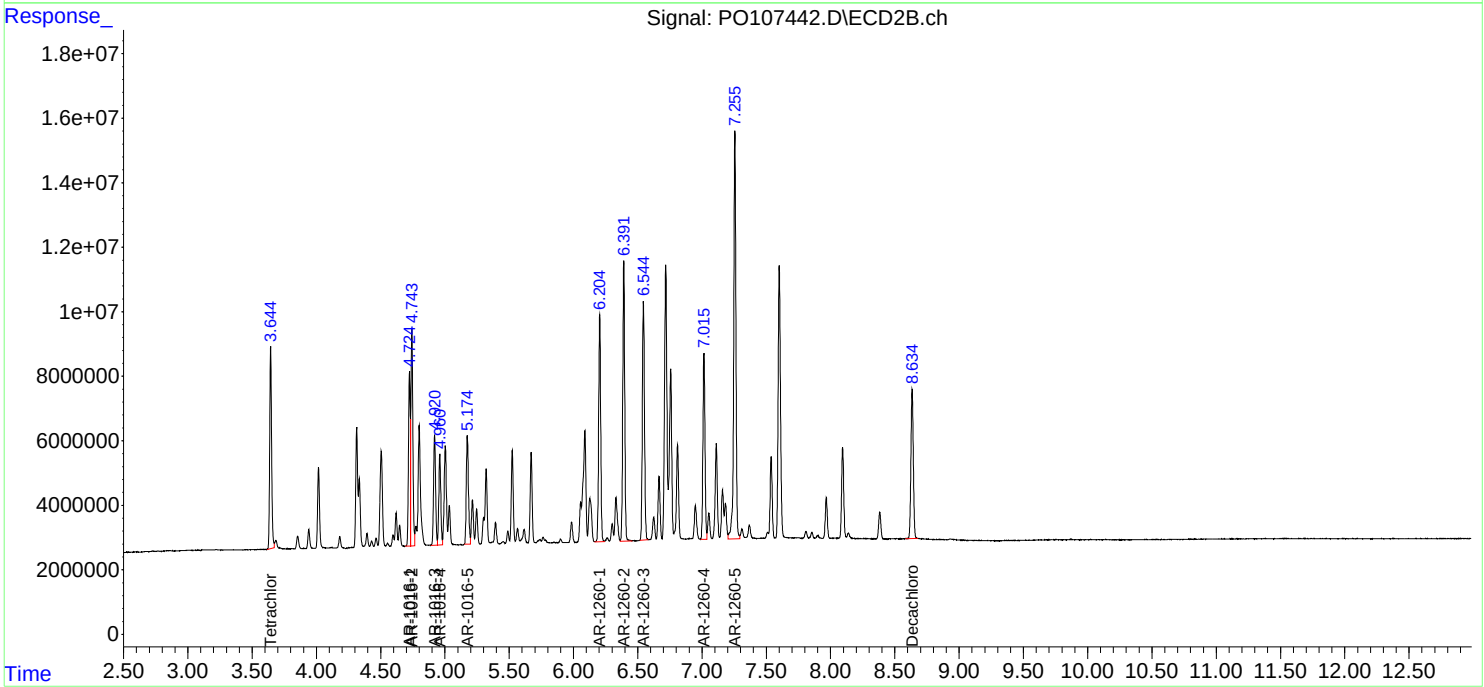
Instrument :
ECD_O
ClientSampleId :
PB164459BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:45:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102924\
Data File : PP068305.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 15:32
Operator : YP\AJ
Sample : PB164493BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164493BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/30/2024
Supervised By :Ankita Jodhani 10/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 16:35:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.760	4.054	19124188	18749306	20.660	18.556
2)	SA Decachlor...	10.673	9.209	25716203	24105587	22.337	21.495
	Target Compounds						
3)	L1 AR-1016-1	5.924	5.160	14123979	13474955	427.136	385.139
4)	L1 AR-1016-2	5.946	5.179	21623076	18908546	443.361	392.550
5)	L1 AR-1016-3	6.010	5.360	13524466	10550004	429.185	391.648
6)	L1 AR-1016-4	6.108	5.399	12237223	9423304	475.349	391.250
7)	L1 AR-1016-5	6.402	5.618	11221868	11491789	414.597	377.897
31)	L7 AR-1260-1	7.525	6.660	23777823	23022692	440.137	404.176
32)	L7 AR-1260-2	7.778	6.847	27134515	26990041	428.863	404.622
33)	L7 AR-1260-3	8.139	7.004	20045224	26041485	386.609	408.807
34)	L7 AR-1260-4	8.376	7.478	24049555	20264271	399.531m	366.491
35)	L7 AR-1260-5	8.715	7.717	41678807	44683666	386.946	365.365

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

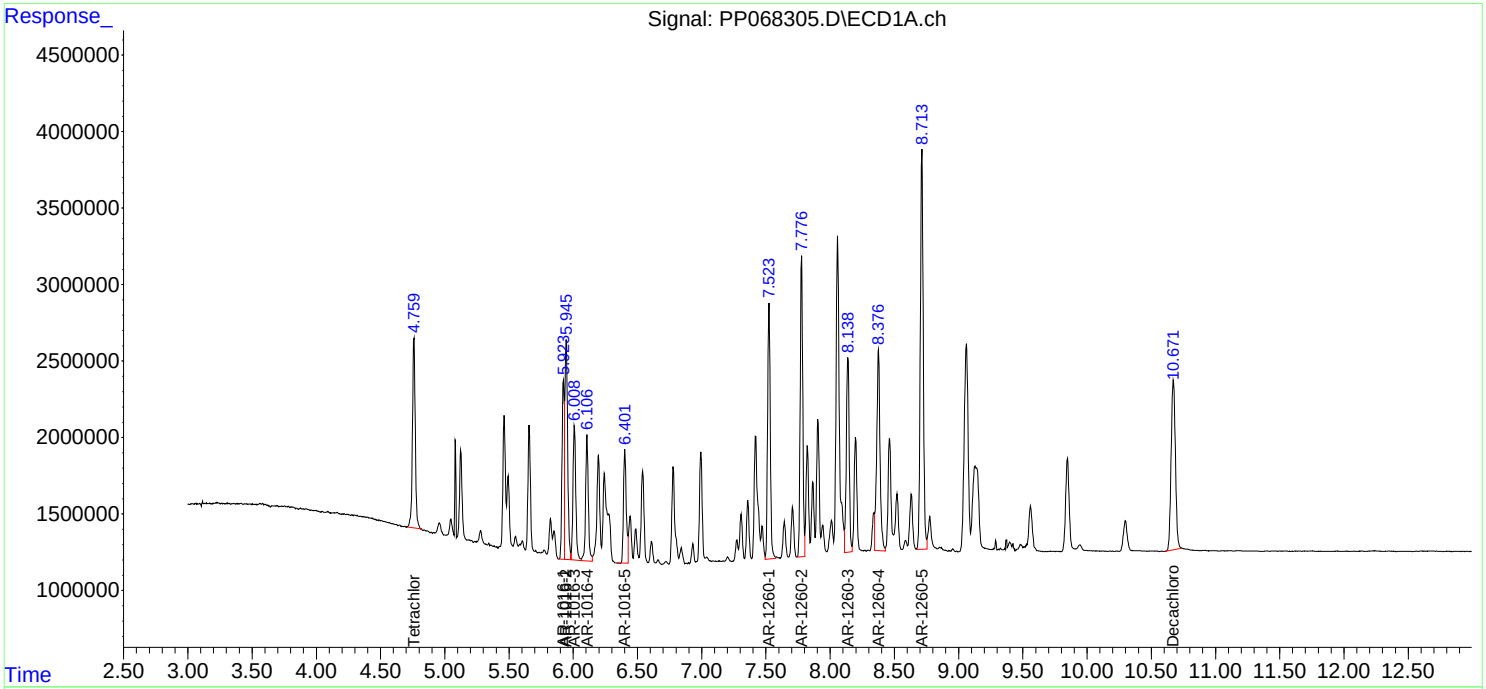
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102924\
Data File : PP068305.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 15:32
Operator : YP\AJ
Sample : PB164493BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

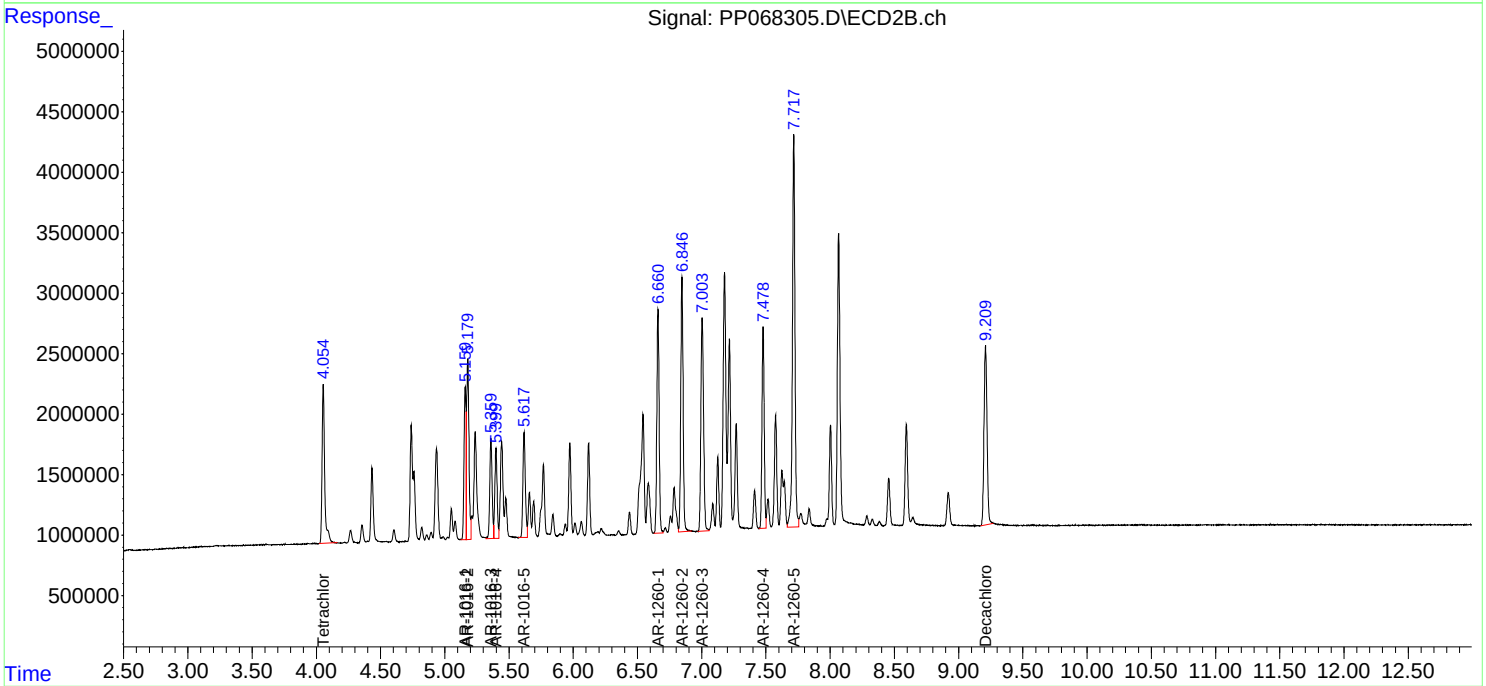
Instrument :
ECD_P
ClientSampleId :
PB164493BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/30/2024
Supervised By :Ankita Jodhani 10/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 16:35:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102924\
Data File : PP068306.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 15:48
Operator : YP\AJ
Sample : PB164493BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164493BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/30/2024
Supervised By :Ankita Jodhani 10/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 16:36:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.760	4.053	19285797	18735505	20.835	18.543
2)	SA Decachlor...	10.671	9.209	25637467	23455174	22.268	20.915
	Target Compounds						
3)	L1 AR-1016-1	5.924	5.159	13009942	13362082	393.446	381.913
4)	L1 AR-1016-2	5.943	5.179	24093201	18754094	494.008	389.343
5)	L1 AR-1016-3	6.009	5.359	13268233	10462568	421.054	388.402
6)	L1 AR-1016-4	6.108	5.399	11061537	9381088	429.680	389.497
7)	L1 AR-1016-5	6.400	5.617	11636724	11439435	429.924m	376.175
31)	L7 AR-1260-1	7.524	6.659	22989855	22900468	425.551	402.031
32)	L7 AR-1260-2	7.777	6.846	26529777	26729498	419.305	400.716
33)	L7 AR-1260-3	8.138	7.003	19429546	25766701	374.734	404.494
34)	L7 AR-1260-4	8.376	7.478	24080439	19703733	400.044m	356.353
35)	L7 AR-1260-5	8.714	7.716	40848851	43619130	379.241	356.661

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

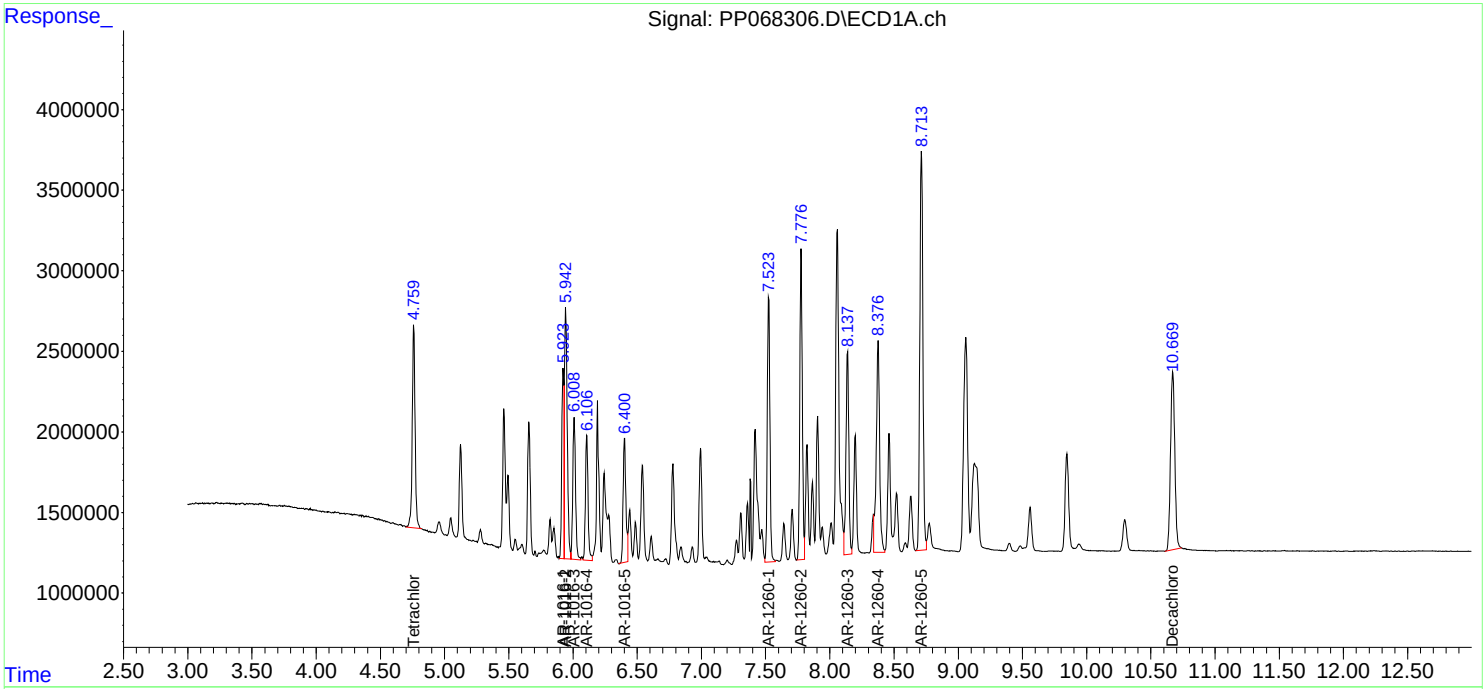
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102924\
Data File : PP068306.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Oct 2024 15:48
Operator : YP\AJ
Sample : PB164493BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

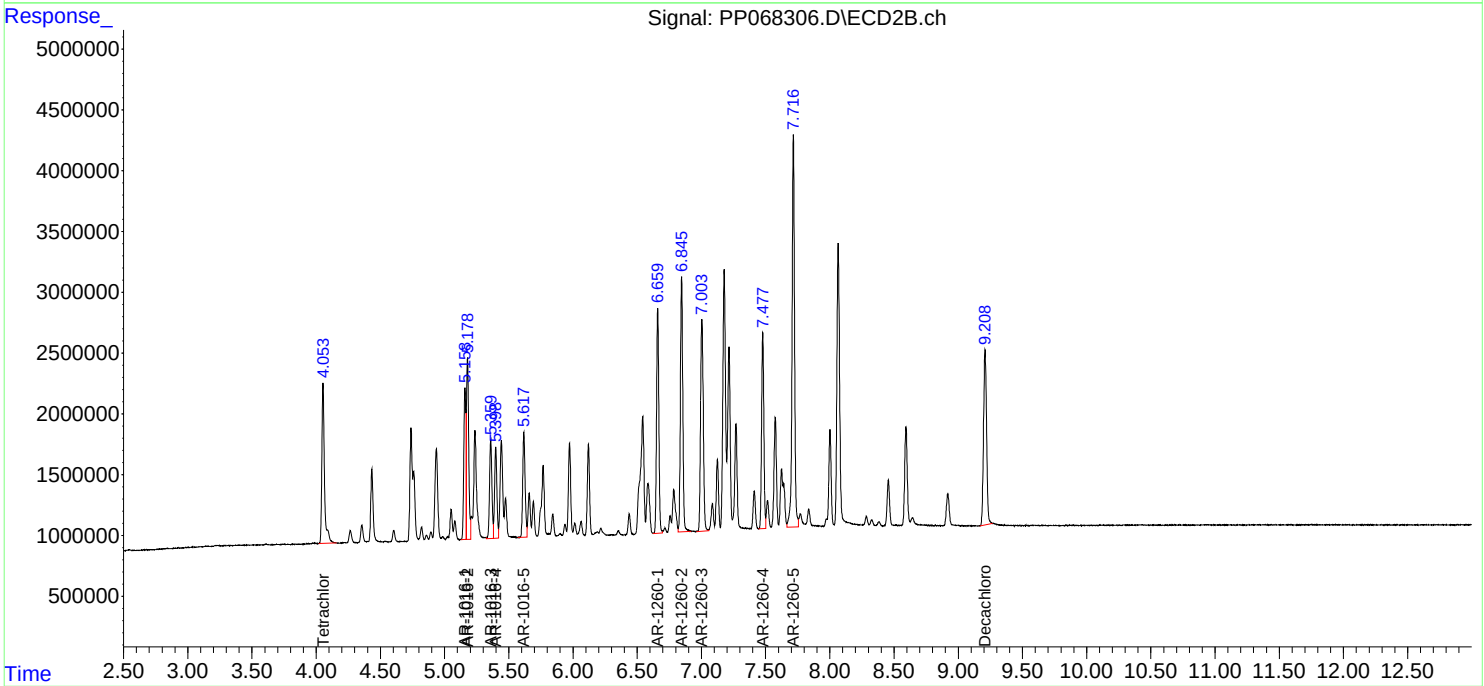
Instrument :
ECD_P
ClientSampleId :
PB164493BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/30/2024
Supervised By :Ankita Jodhani 10/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 16:36:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107446.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 19:28
Operator : YP/AJ
Sample : P4566-01MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
HD-01-102524MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:47:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.371	3.645	151.5E6	60331475	16.625m	18.745
2)	SA Decachlor...	10.056	8.636	42535266	40618324	17.337	14.816
	Target Compounds						
3)	L1 AR-1016-1	5.520	4.725	114.3E6	48686897	423.678m	471.472
4)	L1 AR-1016-2	5.542	4.744	150.5E6	63976326	379.240m	453.837
5)	L1 AR-1016-3	5.604	4.919	96188798	36682273	382.964m	465.832
6)	L1 AR-1016-4	5.702	4.961	84266032	29943185	437.491m	452.941
7)	L1 AR-1016-5	5.995	5.173	85879210	29604184	470.175m	360.438
31)	L7 AR-1260-1	7.123	6.204	104.6E6	62311405	404.427	401.608
32)	L7 AR-1260-2	7.380	6.391	117.1E6	73115238	445.053	415.155
33)	L7 AR-1260-3	7.742	6.544	65417179	63509194	363.944	378.598
34)	L7 AR-1260-4	7.966	7.015	74427130	45946966	424.077	317.575 #
35)	L7 AR-1260-5	8.279	7.255	120.9E6	113.0E6	424.956	343.132

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

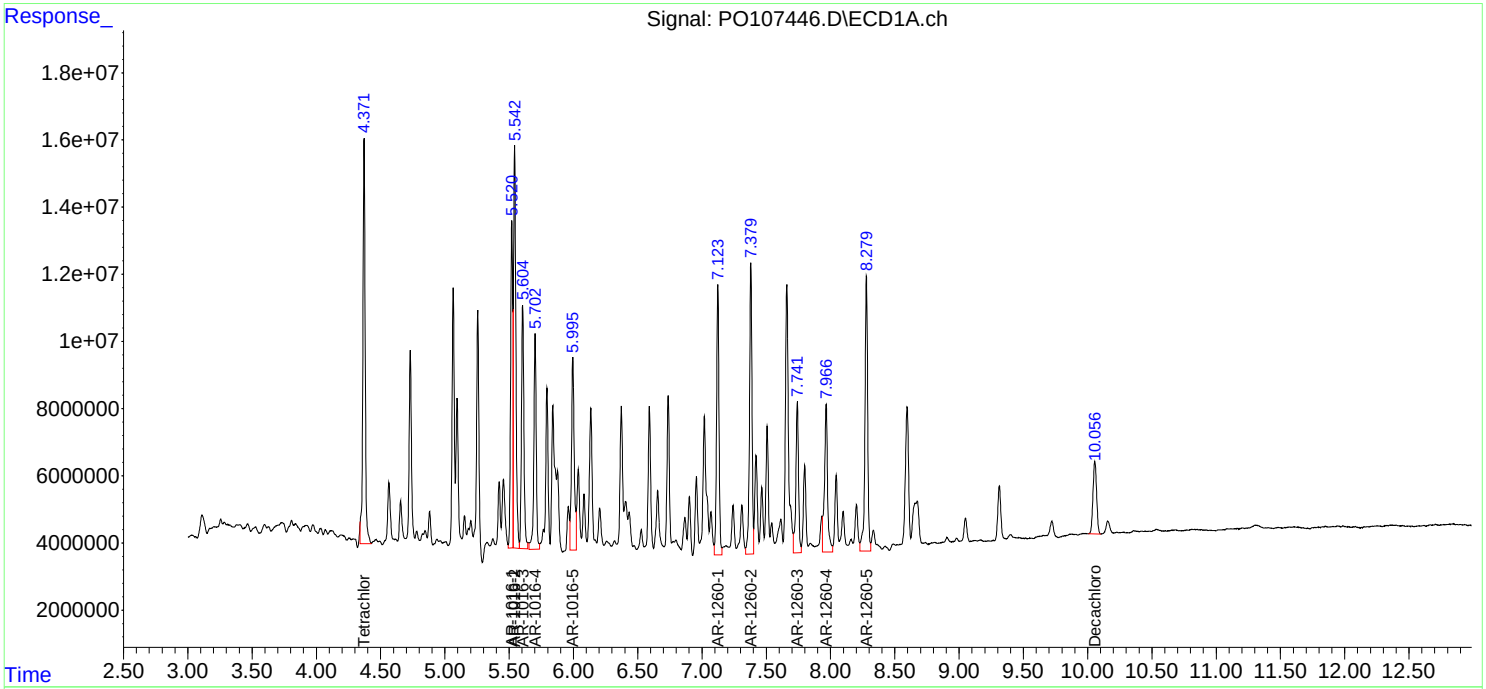
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107446.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 19:28
Operator : YP/AJ
Sample : P4566-01MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

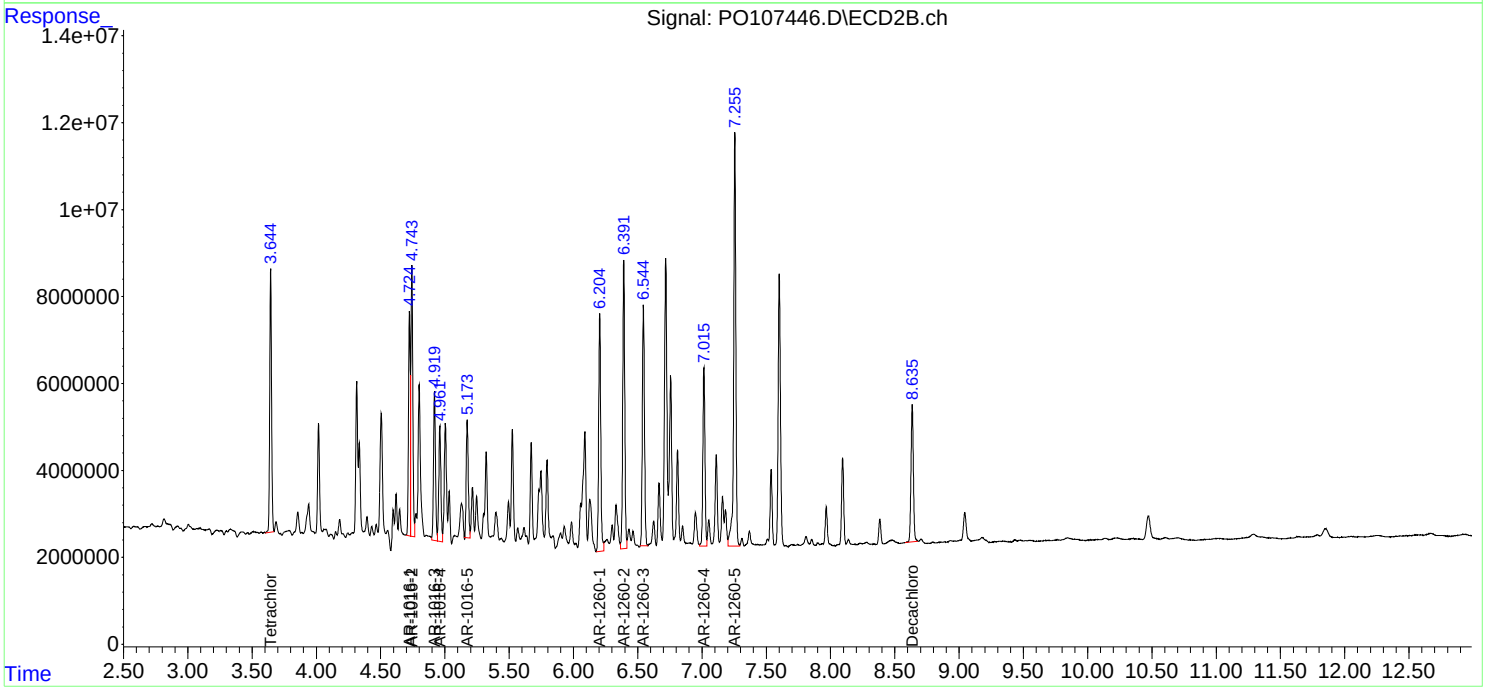
Instrument :
ECD_O
ClientSampleId :
HD-01-102524MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:47:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107447.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 19:46
Operator : YP/AJ
Sample : P4566-01MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
HD-01-102524MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:48:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.371	3.644	150.7E6	61024127	16.531m	18.960
2)	SA Decachlor...	10.058	8.636	41211871	38858415	16.798	14.174
	Target Compounds						
3)	L1 AR-1016-1	5.521	4.725	109.5E6	48617590	405.735m	470.801
4)	L1 AR-1016-2	5.543	4.744	146.6E6	63496317	369.259m	450.431
5)	L1 AR-1016-3	5.605	4.919	95086283	36238545	378.574m	460.197
6)	L1 AR-1016-4	5.702	4.961	81137148	29432498	421.247m	445.216
7)	L1 AR-1016-5	5.995	5.173	82673388	29710168	452.624m	361.729m
31)	L7 AR-1260-1	7.124	6.205	98243450	60008584	379.922	386.766
32)	L7 AR-1260-2	7.380	6.391	109.3E6	72540871	415.108	411.893
33)	L7 AR-1260-3	7.742	6.545	58902638	61421642	327.701	366.154
34)	L7 AR-1260-4	7.966	7.015	67971286	44651259	387.292	308.619
35)	L7 AR-1260-5	8.280	7.256	112.4E6	108.3E6	395.318	328.823

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

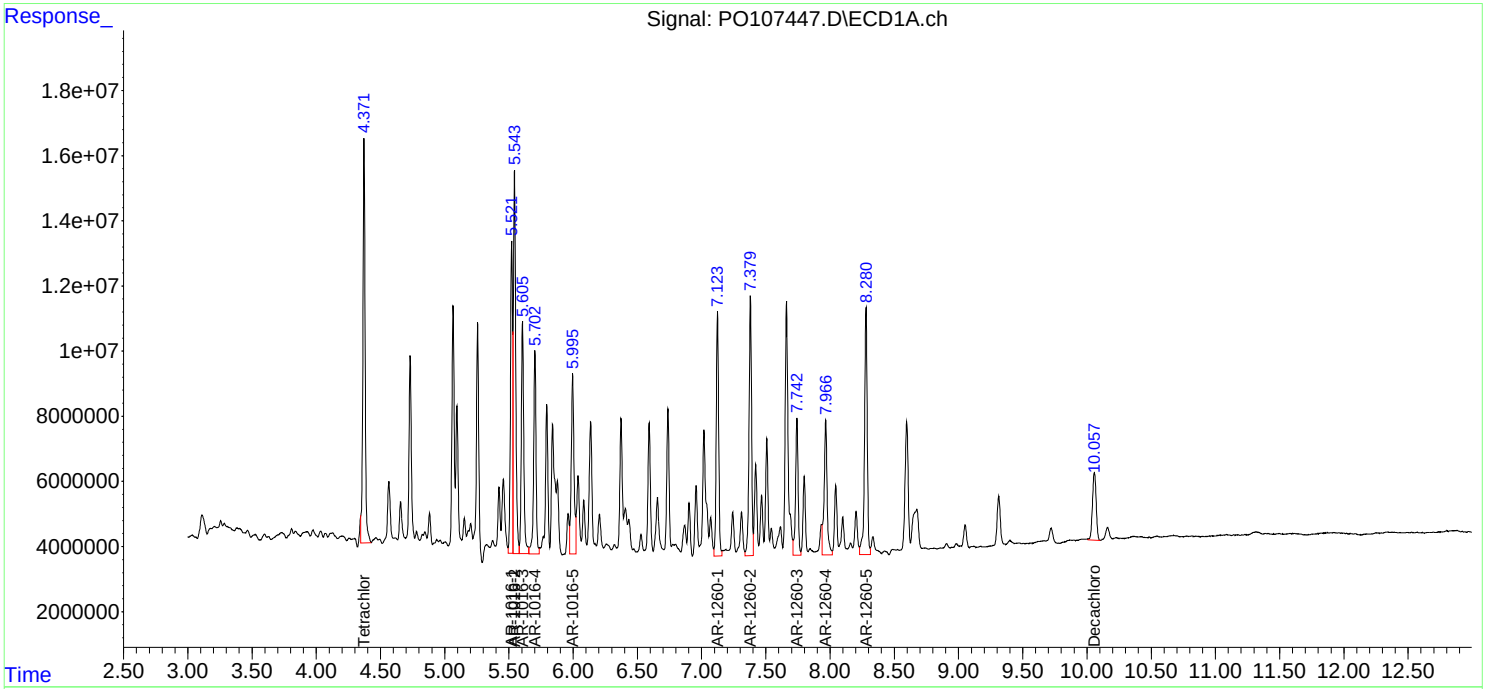
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO102824\
Data File : PO107447.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 19:46
Operator : YP/AJ
Sample : P4566-01MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

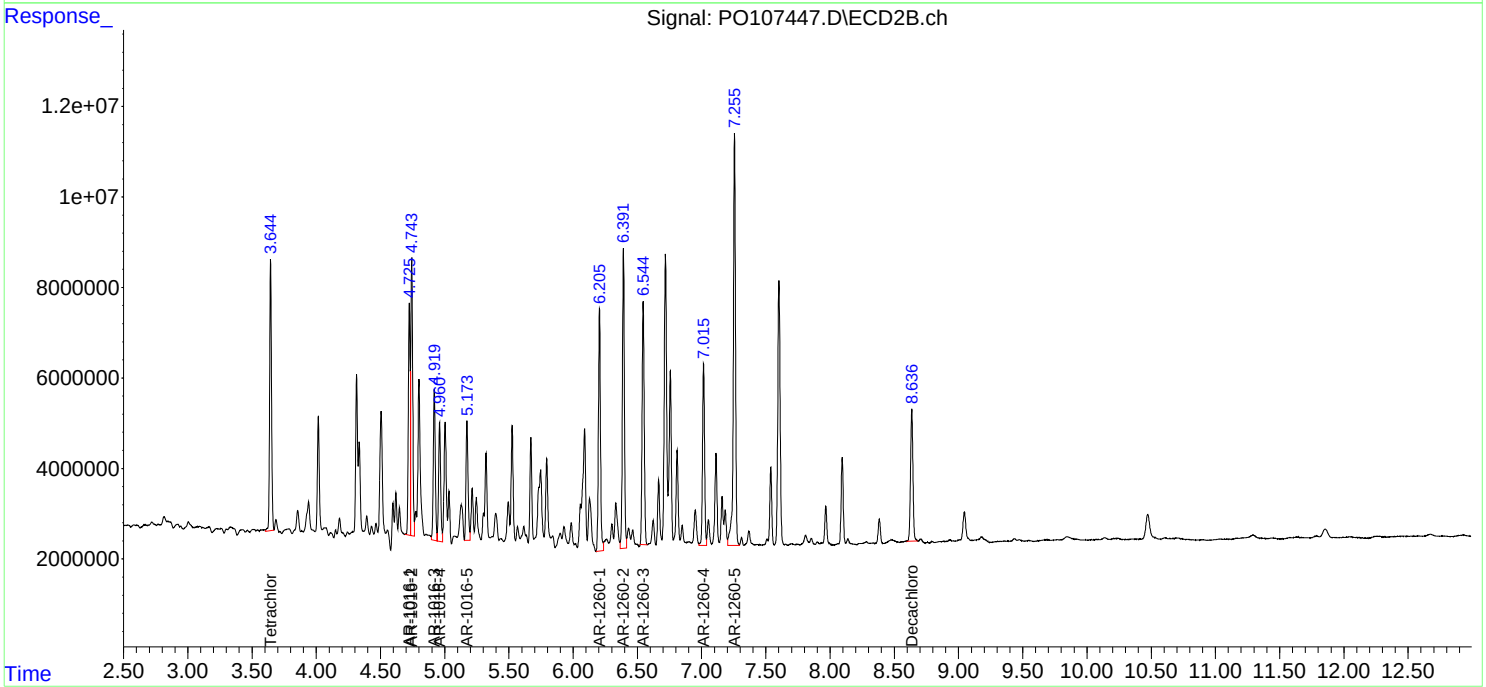
Instrument :
ECD_O
ClientSampleId :
HD-01-102524MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 01:48:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





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Manual Integration Report

Sequence:	po101524	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC050	PO107188.D	AR-1260-1 #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-2 #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-3	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-3 #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-4 #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-5	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-5 #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	Decachlorobiphenyl #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1268ICC050	PO107211.D	AR-1268-1	yogesh	10/16/2024 8:49:03 AM	Ankita	10/16/2024 9:57:36	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO102824	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254CCC500	PO107423.D	AR-1254-2 #2	yogesh	10/29/2024 9:25:31 AM	Ankita	10/29/2024 9:46:17	Peak Integrated by Software
AR1660CCC500	PO107435.D	AR-1016-5 #2	yogesh	10/29/2024 9:25:38 AM	Ankita	10/29/2024 9:46:22	Peak Integrated by Software
AR1248CCC500	PO107438.D	AR-1248-5 #2	yogesh	10/29/2024 9:25:40 AM	Ankita	10/29/2024 9:46:23	Peak Integrated by Software
AR1254CCC500	PO107439.D	AR-1254-2 #2	yogesh	10/29/2024 9:25:42 AM	Ankita	10/29/2024 9:46:24	Peak Integrated by Software
PB164459BS	PO107442.D	AR-1260-3 #2	yogesh	10/29/2024 9:25:44 AM	Ankita	10/29/2024 9:46:26	Peak Integrated by Software
PB164459BS	PO107442.D	AR-1260-4	yogesh	10/29/2024 9:25:44 AM	Ankita	10/29/2024 9:46:26	Peak Integrated by Software
P4566-01MS	PO107446.D	AR-1016-1	yogesh	10/29/2024 9:25:47 AM	Ankita	10/29/2024 9:46:29	Peak Integrated by Software
P4566-01MS	PO107446.D	AR-1016-2	yogesh	10/29/2024 9:25:47 AM	Ankita	10/29/2024 9:46:29	Peak Integrated by Software
P4566-01MS	PO107446.D	AR-1016-3	yogesh	10/29/2024 9:25:47 AM	Ankita	10/29/2024 9:46:29	Peak Integrated by Software
P4566-01MS	PO107446.D	AR-1016-4	yogesh	10/29/2024 9:25:47 AM	Ankita	10/29/2024 9:46:29	Peak Integrated by Software
P4566-01MS	PO107446.D	AR-1016-5	yogesh	10/29/2024 9:25:47 AM	Ankita	10/29/2024 9:46:29	Peak Integrated by Software
P4566-01MS	PO107446.D	Tetrachloro-m-xylene	yogesh	10/29/2024 9:25:47 AM	Ankita	10/29/2024 9:46:29	Peak Integrated by Software
P4566-01MSD	PO107447.D	AR-1016-1	yogesh	10/29/2024 9:25:49 AM	Ankita	10/29/2024 9:46:31	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO102824	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4566-01MSD	PO107447.D	AR-1016-2	yogesh	10/29/2024 9:25:49 AM	Ankita	10/29/2024 9:46:31	Peak Integrated by Software
P4566-01MSD	PO107447.D	AR-1016-3	yogesh	10/29/2024 9:25:49 AM	Ankita	10/29/2024 9:46:31	Peak Integrated by Software
P4566-01MSD	PO107447.D	AR-1016-4	yogesh	10/29/2024 9:25:49 AM	Ankita	10/29/2024 9:46:31	Peak Integrated by Software
P4566-01MSD	PO107447.D	AR-1016-5	yogesh	10/29/2024 9:25:49 AM	Ankita	10/29/2024 9:46:31	Peak Integrated by Software
P4566-01MSD	PO107447.D	AR-1016-5 #2	yogesh	10/29/2024 9:25:49 AM	Ankita	10/29/2024 9:46:31	Peak Integrated by Software
P4566-01MSD	PO107447.D	Tetrachloro-m-xylene	yogesh	10/29/2024 9:25:49 AM	Ankita	10/29/2024 9:46:31	Peak Integrated by Software
AR1242CCC500	PO107452.D	AR-1242-2 #2	yogesh	10/29/2024 1:58:22 PM	Ankita	10/29/2024 1:58:46	Peak Integrated by Software
AR1242CCC500	PO107452.D	AR-1242-3 #2	yogesh	10/29/2024 1:58:22 PM	Ankita	10/29/2024 1:58:46	Peak Integrated by Software
AR1242CCC500	PO107452.D	AR-1242-4 #2	yogesh	10/29/2024 1:58:22 PM	Ankita	10/29/2024 1:58:46	Peak Integrated by Software
AR1242CCC500	PO107452.D	AR-1242-5 #2	yogesh	10/29/2024 1:58:22 PM	Ankita	10/29/2024 1:58:46	Peak Integrated by Software
AR1242CCC500	PO107452.D	Decachlorobiphenyl #2	yogesh	10/29/2024 1:58:22 PM	Ankita	10/29/2024 1:58:46	Peak Integrated by Software
AR1248CCC500	PO107453.D	AR-1248-5 #2	yogesh	10/29/2024 9:25:53 AM	Ankita	10/29/2024 9:46:44	Peak Integrated by Software
AR1254CCC500	PO107454.D	AR-1254-1 #2	yogesh	10/29/2024 9:25:54 AM	Ankita	10/29/2024 9:46:46	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO102824	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254CCC50 0	PO107454.D	AR-1254-2 #2	yogesh	10/29/2024 9:25:54 AM	Ankita	10/29/2024 9:46:46	Peak Integrated by Software
P4578-03	PO107460.D	Tetrachloro-m-xylene	yogesh	10/29/2024 9:25:58 AM	Ankita	10/29/2024 9:46:59	Peak Integrated by Software
P4578-03	PO107460.D	Tetrachloro-m-xylene #2	yogesh	10/29/2024 9:25:58 AM	Ankita	10/29/2024 9:46:59	Peak Integrated by Software
P4578-04	PO107461.D	Tetrachloro-m-xylene	yogesh	10/29/2024 9:25:59 AM	Ankita	10/29/2024 9:47:01	Peak Integrated by Software
P4578-04	PO107461.D	Tetrachloro-m-xylene #2	yogesh	10/29/2024 9:25:59 AM	Ankita	10/29/2024 9:47:01	Peak Integrated by Software
AR1242CCC50 0	PO107465.D	Tetrachloro-m-xylene #2	yogesh	10/29/2024 9:26:01 AM	Ankita	10/29/2024 9:47:02	Peak Integrated by Software
AR1248CCC50 0	PO107466.D	AR-1248-5 #2	yogesh	10/29/2024 9:26:03 AM	Ankita	10/29/2024 9:47:04	Peak Integrated by Software
AR1254CCC50 0	PO107467.D	AR-1254-2 #2	yogesh	10/29/2024 9:26:05 AM	Ankita	10/29/2024 9:47:06	Peak Integrated by Software

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Manual Integration Report

Sequence:	pp100824	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC250	PP067590.D	AR-1016-5 #2	yogesh	10/9/2024 8:24:09 AM	Ankita	10/9/2024 9:46:08	Peak Integrated by Software
AR1660ICC050	PP067591.D	AR-1016-5 #2	yogesh	10/9/2024 8:24:11 AM	Ankita	10/9/2024 9:46:09	Peak Integrated by Software
AR1242ICC500	PP067596.D	Tetrachloro-m-xylene	yogesh	10/9/2024 8:24:13 AM	Ankita	10/9/2024 9:46:11	Peak Integrated by Software
AR1242ICC050	PP067598.D	Tetrachloro-m-xylene	yogesh	10/9/2024 8:24:16 AM	Ankita	10/9/2024 9:46:12	Peak Integrated by Software
AR1254ICC750	PP067605.D	AR-1254-5	yogesh	10/9/2024 8:24:18 AM	Ankita	10/9/2024 9:46:13	Peak Integrated by Software
AR1254ICC500	PP067606.D	AR-1254-5	yogesh	10/9/2024 8:24:20 AM	Ankita	10/9/2024 9:46:15	Peak Integrated by Software
AR1254ICC050	PP067608.D	AR-1254-1	yogesh	10/9/2024 8:24:22 AM	Ankita	10/9/2024 9:48:32	Peak Integrated by Software
AR1254ICC050	PP067608.D	AR-1254-4 #2	yogesh	10/9/2024 8:24:22 AM	Ankita	10/9/2024 9:48:32	Peak Integrated by Software
AR1262ICC500	PP067609.D	AR-1262-3	yogesh	10/9/2024 8:24:24 AM	Ankita	10/9/2024 9:48:33	Peak Integrated by Software
AR1268ICC1000	PP067610.D	AR-1268-1	yogesh	10/9/2024 8:24:27 AM	Ankita	10/9/2024 9:48:35	Peak Integrated by Software
AR1268ICC1000	PP067610.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:27 AM	Ankita	10/9/2024 9:48:35	Peak Integrated by Software
AR1268ICC750	PP067611.D	AR-1268-1	yogesh	10/9/2024 8:24:29 AM	Ankita	10/9/2024 9:48:36	Peak Integrated by Software
AR1268ICC750	PP067611.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:29 AM	Ankita	10/9/2024 9:48:36	Peak Integrated by Software

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Manual Integration Report

Sequence:	pp100824	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1268ICC500	PP067612.D	AR-1268-1	yogesh	10/9/2024 8:24:31 AM	Ankita	10/9/2024 9:48:38	Peak Integrated by Software
AR1268ICC500	PP067612.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:31 AM	Ankita	10/9/2024 9:48:38	Peak Integrated by Software
AR1268ICC250	PP067613.D	AR-1268-1	yogesh	10/9/2024 8:24:33 AM	Ankita	10/9/2024 9:48:39	Peak Integrated by Software
AR1268ICC250	PP067613.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:33 AM	Ankita	10/9/2024 9:48:39	Peak Integrated by Software
AR1268ICC050	PP067614.D	AR-1268-1	yogesh	10/9/2024 8:24:35 AM	Ankita	10/9/2024 9:48:41	Peak Integrated by Software
AR1268ICC050	PP067614.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:35 AM	Ankita	10/9/2024 9:48:41	Peak Integrated by Software
AR1242ICV500	PP067616.D	AR-1242-1 #2	yogesh	10/9/2024 8:24:36 AM	Ankita	10/9/2024 9:48:43	Peak Integrated by Software
AR1242ICV500	PP067616.D	AR-1242-2 #2	yogesh	10/9/2024 8:24:36 AM	Ankita	10/9/2024 9:48:43	Peak Integrated by Software
AR1254ICV500	PP067618.D	AR-1254-4 #2	yogesh	10/9/2024 8:24:38 AM	Ankita	10/9/2024 9:48:44	Peak Integrated by Software
AR1254ICV500	PP067618.D	AR-1254-5	yogesh	10/9/2024 8:24:38 AM	Ankita	10/9/2024 9:48:44	Peak Integrated by Software
AR1268ICV500	PP067619.D	AR-1268-1	yogesh	10/9/2024 8:24:40 AM	Ankita	10/9/2024 9:48:46	Peak Integrated by Software
AR1268ICV500	PP067619.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:40 AM	Ankita	10/9/2024 9:48:46	Peak Integrated by Software

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Manual Integration Report

Sequence:	pp100824	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PP102924	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC50 0	PP068299.D	Decachlorobiphenyl #2	yogesh	10/30/2024 8:38:29 AM	Ankita	10/30/2024 9:17:02	Peak Integrated by Software
AR1242CCC50 0	PP068300.D	Decachlorobiphenyl #2	yogesh	10/30/2024 8:38:30 AM	Ankita	10/30/2024 9:17:03	Peak Integrated by Software
AR1248CCC50 0	PP068301.D	Decachlorobiphenyl #2	yogesh	10/30/2024 8:38:32 AM	Ankita	10/30/2024 9:17:05	Peak Integrated by Software
AR1254CCC50 0	PP068302.D	AR-1254-1	yogesh	10/30/2024 8:38:33 AM	Ankita	10/30/2024 9:17:06	Peak Integrated by Software
AR1254CCC50 0	PP068302.D	AR-1254-5	yogesh	10/30/2024 8:38:33 AM	Ankita	10/30/2024 9:17:06	Peak Integrated by Software
PB164493BS	PP068305.D	AR-1260-4	yogesh	10/30/2024 8:38:35 AM	Ankita	10/30/2024 9:17:07	Peak Integrated by Software
PB164493BSD	PP068306.D	AR-1016-5	yogesh	10/30/2024 8:38:36 AM	Ankita	10/30/2024 9:17:09	Peak Integrated by Software
PB164493BSD	PP068306.D	AR-1260-4	yogesh	10/30/2024 8:38:36 AM	Ankita	10/30/2024 9:17:09	Peak Integrated by Software
AR1248CCC50 0	PP068314.D	AR-1248-1	yogesh	10/30/2024 8:38:41 AM	Ankita	10/30/2024 9:17:14	Peak Integrated by Software
AR1254CCC50 0	PP068315.D	AR-1254-1	yogesh	10/30/2024 8:38:43 AM	Ankita	10/30/2024 9:17:15	Peak Integrated by Software
AR1254CCC50 0	PP068315.D	AR-1254-5	yogesh	10/30/2024 8:38:43 AM	Ankita	10/30/2024 9:17:15	Peak Integrated by Software

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO101524

Review By	yogesh	Review On	10/16/2024 8:49:12 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:57:42 AM		
SubDirectory	PO101524	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PO107180.D	15 Oct 2024 13:05	YP/AJ	Ok
2	AR1660CCC500	PO107181.D	15 Oct 2024 13:23	YP/AJ	Not Ok
3	HEXANE	PO107182.D	15 Oct 2024 17:50	YP/AJ	Ok
4	I.BLK	PO107183.D	15 Oct 2024 18:08	YP/AJ	Ok
5	AR1660ICC1000	PO107184.D	15 Oct 2024 18:27	YP/AJ	Ok
6	AR1660ICC750	PO107185.D	15 Oct 2024 18:45	YP/AJ	Ok
7	AR1660ICC500	PO107186.D	15 Oct 2024 19:03	YP/AJ	Ok
8	AR1660ICC250	PO107187.D	15 Oct 2024 19:21	YP/AJ	Ok
9	AR1660ICC050	PO107188.D	15 Oct 2024 19:39	YP/AJ	Ok,M
10	AR1221ICC500	PO107189.D	15 Oct 2024 19:57	YP/AJ	Ok
11	AR1232ICC500	PO107190.D	15 Oct 2024 20:15	YP/AJ	Ok
12	AR1242ICC1000	PO107191.D	15 Oct 2024 20:34	YP/AJ	Ok
13	AR1242ICC750	PO107192.D	15 Oct 2024 20:52	YP/AJ	Ok
14	AR1242ICC500	PO107193.D	15 Oct 2024 21:10	YP/AJ	Ok
15	AR1242ICC250	PO107194.D	15 Oct 2024 21:28	YP/AJ	Ok
16	AR1242ICC050	PO107195.D	15 Oct 2024 21:46	YP/AJ	Ok
17	AR1248ICC1000	PO107196.D	15 Oct 2024 22:04	YP/AJ	Ok
18	AR1248ICC750	PO107197.D	15 Oct 2024 22:22	YP/AJ	Ok
19	AR1248ICC500	PO107198.D	15 Oct 2024 22:41	YP/AJ	Ok
20	AR1248ICC250	PO107199.D	15 Oct 2024 22:59	YP/AJ	Ok
21	AR1248ICC050	PO107200.D	15 Oct 2024 23:17	YP/AJ	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO101524

Review By	yogesh	Review On	10/16/2024 8:49:12 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:57:42 AM		
SubDirectory	PO101524	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC1000	PO107201.D	15 Oct 2024 23:35	YP/AJ	Ok
23	AR1254ICC750	PO107202.D	15 Oct 2024 23:53	YP/AJ	Ok
24	AR1254ICC500	PO107203.D	16 Oct 2024 00:11	YP/AJ	Ok
25	AR1254ICC250	PO107204.D	16 Oct 2024 00:29	YP/AJ	Ok
26	AR1254ICC050	PO107205.D	16 Oct 2024 00:47	YP/AJ	Ok
27	AR1262ICC500	PO107206.D	16 Oct 2024 01:05	YP/AJ	Ok
28	AR1268ICC1000	PO107207.D	16 Oct 2024 01:23	YP/AJ	Ok
29	AR1268ICC750	PO107208.D	16 Oct 2024 01:41	YP/AJ	Ok
30	AR1268ICC500	PO107209.D	16 Oct 2024 01:59	YP/AJ	Ok
31	AR1268ICC250	PO107210.D	16 Oct 2024 02:18	YP/AJ	Ok
32	AR1268ICC050	PO107211.D	16 Oct 2024 02:36	YP/AJ	Ok,M
33	PO101524ICV500	PO107212.D	16 Oct 2024 02:54	YP/AJ	Ok
34	AR1242ICV500	PO107213.D	16 Oct 2024 03:12	YP/AJ	Ok
35	AR1248ICV500	PO107214.D	16 Oct 2024 03:30	YP/AJ	Ok
36	AR1254ICV500	PO107215.D	16 Oct 2024 03:48	YP/AJ	Ok
37	AR1268ICV500	PO107216.D	16 Oct 2024 04:06	YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO102824

Review By	yogesh	Review On	10/29/2024 9:26:23 AM		
Supervise By	Ankita	Supervise On	10/29/2024 9:47:18 AM		
SubDirectory	PO102824	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	I.BLK	PO107414.D	28 Oct 2024 09:16	YP/AJ	Ok
2	AR1221ICC1000	PO107415.D	28 Oct 2024 09:34	YP/AJ	Ok
3	AR1221ICC750	PO107416.D	28 Oct 2024 09:52	YP/AJ	Ok
4	AR1221ICC500	PO107417.D	28 Oct 2024 10:10	YP/AJ	Ok
5	AR1221ICC250	PO107418.D	28 Oct 2024 10:28	YP/AJ	Ok
6	AR1221ICC050	PO107419.D	28 Oct 2024 10:46	YP/AJ	Ok
7	AR1221ICV500	PO107420.D	28 Oct 2024 11:04	YP/AJ	Ok
8	AR1660CCC500	PO107421.D	28 Oct 2024 11:22	YP/AJ	Ok
9	AR1221CCC500	PO107422.D	28 Oct 2024 11:40	YP/AJ	Ok
10	AR1254CCC500	PO107423.D	28 Oct 2024 11:58	YP/AJ	Ok,M
11	I.BLK	PO107424.D	28 Oct 2024 12:16	YP/AJ	Ok
12	PB164405BL	PO107425.D	28 Oct 2024 12:34	YP/AJ	Ok
13	PB164405BS	PO107426.D	28 Oct 2024 12:52	YP/AJ	Ok
14	P4495-19	PO107427.D	28 Oct 2024 13:10	YP/AJ	Dilution
15	P4495-19DL	PO107428.D	28 Oct 2024 13:28	YP/AJ	Not Ok
16	PB164403BL	PO107429.D	28 Oct 2024 13:46	YP/AJ	Ok
17	P4549-02RE	PO107430.D	28 Oct 2024 14:04	YP/AJ	Confirms
18	P4549-03RE	PO107431.D	28 Oct 2024 14:22	YP/AJ	Confirms
19	P4549-04RE	PO107432.D	28 Oct 2024 14:40	YP/AJ	Confirms
20	P4545-01RE	PO107433.D	28 Oct 2024 14:58	YP/AJ	Confirms
21	P4495-19DL	PO107434.D	28 Oct 2024 15:52	YP/AJ	Ok,M

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO102824

Review By	yogesh	Review On	10/29/2024 9:26:23 AM		
Supervise By	Ankita	Supervise On	10/29/2024 9:47:18 AM		
SubDirectory	PO102824	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1660CCC500	PO107435.D	28 Oct 2024 16:10	YP/AJ	Ok,M
23	AR1221CCC500	PO107436.D	28 Oct 2024 16:28	YP/AJ	Ok
24	AR1242CCC500	PO107437.D	28 Oct 2024 16:46	YP/AJ	Ok
25	AR1248CCC500	PO107438.D	28 Oct 2024 17:04	YP/AJ	Ok,M
26	AR1254CCC500	PO107439.D	28 Oct 2024 17:22	YP/AJ	Ok,M
27	I.BLK	PO107440.D	28 Oct 2024 17:40	YP/AJ	Ok
28	PB164459BL	PO107441.D	28 Oct 2024 17:58	YP/AJ	Ok
29	PB164459BS	PO107442.D	28 Oct 2024 18:16	YP/AJ	Ok,M
30	P4561-01	PO107443.D	28 Oct 2024 18:34	YP/AJ	Ok
31	P4561-05	PO107444.D	28 Oct 2024 18:52	YP/AJ	Ok
32	P4566-01	PO107445.D	28 Oct 2024 19:10	YP/AJ	Ok,M
33	P4566-01MS	PO107446.D	28 Oct 2024 19:28	YP/AJ	Ok,M
34	P4566-01MSD	PO107447.D	28 Oct 2024 19:46	YP/AJ	Ok,M
35	P4567-01	PO107448.D	28 Oct 2024 20:04	YP/AJ	Ok
36	P4567-05	PO107449.D	28 Oct 2024 20:22	YP/AJ	Ok
37	P4567-09	PO107450.D	28 Oct 2024 20:40	YP/AJ	Ok
38	AR1660CCC500	PO107451.D	28 Oct 2024 21:27	YP/AJ	Ok
39	AR1242CCC500	PO107452.D	28 Oct 2024 21:45	YP/AJ	Not Ok
40	AR1248CCC500	PO107453.D	28 Oct 2024 22:03	YP/AJ	Ok,M
41	AR1254CCC500	PO107454.D	28 Oct 2024 22:21	YP/AJ	Ok,M
42	I.BLK	PO107455.D	28 Oct 2024 22:39	YP/AJ	Ok
43	P4574-01	PO107456.D	28 Oct 2024 22:57	YP/AJ	Ok
44	P4574-04	PO107457.D	28 Oct 2024 23:15	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO102824

Review By	yogesh	Review On	10/29/2024 9:26:23 AM		
Supervise By	Ankita	Supervise On	10/29/2024 9:47:18 AM		
SubDirectory	PO102824	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P4575-01	PO107458.D	28 Oct 2024 23:33	YP/AJ	Ok,M
46	P4577-01	PO107459.D	28 Oct 2024 23:51	YP/AJ	Ok
47	P4578-03	PO107460.D	29 Oct 2024 00:09	YP/AJ	Ok,M
48	P4578-04	PO107461.D	29 Oct 2024 00:27	YP/AJ	Ok,M
49	P4578-05	PO107462.D	29 Oct 2024 00:45	YP/AJ	Ok
50	P4578-07	PO107463.D	29 Oct 2024 01:03	YP/AJ	Ok
51	AR1660CCC500	PO107464.D	29 Oct 2024 01:50	YP/AJ	Ok
52	AR1242CCC500	PO107465.D	29 Oct 2024 02:08	YP/AJ	Ok,M
53	AR1248CCC500	PO107466.D	29 Oct 2024 02:26	YP/AJ	Ok,M
54	AR1254CCC500	PO107467.D	29 Oct 2024 02:44	YP/AJ	Ok,M
55	I.BLK	PO107468.D	29 Oct 2024 03:02	YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP067585.D	08 Oct 2024 15:58	YP\AJ	Ok
2	I.BLK	PP067586.D	08 Oct 2024 16:14	YP\AJ	Ok
3	AR1660ICC1000	PP067587.D	08 Oct 2024 16:30	YP\AJ	Ok
4	AR1660ICC750	PP067588.D	08 Oct 2024 16:46	YP\AJ	Ok
5	AR1660ICC500	PP067589.D	08 Oct 2024 17:02	YP\AJ	Ok
6	AR1660ICC250	PP067590.D	08 Oct 2024 17:19	YP\AJ	Ok,M
7	AR1660ICC050	PP067591.D	08 Oct 2024 17:35	YP\AJ	Ok,M
8	AR1221ICC500	PP067592.D	08 Oct 2024 17:51	YP\AJ	Ok
9	AR1232ICC500	PP067593.D	08 Oct 2024 18:07	YP\AJ	Ok
10	AR1242ICC1000	PP067594.D	08 Oct 2024 18:23	YP\AJ	Ok
11	AR1242ICC750	PP067595.D	08 Oct 2024 18:39	YP\AJ	Ok
12	AR1242ICC500	PP067596.D	08 Oct 2024 18:55	YP\AJ	Ok,M
13	AR1242ICC250	PP067597.D	08 Oct 2024 19:12	YP\AJ	Ok
14	AR1242ICC050	PP067598.D	08 Oct 2024 19:28	YP\AJ	Ok,M
15	AR1248ICC1000	PP067599.D	08 Oct 2024 19:44	YP\AJ	Ok
16	AR1248ICC750	PP067600.D	08 Oct 2024 20:00	YP\AJ	Ok
17	AR1248ICC500	PP067601.D	08 Oct 2024 20:16	YP\AJ	Ok
18	AR1248ICC250	PP067602.D	08 Oct 2024 20:32	YP\AJ	Ok
19	AR1248ICC050	PP067603.D	08 Oct 2024 20:49	YP\AJ	Ok
20	AR1254ICC1000	PP067604.D	08 Oct 2024 21:05	YP\AJ	Ok
21	AR1254ICC750	PP067605.D	08 Oct 2024 21:21	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PP067606.D	08 Oct 2024 21:37	YP\AJ	Ok,M
23	AR1254ICC250	PP067607.D	08 Oct 2024 21:53	YP\AJ	Ok
24	AR1254ICC050	PP067608.D	08 Oct 2024 22:09	YP\AJ	Ok,M
25	AR1262ICC500	PP067609.D	08 Oct 2024 22:25	YP\AJ	Ok,M
26	AR1268ICC1000	PP067610.D	08 Oct 2024 22:42	YP\AJ	Ok,M
27	AR1268ICC750	PP067611.D	08 Oct 2024 22:58	YP\AJ	Ok,M
28	AR1268ICC500	PP067612.D	08 Oct 2024 23:14	YP\AJ	Ok,M
29	AR1268ICC250	PP067613.D	08 Oct 2024 23:30	YP\AJ	Ok,M
30	AR1268ICC050	PP067614.D	08 Oct 2024 23:46	YP\AJ	Ok,M
31	PP100824ICV500	PP067615.D	09 Oct 2024 00:02	YP\AJ	Ok
32	AR1242ICV500	PP067616.D	09 Oct 2024 00:18	YP\AJ	Ok,M
33	AR1248ICV500	PP067617.D	09 Oct 2024 00:34	YP\AJ	Ok
34	AR1254ICV500	PP067618.D	09 Oct 2024 00:51	YP\AJ	Ok,M
35	AR1268ICV500	PP067619.D	09 Oct 2024 01:07	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102924

Review By	yogesh	Review On	10/30/2024 8:38:56 AM		
Supervise By	Ankita	Supervise On	10/30/2024 9:17:27 AM		
SubDirectory	PP102924	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP068291.D	29 Oct 2024 09:39	YP\AJ	Ok
2	AR1660CCC500	PP068292.D	29 Oct 2024 09:55	YP\AJ	Ok
3	AR1242CCC500	PP068293.D	29 Oct 2024 10:11	YP\AJ	Ok
4	I.BLK	PP068294.D	29 Oct 2024 10:27	YP\AJ	Ok
5	P4563-01DL	PP068295.D	29 Oct 2024 10:43	YP\AJ	Ok
6	P4563-05DL	PP068296.D	29 Oct 2024 10:59	YP\AJ	Ok,M
7	P4563-06DL	PP068297.D	29 Oct 2024 11:15	YP\AJ	Ok
8	P4563-07DL	PP068298.D	29 Oct 2024 11:31	YP\AJ	Ok
9	AR1660CCC500	PP068299.D	29 Oct 2024 11:47	YP\AJ	Ok,M
10	AR1242CCC500	PP068300.D	29 Oct 2024 12:03	YP\AJ	Ok,M
11	AR1248CCC500	PP068301.D	29 Oct 2024 12:20	YP\AJ	Ok,M
12	AR1254CCC500	PP068302.D	29 Oct 2024 13:29	YP\AJ	Ok,M
13	I.BLK	PP068303.D	29 Oct 2024 13:45	YP\AJ	Ok
14	PB164493BL	PP068304.D	29 Oct 2024 15:16	YP\AJ	Ok
15	PB164493BS	PP068305.D	29 Oct 2024 15:32	YP\AJ	Ok,M
16	PB164493BSD	PP068306.D	29 Oct 2024 15:48	YP\AJ	Ok,M
17	P4564-01	PP068307.D	29 Oct 2024 16:05	YP\AJ	Ok,M
18	P4578-01	PP068308.D	29 Oct 2024 16:21	YP\AJ	Ok
19	P4578-02	PP068309.D	29 Oct 2024 16:37	YP\AJ	Ok
20	P4596-04	PP068310.D	29 Oct 2024 16:53	YP\AJ	Ok
21	P4596-07	PP068311.D	29 Oct 2024 17:10	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102924

Review By	yogesh	Review On	10/30/2024 8:38:56 AM		
Supervise By	Ankita	Supervise On	10/30/2024 9:17:27 AM		
SubDirectory	PP102924	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1660CCC500	PP068312.D	29 Oct 2024 17:47	YP\AJ	Ok
23	AR1242CCC500	PP068313.D	29 Oct 2024 18:04	YP\AJ	Ok
24	AR1248CCC500	PP068314.D	29 Oct 2024 18:20	YP\AJ	Ok,M
25	AR1254CCC500	PP068315.D	29 Oct 2024 18:36	YP\AJ	Ok,M
26	I.BLK	PP068316.D	29 Oct 2024 18:53	YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP
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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO101524

Review By	yogesh	Review On	10/16/2024 8:49:12 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:57:42 AM		
SubDirectory	PO101524	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PO107180.D	15 Oct 2024 13:05		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO107181.D	15 Oct 2024 13:23	need ICAL	YP/AJ	Not Ok
3	HEXANE	HEXANE	PO107182.D	15 Oct 2024 17:50		YP/AJ	Ok
4	I.BLK	I.BLK	PO107183.D	15 Oct 2024 18:08		YP/AJ	Ok
5	AR1660ICC1000	AR1660ICC1000	PO107184.D	15 Oct 2024 18:27		YP/AJ	Ok
6	AR1660ICC750	AR1660ICC750	PO107185.D	15 Oct 2024 18:45		YP/AJ	Ok
7	AR1660ICC500	AR1660ICC500	PO107186.D	15 Oct 2024 19:03		YP/AJ	Ok
8	AR1660ICC250	AR1660ICC250	PO107187.D	15 Oct 2024 19:21		YP/AJ	Ok
9	AR1660ICC050	AR1660ICC050	PO107188.D	15 Oct 2024 19:39		YP/AJ	Ok,M
10	AR1221ICC500	AR1221ICC500	PO107189.D	15 Oct 2024 19:57		YP/AJ	Ok
11	AR1232ICC500	AR1232ICC500	PO107190.D	15 Oct 2024 20:15		YP/AJ	Ok
12	AR1242ICC1000	AR1242ICC1000	PO107191.D	15 Oct 2024 20:34		YP/AJ	Ok
13	AR1242ICC750	AR1242ICC750	PO107192.D	15 Oct 2024 20:52		YP/AJ	Ok
14	AR1242ICC500	AR1242ICC500	PO107193.D	15 Oct 2024 21:10		YP/AJ	Ok
15	AR1242ICC250	AR1242ICC250	PO107194.D	15 Oct 2024 21:28		YP/AJ	Ok
16	AR1242ICC050	AR1242ICC050	PO107195.D	15 Oct 2024 21:46		YP/AJ	Ok
17	AR1248ICC1000	AR1248ICC1000	PO107196.D	15 Oct 2024 22:04		YP/AJ	Ok
18	AR1248ICC750	AR1248ICC750	PO107197.D	15 Oct 2024 22:22		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO101524

Review By	yogesh	Review On	10/16/2024 8:49:12 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:57:42 AM		
SubDirectory	PO101524	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC500	AR1248ICC500	PO107198.D	15 Oct 2024 22:41		YP/AJ	Ok
20	AR1248ICC250	AR1248ICC250	PO107199.D	15 Oct 2024 22:59		YP/AJ	Ok
21	AR1248ICC050	AR1248ICC050	PO107200.D	15 Oct 2024 23:17		YP/AJ	Ok
22	AR1254ICC1000	AR1254ICC1000	PO107201.D	15 Oct 2024 23:35		YP/AJ	Ok
23	AR1254ICC750	AR1254ICC750	PO107202.D	15 Oct 2024 23:53		YP/AJ	Ok
24	AR1254ICC500	AR1254ICC500	PO107203.D	16 Oct 2024 00:11		YP/AJ	Ok
25	AR1254ICC250	AR1254ICC250	PO107204.D	16 Oct 2024 00:29		YP/AJ	Ok
26	AR1254ICC050	AR1254ICC050	PO107205.D	16 Oct 2024 00:47		YP/AJ	Ok
27	AR1262ICC500	AR1262ICC500	PO107206.D	16 Oct 2024 01:05		YP/AJ	Ok
28	AR1268ICC1000	AR1268ICC1000	PO107207.D	16 Oct 2024 01:23		YP/AJ	Ok
29	AR1268ICC750	AR1268ICC750	PO107208.D	16 Oct 2024 01:41		YP/AJ	Ok
30	AR1268ICC500	AR1268ICC500	PO107209.D	16 Oct 2024 01:59		YP/AJ	Ok
31	AR1268ICC250	AR1268ICC250	PO107210.D	16 Oct 2024 02:18		YP/AJ	Ok
32	AR1268ICC050	AR1268ICC050	PO107211.D	16 Oct 2024 02:36		YP/AJ	Ok,M
33	PO101524ICV500	ICVPO101524	PO107212.D	16 Oct 2024 02:54		YP/AJ	Ok
34	AR1242ICV500	ICVPO101524AR1242	PO107213.D	16 Oct 2024 03:12		YP/AJ	Ok
35	AR1248ICV500	ICVPO101524AR1248	PO107214.D	16 Oct 2024 03:30		YP/AJ	Ok
36	AR1254ICV500	ICVPO101524AR1254	PO107215.D	16 Oct 2024 03:48		YP/AJ	Ok
37	AR1268ICV500	ICVPO101524AR1268	PO107216.D	16 Oct 2024 04:06		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO101524

Review By	yogesh	Review On	10/16/2024 8:49:12 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:57:42 AM		
SubDirectory	PO101524	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO102824

Review By	yogesh	Review On	10/29/2024 9:26:23 AM		
Supervise By	Ankita	Supervise On	10/29/2024 9:47:18 AM		
SubDirectory	PO102824	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	I.BLK	I.BLK	PO107414.D	28 Oct 2024 09:16		YP/AJ	Ok
2	AR1221ICC1000	AR1221ICC1000	PO107415.D	28 Oct 2024 09:34		YP/AJ	Ok
3	AR1221ICC750	AR1221ICC750	PO107416.D	28 Oct 2024 09:52		YP/AJ	Ok
4	AR1221ICC500	AR1221ICC500	PO107417.D	28 Oct 2024 10:10		YP/AJ	Ok
5	AR1221ICC250	AR1221ICC250	PO107418.D	28 Oct 2024 10:28		YP/AJ	Ok
6	AR1221ICC050	AR1221ICC050	PO107419.D	28 Oct 2024 10:46		YP/AJ	Ok
7	AR1221ICV500	ICVPO102824	PO107420.D	28 Oct 2024 11:04		YP/AJ	Ok
8	AR1660CCC500	AR1660CCC500	PO107421.D	28 Oct 2024 11:22		YP/AJ	Ok
9	AR1221CCC500	AR1221CCC500	PO107422.D	28 Oct 2024 11:40		YP/AJ	Ok
10	AR1254CCC500	AR1254CCC500	PO107423.D	28 Oct 2024 11:58		YP/AJ	Ok,M
11	I.BLK	I.BLK	PO107424.D	28 Oct 2024 12:16		YP/AJ	Ok
12	PB164405BL	PB164405BL	PO107425.D	28 Oct 2024 12:34		YP/AJ	Ok
13	PB164405BS	PB164405BS	PO107426.D	28 Oct 2024 12:52		YP/AJ	Ok
14	P4495-19	PT-PCBO-SOIL	PO107427.D	28 Oct 2024 13:10	AR1221 hit-need 5X	YP/AJ	Dilution
15	P4495-19DL	PT-PCBO-SOILDL	PO107428.D	28 Oct 2024 13:28	AR1221 hit,dilution not match	YP/AJ	Not Ok
16	PB164403BL	PB164403BL	PO107429.D	28 Oct 2024 13:46		YP/AJ	Ok
17	P4549-02RE	TT-067-IDWGW-20241	PO107430.D	28 Oct 2024 14:04	DCB low in both column	YP/AJ	Confirms
18	P4549-03RE	TT-068-IDWGW-20241	PO107431.D	28 Oct 2024 14:22	DCB low in both column	YP/AJ	Confirms

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO102824

Review By	yogesh	Review On	10/29/2024 9:26:23 AM		
Supervise By	Ankita	Supervise On	10/29/2024 9:47:18 AM		
SubDirectory	PO102824	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4549-04RE	TT-069-IDWGW-20241	PO107432.D	28 Oct 2024 14:40	DCB low in both column	YP/AJ	Confirms
20	P4545-01RE	VNJ-215RE	PO107433.D	28 Oct 2024 14:58	AR1254& 1260 Hit, DCB high in both column	YP/AJ	Confirms
21	P4495-19DL	PT-PCBO-SOILDL	PO107434.D	28 Oct 2024 15:52	AR1221 Hit	YP/AJ	Ok,M
22	AR1660CCC500	AR1660CCC500	PO107435.D	28 Oct 2024 16:10		YP/AJ	Ok,M
23	AR1221CCC500	AR1221CCC500	PO107436.D	28 Oct 2024 16:28		YP/AJ	Ok
24	AR1242CCC500	AR1242CCC500	PO107437.D	28 Oct 2024 16:46		YP/AJ	Ok
25	AR1248CCC500	AR1248CCC500	PO107438.D	28 Oct 2024 17:04		YP/AJ	Ok,M
26	AR1254CCC500	AR1254CCC500	PO107439.D	28 Oct 2024 17:22		YP/AJ	Ok,M
27	I.BLK	I.BLK	PO107440.D	28 Oct 2024 17:40		YP/AJ	Ok
28	PB164459BL	PB164459BL	PO107441.D	28 Oct 2024 17:58		YP/AJ	Ok
29	PB164459BS	PB164459BS	PO107442.D	28 Oct 2024 18:16		YP/AJ	Ok,M
30	P4561-01	BP-F-19	PO107443.D	28 Oct 2024 18:34		YP/AJ	Ok
31	P4561-05	BP-F-18	PO107444.D	28 Oct 2024 18:52		YP/AJ	Ok
32	P4566-01	HD-01-102524	PO107445.D	28 Oct 2024 19:10		YP/AJ	Ok,M
33	P4566-01MS	HD-01-102524MS	PO107446.D	28 Oct 2024 19:28		YP/AJ	Ok,M
34	P4566-01MSD	HD-01-102524MSD	PO107447.D	28 Oct 2024 19:46		YP/AJ	Ok,M
35	P4567-01	WC-1	PO107448.D	28 Oct 2024 20:04		YP/AJ	Ok
36	P4567-05	WC-2	PO107449.D	28 Oct 2024 20:22		YP/AJ	Ok
37	P4567-09	WC-3	PO107450.D	28 Oct 2024 20:40		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO102824

Review By	yogesh	Review On	10/29/2024 9:26:23 AM		
Supervise By	Ankita	Supervise On	10/29/2024 9:47:18 AM		
SubDirectory	PO102824	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	AR1660CCC500	AR1660CCC500	PO107451.D	28 Oct 2024 21:27	AR1016 - comp#3 low in 1st column , DCB low in 2nd column	YP/AJ	Ok
39	AR1242CCC500	AR1242CCC500	PO107452.D	28 Oct 2024 21:45	F flag in TCMX , DCB low in 2nd column , Comp#3,4 low in 1st column , Comp#4,5 low in 2nd column	YP/AJ	Not Ok
40	AR1248CCC500	AR1248CCC500	PO107453.D	28 Oct 2024 22:03	Comp#3 low in 1st column	YP/AJ	Ok,M
41	AR1254CCC500	AR1254CCC500	PO107454.D	28 Oct 2024 22:21	Comp#1 low in 1st column	YP/AJ	Ok,M
42	I.BLK	I.BLK	PO107455.D	28 Oct 2024 22:39		YP/AJ	Ok
43	P4574-01	GRAVEL-1	PO107456.D	28 Oct 2024 22:57		YP/AJ	Ok
44	P4574-04	GRAVEL-2	PO107457.D	28 Oct 2024 23:15		YP/AJ	Ok
45	P4575-01	PL-02-102424	PO107458.D	28 Oct 2024 23:33		YP/AJ	Ok,M
46	P4577-01	TR-05-102524	PO107459.D	28 Oct 2024 23:51		YP/AJ	Ok
47	P4578-03	WB-305-TOP	PO107460.D	29 Oct 2024 00:09		YP/AJ	Ok,M
48	P4578-04	WB-305-TOP-1	PO107461.D	29 Oct 2024 00:27		YP/AJ	Ok,M
49	P4578-05	WB-305-BOT	PO107462.D	29 Oct 2024 00:45		YP/AJ	Ok
50	P4578-07	WB-305-BOT-1	PO107463.D	29 Oct 2024 01:03		YP/AJ	Ok
51	AR1660CCC500	AR1660CCC500	PO107464.D	29 Oct 2024 01:50		YP/AJ	Ok
52	AR1242CCC500	AR1242CCC500	PO107465.D	29 Oct 2024 02:08		YP/AJ	Ok,M
53	AR1248CCC500	AR1248CCC500	PO107466.D	29 Oct 2024 02:26		YP/AJ	Ok,M
54	AR1254CCC500	AR1254CCC500	PO107467.D	29 Oct 2024 02:44		YP/AJ	Ok,M
55	I.BLK	I.BLK	PO107468.D	29 Oct 2024 03:02		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO102824

Review By	yogesh	Review On	10/29/2024 9:26:23 AM		
Supervise By	Ankita	Supervise On	10/29/2024 9:47:18 AM		
SubDirectory	PO102824	HP Acquire Method		HP Processing Method	PO101524

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP067585.D	08 Oct 2024 15:58		YP\AJ	Ok
2	I.BLK	I.BLK	PP067586.D	08 Oct 2024 16:14		YP\AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP067587.D	08 Oct 2024 16:30		YP\AJ	Ok
4	AR1660ICC750	AR1660ICC750	PP067588.D	08 Oct 2024 16:46		YP\AJ	Ok
5	AR1660ICC500	AR1660ICC500	PP067589.D	08 Oct 2024 17:02		YP\AJ	Ok
6	AR1660ICC250	AR1660ICC250	PP067590.D	08 Oct 2024 17:19		YP\AJ	Ok,M
7	AR1660ICC050	AR1660ICC050	PP067591.D	08 Oct 2024 17:35		YP\AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP067592.D	08 Oct 2024 17:51		YP\AJ	Ok
9	AR1232ICC500	AR1232ICC500	PP067593.D	08 Oct 2024 18:07		YP\AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PP067594.D	08 Oct 2024 18:23		YP\AJ	Ok
11	AR1242ICC750	AR1242ICC750	PP067595.D	08 Oct 2024 18:39		YP\AJ	Ok
12	AR1242ICC500	AR1242ICC500	PP067596.D	08 Oct 2024 18:55		YP\AJ	Ok,M
13	AR1242ICC250	AR1242ICC250	PP067597.D	08 Oct 2024 19:12		YP\AJ	Ok
14	AR1242ICC050	AR1242ICC050	PP067598.D	08 Oct 2024 19:28		YP\AJ	Ok,M
15	AR1248ICC1000	AR1248ICC1000	PP067599.D	08 Oct 2024 19:44		YP\AJ	Ok
16	AR1248ICC750	AR1248ICC750	PP067600.D	08 Oct 2024 20:00		YP\AJ	Ok
17	AR1248ICC500	AR1248ICC500	PP067601.D	08 Oct 2024 20:16		YP\AJ	Ok
18	AR1248ICC250	AR1248ICC250	PP067602.D	08 Oct 2024 20:32		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PP067603.D	08 Oct 2024 20:49		YP\AJ	Ok
20	AR1254ICC1000	AR1254ICC1000	PP067604.D	08 Oct 2024 21:05		YP\AJ	Ok
21	AR1254ICC750	AR1254ICC750	PP067605.D	08 Oct 2024 21:21		YP\AJ	Ok,M
22	AR1254ICC500	AR1254ICC500	PP067606.D	08 Oct 2024 21:37		YP\AJ	Ok,M
23	AR1254ICC250	AR1254ICC250	PP067607.D	08 Oct 2024 21:53		YP\AJ	Ok
24	AR1254ICC050	AR1254ICC050	PP067608.D	08 Oct 2024 22:09		YP\AJ	Ok,M
25	AR1262ICC500	AR1262ICC500	PP067609.D	08 Oct 2024 22:25		YP\AJ	Ok,M
26	AR1268ICC1000	AR1268ICC1000	PP067610.D	08 Oct 2024 22:42		YP\AJ	Ok,M
27	AR1268ICC750	AR1268ICC750	PP067611.D	08 Oct 2024 22:58		YP\AJ	Ok,M
28	AR1268ICC500	AR1268ICC500	PP067612.D	08 Oct 2024 23:14		YP\AJ	Ok,M
29	AR1268ICC250	AR1268ICC250	PP067613.D	08 Oct 2024 23:30		YP\AJ	Ok,M
30	AR1268ICC050	AR1268ICC050	PP067614.D	08 Oct 2024 23:46		YP\AJ	Ok,M
31	PP100824ICV500	ICVPP100824	PP067615.D	09 Oct 2024 00:02		YP\AJ	Ok
32	AR1242ICV500	ICVPP100824AR1242	PP067616.D	09 Oct 2024 00:18		YP\AJ	Ok,M
33	AR1248ICV500	ICVPP100824AR1248	PP067617.D	09 Oct 2024 00:34		YP\AJ	Ok
34	AR1254ICV500	ICVPP100824AR1254	PP067618.D	09 Oct 2024 00:51		YP\AJ	Ok,M
35	AR1268ICV500	ICVPP100824AR1268	PP067619.D	09 Oct 2024 01:07		YP\AJ	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102924

Review By	yogesh	Review On	10/30/2024 8:38:56 AM		
Supervise By	Ankita	Supervise On	10/30/2024 9:17:27 AM		
SubDirectory	PP102924	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP068291.D	29 Oct 2024 09:39		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP068292.D	29 Oct 2024 09:55		YP\AJ	Ok
3	AR1242CCC500	AR1242CCC500	PP068293.D	29 Oct 2024 10:11		YP\AJ	Ok
4	I.BLK	I.BLK	PP068294.D	29 Oct 2024 10:27		YP\AJ	Ok
5	P4563-01DL	100724-ADL	PP068295.D	29 Oct 2024 10:43		YP\AJ	Ok
6	P4563-05DL	100824-ADL	PP068296.D	29 Oct 2024 10:59		YP\AJ	Ok,M
7	P4563-06DL	100924-ADL	PP068297.D	29 Oct 2024 11:15		YP\AJ	Ok
8	P4563-07DL	100924-BDL	PP068298.D	29 Oct 2024 11:31		YP\AJ	Ok
9	AR1660CCC500	AR1660CCC500	PP068299.D	29 Oct 2024 11:47		YP\AJ	Ok,M
10	AR1242CCC500	AR1242CCC500	PP068300.D	29 Oct 2024 12:03		YP\AJ	Ok,M
11	AR1248CCC500	AR1248CCC500	PP068301.D	29 Oct 2024 12:20		YP\AJ	Ok,M
12	AR1254CCC500	AR1254CCC500	PP068302.D	29 Oct 2024 13:29		YP\AJ	Ok,M
13	I.BLK	I.BLK	PP068303.D	29 Oct 2024 13:45		YP\AJ	Ok
14	PB164493BL	PB164493BL	PP068304.D	29 Oct 2024 15:16		YP\AJ	Ok
15	PB164493BS	PB164493BS	PP068305.D	29 Oct 2024 15:32		YP\AJ	Ok,M
16	PB164493BSD	PB164493BSD	PP068306.D	29 Oct 2024 15:48		YP\AJ	Ok,M
17	P4564-01	100324	PP068307.D	29 Oct 2024 16:05	TCMX high in 2nd column	YP\AJ	Ok,M
18	P4578-01	WB-305-SW	PP068308.D	29 Oct 2024 16:21		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102924

Review By	yogesh	Review On	10/30/2024 8:38:56 AM		
Supervise By	Ankita	Supervise On	10/30/2024 9:17:27 AM		
SubDirectory	PP102924	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4578-02	WB-305-SW-1	PP068309.D	29 Oct 2024 16:37		YP\AJ	Ok
20	P4596-04	DL-1	PP068310.D	29 Oct 2024 16:53		YP\AJ	Ok
21	P4596-07	TOTE-WATER-COMP	PP068311.D	29 Oct 2024 17:10		YP\AJ	Ok,M
22	AR1660CCC500	AR1660CCC500	PP068312.D	29 Oct 2024 17:47		YP\AJ	Ok
23	AR1242CCC500	AR1242CCC500	PP068313.D	29 Oct 2024 18:04		YP\AJ	Ok
24	AR1248CCC500	AR1248CCC500	PP068314.D	29 Oct 2024 18:20		YP\AJ	Ok,M
25	AR1254CCC500	AR1254CCC500	PP068315.D	29 Oct 2024 18:36		YP\AJ	Ok,M
26	I.BLK	I.BLK	PP068316.D	29 Oct 2024 18:53		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164459

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	10/28/2024
Matrix :	Solid			**Extraction Start Time :**	08:30
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	10/28/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:30
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP23640
Surrogate	1.0ML	200 PPB	PP23858
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Hexane/Acetone/1:1	N/A	EP2539
Baked Na2SO4	N/A	EP2554
Hexane	N/A	E3819
Sand	N/A	E2865
H2SO4 1:1	N/A	EP2548
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40BTS721.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/24	RP (Ext Lab)	SR. Pest/PCB Lab
11:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164459

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/28/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164459BL	ABLK459	PCB	30.01	N/A	ritesh	Evelyn	10			U7-1
PB164459BS	ALCS459	PCB	30.02	N/A	ritesh	Evelyn	10			2
P4561-01	BP-F-19	PCB	30.04	N/A	ritesh	Evelyn	10	B		3
P4561-05	BP-F-18	PCB	30.02	N/A	ritesh	Evelyn	10	B		4
P4566-01	HD-01-102524	PCB	30.05	N/A	ritesh	Evelyn	10	E		5
P4566-01MS	HD-01-102524MS	PCB	30.06	N/A	ritesh	Evelyn	10	E		6
P4566-01MSD	HD-01-102524MSD	PCB	30.08	N/A	ritesh	Evelyn	10	E		U5-1
P4567-01	WC-1	PCB	30.03	N/A	ritesh	Evelyn	10	B		2
P4567-05	WC-2	PCB	30.04	N/A	ritesh	Evelyn	10	B		3
P4567-09	WC-3	PCB	30.06	N/A	ritesh	Evelyn	10	B		4
P4574-01	GRAVEL-1	PCB	30.09	N/A	ritesh	Evelyn	10	E	Stone	5
P4574-04	GRAVEL-2	PCB	30.05	N/A	ritesh	Evelyn	10	E	Stone	6
P4575-01	PL-02-102424	PCB	30.07	N/A	ritesh	Evelyn	10	E		U6-1
P4577-01	TR-05-102524	PCB	30.01	N/A	ritesh	Evelyn	10	E		2
P4578-03	WB-305-TOP	PCB	30.03	N/A	ritesh	Evelyn	10	E		3
P4578-04	WB-305-TOP-1	PCB	30.08	N/A	ritesh	Evelyn	10	E		4
P4578-05	WB-305-BOT	PCB	30.02	N/A	ritesh	Evelyn	10	E		5
P4578-07	WB-305-BOT-1	PCB	30.04	N/A	ritesh	Evelyn	10	E		6

* **Extracts relinquished on the same date as received.**

10/28/24

10/28/24 8:30

4578

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4561 **WorkList ID :** 184849 **Department :** Extraction **Date :** 10-28-2024 08:22:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4561-01	BP-F-19	Solid	PCB	Cool 4 deg C	PSEG03	K63	10/25/2024	8082A
P4561-05	BP-F-18	Solid	PCB	Cool 4 deg C	PSEG03	K63	10/25/2024	8082A
P4566-01	HD-01-102524	Solid	PCB	Cool 4 deg C	PSEG05	K63	10/25/2024	8082A
P4567-01	WC-1	Solid	PCB	Cool 4 deg C	PSEG03	K61	10/25/2024	8082A
P4567-05	WC-2	Solid	PCB	Cool 4 deg C	PSEG03	K61	10/25/2024	8082A
P4567-09	WC-3	Solid	PCB	Cool 4 deg C	PSEG03	K61	10/25/2024	8082A
P4574-01	GRAVEL-1	Solid	PCB	Cool 4 deg C	PSEG03	K63	10/25/2024	8082A
P4574-04	GRAVEL-2	Solid	PCB	Cool 4 deg C	PSEG03	K63	10/25/2024	8082A
P4575-01	PL-02-102424	Solid	PCB	Cool 4 deg C	PSEG05	K63	10/25/2024	8082A
P4577-01	TR-05-102524	Solid	PCB	Cool 4 deg C	PSEG05	K63	10/25/2024	8082A
P4578-03	WB-305-TOP	Solid	PCB	Cool 4 deg C	PORT06	K63	10/25/2024	8082A
P4578-04	WB-305-TOP-1	Solid	PCB	Cool 4 deg C	PORT06	K63	10/25/2024	8082A
P4578-05	WB-305-BOT	Solid	PCB	Cool 4 deg C	PORT06	K63	10/25/2024	8082A
P4578-07	WB-305-BOT-1	Solid	PCB	Cool 4 deg C	PORT06	K63	10/25/2024	8082A

1054 of 1713

Date/Time 10/28/24 8:25
Raw Sample Received by: RJ (Set 1 of 2)
Raw Sample Relinquished by: JDCSM

Date/Time 10/28/24 9:00
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: RJ (Set 1 of 2)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164493

SOP ID:	M3510C,3580A-Extraction PCB-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	10/29/2024
Matrix :	Water			**Extraction Start Time :**	08:50
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	10/29/2024
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	13:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3574	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	200 PPB	PP23858
Spike Sol 1	1.0ML	5000 PPB	PP23640
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3822
Baked Na2SO4	N/A	EP2546
Hexane	N/A	E3819
H2SO4 1:1	N/A	EP2524
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721. P4578-01,02 Limited volume recd.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/29/24	RP (East Lab)	Y-P-Pest/PCB.
13:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164493

Analytical Method: M3510C,3580A-Extraction PCB-14

Concentration Date: 10/25/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164493BL	ABLK493	PCB	1000	6	ritesh	rajesh	10			SEP-1
PB164493BS	ALCS493	PCB	1000	6	ritesh	rajesh	10			2
PB164493BSD	ALCSD493	PCB	1000	6	ritesh	rajesh	10			3
P4564-01	100324	PCB	1000	6	ritesh	rajesh	10	B		4
P4578-01	WB-305-SW	PCB	490	6	ritesh	rajesh	5	C		5
P4578-02	WB-305-SW-1	PCB	490	6	ritesh	rajesh	5	C		6
P4596-04	DL-1	PCB	1000	6	ritesh	rajesh	10	C		7
P4596-07	TOTE-WATER-COMP	PCB	990	6	ritesh	rajesh	10	E		8

* **Extracts relinquished on the same date as received.**

10/25/24

P4578

P4564 8:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4564PCB **WorkList ID :** 184894 **Department :** Extraction **Date :** 10-29-2024 08:41:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4564-01	100324	Water	PCB	Cool 4 deg C	PSEG03	K63	10/25/2024	8082A
P4578-01	WB-305-SW	Water	PCB	Cool 4 deg C	PORT06	K63	10/25/2024	8082A
P4578-02	WB-305-SW-1	Water	PCB	Cool 4 deg C	PORT06	K63	10/25/2024	8082A
P4596-04	DL-1	Water	PCB	Cool 4 deg C	PSEG03	K61	10/28/2024	8082A
P4596-07	TOTE-WATER-COMP	Water	PCB	Cool 4 deg C	PSEG03	K61	10/28/2024	8082A

1057 of 1713

Date/Time 10/29/24 8:45

Raw Sample Received by: KJ CSolt (44)

Raw Sample Relinquished by: CA SM

Date/Time 10/29/24 8:30

Raw Sample Received by: CA SM

Raw Sample Relinquished by: KJ CSolt (44)

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LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	**WB-305-SW**	**WATER**			**10/25/24**			**10/25/24**
			PCB	8082A		10/29/24	10/29/24	
P4578-02	**WB-305-SW-1**	**WATER**			**10/25/24**			**10/25/24**
			PCB	8082A		10/29/24	10/29/24	
P4578-03	**WB-305-TOP**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
P4578-04	**WB-305-TOP-1**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
P4578-05	**WB-305-BOT**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
P4578-07	**WB-305-BOT-1**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	

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Hit Summary Sheet
SW-846

SDG No.: P4578 **Order ID:** P4578

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-06	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028265.D	1	10/28/24 08:45	11/06/24 15:23	PB164519

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	338	*	70 (39) - 130 (175)	68%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-08	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028293.D	1	10/28/24 08:45	11/07/24 03:04	PB164519

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	367		70 (39) - 130 (175)	73%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/28/24
Client Sample ID:	PB164393TB	SDG No.:	P4578
Lab Sample ID:	PB164393TB	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028345.D	1	10/28/24 08:45	11/08/24 01:05	PB164519

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	376		70 (39) - 130 (175)	75%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS028252.D	PIBLK-PS028252.D	2,4-DCAA	1	500	489	98		70 (39)	130 (175)
		2,4-DCAA	2	500	491	98		70 (39)	130 (175)
I.BLK-PS028259.D	PIBLK-PS028259.D	2,4-DCAA	1	500	501	100		70 (39)	130 (175)
		2,4-DCAA	2	500	506	101		70 (39)	130 (175)
PB164519BL	PB164519BL	2,4-DCAA	1	500	561	112		70 (39)	130 (175)
		2,4-DCAA	2	500	538	108		70 (39)	130 (175)
PB164519BS	PB164519BS	2,4-DCAA	1	500	541	108		70 (39)	130 (175)
		2,4-DCAA	2	500	530	106		70 (39)	130 (175)
P4578-06	WB-305-BOT	2,4-DCAA	1	500	338	68	*	70 (39)	130 (175)
		2,4-DCAA	2	500	278	56	*	70 (39)	130 (175)
I.BLK-PS028271.D	PIBLK-PS028271.D	2,4-DCAA	1	500	519	104		70 (39)	130 (175)
		2,4-DCAA	2	500	516	103		70 (39)	130 (175)
I.BLK-PS028283.D	PIBLK-PS028283.D	2,4-DCAA	1	500	529	106		70 (39)	130 (175)
		2,4-DCAA	2	500	516	103		70 (39)	130 (175)
P4578-06MS	WB-305-BOTMS	2,4-DCAA	1	500	356	71		70 (39)	130 (175)
		2,4-DCAA	2	500	289	58	*	70 (39)	130 (175)
P4578-06MSD	WB-305-BOTMSD	2,4-DCAA	1	500	364	73		70 (39)	130 (175)
		2,4-DCAA	2	500	300	60	*	70 (39)	130 (175)
P4578-08	WB-305-BOT-1	2,4-DCAA	1	500	367	73		70 (39)	130 (175)
		2,4-DCAA	2	500	306	61	*	70 (39)	130 (175)
I.BLK-PS028296.D	PIBLK-PS028296.D	2,4-DCAA	1	500	530	106		70 (39)	130 (175)
		2,4-DCAA	2	500	508	102		70 (39)	130 (175)
I.BLK-PS028334.D	PIBLK-PS028334.D	2,4-DCAA	1	500	543	109		70 (39)	130 (175)
		2,4-DCAA	2	500	473	95		70 (39)	130 (175)
PB164393TB	PB164393TB	2,4-DCAA	1	500	376	75		70 (39)	130 (175)
		2,4-DCAA	2	500	292	58	*	70 (39)	130 (175)
I.BLK-PS028346.D	PIBLK-PS028346.D	2,4-DCAA	1	500	547	109		70 (39)	130 (175)
		2,4-DCAA	2	500	469	94		70 (39)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS028291.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**WB-305-BOTMS**											
P4578-06MS	2,4-D	50	0	53.0	ug/L	106				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	72.0	ug/L	144	*			70 (62)	130 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS028292.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WB-305-BOTMSD**											
P4578-06MSD	2,4-D	50	0	54.1	ug/L	108		2		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	71.5	ug/L	143	*	1		70 (62)	130 (139)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **Datafile :** PS028263.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164519BS	2,4-D	5	5.10	ug/L	102				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.10	ug/L	102				70 (78)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164519BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab Sample ID: PB164519BL Lab File ID: PS028262.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/28/2024

Date Analyzed (1): 11/06/2024 Date Analyzed (2): 11/06/2024

Time Analyzed (1): 13:26 Time Analyzed (2): 13:26

Instrument ID (1): ECD_S Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLP2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB164519BS	PB164519BS	PS028263.D	11/06/2024	11/06/2024
WB-305-BOT	P4578-06	PS028265.D	11/06/2024	11/06/2024
WB-305-BOTMS	P4578-06MS	PS028291.D	11/07/2024	11/07/2024
WB-305-BOTMSD	P4578-06MSD	PS028292.D	11/07/2024	11/07/2024
WB-305-BOT-1	P4578-08	PS028293.D	11/07/2024	11/07/2024
PB164393TB	PB164393TB	PS028345.D	11/08/2024	11/08/2024

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164519BL	SDG No.:	P4578
Lab Sample ID:	PB164519BL	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028262.D	1	10/28/24 08:45	11/06/24 13:26	PB164519

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	561		70 (39) - 130 (175)	112%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/06/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/06/24
Client Sample ID:	PIBLK-PS028252.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PS028252.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028252.D	1		11/06/24	PS110624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	491		70 (39) - 130 (175)	98%	SPK: 500

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/06/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/06/24
Client Sample ID:	PIBLK-PS028259.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PS028259.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028259.D	1		11/06/24	PS110624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	506		70 (39) - 130 (175)	101%	SPK: 500

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/06/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/06/24
Client Sample ID:	PIBLK-PS028271.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PS028271.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028271.D	1		11/06/24	PS110624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	519		70 (39) - 130 (175)	104%	SPK: 500

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/06/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/06/24
Client Sample ID:	PIBLK-PS028283.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PS028283.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028283.D	1		11/06/24	PS110624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	529		70 (39) - 130 (175)	106%	SPK: 500

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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D = Dilution
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/07/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/07/24
Client Sample ID:	PIBLK-PS028296.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PS028296.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028296.D	1		11/07/24	PS110624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	531		70 (39) - 130 (175)	106%	SPK: 500

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/07/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/07/24
Client Sample ID:	PIBLK-PS028334.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PS028334.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028334.D	1		11/07/24	PS110724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	543		70 (39) - 130 (175)	109%	SPK: 500

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/08/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/08/24
Client Sample ID:	PIBLK-PS028346.D	SDG No.:	P4578
Lab Sample ID:	I.BLK-PS028346.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028346.D	1		11/08/24	PS110724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	547		70 (39) - 130 (175)	109%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164519BS	SDG No.:	P4578
Lab Sample ID:	PB164519BS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028263.D	1	10/28/24 08:45	11/06/24 13:50	PB164519

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.10		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.10		0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	541		70 (39) - 130 (175)	108%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOTMS	SDG No.:	P4578
Lab Sample ID:	P4578-06MS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028291.D	1	10/28/24 08:45	11/07/24 02:16	PB164519

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	53.0		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	72.0	P	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	356		70 (39) - 130 (175)	71%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOTMSD	SDG No.:	P4578
Lab Sample ID:	P4578-06MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028292.D	1	10/28/24 08:45	11/07/24 02:40	PB164519

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	54.1		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	71.5	P	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	364		70 (39) - 130 (175)	73%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_S **Calibration Date(s):** 11/06/2024 11/06/2024

Calibration Times: 09:48 11:24

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028253.D RT 500 = PS028254.D

RT 750 = PS028255.D RT 1000 = PS028256.D RT 1500 = PS028257.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.28	9.28	9.28	9.28	9.28	9.28	9.18	9.38
2,4-D	8.39	8.39	8.39	8.39	8.39	8.39	8.29	8.49
2,4-DCAA	7.26	7.26	7.26	7.26	7.26	7.26	7.16	7.36

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_S **Calibration Date(s):** 11/06/2024 11/06/2024

Calibration Times: 09:48 11:24

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028253.D RT 500 = PS028254.D

RT 750 = PS028255.D RT 1000 = PS028256.D RT 1500 = PS028257.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.92	9.92	9.92	9.92	9.92	9.92	9.82	10.02
2,4-D	9.02	9.02	9.02	9.02	9.02	9.02	8.92	9.12
2,4-DCAA	7.77	7.77	7.77	7.77	7.77	7.76	7.66	7.86

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_S **Calibration Date(s):** 11/06/2024 11/06/2024

Calibration Times: 09:48 11:24

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028253.D **CF 500 =** PS028254.D

CF 750 = PS028255.D **CF 1000 =** PS028256.D **CF 1500 =** PS028257.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	18381400000	17393400000	17071400000	16437600000	15844400000	17025600000	6
2,4-D	3499520000	3198390000	3124710000	3013570000	2944350000	3156110000	7
2,4-DCAA	2911600000	2530960000	2546610000	2432090000	2385800000	2561410000	8

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Instrument ID: ECD_S **Calibration Date(s):** 11/06/2024 11/06/2024

Calibration Times: 09:48 11:24

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028253.D **CF 500 =** PS028254.D

CF 750 = PS028255.D **CF 1000 =** PS028256.D **CF 1500 =** PS028257.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	12950900000	12612000000	12578800000	12192000000	11879700000	12442700000	3
2,4-D	2348170000	2233230000	2226180000	2175820000	2167290000	2230140000	3
2,4-DCAA	1855960000	1741220000	1731630000	1690270000	1689820000	1741780000	4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 12:38 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.26	7.26	7.16	7.36	0.00
2,4-D	8.39	8.39	8.29	8.49	0.00
2,4,5-TP(Silvex)	9.28	9.28	9.18	9.38	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 12:38 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.77	7.77	7.67	7.87	0.01
2,4-D	9.02	9.02	8.92	9.12	0.00
2,4,5-TP(Silvex)	9.92	9.92	9.82	10.02	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/06/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028260.D **Time Analyzed:** 12:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.277	9.177	9.377	725.700	712.500	1.9
2,4-D	8.394	8.294	8.494	710.400	705.000	0.8
2,4-DCAA	7.262	7.162	7.362	757.550	750.000	1.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/06/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028260.D **Time Analyzed:** 12:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.922	9.823	10.023	729.510	712.500	2.4
2,4-D	9.015	8.915	9.115	713.640	705.000	1.2
2,4-DCAA	7.765	7.665	7.865	759.640	750.000	1.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 18:15 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.26	7.26	7.16	7.36	0.00
2,4-D	8.39	8.39	8.29	8.49	0.00
2,4,5-TP(Silvex)	9.28	9.28	9.18	9.38	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 18:15 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
2,4-D	9.01	9.02	8.92	9.12	0.01
2,4,5-TP(Silvex)	9.92	9.92	9.82	10.02	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/06/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028272.D **Time Analyzed:** 18:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.276	9.177	9.377	748.270	712.500	5.0
2,4-D	8.393	8.294	8.494	733.030	705.000	4.0
2,4-DCAA	7.261	7.162	7.362	777.510	750.000	3.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/06/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028272.D **Time Analyzed:** 18:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.922	9.823	10.023	740.260	712.500	3.9
2,4-D	9.014	8.915	9.115	721.950	705.000	2.4
2,4-DCAA	7.764	7.665	7.865	776.030	750.000	3.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 23:03 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.26	7.26	7.16	7.36	0.00
2,4-D	8.39	8.39	8.29	8.49	0.00
2,4,5-TP(Silvex)	9.27	9.28	9.18	9.38	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 23:03 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
2,4-D	9.01	9.02	8.92	9.12	0.01
2,4,5-TP(Silvex)	9.92	9.92	9.82	10.02	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/06/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028284.D **Time Analyzed:** 23:03

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.274	9.177	9.377	764.460	712.500	7.3
2,4-D	8.391	8.294	8.494	746.130	705.000	5.8
2,4-DCAA	7.260	7.162	7.362	788.410	750.000	5.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/06/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028284.D **Time Analyzed:** 23:03

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.921	9.823	10.023	729.370	712.500	2.4
2,4-D	9.013	8.915	9.115	714.340	705.000	1.3
2,4-DCAA	7.763	7.665	7.865	773.710	750.000	3.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/07/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 04:40 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.26	7.26	7.16	7.36	0.00
2,4-D	8.39	8.39	8.29	8.49	0.00
2,4,5-TP(Silvex)	9.27	9.28	9.18	9.38	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/07/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 04:40 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
2,4-D	9.01	9.02	8.92	9.12	0.01
2,4,5-TP(Silvex)	9.92	9.92	9.82	10.02	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/07/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028297.D **Time Analyzed:** 04:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.270	9.177	9.377	773.230	712.500	8.5
2,4-D	8.388	8.294	8.494	749.690	705.000	6.3
2,4-DCAA	7.258	7.162	7.362	772.740	750.000	3.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/07/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028297.D **Time Analyzed:** 04:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.918	9.823	10.023	718.100	712.500	0.8
2,4-D	9.011	8.915	9.115	700.360	705.000	-0.7
2,4-DCAA	7.761	7.665	7.865	760.410	750.000	1.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/07/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 20:41 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.25	7.26	7.16	7.36	0.01
2,4-D	8.38	8.39	8.29	8.49	0.01
2,4,5-TP(Silvex)	9.27	9.28	9.18	9.38	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/07/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 20:41 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
2,4-D	9.01	9.02	8.92	9.12	0.01
2,4,5-TP(Silvex)	9.91	9.92	9.82	10.02	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL05 **Date Analyzed:** 11/07/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028335.D **Time Analyzed:** 20:41

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.265	9.177	9.377	752.310	712.500	5.6
2,4-D	8.384	8.294	8.494	729.800	705.000	3.5
2,4-DCAA	7.254	7.162	7.362	762.350	750.000	1.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL05 **Date Analyzed:** 11/07/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028335.D **Time Analyzed:** 20:41

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.914	9.823	10.023	631.720	712.500	-11.3
2,4-D	9.008	8.915	9.115	614.020	705.000	-12.9
2,4-DCAA	7.758	7.665	7.865	672.470	750.000	-10.3

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/08/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 01:53 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.25	7.26	7.16	7.36	0.01
2,4-D	8.38	8.39	8.29	8.49	0.01
2,4,5-TP(Silvex)	9.26	9.28	9.18	9.38	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Continuing Calib Date: 11/08/2024 **Initial Calibration Date(s):** 11/06/2024 11/06/2024

Continuing Calib Time: 01:53 **Initial Calibration Time(s):** 09:48 11:24

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
2,4-D	9.01	9.02	8.92	9.12	0.01
2,4,5-TP(Silvex)	9.91	9.92	9.82	10.02	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL06 **Date Analyzed:** 11/08/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028347.D **Time Analyzed:** 01:53

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.263	9.177	9.377	757.670	712.500	6.3
2,4-D	8.383	8.294	8.494	735.490	705.000	4.3
2,4-DCAA	7.252	7.162	7.362	768.470	750.000	2.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/06/2024 11/06/2024

Client Sample No.: CCAL06 **Date Analyzed:** 11/08/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028347.D **Time Analyzed:** 01:53

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.914	9.823	10.023	618.860	712.500	-13.1
2,4-D	9.008	8.915	9.115	603.860	705.000	-14.3
2,4-DCAA	7.758	7.665	7.865	659.600	750.000	-12.1

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/06/2024 11/06/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	11/06/2024	09:24	PS028252.D	7.26	0.00
HSTDICC200	HSTDICC200	11/06/2024	09:48	PS028253.D	7.26	0.00
HSTDICC500	HSTDICC500	11/06/2024	10:12	PS028254.D	7.26	0.00
HSTDICC750	HSTDICC750	11/06/2024	10:36	PS028255.D	7.26	0.00
HSTDICC1000	HSTDICC1000	11/06/2024	11:00	PS028256.D	7.26	0.00
HSTDICC1500	HSTDICC1500	11/06/2024	11:24	PS028257.D	7.26	0.00
I.BLK	I.BLK	11/06/2024	12:14	PS028259.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	12:38	PS028260.D	7.26	0.00
PB164519BL	PB164519BL	11/06/2024	13:26	PS028262.D	7.26	0.00
PB164519BS	PB164519BS	11/06/2024	13:50	PS028263.D	7.26	0.00
WB-305-BOT	P4578-06	11/06/2024	15:23	PS028265.D	7.26	0.00
I.BLK	I.BLK	11/06/2024	17:51	PS028271.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	18:15	PS028272.D	7.26	0.00
I.BLK	I.BLK	11/06/2024	22:39	PS028283.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	23:03	PS028284.D	7.26	0.00
WB-305-BOTMS	P4578-06MS	11/07/2024	02:16	PS028291.D	7.26	0.00
WB-305-BOTMSD	P4578-06MSD	11/07/2024	02:40	PS028292.D	7.26	0.00
WB-305-BOT-1	P4578-08	11/07/2024	03:04	PS028293.D	7.26	0.00
I.BLK	I.BLK	11/07/2024	04:16	PS028296.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	04:40	PS028297.D	7.26	0.00
I.BLK	I.BLK	11/07/2024	20:17	PS028334.D	7.25	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	20:41	PS028335.D	7.25	0.00
PB164393TB	PB164393TB	11/08/2024	01:05	PS028345.D	7.25	0.00
I.BLK	I.BLK	11/08/2024	01:29	PS028346.D	7.25	0.00
HSTDCCC750	HSTDCCC750	11/08/2024	01:53	PS028347.D	7.25	0.00

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/06/2024 11/06/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	11/06/2024	09:24	PS028252.D	7.76	0.00
HSTDICC200	HSTDICC200	11/06/2024	09:48	PS028253.D	7.77	0.00
HSTDICC500	HSTDICC500	11/06/2024	10:12	PS028254.D	7.77	0.00
HSTDICC750	HSTDICC750	11/06/2024	10:36	PS028255.D	7.77	0.00
HSTDICC1000	HSTDICC1000	11/06/2024	11:00	PS028256.D	7.77	0.00
HSTDICC1500	HSTDICC1500	11/06/2024	11:24	PS028257.D	7.77	0.00
I.BLK	I.BLK	11/06/2024	12:14	PS028259.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	12:38	PS028260.D	7.77	0.00
PB164519BL	PB164519BL	11/06/2024	13:26	PS028262.D	7.77	0.00
PB164519BS	PB164519BS	11/06/2024	13:50	PS028263.D	7.77	0.00
WB-305-BOT	P4578-06	11/06/2024	15:23	PS028265.D	7.76	0.00
I.BLK	I.BLK	11/06/2024	17:51	PS028271.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	18:15	PS028272.D	7.76	0.00
I.BLK	I.BLK	11/06/2024	22:39	PS028283.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	23:03	PS028284.D	7.76	0.00
WB-305-BOTMS	P4578-06MS	11/07/2024	02:16	PS028291.D	7.76	0.00
WB-305-BOTMSD	P4578-06MSD	11/07/2024	02:40	PS028292.D	7.76	0.00
WB-305-BOT-1	P4578-08	11/07/2024	03:04	PS028293.D	7.76	0.00
I.BLK	I.BLK	11/07/2024	04:16	PS028296.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	04:40	PS028297.D	7.76	0.00
I.BLK	I.BLK	11/07/2024	20:17	PS028334.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	20:41	PS028335.D	7.76	0.00
PB164393TB	PB164393TB	11/08/2024	01:05	PS028345.D	7.76	0.00
I.BLK	I.BLK	11/08/2024	01:29	PS028346.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/08/2024	01:53	PS028347.D	7.76	0.00

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164519BS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Lab Sample ID: PB164519BS **Date(s) Analyzed:** 11/06/2024 11/06/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.39	8.34	8.44	5.10	4
	2	9.02	8.97	9.07	4.90	
2,4,5-TP(Silvex)	1	9.28	9.23	9.33	5.10	0
	2	9.92	9.87	9.97	5.10	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-305-BOTMS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Lab Sample ID: P4578-06MS **Date(s) Analyzed:** 11/07/2024 11/07/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.39	8.34	8.44	53.0	8.7
	2	9.01	8.96	9.06	48.6	
2,4,5-TP(Silvex)	1	9.27	9.22	9.32	52.6	31.1
	2	9.92	9.87	9.97	72.0	

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-305-BOTMSD

Contract: PORT06

Lab Code: CHEM **Case No.:** P4578 **SAS No.:** P4578 **SDG NO.:** P4578

Lab Sample ID: P4578-06MSD **Date(s) Analyzed:** 11/07/2024 11/07/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.39	8.34	8.44	54.1	9.1
	2	9.01	8.96	9.06	49.4	
2,4,5-TP(Silvex)	1	9.27	9.22	9.32	53.2	29.4
	2	9.92	9.87	9.97	71.5	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028265.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 15:23
Operator : AR\AJ
Sample : P4578-06
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 16:13:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Instrument :
ECD_S
ClientSampleId :
WB-305-BOT

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.263	7.760	866.0E6	484.5E6	338.081m	278.179m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

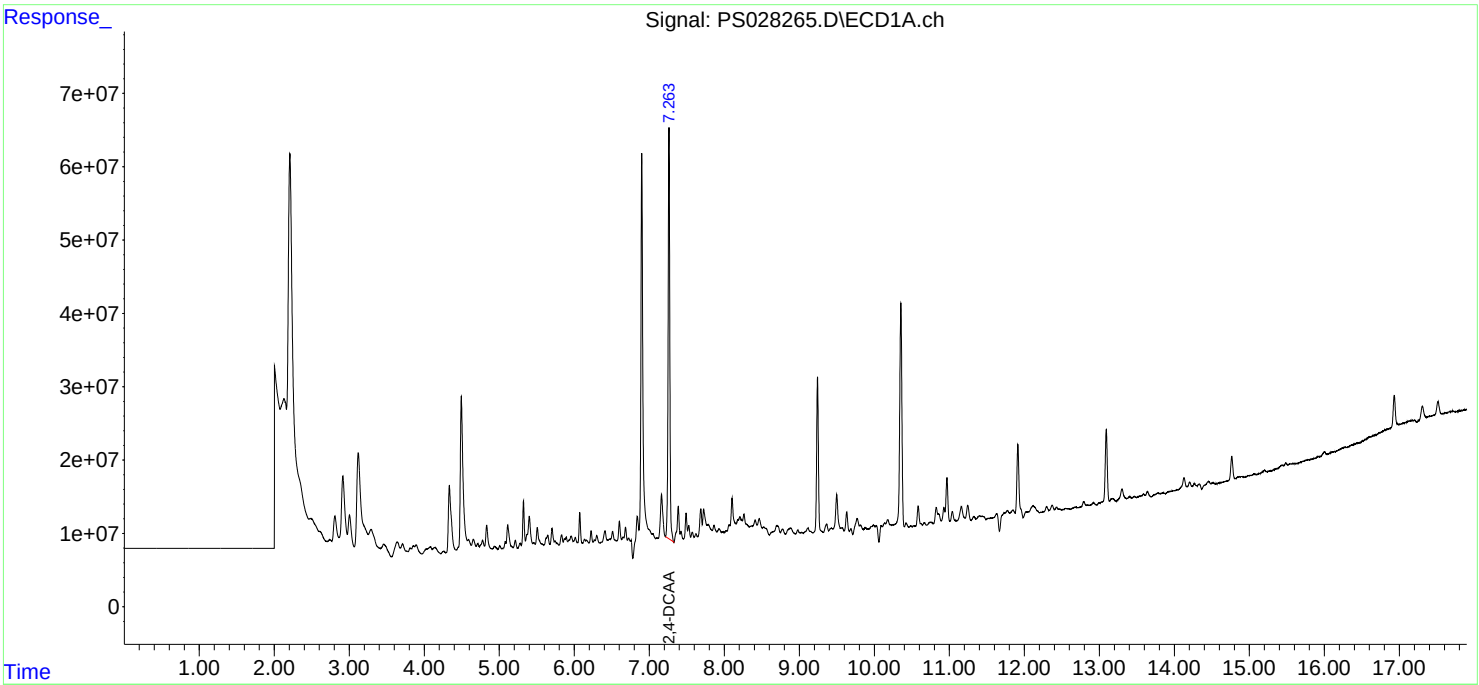
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028265.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 15:23
Operator : AR\AJ
Sample : P4578-06
Misc :
ALS Vial : 27 Sample Multiplier: 1

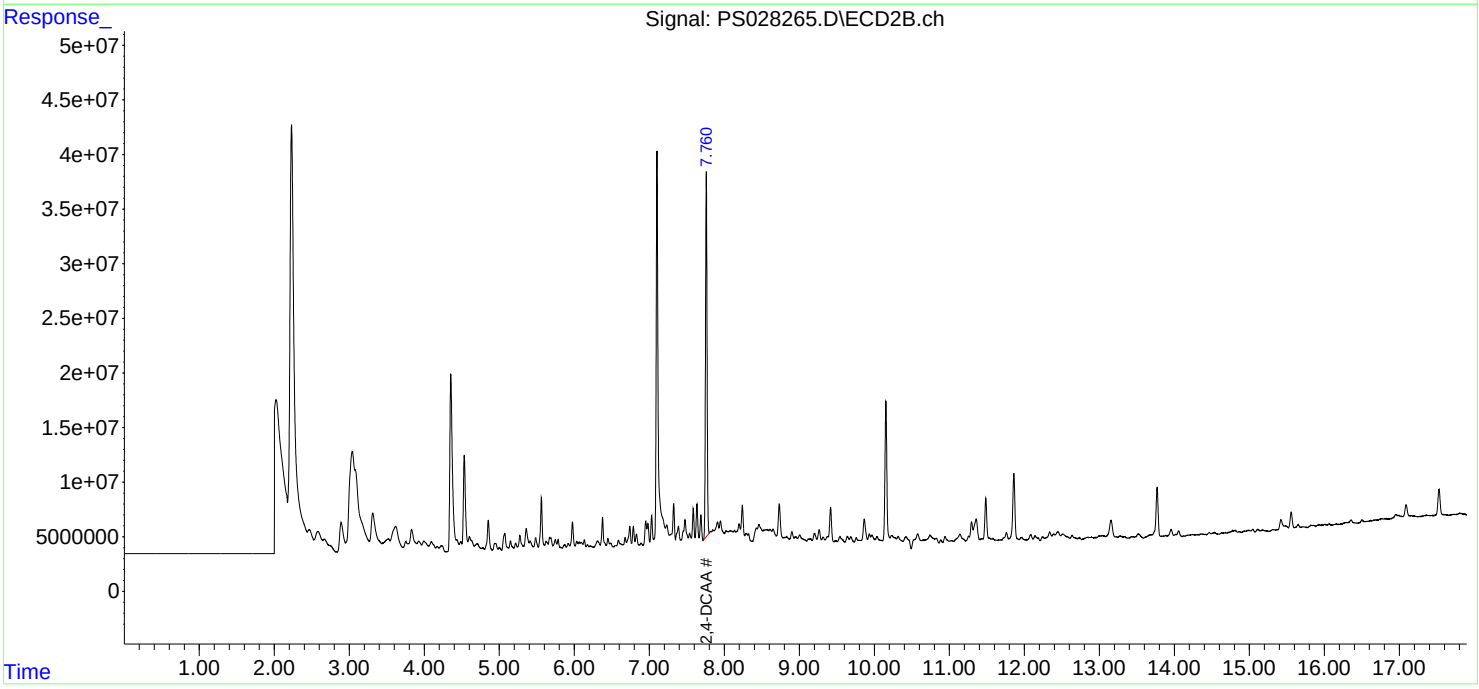
Instrument :
ECD_S
ClientSampleId :
WB-305-BOT

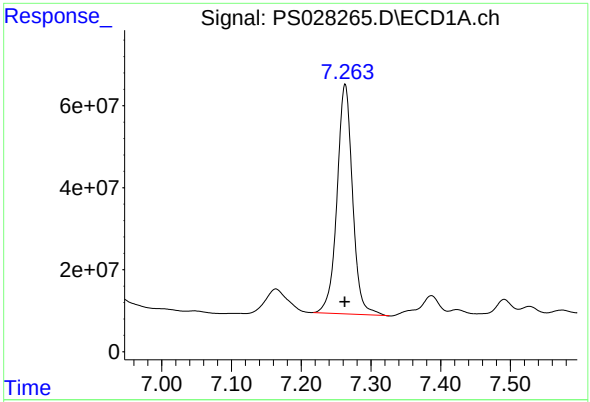
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 16:13:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







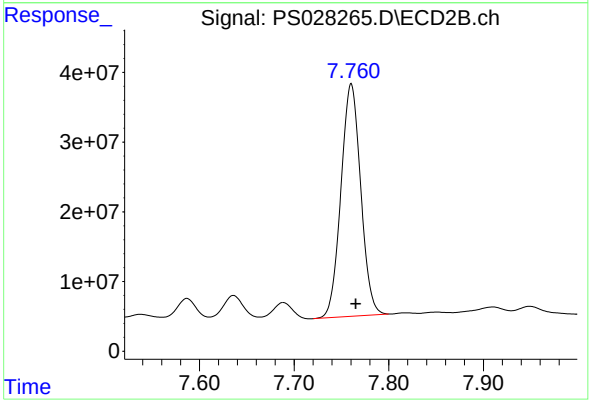
#4 2,4-DCAA

R.T.: 7.263 min
Delta R.T.: 0.000 min
Response: 865966294
Conc: 338.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
WB-305-BOT

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



#4 2,4-DCAA

R.T.: 7.760 min
Delta R.T.: -0.005 min
Response: 484526522
Conc: 278.18 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028293.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 03:04
Operator : AR\AJ
Sample : P4578-08
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 04:55:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Instrument :
ECD_S
ClientSampleId :
WB-305-BOT-1

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.258	7.762	941.2E6	532.7E6	367.461m	305.849m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

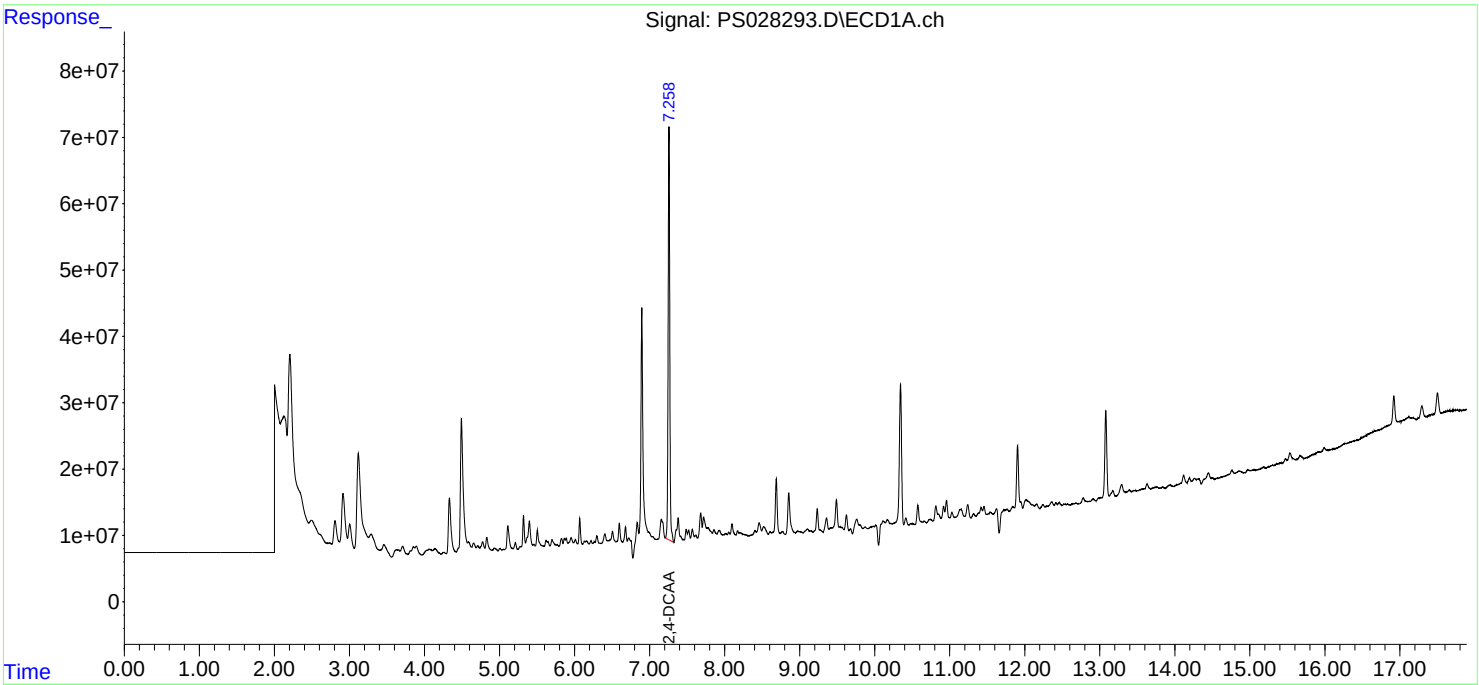
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028293.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 03:04
Operator : AR\AJ
Sample : P4578-08
Misc :
ALS Vial : 30 Sample Multiplier: 1

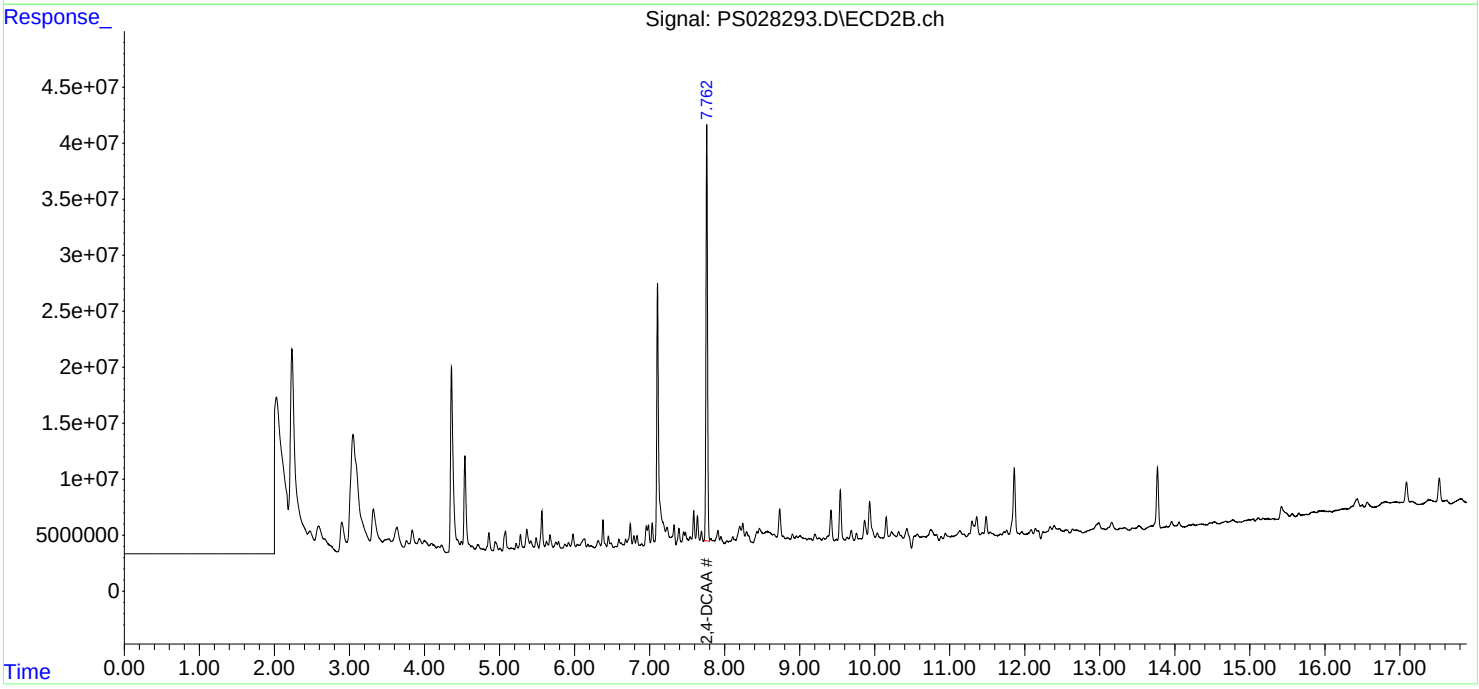
Instrument :
ECD_S
ClientSampleId :
WB-305-BOT-1

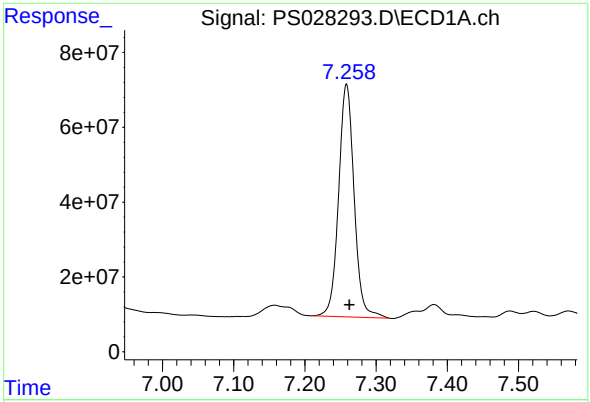
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 04:55:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







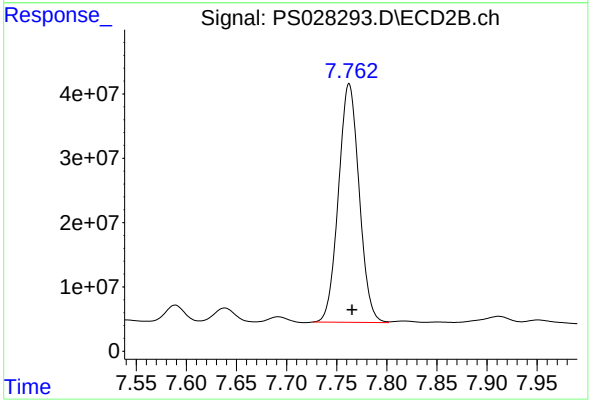
#4 2,4-DCAA

R.T.: 7.258 min
Delta R.T.: -0.005 min
Response: 941219051
Conc: 367.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
WB-305-BOT-1

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



#4 2,4-DCAA

R.T.: 7.762 min
Delta R.T.: -0.003 min
Response: 532721749
Conc: 305.85 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110724\
Data File : PS028345.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Nov 2024 01:05
Operator : AR\AJ
Sample : PB164393TB
Misc :
ALS Vial : 80 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164393TB

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 04:46:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.253	7.757	963.8E6	507.9E6	376.291	291.611m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

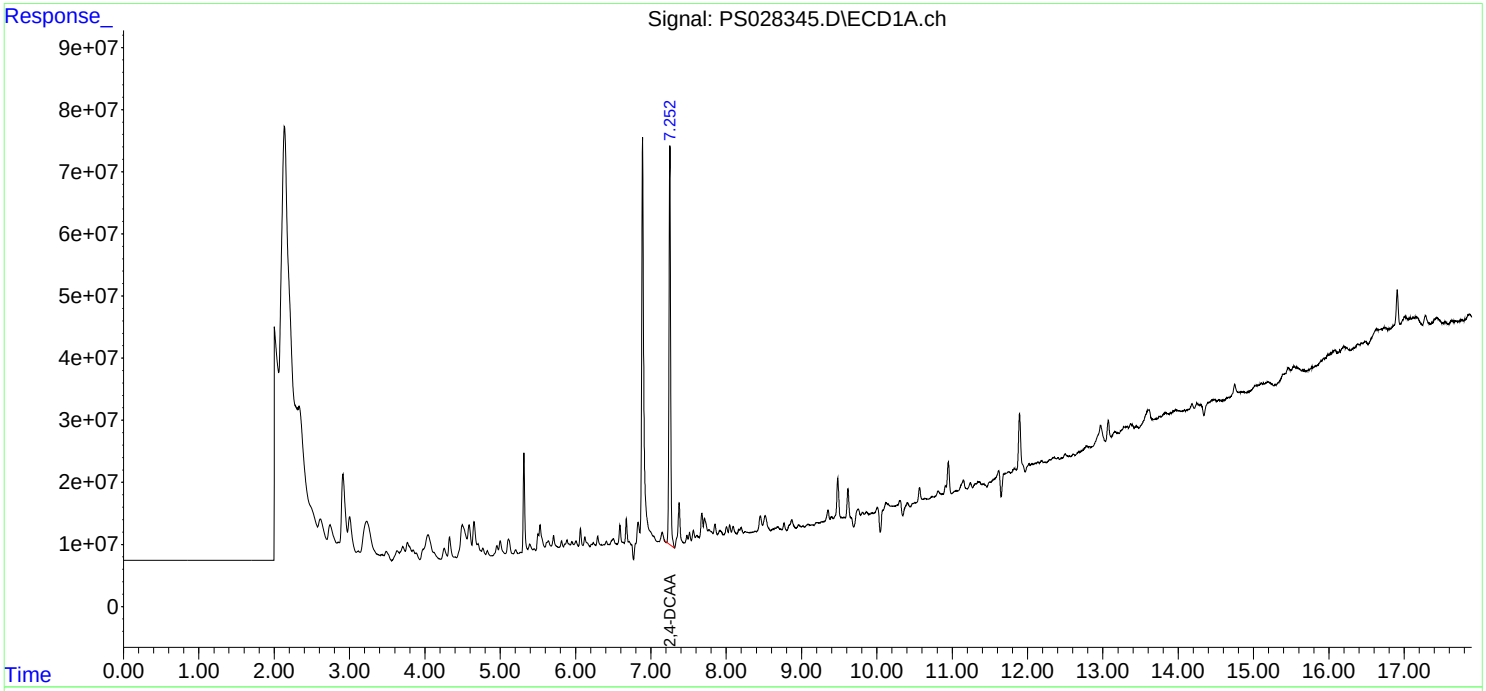
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110724\
Data File : PS028345.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Nov 2024 01:05
Operator : AR\AJ
Sample : PB164393TB
Misc :
ALS Vial : 80 Sample Multiplier: 1

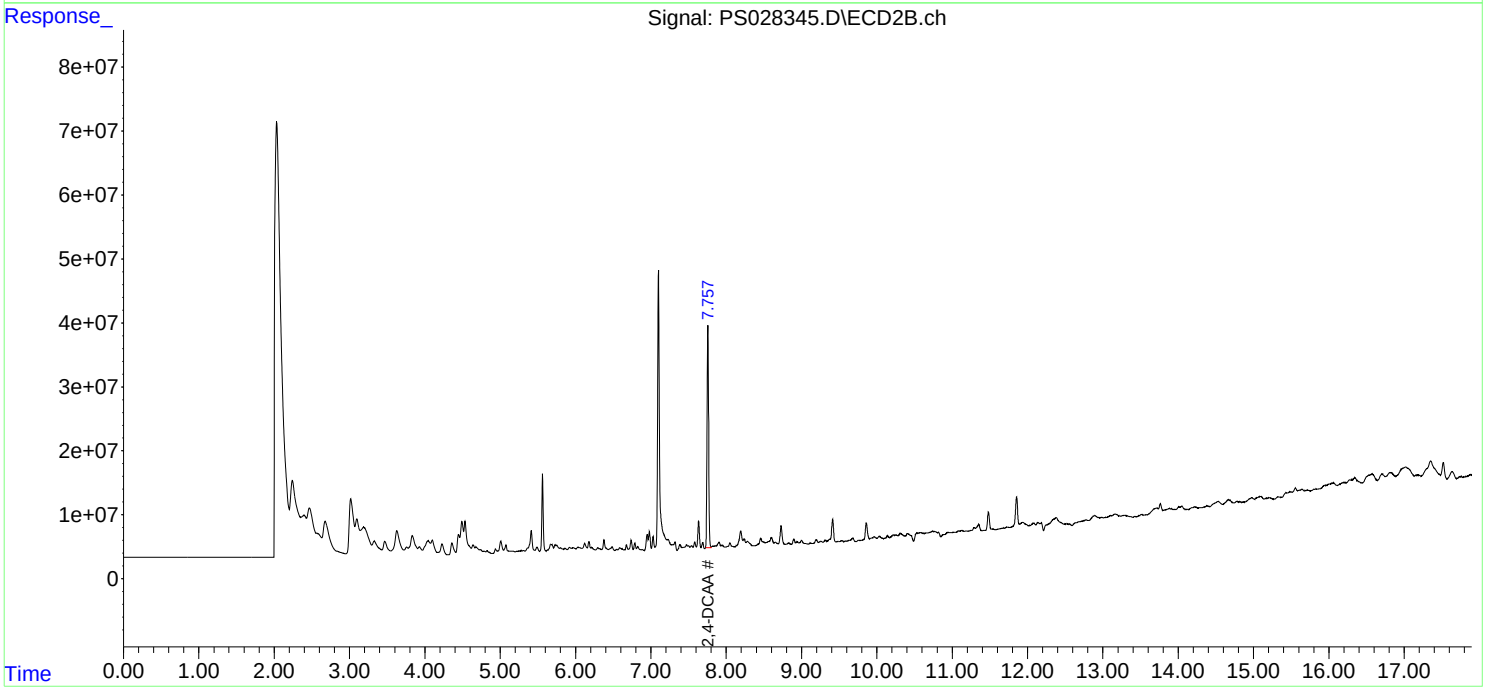
Instrument :
ECD_S
ClientSampleId :
PB164393TB

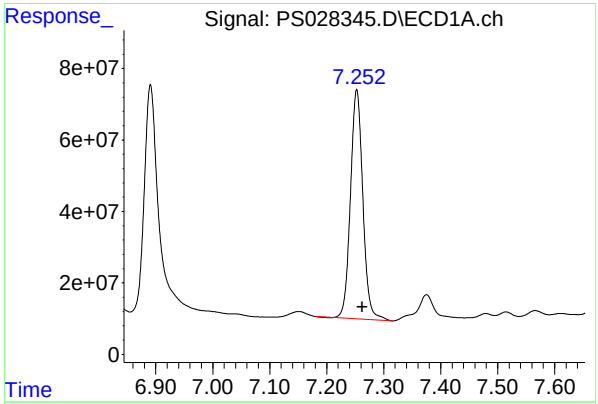
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 04:46:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







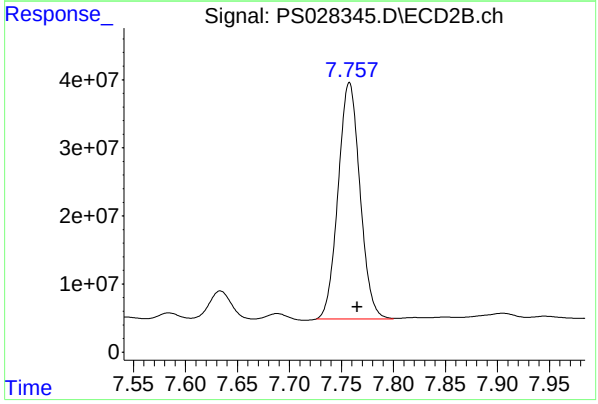
#4 2,4-DCAA

R.T.: 7.253 min
Delta R.T.: -0.010 mi
Response: 963836470
Conc: 376.29 ng/m

Instrument :
ECD_S
ClientSampleId :
PB164393TB

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



#4 2,4-DCAA

R.T.: 7.757 min
Delta R.T.: -0.008 min
Response: 507921713
Conc: 291.61 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028262.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 13:26
Operator : AR\AJ
Sample : PB164519BL
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 16:11:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Instrument :
ECD_S
ClientSampleId :
PB164519BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.262	7.765	1437.3E6	937.1E6	561.145	538.006m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028262.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 13:26
Operator : AR\AJ
Sample : PB164519BL
Misc :
ALS Vial : 24 Sample Multiplier: 1

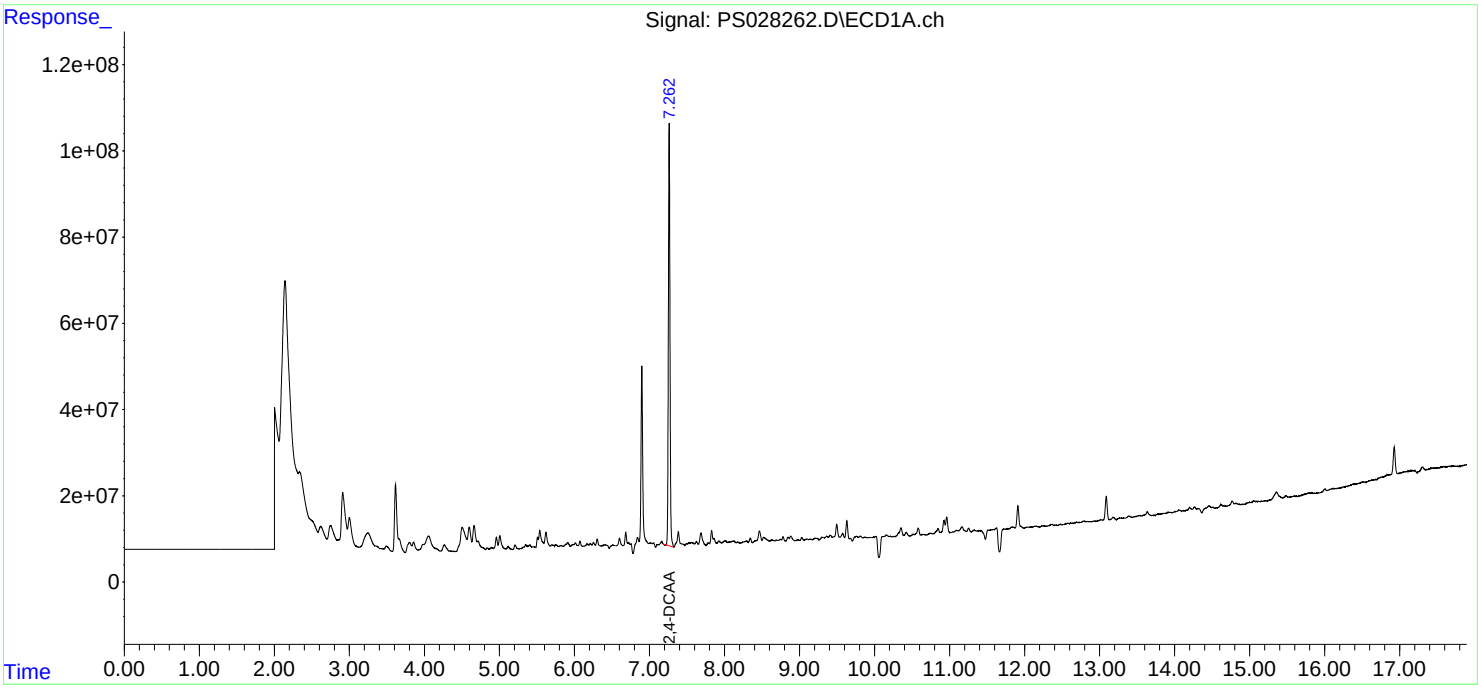
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 16:11:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

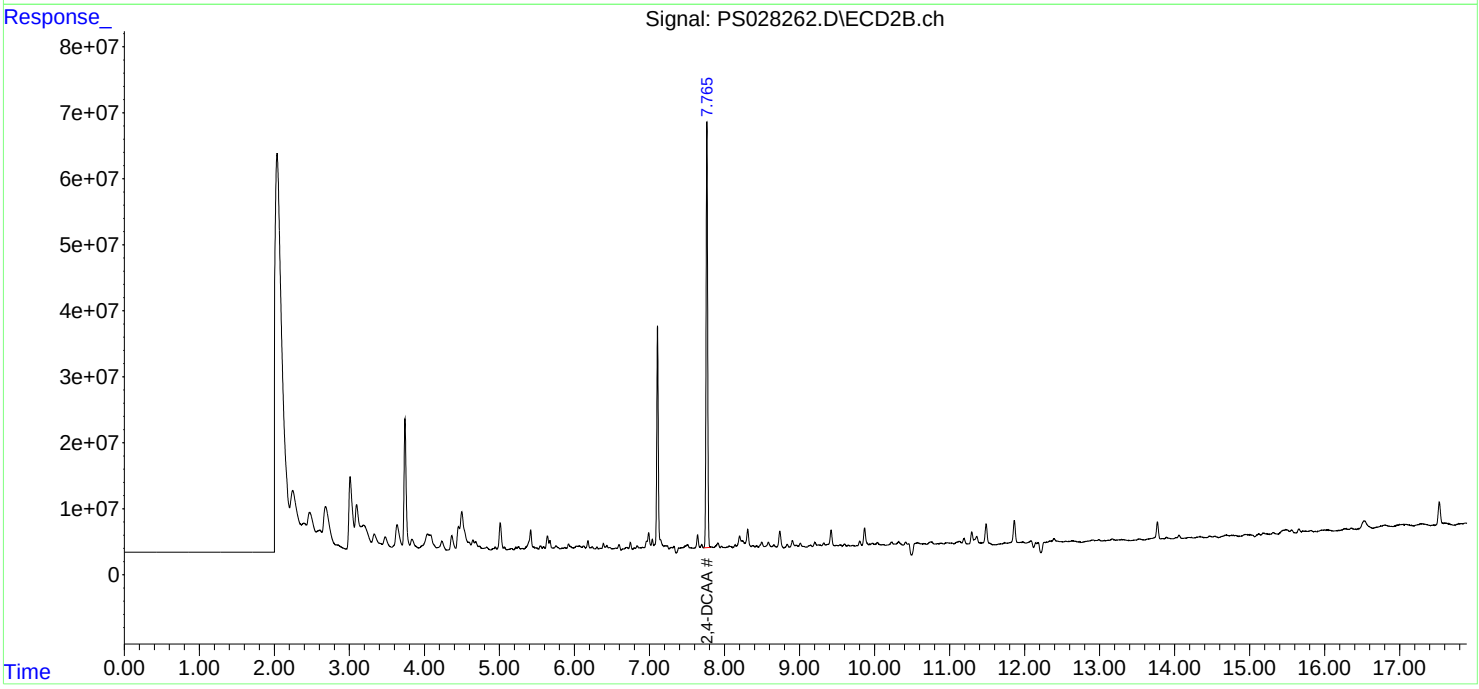
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

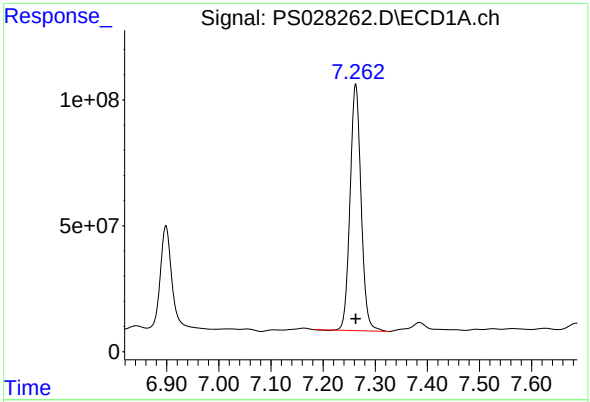
Instrument :
ECD_S
ClientSampleId :
PB164519BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024







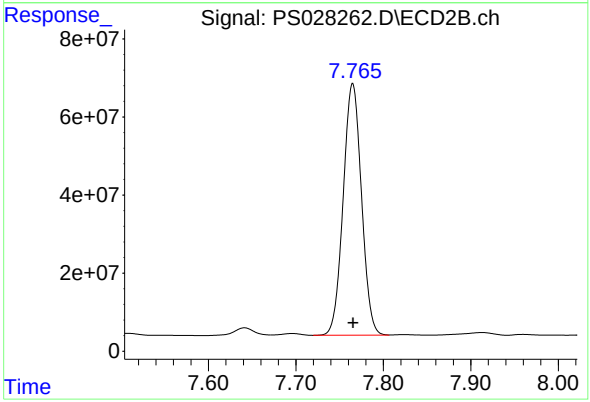
#4 2,4-DCAA

R.T.: 7.262 min
Delta R.T.: 0.000 min
Response: 1437325538
Conc: 561.15 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164519BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



#4 2,4-DCAA

R.T.: 7.765 min
Delta R.T.: 0.000 min
Response: 937087650
Conc: 538.01 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028263.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 13:50
Operator : AR\AJ
Sample : PB164519BS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164519BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 16:12:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.262	7.765	1384.5E6	923.0E6	540.540	529.898
		Target Compounds						
1)	T	Dalapon	2.654	2.710	1598.2E6	1291.5E6	449.021	438.929
2)	T	3,5-DICHL...	6.430	6.715	1869.4E6	1253.4E6	498.667	495.241
3)	T	4-Nitroph...	7.062	7.291	794.4E6	542.8E6	482.189	473.707
5)	T	DICAMBA	7.452	7.966	5642.2E6	4025.5E6	502.490	501.146
6)	T	MCPP	7.634	8.066	368.6E6	303.2E6	48.606	49.944
7)	T	MCPA	7.784	8.312	503.9E6	409.3E6	48.399	49.089
8)	T	DICHLORPROP	8.163	8.684	1427.6E6	999.5E6	506.363	497.442
9)	T	2,4-D	8.394	9.015	1598.3E6	1103.4E6	506.415	494.773
10)	T	Pentachlo...	8.694	9.546	22317.3E6	14963.0E6	536.955	513.053
11)	T	2,4,5-TP ...	9.276	9.922	8699.3E6	6399.2E6	510.956	514.296
12)	T	2,4,5-T	9.569	10.344	8960.3E6	6214.8E6	516.877	506.637
13)	T	2,4-DB	10.148	10.912	1427.3E6	775.8E6	504.967	489.515
14)	T	DINOSEB	11.364	11.292	7386.1E6	4326.8E6	510.835	496.094
15)	T	Picloram	11.169	12.392	14385.8E6	8666.1E6	496.081	480.594
16)	T	DCPA	11.657	12.339	12424.8E6	7092.3E6	522.947	506.216

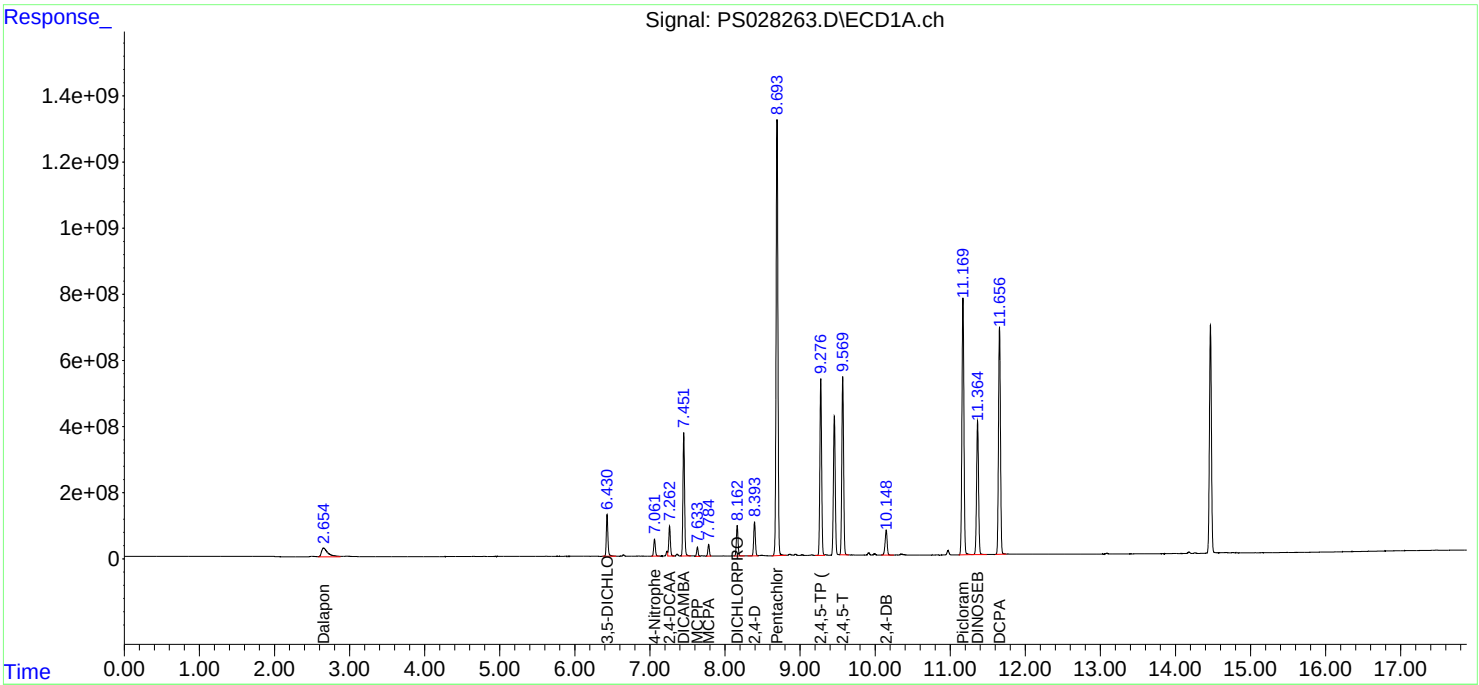
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

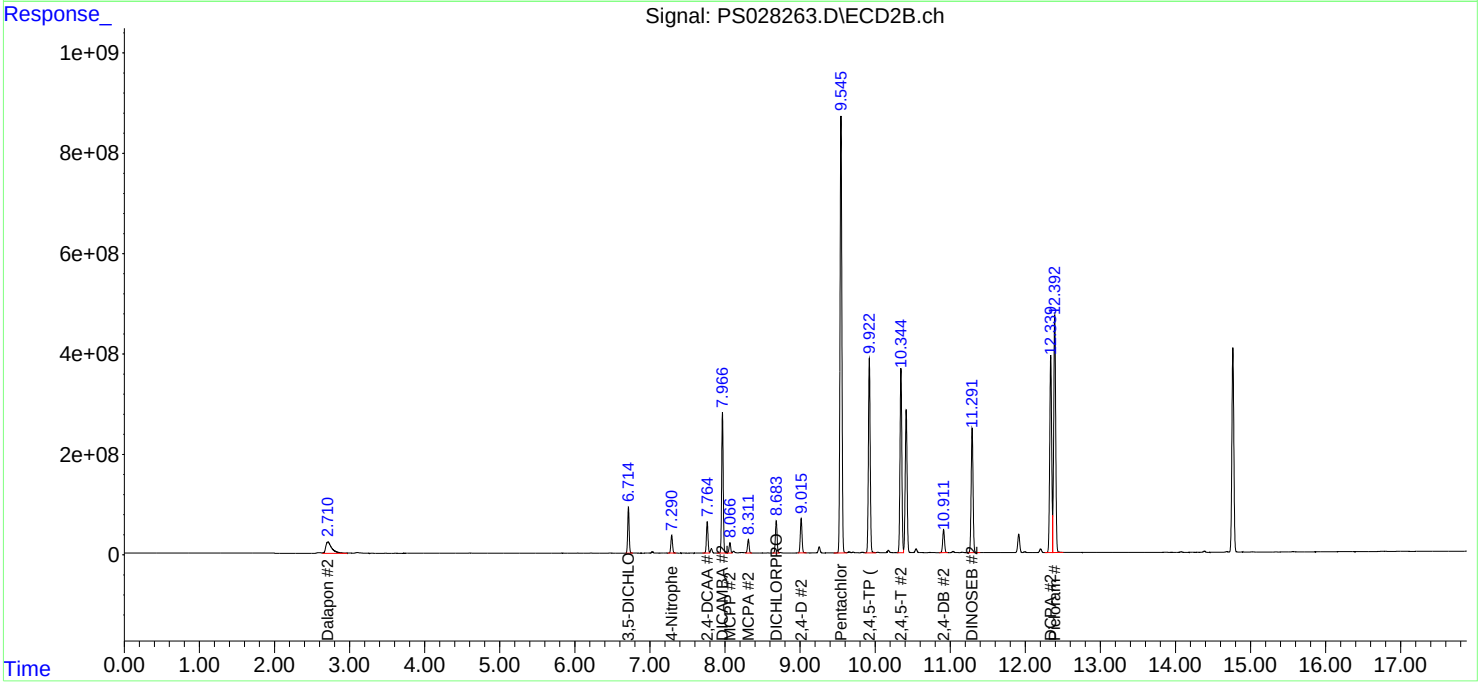
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028263.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 13:50
Operator : AR\AJ
Sample : PB164519BS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164519BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 16:12:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028291.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 02:16
Operator : AR\AJ
Sample : P4578-06MS
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-305-BOTMS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 03:21:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.259	7.762	913.1E6	502.5E6	356.481m	288.499m
	Target Compounds						
1) T	Dalapon	2.658	2.713	982.0E6	1080.5E6	275.908	367.216 #
2) T	3,5-DICHL...	6.427	6.713	1625.5E6	1032.2E6	433.611	407.831
5) T	DICAMBA	7.448	7.964	4741.2E6	3320.6E6	422.242	413.388
6) T	MCPP	7.630	8.064	301.8E6	245.6E6	39.807m	40.455
7) T	MCPA	7.780	8.309	442.1E6	401.8E6	42.468	48.188
8) T	DICHLORPROP	8.159	8.681	1340.0E6	882.6E6	475.312	439.261
9) T	2,4-D	8.389	9.012	1673.7E6	1083.8E6	530.289m	485.999
10) T	Pentachlo...	8.690	9.543	14420.7E6	8996.1E6	346.963	308.460
11) T	2,4,5-TP ...	9.272	9.923	8962.9E6	8962.3E6	526.438m	720.282 #
12) T	2,4,5-T	9.565	10.341	8200.2E6	5335.6E6	473.032	434.966
13) T	2,4-DB	10.143	10.909	1102.1E6	626.5E6	389.916	395.278
14) T	DINOSEB	11.359	11.289	3695.6E6	2092.0E6	255.590	239.859
15) T	Picloram	11.164	12.389	11804.1E6	6502.0E6	407.053	360.577
16) T	DCPA	11.651	12.335	11654.9E6	6856.9E6	490.539	489.410

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

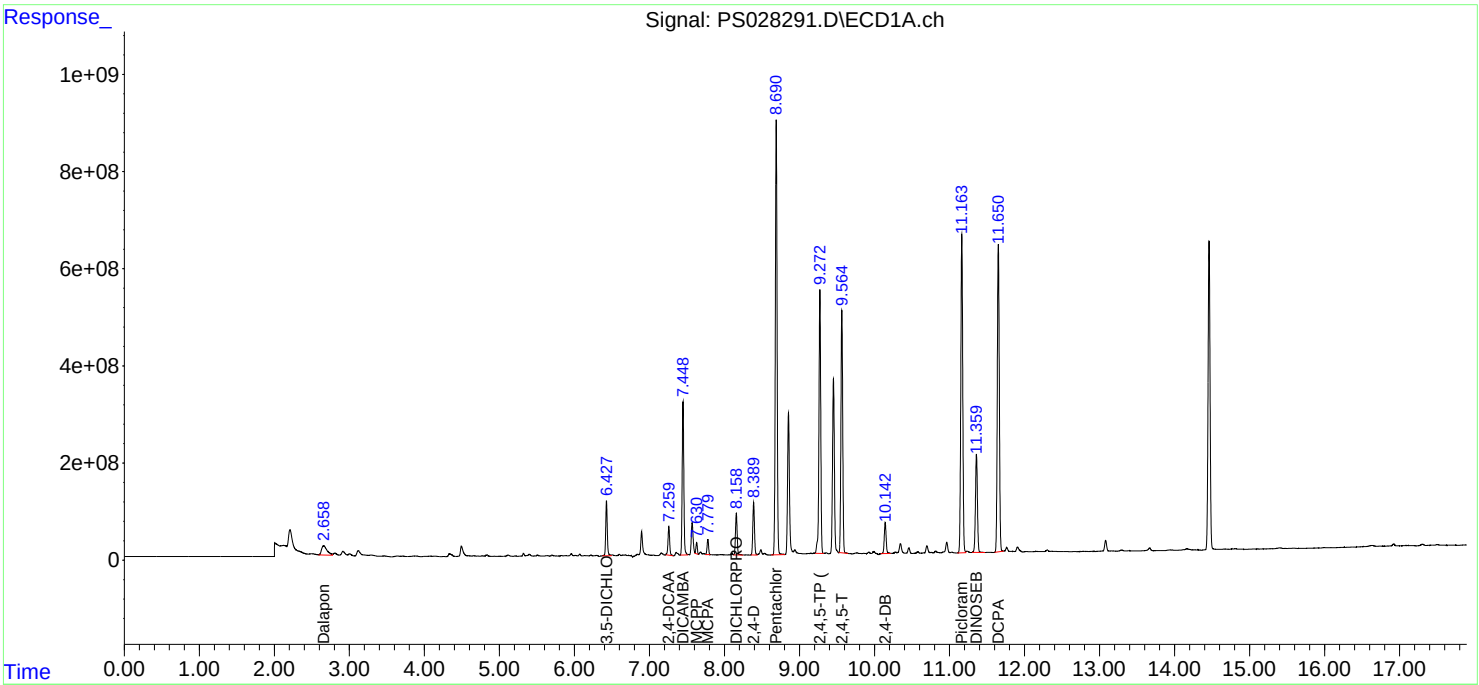
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028291.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 02:16
Operator : AR\AJ
Sample : P4578-06MS
Misc :
ALS Vial : 28 Sample Multiplier: 1

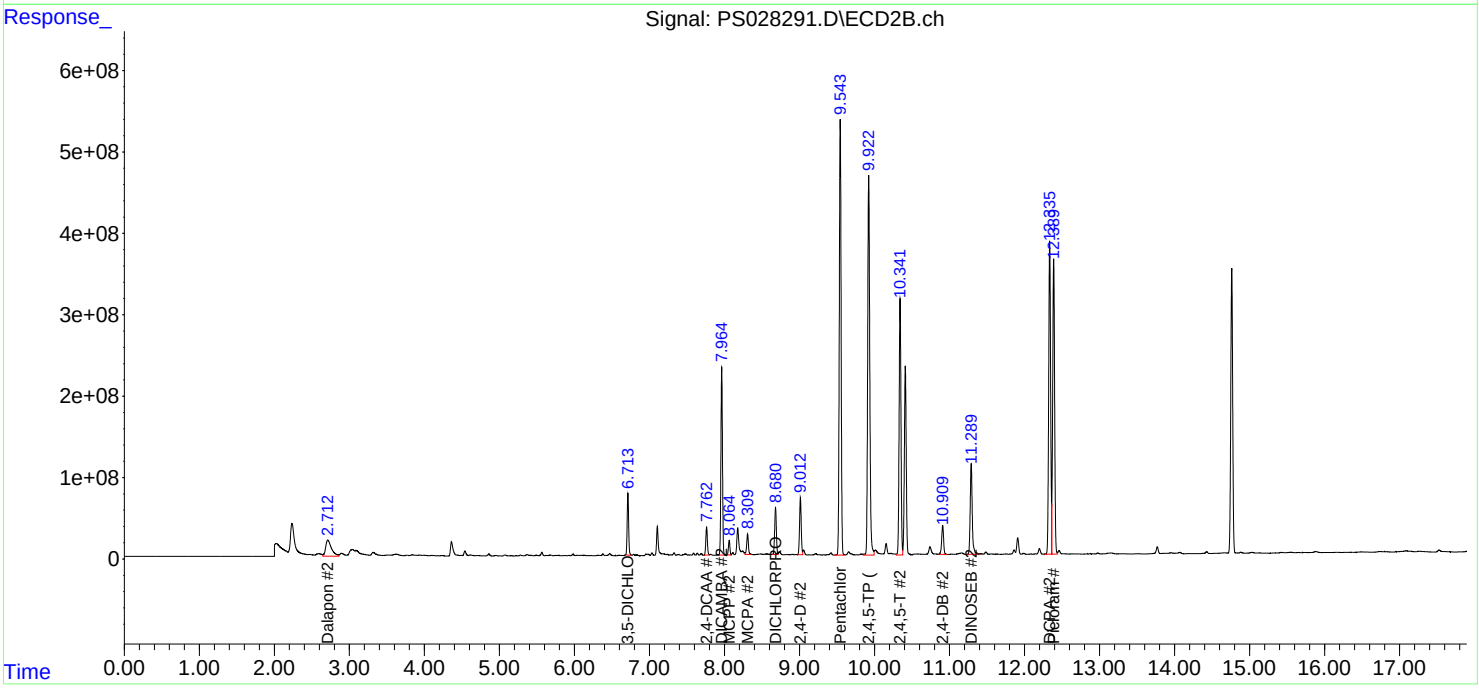
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 03:21:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Instrument :
ECD_S
ClientSampleId :
WB-305-BOTMS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028292.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 02:40
Operator : AR\AJ
Sample : P4578-06MSD
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-305-BOTMSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 04:54:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.259	7.762	932.0E6	522.3E6	363.853m	299.871m
	Target Compounds						
1) T	Dalapon	2.657	2.714	977.5E6	1085.7E6	274.631	368.973 #
2) T	3,5-DICHL...	6.427	6.713	1670.5E6	1074.4E6	445.623	424.508
5) T	DICAMBA	7.448	7.964	4790.1E6	3375.9E6	426.597	420.283
6) T	MCPP	7.629	8.064	305.4E6	249.3E6	40.278m	41.056
7) T	MCPA	7.779	8.309	444.4E6	405.9E6	42.688	48.674
8) T	DICHLORPROP	8.159	8.681	1348.3E6	897.8E6	478.243	446.837
9) T	2,4-D	8.389	9.012	1706.4E6	1101.0E6	540.682m	493.711
10) T	Pentachlo...	8.690	9.543	14874.8E6	9344.3E6	357.889	320.398
11) T	2,4,5-TP ...	9.272	9.922	9052.3E6	8900.0E6	531.687	715.282m#
12) T	2,4,5-T	9.565	10.341	8266.1E6	5426.4E6	476.831	442.368
13) T	2,4-DB	10.143	10.909	1110.4E6	634.6E6	392.856	400.384
14) T	DINOSEB	11.359	11.288	3844.9E6	2190.4E6	265.920	251.142
15) T	Picloram	11.164	12.389	12037.9E6	6642.6E6	415.114	368.377
16) T	DCPA	11.651	12.336	11729.0E6	6854.8E6	493.659	489.263

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

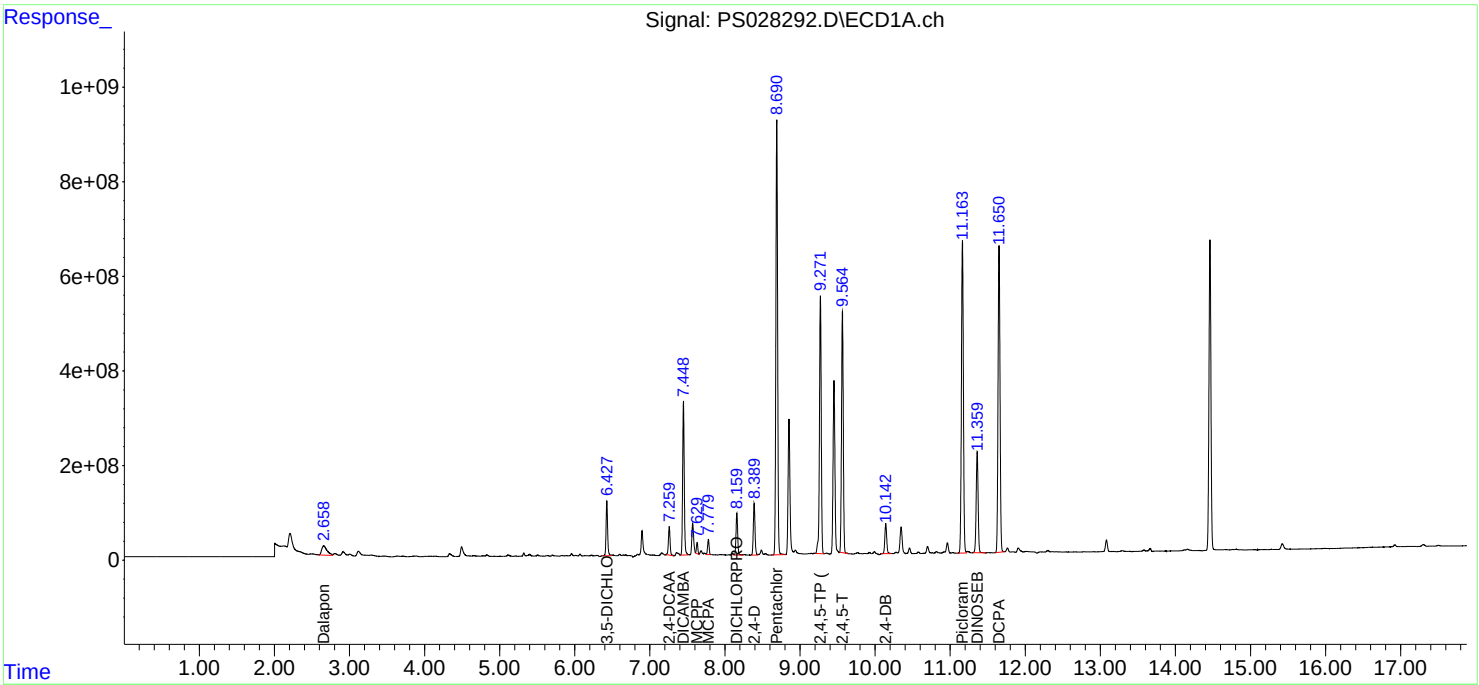
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028292.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 02:40
Operator : AR\AJ
Sample : P4578-06MSD
Misc :
ALS Vial : 29 Sample Multiplier: 1

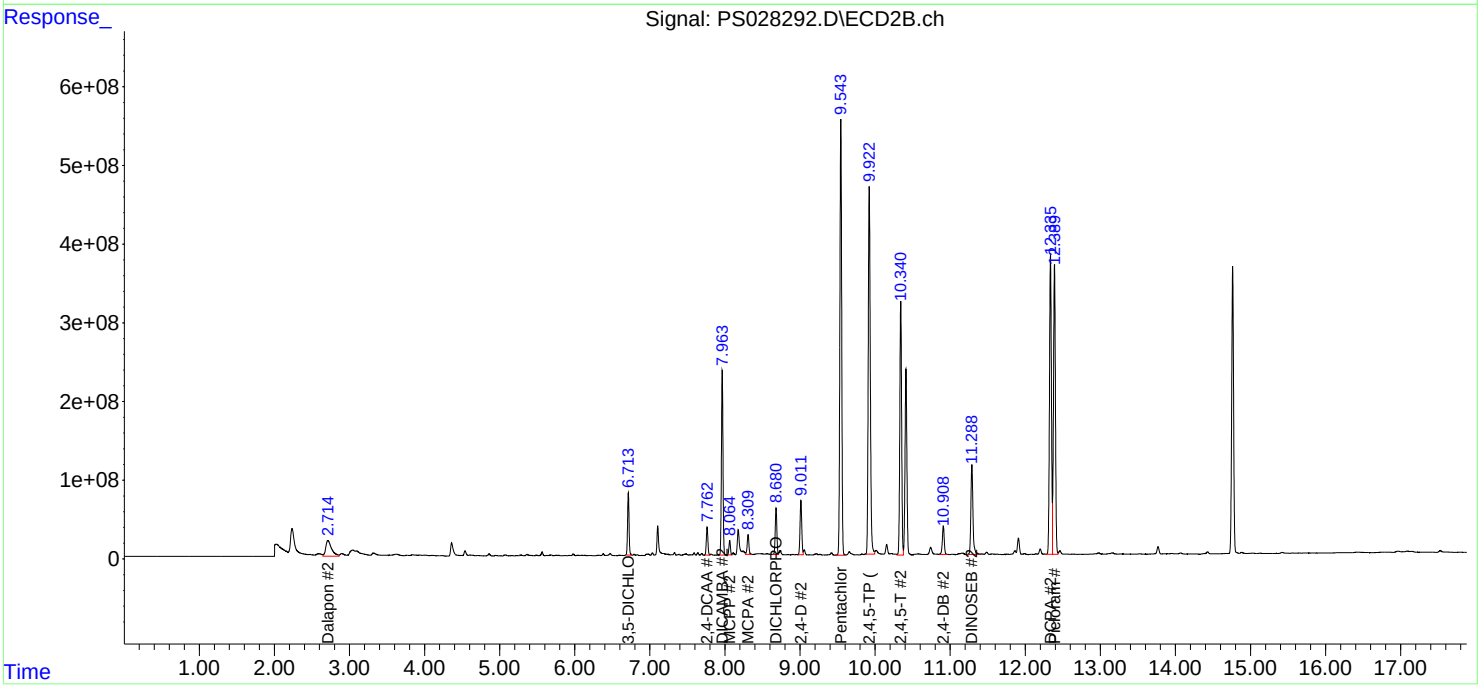
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 04:54:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Instrument :
ECD_S
ClientSampleId :
WB-305-BOTMSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PS110624	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC500	PS028254.D	2,4-DCAA	Abdul	11/8/2024 10:55:51 AM	Ankita	11/8/2024 11:03:48	Peak Integrated by Software
HSTDICC1000	PS028256.D	2,4-DCAA	Abdul	11/8/2024 10:55:55 AM	Ankita	11/8/2024 11:03:51	Peak Integrated by Software
HSTDICV750	PS028258.D	2,4-DCAA	Abdul	11/8/2024 10:55:59 AM	Ankita	11/8/2024 11:03:53	Peak Integrated by Software
PB164519BL	PS028262.D	2,4-DCAA #2	Abdul	11/8/2024 10:56:02 AM	Ankita	11/8/2024 11:03:55	Peak Integrated by Software
P4578-06	PS028265.D	2,4-DCAA	Abdul	11/8/2024 10:56:09 AM	Ankita	11/8/2024 11:03:58	Peak Integrated by Software
P4578-06	PS028265.D	2,4-DCAA #2	Abdul	11/8/2024 10:56:09 AM	Ankita	11/8/2024 11:03:58	Peak Integrated by Software
I.BLK	PS028271.D	2,4-DCAA	Abdul	11/8/2024 10:59:56 AM	Ankita	11/8/2024 11:04:10	Peak Integrated by Software
HSTDCCC750	PS028272.D	3,5-DICHLOROBENZOIC ACID #2	Abdul	11/8/2024 11:00:02 AM	Ankita	11/8/2024 11:04:13	Peak Integrated by Software
I.BLK	PS028283.D	2,4-DCAA	Abdul	11/8/2024 10:57:34 AM	Ankita	11/8/2024 11:04:56	Peak Integrated by Software
HSTDCCC750	PS028284.D	3,5-DICHLOROBENZOIC ACID #2	Abdul	11/8/2024 11:01:14 AM	Ankita	11/8/2024 11:04:58	Peak Integrated by Software
P4578-06MS	PS028291.D	2,4,5-TP (SILVEX)	Abdul	11/8/2024 10:57:53 AM	Ankita	11/8/2024 11:05:12	Peak Integrated by Software
P4578-06MS	PS028291.D	2,4-D	Abdul	11/8/2024 10:57:53 AM	Ankita	11/8/2024 11:05:12	Peak Integrated by Software
P4578-06MS	PS028291.D	2,4-DCAA	Abdul	11/8/2024 10:57:53 AM	Ankita	11/8/2024 11:05:12	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS110624	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4578-06MS	PS028291.D	2,4-DCAA #2	Abdul	11/8/2024 10:57:53 AM	Ankita	11/8/2024 11:05:12	Peak Integrated by Software
P4578-06MS	PS028291.D	MCPP	Abdul	11/8/2024 10:57:53 AM	Ankita	11/8/2024 11:05:12	Peak Integrated by Software
P4578-06MSD	PS028292.D	2,4,5-TP (SILVEX) #2	Abdul	11/8/2024 10:43:11 AM	Ankita	11/8/2024 10:46:43	Peak Integrated by Software
P4578-06MSD	PS028292.D	2,4-D	Abdul	11/8/2024 10:43:11 AM	Ankita	11/8/2024 10:46:43	Peak Integrated by Software
P4578-06MSD	PS028292.D	2,4-DCAA	Abdul	11/8/2024 10:43:11 AM	Ankita	11/8/2024 10:46:43	Peak Integrated by Software
P4578-06MSD	PS028292.D	2,4-DCAA #2	Abdul	11/8/2024 10:43:11 AM	Ankita	11/8/2024 10:46:43	Peak Integrated by Software
P4578-06MSD	PS028292.D	MCPP	Abdul	11/8/2024 10:43:11 AM	Ankita	11/8/2024 10:46:43	Peak Integrated by Software
P4578-08	PS028293.D	2,4-DCAA	Abdul	11/8/2024 10:57:57 AM	Ankita	11/8/2024 11:05:14	Peak Integrated by Software
P4578-08	PS028293.D	2,4-DCAA #2	Abdul	11/8/2024 10:57:57 AM	Ankita	11/8/2024 11:05:14	Peak Integrated by Software
HSTDCCC750	PS028297.D	2,4-D	Abdul	11/8/2024 10:43:24 AM	Ankita	11/8/2024 10:46:46	Peak Integrated by Software
HSTDCCC750	PS028297.D	2,4-DCAA	Abdul	11/8/2024 10:43:24 AM	Ankita	11/8/2024 10:46:46	Peak Integrated by Software
HSTDCCC750	PS028309.D	2,4,5-T	Abdul	11/8/2024 10:43:50 AM	Ankita	11/8/2024 10:46:57	Peak Integrated by Software
HSTDCCC750	PS028320.D	2,4,5-T	Abdul	11/8/2024 10:44:46 AM	Ankita	11/8/2024 10:46:10	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS110624	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028320.D	2,4-D	Abdul	11/8/2024 10:44:46 AM	Ankita	11/8/2024 10:46:10	Peak Integrated by Software
HSTDCCC750	PS028332.D	2,4,5-T	Abdul	11/8/2024 10:59:13 AM	Ankita	11/8/2024 11:05:48	Peak Integrated by Software
HSTDCCC750	PS028332.D	2,4-D	Abdul	11/8/2024 10:59:13 AM	Ankita	11/8/2024 11:05:48	Peak Integrated by Software
HSTDCCC750	PS028332.D	2,4-DCAA	Abdul	11/8/2024 10:59:13 AM	Ankita	11/8/2024 11:05:48	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS110724	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028335.D	2,4,5-T	Abdul	11/8/2024 10:40:12 AM	Ankita	11/8/2024 10:45:11	Peak Integrated by Software
HSTDCCC750	PS028335.D	3,5-DICHLOROBENZOIC ACID #2	Abdul	11/8/2024 10:40:12 AM	Ankita	11/8/2024 10:45:11	Peak Integrated by Software
PB164393TB	PS028345.D	2,4-DCAA #2	Abdul	11/8/2024 10:40:57 AM	Ankita	11/8/2024 10:45:31	Peak Integrated by Software
HSTDCCC750	PS028347.D	2,4,5-T	Abdul	11/8/2024 10:41:00 AM	Ankita	11/8/2024 10:45:33	Peak Integrated by Software
HSTDCCC750	PS028347.D	3,5-DICHLOROBENZOIC ACID #2	Abdul	11/8/2024 10:41:00 AM	Ankita	11/8/2024 10:45:33	Peak Integrated by Software

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM		
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM		
SubDirectory	PS110624	HP Acquire Method		HP Processing Method	ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028251.D	06 Nov 2024 09:00	AR\AJ	Ok
2	I.BLK	PS028252.D	06 Nov 2024 09:24	AR\AJ	Ok
3	HSTDICC200	PS028253.D	06 Nov 2024 09:48	AR\AJ	Ok
4	HSTDICC500	PS028254.D	06 Nov 2024 10:12	AR\AJ	Ok,M
5	HSTDICC750	PS028255.D	06 Nov 2024 10:36	AR\AJ	Ok
6	HSTDICC1000	PS028256.D	06 Nov 2024 11:00	AR\AJ	Ok,M
7	HSTDICC1500	PS028257.D	06 Nov 2024 11:24	AR\AJ	Ok
8	HSTDICV750	PS028258.D	06 Nov 2024 11:48	AR\AJ	Ok,M
9	I.BLK	PS028259.D	06 Nov 2024 12:14	AR\AJ	Ok
10	HSTDCCC750	PS028260.D	06 Nov 2024 12:38	AR\AJ	Ok
11	P4643-09RE	PS028261.D	06 Nov 2024 13:02	AR\AJ	Confirms
12	PB164519BL	PS028262.D	06 Nov 2024 13:26	AR\AJ	Ok,M
13	PB164519BS	PS028263.D	06 Nov 2024 13:50	AR\AJ	Ok
14	PB164393TB	PS028264.D	06 Nov 2024 14:14	AR\AJ	Not Ok
15	P4578-06	PS028265.D	06 Nov 2024 15:23	AR\AJ	Ok,M
16	P4682-01	PS028266.D	06 Nov 2024 15:50	AR\AJ	Ok,M
17	P4667-01	PS028267.D	06 Nov 2024 16:14	AR\AJ	Ok,M
18	P4667-05	PS028268.D	06 Nov 2024 16:39	AR\AJ	Ok,M
19	P4667-09	PS028269.D	06 Nov 2024 17:03	AR\AJ	Ok,M
20	P4667-13	PS028270.D	06 Nov 2024 17:27	AR\AJ	Ok,M
21	I.BLK	PS028271.D	06 Nov 2024 17:51	AR\AJ	Ok,M

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Daily Analysis Runlog For Sequence/QCBatch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM		
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM		
SubDirectory	PS110624	HP Acquire Method		HP Processing Method	ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	HSTDCCC750	PS028272.D	06 Nov 2024 18:15	AR\AJ	Ok,M
23	P4679-01	PS028273.D	06 Nov 2024 18:39	AR\AJ	Ok,M
24	P4680-01	PS028274.D	06 Nov 2024 19:03	AR\AJ	Ok,M
25	P4680-05	PS028275.D	06 Nov 2024 19:27	AR\AJ	Ok,M
26	P4695-01	PS028276.D	06 Nov 2024 19:51	AR\AJ	Ok,M
27	P4693-01	PS028277.D	06 Nov 2024 20:15	AR\AJ	Ok,M
28	P4693-05	PS028278.D	06 Nov 2024 20:39	AR\AJ	Ok,M
29	P4711-01	PS028279.D	06 Nov 2024 21:03	AR\AJ	Ok,M
30	P4711-06	PS028280.D	06 Nov 2024 21:27	AR\AJ	Ok,M
31	P4719-01	PS028281.D	06 Nov 2024 21:51	AR\AJ	Ok,M
32	PB164703BL	PS028282.D	06 Nov 2024 22:15	AR\AJ	Ok,M
33	I.BLK	PS028283.D	06 Nov 2024 22:39	AR\AJ	Ok,M
34	HSTDCCC750	PS028284.D	06 Nov 2024 23:03	AR\AJ	Ok,M
35	PB164703BS	PS028285.D	06 Nov 2024 23:51	AR\AJ	Ok
36	PB164494BS	PS028286.D	07 Nov 2024 00:15	AR\AJ	Ok,M
37	PB164494BSD	PS028287.D	07 Nov 2024 00:39	AR\AJ	Ok,M
38	PB164578BS	PS028288.D	07 Nov 2024 01:04	AR\AJ	Ok,M
39	P4694-01	PS028289.D	07 Nov 2024 01:28	AR\AJ	Ok,M
40	P4694-05	PS028290.D	07 Nov 2024 01:52	AR\AJ	Ok,M
41	P4578-06MS	PS028291.D	07 Nov 2024 02:16	AR\AJ	Ok,M
42	P4578-06MSD	PS028292.D	07 Nov 2024 02:40	AR\AJ	Ok,M
43	P4578-08	PS028293.D	07 Nov 2024 03:04	AR\AJ	Ok,M
44	PB164559BL	PS028294.D	07 Nov 2024 03:28	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM		
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM		
SubDirectory	PS110624	HP Acquire Method		HP Processing Method	ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	PB164559BS	PS028295.D	07 Nov 2024 03:52	AR\AJ	Ok,M
46	I.BLK	PS028296.D	07 Nov 2024 04:16	AR\AJ	Ok
47	HSTDCCC750	PS028297.D	07 Nov 2024 04:40	AR\AJ	Ok,M
48	P4601-19	PS028298.D	07 Nov 2024 05:28	AR\AJ	Ok,M
49	P4601-20	PS028299.D	07 Nov 2024 05:52	AR\AJ	Ok,M
50	P4601-21	PS028300.D	07 Nov 2024 06:16	AR\AJ	Ok,M
51	P4601-22	PS028301.D	07 Nov 2024 06:40	AR\AJ	Ok,M
52	P4601-23	PS028302.D	07 Nov 2024 07:04	AR\AJ	Ok,M
53	P4601-24	PS028303.D	07 Nov 2024 07:28	AR\AJ	Ok,M
54	P4601-25	PS028304.D	07 Nov 2024 07:52	AR\AJ	Ok,M
55	P4601-26	PS028305.D	07 Nov 2024 08:16	AR\AJ	Ok,M
56	P4601-27	PS028306.D	07 Nov 2024 08:40	AR\AJ	Ok,M
57	P4601-28	PS028307.D	07 Nov 2024 09:04	AR\AJ	Ok,M
58	I.BLK	PS028308.D	07 Nov 2024 09:28	AR\AJ	Ok
59	HSTDCCC750	PS028309.D	07 Nov 2024 09:52	AR\AJ	Ok,M
60	P4660-03	PS028310.D	07 Nov 2024 10:16	AR\AJ	Ok
61	P4660-07	PS028311.D	07 Nov 2024 10:40	AR\AJ	Ok,M
62	P4660-11	PS028312.D	07 Nov 2024 11:04	AR\AJ	Ok,M
63	P4660-03MS	PS028313.D	07 Nov 2024 11:28	AR\AJ	Ok,M
64	P4660-03MSD	PS028314.D	07 Nov 2024 11:52	AR\AJ	Ok,M
65	PB164752BL	PS028315.D	07 Nov 2024 12:16	AR\AJ	Ok,M
66	PB164752BS	PS028316.D	07 Nov 2024 12:40	AR\AJ	Ok
67	PB164560TB	PS028317.D	07 Nov 2024 13:04	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM		
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM		
SubDirectory	PS110624	HP Acquire Method		HP Processing Method	ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

68	P4368-07	PS028318.D	07 Nov 2024 13:28	AR\AJ	Ok,M
69	I.BLK	PS028319.D	07 Nov 2024 13:52	AR\AJ	Ok
70	HSTDCCC750	PS028320.D	07 Nov 2024 14:16	AR\AJ	Ok,M
71	P4601-29	PS028321.D	07 Nov 2024 14:40	AR\AJ	Not Ok
72	P4601-30	PS028322.D	07 Nov 2024 15:05	AR\AJ	Not Ok
73	P4601-31	PS028323.D	07 Nov 2024 15:29	AR\AJ	Not Ok
74	P4601-32	PS028324.D	07 Nov 2024 15:53	AR\AJ	Not Ok
75	P4601-33	PS028325.D	07 Nov 2024 16:17	AR\AJ	Not Ok
76	P4601-34	PS028326.D	07 Nov 2024 16:41	AR\AJ	Not Ok
77	P4601-35	PS028327.D	07 Nov 2024 17:05	AR\AJ	Not Ok
78	P4601-36	PS028328.D	07 Nov 2024 17:29	AR\AJ	Not Ok
79	P4601-37MS	PS028329.D	07 Nov 2024 17:53	AR\AJ	Not Ok
80	P4601-37MSD	PS028330.D	07 Nov 2024 18:17	AR\AJ	Not Ok
81	I.BLK	PS028331.D	07 Nov 2024 18:41	AR\AJ	Not Ok
82	HSTDCCC750	PS028332.D	07 Nov 2024 19:05	AR\AJ	Not Ok

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110724

Review By	Abdul	Review On	11/8/2024 10:41:23 AM		
Supervise By	Ankita	Supervise On	11/8/2024 10:45:46 AM		
SubDirectory	PS110724	HP Acquire Method		HP Processing Method	ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028333.D	07 Nov 2024 19:53	AR\AJ	Ok
2	I.BLK	PS028334.D	07 Nov 2024 20:17	AR\AJ	Ok
3	HSTDCCC750	PS028335.D	07 Nov 2024 20:41	AR\AJ	Ok,M
4	P4601-24	PS028336.D	07 Nov 2024 21:29	AR\AJ	Not Ok
5	P4601-25	PS028337.D	07 Nov 2024 21:53	AR\AJ	Not Ok
6	P4601-26	PS028338.D	07 Nov 2024 22:17	AR\AJ	Not Ok
7	P4602-43	PS028339.D	07 Nov 2024 22:41	AR\AJ	Not Ok
8	P4602-44MS	PS028340.D	07 Nov 2024 23:05	AR\AJ	Not Ok
9	P4602-45MSD	PS028341.D	07 Nov 2024 23:29	AR\AJ	Not Ok
10	P4602-40	PS028342.D	07 Nov 2024 23:53	AR\AJ	Not Ok
11	P4602-41MS	PS028343.D	08 Nov 2024 00:17	AR\AJ	Not Ok
12	P4602-42MSD	PS028344.D	08 Nov 2024 00:41	AR\AJ	Not Ok
13	PB164393TB	PS028345.D	08 Nov 2024 01:05	AR\AJ	Ok,M
14	I.BLK	PS028346.D	08 Nov 2024 01:29	AR\AJ	Ok
15	HSTDCCC750	PS028347.D	08 Nov 2024 01:53	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM		
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM		
SubDirectory	PS110624	HP Acquire Method		HP Processing Method	ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028251.D	06 Nov 2024 09:00		AR\AJ	Ok
2	I.BLK	I.BLK	PS028252.D	06 Nov 2024 09:24		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028253.D	06 Nov 2024 09:48		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS028254.D	06 Nov 2024 10:12		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS028255.D	06 Nov 2024 10:36		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028256.D	06 Nov 2024 11:00		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS028257.D	06 Nov 2024 11:24		AR\AJ	Ok
8	HSTDICV750	ICVPS110624	PS028258.D	06 Nov 2024 11:48		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS028259.D	06 Nov 2024 12:14		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028260.D	06 Nov 2024 12:38		AR\AJ	Ok
11	P4643-09RE	TP-9RE	PS028261.D	06 Nov 2024 13:02	Surrogate fail	AR\AJ	Confirms
12	PB164519BL	PB164519BL	PS028262.D	06 Nov 2024 13:26		AR\AJ	Ok,M
13	PB164519BS	PB164519BS	PS028263.D	06 Nov 2024 13:50		AR\AJ	Ok
14	PB164393TB	PB164393TB	PS028264.D	06 Nov 2024 14:14	Surrogate Fail	AR\AJ	Not Ok
15	P4578-06	WB-305-BOT	PS028265.D	06 Nov 2024 15:23		AR\AJ	Ok,M
16	P4682-01	BELL-SHOP-RAGS	PS028266.D	06 Nov 2024 15:50		AR\AJ	Ok,M
17	P4667-01	BP-F-6	PS028267.D	06 Nov 2024 16:14		AR\AJ	Ok,M
18	P4667-05	BP-F-5	PS028268.D	06 Nov 2024 16:39		AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM		
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM		
SubDirectory	PS110624	HP Acquire Method		HP Processing Method	ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4667-09	BP-F-10	PS028269.D	06 Nov 2024 17:03		AR\AJ	Ok,M
20	P4667-13	BP-F-7	PS028270.D	06 Nov 2024 17:27		AR\AJ	Ok,M
21	I.BLK	I.BLK	PS028271.D	06 Nov 2024 17:51		AR\AJ	Ok,M
22	HSTDCCC750	HSTDCCC750	PS028272.D	06 Nov 2024 18:15		AR\AJ	Ok,M
23	P4679-01	MH-1	PS028273.D	06 Nov 2024 18:39		AR\AJ	Ok,M
24	P4680-01	BP-F26	PS028274.D	06 Nov 2024 19:03		AR\AJ	Ok,M
25	P4680-05	BP-F25	PS028275.D	06 Nov 2024 19:27		AR\AJ	Ok,M
26	P4695-01	Z-01	PS028276.D	06 Nov 2024 19:51		AR\AJ	Ok,M
27	P4693-01	BP-G5-WC	PS028277.D	06 Nov 2024 20:15		AR\AJ	Ok,M
28	P4693-05	BP-G4-WC	PS028278.D	06 Nov 2024 20:39		AR\AJ	Ok,M
29	P4711-01	CF-613-COMP-16	PS028279.D	06 Nov 2024 21:03		AR\AJ	Ok,M
30	P4711-06	CF-613-COMP-17	PS028280.D	06 Nov 2024 21:27		AR\AJ	Ok,M
31	P4719-01	BAYAVE-STOCKPILE	PS028281.D	06 Nov 2024 21:51		AR\AJ	Ok,M
32	PB164703BL	PB164703BL	PS028282.D	06 Nov 2024 22:15		AR\AJ	Ok,M
33	I.BLK	I.BLK	PS028283.D	06 Nov 2024 22:39		AR\AJ	Ok,M
34	HSTDCCC750	HSTDCCC750	PS028284.D	06 Nov 2024 23:03		AR\AJ	Ok,M
35	PB164703BS	PB164703BS	PS028285.D	06 Nov 2024 23:51		AR\AJ	Ok
36	PB164494BS	PB164494BS	PS028286.D	07 Nov 2024 00:15		AR\AJ	Ok,M
37	PB164494BSD	PB164494BSD	PS028287.D	07 Nov 2024 00:39		AR\AJ	Ok,M

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM		
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM		
SubDirectory	PS110624	HP Acquire Method		HP Processing Method	ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	PB164578BS	PB164578BS	PS028288.D	07 Nov 2024 01:04		AR\AJ	Ok,M
39	P4694-01	Z-03A	PS028289.D	07 Nov 2024 01:28		AR\AJ	Ok,M
40	P4694-05	Z-04	PS028290.D	07 Nov 2024 01:52		AR\AJ	Ok,M
41	P4578-06MS	WB-305-BOTMS	PS028291.D	07 Nov 2024 02:16	Some compound recovery fail	AR\AJ	Ok,M
42	P4578-06MSD	WB-305-BOTMSD	PS028292.D	07 Nov 2024 02:40	Some compound recovery fail	AR\AJ	Ok,M
43	P4578-08	WB-305-BOT-1	PS028293.D	07 Nov 2024 03:04		AR\AJ	Ok,M
44	PB164559BL	PB164559BL	PS028294.D	07 Nov 2024 03:28		AR\AJ	Ok,M
45	PB164559BS	PB164559BS	PS028295.D	07 Nov 2024 03:52		AR\AJ	Ok,M
46	I.BLK	I.BLK	PS028296.D	07 Nov 2024 04:16		AR\AJ	Ok
47	HSTDCCC750	HSTDCCC750	PS028297.D	07 Nov 2024 04:40		AR\AJ	Ok,M
48	P4601-19	C0PI0	PS028298.D	07 Nov 2024 05:28		AR\AJ	Ok,M
49	P4601-20	C0PI2	PS028299.D	07 Nov 2024 05:52		AR\AJ	Ok,M
50	P4601-21	C0PI6	PS028300.D	07 Nov 2024 06:16		AR\AJ	Ok,M
51	P4601-22	C0PI8	PS028301.D	07 Nov 2024 06:40		AR\AJ	Ok,M
52	P4601-23	C0PI9	PS028302.D	07 Nov 2024 07:04		AR\AJ	Ok,M
53	P4601-24	CC0P1	PS028303.D	07 Nov 2024 07:28		AR\AJ	Ok,M
54	P4601-25	CC0P3	PS028304.D	07 Nov 2024 07:52		AR\AJ	Ok,M
55	P4601-26	CC0P5	PS028305.D	07 Nov 2024 08:16		AR\AJ	Ok,M
56	P4601-27	CC0P7	PS028306.D	07 Nov 2024 08:40		AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM		
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM		
SubDirectory	PS110624	HP Acquire Method		HP Processing Method	ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

57	P4601-28	CC0P9	PS028307.D	07 Nov 2024 09:04		AR\AJ	Ok,M
58	I.BLK	I.BLK	PS028308.D	07 Nov 2024 09:28		AR\AJ	Ok
59	HSTDCCC750	HSTDCCC750	PS028309.D	07 Nov 2024 09:52		AR\AJ	Ok,M
60	P4660-03	WC-TA2-01-C	PS028310.D	07 Nov 2024 10:16		AR\AJ	Ok
61	P4660-07	WC-WOOD-01-C	PS028311.D	07 Nov 2024 10:40		AR\AJ	Ok,M
62	P4660-11	WC-CONCRETE-01-C	PS028312.D	07 Nov 2024 11:04		AR\AJ	Ok,M
63	P4660-03MS	WC-TA2-01-CMS	PS028313.D	07 Nov 2024 11:28		AR\AJ	Ok,M
64	P4660-03MSD	WC-TA2-01-CMSD	PS028314.D	07 Nov 2024 11:52		AR\AJ	Ok,M
65	PB164752BL	PB164752BL	PS028315.D	07 Nov 2024 12:16		AR\AJ	Ok,M
66	PB164752BS	PB164752BS	PS028316.D	07 Nov 2024 12:40		AR\AJ	Ok
67	PB164560TB	PB164560TB	PS028317.D	07 Nov 2024 13:04		AR\AJ	Ok,M
68	P4368-07	LOD-MDL-WATER-01-(	PS028318.D	07 Nov 2024 13:28		AR\AJ	Ok,M
69	I.BLK	I.BLK	PS028319.D	07 Nov 2024 13:52		AR\AJ	Ok
70	HSTDCCC750	HSTDCCC750	PS028320.D	07 Nov 2024 14:16		AR\AJ	Ok,M
71	P4601-29	CC0Q1	PS028321.D	07 Nov 2024 14:40	Closing CCC Fail	AR\AJ	Not Ok
72	P4601-30	CC0Q6	PS028322.D	07 Nov 2024 15:05	Closing CCC Fail	AR\AJ	Not Ok
73	P4601-31	CC0Q8	PS028323.D	07 Nov 2024 15:29	Closing CCC Fail	AR\AJ	Not Ok
74	P4601-32	CC0R3	PS028324.D	07 Nov 2024 15:53	Closing CCC Fail	AR\AJ	Not Ok
75	P4601-33	CC0R4	PS028325.D	07 Nov 2024 16:17	Closing CCC Fail	AR\AJ	Not Ok

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM		
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM		
SubDirectory	PS110624	HP Acquire Method		HP Processing Method	ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

76	P4601-34	CC0R5	PS028326.D	07 Nov 2024 16:41	Closing CCC Fail	AR\AJ	Not Ok
77	P4601-35	CC0R6	PS028327.D	07 Nov 2024 17:05	Closing CCC Fail	AR\AJ	Not Ok
78	P4601-36	CC0R7	PS028328.D	07 Nov 2024 17:29	Closing CCC Fail	AR\AJ	Not Ok
79	P4601-37MS	CC0R7MS	PS028329.D	07 Nov 2024 17:53	Closing CCC Fail	AR\AJ	Not Ok
80	P4601-37MSD	CC0R7MSD	PS028330.D	07 Nov 2024 18:17	Closing CCC Fail	AR\AJ	Not Ok
81	I.BLK	I.BLK	PS028331.D	07 Nov 2024 18:41	Closing CCC Fail	AR\AJ	Not Ok
82	HSTDCCC750	HSTDCCC750	PS028332.D	07 Nov 2024 19:05	CCC Fail	AR\AJ	Not Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110724

Review By	Abdul	Review On	11/8/2024 10:41:23 AM		
Supervise By	Ankita	Supervise On	11/8/2024 10:45:46 AM		
SubDirectory	PS110724	HP Acquire Method		HP Processing Method	ps110624 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028333.D	07 Nov 2024 19:53		AR\AJ	Ok
2	I.BLK	I.BLK	PS028334.D	07 Nov 2024 20:17		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028335.D	07 Nov 2024 20:41	CCC low	AR\AJ	Ok,M
4	P4601-24	CC0P1	PS028336.D	07 Nov 2024 21:29	Opening and closing CCC Fail	AR\AJ	Not Ok
5	P4601-25	CC0P3	PS028337.D	07 Nov 2024 21:53	Opening and closing CCC Fail	AR\AJ	Not Ok
6	P4601-26	CC0P5	PS028338.D	07 Nov 2024 22:17	Opening and closing CCC Fail	AR\AJ	Not Ok
7	P4602-43	CC0R8	PS028339.D	07 Nov 2024 22:41	Opening and closing CCC Fail	AR\AJ	Not Ok
8	P4602-44MS	CC0R8MS	PS028340.D	07 Nov 2024 23:05	Some compound recovery fail	AR\AJ	Not Ok
9	P4602-45MSD	CC0R8MSD	PS028341.D	07 Nov 2024 23:29	Some compound recovery fail	AR\AJ	Not Ok
10	P4602-40	CC0R6	PS028342.D	07 Nov 2024 23:53	Opening and closing CCC Fail	AR\AJ	Not Ok
11	P4602-41MS	CC0R6MS	PS028343.D	08 Nov 2024 00:17	Some compound recovery fail	AR\AJ	Not Ok
12	P4602-42MSD	CC0R6MSD	PS028344.D	08 Nov 2024 00:41	Some compound recovery fail dalpon rpd fail	AR\AJ	Not Ok
13	PB164393TB	PB164393TB	PS028345.D	08 Nov 2024 01:05		AR\AJ	Ok,M
14	I.BLK	I.BLK	PS028346.D	08 Nov 2024 01:29		AR\AJ	Ok
15	HSTDCCC750	HSTDCCC750	PS028347.D	08 Nov 2024 01:53	CCC low	AR\AJ	Ok,M

M : Manual Integration

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TCLP EXTRACTION LOGPAGE

PB164393

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 114771

Start Prep Date : 10/25/2024 **Time :** 17:40

End Prep Date : 10/26/2024 **Time :** 10:37

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Tumbler T-1 / T-2 CHECKED,30 RPM. Particle size reduction is not required. p4578-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/26/24 11:45	JP TCLP Room	JP [illegible]
	Preparation Group	Analysis Group

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TCLP EXTRACTION LOGPAGE

PB164393

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4452-03	ETGI-285	01	100.03	2000	N/A	N/A	N/A	11.0	1.5	T-1
P4545-02	VNJ-215	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4547-04	BP-F-21	03	100.01	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4547-08	BP-F-20	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4561-04	BP-F-19	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4561-08	BP-F-18	06	100.04	2000	N/A	N/A	N/A	4.0	1.0	T-1
P4567-04	WC-1	07	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4567-08	WC-2	08	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4567-12	WC-3	09	100.04	2000	N/A	N/A	N/A	7.6	1.5	T-1
P4574-03	GRAVEL-1	10	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4574-06	GRAVEL-2	11	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
P4574-08	CONCRETE-1	12	100.02	2000	N/A	N/A	N/A	10.5	1.0	T-2
P4574-10	CONCRETE-2	13	100.02	2000	N/A	N/A	N/A	10.5	1.5	T-2
P4574-12	CONCRETE-3	14	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-2
P4578-06	WB-305-BOT	15	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-2
P4578-08	WB-305-BOT-1	16	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-2
PB164393TB	LEB393	17	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4452-03	ETGI-285	N/A	N/A	N/A	N/A	100	N/A
P4545-02	VNJ-215	N/A	N/A	N/A	N/A	100	N/A
P4547-04	BP-F-21	N/A	N/A	N/A	N/A	100	N/A
P4547-08	BP-F-20	N/A	N/A	N/A	N/A	100	N/A
P4561-04	BP-F-19	N/A	N/A	N/A	N/A	100	N/A
P4561-08	BP-F-18	N/A	N/A	N/A	N/A	100	N/A
P4567-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
P4567-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
P4567-12	WC-3	N/A	N/A	N/A	N/A	100	N/A
P4574-03	GRAVEL-1	N/A	N/A	N/A	N/A	100	N/A
P4574-06	GRAVEL-2	N/A	N/A	N/A	N/A	100	N/A
P4574-08	CONCRETE-1	N/A	N/A	N/A	N/A	100	N/A
P4574-10	CONCRETE-2	N/A	N/A	N/A	N/A	100	N/A
P4574-12	CONCRETE-3	N/A	N/A	N/A	N/A	100	N/A
P4578-06	WB-305-BOT	N/A	N/A	N/A	N/A	100	N/A
P4578-08	WB-305-BOT-1	N/A	N/A	N/A	N/A	100	N/A
PB164393TB	LEB393	N/A	N/A	N/A	N/A	N/A	N/A

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TCLP Fluid Determination

PB164393

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4452-03	ETGI-285	5.02	96.5	11.0	4.0	#1	4.93
P4545-02	VNJ-215	5.02	96.5	7.6	2.5	#1	4.93
P4547-04	BP-F-21	5.00	96.5	6.2	2.0	#1	4.93
P4547-08	BP-F-20	5.03	96.5	8.2	3.0	#1	4.93
P4561-04	BP-F-19	5.02	96.5	7.6	2.5	#1	4.93
P4561-08	BP-F-18	5.02	96.5	7.0	2.5	#1	4.93
P4567-04	WC-1	5.03	96.5	9.1	4.0	#1	4.93
P4567-08	WC-2	5.02	96.5	9.5	4.0	#1	4.93
P4567-12	WC-3	5.02	96.5	7.2	3.0	#1	4.93
P4574-03	GRAVEL-1	5.02	96.5	6.0	2.0	#1	4.93
P4574-06	GRAVEL-2	5.03	96.5	5.6	1.5	#1	4.93
P4574-08	CONCRETE-1	5.02	96.5	11.0	4.0	#1	4.93
P4574-10	CONCRETE-2	5.03	96.5	11.0	4.0	#1	4.93
P4574-12	CONCRETE-3	5.02	96.5	11.5	4.5	#1	4.93
P4578-06	WB-305-BOT	5.03	96.5	7.6	2.5	#1	4.93
P4578-08	WB-305-BOT-1	5.02	96.5	8.2	3.0	#1	4.93
PB164393TB	LEB393	N/A	N/A	N/A	N/A	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4545 **WorkList ID :** 184760 **Department :** TCLP Extraction **Date :** 10-25-2024 07:58:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4452-03	ETGI-285	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/18/2024	1311
P4545-02	VNJ-215	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/24/2024	1311
P4547-04	BP-F-21	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/24/2024	1311
P4547-08	BP-F-20	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/24/2024	1311
P4561-04	BP-F-19	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4561-08	BP-F-18	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4567-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4567-08	WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4567-12	WC-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4574-03	GRAVEL-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-06	GRAVEL-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-08	CONCRETE-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-10	CONCRETE-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-12	CONCRETE-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4578-06	WB-305-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K63	10/25/2024	1311
P4578-08	WB-305-BOT-1	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K63	10/25/2024	1311

Date/Time 10/25/24 17:25
Raw Sample Received by: SO (w/ C)
Raw Sample Relinquished by: J.C (SM)

Date/Time 10/25/24 19:30
Raw Sample Received by: J. C (SM)
Raw Sample Relinquished by: SO w/ C

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164519

SOP ID:	M8151A-Herbicide-22				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/28/2024
Matrix :	Water			**Extraction Start Time :**	08:45
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	10/28/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:30
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP23699
Surrogate	1.0ML	5000 PPB	PP23907
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Ether	N/A	E3370
Acidified Na2SO4	N/A	EP2503
NAOH 6N	N/A	EP2553
NACL	N/A	M4459
METHANOL	N/A	V14150
ISO OCTANE	N/A	E3554
Diazomethane	N/A	E3P2529
Hexane	N/A	EP3819
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH adjusted with HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze,40ML Vial Lot # 03-40 BTS721.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/24	RP (Ext 2nd)	T. P Ext 1st 3 1st
16:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164519

Analytical Method: M8151A-Herbicide-22 **Concentration Date:** 10/28/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164393TB	PB164393TB	TCLP Herbicide	100	6	ritesh	Niha	10			
PB164519BL	HBLK519	TCLP Herbicide	1000	6	ritesh	Niha	10			
PB164519BS	HLCS519	TCLP Herbicide	1000	6	ritesh	Niha	10			
P4578-06	WB-305-BOT	TCLP Herbicide	100	6	ritesh	Niha	10	A		
P4578-06MS	WB-305-BOTMS	TCLP Herbicide	100	6	ritesh	Niha	10	A		
P4578-06MSD	WB-305-BOTMSD	TCLP Herbicide	100	6	ritesh	Niha	10	A		
P4578-08	WB-305-BOT-1	TCLP Herbicide	100	6	ritesh	Niha	10	A		

* **Extracts relinquished on the same date as received.**

10/28/24

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TCLP EXTRACTION LOGPAGE

PB164393

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4452-03	ETGI-285	01	100.03	2000	N/A	N/A	N/A	11.0	1.5	T-1
P4545-02	VNJ-215	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4547-04	BP-F-21	03	100.01	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4547-08	BP-F-20	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4561-04	BP-F-19	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4561-08	BP-F-18	06	100.04	2000	N/A	N/A	N/A	4.0	1.0	T-1
P4567-04	WC-1	07	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4567-08	WC-2	08	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4567-12	WC-3	09	100.04	2000	N/A	N/A	N/A	7.6	1.5	T-1
P4574-03	GRAVEL-1	10	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4574-06	GRAVEL-2	11	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
P4574-08	CONCRETE-1	12	100.02	2000	N/A	N/A	N/A	10.5	1.0	T-2
P4574-10	CONCRETE-2	13	100.02	2000	N/A	N/A	N/A	10.5	1.5	T-2
P4574-12	CONCRETE-3	14	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-2
P4578-06	WB-305-BOT	15	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-2
P4578-08	WB-305-BOT-1	16	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-2
PB164393TB	LEB393	17	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

10/26/2024
11:50

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LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	**WB-305-SW**	**WATER**			**10/25/24**			**10/25/24**
			PCB	8082A		10/29/24	10/29/24	
			EPH	NJEPH		10/30/24	10/31/24	
P4578-02	**WB-305-SW-1**	**WATER**			**10/25/24**			**10/25/24**
			PCB	8082A		10/29/24	10/29/24	
			EPH	NJEPH		10/30/24	10/31/24	
P4578-03	**WB-305-TOP**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
			EPH	NJEPH		10/30/24	10/30/24	
			EPH	NJEPH		10/30/24	10/31/24	
P4578-04	**WB-305-TOP-1**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
			EPH	NJEPH		10/30/24	10/30/24	
			EPH	NJEPH		10/30/24	10/31/24	
P4578-05	**WB-305-BOT**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
			EPH	NJEPH		10/30/24	10/30/24	
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP Herbicide	8151A		10/28/24	11/06/24	
			TCLP Pesticide	8081B		10/26/24	10/29/24	
P4578-07	**WB-305-BOT-1**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
			EPH	NJEPH		10/30/24	10/30/24	
			EPH	NJEPH		10/30/24	10/31/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**

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LAB CHRONICLE

TCLP Herbicide	8151A	10/28/24	11/07/24
TCLP Pesticide	8081B	10/26/24	10/29/24

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:50	10/31/24 2:59	PB164532

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FE050920.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FE050920.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FE050920.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FE050920.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FE050920.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FG014591.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FG014591.D
Aromatic C16-C21	Aromatic C16-C21	36.0	J	1	12.7	50.0	ug/l	FG014591.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FG014591.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050920.D	1	10/30/24	10/31/24	PB164532

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		41.8		40 - 140	84%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4578-01	Acq On:	31 Oct 2024 02:59
Client Sample ID:	WB-305-SW	Operator:	YP\AJ
Data file:	FE050920.D	Misc:	
Instrument:	FID_E	ALS Vial:	29
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.144	6.762	0	0	300	ug/ml
Aliphatic C12-C16	6.763	10.194	0	0	200	ug/ml
Aliphatic C16-C21	10.195	13.554	0	0	300	ug/ml
Aliphatic C21-C28	13.555	17.208	0	0	400	ug/ml
Aliphatic C28-C40	17.209	22.057	0	0	600	ug/ml
Aliphatic EPH	3.144	22.057	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.292	13.292	4946678	41.82		ug/ml
Aliphatic C9-C28	3.144	17.208	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014591.D	1	10/30/24	10/31/24	PB164532

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	36.0	J	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.6		40 - 140	107%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	52.5		40 - 140	105%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.9		40 - 140	88%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4578-01	Acq On:	31 Oct 2024 00:42
Client Sample ID:	WB-305-SW	Operator:	YP\AJ
Data file:	FG014591.D	Misc:	
Instrument:	FID_G	ALS Vial:	43
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.519	6.389	140541	1.007	200	ug/ml
Aromatic C12-C16	6.390	9.089	54915	0.378	300	ug/ml
Aromatic C16-C21	9.090	13.408	2610293	18.023	500	ug/ml
Aromatic C21-C36	13.409	18.851	0	0	800	ug/ml
Aromatic EPH	4.519	18.851	2805749	19.409		ug/ml
ortho-Terphenyl (SURR)	11.961	11.961	6505374	43.94		ug/ml
2-Bromonaphthalene (SURR)	8.014	8.014	6728809	53.6		ug/ml
2-Flurobiphenyl (SURR)	8.889	8.889	4519510	52.47		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:50	10/31/24 3:29	PB164532

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FE050921.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FE050921.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FE050921.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FE050921.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FE050921.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FG014592.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FG014592.D
Aromatic C16-C21	Aromatic C16-C21	30.9	J	1	12.7	50.0	ug/l	FG014592.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FG014592.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050921.D	1	10/30/24	10/31/24	PB164532

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		38.1		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4578-02	Acq On:	31 Oct 2024 03:29
Client Sample ID:	WB-305-SW-1	Operator:	YP\AJ
Data file:	FE050921.D	Misc:	
Instrument:	FID_E	ALS Vial:	30
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.144	6.762	0	0	300	ug/ml
Aliphatic C12-C16	6.763	10.194	0	0	200	ug/ml
Aliphatic C16-C21	10.195	13.554	0	0	300	ug/ml
Aliphatic C21-C28	13.555	17.208	0	0	400	ug/ml
Aliphatic C28-C40	17.209	22.057	0	0	600	ug/ml
Aliphatic EPH	3.144	22.057	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.292	13.292	4512059	38.14		ug/ml
Aliphatic C9-C28	3.144	17.208	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014592.D	1	10/30/24	10/31/24	PB164532

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	30.9	J	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.7		40 - 140	103%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.5		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.4		40 - 140	81%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4578-02	Acq On:	31 Oct 2024 01:11
Client Sample ID:	WB-305-SW-1	Operator:	YP\AJ
Data file:	FG014592.D	Misc:	
Instrument:	FID_G	ALS Vial:	44
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.519	6.389	121947	0.874	200	ug/ml
Aromatic C12-C16	6.390	9.089	0	0	300	ug/ml
Aromatic C16-C21	9.090	13.408	2237667	15.451	500	ug/ml
Aromatic C21-C36	13.409	18.851	0	0	800	ug/ml
Aromatic EPH	4.519	18.851	2359614	16.325		ug/ml
ortho-Terphenyl (SURR)	11.960	11.960	5979246	40.38		ug/ml
2-Bromonaphthalene (SURR)	8.014	8.014	6487135	51.68		ug/ml
2-Flurobiphenyl (SURR)	8.889	8.889	4346977	50.47		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	53.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:20	10/31/24 0:08	PB164525

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.82	J	1	0.71	1.86	mg/kg	FC067577.D
Aliphatic C12-C16	Aliphatic C12-C16	4.02		1	0.45	1.24	mg/kg	FC067577.D
Aliphatic C16-C21	Aliphatic C16-C21	1.69	J	1	0.56	1.86	mg/kg	FC067577.D
Aliphatic C21-C28	Aliphatic C21-C28	3.68		1	1.48	2.47	mg/kg	FC067577.D
Aliphatic C28-C40	Aliphatic C28-C40	3.34	U	1	3.34	3.71	mg/kg	FC067577.D
Aromatic C10-C12	Aromatic C10-C12	1.72		1	0.56	1.24	mg/kg	FD048626.D
Aromatic C12-C16	Aromatic C12-C16	1.55	J	1	0.63	1.86	mg/kg	FD048626.D
Aromatic C16-C21	Aromatic C16-C21	5.56		1	1.78	3.09	mg/kg	FD048626.D
Aromatic C21-C36	Aromatic C21-C36	6.03		1	3.71	4.95	mg/kg	FD048626.D
Total AliphaticEPH	Total AliphaticEPH	10.2	J		6.53	11.1	mg/kg	
Total AromaticEPH	Total AromaticEPH	14.9			6.68	11.1	mg/kg	
Total EPH	Total EPH	25.1			13.2	22.3	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	53.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067577.D	1	10/30/24	10/31/24	PB164525

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.82	J	0.71	1.86	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		4.02		0.45	1.24	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		1.69	J	0.56	1.86	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		3.68		1.48	2.47	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		3.34	U	3.34	3.71	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		30.1		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4578-03	Acq On:	31 Oct 2024 00:08
Client Sample ID:	WB-305-TOP	Operator:	YP/AJ
Data file:	FC067577.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.453	897620	6.626	300	ug/ml
Aliphatic C12-C16	6.454	9.842	4279108	32.496	200	ug/ml
Aliphatic C16-C21	9.843	13.199	1735952	13.644	300	ug/ml
Aliphatic C21-C28	13.200	16.852	3568706	29.717	400	ug/ml
Aliphatic C28-C40	16.853	21.694	2728897	26.994	600	ug/ml
Aliphatic EPH	3.174	21.694	13210283	109.476		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	3245347	30.05		ug/ml
Aliphatic C9-C28	3.174	16.852	10481386	82.483	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	53.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048626.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	1.72		0.56	1.24	mg/kg
Aromatic C12-C16	Aromatic C12-C16	1.55	J	0.63	1.86	mg/kg
Aromatic C16-C21	Aromatic C16-C21	5.56		1.78	3.09	mg/kg
Aromatic C21-C36	Aromatic C21-C36	6.03		3.71	4.95	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	45.0		40 - 140	90%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	44.4		40 - 140	89%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	20.1		40 - 140	40%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4578-03	Acq On:	30 Oct 2024 19:18
Client Sample ID:	WB-305-TOP	Operator:	YP/AJ
Data file:	FD048626.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	2454283	13.929	200	ug/ml
Aromatic C12-C16	5.813	8.417	2225151	12.552	300	ug/ml
Aromatic C16-C21	8.418	12.679	7360344	44.926	500	ug/ml
Aromatic C21-C36	12.680	18.085	7452316	48.799	800	ug/ml
Aromatic EPH	4.094	18.085	19492094	120.206		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	6830901	45.01		ug/ml
2-Flurobiphenyl (SURR)	8.221	8.221	4360661	44.41		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	3427636	20.12		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	58.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:20	10/31/24 0:45	PB164525

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.65	U	1	0.65	1.70	mg/kg	FC067578.D
Aliphatic C12-C16	Aliphatic C12-C16	0.90	J	1	0.41	1.13	mg/kg	FC067578.D
Aliphatic C16-C21	Aliphatic C16-C21	0.77	J	1	0.51	1.70	mg/kg	FC067578.D
Aliphatic C21-C28	Aliphatic C21-C28	1.36	U	1	1.36	2.26	mg/kg	FC067578.D
Aliphatic C28-C40	Aliphatic C28-C40	3.06	U	1	3.06	3.40	mg/kg	FC067578.D
Aromatic C10-C12	Aromatic C10-C12	0.51	U	1	0.51	1.13	mg/kg	FD048627.D
Aromatic C12-C16	Aromatic C12-C16	0.58	U	1	0.58	1.70	mg/kg	FD048627.D
Aromatic C16-C21	Aromatic C16-C21	1.63	U	1	1.63	2.83	mg/kg	FD048627.D
Aromatic C21-C36	Aromatic C21-C36	3.40	U	1	3.40	4.53	mg/kg	FD048627.D
Total AliphaticEPH	Total AliphaticEPH	5.98	U		5.98	10.2	mg/kg	
Total AromaticEPH	Total AromaticEPH	6.12	U		6.12	10.2	mg/kg	
Total EPH	Total EPH	12.1	U		12.1	20.4	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	58.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067578.D	1	10/30/24	10/31/24	PB164525

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.65	U	0.65	1.70	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.90	J	0.41	1.13	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.77	J	0.51	1.70	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.36	U	1.36	2.26	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		3.06	U	3.06	3.40	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		24.0		40 - 140	48%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4578-04	Acq On:	31 Oct 2024 00:45
Client Sample ID:	WB-305-TOP-1	Operator:	YP/AJ
Data file:	FC067578.D	Misc:	
Instrument:	FID_C	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.453	446942	3.299	300	ug/ml
Aliphatic C12-C16	6.454	9.842	1043029	7.921	200	ug/ml
Aliphatic C16-C21	9.843	13.199	868066	6.823	300	ug/ml
Aliphatic C21-C28	13.200	16.852	713798	5.944	400	ug/ml
Aliphatic C28-C40	16.853	21.694	2237970	22.138	600	ug/ml
Aliphatic EPH	3.174	21.694	5309805	46.124		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.930	12.930	2587727	23.96		ug/ml
Aliphatic C9-C28	3.174	16.852	3071835	23.987	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	58.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048627.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.51	U	0.51	1.13	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.58	U	0.58	1.70	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.63	U	1.63	2.83	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.40	U	3.40	4.53	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.1		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.1		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.2		40 - 140	48%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4578-04	Acq On:	30 Oct 2024 19:54
Client Sample ID:	WB-305-TOP-1	Operator:	YP/AJ
Data file:	FD048627.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	270650	1.536	200	ug/ml
Aromatic C12-C16	5.813	8.417	303924	1.714	300	ug/ml
Aromatic C16-C21	8.418	12.679	2138542	13.053	500	ug/ml
Aromatic C21-C36	12.680	18.085	1695863	11.105	800	ug/ml
Aromatic EPH	4.094	18.085	4408979	27.409		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	8509675	56.07		ug/ml
2-Flurobiphenyl (SURR)	8.221	8.221	5606681	57.1		ug/ml
ortho-Terphenyl (SURR)	11.256	11.256	4117839	24.17		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.1
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:20	10/30/24 19:18	PB164525

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.46	U	1	0.46	1.22	mg/kg	FC067571.D
Aliphatic C12-C16	Aliphatic C12-C16	0.29	U	1	0.29	0.81	mg/kg	FC067571.D
Aliphatic C16-C21	Aliphatic C16-C21	0.37	U	1	0.37	1.22	mg/kg	FC067571.D
Aliphatic C21-C28	Aliphatic C21-C28	0.97	U	1	0.97	1.62	mg/kg	FC067571.D
Aliphatic C28-C40	Aliphatic C28-C40	2.19	U	1	2.19	2.43	mg/kg	FC067571.D
Aromatic C10-C12	Aromatic C10-C12	0.37	U	1	0.37	0.81	mg/kg	FD048628.D
Aromatic C12-C16	Aromatic C12-C16	0.41	U	1	0.41	1.22	mg/kg	FD048628.D
Aromatic C16-C21	Aromatic C16-C21	1.17	U	1	1.17	2.03	mg/kg	FD048628.D
Aromatic C21-C36	Aromatic C21-C36	2.43	U	1	2.43	3.24	mg/kg	FD048628.D
Total AliphaticEPH	Total AliphaticEPH	4.28	U		4.28	7.30	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.38	U		4.38	7.30	mg/kg	
Total EPH	Total EPH	8.66	U		8.66	14.6	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.1
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067571.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.46	U	0.46	1.22	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.29	U	0.29	0.81	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.37	U	0.37	1.22	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.97	U	0.97	1.62	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.19	U	2.19	2.43	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		51.1		40 - 140	102%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4578-05	Acq On:	30 Oct 2024 19:18
Client Sample ID:	WB-305-BOT	Operator:	YP/AJ
Data file:	FC067571.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.453	49826	0.368	300	ug/ml
Aliphatic C12-C16	6.454	9.842	204741	1.555	200	ug/ml
Aliphatic C16-C21	9.843	13.199	0	0	300	ug/ml
Aliphatic C21-C28	13.200	16.852	158301	1.318	400	ug/ml
Aliphatic C28-C40	16.853	21.694	282099	2.79	600	ug/ml
Aliphatic EPH	3.174	21.694	694967	6.031		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.933	12.933	5516704	51.09		ug/ml
Aliphatic C9-C28	3.174	16.852	412868	3.241	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.1
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048628.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.37	U	0.37	0.81	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.41	U	0.41	1.22	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.17	U	1.17	2.03	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.43	U	2.43	3.24	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.4		40 - 140	103%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	49.5		40 - 140	99%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.0		40 - 140	70%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4578-05	Acq On:	30 Oct 2024 20:30
Client Sample ID:	WB-305-BOT	Operator:	YP/AJ
Data file:	FD048628.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	62243	0.353	200	ug/ml
Aromatic C12-C16	5.813	8.417	47188	0.266	300	ug/ml
Aromatic C16-C21	8.418	12.679	1611537	9.836	500	ug/ml
Aromatic C21-C36	12.680	18.085	1658638	10.861	800	ug/ml
Aromatic EPH	4.094	18.085	3379606	21.317		ug/ml
2-Bromonaphthalene (SURR)	7.373	7.373	7799979	51.39		ug/ml
2-Flurobiphenyl (SURR)	8.221	8.221	4862498	49.52		ug/ml
ortho-Terphenyl (SURR)	11.257	11.257	5960099	34.99		ug/ml

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.4
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:20	10/31/24 1:21	PB164525

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.06	mg/kg	FC067579.D
Aliphatic C12-C16	Aliphatic C12-C16	1.95		1	0.25	0.70	mg/kg	FC067579.D
Aliphatic C16-C21	Aliphatic C16-C21	0.34	J	1	0.32	1.06	mg/kg	FC067579.D
Aliphatic C21-C28	Aliphatic C21-C28	0.89	J	1	0.85	1.41	mg/kg	FC067579.D
Aliphatic C28-C40	Aliphatic C28-C40	1.90	U	1	1.90	2.11	mg/kg	FC067579.D
Aromatic C10-C12	Aromatic C10-C12	0.32	U	1	0.32	0.70	mg/kg	FD048632.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.06	mg/kg	FD048632.D
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1	1.01	1.76	mg/kg	FD048632.D
Aromatic C21-C36	Aromatic C21-C36	2.11	U	1	2.11	2.82	mg/kg	FD048632.D
Total AliphaticEPH	Total AliphaticEPH	3.72	U		3.72	6.34	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.80	U		3.80	6.34	mg/kg	
Total EPH	Total EPH	7.51	U		7.51	12.7	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.4
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067579.D	1	10/30/24	10/31/24	PB164525

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.06	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		1.95		0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.34	J	0.32	1.06	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.89	J	0.85	1.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.90	U	1.90	2.11	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		35.6		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4578-07	Acq On:	31 Oct 2024 01:21
Client Sample ID:	WB-305-BOT-1	Operator:	YP/AJ
Data file:	FC067579.D	Misc:	
Instrument:	FID_C	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.453	680358	5.022	300	ug/ml
Aliphatic C12-C16	6.454	9.842	3648617	27.708	200	ug/ml
Aliphatic C16-C21	9.843	13.199	621108	4.882	300	ug/ml
Aliphatic C21-C28	13.200	16.852	1518789	12.647	400	ug/ml
Aliphatic C28-C40	16.853	21.694	2374621	23.489	600	ug/ml
Aliphatic EPH	3.174	21.694	8843493	73.748		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	3849518	35.65		ug/ml
Aliphatic C9-C28	3.174	16.852	6468872	50.259	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.4
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048632.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.32	U	0.32	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.36	U	0.36	1.06	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1.01	1.76	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.11	U	2.11	2.82	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.2		40 - 140	102%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.7		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.9		40 - 140	54%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4578-07	Acq On:	30 Oct 2024 22:56
Client Sample ID:	WB-305-BOT-1	Operator:	YP/AJ
Data file:	FD048632.D	Misc:	
Instrument:	FID_D	ALS Vial:	70
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	413470	2.347	200	ug/ml
Aromatic C12-C16	5.813	8.417	140651	0.793	300	ug/ml
Aromatic C16-C21	8.418	12.679	694928	4.242	500	ug/ml
Aromatic C21-C36	12.680	18.085	1286522	8.424	800	ug/ml
Aromatic EPH	4.094	18.085	2535571	15.806		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	7769712	51.19		ug/ml
2-Flurobiphenyl (SURR)	8.222	8.222	4979570	50.71		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	4579944	26.89		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: P4578 SAS No.: P4578 SDG No.: P4578

Run Number: FC103024AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
WB-305-TOP	60			0
WB-305-TOP-1	48			0
WB-305-BOT	102			0
WB-305-BOTMS	95			0
WB-305-BOTMSD	92			0
WB-305-BOT-1	71			0
PB164525BL	71			0
PB164525BS	90			0
PB164525BSD	92			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: P4578 SAS No.: P4578 SDG No.: P4578

Run Number: FD103024AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
WB-305-TOP	90	89	40	0
WB-305-TOP-1	112	114	48	0
WB-305-BOT	103	99	70	0
WB-305-BOTMS	98	94	69	0
WB-305-BOTMSD	98	94	68	0
WB-305-BOT-1	102	101	54	0
PB164525BL	106	106	87	0
PB164525BS	102	105	88	0
PB164525BSD	104	106	89	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: P4578 SAS No.: P4578 SDG No.: P4578

Run Number: FE103024AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
WB-305-SW	84			0
WB-305-SW-1	76			0
PB164532BL	63			0
PB164532BS	66			0
PB164532BSD	65			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: P4578 SAS No.: P4578 SDG No.: P4578

Run Number: FG103024AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
WB-305-SW	107	105	88	0
WB-305-SW-1	103	101	81	0
PB164532BL	119	117	99	0
PB164532BS	118	114	94	0
PB164532BSD	115	111	91	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : P4578-05MS **Datafile:** FC067573.D

Client ID : WB-305-BOTMS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	12.2	0	8.45	69		(40-140)
Aliphatic C12-C16	8.1	0	8.05	99		(40-140)
Aliphatic C16-C21	12.2	0	12.4	101		(40-140)
Aliphatic C21-C28	16.2	0	16.8	103		(40-140)
Aliphatic C28-C40	24.4	0	28.8	118		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : P4578-05MSD **Datafile:** FC067574.D

Client ID : WB-305-BOTMSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	12.1	0	8.42	69		0 |	(40-140)	25
Aliphatic C12-C16	8.1	0	8.04	99		0.1 |	(40-140)	25
Aliphatic C16-C21	12.1	0	12.5	102		0.99 |	(40-140)	25
Aliphatic C21-C28	16.2	0	16.8	103		0 |	(40-140)	25
Aliphatic C28-C40	24.3	0	29.0	119		0.84 |	(40-140)	25

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : P4578-05MS **Datafile:** FD048630.D

Client ID : WB-305-BOTMS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	8.1	0	4.38	54		(40-140)
Aromatic C12-C16	12.2	0	9.67	79		(40-140)
Aromatic C16-C21	20.3	0	18.9	93		(40-140)
Aromatic C21-C36	32.5	0	29.9	92		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : P4578-05MSD **Datafile:** FD048631.D

Client ID : WB-305-BOTMSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	8.1	0	4.11	51		6.11 |	(40-140)	25
Aromatic C12-C16	12.1	0	9.62	79		0.25 |	(40-140)	25
Aromatic C16-C21	20.2	0	18.7	92		0.76 |	(40-140)	25
Aromatic C21-C36	32.4	0	29.7	92		0.44 |	(40-140)	25

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : PB164525BS **Datafile:** FC067569.D

Client ID : PB164525BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10.0	5.21	52		(40-140)
Aliphatic C12-C16	6.7	5.06	76		(40-140)
Aliphatic C16-C21	10.0	8.68	87		(40-140)
Aliphatic C21-C28	13.3	11.8	88		(40-140)
Aliphatic C28-C40	20.0	18.9	94		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : PB164525BSD **Datafile:** FC067570.D

Client ID : PB164525BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	5.29	53		1.6|	(40-140)	50
Aliphatic C12-C16	6.7	5.19	78		2.6|	(40-140)	50
Aliphatic C16-C21	10	8.92	89		2.8|	(40-140)	50
Aliphatic C21-C28	13.3	12.1	91		2.6|	(40-140)	50
Aliphatic C28-C40	20.0	19.2	96		1.6|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : PB164525BS **Datafile:** FD048624.D

Client ID : PB164525BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	3.53	53		(40-140)
Aromatic C12-C16	10.0	7.16	72		(40-140)
Aromatic C16-C21	16.7	14.1	85		(40-140)
Aromatic C21-C36	26.7	22.2	83		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : PB164525BSD **Datafile:** FD048625.D

Client ID : PB164525BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	3.57	54		1.1|	(40-140)	50
Aromatic C12-C16	10	7.25	72		1.3|	(40-140)	50
Aromatic C16-C21	16.7	14.4	86		2.2|	(40-140)	50
Aromatic C21-C36	26.6	22.5	84		1.3|	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : PB164532BS **Datafile:** FE050918.D

Client ID : PB164532BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	167	56		(40-140)
Aliphatic C12-C16	200	155	78		(40-140)
Aliphatic C16-C21	300	267	89		(40-140)
Aliphatic C21-C28	400	363	91		(40-140)
Aliphatic C28-C40	600	607	101		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : PB164532BSD **Datafile:** FE050919.D

Client ID : PB164532BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	300	165	55		1.3|	(40-140)	50
Aliphatic C12-C16	200	153	76		1.3|	(40-140)	50
Aliphatic C16-C21	300	265	88		0.752|	(40-140)	50
Aliphatic C21-C28	400	360	90		0.885|	(40-140)	50
Aliphatic C28-C40	600	612	102		0.98|	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : PB164532BS **Datafile:** FG014589.D

Client ID : PB164532BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	182	91		(40-140)
Aromatic C12-C16	300	300	100		(40-140)
Aromatic C16-C21	500	589	117		(40-140)
Aromatic C21-C36	800	889	111		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4578 **SAS No :** P4578 **SDG No:** P4578

Sample No : PB164532BSD **Datafile:** FG014590.D

Client ID : PB164532BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	200	177	88		2.8|	(40-140)	50
Aromatic C12-C16	300	292	97		2.7|	(40-140)	50
Aromatic C16-C21	500	572	114		2.3|	(40-140)	50
Aromatic C21-C36	800	868	108		2.3|	(40-140)	50

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB164525BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Instrument ID: FID_C Lab Sample ID: PB164525BL

Matrix: (soil/water) Solid Date Extracted: 10/30/2024 8:20:00

Level: (low/med) low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID
PB164525BS	PB164525BS
PB164525BSD	PB164525BSD
WB-305-BOTMSD	P4578-05MSD
WB-305-TOP	P4578-03
WB-305-TOP-1	P4578-04
WB-305-BOT	P4578-05
WB-305-BOTMS	P4578-05MS
WB-305-BOT-1	P4578-07

COMMENTS:

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Fax : 908 789 8922

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB164532BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Instrument ID: FID_C Lab Sample ID: PB164532BL

Matrix: (soil/water) Water Date Extracted: 10/30/2024 8:50:00

Level: (low/med) low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID
PB164532BS	PB164532BS
PB164532BSD	PB164532BSD
WB-305-SW	P4578-01
WB-305-SW-1	P4578-02

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164525BL	SDG No.:	P4578
Lab Sample ID:	PB164525BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:20	10/30/24 17:27	PB164525

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FC067568.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067568.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067568.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067568.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067568.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048623.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048623.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048623.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.66	mg/kg	FD048623.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.00	mg/kg	
Total EPH	Total EPH	7.12	U		7.12	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164525BL	SDG No.:	P4578
Lab Sample ID:	PB164525BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067568.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.38	U	0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.24	U	0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.30	U	0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.80	U	0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.80	U	1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		35.4		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164525BL	Acq On:	30 Oct 2024 17:27
Client Sample ID:	PB164525BL	Operator:	YP/AJ
Data file:	FC067568.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.453	0	0	300	ug/ml
Aliphatic C12-C16	6.454	9.842	0	0	200	ug/ml
Aliphatic C16-C21	9.843	13.199	0	0	300	ug/ml
Aliphatic C21-C28	13.200	16.852	0	0	400	ug/ml
Aliphatic C28-C40	16.853	21.694	0	0	600	ug/ml
Aliphatic EPH	3.174	21.694	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	3824511	35.42		ug/ml
Aliphatic C9-C28	3.174	16.852	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164525BL	SDG No.:	P4578
Lab Sample ID:	PB164525BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048623.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.30	U	0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.34	U	0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.96	U	0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.00	U	2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.1		40 - 140	106%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	53.2		40 - 140	106%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.7		40 - 140	87%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164525BL	Acq On:	30 Oct 2024 17:27
Client Sample ID:	PB164525BL	Operator:	YP/AJ
Data file:	FD048623.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	0	0	200	ug/ml
Aromatic C12-C16	5.813	8.417	0	0	300	ug/ml
Aromatic C16-C21	8.418	12.679	0	0	500	ug/ml
Aromatic C21-C36	12.680	18.085	0	0	800	ug/ml
Aromatic EPH	4.094	18.085	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	8064149	53.13		ug/ml
2-Flurobiphenyl (SURR)	8.222	8.222	5221900	53.18		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	7445393	43.71		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164532BL	SDG No.:	P4578
Lab Sample ID:	PB164532BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:50	10/31/24 1:29	PB164532

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FE050917.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FE050917.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FE050917.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FE050917.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FE050917.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FG014588.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FG014588.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FG014588.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FG014588.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164532BL	SDG No.:	P4578
Lab Sample ID:	PB164532BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050917.D	1	10/30/24	10/31/24	PB164532

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.3		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164532BL	Acq On:	31 Oct 2024 01:29
Client Sample ID:	PB164532BL	Operator:	YP\AJ
Data file:	FE050917.D	Misc:	
Instrument:	FID_E	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.144	6.762	0	0	300	ug/ml
Aliphatic C12-C16	6.763	10.194	0	0	200	ug/ml
Aliphatic C16-C21	10.195	13.554	0	0	300	ug/ml
Aliphatic C21-C28	13.555	17.208	0	0	400	ug/ml
Aliphatic C28-C40	17.209	22.057	0	0	600	ug/ml
Aliphatic EPH	3.144	22.057	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.291	13.291	3702614	31.3		ug/ml
Aliphatic C9-C28	3.144	17.208	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164532BL	SDG No.:	P4578
Lab Sample ID:	PB164532BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014588.D	1	10/30/24	10/30/24	PB164532

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	12.7	U	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.4		40 - 140	119%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	58.6		40 - 140	117%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.4		40 - 140	99%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164532BL	Acq On:	30 Oct 2024 23:17
Client Sample ID:	PB164532BL	Operator:	YP\AJ
Data file:	FG014588.D	Misc:	
Instrument:	FID_G	ALS Vial:	30
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.519	6.389	0	0	200	ug/ml
Aromatic C12-C16	6.390	9.089	0	0	300	ug/ml
Aromatic C16-C21	9.090	13.408	0	0	500	ug/ml
Aromatic C21-C36	13.409	18.851	0	0	800	ug/ml
Aromatic EPH	4.519	18.851	0	0		ug/ml
ortho-Terphenyl (SURR)	11.962	11.962	7307946	49.36		ug/ml
2-Bromonaphthalene (SURR)	8.015	8.015	7460478	59.43		ug/ml
2-Flurobiphenyl (SURR)	8.889	8.889	5047590	58.6		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164525BS	SDG No.:	P4578
Lab Sample ID:	PB164525BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:20	10/30/24 18:04	PB164525

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.21		1	0.38	1.00	mg/kg	FC067569.D
Aliphatic C12-C16	Aliphatic C12-C16	5.06		1	0.24	0.67	mg/kg	FC067569.D
Aliphatic C16-C21	Aliphatic C16-C21	8.68		1	0.30	1.00	mg/kg	FC067569.D
Aliphatic C21-C28	Aliphatic C21-C28	11.8		1	0.80	1.33	mg/kg	FC067569.D
Aliphatic C28-C40	Aliphatic C28-C40	18.9		1	1.80	2.00	mg/kg	FC067569.D
Aromatic C10-C12	Aromatic C10-C12	3.53		1	0.30	0.67	mg/kg	FD048624.D
Aromatic C12-C16	Aromatic C12-C16	7.16		1	0.34	1.00	mg/kg	FD048624.D
Aromatic C16-C21	Aromatic C16-C21	14.1		1	0.96	1.67	mg/kg	FD048624.D
Aromatic C21-C36	Aromatic C21-C36	22.2		1	2.00	2.67	mg/kg	FD048624.D
Total AliphaticEPH	Total AliphaticEPH	49.6			3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	47.0			3.60	6.01	mg/kg	
Total EPH	Total EPH	96.6			7.12	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164525BS	SDG No.:	P4578
Lab Sample ID:	PB164525BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067569.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.21		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		5.06		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		8.68		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		11.8		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		18.9		1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		45.0		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164525BS	Acq On:	30 Oct 2024 18:04
Client Sample ID:	PB164525BS	Operator:	YP/AJ
Data file:	FC067569.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.453	10594598	78.206	300	ug/ml
Aliphatic C12-C16	6.454	9.842	9999532	75.937	200	ug/ml
Aliphatic C16-C21	9.843	13.199	16567860	130.215	300	ug/ml
Aliphatic C21-C28	13.200	16.852	21290699	177.289	400	ug/ml
Aliphatic C28-C40	16.853	21.694	28633282	283.236	600	ug/ml
Aliphatic EPH	3.174	21.694	87085971	744.884		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.933	12.933	4860200	45.01		ug/ml
Aliphatic C9-C28	3.174	16.852	58452689	461.647	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164525BS	SDG No.:	P4578
Lab Sample ID:	PB164525BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048624.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.53		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.16		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	14.1		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	22.2		2.00	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.1		40 - 140	102%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	52.6		40 - 140	105%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.9		40 - 140	88%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164525BS	Acq On:	30 Oct 2024 18:04
Client Sample ID:	PB164525BS	Operator:	YP/AJ
Data file:	FD048624.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	9338395	52.998	200	ug/ml
Aromatic C12-C16	5.813	8.417	19033424	107.368	300	ug/ml
Aromatic C16-C21	8.418	12.679	34764103	212.193	500	ug/ml
Aromatic C21-C36	12.680	18.085	50891634	333.25	800	ug/ml
Aromatic EPH	4.094	18.085	114027556	705.808		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	7474933	43.88		ug/ml
2-Bromonaphthalene (SURR)	7.373	7.373	7755971	51.1		ug/ml
2-Flurobiphenyl (SURR)	8.223	8.223	5165623	52.61		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164532BS	SDG No.:	P4578
Lab Sample ID:	PB164532BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:50	10/31/24 1:59	PB164532

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	167		1	5.76	30.0	ug/l	FE050918.D
Aliphatic C12-C16	Aliphatic C12-C16	155		1	3.61	20.0	ug/l	FE050918.D
Aliphatic C16-C21	Aliphatic C16-C21	267		1	5.14	30.0	ug/l	FE050918.D
Aliphatic C21-C28	Aliphatic C21-C28	363		1	8.97	40.0	ug/l	FE050918.D
Aliphatic C28-C40	Aliphatic C28-C40	607		1	17.0	60.0	ug/l	FE050918.D
Aromatic C10-C12	Aromatic C10-C12	182		1	3.32	20.0	ug/l	FG014589.D
Aromatic C12-C16	Aromatic C12-C16	300		1	3.69	30.0	ug/l	FG014589.D
Aromatic C16-C21	Aromatic C16-C21	589		1	12.7	50.0	ug/l	FG014589.D
Aromatic C21-C36	Aromatic C21-C36	889		1	25.2	80.0	ug/l	FG014589.D
Total AliphaticEPH	Total AliphaticEPH	1560			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1960			44.9	180	ug/l	
Total EPH	Total EPH	3520			85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164532BS	SDG No.:	P4578
Lab Sample ID:	PB164532BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050918.D	1	10/30/24	10/31/24	PB164532

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	167		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	155		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	267		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	363		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	607		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.3		40 - 140	66%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164532BS	Acq On:	31 Oct 2024 01:59
Client Sample ID:	PB164532BS	Operator:	YP\AJ
Data file:	FE050918.D	Misc:	
Instrument:	FID_E	ALS Vial:	27
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.144	6.762	11996504	83.95	300	ug/ml
Aliphatic C12-C16	6.763	10.194	11265820	77.632	200	ug/ml
Aliphatic C16-C21	10.195	13.554	19330901	133.869	300	ug/ml
Aliphatic C21-C28	13.555	17.208	25843065	181.795	400	ug/ml
Aliphatic C28-C40	17.209	22.057	42033943	303.926	600	ug/ml
Aliphatic EPH	3.144	22.057	110470233	781.173		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.291	13.291	3932867	33.25		ug/ml
Aliphatic C9-C28	3.144	17.208	68436290	477.246	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2024		Date Received:		
Client Sample ID:	PB164532BS		SDG No.:	P4578	
Lab Sample ID:	PB164532BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014589.D	1	10/30/24	10/30/24	PB164532

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	182		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	300		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	589		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	889		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.8		40 - 140	118%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.1		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.9		40 - 140	94%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164532BS	Acq On:	30 Oct 2024 23:46
Client Sample ID:	PB164532BS	Operator:	YP\AJ
Data file:	FG014589.D	Misc:	
Instrument:	FID_G	ALS Vial:	41
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.519	6.389	12705740	91.083	200	ug/ml
Aromatic C12-C16	6.390	9.089	21837200	150.133	300	ug/ml
Aromatic C16-C21	9.090	13.408	42706694	294.88	500	ug/ml
Aromatic C21-C36	13.409	18.851	63200840	444.642	800	ug/ml
Aromatic EPH	4.519	18.851	140450474	980.738		ug/ml
ortho-Terphenyl (SURR)	11.961	11.961	6936011	46.85		ug/ml
2-Bromonaphthalene (SURR)	8.015	8.015	7379611	58.79		ug/ml
2-Flurobiphenyl (SURR)	8.890	8.890	4922210	57.15		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164525BSD	SDG No.:	P4578
Lab Sample ID:	PB164525BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:20	10/30/24 18:41	PB164525

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.29		1	0.38	1.00	mg/kg	FC067570.D
Aliphatic C12-C16	Aliphatic C12-C16	5.19		1	0.24	0.67	mg/kg	FC067570.D
Aliphatic C16-C21	Aliphatic C16-C21	8.92		1	0.30	1.00	mg/kg	FC067570.D
Aliphatic C21-C28	Aliphatic C21-C28	12.1		1	0.80	1.33	mg/kg	FC067570.D
Aliphatic C28-C40	Aliphatic C28-C40	19.2		1	1.80	2.00	mg/kg	FC067570.D
Aromatic C10-C12	Aromatic C10-C12	3.57		1	0.30	0.67	mg/kg	FD048625.D
Aromatic C12-C16	Aromatic C12-C16	7.25		1	0.34	1.00	mg/kg	FD048625.D
Aromatic C16-C21	Aromatic C16-C21	14.4		1	0.96	1.67	mg/kg	FD048625.D
Aromatic C21-C36	Aromatic C21-C36	22.5		1	2.00	2.66	mg/kg	FD048625.D
Total AliphaticEPH	Total AliphaticEPH	50.7			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	47.7			3.60	6.00	mg/kg	
Total EPH	Total EPH	98.4			7.12	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164525BSD	SDG No.:	P4578
Lab Sample ID:	PB164525BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067570.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.29		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.19		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.92		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.1		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.2		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	46.0		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164525BSD	Acq On:	30 Oct 2024 18:41
Client Sample ID:	PB164525BSD	Operator:	YP/AJ
Data file:	FC067570.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.453	10747913	79.338	300	ug/ml
Aliphatic C12-C16	6.454	9.842	10257303	77.895	200	ug/ml
Aliphatic C16-C21	9.843	13.199	17036966	133.901	300	ug/ml
Aliphatic C21-C28	13.200	16.852	21856330	181.999	400	ug/ml
Aliphatic C28-C40	16.853	21.694	29178995	288.635	600	ug/ml
Aliphatic EPH	3.174	21.694	89077507	761.768		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4963532	45.96		ug/ml
Aliphatic C9-C28	3.174	16.852	59898512	473.133	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164525BSD	SDG No.:	P4578
Lab Sample ID:	PB164525BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048625.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.57		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.25		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	14.4		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	22.5		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.0		40 - 140	104%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	53.2		40 - 140	106%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.6		40 - 140	89%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164525BSD	Acq On:	30 Oct 2024 18:41
Client Sample ID:	PB164525BSD	Operator:	YP/AJ
Data file:	FD048625.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	9440252	53.576	200	ug/ml
Aromatic C12-C16	5.813	8.417	19303427	108.891	300	ug/ml
Aromatic C16-C21	8.418	12.679	35308940	215.518	500	ug/ml
Aromatic C21-C36	12.680	18.085	51655732	338.253	800	ug/ml
Aromatic EPH	4.094	18.085	115708351	716.239		ug/ml
2-Bromonaphthalene (SURR)	7.373	7.373	7894586	52.01		ug/ml
2-Flurobiphenyl (SURR)	8.223	8.223	5226799	53.23		ug/ml
ortho-Terphenyl (SURR)	11.259	11.259	7598459	44.61		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164532BSD	SDG No.:	P4578
Lab Sample ID:	PB164532BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:50	10/31/24 2:29	PB164532

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	165		1	5.76	30.0	ug/l	FE050919.D
Aliphatic C12-C16	Aliphatic C12-C16	153		1	3.61	20.0	ug/l	FE050919.D
Aliphatic C16-C21	Aliphatic C16-C21	265		1	5.14	30.0	ug/l	FE050919.D
Aliphatic C21-C28	Aliphatic C21-C28	360		1	8.97	40.0	ug/l	FE050919.D
Aliphatic C28-C40	Aliphatic C28-C40	612		1	17.0	60.0	ug/l	FE050919.D
Aromatic C10-C12	Aromatic C10-C12	177		1	3.32	20.0	ug/l	FG014590.D
Aromatic C12-C16	Aromatic C12-C16	292		1	3.69	30.0	ug/l	FG014590.D
Aromatic C16-C21	Aromatic C16-C21	572		1	12.7	50.0	ug/l	FG014590.D
Aromatic C21-C36	Aromatic C21-C36	868		1	25.2	80.0	ug/l	FG014590.D
Total AliphaticEPH	Total AliphaticEPH	1560			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1910			44.9	180	ug/l	
Total EPH	Total EPH	3460			85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164532BSD	SDG No.:	P4578
Lab Sample ID:	PB164532BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050919.D	1	10/30/24	10/31/24	PB164532

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	165		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	153		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	265		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	360		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	612		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.7		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164532BSD	Acq On:	31 Oct 2024 02:29
Client Sample ID:	PB164532BSD	Operator:	YP\AJ
Data file:	FE050919.D	Misc:	
Instrument:	FID_E	ALS Vial:	28
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.144	6.762	11812466	82.663	300	ug/ml
Aliphatic C12-C16	6.763	10.194	11124662	76.659	200	ug/ml
Aliphatic C16-C21	10.195	13.554	19185643	132.863	300	ug/ml
Aliphatic C21-C28	13.555	17.208	25621022	180.233	400	ug/ml
Aliphatic C28-C40	17.209	22.057	42357832	306.268	600	ug/ml
Aliphatic EPH	3.144	22.057	110101625	778.686		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.291	13.291	3868462	32.7		ug/ml
Aliphatic C9-C28	3.144	17.208	67743793	472.418	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2024		Date Received:		
Client Sample ID:	PB164532BSD		SDG No.:	P4578	
Lab Sample ID:	PB164532BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014590.D	1	10/30/24	10/31/24	PB164532

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	177		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	292		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	572		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	868		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	57.3		40 - 140	115%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	55.6		40 - 140	111%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.4		40 - 140	91%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164532BSD	Acq On:	31 Oct 2024 00:14
Client Sample ID:	PB164532BSD	Operator:	YP\AJ
Data file:	FG014590.D	Misc:	
Instrument:	FID_G	ALS Vial:	42
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.519	6.389	12395063	88.856	200	ug/ml
Aromatic C12-C16	6.390	9.089	21263590	146.189	300	ug/ml
Aromatic C16-C21	9.090	13.408	41453378	286.226	500	ug/ml
Aromatic C21-C36	13.409	18.851	61744889	434.399	800	ug/ml
Aromatic EPH	4.519	18.851	136856920	955.67		ug/ml
ortho-Terphenyl (SURR)	11.961	11.961	6721823	45.4		ug/ml
2-Bromonaphthalene (SURR)	8.014	8.014	7189766	57.27		ug/ml
2-Flurobiphenyl (SURR)	8.890	8.890	4787719	55.58		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-305-BOTMS	SDG No.:	P4578
Lab Sample ID:	P4578-05MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.1
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:20	10/30/24 20:30	PB164525

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.45		1	0.46	1.22	mg/kg	FC067573.D
Aliphatic C12-C16	Aliphatic C12-C16	8.05		1	0.29	0.81	mg/kg	FC067573.D
Aliphatic C16-C21	Aliphatic C16-C21	12.4		1	0.37	1.22	mg/kg	FC067573.D
Aliphatic C21-C28	Aliphatic C21-C28	16.8		1	0.97	1.62	mg/kg	FC067573.D
Aliphatic C28-C40	Aliphatic C28-C40	28.8		1	2.19	2.44	mg/kg	FC067573.D
Aromatic C10-C12	Aromatic C10-C12	4.38		1	0.37	0.81	mg/kg	FD048630.D
Aromatic C12-C16	Aromatic C12-C16	9.67		1	0.41	1.22	mg/kg	FD048630.D
Aromatic C16-C21	Aromatic C16-C21	18.9		1	1.17	2.03	mg/kg	FD048630.D
Aromatic C21-C36	Aromatic C21-C36	29.9		1	2.44	3.25	mg/kg	FD048630.D
Total AliphaticEPH	Total AliphaticEPH	74.5			4.28	7.31	mg/kg	
Total AromaticEPH	Total AromaticEPH	62.9			4.39	7.31	mg/kg	
Total EPH	Total EPH	137			8.67	14.6	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-305-BOTMS	SDG No.:	P4578
Lab Sample ID:	P4578-05MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.1
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067573.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		8.45		0.46	1.22	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		8.05		0.29	0.81	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		12.4		0.37	1.22	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		16.8		0.97	1.62	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		28.8		2.19	2.44	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		47.7		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4578-05MS	Acq On:	30 Oct 2024 20:30
Client Sample ID:	WB-305-BOTMS	Operator:	YP/AJ
Data file:	FC067573.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.453	14109603	104.153	300	ug/ml
Aliphatic C12-C16	6.454	9.842	13057818	99.162	200	ug/ml
Aliphatic C16-C21	9.843	13.199	19455440	152.909	300	ug/ml
Aliphatic C21-C28	13.200	16.852	24870492	207.098	400	ug/ml
Aliphatic C28-C40	16.853	21.694	35898622	355.104	600	ug/ml
Aliphatic EPH	3.174	21.694	107391975	918.427		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.933	12.933	5150146	47.69		ug/ml
Aliphatic C9-C28	3.174	16.852	71493353	563.322	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-305-BOTMS	SDG No.:	P4578
Lab Sample ID:	P4578-05MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.1
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048630.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.38		0.37	0.81	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.67		0.41	1.22	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.9		1.17	2.03	mg/kg
Aromatic C21-C36	Aromatic C21-C36	29.9		2.44	3.25	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	49.2		40 - 140	98%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	47.0		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.4		40 - 140	69%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4578-05MS	Acq On:	30 Oct 2024 21:43
Client Sample ID:	WB-305-BOTMS	Operator:	YP/AJ
Data file:	FD048630.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	9516391	54.008	200	ug/ml
Aromatic C12-C16	5.813	8.417	21115953	119.115	300	ug/ml
Aromatic C16-C21	8.418	12.679	38106574	232.595	500	ug/ml
Aromatic C21-C36	12.680	18.085	56323449	368.819	800	ug/ml
Aromatic EPH	4.094	18.085	125062367	774.537		ug/ml
2-Bromonaphthalene (SURR)	7.373	7.373	7467714	49.2		ug/ml
2-Flurobiphenyl (SURR)	8.222	8.222	4620375	47.05		ug/ml
ortho-Terphenyl (SURR)	11.257	11.257	5863949	34.43		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-305-BOTMSD	SDG No.:	P4578
Lab Sample ID:	P4578-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.1
Sample Wt/Vol:	30.1 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 08:20	10/30/24 21:06	PB164525

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.42		1	0.46	1.21	mg/kg	FC067574.D
Aliphatic C12-C16	Aliphatic C12-C16	8.04		1	0.29	0.81	mg/kg	FC067574.D
Aliphatic C16-C21	Aliphatic C16-C21	12.5		1	0.36	1.21	mg/kg	FC067574.D
Aliphatic C21-C28	Aliphatic C21-C28	16.8		1	0.97	1.62	mg/kg	FC067574.D
Aliphatic C28-C40	Aliphatic C28-C40	29.0		1	2.19	2.43	mg/kg	FC067574.D
Aromatic C10-C12	Aromatic C10-C12	4.11		1	0.36	0.81	mg/kg	FD048631.D
Aromatic C12-C16	Aromatic C12-C16	9.62		1	0.41	1.21	mg/kg	FD048631.D
Aromatic C16-C21	Aromatic C16-C21	18.7		1	1.17	2.02	mg/kg	FD048631.D
Aromatic C21-C36	Aromatic C21-C36	29.7		1	2.43	3.24	mg/kg	FD048631.D
Total AliphaticEPH	Total AliphaticEPH	74.8			4.28	7.28	mg/kg	
Total AromaticEPH	Total AromaticEPH	62.1			4.38	7.28	mg/kg	
Total EPH	Total EPH	137			8.65	14.6	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-305-BOTMSD	SDG No.:	P4578
Lab Sample ID:	P4578-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.1
Sample Wt/Vol:	30.1 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067574.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.42		0.46	1.21	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	8.04		0.29	0.81	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	12.5		0.36	1.21	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	16.8		0.97	1.62	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	29.0		2.19	2.43	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	46.2		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4578-05MSD	Acq On:	30 Oct 2024 21:06
Client Sample ID:	WB-305-BOTMSD	Operator:	YP/AJ
Data file:	FC067574.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.453	14097141	104.061	300	ug/ml
Aliphatic C12-C16	6.454	9.842	13086719	99.381	200	ug/ml
Aliphatic C16-C21	9.843	13.199	19579545	153.885	300	ug/ml
Aliphatic C21-C28	13.200	16.852	24987811	208.075	400	ug/ml
Aliphatic C28-C40	16.853	21.694	36242219	358.503	600	ug/ml
Aliphatic EPH	3.174	21.694	107993435	923.906		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.933	12.933	4987072	46.18		ug/ml
Aliphatic C9-C28	3.174	16.852	71751216	565.402	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-305-BOTMSD	SDG No.:	P4578
Lab Sample ID:	P4578-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.1
Sample Wt/Vol:	30.1 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048631.D	1	10/30/24	10/30/24	PB164525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.11		0.36	0.81	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.62		0.41	1.21	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.7		1.17	2.02	mg/kg
Aromatic C21-C36	Aromatic C21-C36	29.7		2.43	3.24	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.9		40 - 140	98%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.9		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.2		40 - 140	68%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4578-05MSD	Acq On:	30 Oct 2024 22:20
Client Sample ID:	WB-305-BOTMSD	Operator:	YP/AJ
Data file:	FD048631.D	Misc:	
Instrument:	FID_D	ALS Vial:	69
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	8942128	50.749	200	ug/ml
Aromatic C12-C16	5.813	8.417	21080162	118.913	300	ug/ml
Aromatic C16-C21	8.418	12.679	37877596	231.197	500	ug/ml
Aromatic C21-C36	12.680	18.085	56012445	366.782	800	ug/ml
Aromatic EPH	4.094	18.085	123912331	767.641		ug/ml
2-Bromonaphthalene (SURR)	7.373	7.373	7428124	48.94		ug/ml
2-Flurobiphenyl (SURR)	8.222	8.222	4605008	46.9		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	5828387	34.22		ug/ml

CALIBRATION SUMMARY

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Inital Calibration Report for SequenceID : FC102324AL

AreaCount

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	39022992.000	19933185.000	8061570.000	4198329.000	2101198.000	
Aliphatic C12-C16	25467967.000	12990634.000	5208245.000	2702045.000	1358541.000	
Aliphatic C16-C21	36713606.000	18782701.000	7526010.000	3934678.000	1979840.000	
Aliphatic C21-C28	45946180.000	23609090.000	9458827.000	4951672.000	2510279.000	
Aliphatic C28-C40	56250650.000	29316600.000	11954663.000	6283522.000	3289360.000	
Aliphatic EPH	203401395.000	104632210.000	42209315.000	22070246.000	11239218.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	135469.6413332	3.265				
Aliphatic C12-C16	131681.73	2.772				
Aliphatic C16-C21	127235.0919996	3.261				
Aliphatic C21-C28	120090.3975	3.678				
Aliphatic C28-C40	101093.1949996	6.133				
Aliphatic EPH	118799.912222	4.081				

Concentration

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	130076.640000	132887.900000	134359.500000	139944.300000	140079.866666	
Aliphatic C12-C16	127339.835000	129906.340000	130206.125000	135102.250000	135854.100000	
Aliphatic C16-C21	122378.686666	125218.006666	125433.500000	131155.933333	131989.333333	

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Inital Calibration Report for SequenceID : FC102324AL

Aliphatic C21-C28	114865.450000	118045.450000	118235.337500	123791.800000	125513.950000	
Aliphatic C28-C40	93751.083333	97722.000000	99622.191666	104725.366666	109645.333333	
Aliphatic EPH	113000.775000	116258.011111	117248.097222	122612.477777	124880.200000	

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Inital Calibration Report for SequenceID : FD102324AR

AreaCount

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	34560081.000	17413124.000	7062069.000	3602660.000	1773971.000	
Aromatic C12-C16	51756513.000	26214353.000	10660566.000	5474983.000	2683618.000	
Aromatic C16-C21	64464447.000	32614919.000	13171585.000	6675037.000	3268126.000	
Aromatic C21-C36	134161995.000	67904676.000	27627174.000	14154223.000	6877987.000	
Aromatic EPH	284943036.000	144147072.000	58521394.000	29906903.000	14603702.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	176202.694	1.627				
Aromatic C12-C16	177273.4926664	2.167				
Aromatic C16-C21	163832.55	1.288				
Aromatic C21-C36	152713.1526664	2.017				
Aromatic EPH	161887.4688884	1.816				

Concentration

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	172800.405000	174131.240000	176551.725000	180133.000000	177397.100000	
Aromatic C12-C16	172521.710000	174762.353333	177676.100000	182499.433333	178907.866666	
Aromatic C16-C21	161161.117500	163074.595000	164644.812500	166875.925000	163406.300000	
Aromatic C21-C36	149068.883333	150899.280000	153484.300000	157269.144444	152844.155555	
Aromatic EPH	158301.686666	160163.413333	162559.427777	166149.461111	162263.355555	

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Inital Calibration Report for SequenceID : FE100824AL

AreaCount

Parameter Range	FE050535.D	FE050536.D	FE050537.D	FE050538.D	FE050539.D	
Aliphatic C9-C12	40745791.000	21072572.000	8517410.000	4337343.000	2274924.000	
Aliphatic C12-C16	27735737.000	14244783.000	5792628.000	2930237.000	1531373.000	
Aliphatic C16-C21	40974621.000	21203318.000	8666410.000	4379658.000	2304599.000	
Aliphatic C21-C28	52777882.000	27581000.000	11356069.000	5708818.000	3125067.000	
Aliphatic C28-C40	72232829.000	38094965.000	16699677.000	8422068.000	4938401.000	
Aliphatic EPH	234466860.000	122196638.000	51032194.000	25778124.000	14174364.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	142899.9299998	4.087				
Aliphatic C12-C16	145118.273	3.694				
Aliphatic C16-C21	144401.2446664	4.356				
Aliphatic C21-C28	142154.8735	6.306				
Aliphatic C28-C40	138303.281333	12.24				
Aliphatic EPH	141698.847333	7.212				

Concentration

Parameter Range	FE050535.D	FE050536.D	FE050537.D	FE050538.D	FE050539.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FE050535.D	FE050536.D	FE050537.D	FE050538.D	FE050539.D	
Aliphatic C9-C12	135819.303333	140483.813333	141956.833333	144578.100000	151661.600000	
Aliphatic C12-C16	138678.685000	142447.830000	144815.700000	146511.850000	153137.300000	
Aliphatic C16-C21	136582.070000	141355.453333	144440.166666	145988.600000	153639.933333	

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Inital Calibration Report for SequenceID : FE100824AL

Aliphatic C21-C28	131944.705000	137905.000000	141950.862500	142720.450000	156253.350000	
Aliphatic C28-C40	120388.048333	126983.216666	139163.975000	140367.800000	164613.366666	
Aliphatic EPH	130259.366666	135774.042222	141756.094444	143211.800000	157492.933333	

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Inital Calibration Report for SequenceID : FG102124AR

AreaCount

Parameter Range	FG014461.D	FG014462.D	FG014463.D	FG014464.D	FG014465.D	
Aromatic C10-C12	25666133.000	13944641.000	5674868.000	2855389.000	1450608.000	
Aromatic C12-C16	40005389.000	21745855.000	8835761.000	4478653.000	2285842.000	
Aromatic C16-C21	52867791.000	28659966.000	11693067.000	5954910.000	3072620.000	
Aromatic C21-C36	118599058.000	61512047.000	25541591.000	13291959.000	6868694.000	
Aromatic EPH	237138371.000	125862509.000	51745287.000	26580911.000	13677764.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	139495.805	4.701				
Aromatic C12-C16	145452.8493328	5.014				
Aromatic C16-C21	144827.279	5.548				
Aromatic C21-C36	142138.7948884	5.866				
Aromatic EPH	142994.9126662	5.412				

Concentration

Parameter Range	FG014461.D	FG014462.D	FG014463.D	FG014464.D	FG014465.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FG014461.D	FG014462.D	FG014463.D	FG014464.D	FG014465.D	
Aromatic C10-C12	128330.665000	139446.410000	141871.700000	142769.450000	145060.800000	
Aromatic C12-C16	133351.296666	144972.366666	147262.683333	149288.433333	152389.466666	
Aromatic C16-C21	132169.477500	143299.830000	146163.337500	148872.750000	153631.000000	
Aromatic C21-C36	131776.731111	136693.437777	141897.727777	147688.433333	152637.644444	
Aromatic EPH	131743.539444	139847.232222	143736.908333	147671.727777	151975.155555	

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Continuing Calibration Report for SequenceID : FC103024AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067564.D**						
Aliphatic C9-C12	6772070.000	60.000	3.174	6.453	112867.833	135469.641	16.684
Aliphatic C12-C16	4527987.000	40.000	6.454	9.842	113199.675	131681.730	14.035
Aliphatic C16-C21	6666175.000	60.000	9.843	13.199	111102.917	127235.092	12.679
Aliphatic C21-C28	9423357.000	80.000	13.200	16.852	117791.963	120090.398	1.914
Aliphatic C28-C40	12453717.000	120.000	16.853	21.694	103780.975	101093.195	-2.659
Aliphatic EPH	39843306.000	360.000	3.174	21.694	110675.850	118799.912	6.838

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	30 Oct 2024 14:26
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067564.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.453	6772070.000	60.000	ug/ml
Aliphatic C12-C16	6.454	9.842	4527987.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.199	6666175.000	60.000	ug/ml
Aliphatic C21-C28	13.200	16.852	9423357.000	80.000	ug/ml
Aliphatic C28-C40	16.853	21.694	12453717.000	120.000	ug/ml
Aliphatic EPH	3.174	21.694	39843306.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC103024AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067576.D**						
Aliphatic C9-C12	7768270.000	60.000	3.174	6.453	129471.167	135469.641	4.428
Aliphatic C12-C16	5095387.000	40.000	6.454	9.842	127384.675	131681.730	3.263
Aliphatic C16-C21	7442275.000	60.000	9.843	13.199	124037.917	127235.092	2.513
Aliphatic C21-C28	9491203.000	80.000	13.200	16.852	118640.038	120090.398	1.208
Aliphatic C28-C40	12709973.000	120.000	16.853	21.694	105916.442	101093.195	-4.771
Aliphatic EPH	42507108.000	360.000	3.174	21.694	118075.300	118799.912	0.610

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	30 Oct 2024 22:56
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067576.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.453	7768270.000	60.000	ug/ml
Aliphatic C12-C16	6.454	9.842	5095387.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.199	7442275.000	60.000	ug/ml
Aliphatic C21-C28	13.200	16.852	9491203.000	80.000	ug/ml
Aliphatic C28-C40	16.853	21.694	12709973.000	120.000	ug/ml
Aliphatic EPH	3.174	21.694	42507108.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC103024AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067588.D**						
Aliphatic C9-C12	7778450.000	60.000	3.174	6.453	129640.833	135469.641	4.303
Aliphatic C12-C16	5094446.000	40.000	6.454	9.842	127361.150	131681.730	3.281
Aliphatic C16-C21	7440285.000	60.000	9.843	13.199	124004.750	127235.092	2.539
Aliphatic C21-C28	9496949.000	80.000	13.200	16.852	118711.863	120090.398	1.148
Aliphatic C28-C40	12821520.000	120.000	16.853	21.694	106846.000	101093.195	-5.691
Aliphatic EPH	42631650.000	360.000	3.174	21.694	118421.250	118799.912	0.319

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	31 Oct 2024 07:23
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067588.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.453	7778450.000	60.000	ug/ml
Aliphatic C12-C16	6.454	9.842	5094446.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.199	7440285.000	60.000	ug/ml
Aliphatic C21-C28	13.200	16.852	9496949.000	80.000	ug/ml
Aliphatic C28-C40	16.853	21.694	12821520.000	120.000	ug/ml
Aliphatic EPH	3.174	21.694	42631650.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD103024AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048622.D**						
Aromatic C10-C12	7371341.000	40.000	4.094	5.812	184283.525	176202.694	-4.586
Aromatic C12-C16	11108842.000	60.000	5.813	8.417	185147.367	177273.493	-4.442
Aromatic C16-C21	13346732.000	80.000	8.418	12.679	166834.150	163832.550	-1.832
Aromatic C21-C36	30074963.000	180.000	12.680	18.085	167083.128	152713.153	-9.410
Aromatic EPH	61901878.000	360.000	4.094	18.085	171949.661	161887.469	-6.216

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	30 Oct 2024 14:26
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048622.D	Misc:	
Instrument:	FID_D	ALS Vial:	54
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.094	5.812	7371341.000	40.000	ug/ml
Aromatic C12-C16	5.813	8.417	11108842.000	60.000	ug/ml
Aromatic C16-C21	8.418	12.679	13346732.000	80.000	ug/ml
Aromatic C21-C36	12.680	18.085	30074963.000	180.000	ug/ml
Aromatic EPH	4.094	18.085	61901878.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD103024AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048634.D**						
Aromatic C10-C12	6567342.000	40.000	4.094	5.812	164183.550	176202.694	6.821
Aromatic C12-C16	9897067.000	60.000	5.813	8.417	164951.117	177273.493	6.951
Aromatic C16-C21	12114271.000	80.000	8.418	12.679	151428.388	163832.550	7.571
Aromatic C21-C36	26179901.000	180.000	12.680	18.085	145443.894	152713.153	4.760
Aromatic EPH	54758581.000	360.000	4.094	18.085	152107.169	161887.469	6.041

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	31 Oct 2024 00:45
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048634.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.094	5.812	6567342.000	40.000	ug/ml
Aromatic C12-C16	5.813	8.417	9897067.000	60.000	ug/ml
Aromatic C16-C21	8.418	12.679	12114271.000	80.000	ug/ml
Aromatic C21-C36	12.680	18.085	26179901.000	180.000	ug/ml
Aromatic EPH	4.094	18.085	54758581.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FE103024AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE050916.D**						
Aliphatic C9-C12	8444590.000	60.000	3.144	6.762	140743.167	142899.930	1.509
Aliphatic C12-C16	5773033.000	40.000	6.763	10.194	144325.825	145118.273	0.546
Aliphatic C16-C21	8667899.000	60.000	10.195	13.554	144464.983	144401.245	-0.044
Aliphatic C21-C28	11602016.000	80.000	13.555	17.208	145025.200	142154.874	-2.019
Aliphatic C28-C40	17419412.000	120.000	17.209	22.057	145161.767	138303.281	-4.959
Aliphatic EPH	51906950.000	360.000	3.144	22.057	144185.972	141698.847	-1.755

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	31 Oct 2024 00:28
Client Sample ID:		Operator:	YP\AJ
Data file:	FE050916.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.144	6.762	8444590.000	60.000	ug/ml
Aliphatic C12-C16	6.763	10.194	5773033.000	40.000	ug/ml
Aliphatic C16-C21	10.195	13.554	8667899.000	60.000	ug/ml
Aliphatic C21-C28	13.555	17.208	11602016.000	80.000	ug/ml
Aliphatic C28-C40	17.209	22.057	17419412.000	120.000	ug/ml
Aliphatic EPH	3.144	22.057	51906950.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FE103024AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE050932.D**						
Aliphatic C9-C12	8656010.000	60.000	3.144	6.762	144266.833	142899.930	-0.957
Aliphatic C12-C16	5967176.000	40.000	6.763	10.194	149179.400	145118.273	-2.798
Aliphatic C16-C21	8948412.000	60.000	10.195	13.554	149140.200	144401.245	-3.282
Aliphatic C21-C28	11864647.000	80.000	13.555	17.208	148308.088	142154.874	-4.329
Aliphatic C28-C40	18321940.000	120.000	17.209	22.057	152682.833	138303.281	-10.397
Aliphatic EPH	53758185.000	360.000	3.144	22.057	149328.292	141698.847	-5.384

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	31 Oct 2024 09:00
Client Sample ID:		Operator:	YP\AJ
Data file:	FE050932.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.144	6.762	8656010.000	60.000	ug/ml
Aliphatic C12-C16	6.763	10.194	5967176.000	40.000	ug/ml
Aliphatic C16-C21	10.195	13.554	8948412.000	60.000	ug/ml
Aliphatic C21-C28	13.555	17.208	11864647.000	80.000	ug/ml
Aliphatic C28-C40	17.209	22.057	18321940.000	120.000	ug/ml
Aliphatic EPH	3.144	22.057	53758185.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FG103024AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG014587.D**						
Aromatic C21-C36	22786776.000	180.000	13.409	18.851	126593.200	142138.795	10.937
Aromatic EPH	48299723.000	360.000	4.519	18.851	134165.897	142994.913	6.174
Aromatic C10-C12	5761257.000	40.000	4.519	6.389	144031.425	139495.805	-3.251
Aromatic C12-C16	8714847.000	60.000	6.390	9.089	145247.450	145452.849	0.141
Aromatic C16-C21	11036843.000	80.000	9.090	13.408	137960.538	144827.279	4.741

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	30 Oct 2024 22:21
Client Sample ID:		Operator:	YP\AJ
Data file:	FG014587.D	Misc:	
Instrument:	FID_G	ALS Vial:	31
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.519	6.389	5761257.000	40.000	ug/ml
Aromatic C12-C16	6.390	9.089	8714847.000	60.000	ug/ml
Aromatic C16-C21	9.090	13.408	11036843.000	80.000	ug/ml
Aromatic C21-C36	13.409	18.851	22786776.000	180.000	ug/ml
Aromatic EPH	4.519	18.851	48299723.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FG103024AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG014594.D**						
Aromatic C21-C36	23321581.000	180.000	13.409	18.851	129564.339	142138.795	8.847
Aromatic EPH	48970714.000	360.000	4.519	18.851	136029.761	142994.913	4.871
Aromatic C10-C12	5688410.000	40.000	4.519	6.389	142210.250	139495.805	-1.946
Aromatic C12-C16	8735998.000	60.000	6.390	9.089	145599.967	145452.849	-0.101
Aromatic C16-C21	11224725.000	80.000	9.090	13.408	140309.063	144827.279	3.120

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	31 Oct 2024 02:07
Client Sample ID:		Operator:	YP\AJ
Data file:	FG014594.D	Misc:	
Instrument:	FID_G	ALS Vial:	31
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.519	6.389	5688410.000	40.000	ug/ml
Aromatic C12-C16	6.390	9.089	8735998.000	60.000	ug/ml
Aromatic C16-C21	9.090	13.408	11224725.000	80.000	ug/ml
Aromatic C21-C36	13.409	18.851	23321581.000	180.000	ug/ml
Aromatic EPH	4.519	18.851	48970714.000	360.000	ug/ml

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050920.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 02:59
Operator : YP\AJ
Sample : P4578-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WB-305-SW

Integration File: autoint1.e
Quant Time: Oct 31 05:20:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.292	4946678	41.817 ug/ml
Spiked Amount 50.000		Recovery = 83.63%	
Target Compounds			

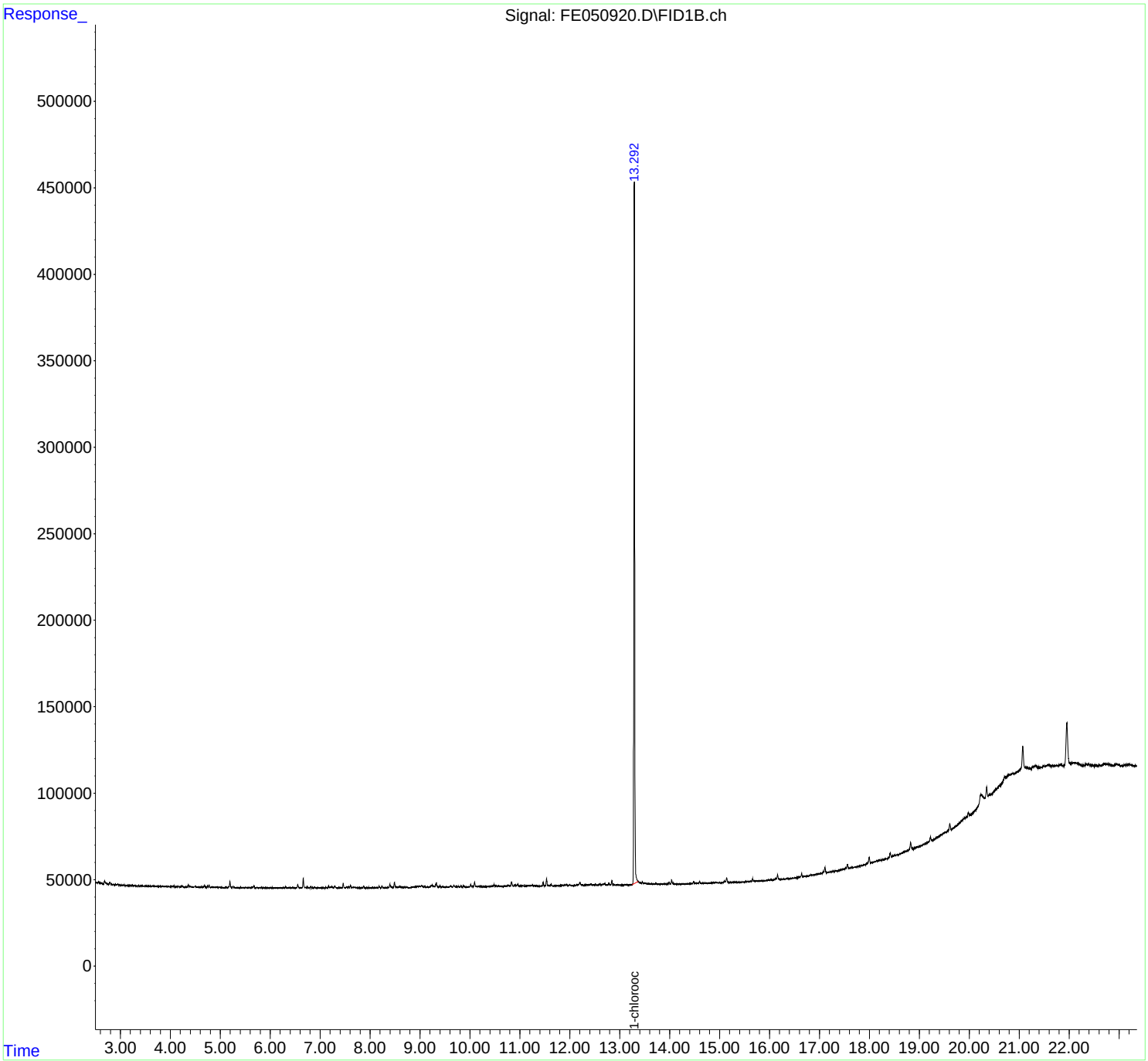
(f)=RT Delta > 1/2 Window (m)=manual int.

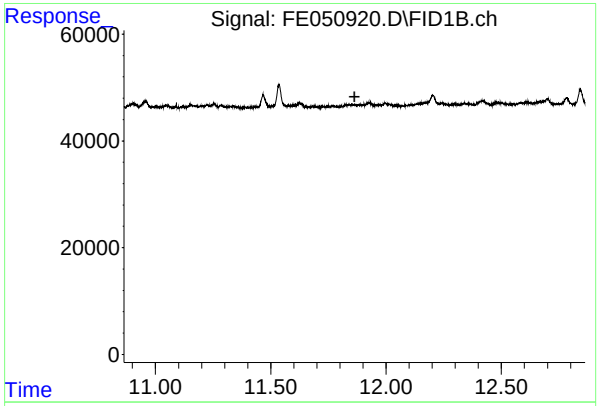
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050920.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 02:59
Operator : YP\AJ
Sample : P4578-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WB-305-SW

Integration File: autoint1.e
Quant Time: Oct 31 05:20:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

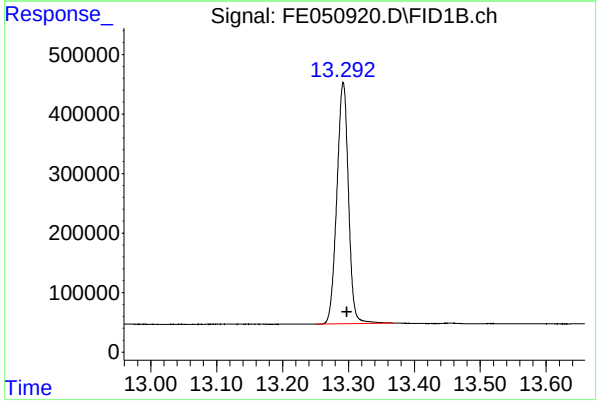




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.863 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
WB-305-SW



#12 1-chlorooctadecane (SURR)

R.T.: 13.292 min
Delta R.T.: -0.006 min
Response: 4946678
Conc: 41.82 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050920.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 02:59
Sample : P4578-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.292	13.251	13.368	BB	404108	4946678	100.00%	100.000%
			Sum of corrected areas:			4946678		

Aliphatic EPH 100824.M Thu Oct 31 05:56:28 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014591.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:42
Operator : YP\AJ
Sample : P4578-01
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
WB-305-SW

Integration File: autoint1.e
Quant Time: Oct 31 06:45:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	8.014	6728809	53.601 ug/ml
Spiked Amount 50.000		Recovery = 107.20%	
6) S 2-Flurobiphenyl (SURR)	8.889	4519510	52.470 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 104.94%	
11) S ortho-Terphenyl (SURR)	11.961	6505374	43.938 ug/ml
Spiked Amount 50.000		Recovery = 87.88%	
Target Compounds			

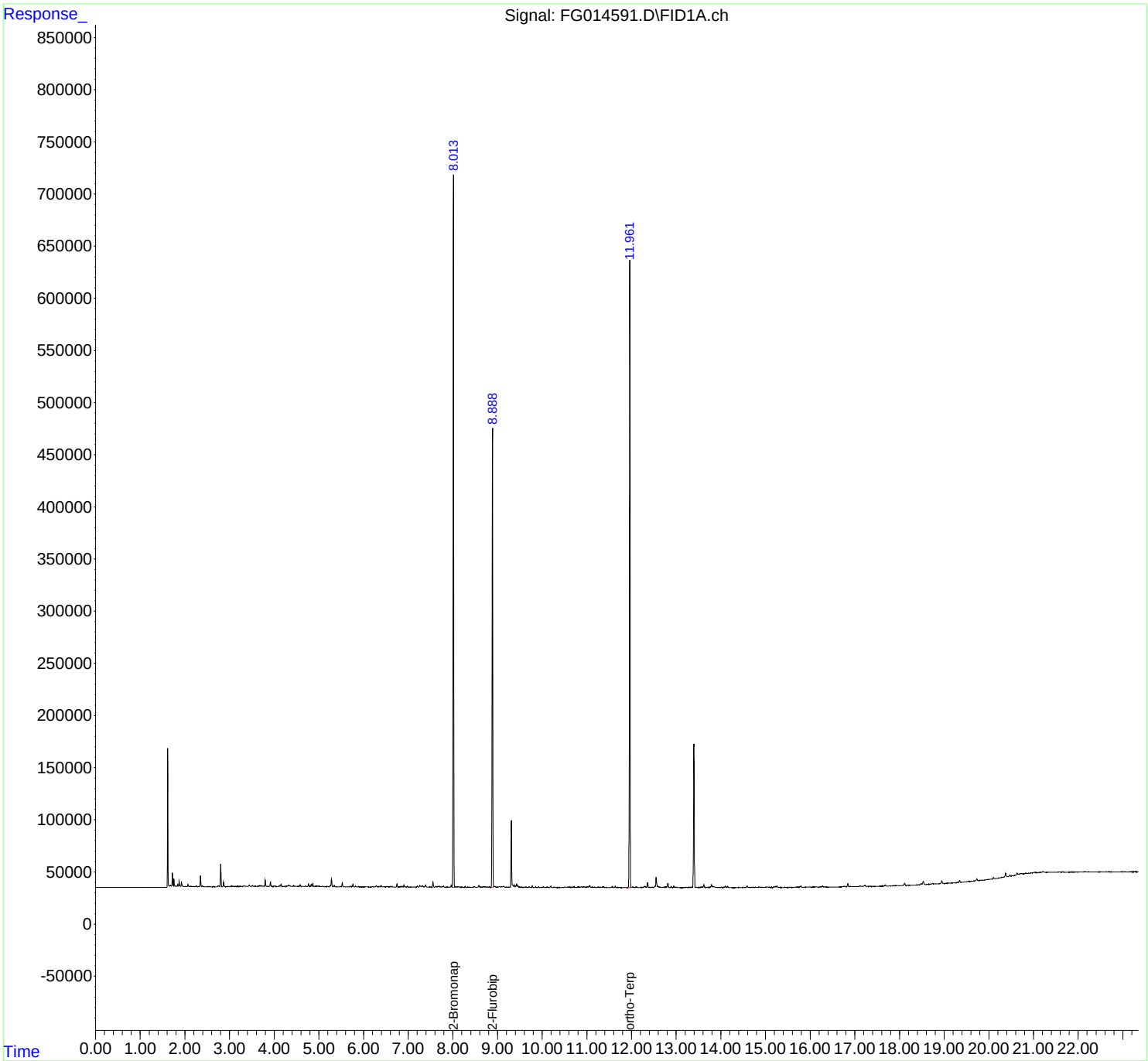
(f)=RT Delta > 1/2 Window (m)=manual int.

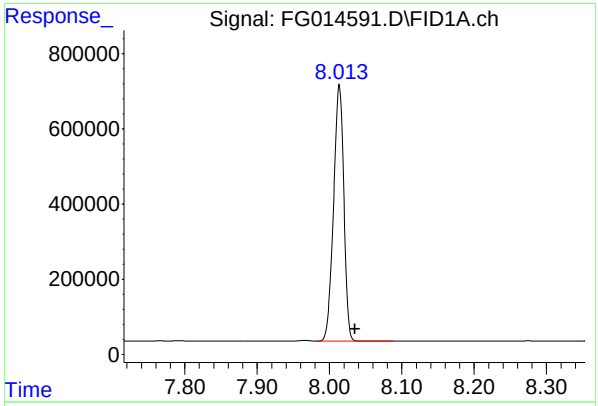
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014591.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:42
Operator : YP\AJ
Sample : P4578-01
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
WB-305-SW

Integration File: autoint1.e
Quant Time: Oct 31 06:45:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

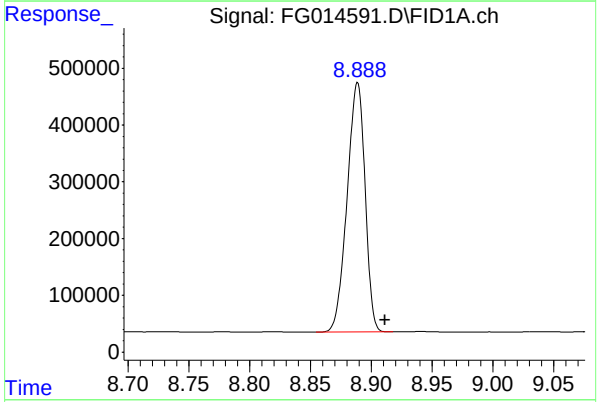




#4 2-Bromonaphthalene (SURR)

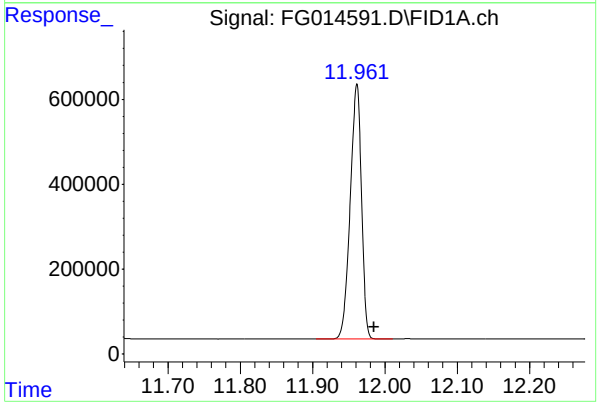
R.T.: 8.014 min
Delta R.T.: -0.022 min
Response: 6728809
Conc: 53.60 ug/ml

Instrument :
FID_G
ClientSampleId :
WB-305-SW



#6 2-Flurobiphenyl (SURR)

R.T.: 8.889 min
Delta R.T.: -0.023 min
Response: 4519510
Conc: 52.47 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.961 min
Delta R.T.: -0.024 min
Response: 6505374
Conc: 43.94 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014591.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:42
Sample : P4578-01
Misc :
ALS Vial : 43 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.800	3.751	3.855	BB	6092	65815	0.98%	0.318%
2	3.916	3.895	3.958	BB	4391	42982	0.64%	0.208%
3	5.283	5.231	5.318	BV	7566	102013	1.52%	0.494%
4	5.525	5.505	5.558	VB	3736	38528	0.57%	0.186%
5	7.557	7.528	7.588	BV	4955	54915	0.82%	0.266%
6	8.014	7.982	8.088	VB	682354	6728809	100.00%	32.556%
7	8.889	8.855	8.918	BV	437907	4519510	67.17%	21.867%
8	9.310	9.268	9.375	BV	63974	662782	9.85%	3.207%
9	11.961	11.905	12.011	BV	603870	6505374	96.68%	31.475%
10	12.359	12.328	12.384	VV	4710	54971	0.82%	0.266%
11	12.552	12.495	12.665	BB	9515	160612	2.39%	0.777%
12	12.813	12.698	12.865	BV	4012	72387	1.08%	0.350%
13	13.396	13.331	13.430	BB	137318	1659541	24.66%	8.029%
			Sum of corrected areas:			20668237		

Aromatic EPH 102124.M Thu Oct 31 07:09:23 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050921.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 03:29
Operator : YP\AJ
Sample : P4578-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WB-305-SW-1

Integration File: autoint1.e
Quant Time: Oct 31 05:20:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.292	4512059	38.143 ug/ml
Spiked Amount 50.000		Recovery = 76.29%	
Target Compounds			

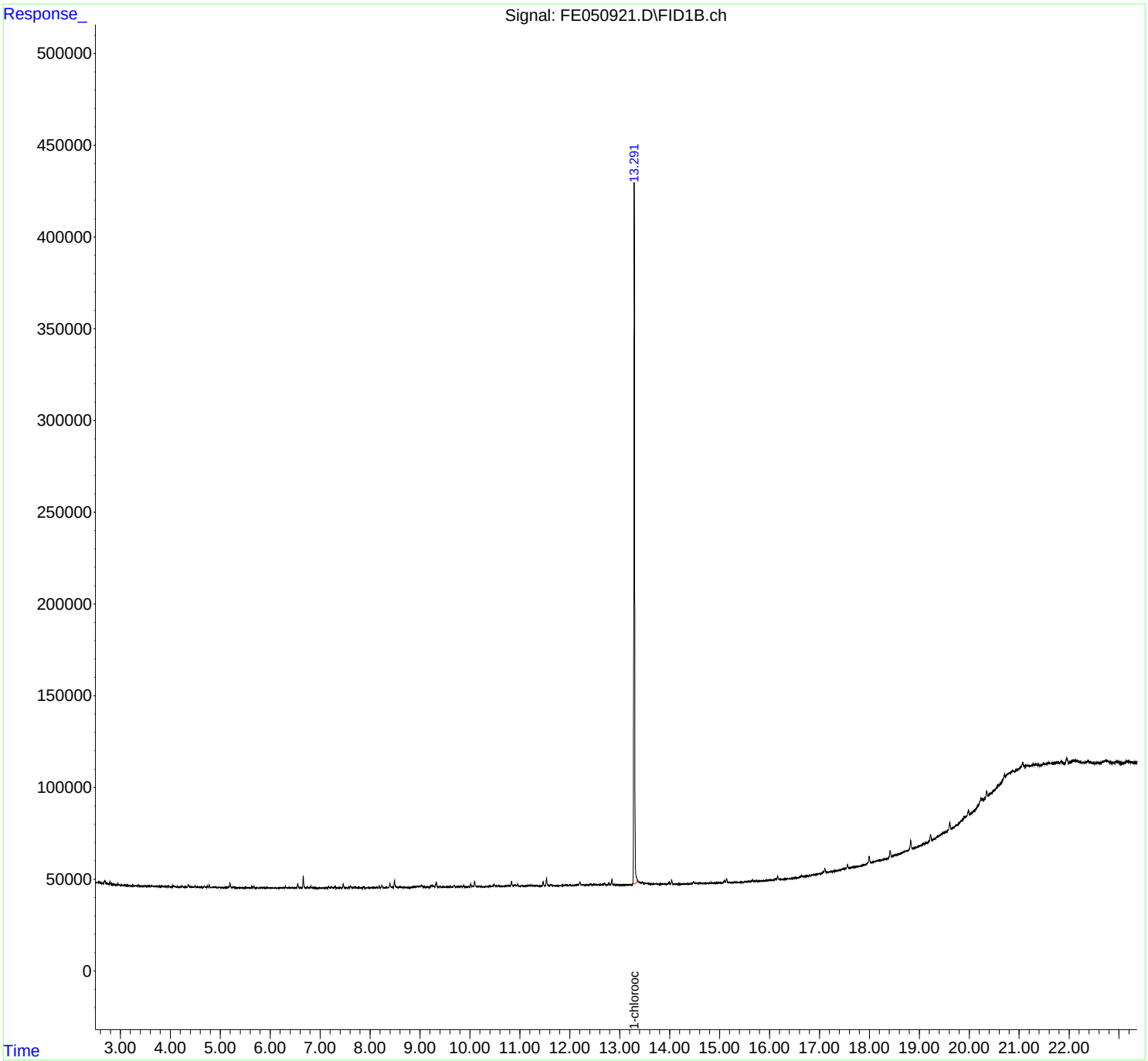
(f)=RT Delta > 1/2 Window (m)=manual int.

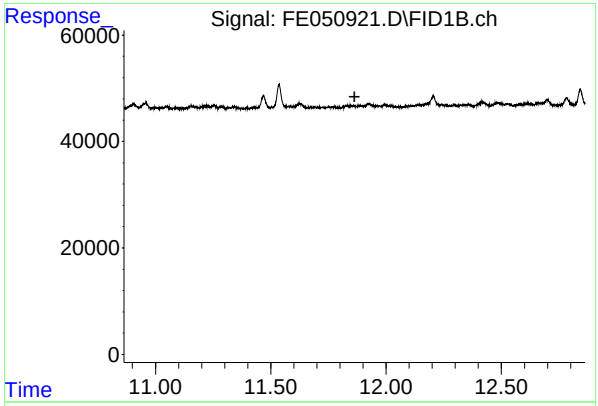
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050921.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 03:29
Operator : YP\AJ
Sample : P4578-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WB-305-SW-1

Integration File: autoint1.e
Quant Time: Oct 31 05:20:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

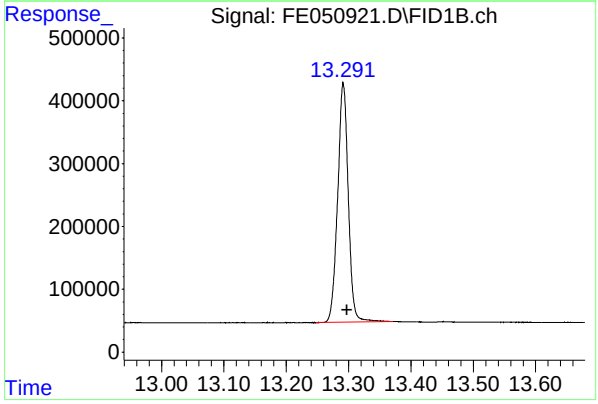




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.863 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
WB-305-SW-1



#12 1-chlorooctadecane (SURR)

R.T.: 13.292 min
Delta R.T.: -0.006 min
Response: 4512059
Conc: 38.14 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050921.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 03:29
Sample : P4578-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.292	13.248	13.371	BB	380654	4512059	100.00%	100.000%
			Sum of corrected areas:			4512059		

Aliphatic EPH 100824.M Thu Oct 31 06:08:35 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014592.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 01:11
Operator : YP\AJ
Sample : P4578-02
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
WB-305-SW-1

Integration File: autoint1.e
Quant Time: Oct 31 06:45:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	8.014	6487135	51.676 ug/ml
Spiked Amount 50.000		Recovery = 103.35%	
6) S 2-Flurobiphenyl (SURR)	8.889	4346977	50.467 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 100.93%	
11) S ortho-Terphenyl (SURR)	11.960	5979246	40.384 ug/ml
Spiked Amount 50.000		Recovery = 80.77%	
Target Compounds			

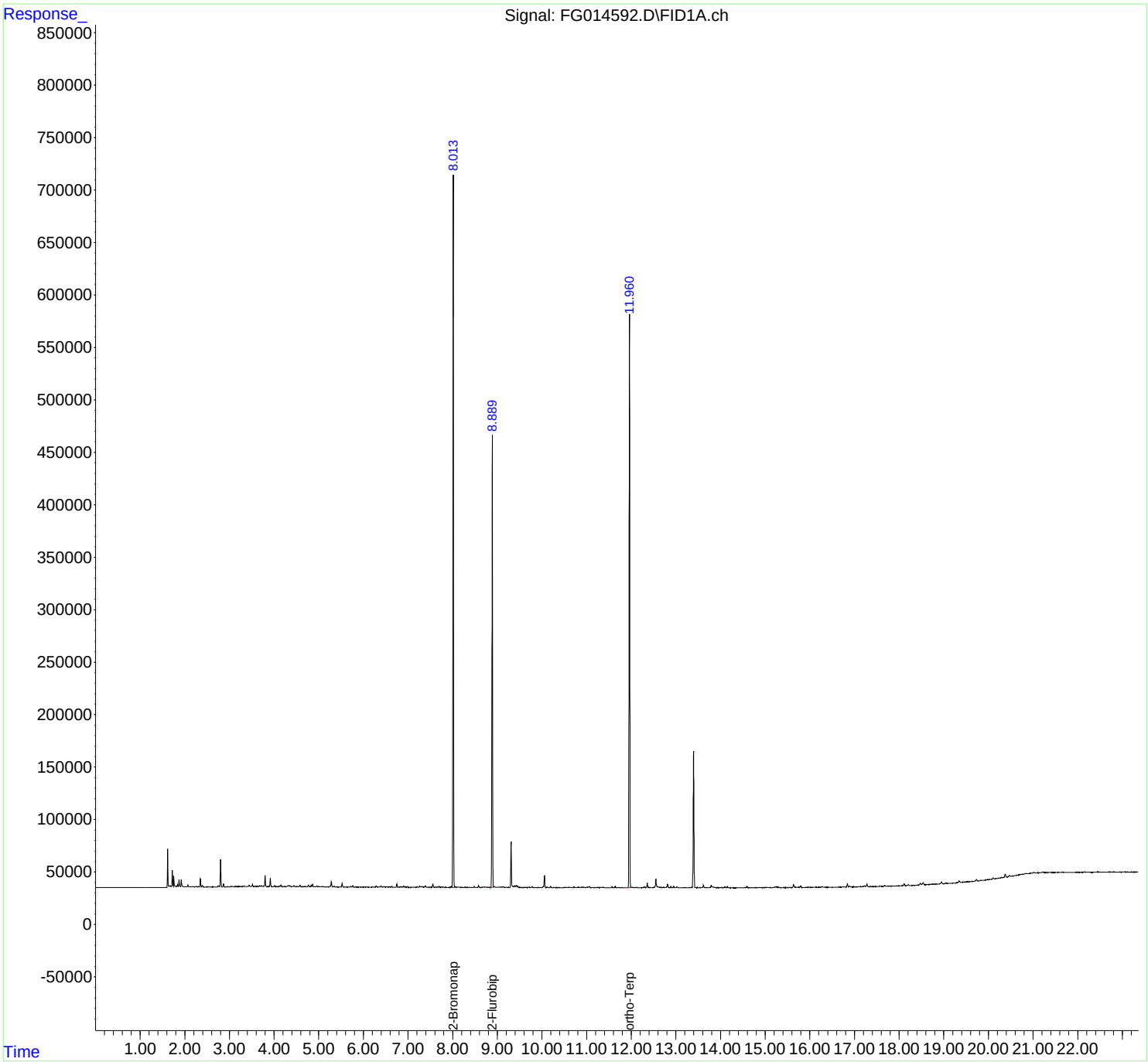
(f)=RT Delta > 1/2 Window (m)=manual int.

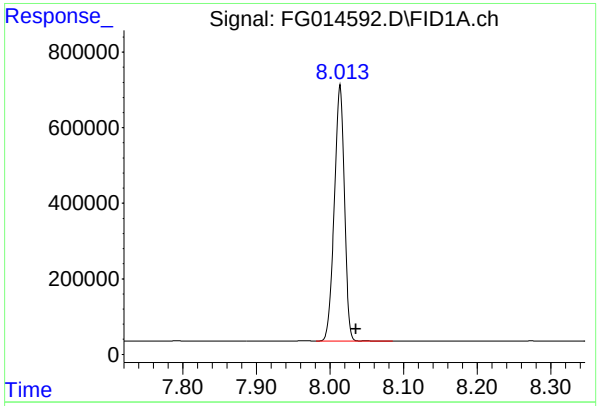
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014592.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 01:11
Operator : YP\AJ
Sample : P4578-02
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
WB-305-SW-1

Integration File: autoint1.e
Quant Time: Oct 31 06:45:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

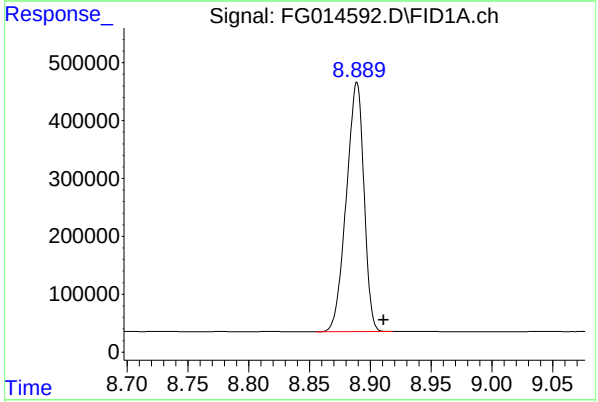




#4 2-Bromonaphthalene (SURR)

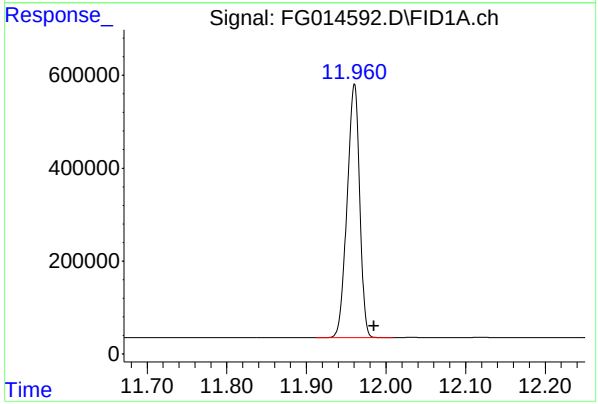
R.T.: 8.014 min
Delta R.T.: -0.022 min
Response: 6487135
Conc: 51.68 ug/ml

Instrument :
FID_G
ClientSampleId :
WB-305-SW-1



#6 2-Flurobiphenyl (SURR)

R.T.: 8.889 min
Delta R.T.: -0.022 min
Response: 4346977
Conc: 50.47 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.960 min
Delta R.T.: -0.025 min
Response: 5979246
Conc: 40.38 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014592.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 01:11
Sample : P4578-02
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.799	3.779	3.852	BB	10497	94800	1.46%	0.490%
2	3.915	3.862	3.965	BB	8096	82141	1.27%	0.425%
3	5.283	5.175	5.313	BV	5207	76733	1.18%	0.397%
4	5.525	5.385	5.562	BB	3623	45214	0.70%	0.234%
5	8.014	7.981	8.085	VB	668460	6487135	100.00%	33.525%
6	8.889	8.855	8.919	BV	431948	4346977	67.01%	22.465%
7	9.310	9.269	9.370	BV	43148	443706	6.84%	2.293%
8	10.057	9.999	10.088	BV	11393	134510	2.07%	0.695%
9	11.960	11.912	12.009	BV	540221	5979246	92.17%	30.901%
10	12.360	12.322	12.384	VV	4422	50504	0.78%	0.261%
11	12.552	12.425	12.622	PV	7884	118138	1.82%	0.611%
12	13.396	13.362	13.430	VB	128636	1490809	22.98%	7.704%
			Sum of corrected areas:			19349914		

Aromatic EPH 102124.M Thu Oct 31 07:09:35 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067577.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:08
Operator : YP/AJ
Sample : P4578-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-TOP

Integration File: autoint1.e
Quant Time: Nov 01 00:20:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.931	3245347	30.053 ug/ml
Spiked Amount 50.000		Recovery =	60.11%
Target Compounds			

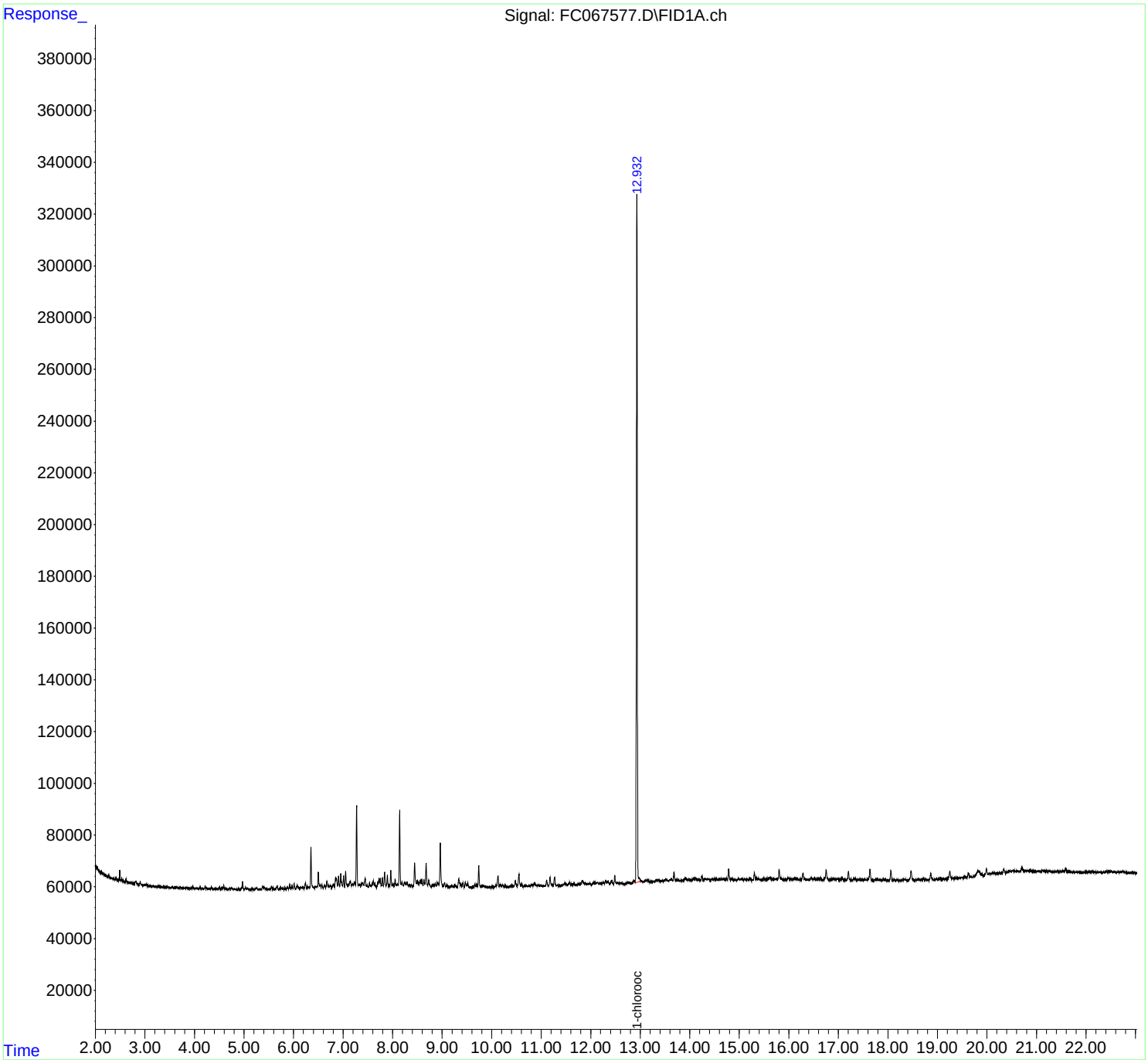
(f)=RT Delta > 1/2 Window (m)=manual int.

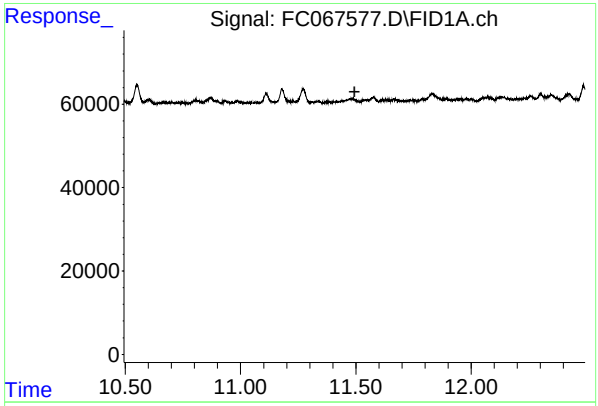
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067577.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:08
Operator : YP/AJ
Sample : P4578-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-TOP

Integration File: autoint1.e
Quant Time: Nov 01 00:20:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

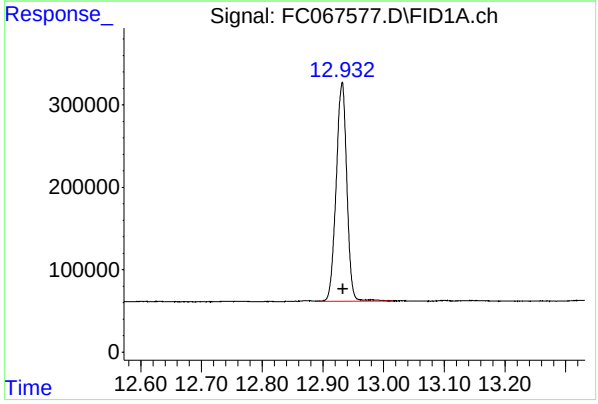




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-305-TOP



#12 1-chlorooctadecane (SURR)

R.T.: 12.931 min
Delta R.T.: -0.002 min
Response: 3245347
Conc: 30.05 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067577.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:08
Sample : P4578-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.171	3.308	BV	304	4962	0.15%	0.030%
2	3.315	3.308	3.339	VV	125	962	0.03%	0.006%
3	3.374	3.339	3.385	PV	224	2251	0.07%	0.014%
4	3.399	3.385	3.412	VV	183	2072	0.06%	0.013%
5	3.430	3.412	3.448	VV	234	3246	0.10%	0.020%
6	3.454	3.448	3.465	VV	189	1384	0.04%	0.008%
7	3.475	3.465	3.510	VV	184	2405	0.07%	0.015%
8	3.539	3.510	3.587	PV	266	6635	0.20%	0.040%
9	3.601	3.587	3.622	VV	317	4054	0.12%	0.025%
10	3.646	3.622	3.688	VV	564	7232	0.22%	0.044%
11	3.717	3.688	3.735	VV	417	4571	0.14%	0.028%
12	3.744	3.735	3.750	PV	40	428	0.01%	0.003%
13	3.765	3.750	3.795	VV	227	3201	0.10%	0.019%
14	3.811	3.795	3.825	VV	308	2989	0.09%	0.018%
15	3.842	3.825	3.910	VV	463	9385	0.29%	0.057%
16	3.941	3.910	3.953	PV	404	4661	0.14%	0.028%
17	3.968	3.953	4.021	VV	680	9593	0.29%	0.058%
18	4.035	4.021	4.071	VV	241	2399	0.07%	0.015%
19	4.115	4.071	4.133	PV	655	9954	0.30%	0.060%
20	4.145	4.133	4.193	VV	239	5102	0.16%	0.031%
21	4.216	4.193	4.236	VV	977	10490	0.32%	0.064%
22	4.249	4.236	4.281	VV	224	4476	0.14%	0.027%
23	4.292	4.281	4.321	VV	237	3655	0.11%	0.022%
24	4.340	4.321	4.368	VV	697	8180	0.25%	0.050%
25	4.377	4.368	4.393	VV	139	1483	0.05%	0.009%
26	4.409	4.393	4.424	VV	164	1935	0.06%	0.012%
27	4.450	4.424	4.470	VV	306	4747	0.14%	0.029%
28	4.506	4.470	4.525	VV	930	12866	0.39%	0.078%
29	4.536	4.525	4.548	VV	385	3502	0.11%	0.021%
30	4.562	4.548	4.575	VV	879	8640	0.26%	0.052%
31	4.592	4.575	4.611	VV	1632	16713	0.51%	0.101%
32	4.617	4.611	4.633	VV	254	2720	0.08%	0.016%
33	4.646	4.633	4.681	VV	209	4521	0.14%	0.027%
34	4.713	4.681	4.729	VV	503	7517	0.23%	0.046%
35	4.753	4.729	4.775	VV	528	10583	0.32%	0.064%
36	4.786	4.775	4.798	VV	265	3198	0.10%	0.019%

rteres

37	4.808	4.798	4.843	VV	372	4005	0.12%	0.024%
38	4.862	4.843	4.874	PV	277	2566	0.08%	0.016%
39	4.893	4.874	4.925	VV	314	5112	0.16%	0.031%
40	4.970	4.925	5.008	VV	3102	44886	1.37%	0.272%
41	5.027	5.008	5.042	VV	848	10477	0.32%	0.063%
42	5.054	5.042	5.065	VV	550	5606	0.17%	0.034%
43	5.076	5.065	5.113	VV	431	6559	0.20%	0.040%
44	5.132	5.113	5.142	PV	168	1707	0.05%	0.010%
45	5.149	5.142	5.153	VV	125	750	0.02%	0.005%
46	5.170	5.153	5.185	VV	380	4362	0.13%	0.026%
47	5.201	5.185	5.221	VV	303	4960	0.15%	0.030%
48	5.261	5.221	5.281	VV	940	16936	0.52%	0.103%
49	5.303	5.281	5.345	VV	288	6928	0.21%	0.042%
50	5.373	5.345	5.385	VV	1404	15779	0.48%	0.096%
51	5.393	5.385	5.404	VV	1089	10614	0.32%	0.064%
52	5.413	5.404	5.456	VV	1091	15867	0.48%	0.096%
53	5.469	5.456	5.485	VV	279	2574	0.08%	0.016%
54	5.496	5.485	5.525	PV	110	1963	0.06%	0.012%
55	5.555	5.525	5.575	VV	1369	18164	0.55%	0.110%
56	5.586	5.575	5.611	VV	576	5992	0.18%	0.036%
57	5.620	5.611	5.638	VV	329	3259	0.10%	0.020%
58	5.670	5.638	5.700	VV	1479	25300	0.77%	0.153%
59	5.741	5.700	5.752	VV	760	11089	0.34%	0.067%
60	5.761	5.752	5.771	VV	543	5515	0.17%	0.033%
61	5.784	5.771	5.804	VV	585	7184	0.22%	0.043%
62	5.825	5.804	5.847	VV	719	8453	0.26%	0.051%
63	5.877	5.847	5.896	VV	808	12696	0.39%	0.077%
64	5.925	5.896	5.946	VV	1440	24344	0.74%	0.147%
65	5.969	5.946	5.991	VV	1669	23671	0.72%	0.143%
66	6.012	5.991	6.041	VV	2348	30204	0.92%	0.183%
67	6.073	6.041	6.092	VV	1896	29435	0.90%	0.178%
68	6.102	6.092	6.119	VV	785	10289	0.31%	0.062%
69	6.157	6.119	6.171	VV	769	17927	0.55%	0.109%
70	6.187	6.171	6.215	VV	1209	18145	0.55%	0.110%
71	6.242	6.215	6.263	VV	2519	40345	1.23%	0.244%
72	6.281	6.263	6.297	VV	1010	16372	0.50%	0.099%
73	6.309	6.297	6.326	VV	790	12507	0.38%	0.076%
74	6.352	6.326	6.422	VV	16206	201364	6.15%	1.219%
75	6.442	6.422	6.460	VV	1244	21002	0.64%	0.127%
76	6.501	6.460	6.525	VV	6668	96402	2.94%	0.584%
77	6.538	6.525	6.558	VV	1848	26633	0.81%	0.161%
78	6.572	6.558	6.597	VV	1944	27019	0.83%	0.164%
79	6.627	6.597	6.648	VV	1317	29976	0.92%	0.181%
80	6.674	6.648	6.698	VV	3043	53038	1.62%	0.321%
81	6.709	6.698	6.721	VV	1351	14482	0.44%	0.088%
82	6.739	6.721	6.767	VV	1464	29136	0.89%	0.176%
83	6.809	6.767	6.826	VV	1625	40028	1.22%	0.242%
84	6.850	6.826	6.889	VV	4522	108530	3.31%	0.657%
85	6.909	6.889	6.933	VV	5026	70111	2.14%	0.424%
86	6.954	6.933	6.990	VV	5952	97739	2.98%	0.592%
87	7.011	6.990	7.031	VV	5105	64119	1.96%	0.388%
88	7.053	7.031	7.091	VV	6821	101891	3.11%	0.617%
89	7.107	7.091	7.119	VV	1924	25724	0.79%	0.156%

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90	7.150	7.119	7.171	VV	2922	69137	2.11%	0.419%
91	7.195	7.171	7.208	VV	1859	34869	1.06%	0.211%
92	7.227	7.208	7.250	VV	2524	51477	1.57%	0.312%
93	7.274	7.250	7.305	VV	32243	369701	11.29%	2.238%
94	7.324	7.305	7.350	VV	1711	40852	1.25%	0.247%
95	7.366	7.350	7.379	VV	2007	28185	0.86%	0.171%
96	7.398	7.379	7.420	VV	2362	47189	1.44%	0.286%
97	7.446	7.420	7.472	VV	4147	76959	2.35%	0.466%
98	7.486	7.472	7.511	VV	1425	23143	0.71%	0.140%
99	7.534	7.511	7.568	VV	2441	46052	1.41%	0.279%
100	7.586	7.568	7.593	VV	1724	21351	0.65%	0.129%
101	7.611	7.593	7.627	VV	3129	44985	1.37%	0.272%
102	7.640	7.627	7.675	VV	1894	35744	1.09%	0.216%
103	7.700	7.675	7.711	VV	2542	33738	1.03%	0.204%
104	7.728	7.711	7.741	VV	4074	53780	1.64%	0.326%
105	7.752	7.741	7.771	VV	3849	45879	1.40%	0.278%
106	7.794	7.771	7.815	VV	4231	60446	1.85%	0.366%
107	7.840	7.815	7.865	VV	6375	92345	2.82%	0.559%
108	7.896	7.865	7.919	VV	5147	76628	2.34%	0.464%
109	7.934	7.919	7.944	VV	1272	15818	0.48%	0.096%
110	7.965	7.944	7.988	VV	7010	88060	2.69%	0.533%
111	8.011	7.988	8.031	VV	1540	33267	1.02%	0.201%
112	8.051	8.031	8.075	VV	3646	51974	1.59%	0.315%
113	8.106	8.075	8.113	VV	1554	33949	1.04%	0.206%
114	8.144	8.113	8.175	VV	30221	360771	11.02%	2.184%
115	8.191	8.175	8.216	VV	2588	43121	1.32%	0.261%
116	8.239	8.216	8.272	VV	2274	58729	1.79%	0.356%
117	8.292	8.272	8.316	VV	2482	47981	1.47%	0.290%
118	8.336	8.316	8.363	VV	1501	33933	1.04%	0.205%
119	8.382	8.363	8.405	VV	1281	25237	0.77%	0.153%
120	8.446	8.405	8.482	VV	9843	165028	5.04%	0.999%
121	8.497	8.482	8.528	VV	3090	60939	1.86%	0.369%
122	8.560	8.528	8.576	VV	2934	65706	2.01%	0.398%
123	8.592	8.576	8.614	VV	3392	52834	1.61%	0.320%
124	8.633	8.614	8.649	VV	3261	45976	1.40%	0.278%
125	8.678	8.649	8.708	VV	9621	143420	4.38%	0.868%
126	8.730	8.708	8.776	VV	3201	61189	1.87%	0.370%
127	8.801	8.776	8.812	VV	1162	18376	0.56%	0.111%
128	8.827	8.812	8.845	VV	1328	21028	0.64%	0.127%
129	8.862	8.845	8.878	VV	1622	23744	0.73%	0.144%
130	8.902	8.878	8.926	VV	2043	43068	1.32%	0.261%
131	8.964	8.926	9.027	VV	17501	266310	8.13%	1.612%
132	9.049	9.027	9.071	VV	1958	32602	1.00%	0.197%
133	9.095	9.071	9.133	VV	1073	24552	0.75%	0.149%
134	9.162	9.133	9.173	VV	605	10056	0.31%	0.061%
135	9.197	9.173	9.231	VV	777	21487	0.66%	0.130%
136	9.263	9.231	9.305	VV	1002	26763	0.82%	0.162%
137	9.336	9.305	9.369	VV	3580	68034	2.08%	0.412%
138	9.382	9.369	9.398	VV	1240	16241	0.50%	0.098%
139	9.423	9.398	9.444	VV	1840	31525	0.96%	0.191%
140	9.468	9.444	9.488	VV	2237	31602	0.97%	0.191%
141	9.521	9.488	9.567	VV	1968	37355	1.14%	0.226%

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142	9.576	9.567	9.597	VV	258	2954	0.09%	0.018%
143	9.611	9.597	9.632	VV	208	2595	0.08%	0.016%
144	9.661	9.632	9.678	VV	1369	17711	0.54%	0.107%
145	9.696	9.678	9.717	VV	1163	20134	0.61%	0.122%
146	9.741	9.717	9.786	VV	8331	107896	3.29%	0.653%
147	9.813	9.786	9.830	VV	791	16701	0.51%	0.101%
148	9.842	9.830	9.885	VV	710	13154	0.40%	0.080%
149	9.912	9.885	9.934	VV	243	3874	0.12%	0.023%
150	9.987	9.934	10.001	VV	267	6585	0.20%	0.040%
151	10.020	10.001	10.035	VV	390	5255	0.16%	0.032%
152	10.088	10.035	10.098	VV	1019	15754	0.48%	0.095%
153	10.128	10.098	10.155	VV	4408	71615	2.19%	0.434%
154	10.177	10.155	10.197	VV	940	16332	0.50%	0.099%
155	10.218	10.197	10.246	VV	945	17237	0.53%	0.104%
156	10.273	10.246	10.301	VV	1060	15418	0.47%	0.093%
157	10.334	10.301	10.353	PV	272	4648	0.14%	0.028%
158	10.374	10.353	10.393	VV	441	7851	0.24%	0.048%
159	10.411	10.393	10.437	VV	737	13701	0.42%	0.083%
160	10.479	10.437	10.516	VV	2537	49111	1.50%	0.297%
161	10.551	10.516	10.581	VV	4782	82620	2.52%	0.500%
162	10.602	10.581	10.631	VV	1110	22612	0.69%	0.137%
163	10.669	10.631	10.684	VV	531	11863	0.36%	0.072%
164	10.695	10.684	10.717	VV	462	8147	0.25%	0.049%
165	10.734	10.717	10.776	VV	422	12280	0.37%	0.074%
166	10.805	10.776	10.838	VV	933	23946	0.73%	0.145%
167	10.869	10.838	10.918	VV	1518	42210	1.29%	0.256%
168	10.932	10.918	10.965	VV	708	13863	0.42%	0.084%
169	10.985	10.965	11.025	VV	763	15512	0.47%	0.094%
170	11.030	11.025	11.051	VV	319	4702	0.14%	0.028%
171	11.111	11.051	11.145	VV	2494	48037	1.47%	0.291%
172	11.180	11.145	11.236	VV	3492	67051	2.05%	0.406%
173	11.272	11.236	11.301	VV	3561	63339	1.93%	0.383%
174	11.332	11.301	11.357	VV	574	12666	0.39%	0.077%
175	11.379	11.357	11.398	VV	383	7521	0.23%	0.046%
176	11.478	11.398	11.518	VV	1090	47091	1.44%	0.285%
177	11.541	11.518	11.551	VV	774	12889	0.39%	0.078%
178	11.575	11.551	11.601	VV	1455	28121	0.86%	0.170%
179	11.616	11.601	11.628	VV	838	10855	0.33%	0.066%
180	11.635	11.628	11.648	VV	782	8551	0.26%	0.052%
181	11.665	11.648	11.715	VV	976	26115	0.80%	0.158%
182	11.749	11.715	11.764	VV	713	17748	0.54%	0.107%
183	11.830	11.764	11.876	VV	2180	80774	2.47%	0.489%
184	11.891	11.876	11.915	VV	966	18497	0.56%	0.112%
185	11.949	11.915	11.967	VV	851	23865	0.73%	0.144%
186	11.980	11.967	11.995	VV	963	14247	0.44%	0.086%
187	12.003	11.995	12.021	VV	790	10569	0.32%	0.064%
188	12.070	12.021	12.103	VV	1321	46413	1.42%	0.281%
189	12.135	12.103	12.185	VV	1337	48894	1.49%	0.296%
190	12.200	12.185	12.215	VV	864	14834	0.45%	0.090%
191	12.257	12.215	12.279	VV	1496	41779	1.28%	0.253%
192	12.301	12.279	12.321	VV	1926	35615	1.09%	0.216%
193	12.348	12.321	12.387	VV	1707	49281	1.50%	0.298%
194	12.424	12.387	12.460	VV	1967	51463	1.57%	0.312%

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195	12.487	12.460	12.535	VV	3833	72969	2.23%	0.442%
196	12.553	12.535	12.587	VV	1066	29010	0.89%	0.176%
197	12.602	12.587	12.618	VV	998	16936	0.52%	0.103%
198	12.632	12.618	12.688	VV	1039	28319	0.86%	0.171%
199	12.702	12.688	12.715	VV	644	9207	0.28%	0.056%
200	12.740	12.715	12.794	VV	1162	40804	1.25%	0.247%
201	12.814	12.794	12.835	VV	1004	19396	0.59%	0.117%
202	12.873	12.835	12.891	VV	1832	44596	1.36%	0.270%
203	12.931	12.891	12.969	VV	264920	3274680	100.00%	19.824%
204	12.980	12.969	13.079	VV	2796	115682	3.53%	0.700%
205	13.100	13.079	13.116	VV	2038	36131	1.10%	0.219%
206	13.148	13.116	13.191	VV	1886	71551	2.18%	0.433%
207	13.266	13.191	13.283	VV	1421	68761	2.10%	0.416%
208	13.327	13.283	13.355	VV	2082	69147	2.11%	0.419%
209	13.365	13.355	13.395	VV	1825	40781	1.25%	0.247%
210	13.402	13.395	13.428	VV	1629	30828	0.94%	0.187%
211	13.444	13.428	13.458	VV	1596	25709	0.79%	0.156%
212	13.481	13.458	13.491	VV	1724	31072	0.95%	0.188%
213	13.522	13.491	13.575	VV	2089	85883	2.62%	0.520%
214	13.595	13.575	13.612	VV	1867	37896	1.16%	0.229%
215	13.630	13.612	13.653	VV	2283	46869	1.43%	0.284%
216	13.682	13.653	13.711	VV	4838	95297	2.91%	0.577%
217	13.736	13.711	13.750	VV	1925	40767	1.24%	0.247%
218	13.769	13.750	13.799	VV	1893	46773	1.43%	0.283%
219	13.834	13.799	13.849	VV	1570	42650	1.30%	0.258%
220	13.859	13.849	13.865	VV	1491	13160	0.40%	0.080%
221	13.907	13.865	13.939	VV	2317	85579	2.61%	0.518%
222	13.948	13.939	13.965	VV	1785	26219	0.80%	0.159%
223	13.981	13.965	14.031	VV	1947	67673	2.07%	0.410%
224	14.069	14.031	14.085	VV	1973	58440	1.78%	0.354%
225	14.118	14.085	14.150	VV	2422	78501	2.40%	0.475%
226	14.159	14.150	14.218	VV	1784	65876	2.01%	0.399%
227	14.245	14.218	14.283	VV	3305	81508	2.49%	0.493%
228	14.306	14.283	14.331	VV	2016	53455	1.63%	0.324%
229	14.338	14.331	14.354	VV	1963	25940	0.79%	0.157%
230	14.367	14.354	14.415	VV	2000	63157	1.93%	0.382%
231	14.449	14.415	14.478	VV	1953	67220	2.05%	0.407%
232	14.499	14.478	14.512	VV	1872	36095	1.10%	0.219%
233	14.527	14.512	14.543	VV	1995	33533	1.02%	0.203%
234	14.560	14.543	14.577	VV	1772	33717	1.03%	0.204%
235	14.594	14.577	14.615	VV	1891	37413	1.14%	0.226%
236	14.635	14.615	14.658	VV	1936	43750	1.34%	0.265%
237	14.675	14.658	14.720	VV	1891	63087	1.93%	0.382%
238	14.739	14.720	14.759	VV	2195	41600	1.27%	0.252%
239	14.784	14.759	14.825	VV	5664	113654	3.47%	0.688%
240	14.848	14.825	14.949	VV	1896	115640	3.53%	0.700%
241	14.983	14.949	15.011	VV	1837	57166	1.75%	0.346%
242	15.037	15.011	15.079	VV	1825	65917	2.01%	0.399%
243	15.116	15.079	15.151	VV	1602	64472	1.97%	0.390%
244	15.171	15.151	15.184	VV	1704	28862	0.88%	0.175%
245	15.210	15.184	15.255	VV	1967	64150	1.96%	0.388%
246	15.304	15.255	15.336	VV	3954	102905	3.14%	0.623%

rteres

247	15.352	15.336	15.411	VV	1952	75690	2.31%	0.458%
248	15.432	15.411	15.458	VV	1459	36595	1.12%	0.222%
249	15.487	15.458	15.498	VV	1680	34003	1.04%	0.206%
250	15.517	15.498	15.538	VV	1724	37603	1.15%	0.228%
251	15.561	15.538	15.574	VV	1624	32160	0.98%	0.195%
252	15.623	15.574	15.670	VV	1972	93034	2.84%	0.563%
253	15.691	15.670	15.711	VV	1600	36144	1.10%	0.219%
254	15.733	15.711	15.744	VV	1521	28456	0.87%	0.172%
255	15.764	15.744	15.777	VV	1768	30522	0.93%	0.185%
256	15.804	15.777	15.833	VV	5093	97153	2.97%	0.588%
257	15.843	15.833	15.880	VV	1711	42038	1.28%	0.254%
258	15.894	15.880	15.915	VV	1349	25125	0.77%	0.152%
259	15.934	15.915	15.948	VV	1177	22209	0.68%	0.134%
260	15.980	15.948	16.018	VV	1798	60978	1.86%	0.369%
261	16.032	16.018	16.071	VV	1461	42660	1.30%	0.258%
262	16.096	16.071	16.146	VV	1589	63352	1.93%	0.384%
263	16.161	16.146	16.211	VV	1514	49564	1.51%	0.300%
264	16.235	16.211	16.257	VV	1385	31802	0.97%	0.193%
265	16.286	16.257	16.311	VV	3566	69664	2.13%	0.422%
266	16.321	16.311	16.371	VV	1431	42460	1.30%	0.257%
267	16.391	16.371	16.403	VV	1214	20849	0.64%	0.126%
268	16.445	16.403	16.488	VV	1581	65096	1.99%	0.394%
269	16.516	16.488	16.535	VV	1484	37709	1.15%	0.228%
270	16.553	16.535	16.565	VV	1214	21475	0.66%	0.130%
271	16.584	16.565	16.608	VV	1296	30173	0.92%	0.183%
272	16.629	16.608	16.658	VV	1452	37608	1.15%	0.228%
273	16.673	16.658	16.695	VV	963	19704	0.60%	0.119%
274	16.719	16.695	16.728	VV	1519	24989	0.76%	0.151%
275	16.752	16.728	16.822	VV	4661	108769	3.32%	0.658%
276	16.875	16.822	16.884	VV	1189	36812	1.12%	0.223%
277	16.905	16.884	16.955	VV	1427	47643	1.45%	0.288%
278	16.980	16.955	17.009	VV	1323	32777	1.00%	0.198%
279	17.028	17.009	17.043	VV	958	18480	0.56%	0.112%
280	17.076	17.043	17.118	VV	1437	44792	1.37%	0.271%
281	17.139	17.118	17.170	VV	810	21936	0.67%	0.133%
282	17.201	17.170	17.281	VV	3896	89719	2.74%	0.543%
283	17.315	17.281	17.332	VV	1143	25439	0.78%	0.154%
284	17.348	17.332	17.390	VV	994	27803	0.85%	0.168%
285	17.405	17.390	17.464	VV	757	28379	0.87%	0.172%
286	17.475	17.464	17.510	VV	776	18254	0.56%	0.111%
287	17.532	17.510	17.557	VV	699	16877	0.52%	0.102%
288	17.637	17.557	17.705	VV	4596	106993	3.27%	0.648%
289	17.772	17.705	17.830	VV	1035	42487	1.30%	0.257%
290	17.847	17.830	17.890	VV	510	14489	0.44%	0.088%
291	17.923	17.890	17.938	VV	708	15857	0.48%	0.096%
292	17.945	17.938	17.991	VV	642	12063	0.37%	0.073%
293	18.002	17.991	18.031	VV	345	6676	0.20%	0.040%
294	18.060	18.031	18.101	VV	3946	63718	1.95%	0.386%
295	18.137	18.101	18.163	VV	443	10169	0.31%	0.062%
296	18.197	18.163	18.241	VV	424	9727	0.30%	0.059%
297	18.251	18.241	18.259	VV	206	1499	0.05%	0.009%
298	18.278	18.259	18.286	VV	179	2423	0.07%	0.015%
299	18.327	18.286	18.408	VV	505	17918	0.55%	0.108%

rteres

300	18.467	18.408	18.545	PV	3653	70546	2.15%	0.427%
301	18.565	18.545	18.575	VV	163	2524	0.08%	0.015%
302	18.596	18.575	18.608	VV	329	4703	0.14%	0.028%
303	18.612	18.608	18.625	VV	350	2714	0.08%	0.016%
304	18.655	18.625	18.687	VV	340	9552	0.29%	0.058%
305	18.718	18.687	18.758	VV	414	12389	0.38%	0.075%
306	18.765	18.758	18.795	VV	372	4122	0.13%	0.025%
307	18.865	18.795	18.939	PV	2731	47197	1.44%	0.286%
308	18.981	18.939	19.013	VV	266	6121	0.19%	0.037%
309	19.039	19.013	19.090	VV	422	11010	0.34%	0.067%
310	19.115	19.090	19.138	VV	313	6190	0.19%	0.037%
311	19.158	19.138	19.205	VV	194	4861	0.15%	0.029%
312	19.249	19.205	19.312	PV	3136	62484	1.91%	0.378%
313	19.325	19.312	19.341	VV	232	3200	0.10%	0.019%
314	19.355	19.341	19.387	VV	300	6735	0.21%	0.041%
315	19.402	19.387	19.425	VV	285	4869	0.15%	0.029%
316	19.429	19.425	19.457	VV	245	4020	0.12%	0.024%
317	19.484	19.457	19.509	VV	468	11440	0.35%	0.069%
318	19.547	19.509	19.583	VV	512	16645	0.51%	0.101%
319	19.624	19.583	19.655	VV	2017	39392	1.20%	0.238%
320	19.665	19.655	19.674	VV	464	5394	0.16%	0.033%
321	19.683	19.674	19.704	VV	489	6933	0.21%	0.042%
322	19.821	19.704	19.945	VV	2704	189481	5.79%	1.147%
323	19.988	19.945	20.018	VV	3028	75628	2.31%	0.458%
324	20.043	20.018	20.068	VV	1446	38385	1.17%	0.232%
325	20.131	20.068	20.151	VV	1610	70469	2.15%	0.427%
326	20.157	20.151	20.194	VV	1479	35497	1.08%	0.215%
327	20.257	20.194	20.305	VV	1426	90006	2.75%	0.545%
328	20.342	20.305	20.384	VV	2778	92537	2.83%	0.560%
329	20.515	20.384	20.608	VV	2206	246915	7.54%	1.495%
330	20.622	20.608	20.651	VV	1837	44828	1.37%	0.271%
331	20.706	20.651	20.755	VV	3091	133860	4.09%	0.810%
332	20.809	20.755	20.825	VV	1833	74392	2.27%	0.450%
333	20.852	20.825	20.898	VV	1791	73507	2.24%	0.445%
334	20.901	20.898	21.004	VV	1643	90111	2.75%	0.546%
335	21.030	21.004	21.085	VV	1441	63722	1.95%	0.386%
336	21.124	21.085	21.225	VV	1724	109162	3.33%	0.661%
337	21.254	21.225	21.278	VV	1114	33187	1.01%	0.201%
338	21.284	21.278	21.311	VV	1025	18815	0.57%	0.114%
339	21.319	21.311	21.344	VV	939	17493	0.53%	0.106%
340	21.354	21.344	21.375	VV	948	15989	0.49%	0.097%
341	21.382	21.375	21.391	VV	930	8989	0.27%	0.054%
342	21.412	21.391	21.444	VV	1005	28038	0.86%	0.170%
343	21.452	21.444	21.465	VV	881	9770	0.30%	0.059%
344	21.501	21.465	21.518	VV	834	25713	0.79%	0.156%
345	21.525	21.518	21.532	VV	807	6651	0.20%	0.040%
346	21.590	21.532	21.632	VV	1469	58881	1.80%	0.356%
347	21.647	21.632	21.701	VV	673	20900	0.64%	0.127%
348	21.733	21.701	21.810	VV	446	21006	0.64%	0.127%
349	21.821	21.810	21.882	VV	262	7564	0.23%	0.046%
350	21.890	21.882	21.921	VV	179	1972	0.06%	0.012%
351	21.934	21.921	21.982	VV	84	409	0.01%	0.002%

```
                                        rteres
 352 22.018  21.982  22.033  VV      144      1266   0.04%  0.008%
 353 22.068  22.033  22.078  PV      108      1654   0.05%  0.010%
                       Sum of corrected areas:    16518831

Aliphatic EPH 102324.M Fri Nov 01 00:57:45 2024
```

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048626.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 19:18
Operator : YP/AJ
Sample : P4578-03
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-305-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 01 01:03:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.372	6830901	45.006 ug/ml
Spiked Amount 50.000		Recovery =	90.01%
6) S 2-Flurobiphenyl (SURR)	8.221	4360661	44.410 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	88.82%
11) S ortho-Terphenyl (SURR)	11.255	3427636	20.122 ug/mlm
Spiked Amount 50.000		Recovery =	40.24%
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

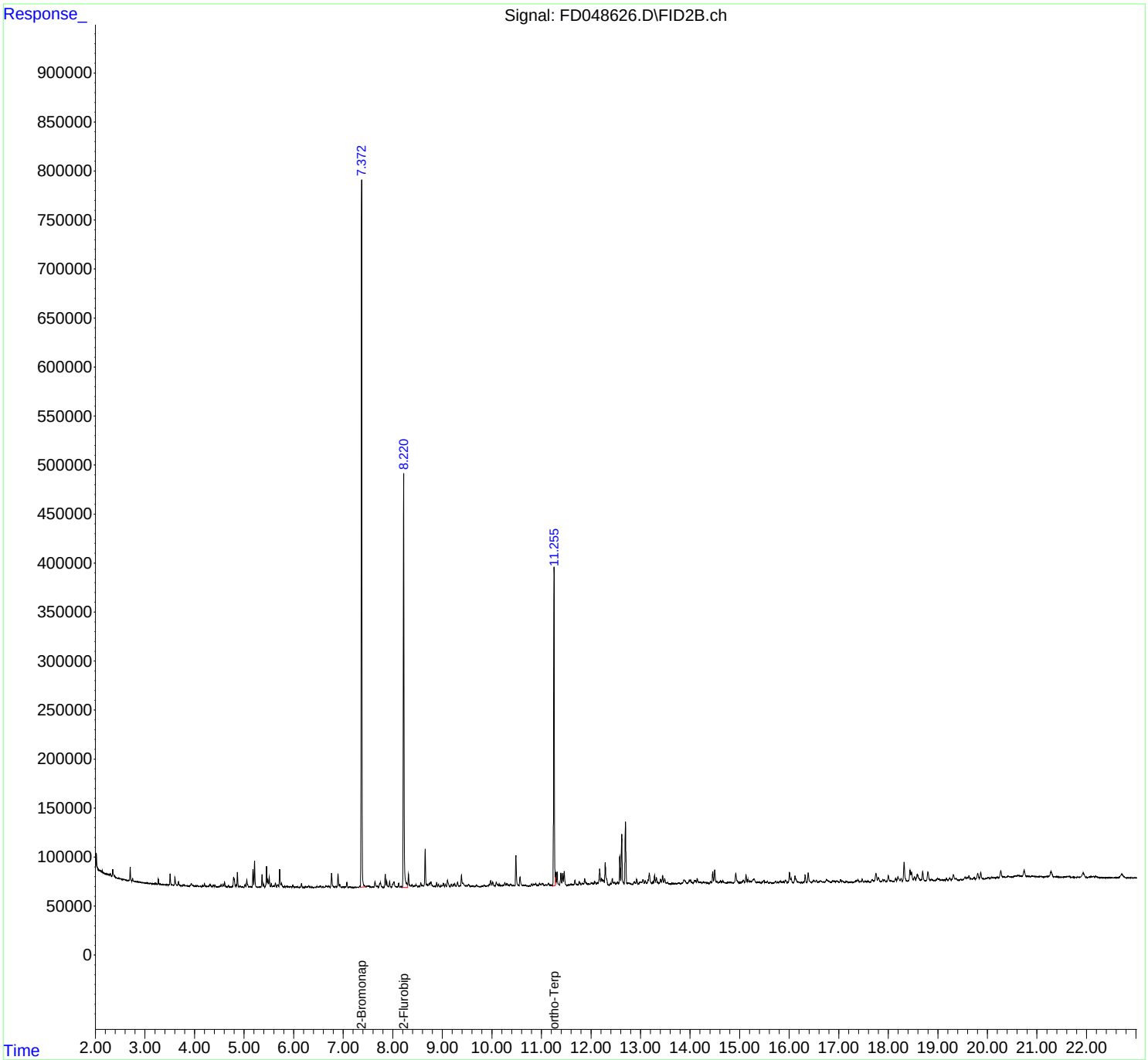
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048626.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 19:18
Operator : YP/AJ
Sample : P4578-03
Misc :
ALS Vial : 64 Sample Multiplier: 1

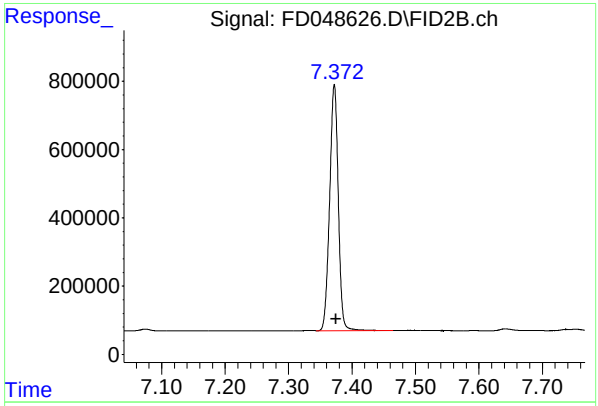
Integration File: autoint1.e
Quant Time: Nov 01 01:03:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
WB-305-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024





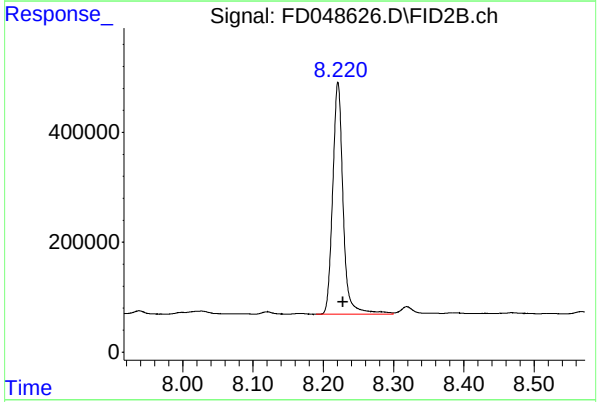
#4 2-Bromonaphthalene (SURR)

R.T.: 7.372 min
Delta R.T.: -0.003 min
Response: 6830901
Conc: 45.01 ug/ml

Instrument :
FID_D
ClientSampleId :
WB-305-TOP

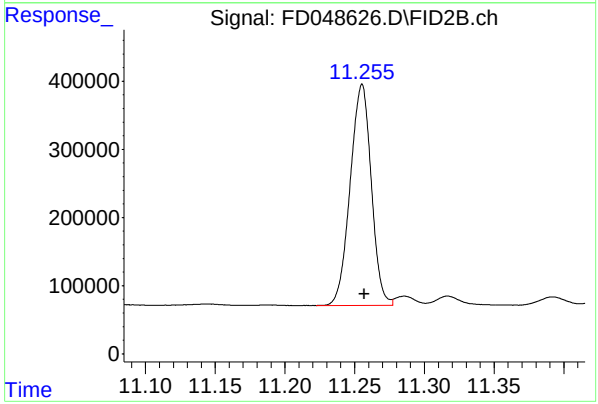
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



#6 2-Flurobiphenyl (SURR)

R.T.: 8.221 min
Delta R.T.: -0.007 min
Response: 4360661
Conc: 44.41 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.255 min
Delta R.T.: -0.002 min
Response: 3427636
Conc: 20.12 ug/ml m

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Instrument :
FID_D
ClientSampleId :
WB-305-TOP

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10302
Data File : FD048626.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 19:18
Sample : P4578-03
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.051	4.042	4.093	PH	775	11270	0.16%	0.033%
2	4.104	4.093	4.109	PV	256	1774	0.03%	0.005%
3	4.114	4.109	4.136	VV	354	2675	0.04%	0.008%
4	4.162	4.147	4.181	PV	1098	10009	0.15%	0.029%
5	4.201	4.181	4.222	VV	3268	31788	0.46%	0.093%
6	4.238	4.222	4.252	VV	410	4224	0.06%	0.012%
7	4.270	4.252	4.286	VV	812	9061	0.13%	0.026%
8	4.305	4.286	4.318	VV	2451	27430	0.40%	0.080%
9	4.327	4.318	4.347	VV	1930	20454	0.30%	0.060%
10	4.383	4.347	4.399	VV	1890	27935	0.41%	0.081%
11	4.413	4.399	4.431	VV	2086	21940	0.32%	0.064%
12	4.442	4.431	4.446	VV	308	2251	0.03%	0.007%
13	4.449	4.446	4.459	VV	258	1298	0.02%	0.004%
14	4.462	4.459	4.470	VV	241	1191	0.02%	0.003%
15	4.490	4.470	4.498	PV	612	6798	0.10%	0.020%
16	4.511	4.498	4.522	VV	1346	13470	0.20%	0.039%
17	4.536	4.522	4.559	VV	2975	34665	0.50%	0.101%
18	4.574	4.559	4.591	VV	2833	34814	0.51%	0.101%
19	4.607	4.591	4.647	VV	5272	63932	0.93%	0.186%
20	4.682	4.662	4.701	VV	1868	19745	0.29%	0.058%
21	4.707	4.701	4.723	VV	542	3702	0.05%	0.011%
22	4.730	4.723	4.748	VV	220	1289	0.02%	0.004%
23	4.764	4.748	4.768	VV	940	6035	0.09%	0.018%
24	4.789	4.768	4.798	VV	10537	105507	1.53%	0.307%
25	4.803	4.798	4.824	VV	8417	74256	1.08%	0.216%
26	4.839	4.824	4.849	VV	2854	27760	0.40%	0.081%
27	4.865	4.849	4.904	VV	15358	156054	2.27%	0.455%
28	4.920	4.904	4.950	VV	1292	17421	0.25%	0.051%
29	4.962	4.950	4.967	VV	485	3485	0.05%	0.010%
30	4.973	4.967	5.000	VV	617	6199	0.09%	0.018%
31	5.018	5.000	5.036	PV	2761	31549	0.46%	0.092%
32	5.055	5.036	5.102	VV	7720	106983	1.55%	0.312%
33	5.113	5.102	5.122	VV	789	7051	0.10%	0.021%
34	5.131	5.122	5.143	VV	891	7956	0.12%	0.023%
35	5.147	5.143	5.157	VV	526	3622	0.05%	0.011%
36	5.180	5.157	5.196	VV	18294	175774	2.55%	0.512%

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Instrument :
FID_D
ClientSampleId :
WB-305-TOP

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

rteres

37	5.212	5.196	5.272	VV	27003	282073	4.10%	0.822%
38	5.283	5.272	5.297	VV	548	5080		
39	5.304	5.297	5.314	VV	422	3068		
40	5.322	5.314	5.327	VV	319	2153		
41	5.363	5.327	5.384	VV	13261	133530		
42	5.395	5.384	5.415	VV	3649	36781		
43	5.454	5.415	5.469	VV	21830	233022	3.38%	0.679%
44	5.479	5.469	5.494	VV	8423	94107	1.37%	0.274%
45	5.508	5.494	5.531	VV	10843	115263	1.67%	0.336%
46	5.550	5.531	5.569	VV	4008	47166	0.68%	0.137%
47	5.584	5.569	5.588	VV	1493	13623	0.20%	0.040%
48	5.601	5.588	5.613	VV	1600	19277	0.28%	0.056%
49	5.632	5.613	5.655	VV	4675	61661	0.90%	0.180%
50	5.671	5.655	5.680	VV	2776	30337	0.44%	0.088%
51	5.687	5.680	5.701	VV	2738	26879	0.39%	0.078%
52	5.718	5.701	5.745	VV	18740	210708	3.06%	0.614%
53	5.756	5.745	5.806	VV	4501	69458	1.01%	0.202%
54	5.821	5.806	5.838	VV	1355	17383	0.25%	0.051%
55	5.851	5.838	5.864	VV	1510	17587	0.26%	0.051%
56	5.883	5.864	5.905	VV	1251	24306	0.35%	0.071%
57	5.916	5.905	5.927	VV	895	9601	0.14%	0.028%
58	5.935	5.927	5.963	VV	972	18282	0.27%	0.053%
59	5.979	5.963	6.009	VV	2380	38246	0.56%	0.111%
60	6.031	6.009	6.045	VV	507	7636	0.11%	0.022%
61	6.051	6.045	6.065	VV	648	6246	0.09%	0.018%
62	6.077	6.065	6.110	VV	1294	15621	0.23%	0.046%
63	6.125	6.110	6.132	VV	467	3434	0.05%	0.010%
64	6.159	6.132	6.192	VV	4163	52002	0.76%	0.152%
65	6.197	6.192	6.220	VV	362	4728	0.07%	0.014%
66	6.239	6.220	6.259	VV	1003	13015	0.19%	0.038%
67	6.275	6.259	6.287	VV	957	12245	0.18%	0.036%
68	6.305	6.287	6.325	VV	2296	28946	0.42%	0.084%
69	6.338	6.325	6.365	VV	977	14553	0.21%	0.042%
70	6.375	6.365	6.393	VV	914	9479	0.14%	0.028%
71	6.401	6.393	6.408	VV	317	1570	0.02%	0.005%
72	6.430	6.408	6.448	PV	776	10711	0.16%	0.031%
73	6.470	6.448	6.493	VV	1277	21046	0.31%	0.061%
74	6.501	6.493	6.510	VV	934	8375	0.12%	0.024%
75	6.543	6.510	6.571	VV	1802	39818	0.58%	0.116%
76	6.592	6.571	6.619	VV	1449	23145	0.34%	0.067%
77	6.652	6.619	6.661	VV	1635	23074	0.34%	0.067%
78	6.672	6.661	6.689	VV	1549	20705	0.30%	0.060%
79	6.713	6.689	6.739	VV	1856	37589	0.55%	0.110%
80	6.767	6.739	6.804	VV	14706	193889	2.82%	0.565%
81	6.810	6.804	6.832	VV	1329	17174	0.25%	0.050%
82	6.854	6.832	6.871	VV	1736	25113	0.36%	0.073%
83	6.896	6.871	6.920	VV	14374	165055	2.40%	0.481%
84	6.932	6.920	6.963	VV	3523	45615	0.66%	0.133%
85	6.970	6.963	6.982	VV	587	4933	0.07%	0.014%
86	6.994	6.982	7.029	VV	933	18171	0.26%	0.053%
87	7.043	7.029	7.054	VV	740	8288	0.12%	0.024%
88	7.075	7.054	7.103	VV	5496	61994	0.90%	0.181%
89	7.109	7.103	7.112	VV	419	1946	0.03%	0.006%

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90	7.130	7.112	7.152	VV	690	12246	0.18%	0.036%
91	7.165	7.152	7.183	VV	727	8206		
92	7.195	7.183	7.205	VV	324	2629		
93	7.210	7.205	7.217	VV	273	1316		
94	7.246	7.217	7.262	VV	580	10108		
95	7.271	7.262	7.275	VV	302	1871		
96	7.288	7.275	7.314	VV	604	9906	0.14%	0.029%
97	7.332	7.314	7.345	VV	1527	17320	0.25%	0.050%
98	7.372	7.345	7.470	VV	721750	6887425	100.00%	20.066%
99	7.492	7.470	7.515	VV	1712	38174	0.55%	0.111%
100	7.525	7.515	7.542	VV	1436	18978	0.28%	0.055%
101	7.549	7.542	7.570	VV	960	11244	0.16%	0.033%
102	7.575	7.570	7.580	VV	474	2684	0.04%	0.008%
103	7.593	7.580	7.613	VV	995	13135	0.19%	0.038%
104	7.642	7.613	7.674	VV	6090	94948	1.38%	0.277%
105	7.687	7.674	7.709	VV	1585	24121	0.35%	0.070%
106	7.738	7.709	7.744	VV	4480	47736	0.69%	0.139%
107	7.753	7.744	7.804	VV	4907	72596	1.05%	0.212%
108	7.807	7.804	7.820	VV	429	2900	0.04%	0.008%
109	7.850	7.820	7.866	VV	13508	146858	2.13%	0.428%
110	7.879	7.866	7.908	VV	6558	84404	1.23%	0.246%
111	7.938	7.908	7.974	VV	6496	87339	1.27%	0.254%
112	7.999	7.974	8.005	VV	3537	36470	0.53%	0.106%
113	8.027	8.005	8.072	VV	5871	120167	1.74%	0.350%
114	8.087	8.072	8.100	VV	941	12711	0.18%	0.037%
115	8.120	8.100	8.149	VV	4547	51841	0.75%	0.151%
116	8.166	8.149	8.192	VV	1497	18033	0.26%	0.053%
117	8.221	8.192	8.300	PV	422699	4366071	63.39%	12.720%
118	8.319	8.300	8.369	VV	13940	200535	2.91%	0.584%
119	8.386	8.369	8.420	VV	2649	55154	0.80%	0.161%
120	8.431	8.420	8.443	VV	1572	19593	0.28%	0.057%
121	8.468	8.443	8.505	VV	2785	64110	0.93%	0.187%
122	8.519	8.505	8.543	VV	1319	24343	0.35%	0.071%
123	8.568	8.543	8.587	VV	4545	65924	0.96%	0.192%
124	8.598	8.587	8.624	VV	2128	37493	0.54%	0.109%
125	8.656	8.624	8.681	VV	39085	430491	6.25%	1.254%
126	8.689	8.681	8.712	VV	3170	45627	0.66%	0.133%
127	8.735	8.712	8.745	VV	4102	58155	0.84%	0.169%
128	8.774	8.745	8.824	VV	5606	137344	1.99%	0.400%
129	8.841	8.824	8.866	VV	1040	20024	0.29%	0.058%
130	8.888	8.866	8.907	VV	4742	57434	0.83%	0.167%
131	8.924	8.907	8.952	VV	3174	43192	0.63%	0.126%
132	8.974	8.952	8.989	VV	1662	24983	0.36%	0.073%
133	9.022	8.989	9.045	VV	3879	67833	0.98%	0.198%
134	9.062	9.045	9.085	VV	3250	40437	0.59%	0.118%
135	9.105	9.085	9.160	VV	7237	131781	1.91%	0.384%
136	9.183	9.160	9.204	VV	3132	43166	0.63%	0.126%
137	9.223	9.204	9.235	VV	3196	37529	0.54%	0.109%
138	9.251	9.235	9.278	VV	3757	54672	0.79%	0.159%
139	9.309	9.278	9.337	VV	5030	83866	1.22%	0.244%
140	9.356	9.337	9.368	VV	1422	21677	0.31%	0.063%
141	9.388	9.368	9.409	VV	12352	157768	2.29%	0.460%

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142	9.420	9.409	9.467	VV	4028	85960	1.25%	0.250%
143	9.480	9.467	9.492	VV	1622	19482		
144	9.528	9.492	9.566	VV	2796	62986		
145	9.571	9.566	9.582	VV	586	5251		
146	9.620	9.582	9.660	VV	990	29370		
147	9.692	9.660	9.720	VV	1671	31518		
148	9.725	9.720	9.750	VV	578	5118	0.07%	0.015%
149	9.805	9.750	9.823	PV	825	17231	0.25%	0.050%
150	9.844	9.823	9.882	VV	1779	33457	0.49%	0.097%
151	9.911	9.882	9.926	VV	1322	22975	0.33%	0.067%
152	9.946	9.926	9.956	VV	2454	32083	0.47%	0.093%
153	9.977	9.956	10.001	VV	6272	100422	1.46%	0.293%
154	10.019	10.001	10.053	VV	4741	80297	1.17%	0.234%
155	10.066	10.053	10.073	VV	1174	12194	0.18%	0.036%
156	10.090	10.073	10.130	VV	4642	87620	1.27%	0.255%
157	10.150	10.130	10.175	VV	2345	41693	0.61%	0.121%
158	10.184	10.175	10.201	VV	1214	14952	0.22%	0.044%
159	10.231	10.201	10.242	VV	1797	29660	0.43%	0.086%
160	10.264	10.242	10.282	VV	4180	61211	0.89%	0.178%
161	10.302	10.282	10.331	VV	2848	58697	0.85%	0.171%
162	10.333	10.331	10.355	VV	1522	19335	0.28%	0.056%
163	10.384	10.355	10.409	VV	2412	50954	0.74%	0.148%
164	10.432	10.409	10.447	VV	1362	18679	0.27%	0.054%
165	10.487	10.447	10.545	VV	31467	416390	6.05%	1.213%
166	10.569	10.545	10.613	VV	9576	154366	2.24%	0.450%
167	10.619	10.613	10.649	VV	991	17574	0.26%	0.051%
168	10.653	10.649	10.658	VV	714	3553	0.05%	0.010%
169	10.680	10.658	10.703	VV	1193	22307	0.32%	0.065%
170	10.713	10.703	10.750	VV	600	9209	0.13%	0.027%
171	10.766	10.750	10.779	VV	425	4630	0.07%	0.013%
172	10.805	10.779	10.824	VV	2349	36540	0.53%	0.106%
173	10.838	10.824	10.850	VV	2023	23316	0.34%	0.068%
174	10.860	10.850	10.871	VV	1814	20200	0.29%	0.059%
175	10.886	10.871	10.912	VV	2687	41103	0.60%	0.120%
176	10.921	10.912	10.940	VV	841	11298	0.16%	0.033%
177	10.961	10.940	10.998	VV	2421	58187	0.84%	0.170%
178	11.017	10.998	11.061	VV	2834	66806	0.97%	0.195%
179	11.085	11.061	11.106	VV	1650	28219	0.41%	0.082%
180	11.143	11.106	11.168	VV	2725	57185	0.83%	0.167%
181	11.187	11.168	11.210	VV	1316	20083	0.29%	0.059%
182	11.216	11.210	11.219	VV	501	2270	0.03%	0.007%
183	11.255	11.219	11.277	VV	325312	3432451	49.84%	10.000%
184	11.286	11.277	11.301	VV	14190	146394	2.13%	0.427%
185	11.317	11.301	11.369	VV	14208	197360	2.87%	0.575%
186	11.392	11.369	11.412	VV	12964	180665	2.62%	0.526%
187	11.430	11.412	11.445	VV	13020	156906	2.28%	0.457%
188	11.462	11.445	11.527	VV	14663	213775	3.10%	0.623%
189	11.547	11.527	11.565	VV	1187	18371	0.27%	0.054%
190	11.587	11.565	11.615	VV	1670	36234	0.53%	0.106%
191	11.625	11.615	11.652	VV	1191	21744	0.32%	0.063%
192	11.678	11.652	11.735	VV	5593	107193	1.56%	0.312%
193	11.762	11.735	11.803	VV	4345	86106	1.25%	0.251%
194	11.824	11.803	11.851	VV	2440	53115	0.77%	0.155%

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195	11.873	11.851	11.923	VV	7110	143269	2.08%	0.417%
196	11.952	11.923	11.969	VV	1819	42745		
197	12.005	11.969	12.017	VV	2967	55004		
198	12.027	12.017	12.057	VV	2554	48285		
199	12.074	12.057	12.087	VV	4407	57246		
200	12.092	12.087	12.109	VV	3022	30405		
201	12.127	12.109	12.142	VV	2940	45697	0.66%	0.133%
202	12.176	12.142	12.196	VV	16820	264607	3.84%	0.771%
203	12.212	12.196	12.229	VV	6777	110923	1.61%	0.323%
204	12.241	12.229	12.251	VV	5567	64546	0.94%	0.188%
205	12.257	12.251	12.270	VV	5126	52290	0.76%	0.152%
206	12.289	12.270	12.366	VV	23308	390031	5.66%	1.136%
207	12.391	12.366	12.409	VV	2023	29508	0.43%	0.086%
208	12.432	12.409	12.452	VV	6784	98973	1.44%	0.288%
209	12.457	12.452	12.467	VV	2571	21556	0.31%	0.063%
210	12.481	12.467	12.502	VV	3278	48283	0.70%	0.141%
211	12.535	12.502	12.557	VV	3421	75193	1.09%	0.219%
212	12.581	12.557	12.601	VV	29468	341548	4.96%	0.995%
213	12.621	12.601	12.669	VV	51955	640549	9.30%	1.866%
214	12.695	12.669	12.725	VV	64454	772098	11.21%	2.249%
215	12.769	12.725	12.815	VV	2063	86189	1.25%	0.251%
216	12.820	12.815	12.839	VV	988	11198	0.16%	0.033%
217	12.842	12.839	12.846	VV	733	2858	0.04%	0.008%
218	12.871	12.846	12.904	VV	3261	75533	1.10%	0.220%
219	12.922	12.904	12.955	VV	6096	97453	1.41%	0.284%
220	12.982	12.955	12.995	VV	3019	47701	0.69%	0.139%
221	13.009	12.995	13.027	VV	3262	53123	0.77%	0.155%
222	13.048	13.027	13.080	VV	5365	112124	1.63%	0.327%
223	13.097	13.080	13.127	VV	4377	77265	1.12%	0.225%
224	13.176	13.127	13.227	VV	12051	292654	4.25%	0.853%
225	13.249	13.227	13.263	VV	2908	46201	0.67%	0.135%
226	13.283	13.263	13.303	VV	9879	133245	1.93%	0.388%
227	13.319	13.303	13.341	VV	7621	105209	1.53%	0.307%
228	13.350	13.341	13.372	VV	2595	37114	0.54%	0.108%
229	13.403	13.372	13.423	VV	5809	101187	1.47%	0.295%
230	13.446	13.423	13.468	VV	9287	145727	2.12%	0.425%
231	13.488	13.468	13.517	VV	6279	103506	1.50%	0.302%
232	13.536	13.517	13.592	VV	2085	58076	0.84%	0.169%
233	13.629	13.592	13.645	VV	1188	26475	0.38%	0.077%
234	13.676	13.645	13.705	VV	1267	36763	0.53%	0.107%
235	13.716	13.705	13.727	VV	1059	13193	0.19%	0.038%
236	13.731	13.727	13.748	VV	1021	10839	0.16%	0.032%
237	13.765	13.748	13.775	VV	1613	21506	0.31%	0.063%
238	13.789	13.775	13.805	VV	1520	21384	0.31%	0.062%
239	13.819	13.805	13.824	VV	1023	10097	0.15%	0.029%
240	13.845	13.824	13.850	VV	1766	21541	0.31%	0.063%
241	13.879	13.850	13.939	VV	4792	158348	2.30%	0.461%
242	14.008	13.939	14.030	VV	4351	154409	2.24%	0.450%
243	14.041	14.030	14.060	VV	2124	31083	0.45%	0.091%
244	14.102	14.060	14.121	VV	3830	101346	1.47%	0.295%
245	14.144	14.121	14.168	VV	5769	104511	1.52%	0.304%
246	14.178	14.168	14.199	VV	2339	38653	0.56%	0.113%

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247	14.202	14.199	14.246	VV	2079	47508	0.69%	0.138%
248	14.272	14.246	14.290	VV	2381	47168		
249	14.305	14.290	14.327	VV	1959	35544		
250	14.343	14.327	14.372	VV	1524	32816		
251	14.415	14.372	14.435	VV	2864	57170		
252	14.455	14.435	14.475	VV	12832	160630		
253	14.495	14.475	14.529	VV	14482	233721	3.39%	0.681%
254	14.545	14.529	14.570	VV	2688	48524	0.70%	0.141%
255	14.587	14.570	14.598	VV	2317	30944	0.45%	0.090%
256	14.612	14.598	14.645	VV	3511	67749	0.98%	0.197%
257	14.663	14.645	14.723	VV	3128	85730	1.24%	0.250%
258	14.766	14.723	14.799	VV	1955	64048	0.93%	0.187%
259	14.815	14.799	14.835	VV	1692	30818	0.45%	0.090%
260	14.839	14.835	14.851	VV	1492	11289	0.16%	0.033%
261	14.857	14.851	14.862	VV	1153	6637	0.10%	0.019%
262	14.874	14.862	14.879	VV	1228	10732	0.16%	0.031%
263	14.920	14.879	14.994	VV	10750	253764	3.68%	0.739%
264	14.999	14.994	15.008	VV	1232	9215	0.13%	0.027%
265	15.027	15.008	15.032	VV	1304	16603	0.24%	0.048%
266	15.045	15.032	15.051	VV	1935	18478	0.27%	0.054%
267	15.077	15.051	15.102	VV	3706	77165	1.12%	0.225%
268	15.128	15.102	15.149	VV	9156	130916	1.90%	0.381%
269	15.165	15.149	15.195	VV	4430	79157	1.15%	0.231%
270	15.206	15.195	15.225	VV	2617	41116	0.60%	0.120%
271	15.230	15.225	15.241	VV	2239	19313	0.28%	0.056%
272	15.265	15.241	15.273	VV	4088	62125	0.90%	0.181%
273	15.286	15.273	15.345	VV	4955	123114	1.79%	0.359%
274	15.359	15.345	15.365	VV	1451	16090	0.23%	0.047%
275	15.375	15.365	15.395	VV	1535	25895	0.38%	0.075%
276	15.400	15.395	15.404	VV	1280	6227	0.09%	0.018%
277	15.408	15.404	15.436	VV	1302	19036	0.28%	0.055%
278	15.461	15.436	15.468	VV	1668	23212	0.34%	0.068%
279	15.488	15.468	15.519	VV	3310	59029	0.86%	0.172%
280	15.527	15.519	15.534	VV	1197	10395	0.15%	0.030%
281	15.560	15.534	15.589	VV	1858	41016	0.60%	0.119%
282	15.595	15.589	15.602	VV	697	4304	0.06%	0.013%
283	15.622	15.602	15.673	VV	1062	24008	0.35%	0.070%
284	15.691	15.673	15.697	VV	575	6137	0.09%	0.018%
285	15.727	15.697	15.747	VV	2066	35811	0.52%	0.104%
286	15.767	15.747	15.787	VV	1427	22343	0.32%	0.065%
287	15.828	15.787	15.855	VV	2076	56927	0.83%	0.166%
288	15.886	15.855	15.902	VV	1678	36159	0.52%	0.105%
289	15.926	15.902	15.961	VV	3305	67991	0.99%	0.198%
290	15.975	15.961	15.980	VV	1188	11565	0.17%	0.034%
291	16.005	15.980	16.026	VV	11011	161351	2.34%	0.470%
292	16.037	16.026	16.085	VV	4835	76954	1.12%	0.224%
293	16.116	16.085	16.132	VV	7476	105843	1.54%	0.308%
294	16.137	16.132	16.170	VV	4116	55921	0.81%	0.163%
295	16.178	16.170	16.221	VV	1385	25702	0.37%	0.075%
296	16.238	16.221	16.265	VV	643	11839	0.17%	0.034%
297	16.294	16.265	16.299	VV	1249	14680	0.21%	0.043%
298	16.322	16.299	16.352	VV	8228	108746	1.58%	0.317%
299	16.382	16.352	16.454	VV	10440	186832	2.71%	0.544%

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300	16.497	16.454	16.522	VV	2625	68575	1.00%	0.200%
301	16.548	16.522	16.583	VV	2994	57244		
302	16.594	16.583	16.607	VV	1045	13602		
303	16.629	16.607	16.678	VV	2081	60964		
304	16.694	16.678	16.715	VV	986	17058		
305	16.753	16.715	16.795	VV	3271	94762		
306	16.805	16.795	16.832	VV	1808	26157	0.38%	0.076%
307	16.878	16.832	16.896	VV	2232	43870	0.64%	0.128%
308	16.910	16.896	16.932	VV	1778	29734	0.43%	0.087%
309	16.957	16.932	16.964	VV	1646	25944	0.38%	0.076%
310	16.968	16.964	16.992	VV	1567	19622	0.28%	0.057%
311	16.998	16.992	17.015	VV	765	8796	0.13%	0.026%
312	17.036	17.015	17.064	VV	2945	52681	0.76%	0.153%
313	17.074	17.064	17.125	VV	1643	33322	0.48%	0.097%
314	17.158	17.125	17.201	PV	1277	26561	0.39%	0.077%
315	17.235	17.210	17.242	VV	587	6811	0.10%	0.020%
316	17.248	17.242	17.267	VV	639	5719	0.08%	0.017%
317	17.272	17.267	17.277	VV	320	1556	0.02%	0.005%
318	17.282	17.277	17.295	VV	252	1614	0.02%	0.005%
319	17.353	17.295	17.369	VV	1555	39284	0.57%	0.114%
320	17.386	17.369	17.417	VV	2683	47813	0.69%	0.139%
321	17.429	17.417	17.448	VV	1115	15862	0.23%	0.046%
322	17.472	17.448	17.505	VV	3336	53547	0.78%	0.156%
323	17.529	17.505	17.542	VV	1103	15281	0.22%	0.045%
324	17.550	17.542	17.569	VV	839	10761	0.16%	0.031%
325	17.584	17.569	17.588	VV	1048	9538	0.14%	0.028%
326	17.593	17.588	17.642	VV	1036	14082	0.20%	0.041%
327	17.675	17.642	17.717	PV	2344	65896	0.96%	0.192%
328	17.751	17.717	17.778	VV	8742	175961	2.55%	0.513%
329	17.803	17.778	17.839	VV	4236	89635	1.30%	0.261%
330	17.845	17.839	17.864	VV	616	6370	0.09%	0.019%
331	17.889	17.864	17.906	VV	2541	38316	0.56%	0.112%
332	17.917	17.906	17.953	VV	2037	33951	0.49%	0.099%
333	17.968	17.953	17.976	VV	566	6166	0.09%	0.018%
334	18.000	17.976	18.034	VV	6103	95176	1.38%	0.277%
335	18.051	18.034	18.090	VV	892	15469	0.22%	0.045%
336	18.099	18.090	18.111	PV	210	1734	0.03%	0.005%
337	18.146	18.111	18.169	PV	3008	47867	0.69%	0.139%
338	18.194	18.169	18.235	VV	4579	84247	1.22%	0.245%

Sum of corrected areas: 34323160

Aromatic EPH 102324.M Fri Nov 01 01:41:04 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067578.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:45
Operator : YP/AJ
Sample : P4578-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-TOP-1

Integration File: autoint1.e
Quant Time: Nov 01 00:21:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.930	2587727	23.963 ug/ml
Spiked Amount 50.000		Recovery = 47.93%	
Target Compounds			

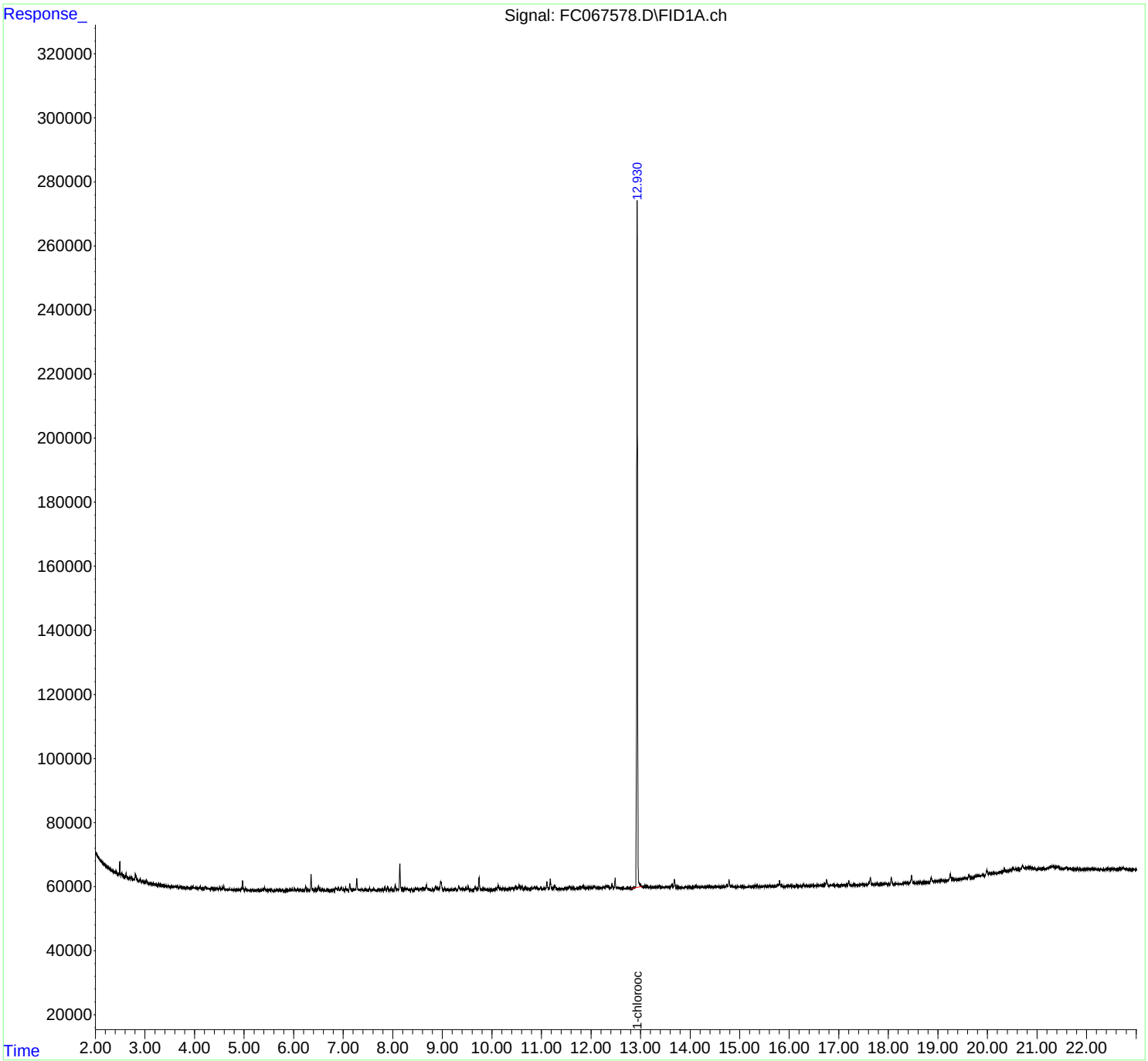
(f)=RT Delta > 1/2 Window (m)=manual int.

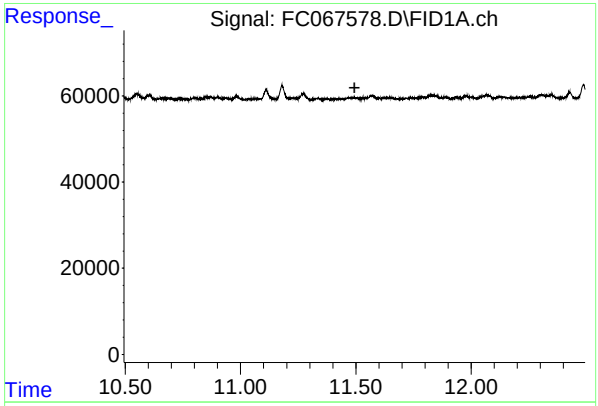
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067578.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:45
Operator : YP/AJ
Sample : P4578-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-TOP-1

Integration File: autoint1.e
Quant Time: Nov 01 00:21:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

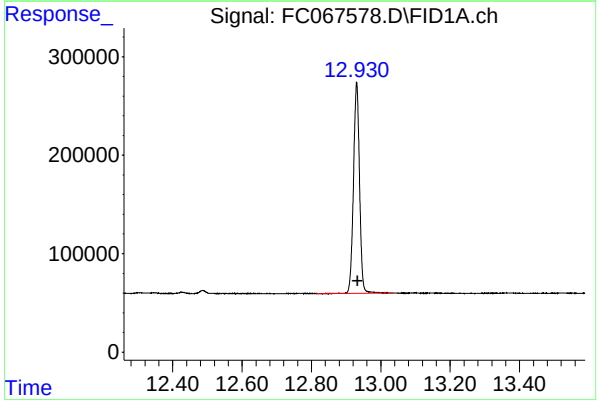




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-305-TOP-1



#12 1-chlorooctadecane (SURR)

R.T.: 12.930 min
Delta R.T.: -0.003 min
Response: 2587727
Conc: 23.96 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067578.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:45
Sample : P4578-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.276	3.221	3.358	BV	280	2576	0.10%	0.032%
2	3.373	3.358	3.528	PV	175	2697	0.10%	0.034%
3	3.549	3.528	3.583	PV	121	1700	0.06%	0.021%
4	3.597	3.583	3.631	VV	196	2086	0.08%	0.026%
5	3.646	3.631	3.691	VV	198	1769	0.07%	0.022%
6	3.715	3.691	3.729	PV	173	2070	0.08%	0.026%
7	3.736	3.729	3.758	VV	97	687	0.03%	0.009%
8	3.767	3.758	3.828	VV	173	2343	0.09%	0.029%
9	3.848	3.828	3.901	VV	179	3665	0.14%	0.046%
10	3.942	3.901	3.954	PV	442	5170	0.20%	0.065%
11	3.968	3.954	4.018	VV	613	7373	0.28%	0.092%
12	4.032	4.018	4.067	VV	176	2108	0.08%	0.026%
13	4.115	4.067	4.149	VV	634	10806	0.41%	0.135%
14	4.159	4.149	4.172	VV	144	1353	0.05%	0.017%
15	4.184	4.172	4.197	VV	95	969	0.04%	0.012%
16	4.217	4.197	4.240	PV	844	9361	0.35%	0.117%
17	4.253	4.240	4.317	VV	228	7315	0.28%	0.091%
18	4.340	4.317	4.367	VV	601	7633	0.29%	0.095%
19	4.376	4.367	4.424	VV	207	4028	0.15%	0.050%
20	4.441	4.424	4.476	VV	321	6777	0.26%	0.085%
21	4.506	4.476	4.526	VV	886	11361	0.43%	0.142%
22	4.562	4.526	4.576	VV	748	11013	0.42%	0.138%
23	4.592	4.576	4.614	VV	1291	13040	0.49%	0.163%
24	4.620	4.614	4.632	VV	194	1474	0.06%	0.018%
25	4.648	4.632	4.686	VV	187	2995	0.11%	0.037%
26	4.708	4.686	4.734	VV	228	3390	0.13%	0.042%
27	4.745	4.734	4.791	VV	124	4199	0.16%	0.052%
28	4.800	4.791	4.837	VV	189	3301	0.12%	0.041%
29	4.851	4.837	4.873	PV	159	1548	0.06%	0.019%
30	4.888	4.873	4.926	VV	225	3471	0.13%	0.043%
31	4.969	4.926	5.004	VV	2970	39326	1.49%	0.492%
32	5.027	5.004	5.045	VV	670	8375	0.32%	0.105%
33	5.054	5.045	5.116	VV	204	4782	0.18%	0.060%
34	5.127	5.116	5.150	VV	131	1796	0.07%	0.022%
35	5.164	5.150	5.176	VV	162	2120	0.08%	0.027%
36	5.199	5.176	5.234	VV	214	4911	0.19%	0.061%

rteres

37	5.260	5.234	5.310	VV	242	5679	0.21%	0.071%
38	5.337	5.310	5.356	VV	137	2445	0.09%	0.031%
39	5.374	5.356	5.398	VV	511	7731	0.29%	0.097%
40	5.413	5.398	5.447	VV	1036	13632	0.52%	0.170%
41	5.470	5.447	5.511	VV	290	7056	0.27%	0.088%
42	5.554	5.511	5.586	VV	498	10325	0.39%	0.129%
43	5.600	5.586	5.614	VV	165	1918	0.07%	0.024%
44	5.623	5.614	5.638	VV	198	1847	0.07%	0.023%
45	5.665	5.638	5.698	VV	413	9008	0.34%	0.113%
46	5.720	5.698	5.752	VV	253	6701	0.25%	0.084%
47	5.781	5.752	5.804	VV	263	5696	0.22%	0.071%
48	5.824	5.804	5.844	PV	349	3810	0.14%	0.048%
49	5.879	5.844	5.893	VV	377	6068	0.23%	0.076%
50	5.927	5.893	5.947	VV	562	11448	0.43%	0.143%
51	5.969	5.947	5.990	VV	636	8781	0.33%	0.110%
52	6.012	5.990	6.040	VV	969	13751	0.52%	0.172%
53	6.073	6.040	6.111	VV	703	14700	0.56%	0.184%
54	6.138	6.111	6.168	VV	382	8968	0.34%	0.112%
55	6.187	6.168	6.214	VV	337	5341	0.20%	0.067%
56	6.243	6.214	6.271	VV	1483	21665	0.82%	0.271%
57	6.280	6.271	6.323	VV	377	7757	0.29%	0.097%
58	6.353	6.323	6.413	VV	4993	63768	2.41%	0.797%
59	6.435	6.413	6.456	VV	616	9259	0.35%	0.116%
60	6.470	6.456	6.481	VV	484	4871	0.18%	0.061%
61	6.501	6.481	6.523	VV	1680	20338	0.77%	0.254%
62	6.536	6.523	6.554	VV	573	7080	0.27%	0.088%
63	6.572	6.554	6.600	VV	657	8774	0.33%	0.110%
64	6.628	6.600	6.648	VV	268	5311	0.20%	0.066%
65	6.672	6.648	6.698	VV	436	7899	0.30%	0.099%
66	6.709	6.698	6.718	VV	198	2273	0.09%	0.028%
67	6.746	6.718	6.769	VV	254	5142	0.19%	0.064%
68	6.795	6.769	6.824	PV	627	9707	0.37%	0.121%
69	6.847	6.824	6.884	VV	1025	22424	0.85%	0.280%
70	6.908	6.884	6.938	VV	897	17741	0.67%	0.222%
71	6.971	6.938	6.994	VV	1141	22901	0.87%	0.286%
72	7.011	6.994	7.031	VV	643	7930	0.30%	0.099%
73	7.053	7.031	7.094	VV	965	15963	0.60%	0.200%
74	7.134	7.094	7.170	VV	2325	32991	1.25%	0.412%
75	7.195	7.170	7.206	VV	480	7567	0.29%	0.095%
76	7.241	7.206	7.252	VV	664	12598	0.48%	0.157%
77	7.275	7.252	7.314	VV	3912	51324	1.94%	0.642%
78	7.336	7.314	7.350	VV	554	9255	0.35%	0.116%
79	7.365	7.350	7.384	VV	607	8046	0.30%	0.101%
80	7.398	7.384	7.417	VV	341	5931	0.22%	0.074%
81	7.445	7.417	7.470	VV	518	10319	0.39%	0.129%
82	7.490	7.470	7.508	VV	206	2999	0.11%	0.037%
83	7.534	7.508	7.574	PV	1000	14601	0.55%	0.182%
84	7.614	7.574	7.658	VV	481	14274	0.54%	0.178%
85	7.726	7.658	7.740	VV	554	14048	0.53%	0.176%
86	7.752	7.740	7.773	VV	520	6513	0.25%	0.081%
87	7.796	7.773	7.817	VV	681	8536	0.32%	0.107%
88	7.840	7.817	7.866	VV	1393	17441	0.66%	0.218%
89	7.896	7.866	7.919	VV	1409	18498	0.70%	0.231%

rteres

90	7.932	7.919	7.951	VV	313	3768	0.14%	0.047%
91	7.965	7.951	7.983	VV	916	9402	0.36%	0.118%
92	7.998	7.983	8.009	VV	267	3387	0.13%	0.042%
93	8.051	8.009	8.111	VV	1941	34879	1.32%	0.436%
94	8.144	8.111	8.212	VV	8335	112370	4.25%	1.405%
95	8.241	8.212	8.273	VV	673	17247	0.65%	0.216%
96	8.293	8.273	8.318	VV	720	11896	0.45%	0.149%
97	8.336	8.318	8.356	VV	432	6415	0.24%	0.080%
98	8.378	8.356	8.421	VV	505	8984	0.34%	0.112%
99	8.454	8.421	8.475	VV	484	10616	0.40%	0.133%
100	8.495	8.475	8.522	VV	679	13919	0.53%	0.174%
101	8.533	8.522	8.544	VV	427	5181	0.20%	0.065%
102	8.564	8.544	8.576	VV	517	8624	0.33%	0.108%
103	8.596	8.576	8.617	VV	819	14896	0.56%	0.186%
104	8.632	8.617	8.647	VV	708	9805	0.37%	0.123%
105	8.681	8.647	8.720	VV	1870	36769	1.39%	0.460%
106	8.734	8.720	8.778	VV	491	10137	0.38%	0.127%
107	8.797	8.778	8.814	PV	326	4628	0.18%	0.058%
108	8.833	8.814	8.843	VV	262	4221	0.16%	0.053%
109	8.863	8.843	8.880	VV	1329	17202	0.65%	0.215%
110	8.900	8.880	8.940	VV	1009	24896	0.94%	0.311%
111	8.968	8.940	9.031	VV	2674	62831	2.38%	0.785%
112	9.049	9.031	9.074	VV	715	9766	0.37%	0.122%
113	9.099	9.074	9.138	VV	417	6916	0.26%	0.086%
114	9.198	9.138	9.232	PV	317	11513	0.44%	0.144%
115	9.264	9.232	9.303	VV	617	13756	0.52%	0.172%
116	9.332	9.303	9.366	VV	1444	24967	0.94%	0.312%
117	9.383	9.366	9.399	VV	509	7392	0.28%	0.092%
118	9.422	9.399	9.444	VV	463	9039	0.34%	0.113%
119	9.470	9.444	9.504	VV	861	15610	0.59%	0.195%
120	9.522	9.504	9.564	VV	1409	18882	0.71%	0.236%
121	9.577	9.564	9.595	VV	183	1852	0.07%	0.023%
122	9.614	9.595	9.634	PV	240	3058	0.12%	0.038%
123	9.662	9.634	9.721	VV	1262	23728	0.90%	0.297%
124	9.742	9.721	9.787	VV	3922	52964	2.00%	0.662%
125	9.817	9.787	9.901	VV	448	18218	0.69%	0.228%
126	9.912	9.901	9.936	VV	175	2505	0.09%	0.031%
127	9.948	9.936	9.977	VV	105	1081	0.04%	0.014%
128	9.988	9.977	9.997	VV	130	839	0.03%	0.010%
129	10.020	9.997	10.038	VV	331	4282	0.16%	0.054%
130	10.087	10.038	10.104	VV	370	11108	0.42%	0.139%
131	10.129	10.104	10.153	VV	1552	26406	1.00%	0.330%
132	10.170	10.153	10.191	VV	507	10018	0.38%	0.125%
133	10.217	10.191	10.251	VV	527	13311	0.50%	0.166%
134	10.270	10.251	10.301	VV	421	8182	0.31%	0.102%
135	10.339	10.301	10.350	VV	399	7096	0.27%	0.089%
136	10.377	10.350	10.392	VV	434	8937	0.34%	0.112%
137	10.414	10.392	10.442	VV	692	15269	0.58%	0.191%
138	10.480	10.442	10.511	VV	1118	26346	1.00%	0.329%
139	10.551	10.511	10.584	VV	1534	37001	1.40%	0.462%
140	10.603	10.584	10.628	VV	1207	20677	0.78%	0.258%
141	10.659	10.628	10.678	VV	503	11147	0.42%	0.139%

rteres

142	10.693	10.678	10.721	VV	449	8654	0.33%	0.108%
143	10.736	10.721	10.777	VV	342	8808	0.33%	0.110%
144	10.801	10.777	10.830	VV	608	12799	0.48%	0.160%
145	10.870	10.830	10.888	VV	830	19910	0.75%	0.249%
146	10.901	10.888	10.918	VV	726	10128	0.38%	0.127%
147	10.931	10.918	10.960	VV	441	8949	0.34%	0.112%
148	10.984	10.960	11.020	VV	941	15096	0.57%	0.189%
149	11.036	11.020	11.051	VV	218	3273	0.12%	0.041%
150	11.068	11.051	11.083	VV	347	5114	0.19%	0.064%
151	11.111	11.083	11.147	VV	2398	36019	1.36%	0.450%
152	11.180	11.147	11.213	VV	3335	48865	1.85%	0.611%
153	11.223	11.213	11.244	VV	387	6725	0.25%	0.084%
154	11.272	11.244	11.318	VV	1457	26390	1.00%	0.330%
155	11.337	11.318	11.358	VV	372	4532	0.17%	0.057%
156	11.378	11.358	11.391	VV	242	3112	0.12%	0.039%
157	11.485	11.391	11.518	VV	489	21054	0.80%	0.263%
158	11.568	11.518	11.607	VV	967	26916	1.02%	0.336%
159	11.644	11.607	11.704	VV	507	18580	0.70%	0.232%
160	11.743	11.704	11.764	VV	404	11420	0.43%	0.143%
161	11.786	11.764	11.799	VV	552	9403	0.36%	0.118%
162	11.827	11.799	11.873	VV	961	31421	1.19%	0.393%
163	11.888	11.873	11.911	VV	501	8562	0.32%	0.107%
164	11.937	11.911	11.949	VV	484	8308	0.31%	0.104%
165	11.978	11.949	12.028	VV	776	22615	0.86%	0.283%
166	12.069	12.028	12.103	VV	1013	29043	1.10%	0.363%
167	12.124	12.103	12.187	VV	554	20967	0.79%	0.262%
168	12.214	12.187	12.241	VV	415	11893	0.45%	0.149%
169	12.255	12.241	12.279	VV	723	12497	0.47%	0.156%
170	12.303	12.279	12.338	VV	1019	27826	1.05%	0.348%
171	12.348	12.338	12.388	VV	1047	17451	0.66%	0.218%
172	12.427	12.388	12.458	VV	1525	27001	1.02%	0.337%
173	12.487	12.458	12.564	VV	3406	56150	2.12%	0.702%
174	12.578	12.564	12.592	VV	311	4080	0.15%	0.051%
175	12.607	12.592	12.658	VV	351	8881	0.34%	0.111%
176	12.671	12.658	12.695	VV	157	2605	0.10%	0.033%
177	12.741	12.695	12.756	VV	381	7327	0.28%	0.092%
178	12.768	12.756	12.798	VV	394	6661	0.25%	0.083%
179	12.810	12.798	12.830	VV	227	2727	0.10%	0.034%
180	12.881	12.830	12.890	PV	450	10622	0.40%	0.133%
181	12.930	12.890	13.073	VV	215363	2643591	100.00%	33.042%
182	13.097	13.073	13.128	VV	838	20638	0.78%	0.258%
183	13.145	13.128	13.159	VV	667	10939	0.41%	0.137%
184	13.168	13.159	13.194	VV	518	9900	0.37%	0.124%
185	13.205	13.194	13.242	VV	504	11151	0.42%	0.139%
186	13.260	13.242	13.278	VV	394	6875	0.26%	0.086%
187	13.315	13.278	13.338	VV	548	15409	0.58%	0.193%
188	13.370	13.338	13.438	VV	659	26631	1.01%	0.333%
189	13.444	13.438	13.457	VV	377	3967	0.15%	0.050%
190	13.475	13.457	13.488	VV	367	6045	0.23%	0.076%
191	13.527	13.488	13.574	VV	565	22036	0.83%	0.275%
192	13.595	13.574	13.603	VV	484	6726	0.25%	0.084%
193	13.630	13.603	13.656	VV	1288	23496	0.89%	0.294%
194	13.683	13.656	13.728	VV	2746	46146	1.75%	0.577%

rteres

195	13.732	13.728	13.755	VV	428	5316	0.20%	0.066%
196	13.774	13.755	13.791	VV	370	5564	0.21%	0.070%
197	13.818	13.791	13.848	VV	293	6830	0.26%	0.085%
198	13.911	13.848	13.963	VV	429	17725	0.67%	0.222%
199	13.978	13.963	14.007	VV	314	6051	0.23%	0.076%
200	14.018	14.007	14.048	VV	295	5929	0.22%	0.074%
201	14.064	14.048	14.084	VV	303	5377	0.20%	0.067%
202	14.121	14.084	14.168	VV	815	21294	0.81%	0.266%
203	14.176	14.168	14.221	VV	298	8152	0.31%	0.102%
204	14.245	14.221	14.279	VV	534	11356	0.43%	0.142%
205	14.314	14.279	14.326	VV	375	7850	0.30%	0.098%
206	14.344	14.326	14.360	VV	377	7356	0.28%	0.092%
207	14.376	14.360	14.421	VV	403	11543	0.44%	0.144%
208	14.439	14.421	14.449	VV	359	5102	0.19%	0.064%
209	14.459	14.449	14.477	VV	305	4718	0.18%	0.059%
210	14.498	14.477	14.511	VV	347	6253	0.24%	0.078%
211	14.526	14.511	14.544	VV	383	6784	0.26%	0.085%
212	14.561	14.544	14.614	VV	385	14673	0.56%	0.183%
213	14.640	14.614	14.658	VV	346	7485	0.28%	0.094%
214	14.697	14.658	14.713	VV	378	10637	0.40%	0.133%
215	14.740	14.713	14.764	VV	1048	18123	0.69%	0.227%
216	14.784	14.764	14.831	VV	2478	40584	1.54%	0.507%
217	14.854	14.831	14.877	VV	377	8107	0.31%	0.101%
218	14.897	14.877	14.937	VV	341	7981	0.30%	0.100%
219	14.980	14.937	15.000	VV	336	7811	0.30%	0.098%
220	15.048	15.000	15.098	VV	404	12539	0.47%	0.157%
221	15.117	15.098	15.149	VV	184	3855	0.15%	0.048%
222	15.212	15.149	15.248	VV	375	10021	0.38%	0.125%
223	15.303	15.248	15.401	VV	603	22500	0.85%	0.281%
224	15.407	15.401	15.438	VV	190	3241	0.12%	0.041%
225	15.462	15.438	15.466	VV	145	2078	0.08%	0.026%
226	15.490	15.466	15.501	VV	254	3956	0.15%	0.049%
227	15.520	15.501	15.542	VV	290	5102	0.19%	0.064%
228	15.616	15.542	15.651	VV	383	16321	0.62%	0.204%
229	15.660	15.651	15.677	VV	320	4112	0.16%	0.051%
230	15.694	15.677	15.734	VV	258	6304	0.24%	0.079%
231	15.764	15.734	15.781	VV	755	11765	0.45%	0.147%
232	15.803	15.781	15.882	VV	1847	36399	1.38%	0.455%
233	15.902	15.882	15.927	VV	229	3301	0.12%	0.041%
234	15.979	15.927	16.025	VV	371	10294	0.39%	0.129%
235	16.040	16.025	16.051	VV	203	2693	0.10%	0.034%
236	16.058	16.051	16.068	VV	188	1402	0.05%	0.018%
237	16.094	16.068	16.114	PV	237	4480	0.17%	0.056%
238	16.121	16.114	16.131	VV	131	1497	0.06%	0.019%
239	16.145	16.131	16.199	VV	261	7208	0.27%	0.090%
240	16.249	16.199	16.261	VV	143	3307	0.13%	0.041%
241	16.286	16.261	16.316	VV	646	11848	0.45%	0.148%
242	16.327	16.316	16.398	VV	281	9174	0.35%	0.115%
243	16.453	16.398	16.481	VV	350	9537	0.36%	0.119%
244	16.485	16.481	16.492	VV	277	1632	0.06%	0.020%
245	16.509	16.492	16.536	VV	264	6467	0.24%	0.081%
246	16.550	16.536	16.561	VV	283	3173	0.12%	0.040%

rteres

247	16.594	16.561	16.638	VV	237	10414	0.39%	0.130%
248	16.653	16.638	16.693	VV	318	7616	0.29%	0.095%
249	16.717	16.693	16.731	VV	708	11214	0.42%	0.140%
250	16.751	16.731	16.822	VV	1836	37099	1.40%	0.464%
251	16.848	16.822	16.878	VV	227	6166	0.23%	0.077%
252	16.912	16.878	16.941	VV	261	7261	0.27%	0.091%
253	16.971	16.941	17.008	VV	256	7049	0.27%	0.088%
254	17.021	17.008	17.033	VV	207	1796	0.07%	0.022%
255	17.079	17.033	17.124	VV	308	10030	0.38%	0.125%
256	17.139	17.124	17.164	VV	210	3462	0.13%	0.043%
257	17.201	17.164	17.274	PV	1448	26208	0.99%	0.328%
258	17.309	17.274	17.381	PV	288	10893	0.41%	0.136%
259	17.443	17.381	17.464	VV	272	7998	0.30%	0.100%
260	17.481	17.464	17.513	VV	245	4313	0.16%	0.054%
261	17.532	17.513	17.559	VV	228	3648	0.14%	0.046%
262	17.636	17.559	17.673	VV	2410	48443	1.83%	0.605%
263	17.685	17.673	17.728	VV	248	5110	0.19%	0.064%
264	17.770	17.728	17.824	VV	349	12380	0.47%	0.155%
265	17.839	17.824	17.860	VV	136	1988	0.08%	0.025%
266	17.875	17.860	17.893	VV	135	2218	0.08%	0.028%
267	17.942	17.893	17.951	VV	226	6577	0.25%	0.082%
268	17.960	17.951	17.998	VV	194	3455	0.13%	0.043%
269	18.060	17.998	18.111	VV	2172	36051	1.36%	0.451%
270	18.131	18.111	18.162	VV	252	4570	0.17%	0.057%
271	18.181	18.162	18.199	VV	175	2249	0.09%	0.028%
272	18.330	18.199	18.365	PV	296	13533	0.51%	0.169%
273	18.374	18.365	18.410	VV	170	3582	0.14%	0.045%
274	18.468	18.410	18.549	VV	2489	50644	1.92%	0.633%
275	18.660	18.549	18.694	VV	232	11727	0.44%	0.147%
276	18.722	18.694	18.753	VV	182	4578	0.17%	0.057%
277	18.764	18.753	18.807	VV	195	3503	0.13%	0.044%
278	18.864	18.807	18.925	PV	1604	31313	1.18%	0.391%
279	18.956	18.925	18.990	VV	201	5298	0.20%	0.066%
280	19.043	18.990	19.061	VV	354	10483	0.40%	0.131%
281	19.111	19.061	19.138	VV	359	10617	0.40%	0.133%
282	19.188	19.138	19.203	VV	223	7191	0.27%	0.090%
283	19.249	19.203	19.288	VV	2071	45497	1.72%	0.569%
284	19.302	19.288	19.384	VV	442	17347	0.66%	0.217%
285	19.393	19.384	19.416	VV	222	3589	0.14%	0.045%
286	19.486	19.416	19.501	VV	407	14211	0.54%	0.178%
287	19.545	19.501	19.580	VV	462	18025	0.68%	0.225%
288	19.623	19.580	19.678	VV	1356	37465	1.42%	0.468%
289	19.819	19.678	19.824	VV	889	53809	2.04%	0.673%
290	19.890	19.824	19.940	VV	1007	61086	2.31%	0.764%
291	19.987	19.940	20.024	VV	2403	73475	2.78%	0.918%
292	20.051	20.024	20.068	VV	1382	32980	1.25%	0.412%
293	20.080	20.068	20.091	VV	1195	17040	0.64%	0.213%
294	20.130	20.091	20.148	VV	1349	41972	1.59%	0.525%
295	20.158	20.148	20.191	VV	1237	31508	1.19%	0.394%
296	20.342	20.191	20.393	VV	2157	186560	7.06%	2.332%
297	20.439	20.393	20.447	VV	1768	53061	2.01%	0.663%
298	20.518	20.447	20.548	VV	2257	117274	4.44%	1.466%
299	20.575	20.548	20.588	VV	2018	46679	1.77%	0.583%

rteres

300	20.611	20.588	20.651	VV	1881	69191	2.62%	0.865%
301	20.710	20.651	20.744	VV	2752	123890	4.69%	1.549%
302	20.771	20.744	20.779	VV	2105	43343	1.64%	0.542%
303	20.794	20.779	20.810	VV	2162	39031	1.48%	0.488%
304	20.825	20.810	20.835	VV	2108	30308	1.15%	0.379%
305	20.845	20.835	20.858	VV	2153	28278	1.07%	0.353%
306	20.861	20.858	21.009	VV	2132	155849	5.90%	1.948%
307	21.034	21.009	21.093	VV	1616	73344	2.77%	0.917%
308	21.117	21.093	21.190	VV	1624	83238	3.15%	1.040%
309	21.296	21.190	21.306	VV	1903	107532	4.07%	1.344%
310	21.325	21.306	21.386	VV	1896	81951	3.10%	1.024%
311	21.415	21.386	21.516	VV	1566	94840	3.59%	1.185%
312	21.583	21.516	21.632	VV	1225	65685	2.48%	0.821%
313	21.648	21.632	21.712	VV	845	31744	1.20%	0.397%
314	21.727	21.712	21.821	VV	609	27850	1.05%	0.348%
315	21.828	21.821	21.864	VV	347	7150	0.27%	0.089%
316	21.872	21.864	21.958	VV	225	7480	0.28%	0.093%
317	21.967	21.958	22.018	VV	133	1273	0.05%	0.016%
318	22.039	22.018	22.056	VV	149	2186	0.08%	0.027%
319	22.073	22.056	22.086	VV	114	1276	0.05%	0.016%

Sum of corrected areas: 8000608

Aliphatic EPH 102324.M Fri Nov 01 00:57:23 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048627.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 19:54
Operator : YP/AJ
Sample : P4578-04
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-305-TOP-1

Integration File: autoint1.e
Quant Time: Nov 01 01:03:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.372	8509675	56.066 ug/ml
Spiked Amount 50.000		Recovery = 112.13%	
6) S 2-Flurobiphenyl (SURR)	8.221	5606681	57.099 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 114.20%	
11) S ortho-Terphenyl (SURR)	11.256	4117839	24.174 ug/ml
Spiked Amount 50.000		Recovery = 48.35%	
Target Compounds			

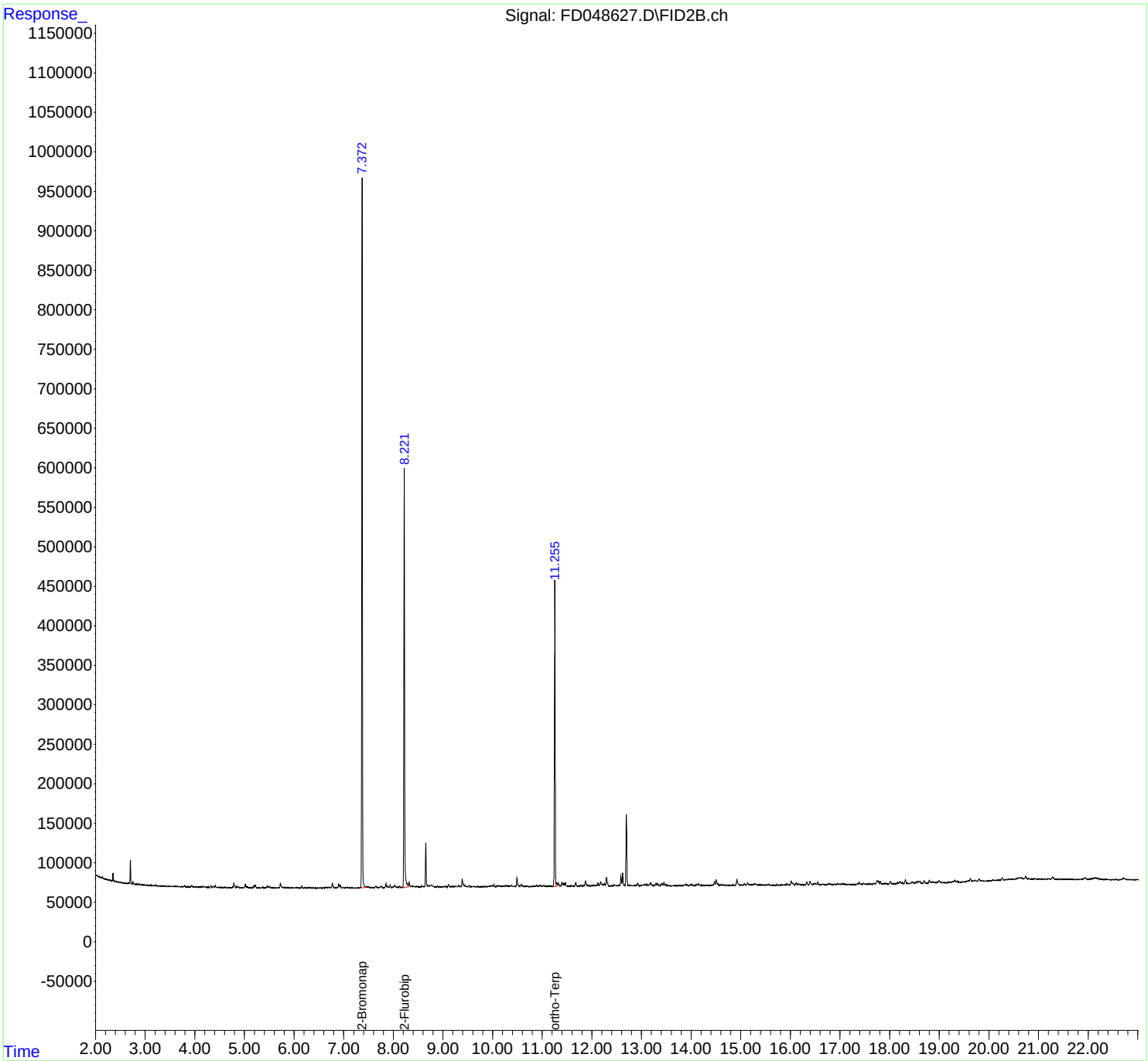
(f)=RT Delta > 1/2 Window (m)=manual int.

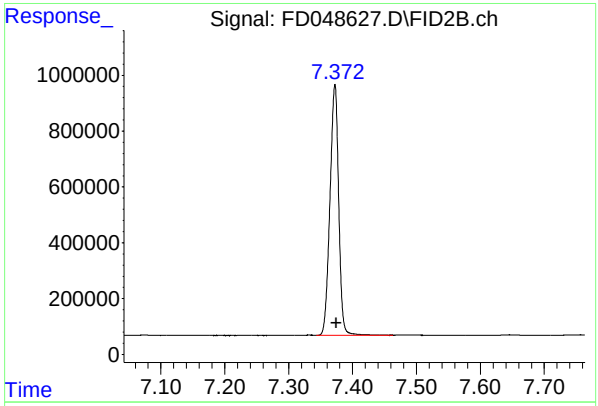
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048627.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 19:54
Operator : YP/AJ
Sample : P4578-04
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-305-TOP-1

Integration File: autoint1.e
Quant Time: Nov 01 01:03:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

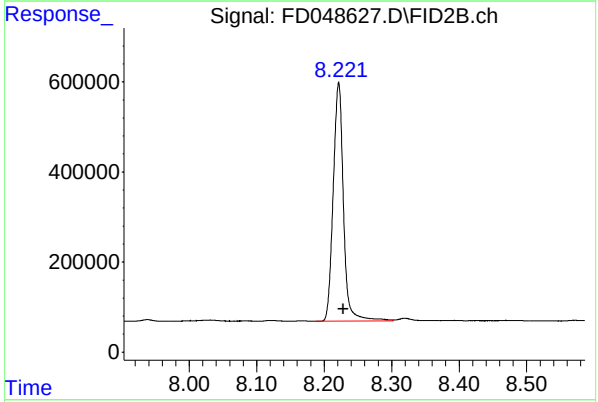




#4 2-Bromonaphthalene (SURR)

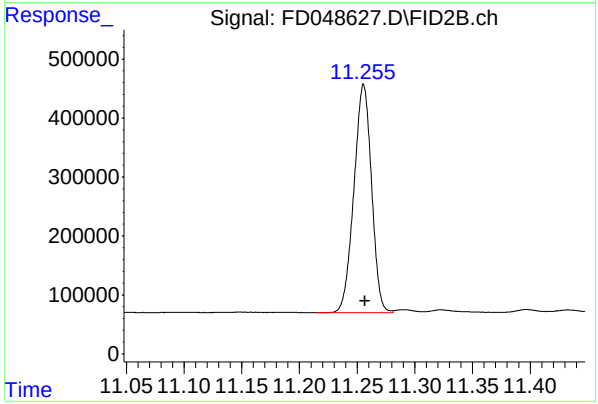
R.T.: 7.372 min
Delta R.T.: -0.003 min
Response: 8509675
Conc: 56.07 ug/ml

Instrument :
FID_D
ClientSampleId :
WB-305-TOP-1



#6 2-Flurobiphenyl (SURR)

R.T.: 8.221 min
Delta R.T.: -0.007 min
Response: 5606681
Conc: 57.10 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.256 min
Delta R.T.: -0.001 min
Response: 4117839
Conc: 24.17 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048627.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 19:54
Sample : P4578-04
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.787	4.741	4.826	BV	5625	78950	0.93%	0.349%
2	5.017	4.998	5.046	BV	4279	48265	0.57%	0.213%
3	5.218	5.200	5.268	VV	3687	52751	0.62%	0.233%
4	5.725	5.664	5.795	BV	5768	90684	1.07%	0.400%
5	6.773	6.736	6.854	VB	5941	85408	1.00%	0.377%
6	6.900	6.858	6.918	BV	4122	33321	0.39%	0.147%
7	7.372	7.343	7.463	PV	888303	8509675	100.00%	37.582%
8	7.852	7.814	7.869	PV	5092	59955	0.70%	0.265%
9	7.938	7.914	7.960	VV	3849	43219	0.51%	0.191%
10	8.221	8.188	8.302	PV	529403	5606681	65.89%	24.761%
11	8.320	8.302	8.371	VV	5785	82021	0.96%	0.362%
12	8.656	8.621	8.708	BV	54884	554034	6.51%	2.447%
13	9.390	9.370	9.498	VV	9674	175776	2.07%	0.776%
14	10.493	10.458	10.554	BV	10858	142829	1.68%	0.631%
15	11.256	11.214	11.281	BV	385121	4117839	48.39%	18.186%
16	11.290	11.281	11.307	VV	5102	57397	0.67%	0.253%
17	11.323	11.307	11.373	VV	4750	81780	0.96%	0.361%
18	11.397	11.373	11.415	VV	5253	69043	0.81%	0.305%
19	11.433	11.415	11.450	VV	4474	64494	0.76%	0.285%
20	11.467	11.450	11.534	VV	4929	76027	0.89%	0.336%
21	11.677	11.644	11.738	BB	4766	63979	0.75%	0.283%
22	11.873	11.851	11.964	VB	6835	115871	1.36%	0.512%
23	12.125	12.060	12.148	VV	4221	81219	0.95%	0.359%
24	12.181	12.148	12.232	VV	5675	131304	1.54%	0.580%
25	12.295	12.275	12.371	VV	11152	194273	2.28%	0.858%
26	12.586	12.564	12.604	PV	11907	139536	1.64%	0.616%
27	12.621	12.604	12.667	VV	15957	190980	2.24%	0.843%
28	12.696	12.667	12.731	VB	89339	1049430	12.33%	4.635%
29	12.924	12.900	12.958	VV	3459	48179	0.57%	0.213%
30	13.185	13.128	13.234	VV	3988	94762	1.11%	0.419%
31	13.451	13.428	13.475	VV	3814	45326	0.53%	0.200%
32	14.467	14.444	14.484	PV	4226	48569	0.57%	0.214%
33	14.504	14.484	14.533	VV	6192	83892	0.99%	0.370%
34	14.921	14.874	15.028	BV	7382	142952	1.68%	0.631%
35	16.015	15.961	16.037	BV	4001	34933	0.41%	0.154%
36	16.332	16.215	16.368	VV	3941	61256	0.72%	0.271%

rteres

37	16.396	16.368	16.458	PV	4298	75665	0.89%	0.334%
38	17.743	17.701	17.758	BV	1928	10899	0.13%	0.048%

Sum of corrected areas: 22643175

Aromatic EPH 102324.M Fri Nov 01 01:39:50 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067571.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 19:18
Operator : YP/AJ
Sample : P4578-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-BOT

Integration File: autoint1.e
Quant Time: Nov 01 00:19:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.933	5516704	51.086 ug/ml
Spiked Amount 50.000		Recovery = 102.17%	
Target Compounds			

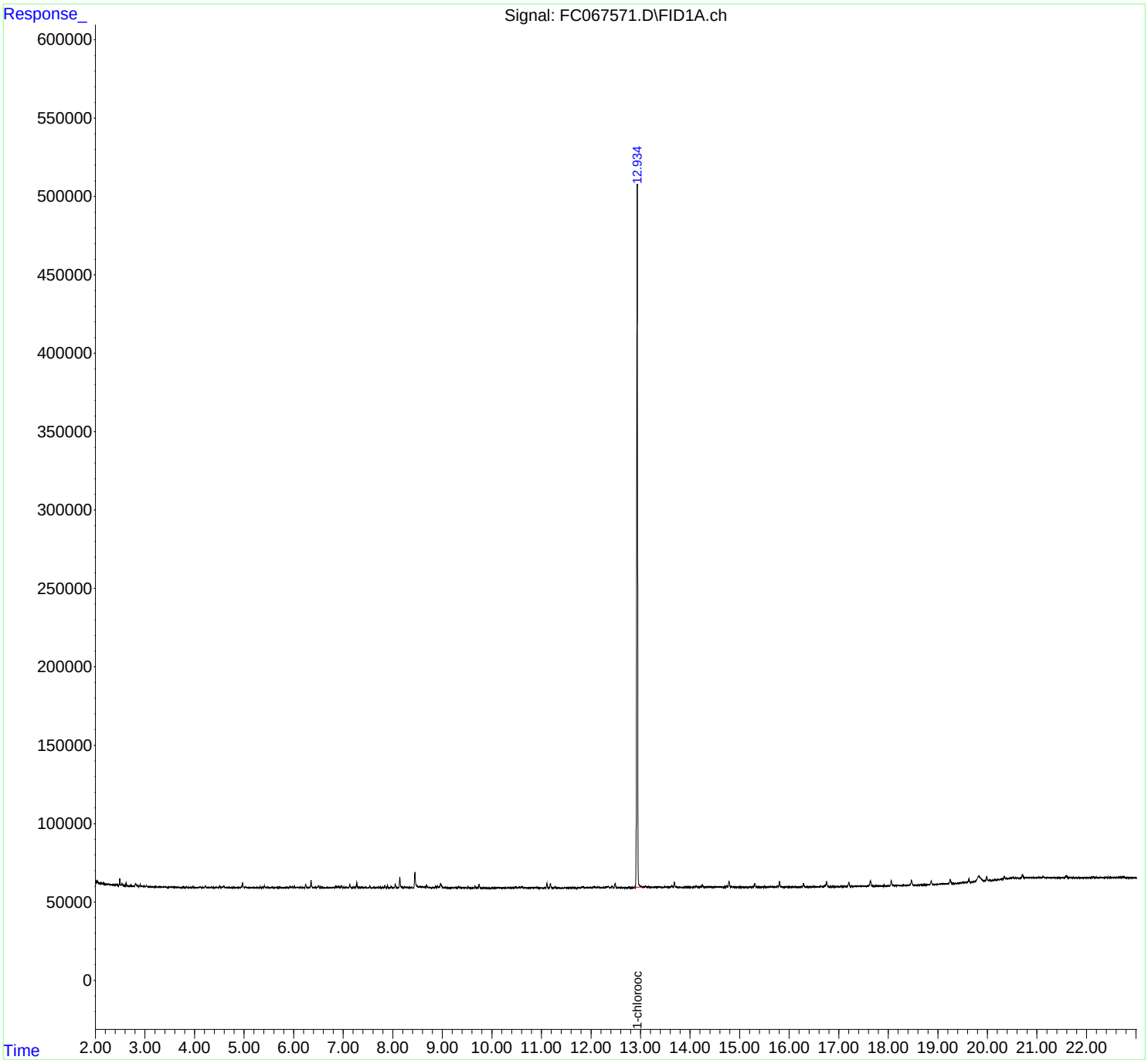
(f)=RT Delta > 1/2 Window (m)=manual int.

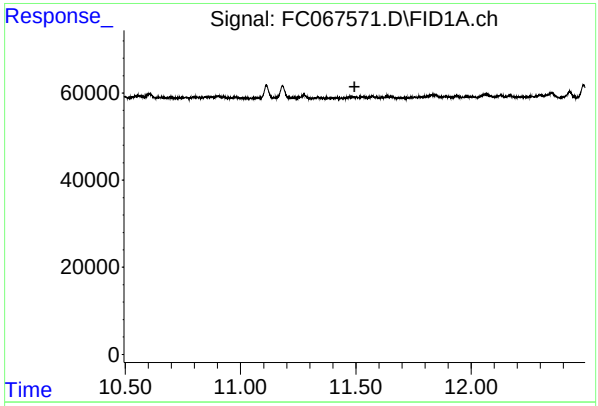
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067571.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 19:18
Operator : YP/AJ
Sample : P4578-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-BOT

Integration File: autoint1.e
Quant Time: Nov 01 00:19:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

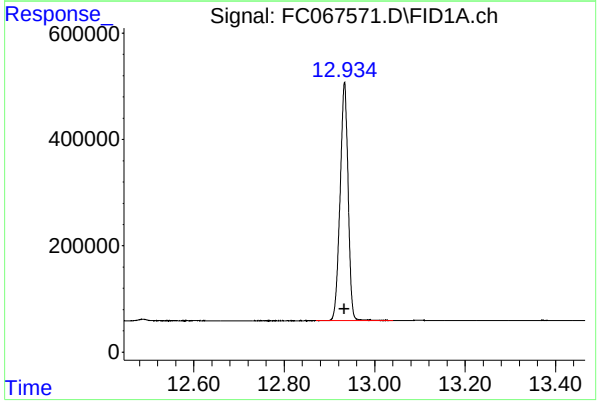




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-305-BOT



#12 1-chlorooctadecane (SURR)

R.T.: 12.933 min
Delta R.T.: 0.000 min
Response: 5516704
Conc: 51.09 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067571.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 19:18
Sample : P4578-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	6.353	6.307	6.394	BB	4645	49826	0.90%	0.802%
2	8.143	8.099	8.180	BB	6728	74339	1.35%	1.197%
3	8.447	8.342	8.522	BB	9465	130402	2.36%	2.099%
4	12.933	12.870	13.040	BB	449416	5516704	100.00%	88.812%
5	14.785	14.759	14.824	VB	3903	53354	0.97%	0.859%
6	15.804	15.717	15.844	BB	3446	51787	0.94%	0.834%
7	16.752	16.672	16.800	BB	3306	53160	0.96%	0.856%
8	17.637	17.575	17.679	BB	3411	56172	1.02%	0.904%
9	18.467	18.397	18.512	BB	3326	55882	1.01%	0.900%
10	19.821	19.744	19.925	BB	3436	170045	3.08%	2.738%

Sum of corrected areas: 6211672

Aliphatic EPH 102324.M Fri Nov 01 00:50:29 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048628.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 20:30
Operator : YP/AJ
Sample : P4578-05
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-305-BOT

Integration File: autoint1.e
Quant Time: Nov 01 01:03:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.373	7799979	51.390 ug/ml
Spiked Amount 50.000		Recovery = 102.78%	
6) S 2-Flurobiphenyl (SURR)	8.221	4862498	49.520 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 99.04%	
11) S ortho-Terphenyl (SURR)	11.257	5960099	34.989 ug/ml
Spiked Amount 50.000		Recovery = 69.98%	
Target Compounds			

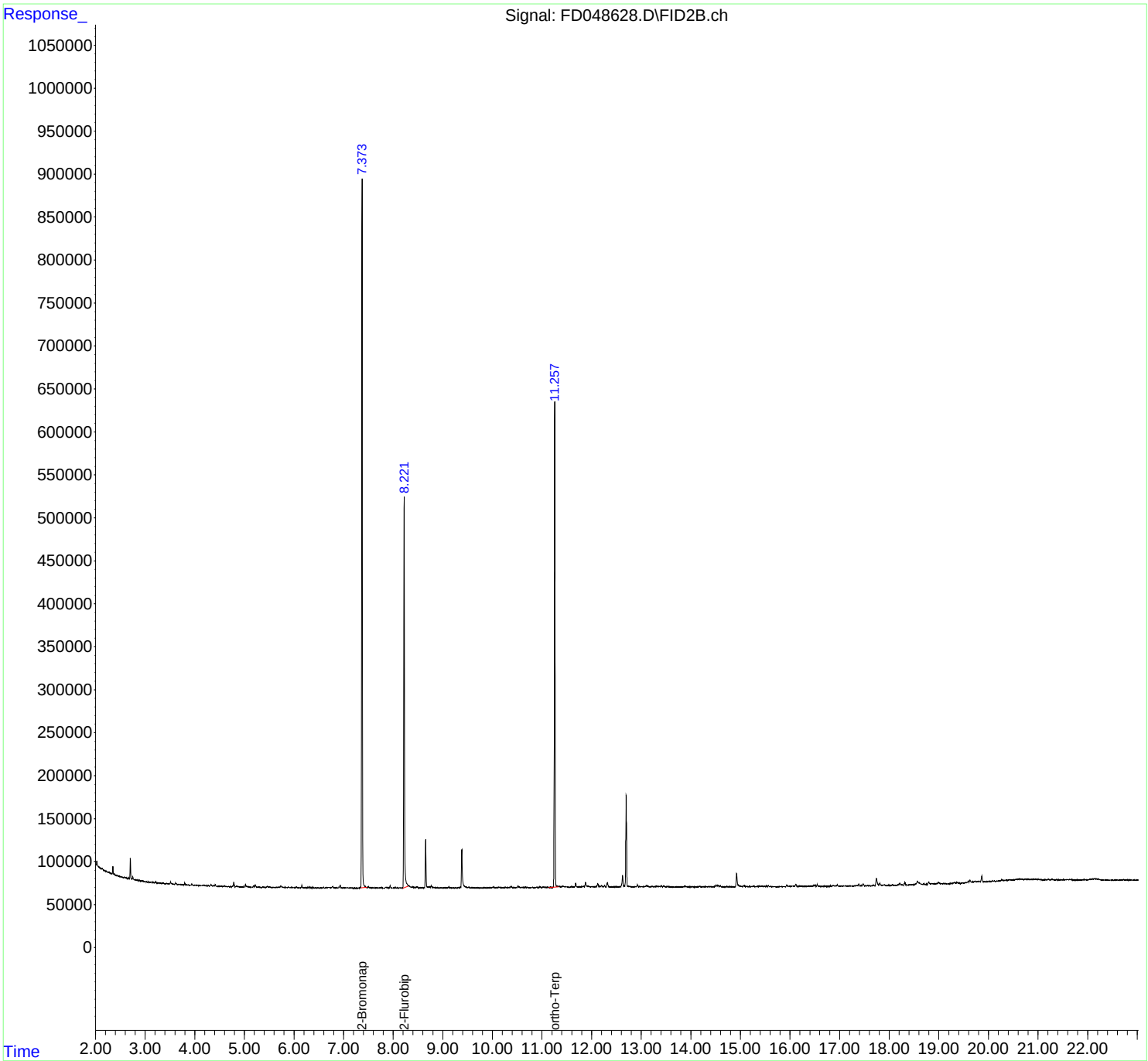
(f)=RT Delta > 1/2 Window (m)=manual int.

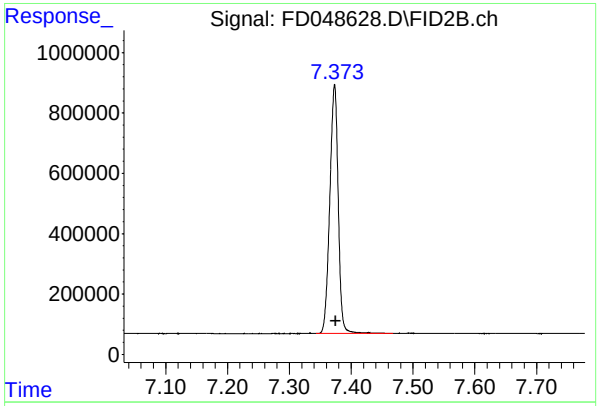
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048628.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 20:30
Operator : YP/AJ
Sample : P4578-05
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-305-BOT

Integration File: autoint1.e
Quant Time: Nov 01 01:03:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

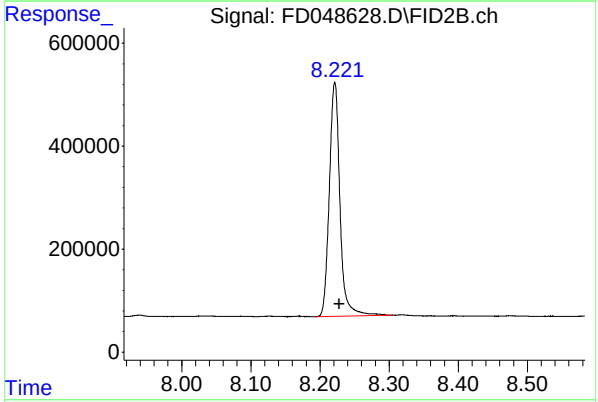




#4 2-Bromonaphthalene (SURR)

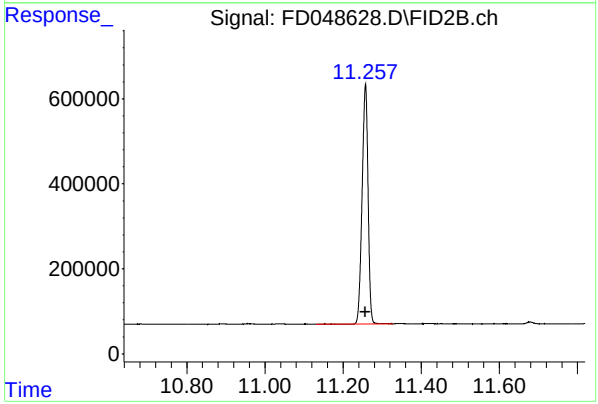
R.T.: 7.373 min
Delta R.T.: -0.002 min
Response: 7799979
Conc: 51.39 ug/ml

Instrument :
FID_D
ClientSampleId :
WB-305-BOT



#6 2-Flurobiphenyl (SURR)

R.T.: 8.221 min
Delta R.T.: -0.007 min
Response: 4862498
Conc: 49.52 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.257 min
Delta R.T.: 0.000 min
Response: 5960099
Conc: 34.99 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048628.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 20:30
Sample : P4578-05
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.787	4.711	4.828	BV	5104	62243	0.80%	0.283%
2	6.933	6.890	6.968	PV	3477	47188	0.60%	0.214%
3	7.373	7.343	7.468	PV	830948	7799979	100.00%	35.451%
4	8.221	8.194	8.306	PV	454499	4862498	62.34%	22.100%
5	8.656	8.618	8.713	BV	55941	555483	7.12%	2.525%
6	9.385	9.337	9.501	VV	44171	607218	7.78%	2.760%
7	11.257	11.131	11.328	PV	566377	5960099	76.41%	27.089%
8	11.678	11.648	11.738	BV	4546	60986	0.78%	0.277%
9	11.877	11.858	11.941	VV	5265	76588	0.98%	0.348%
10	12.126	12.051	12.149	BV	3728	52284	0.67%	0.238%
11	12.318	12.291	12.364	PB	5063	80179	1.03%	0.364%
12	12.622	12.554	12.647	BV	13296	178799	2.29%	0.813%
13	12.697	12.647	12.824	VB	106791	1260797	16.16%	5.730%
14	14.922	14.841	15.044	BV	15435	269862	3.46%	1.227%
15	17.741	17.701	17.787	BV	7751	127979	1.64%	0.582%

Sum of corrected areas: 22002183

Aromatic EPH 102324.M Fri Nov 01 01:38:40 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067579.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 01:21
Operator : YP/AJ
Sample : P4578-07
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-BOT-1

Integration File: autoint1.e
Quant Time: Nov 01 00:21:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.932	3849518	35.648 ug/ml
Spiked Amount 50.000		Recovery = 71.30%	
Target Compounds			

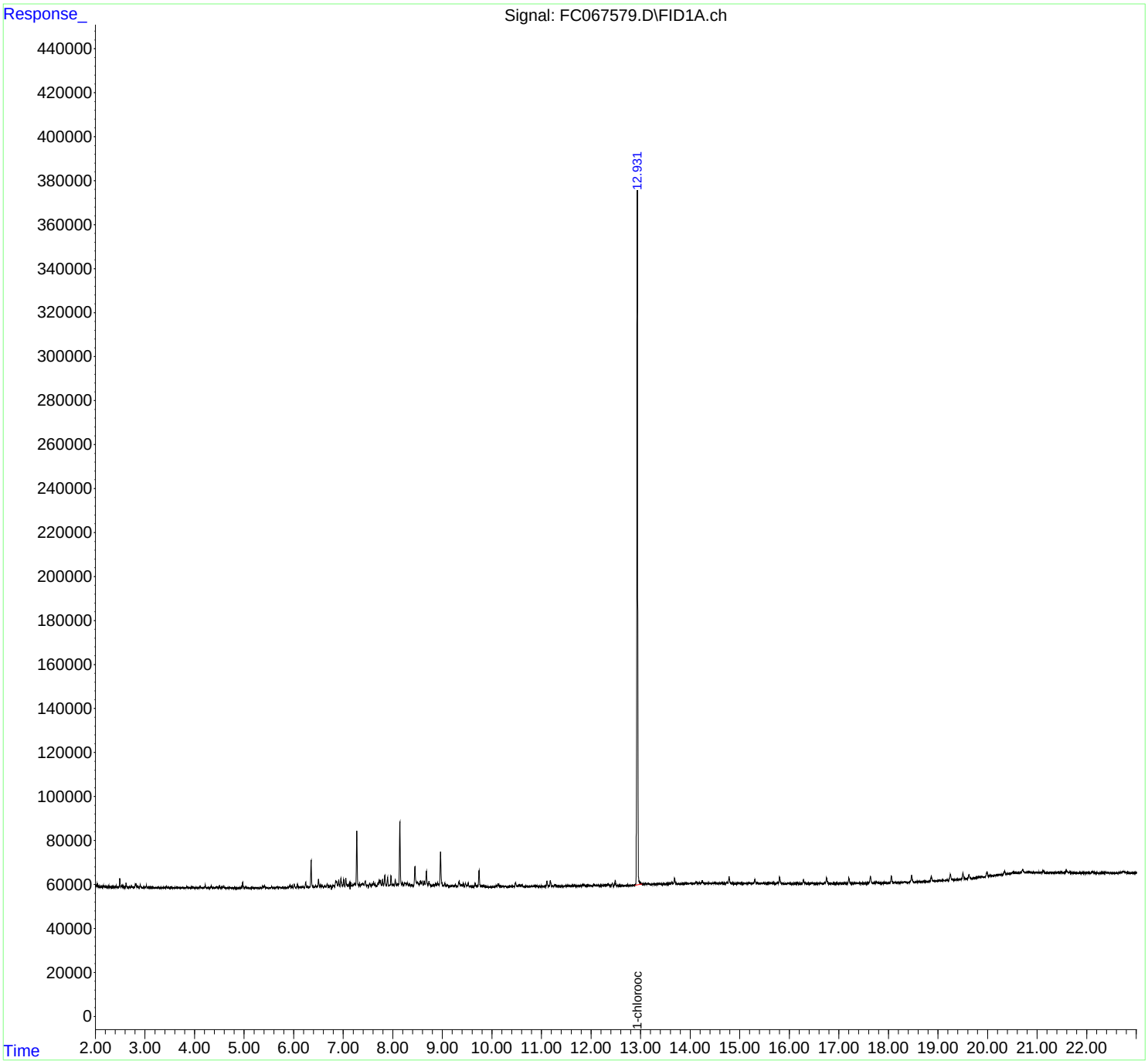
(f)=RT Delta > 1/2 Window (m)=manual int.

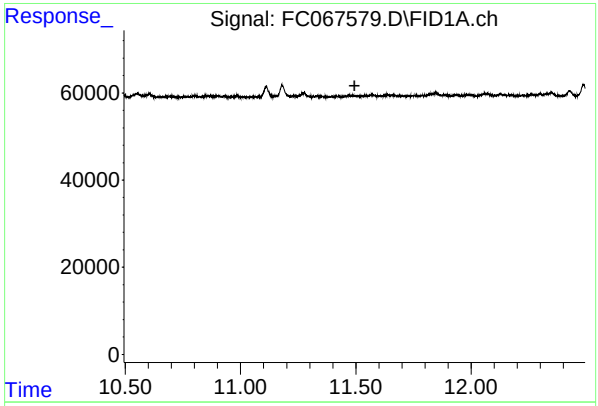
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067579.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 01:21
Operator : YP/AJ
Sample : P4578-07
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-BOT-1

Integration File: autoint1.e
Quant Time: Nov 01 00:21:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

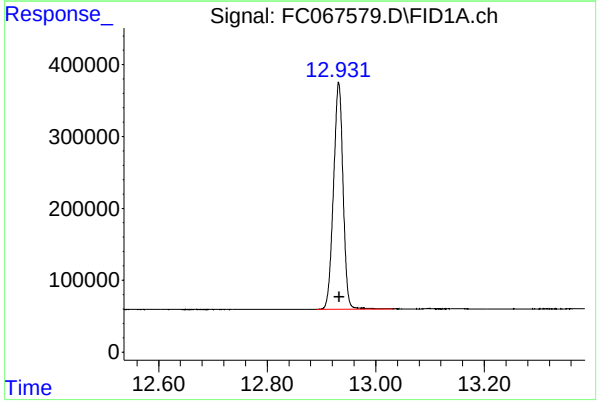




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-305-BOT-1



#12 1-chlorooctadecane (SURR)

R.T.: 12.932 min
Delta R.T.: -0.001 min
Response: 3849518
Conc: 35.65 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067579.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 01:21
Sample : P4578-07
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.277	3.194	3.304	PV	316	5906	0.15%	0.046%
2	3.310	3.304	3.354	VV	84	1486	0.04%	0.012%
3	3.374	3.354	3.414	VV	238	3193	0.08%	0.025%
4	3.428	3.414	3.526	PV	358	5946	0.15%	0.046%
5	3.553	3.526	3.588	VV	113	2870	0.07%	0.022%
6	3.599	3.588	3.634	VV	197	2855	0.07%	0.022%
7	3.654	3.634	3.747	VV	178	5748	0.15%	0.045%
8	3.767	3.747	3.817	PV	288	5424	0.14%	0.042%
9	3.841	3.817	3.888	VV	737	10146	0.26%	0.079%
10	3.891	3.888	3.910	VV	127	985	0.03%	0.008%
11	3.943	3.910	3.953	VV	284	4484	0.11%	0.035%
12	3.969	3.953	4.004	VV	684	8795	0.22%	0.069%
13	4.030	4.004	4.068	VV	232	4522	0.12%	0.035%
14	4.113	4.068	4.154	VV	719	14743	0.38%	0.115%
15	4.161	4.154	4.172	VV	184	1516	0.04%	0.012%
16	4.216	4.172	4.311	VV	1412	24319	0.62%	0.190%
17	4.340	4.311	4.362	VV	863	10864	0.28%	0.085%
18	4.377	4.362	4.402	VV	288	4755	0.12%	0.037%
19	4.449	4.402	4.472	VV	358	8793	0.22%	0.069%
20	4.506	4.472	4.543	VV	887	14479	0.37%	0.113%
21	4.562	4.543	4.576	VV	759	8860	0.23%	0.069%
22	4.592	4.576	4.634	VV	1108	13182	0.34%	0.103%
23	4.640	4.634	4.677	VV	148	2742	0.07%	0.021%
24	4.710	4.677	4.750	VV	226	5976	0.15%	0.047%
25	4.763	4.750	4.782	VV	209	2377	0.06%	0.019%
26	4.805	4.782	4.847	VV	142	2870	0.07%	0.022%
27	4.892	4.847	4.920	VV	221	3794	0.10%	0.030%
28	4.970	4.920	5.005	VV	2783	37688	0.96%	0.294%
29	5.026	5.005	5.044	VV	652	8481	0.22%	0.066%
30	5.054	5.044	5.066	VV	328	2988	0.08%	0.023%
31	5.079	5.066	5.124	VV	228	4338	0.11%	0.034%
32	5.132	5.124	5.139	PV	93	710	0.02%	0.006%
33	5.161	5.139	5.184	VV	212	3378	0.09%	0.026%
34	5.201	5.184	5.228	VV	176	3558	0.09%	0.028%
35	5.245	5.228	5.254	VV	304	3588	0.09%	0.028%
36	5.262	5.254	5.310	VV	365	5375	0.14%	0.042%

rteres

37	5.334	5.310	5.353	VV	168	3162	0.08%	0.025%
38	5.373	5.353	5.389	VV	1321	13921	0.36%	0.109%
39	5.412	5.389	5.454	VV	1197	20547	0.52%	0.160%
40	5.469	5.454	5.501	VV	309	3802	0.10%	0.030%
41	5.519	5.501	5.528	VV	126	1562	0.04%	0.012%
42	5.554	5.528	5.578	VV	701	9815	0.25%	0.077%
43	5.586	5.578	5.601	VV	191	2012	0.05%	0.016%
44	5.623	5.601	5.641	VV	195	3533	0.09%	0.028%
45	5.666	5.641	5.691	VV	586	11474	0.29%	0.090%
46	5.719	5.691	5.733	VV	402	6519	0.17%	0.051%
47	5.745	5.733	5.771	VV	296	5407	0.14%	0.042%
48	5.780	5.771	5.808	VV	351	4372	0.11%	0.034%
49	5.825	5.808	5.845	VV	383	5416	0.14%	0.042%
50	5.874	5.845	5.894	VV	429	8001	0.20%	0.062%
51	5.927	5.894	5.951	VV	1062	21922	0.56%	0.171%
52	5.969	5.951	5.990	VV	1264	16383	0.42%	0.128%
53	6.012	5.990	6.043	VV	1896	24680	0.63%	0.193%
54	6.074	6.043	6.121	VV	1626	26653	0.68%	0.208%
55	6.156	6.121	6.174	VV	502	12407	0.32%	0.097%
56	6.186	6.174	6.214	VV	744	10832	0.28%	0.085%
57	6.243	6.214	6.266	VV	2713	35939	0.92%	0.281%
58	6.282	6.266	6.313	VV	600	12351	0.32%	0.096%
59	6.352	6.313	6.424	VV	12462	155039	3.96%	1.210%
60	6.439	6.424	6.456	VV	870	12875	0.33%	0.101%
61	6.472	6.456	6.481	VV	844	10930	0.28%	0.085%
62	6.501	6.481	6.524	VV	3965	49853	1.27%	0.389%
63	6.538	6.524	6.556	VV	1205	17500	0.45%	0.137%
64	6.572	6.556	6.601	VV	1497	22018	0.56%	0.172%
65	6.627	6.601	6.650	VV	934	19157	0.49%	0.150%
66	6.675	6.650	6.698	VV	1729	30463	0.78%	0.238%
67	6.708	6.698	6.721	VV	822	8888	0.23%	0.069%
68	6.739	6.721	6.769	VV	909	19151	0.49%	0.150%
69	6.807	6.769	6.826	VV	1128	27755	0.71%	0.217%
70	6.850	6.826	6.888	VV	3247	75215	1.92%	0.587%
71	6.910	6.888	6.933	VV	3580	51960	1.33%	0.406%
72	6.954	6.933	6.990	VV	4504	73818	1.88%	0.576%
73	7.011	6.990	7.031	VV	3799	48033	1.23%	0.375%
74	7.053	7.031	7.091	VV	4335	68271	1.74%	0.533%
75	7.109	7.091	7.118	VV	1411	18081	0.46%	0.141%
76	7.132	7.118	7.169	VV	2374	48874	1.25%	0.382%
77	7.195	7.169	7.211	VV	1371	28184	0.72%	0.220%
78	7.225	7.211	7.250	VV	1780	35417	0.90%	0.276%
79	7.275	7.250	7.308	VV	25924	298253	7.62%	2.328%
80	7.316	7.308	7.350	VV	1350	31906	0.81%	0.249%
81	7.396	7.350	7.419	VV	1775	61351	1.57%	0.479%
82	7.445	7.419	7.474	VV	3000	60694	1.55%	0.474%
83	7.486	7.474	7.514	VV	1159	21060	0.54%	0.164%
84	7.534	7.514	7.566	VV	2094	38069	0.97%	0.297%
85	7.611	7.566	7.627	VV	2324	54734	1.40%	0.427%
86	7.638	7.627	7.671	VV	1661	30838	0.79%	0.241%
87	7.700	7.671	7.711	VV	2057	30836	0.79%	0.241%
88	7.728	7.711	7.741	VV	3578	46587	1.19%	0.364%
89	7.752	7.741	7.771	VV	3257	40255	1.03%	0.314%

rteres

90	7.794	7.771	7.815	VV	3784	54375	1.39%	0.424%
91	7.840	7.815	7.864	VV	5692	82279	2.10%	0.642%
92	7.895	7.864	7.919	VV	4791	71752	1.83%	0.560%
93	7.934	7.919	7.944	VV	1229	15907	0.41%	0.124%
94	7.965	7.944	7.988	VV	5489	72143	1.84%	0.563%
95	8.004	7.988	8.031	VV	1280	28610	0.73%	0.223%
96	8.051	8.031	8.073	VV	3675	51661	1.32%	0.403%
97	8.104	8.073	8.113	VV	1349	31155	0.80%	0.243%
98	8.143	8.113	8.175	VV	29656	359868	9.19%	2.809%
99	8.191	8.175	8.216	VV	2153	38729	0.99%	0.302%
100	8.239	8.216	8.273	VV	2221	57203	1.46%	0.447%
101	8.291	8.273	8.315	VV	2144	39526	1.01%	0.309%
102	8.338	8.315	8.361	VV	1449	31057	0.79%	0.242%
103	8.382	8.361	8.404	VV	1203	25553	0.65%	0.199%
104	8.447	8.404	8.484	VV	9430	161444	4.12%	1.260%
105	8.497	8.484	8.531	VV	2565	53509	1.37%	0.418%
106	8.560	8.531	8.577	VV	2734	57809	1.48%	0.451%
107	8.592	8.577	8.614	VV	2763	44541	1.14%	0.348%
108	8.633	8.614	8.651	VV	3050	44035	1.12%	0.344%
109	8.679	8.651	8.711	VV	7367	114818	2.93%	0.896%
110	8.731	8.711	8.776	VV	2768	53922	1.38%	0.421%
111	8.799	8.776	8.813	VV	1062	18483	0.47%	0.144%
112	8.827	8.813	8.844	VV	1125	17513	0.45%	0.137%
113	8.863	8.844	8.879	VV	1811	26539	0.68%	0.207%
114	8.902	8.879	8.931	VV	1742	41450	1.06%	0.324%
115	8.965	8.931	9.031	VV	16113	246750	6.30%	1.926%
116	9.050	9.031	9.071	VV	1823	29546	0.75%	0.231%
117	9.098	9.071	9.133	VV	1120	28750	0.73%	0.224%
118	9.154	9.133	9.177	VV	610	13338	0.34%	0.104%
119	9.200	9.177	9.230	VV	843	20204	0.52%	0.158%
120	9.264	9.230	9.307	VV	962	27439	0.70%	0.214%
121	9.337	9.307	9.368	VV	2643	52641	1.34%	0.411%
122	9.383	9.368	9.398	VV	1184	16571	0.42%	0.129%
123	9.423	9.398	9.446	VV	1351	25369	0.65%	0.198%
124	9.469	9.446	9.500	VV	1756	31658	0.81%	0.247%
125	9.522	9.500	9.563	VV	1707	28606	0.73%	0.223%
126	9.575	9.563	9.596	VV	297	4774	0.12%	0.037%
127	9.610	9.596	9.638	VV	300	5143	0.13%	0.040%
128	9.661	9.638	9.681	VV	1478	20497	0.52%	0.160%
129	9.697	9.681	9.716	VV	563	10661	0.27%	0.083%
130	9.741	9.716	9.788	VV	7604	99525	2.54%	0.777%
131	9.816	9.788	9.831	VV	650	13287	0.34%	0.104%
132	9.834	9.831	9.899	VV	565	11826	0.30%	0.092%
133	9.913	9.899	9.938	VV	208	2004	0.05%	0.016%
134	9.949	9.938	9.981	PV	145	1580	0.04%	0.012%
135	9.987	9.981	9.997	VV	64	421	0.01%	0.003%
136	10.018	9.997	10.041	VV	185	2549	0.07%	0.020%
137	10.088	10.041	10.099	VV	533	8800	0.22%	0.069%
138	10.129	10.099	10.154	VV	1379	23891	0.61%	0.187%
139	10.177	10.154	10.197	VV	520	8492	0.22%	0.066%
140	10.218	10.197	10.242	VV	516	7781	0.20%	0.061%
141	10.274	10.242	10.296	VV	385	6572	0.17%	0.051%

rteres

142	10.338	10.296	10.356	VV	239	3137	0.08%	0.024%
143	10.370	10.356	10.391	VV	222	3540	0.09%	0.028%
144	10.412	10.391	10.444	VV	316	7270	0.19%	0.057%
145	10.479	10.444	10.514	VV	1902	30879	0.79%	0.241%
146	10.552	10.514	10.580	VV	946	21668	0.55%	0.169%
147	10.604	10.580	10.637	VV	845	15543	0.40%	0.121%
148	10.678	10.637	10.748	VV	222	8897	0.23%	0.069%
149	10.768	10.748	10.781	VV	172	2591	0.07%	0.020%
150	10.797	10.781	10.834	VV	384	7280	0.19%	0.057%
151	10.851	10.834	10.888	VV	322	7954	0.20%	0.062%
152	10.900	10.888	10.918	VV	407	5115	0.13%	0.040%
153	10.928	10.918	10.944	VV	275	3195	0.08%	0.025%
154	10.984	10.944	11.043	VV	334	6474	0.17%	0.051%
155	11.074	11.043	11.084	VV	142	2187	0.06%	0.017%
156	11.111	11.084	11.150	VV	2517	35371	0.90%	0.276%
157	11.180	11.150	11.244	VV	2632	43700	1.12%	0.341%
158	11.274	11.244	11.317	VV	903	17050	0.44%	0.133%
159	11.331	11.317	11.388	VV	260	4524	0.12%	0.035%
160	11.417	11.388	11.444	PV	153	2835	0.07%	0.022%
161	11.472	11.444	11.484	VV	338	5194	0.13%	0.041%
162	11.488	11.484	11.521	VV	331	5177	0.13%	0.040%
163	11.537	11.521	11.551	VV	293	4567	0.12%	0.036%
164	11.571	11.551	11.600	VV	428	9071	0.23%	0.071%
165	11.634	11.600	11.717	VV	403	17550	0.45%	0.137%
166	11.845	11.717	11.874	VV	860	34302	0.88%	0.268%
167	11.888	11.874	11.917	VV	349	6958	0.18%	0.054%
168	11.939	11.917	11.958	VV	392	6621	0.17%	0.052%
169	11.984	11.958	12.024	VV	411	10605	0.27%	0.083%
170	12.063	12.024	12.107	VV	663	19294	0.49%	0.151%
171	12.125	12.107	12.157	VV	457	10360	0.26%	0.081%
172	12.168	12.157	12.198	VV	350	6002	0.15%	0.047%
173	12.261	12.198	12.279	VV	421	12497	0.32%	0.098%
174	12.299	12.279	12.311	VV	489	7327	0.19%	0.057%
175	12.349	12.311	12.381	VV	849	19676	0.50%	0.154%
176	12.427	12.381	12.455	VV	1216	19885	0.51%	0.155%
177	12.487	12.455	12.540	VV	2667	38978	1.00%	0.304%
178	12.555	12.540	12.574	VV	186	3451	0.09%	0.027%
179	12.600	12.574	12.653	VV	280	7977	0.20%	0.062%
180	12.666	12.653	12.672	PV	108	763	0.02%	0.006%
181	12.700	12.672	12.718	VV	128	2199	0.06%	0.017%
182	12.740	12.718	12.753	VV	291	3628	0.09%	0.028%
183	12.763	12.753	12.792	VV	260	4705	0.12%	0.037%
184	12.813	12.792	12.833	VV	254	4377	0.11%	0.034%
185	12.845	12.833	12.867	VV	321	5296	0.14%	0.041%
186	12.932	12.867	13.067	VV	315486	3916589	100.00%	30.576%
187	13.098	13.067	13.120	VV	1245	28507	0.73%	0.223%
188	13.145	13.120	13.188	VV	1079	34841	0.89%	0.272%
189	13.203	13.188	13.214	VV	605	9197	0.23%	0.072%
190	13.222	13.214	13.227	VV	581	4513	0.12%	0.035%
191	13.256	13.227	13.284	VV	771	22257	0.57%	0.174%
192	13.311	13.284	13.348	VV	798	27188	0.69%	0.212%
193	13.379	13.348	13.439	VV	923	41678	1.06%	0.325%
194	13.447	13.439	13.463	VV	665	9545	0.24%	0.075%

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195	13.485	13.463	13.501	VV	711	15249	0.39%	0.119%
196	13.529	13.501	13.577	VV	914	36178	0.92%	0.282%
197	13.632	13.577	13.655	VV	1537	46482	1.19%	0.363%
198	13.683	13.655	13.751	VV	3380	78968	2.02%	0.616%
199	13.760	13.751	13.787	VV	777	15563	0.40%	0.121%
200	13.820	13.787	13.853	VV	817	27972	0.71%	0.218%
201	13.865	13.853	13.870	VV	715	6784	0.17%	0.053%
202	13.917	13.870	13.955	VV	998	43363	1.11%	0.339%
203	13.992	13.955	14.032	VV	893	37260	0.95%	0.291%
204	14.068	14.032	14.086	VV	874	25539	0.65%	0.199%
205	14.119	14.086	14.163	VV	1518	49332	1.26%	0.385%
206	14.183	14.163	14.218	VV	991	28948	0.74%	0.226%
207	14.244	14.218	14.281	VV	2165	46641	1.19%	0.364%
208	14.289	14.281	14.295	VV	815	6441	0.16%	0.050%
209	14.344	14.295	14.354	VV	885	29133	0.74%	0.227%
210	14.379	14.354	14.437	VV	865	41175	1.05%	0.321%
211	14.447	14.437	14.458	VV	815	9718	0.25%	0.076%
212	14.495	14.458	14.516	VV	996	28763	0.73%	0.225%
213	14.532	14.516	14.543	VV	815	12111	0.31%	0.095%
214	14.553	14.543	14.574	VV	842	14414	0.37%	0.113%
215	14.633	14.574	14.691	VV	824	51801	1.32%	0.404%
216	14.704	14.691	14.721	VV	808	12844	0.33%	0.100%
217	14.740	14.721	14.758	VV	1265	22275	0.57%	0.174%
218	14.784	14.758	14.891	VV	3878	98254	2.51%	0.767%
219	14.898	14.891	14.948	VV	656	19372	0.49%	0.151%
220	14.981	14.948	15.048	VV	757	38821	0.99%	0.303%
221	15.054	15.048	15.078	VV	608	10303	0.26%	0.080%
222	15.121	15.078	15.142	VV	621	21954	0.56%	0.171%
223	15.213	15.142	15.264	VV	769	44668	1.14%	0.349%
224	15.302	15.264	15.337	VV	2245	49725	1.27%	0.388%
225	15.348	15.337	15.409	VV	775	25426	0.65%	0.198%
226	15.421	15.409	15.451	VV	579	12335	0.31%	0.096%
227	15.484	15.451	15.518	VV	633	20928	0.53%	0.163%
228	15.525	15.518	15.544	VV	613	8154	0.21%	0.064%
229	15.566	15.544	15.583	VV	519	11713	0.30%	0.091%
230	15.627	15.583	15.644	VV	749	22270	0.57%	0.174%
231	15.664	15.644	15.678	VV	683	11169	0.29%	0.087%
232	15.681	15.678	15.730	VV	658	14676	0.37%	0.115%
233	15.763	15.730	15.779	VV	926	18528	0.47%	0.145%
234	15.804	15.779	15.934	VV	3056	76765	1.96%	0.599%
235	15.988	15.934	16.043	VV	624	24184	0.62%	0.189%
236	16.056	16.043	16.074	VV	307	4944	0.13%	0.039%
237	16.118	16.074	16.138	VV	438	12785	0.33%	0.100%
238	16.164	16.138	16.241	VV	477	18609	0.48%	0.145%
239	16.285	16.241	16.393	VV	2061	45689	1.17%	0.357%
240	16.446	16.393	16.493	VV	429	14850	0.38%	0.116%
241	16.501	16.493	16.558	VV	371	8841	0.23%	0.069%
242	16.590	16.558	16.625	VV	391	11246	0.29%	0.088%
243	16.638	16.625	16.668	VV	392	6487	0.17%	0.051%
244	16.718	16.668	16.726	VV	603	10802	0.28%	0.084%
245	16.751	16.726	16.828	VV	2807	48859	1.25%	0.381%
246	16.852	16.828	16.894	VV	194	5100	0.13%	0.040%

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247	16.906	16.894	16.921	VV	181	1845	0.05%	0.014%
248	16.935	16.921	16.950	VV	189	1990	0.05%	0.016%
249	16.970	16.950	17.004	VV	204	4292	0.11%	0.034%
250	17.043	17.004	17.054	VV	199	3529	0.09%	0.028%
251	17.086	17.054	17.114	VV	246	4948	0.13%	0.039%
252	17.130	17.114	17.147	VV	191	2288	0.06%	0.018%
253	17.155	17.147	17.169	VV	133	1177	0.03%	0.009%
254	17.201	17.169	17.266	VV	2387	38159	0.97%	0.298%
255	17.308	17.266	17.321	PV	238	4708	0.12%	0.037%
256	17.336	17.321	17.438	VV	227	8892	0.23%	0.069%
257	17.454	17.438	17.463	VV	179	1705	0.04%	0.013%
258	17.483	17.463	17.509	VV	289	3816	0.10%	0.030%
259	17.536	17.509	17.558	VV	167	2785	0.07%	0.022%
260	17.637	17.558	17.706	PV	3153	63359	1.62%	0.495%
261	17.726	17.706	17.742	VV	301	4952	0.13%	0.039%
262	17.771	17.742	17.864	VV	480	16779	0.43%	0.131%
263	17.872	17.864	17.877	PV	32	244	0.01%	0.002%
264	17.919	17.877	17.941	VV	269	5212	0.13%	0.041%
265	17.952	17.941	17.999	VV	147	3811	0.10%	0.030%
266	18.059	17.999	18.110	VV	3109	52614	1.34%	0.411%
267	18.137	18.110	18.159	VV	344	5230	0.13%	0.041%
268	18.182	18.159	18.232	PV	168	4168	0.11%	0.033%
269	18.264	18.232	18.281	VV	120	2867	0.07%	0.022%
270	18.319	18.281	18.333	VV	330	5932	0.15%	0.046%
271	18.344	18.333	18.398	VV	386	5575	0.14%	0.044%
272	18.406	18.398	18.414	PV	101	715	0.02%	0.006%
273	18.467	18.414	18.539	VV	3447	62519	1.60%	0.488%
274	18.607	18.539	18.648	VV	256	9288	0.24%	0.073%
275	18.667	18.648	18.681	VV	206	2639	0.07%	0.021%
276	18.685	18.681	18.701	VV	131	1153	0.03%	0.009%
277	18.724	18.701	18.744	VV	279	4463	0.11%	0.035%
278	18.758	18.744	18.792	VV	256	4547	0.12%	0.035%
279	18.865	18.792	18.902	PV	2683	50086	1.28%	0.391%
280	18.923	18.902	18.944	VV	357	6972	0.18%	0.054%
281	19.041	18.944	19.084	VV	415	22023	0.56%	0.172%
282	19.105	19.084	19.140	VV	383	8731	0.22%	0.068%
283	19.191	19.140	19.206	VV	362	11291	0.29%	0.088%
284	19.250	19.206	19.350	VV	2930	73183	1.87%	0.571%
285	19.502	19.350	19.531	VV	3194	81276	2.08%	0.635%
286	19.547	19.531	19.578	VV	599	15238	0.39%	0.119%
287	19.624	19.578	19.675	VV	2292	57876	1.48%	0.452%
288	19.730	19.675	19.745	VV	643	23884	0.61%	0.186%
289	19.894	19.745	19.931	VV	1171	97912	2.50%	0.764%
290	19.939	19.931	19.944	VV	910	6730	0.17%	0.053%
291	19.988	19.944	20.021	VV	3186	81127	2.07%	0.633%
292	20.045	20.021	20.101	VV	1403	59895	1.53%	0.468%
293	20.258	20.101	20.275	VV	1512	139541	3.56%	1.089%
294	20.341	20.275	20.388	VV	2964	126515	3.23%	0.988%
295	20.414	20.388	20.428	VV	1741	40290	1.03%	0.315%
296	20.519	20.428	20.555	VV	2285	150889	3.85%	1.178%
297	20.565	20.555	20.607	VV	2097	61208	1.56%	0.478%
298	20.629	20.607	20.638	VV	1935	34757	0.89%	0.271%
299	20.710	20.638	20.758	VV	3240	165529	4.23%	1.292%

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300	20.794	20.758	20.854	VV	2019	112267	2.87%	0.876%
301	20.865	20.854	20.909	VV	1837	57818	1.48%	0.451%
302	20.916	20.909	20.941	VV	1725	30927	0.79%	0.241%
303	20.946	20.941	20.991	VV	1615	45369	1.16%	0.354%
304	21.037	20.991	21.071	VV	1623	72525	1.85%	0.566%
305	21.122	21.071	21.201	VV	2067	117105	2.99%	0.914%
306	21.240	21.201	21.288	VV	1176	57340	1.46%	0.448%
307	21.292	21.288	21.314	VV	1092	16333	0.42%	0.128%
308	21.332	21.314	21.345	VV	1083	19203	0.49%	0.150%
309	21.369	21.345	21.383	VV	1096	22863	0.58%	0.178%
310	21.415	21.383	21.451	VV	1107	41913	1.07%	0.327%
311	21.466	21.451	21.479	VV	972	15866	0.41%	0.124%
312	21.489	21.479	21.498	VV	981	10495	0.27%	0.082%
313	21.506	21.498	21.548	VV	934	25539	0.65%	0.199%
314	21.589	21.548	21.641	VV	1539	59835	1.53%	0.467%
315	21.660	21.641	21.684	VV	770	18069	0.46%	0.141%
316	21.753	21.734	21.801	VV	426	15590	0.40%	0.122%
317	21.820	21.801	21.848	VV	388	9149	0.23%	0.071%
318	21.864	21.848	21.923	VV	341	11771	0.30%	0.092%
319	21.934	21.923	21.943	VV	244	2323	0.06%	0.018%
320	21.978	21.943	21.987	VV	205	4714	0.12%	0.037%
321	21.998	21.987	22.028	VV	215	3732	0.10%	0.029%
322	22.061	22.028	22.074	VV	127	2107	0.05%	0.016%

Sum of corrected areas: 12809470

Aliphatic EPH 102324.M Fri Nov 01 00:56:49 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048632.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 22:56
Operator : YP/AJ
Sample : P4578-07
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-305-BOT-1

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 01 01:03:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.372	7769712	51.191 ug/ml
Spiked Amount 50.000		Recovery =	102.38%
6) S 2-Flurobiphenyl (SURR)	8.222	4979570	50.713 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	101.43%
11) S ortho-Terphenyl (SURR)	11.255	4579944	26.887 ug/mlm
Spiked Amount 50.000		Recovery =	53.77%
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

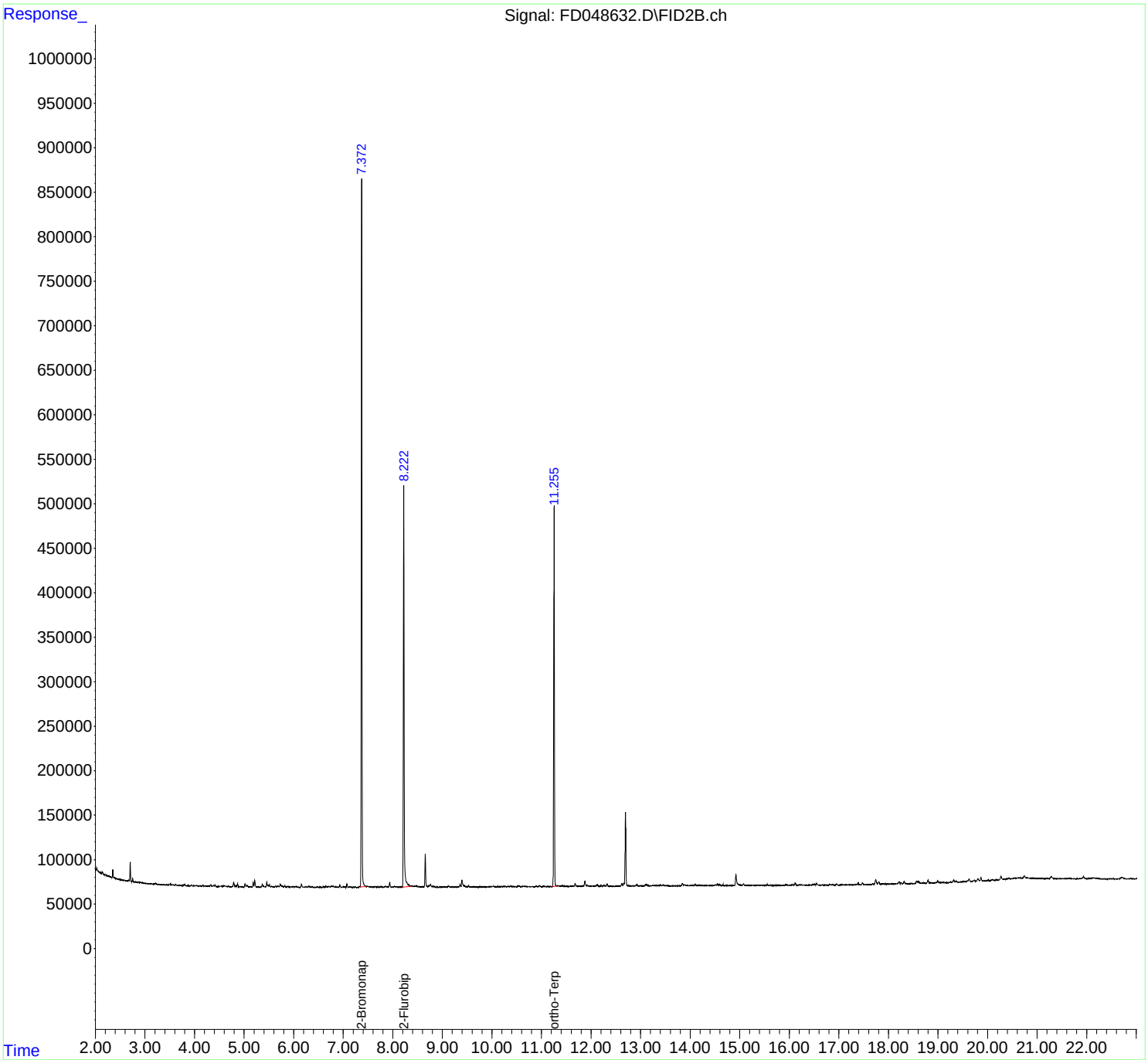
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048632.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 22:56
Operator : YP/AJ
Sample : P4578-07
Misc :
ALS Vial : 70 Sample Multiplier: 1

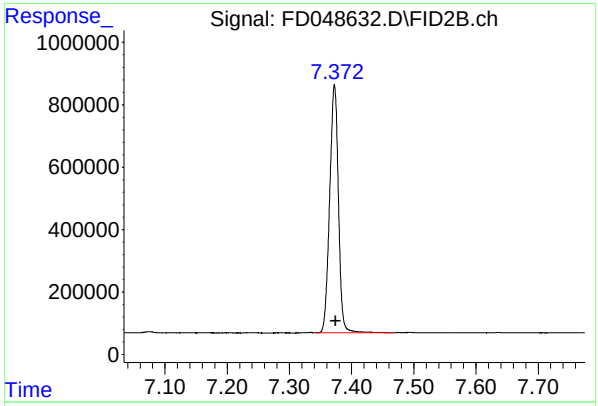
Integration File: autoint1.e
Quant Time: Nov 01 01:03:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
WB-305-BOT-1

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024





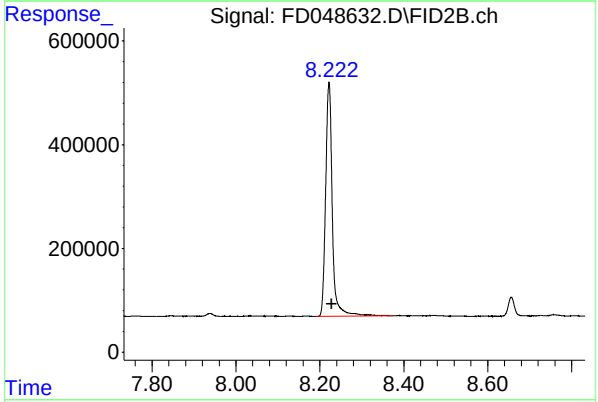
#4 2-Bromonaphthalene (SURR)

R.T.: 7.372 min
Delta R.T.: -0.002 min
Response: 7769712
Conc: 51.19 ug/ml

Instrument :
FID_D
ClientSampleId :
WB-305-BOT-1

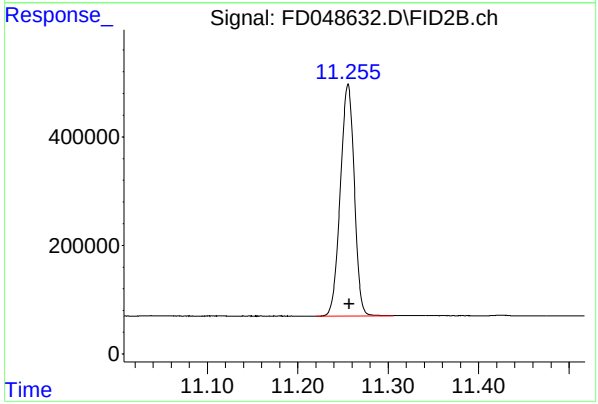
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



#6 2-Flurobiphenyl (SURR)

R.T.: 8.222 min
Delta R.T.: -0.006 min
Response: 4979570
Conc: 50.71 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.255 min
Delta R.T.: -0.001 min
Response: 4579944
Conc: 26.89 ug/ml m

12

Instrument :
FID_D
ClientSampleId :
WB-305-BOT-1

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10302
Data File : FD048632.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 22:56
Sample : P4578-07
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.789	4.728	4.826	BV	5203	79611	1.02%	0.401%
2	4.869	4.853	4.908	VV	3599	37274	0.48%	0.188%
3	5.018	4.992	5.042	PV	3708	46195	0.59%	0.233%
4	5.183	5.161	5.199	VV	5293	54362	0.70%	0.274%
5	5.215	5.199	5.266	VV	7440	91850	1.18%	0.463%
6	5.367	5.314	5.387	BV	3420	39363	0.51%	0.199%
7	5.458	5.414	5.497	PV	5205	64815	0.83%	0.327%
8	6.159	6.098	6.221	BB	3607	40292	0.52%	0.203%
9	7.075	7.031	7.118	BV	3882	41102	0.53%	0.207%
10	7.372	7.343	7.467	PV	784628	7769712	100.00%	39.184%
11	7.938	7.891	7.991	BB	5528	59257	0.76%	0.299%
12	8.222	8.191	8.374	PV	450106	4979570	64.09%	25.113%
13	8.656	8.601	8.701	BV	36340	364504	4.69%	1.838%
14	9.396	9.376	9.504	PB	7634	143372	1.85%	0.723%
15	11.255	11.074	11.331	BB	424221	4543965	58.48%	22.916%
16	11.876	11.853	11.941	PB	5491	80167	1.03%	0.404%
17	12.623	12.468	12.641	BV	3027	66134	0.85%	0.334%
18	12.661	12.641	12.670	VV	3487	40751	0.52%	0.206%
19	12.697	12.670	12.764	VB	82594	979976	12.61%	4.942%
20	14.922	14.878	15.044	BB	12187	229737	2.96%	1.159%
21	17.742	17.701	17.784	BV	4850	76809	0.99%	0.387%
			Sum of corrected areas:			19828819		

Aromatic EPH 102324.M Fri Nov 01 01:39:32 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067568.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 17:27
Operator : YP/AJ
Sample : PB164525BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164525BL

Integration File: autoint1.e
Quant Time: Nov 01 00:19:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12)	S 1-chlorooctadecane (S...	12.932	3824511	35.416 ug/ml
Spiked Amount	50.000	Recovery =	70.83%	
	Target Compounds			

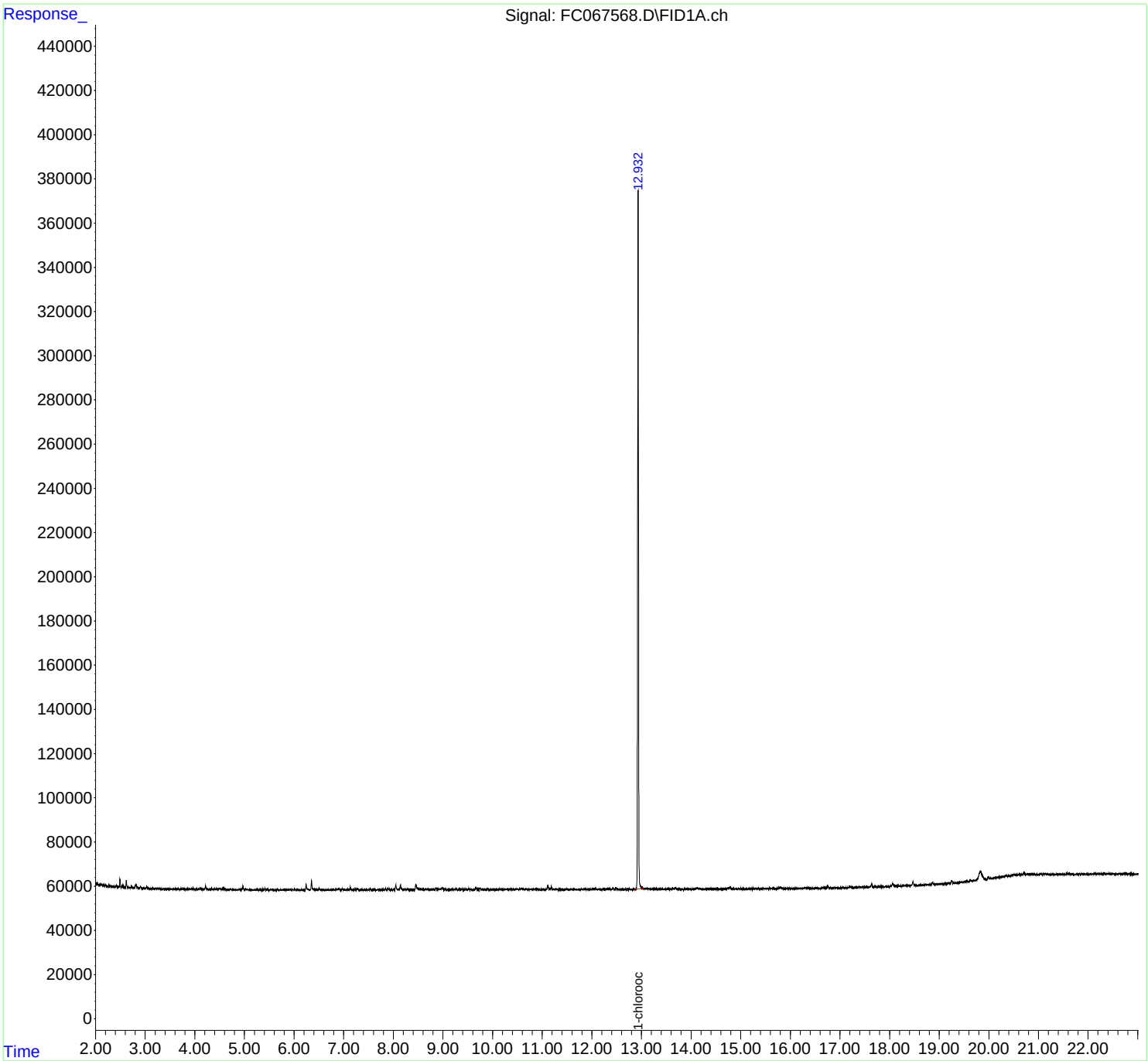
(f)=RT Delta > 1/2 Window (m)=manual int.

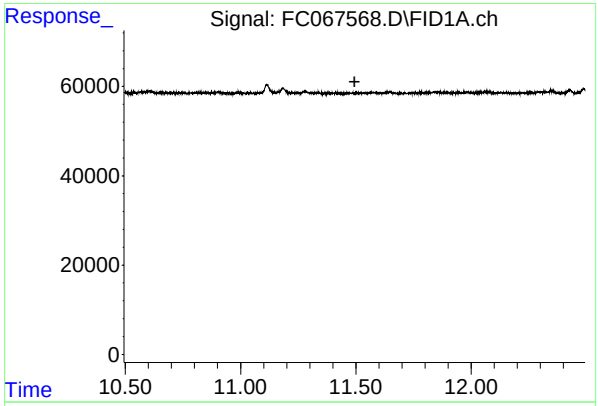
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067568.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 17:27
Operator : YP/AJ
Sample : PB164525BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164525BL

Integration File: autoint1.e
Quant Time: Nov 01 00:19:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

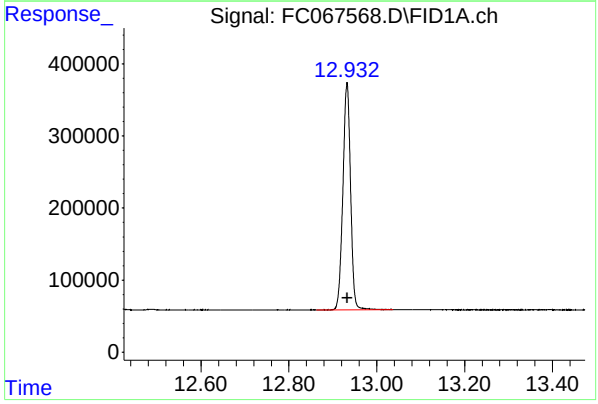




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB164525BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.932 min
Delta R.T.: 0.000 min
Response: 3824511
Conc: 35.42 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067568.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 17:27
Sample : PB164525BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.932	12.862	13.037	BB	314525	3824511	100.00%	100.000%
			Sum of corrected areas:			3824511		

Aliphatic EPH 102324.M Fri Nov 01 00:48:32 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048623.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 17:27
Operator : YP/AJ
Sample : PB164525BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164525BL

Integration File: autoint1.e
Quant Time: Nov 01 01:02:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.372	8064149	53.131 ug/ml
Spiked Amount 50.000		Recovery = 106.26%	
6) S 2-Flurobiphenyl (SURR)	8.222	5221900	53.181 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 106.36%	
11) S ortho-Terphenyl (SURR)	11.258	7445393	43.709 ug/ml
Spiked Amount 50.000		Recovery = 87.42%	
Target Compounds			

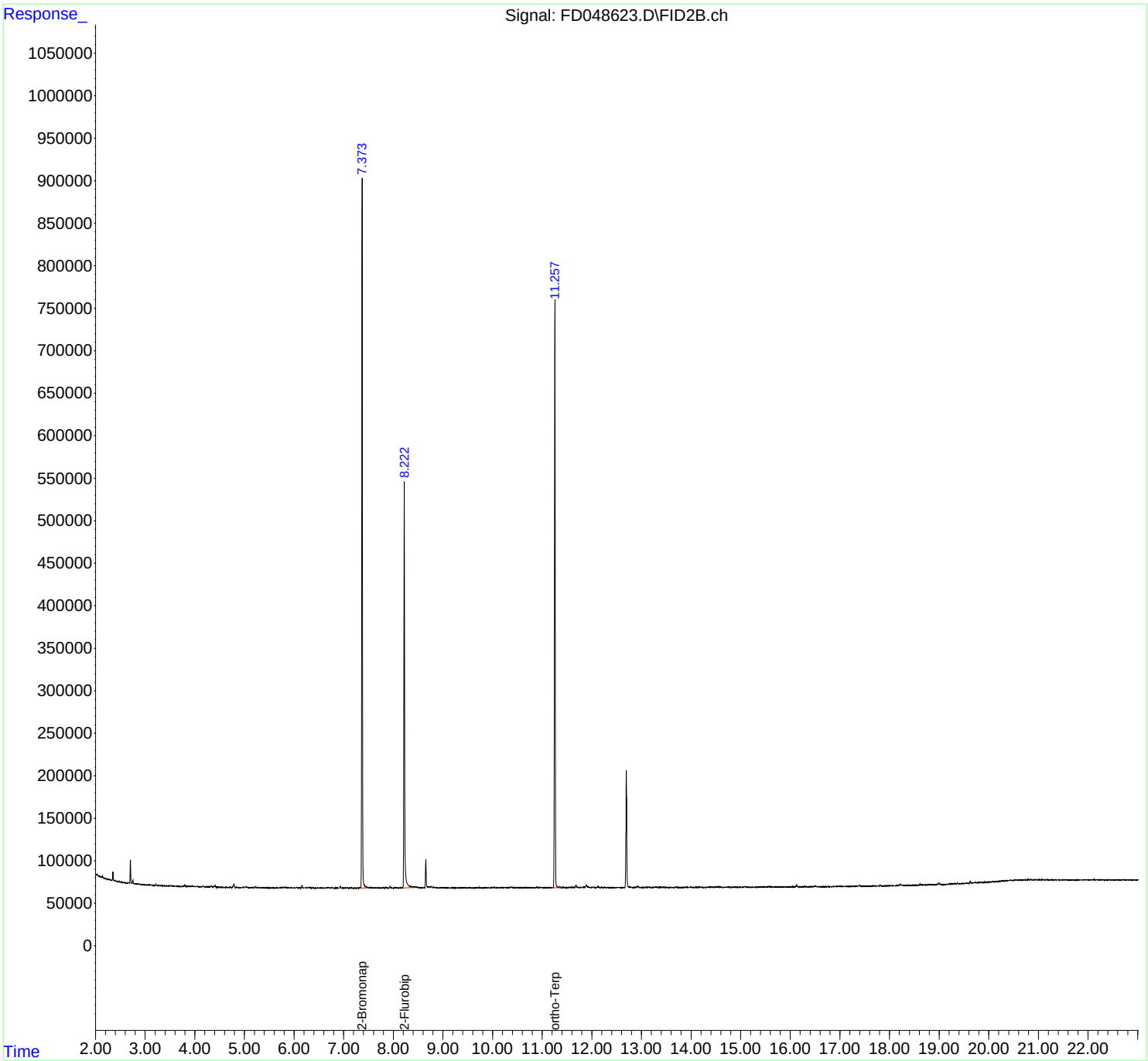
(f)=RT Delta > 1/2 Window (m)=manual int.

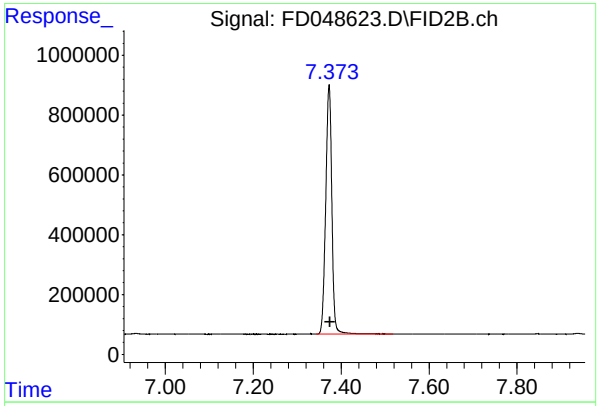
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048623.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 17:27
Operator : YP/AJ
Sample : PB164525BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164525BL

Integration File: autoint1.e
Quant Time: Nov 01 01:02:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

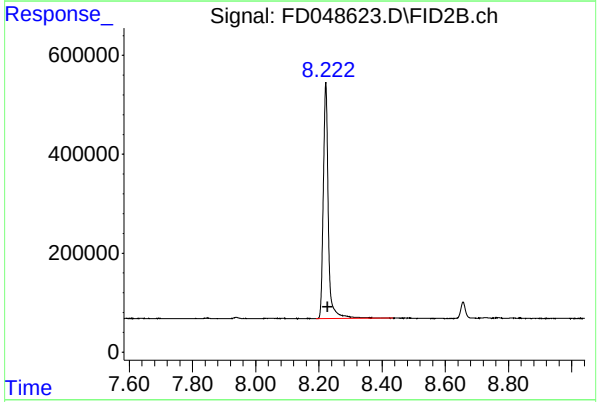




#4 2-Bromonaphthalene (SURR)

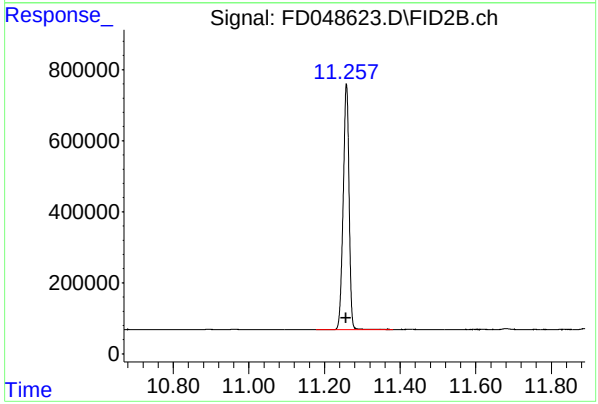
R.T.: 7.372 min
Delta R.T.: -0.002 min
Response: 8064149
Conc: 53.13 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164525BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.222 min
Delta R.T.: -0.006 min
Response: 5221900
Conc: 53.18 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.258 min
Delta R.T.: 0.001 min
Response: 7445393
Conc: 43.71 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048623.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 17:27
Sample : PB164525BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.372	7.343	7.518	VB	824320	8064149	100.00%	38.898%
2	8.222	8.191	8.434	BB	474682	5221900	64.75%	25.188%
3	11.258	11.178	11.381	BB	693503	7445393	92.33%	35.914%
			Sum of corrected areas:			20731442		

Aromatic EPH 102324.M Fri Nov 01 01:36:04 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050917.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 01:29
Operator : YP\AJ
Sample : PB164532BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB164532BL

Integration File: autoint1.e
Quant Time: Oct 31 05:19:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12)	S 1-chlorooctadecane (S...	13.291	3702614	31.300 ug/ml
Spiked Amount	50.000	Recovery =	62.60%	
	Target Compounds			

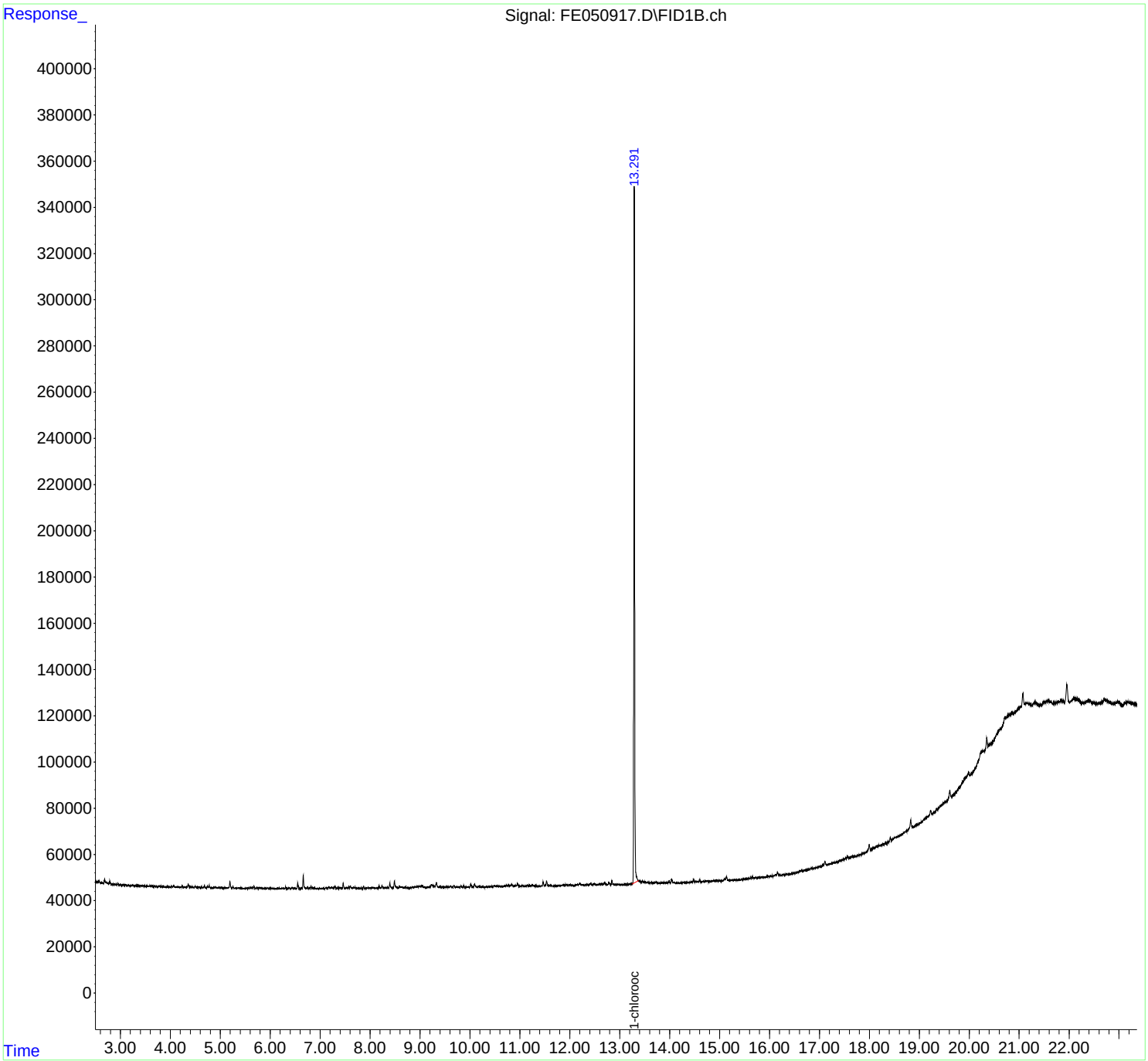
(f)=RT Delta > 1/2 Window (m)=manual int.

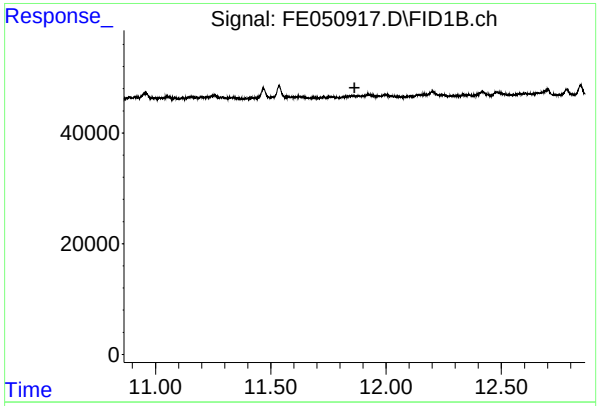
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050917.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 01:29
Operator : YP\AJ
Sample : PB164532BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB164532BL

Integration File: autoint1.e
Quant Time: Oct 31 05:19:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

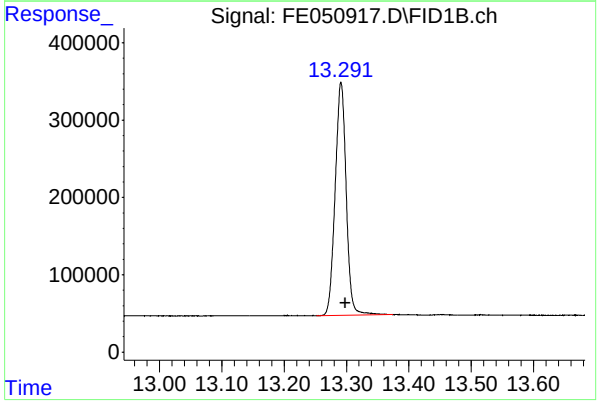




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.863 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
PB164532BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.291 min
Delta R.T.: -0.007 min
Response: 3702614
Conc: 31.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050917.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 01:29
Sample : PB164532BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.291	13.251	13.375	BB	301432	3702614	100.00%	100.000%
			Sum of corrected areas:			3702614		

Aliphatic EPH 100824.M Thu Oct 31 05:54:52 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014588.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 23:17
Operator : YP\AJ
Sample : PB164532BL
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164532BL

Integration File: autoint1.e
Quant Time: Oct 31 06:45:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	8.015	7460478	59.429 ug/ml
Spiked Amount 50.000		Recovery = 118.86%	
6) S 2-Flurobiphenyl (SURR)	8.889	5047590	58.601 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 117.20%	
11) S ortho-Terphenyl (SURR)	11.962	7307946	49.359 ug/ml
Spiked Amount 50.000		Recovery = 98.72%	
Target Compounds			

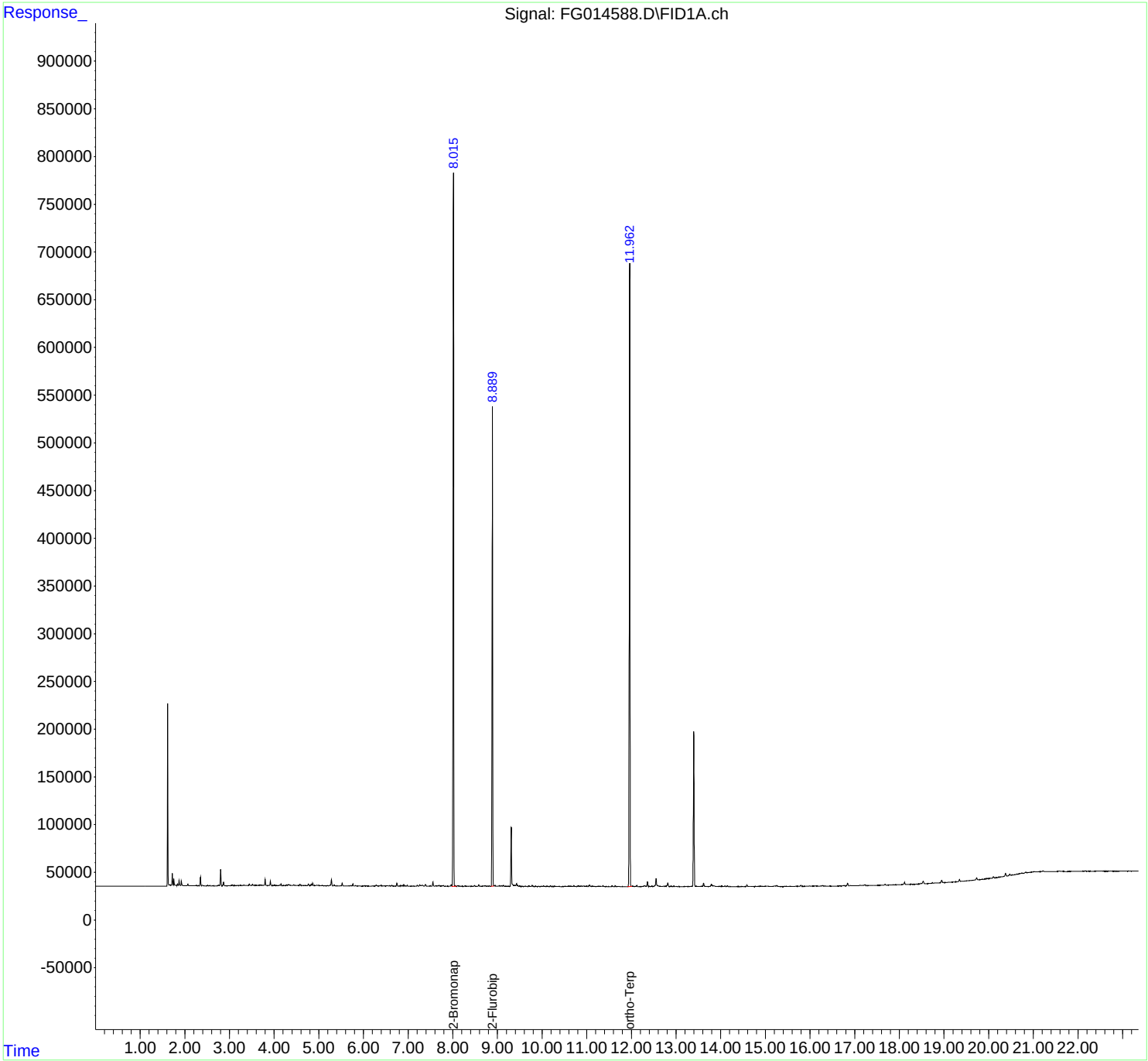
(f)=RT Delta > 1/2 Window (m)=manual int.

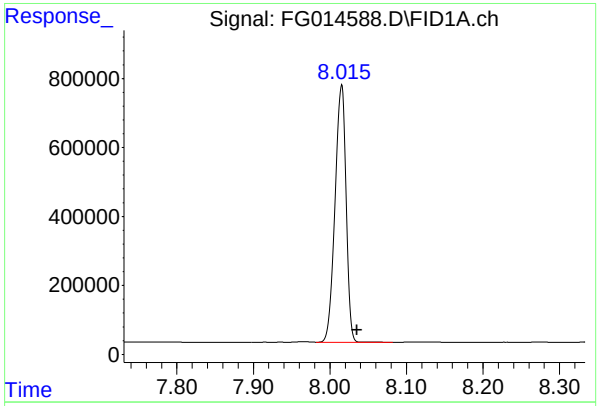
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014588.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 23:17
Operator : YP\AJ
Sample : PB164532BL
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164532BL

Integration File: autoint1.e
Quant Time: Oct 31 06:45:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

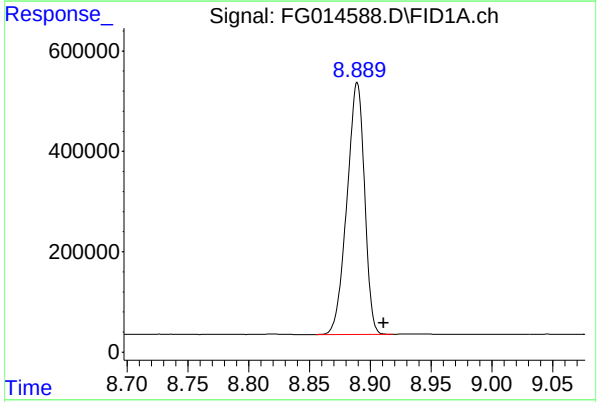




#4 2-Bromonaphthalene (SURR)

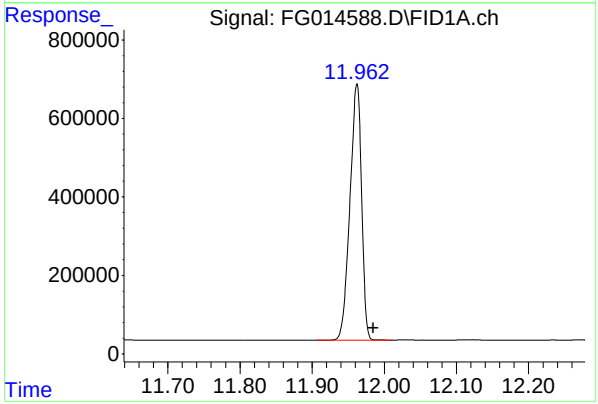
R.T.: 8.015 min
Delta R.T.: -0.021 min
Response: 7460478
Conc: 59.43 ug/ml

Instrument :
FID_G
ClientSampleId :
PB164532BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.889 min
Delta R.T.: -0.022 min
Response: 5047590
Conc: 58.60 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.962 min
Delta R.T.: -0.023 min
Response: 7307946
Conc: 49.36 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014588.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 23:17
Sample : PB164532BL
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	8.015	7.982	8.082	VV	752803	7460478	100.00%	37.649%
2	8.889	8.855	8.919	BV	501744	5047590	67.66%	25.472%
3	11.962	11.905	12.012	BV	655356	7307946	97.96%	36.879%

Sum of corrected areas: 19816014

Aromatic EPH 102124.M Thu Oct 31 07:07:36 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067569.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 18:04
Operator : YP/AJ
Sample : PB164525BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164525BS

Integration File: autoint1.e
Quant Time: Nov 01 00:19:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
12)	S 1-chlorooctadecane (S...	12.933	4860200	45.007	ug/ml
Spiked Amount	50.000		Recovery =	90.01%	
	Target Compounds				
1)	T n-Nonane (C9)	3.275	2735004	20.301	ug/ml
2)	T n-Decane (C10)	4.339	3538583	25.972	ug/ml
4)	T n-Dodecane (C12)	6.354	4321011	31.903	ug/ml
6)	T n-Tetradecane (C14)	8.146	4805296	36.609	ug/ml
7)	T n-Hexadecane (C16)	9.744	5194236	39.320	ug/ml
8)	T n-Octadecane (C18)	11.183	5502966	41.653	ug/ml
10)	T n-Eicosane (C20)	12.491	5625973	44.588	ug/ml
11)	T n-Heneicosane (C21)	13.102	5438921	44.070	ug/ml
13)	T n-Docosane (C22)	13.687	5421132	44.273	ug/ml
14)	T n-Tetracosane (C24)	14.787	5365345	44.265	ug/ml
15)	T n-Hexacosane (C26)	15.806	5281183	44.359	ug/ml
16)	T n-Octacosane (C28)	16.755	5223039	44.396	ug/ml
17)	T n-Tricontane (C30)	17.641	5248880	43.425	ug/ml
18)	T n-Dotriacontane (C32)	18.471	5154021	43.560	ug/ml
19)	T n-Tetratriacontane (C34)	19.254	4993617	47.682	ug/ml
20)	T n-Hexatriacontane (C36)	19.991	4663324	51.230	ug/ml
21)	T n-Octatriacontane (C38)	20.713	4422198	51.063	ug/ml
22)	T n-Tetracontane (C40)	21.597	4151242	48.832	ug/ml

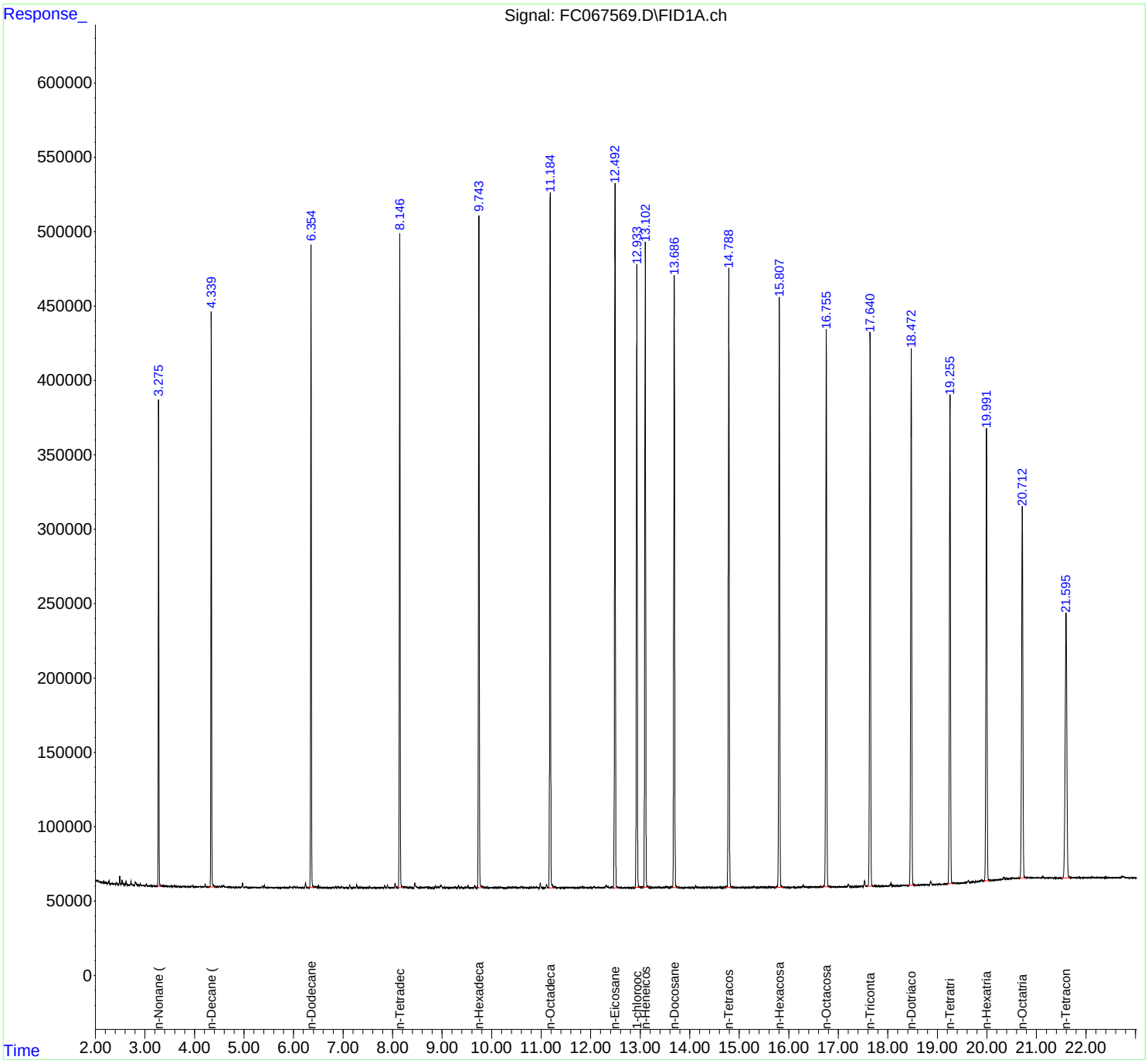
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067569.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 18:04
Operator : YP/AJ
Sample : PB164525BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164525BS

Integration File: autoint1.e
Quant Time: Nov 01 00:19:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067569.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 18:04
Sample : PB164525BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.275	3.245	3.335	BB	326785	2735004	48.61%	2.975%
2	4.339	4.285	4.420	BB	385881	3538583	62.90%	3.849%
3	6.354	6.288	6.418	BV	430694	4321011	76.80%	4.700%
4	8.146	8.085	8.217	BV	439955	4805296	85.41%	5.226%
5	9.744	9.697	9.832	BB	450899	5194236	92.33%	5.649%
6	11.183	11.145	11.295	PB	469494	5502966	97.81%	5.985%
7	12.491	12.450	12.557	PB	472827	5625973	100.00%	6.119%
8	12.933	12.868	12.992	BB	421131	4860200	86.39%	5.286%
9	13.102	13.035	13.170	BB	431111	5438921	96.68%	5.915%
10	13.687	13.648	13.760	PB	411619	5421132	96.36%	5.896%
11	14.787	14.697	14.857	BB	411786	5365345	95.37%	5.835%
12	15.806	15.723	15.887	BB	397202	5281183	93.87%	5.744%
13	16.755	16.668	16.832	BB	375347	5223039	92.84%	5.681%
14	17.641	17.575	17.717	BB	371190	5248880	93.30%	5.709%
15	18.471	18.403	18.548	BB	362088	5154021	91.61%	5.605%
16	19.254	19.185	19.313	BB	321553	4993617	88.76%	5.431%
17	19.991	19.932	20.062	BB	302176	4663324	82.89%	5.072%
18	20.713	20.632	20.787	BB	248043	4422198	78.60%	4.810%
19	21.597	21.505	21.687	BB	176778	4151242	73.79%	4.515%
			Sum of corrected areas:			91946172		

Aliphatic EPH 102324.M Fri Nov 01 00:48:53 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048624.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 18:04
Operator : YP/AJ
Sample : PB164525BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164525BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 01 01:02:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.373	7755971	51.100 ug/ml
Spiked Amount	50.000		Recovery =	102.20%
6) S	2-Flurobiphenyl (SURR)	8.223	5165623	52.607 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	105.21%
11) S	ortho-Terphenyl (SURR)	11.258	7474933	43.882 ug/ml
Spiked Amount	50.000		Recovery =	87.76%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.194	4855489	27.910 ug/mlm
2) T	Naphthalene (C11.7)	5.712	5642483	31.622 ug/ml
3) T	2-Methylnaphthalene (...	6.759	5609712	31.363 ug/ml
5) T	Acenaphthylene (C15.06)	8.025	6501012	37.023 ug/ml
7) T	Acenaphthene (C15.5)	8.320	6922700	39.031 ug/ml
8) T	Flouorene (C16.55)	9.098	6866064	40.619 ug/ml
9) T	Phenanthrene (C19.36)	10.486	6808381	41.187 ug/ml
10) T	Anthracene (C19.43)	10.561	6756572	42.252 ug/ml
12) T	Fluoranthene (C21.85)	12.289	6999115	42.528 ug/mlm
13) T	Pyrene (C20.8)	12.582	6791594	42.164 ug/ml
14) T	Benzo[a]anthracene (C...	14.452	6411746	43.851 ug/ml
15) T	Chrysene (C27.41)	14.494	6458235	39.262 ug/ml
16) T	benzo[b]fluoranthene ...	15.999	6462850	42.511 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.034	6495480	43.216 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.375	6259856	41.595 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.742	6346582	48.641 ug/ml
20) T	Dibenz[a,h]anthracene...	17.778	6191231	38.045 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.994	6265654	40.927 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

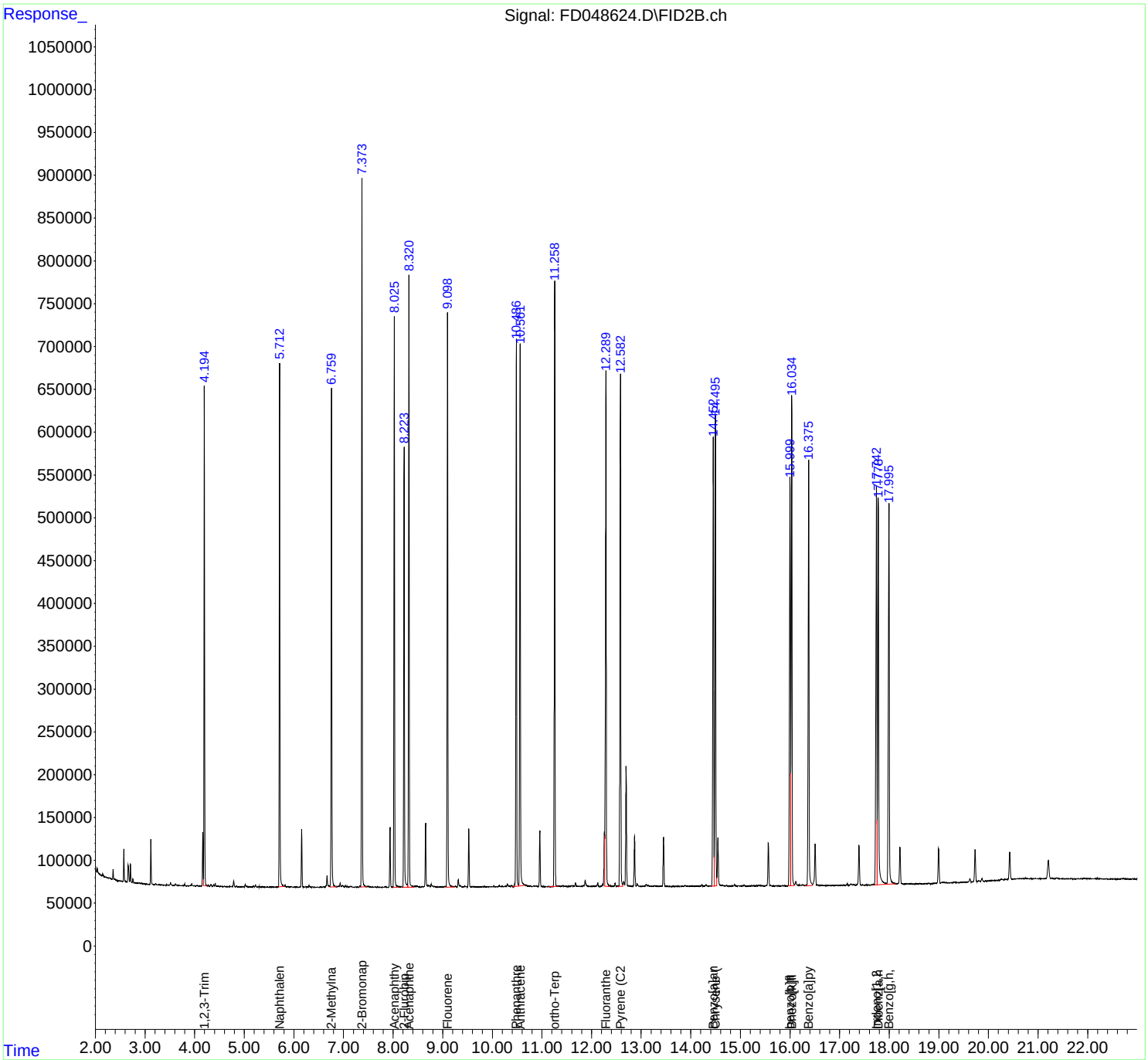
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048624.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 18:04
Operator : YP/AJ
Sample : PB164525BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 01:02:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
PB164525BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



12

Instrument :
FID_D
ClientSampleId :
PB164525BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10302
Data File : FD048624.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 18:04
Sample : PB164525BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.195	4.161	4.259	BV	545576	3695912	47.65%	2.749%
2	5.712	5.684	5.808	PV	606576	5642483	72.75%	4.198%
3	6.759	6.724	6.864	VV	577207	5609712	72.33%	4.173%
4	7.373	7.344	7.464	VV	830563	7755971	100.00%	5.770%
5	8.025	7.998	8.111	VV	658789	6501012	83.82%	4.836%
6	8.223	8.190	8.291	PV	516644	5165623	66.60%	3.843%
7	8.320	8.291	8.411	VV	716906	6922700	89.26%	5.150%
8	9.098	9.066	9.238	VV	664491	6866064	88.53%	5.108%
9	10.486	10.409	10.531	PV	635383	6808381	87.78%	5.065%
10	10.561	10.531	10.664	VV	629388	6756572	87.11%	5.026%
11	11.258	11.124	11.324	BV	702511	7474933	96.38%	5.561%
12	12.289	12.234	12.414	VB	609686	7541492	97.23%	5.610%
13	12.582	12.518	12.628	PV	592652	6791594	87.57%	5.052%
14	14.452	14.405	14.471	PV	522564	6411746	82.67%	4.770%
15	14.494	14.471	14.524	VV	548364	6458235	83.27%	4.804%
16	15.999	15.961	16.014	BV	472234	6462850	83.33%	4.808%
17	16.034	16.014	16.092	VV	574714	6495480	83.75%	4.832%
18	16.375	16.301	16.452	BV	493675	6259856	80.71%	4.657%
19	17.742	17.701	17.757	BV	463093	6346582	81.83%	4.721%
20	17.778	17.757	17.951	VV	449896	6191231	79.83%	4.606%
21	17.994	17.951	18.144	VB	446403	6265654	80.78%	4.661%

Sum of corrected areas: 134424081

Aromatic EPH 102324.M Fri Nov 01 01:36:46 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050918.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 01:59
Operator : YP\AJ
Sample : PB164532BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB164532BS

Integration File: autoint1.e
Quant Time: Oct 31 05:19:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12)	S 1-chlorooctadecane (S...	13.291	3932867	33.247 ug/ml
	Spiked Amount 50.000		Recovery = 66.49%	
	Target Compounds			
1)	T n-Nonane (C9)	3.245	3299378	23.352 ug/ml
2)	T n-Decane (C10)	4.495	4006009	27.921 ug/ml
4)	T n-Dodecane (C12)	6.664	4691117	32.592 ug/ml
6)	T n-Tetradecane (C14)	8.491	5333237	37.278 ug/ml
7)	T n-Hexadecane (C16)	10.097	5932583	40.311 ug/ml
8)	T n-Octadecane (C18)	11.538	6279633	42.041 ug/ml
10)	T n-Eicosane (C20)	12.846	6621110	46.172 ug/ml
11)	T n-Heneicosane (C21)	13.458	6430158	45.788 ug/ml
13)	T n-Docosane (C22)	14.043	6467541	46.099 ug/ml
14)	T n-Tetracosane (C24)	15.144	6429058	45.507 ug/ml
15)	T n-Hexacosane (C26)	16.164	6417963	45.609 ug/ml
16)	T n-Octacosane (C28)	17.113	6528503	44.615 ug/ml
17)	T n-Tricontane (C30)	18.000	6767957	42.565 ug/ml
18)	T n-Dotriacontane (C32)	18.831	6988105	43.106 ug/ml
19)	T n-Tetratriacontane (C34)	19.615	7226775	49.198 ug/ml
20)	T n-Hexatriacontane (C36)	20.354	7143100	56.327 ug/ml
21)	T n-Octatriacontane (C38)	21.079	7302668	59.060 ug/ml
22)	T n-Tetracontane (C40)	21.964	6605338	59.320 ug/ml

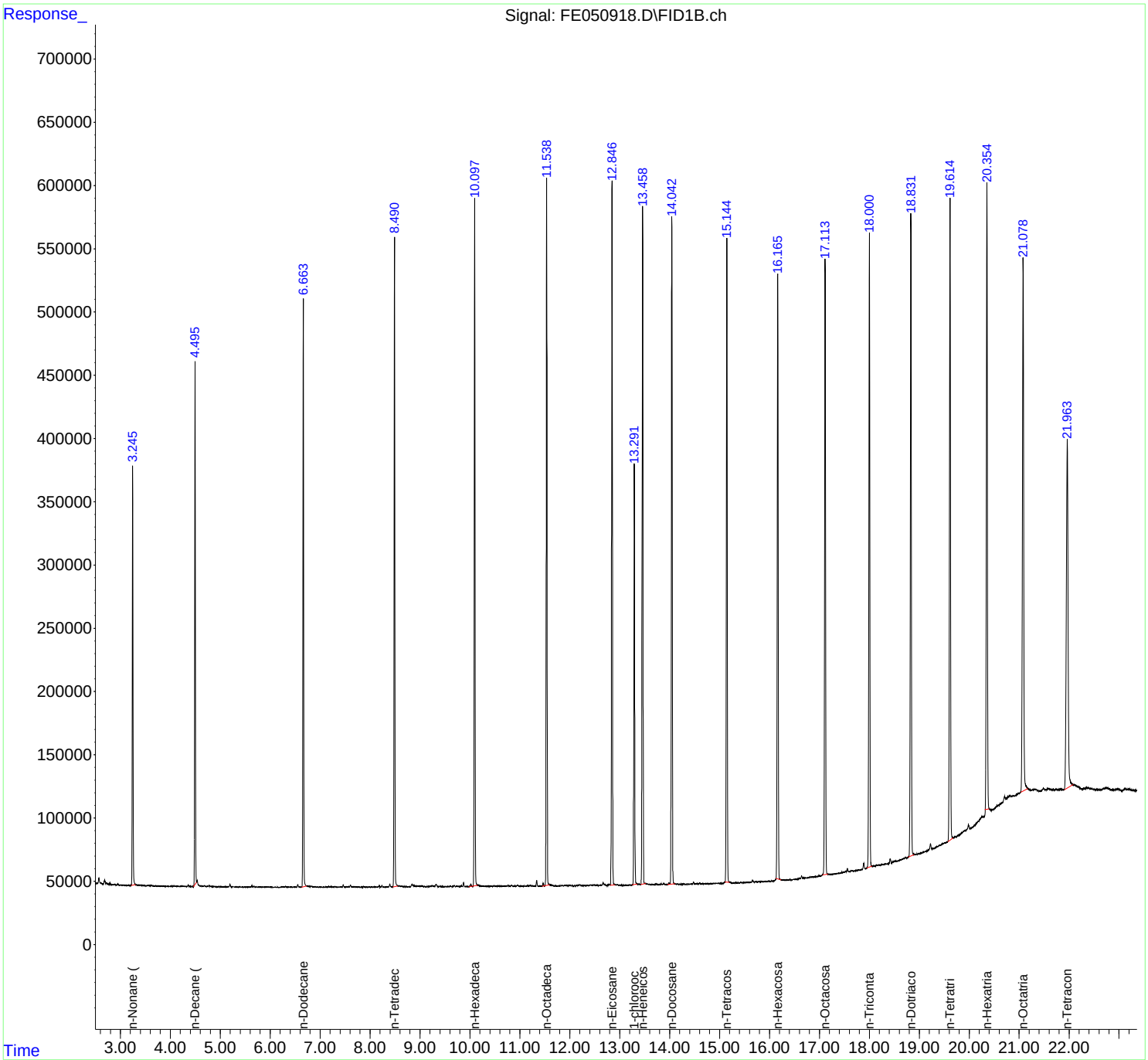
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050918.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 01:59
Operator : YP\AJ
Sample : PB164532BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB164532BS

Integration File: autoint1.e
Quant Time: Oct 31 05:19:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050918.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 01:59
Sample : PB164532BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.245	3.214	3.308	BB	330884	3299378	45.18%	2.884%
2	4.495	4.461	4.527	BV	409650	4006009	54.86%	3.502%
3	6.664	6.631	6.728	BB	465948	4691117	64.24%	4.101%
4	8.491	8.454	8.554	BB	514368	5333237	73.03%	4.662%
5	10.097	9.981	10.158	BB	547205	5932583	81.24%	5.186%
6	11.538	11.441	11.601	BB	559135	6279633	85.99%	5.489%
7	12.846	12.808	12.908	BB	562675	6621110	90.67%	5.788%
8	13.291	13.248	13.354	BB	332938	3932867	53.86%	3.438%
9	13.458	13.418	13.514	BB	534110	6430158	88.05%	5.621%
10	14.043	13.951	14.104	BB	527562	6467541	88.56%	5.653%
11	15.144	15.111	15.199	BBA	510170	6429058	88.04%	5.620%
12	16.164	16.131	16.224	BB	480437	6417963	87.89%	5.610%
13	17.113	17.061	17.171	BB	488803	6528503	89.40%	5.707%
14	18.000	17.951	18.058	BB	502747	6767957	92.68%	5.916%
15	18.831	18.781	18.898	BB	506198	6988105	95.69%	6.108%
16	19.615	19.571	19.678	BB	506653	7226775	98.96%	6.317%
17	20.354	20.321	20.399	BBA	496671	7143100	97.81%	6.244%
18	21.079	21.031	21.169	BBA	420195	7302668	100.00%	6.383%
19	21.964	21.901	22.078	BB	275911	6605338	90.45%	5.774%

Sum of corrected areas: 114403098

Aliphatic EPH 100824.M Thu Oct 31 05:55:02 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014589.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 23:46
Operator : YP\AJ
Sample : PB164532BS
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164532BS

Integration File: autoint1.e
Quant Time: Oct 31 06:45:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	8.015	7379611	58.785 ug/ml
	Spiked Amount 50.000		Recovery = 117.57%	
6)	S 2-Flurobiphenyl (SURR)	8.890	4922210	57.145 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 114.29%	
11)	S ortho-Terphenyl (SURR)	11.961	6936011	46.847 ug/ml
	Spiked Amount 50.000		Recovery = 93.69%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.618	5918950	43.686 ug/ml
2)	T Naphthalene (C11.7)	6.288	6786790	47.294 ug/ml
3)	T 2-Methylnaphthalene (...	7.386	6752790	46.237 ug/ml
5)	T Acenaphthylene (C15.06)	8.690	7325970	50.318 ug/ml
7)	T Acenaphthene (C15.5)	8.992	7758440	53.611 ug/ml
8)	T Flouorene (C16.55)	9.782	8138315	56.176 ug/ml
9)	T Phenanthrene (C19.36)	11.191	8482476	57.630 ug/ml
10)	T Anthracene (C19.43)	11.268	8517863	60.742 ug/ml
12)	T Fluoranthene (C21.85)	13.016	8561842	57.892 ug/ml
13)	T Pyrene (C20.8)	13.316	9006198	61.259 ug/ml
14)	T Benzo[a]anthracene (C...	15.197	8204184	56.651 ug/ml
15)	T Chrysene (C27.41)	15.243	9311757	63.481 ug/ml
16)	T benzo[b]fluoranthene ...	16.756	8046677	54.710 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.792	7789437	56.444 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.137	7494013	52.547 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.510	8066546	60.436 ug/ml
20)	T Dibenz[a,h]anthracene...	18.550	7178390	51.439 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.768	7109836	51.103 ug/ml

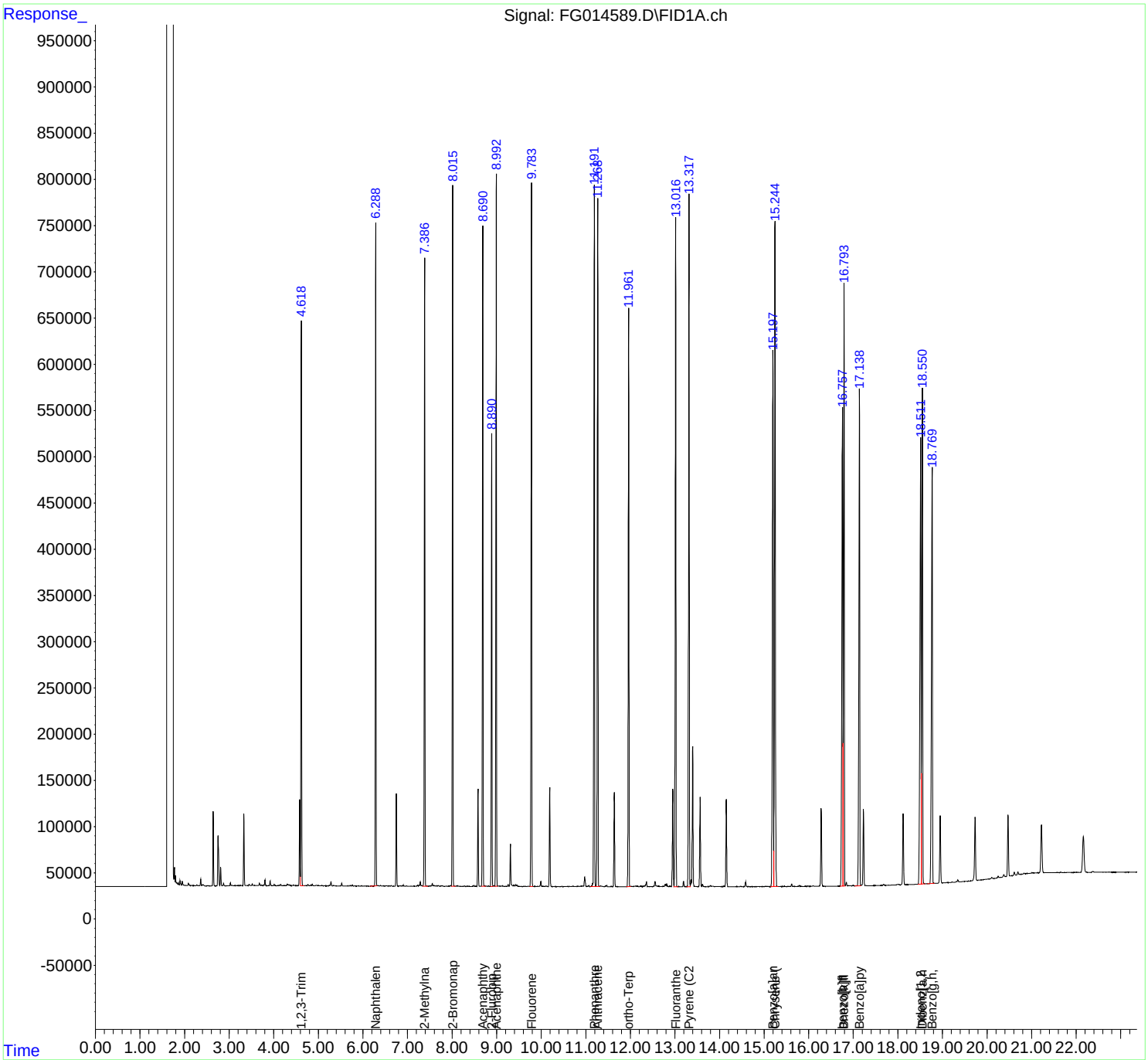
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014589.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 23:46
Operator : YP\AJ
Sample : PB164532BS
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164532BS

Integration File: autoint1.e
Quant Time: Oct 31 06:45:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014589.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 23:46
Sample : PB164532BS
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.618	4.597	4.681	VB	610892	5918950	63.56%	3.707%
2	6.288	6.158	6.324	BV	717919	6786790	72.88%	4.250%
3	7.386	7.345	7.458	VB	685842	6752790	72.52%	4.229%
4	8.015	7.981	8.079	VV	759450	7379611	79.25%	4.621%
5	8.690	8.655	8.758	BV	718489	7325970	78.67%	4.588%
6	8.890	8.855	8.918	BV	494792	4922210	52.86%	3.082%
7	8.992	8.957	9.023	VV	763044	7758440	83.32%	4.858%
8	9.782	9.738	9.816	BB	750762	8138315	87.40%	5.096%
9	11.191	11.101	11.221	BV	760017	8482476	91.09%	5.312%
10	11.268	11.221	11.320	VV	744699	8517863	91.47%	5.334%
11	11.961	11.905	12.005	BV	626733	6936011	74.49%	4.343%
12	13.016	12.977	13.071	VB	717387	8561842	91.95%	5.362%
13	13.316	13.261	13.341	BV	762713	9006198	96.72%	5.640%
14	15.197	15.138	15.216	BV	585460	8204184	88.11%	5.138%
15	15.243	15.216	15.318	VB	730902	9311757	100.00%	5.831%
16	16.756	16.698	16.771	BV	509759	8046677	86.41%	5.039%
17	16.792	16.771	16.819	VV	635163	7789437	83.65%	4.878%
18	17.137	17.035	17.168	BV	542886	7494013	80.48%	4.693%
19	18.510	18.451	18.525	BV	488441	8066546	86.63%	5.051%
20	18.550	18.525	18.618	VB	525436	7178390	77.09%	4.495%
21	18.768	18.658	18.821	BB	449986	7109836	76.35%	4.452%

Sum of corrected areas: 159688306

Aromatic EPH 102124.M Thu Oct 31 07:08:21 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067570.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 18:41
Operator : YP/AJ
Sample : PB164525BSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164525BSD

Integration File: autoint1.e
Quant Time: Nov 01 00:19:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.932	4963532	45.964 ug/ml
Spiked Amount	50.000		Recovery =	91.93%
	Target Compounds			
1) T	n-Nonane (C9)	3.275	2757170	20.466 ug/ml
2) T	n-Decane (C10)	4.339	3585124	26.314 ug/ml
4) T	n-Dodecane (C12)	6.354	4405619	32.528 ug/ml
6) T	n-Tetradecane (C14)	8.146	4922846	37.504 ug/ml
7) T	n-Hexadecane (C16)	9.745	5334457	40.381 ug/ml
8) T	n-Octadecane (C18)	11.183	5653413	42.792 ug/ml
10) T	n-Eicosane (C20)	12.491	5785633	45.853 ug/ml
11) T	n-Heneicosane (C21)	13.101	5597920	45.359 ug/ml
13) T	n-Docosane (C22)	13.686	5576352	45.540 ug/ml
14) T	n-Tetracosane (C24)	14.787	5514785	45.498 ug/ml
15) T	n-Hexacosane (C26)	15.806	5412755	45.464 ug/ml
16) T	n-Octacosane (C28)	16.755	5352438	45.496 ug/ml
17) T	n-Tricontane (C30)	17.641	5353618	44.292 ug/ml
18) T	n-Dotriacontane (C32)	18.471	5249970	44.371 ug/ml
19) T	n-Tetratriacontane (C34)	19.253	5081450	48.521 ug/ml
20) T	n-Hexatriacontane (C36)	19.991	4749536	52.177 ug/ml
21) T	n-Octatriacontane (C38)	20.712	4505880	52.030 ug/ml
22) T	n-Tetracontane (C40)	21.597	4238541	49.859 ug/ml

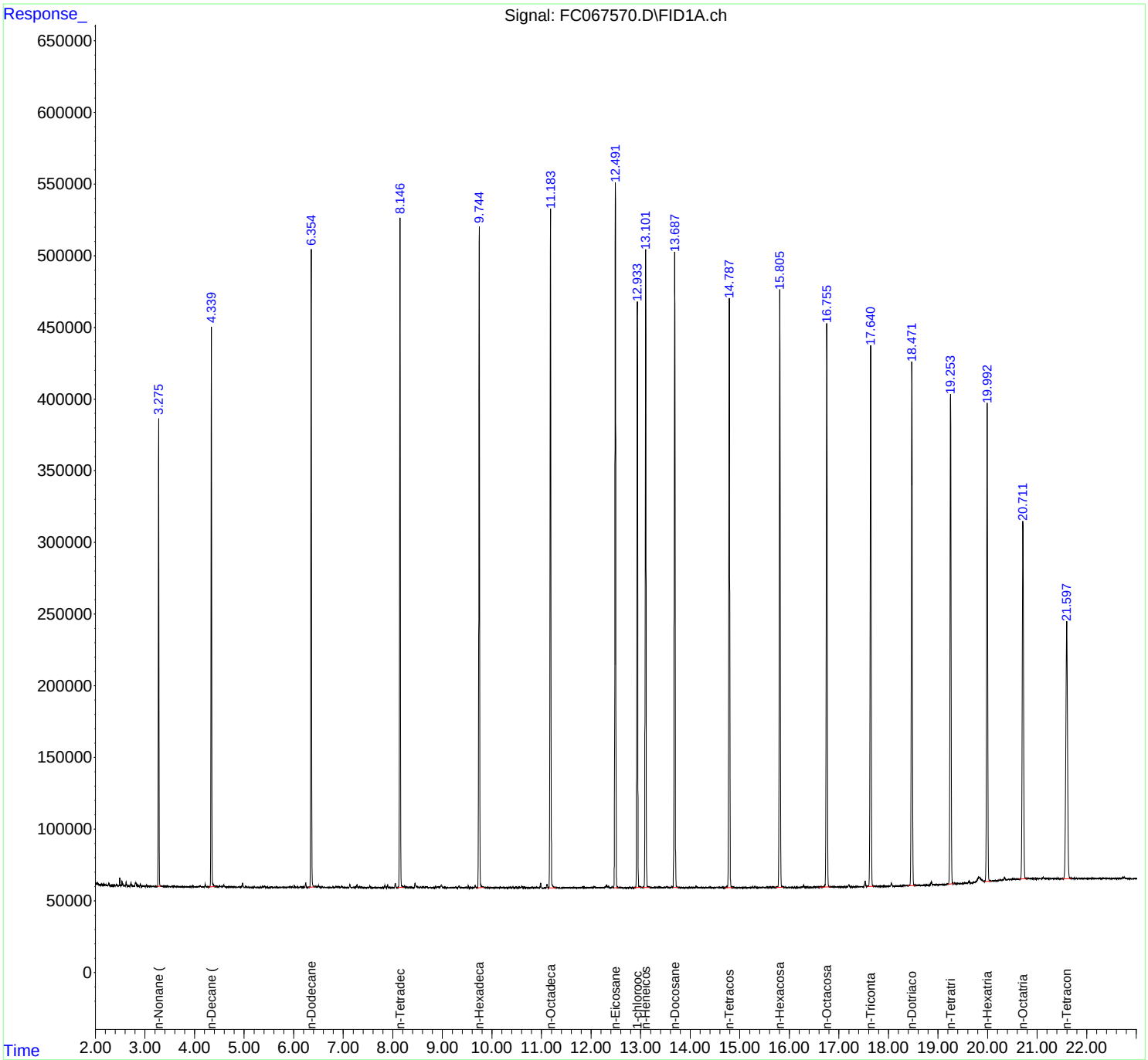
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067570.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 18:41
Operator : YP/AJ
Sample : PB164525BSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164525BSD

Integration File: autoint1.e
Quant Time: Nov 01 00:19:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067570.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 18:41
Sample : PB164525BSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.275	3.245	3.329	BB	326204	2757170	47.66%	2.932%
2	4.339	4.287	4.412	BB	389832	3585124	61.97%	3.812%
3	6.354	6.294	6.420	BV	444821	4405619	76.15%	4.685%
4	8.146	8.089	8.220	BV	463899	4922846	85.09%	5.235%
5	9.745	9.699	9.834	BB	461962	5334457	92.20%	5.672%
6	11.183	11.144	11.295	PB	473275	5653413	97.71%	6.012%
7	12.491	12.450	12.557	PB	491363	5785633	100.00%	6.152%
8	12.932	12.864	13.004	BB	402552	4963532	85.79%	5.278%
9	13.101	13.034	13.177	BB	445473	5597920	96.76%	5.953%
10	13.686	13.650	13.762	VB	443589	5576352	96.38%	5.930%
11	14.787	14.697	14.864	BB	410064	5514785	95.32%	5.864%
12	15.806	15.722	15.880	BB	410981	5412755	93.56%	5.756%
13	16.755	16.599	16.829	BB	393301	5352438	92.51%	5.692%
14	17.641	17.574	17.709	BB	376862	5353618	92.53%	5.693%
15	18.471	18.395	18.550	BB	366033	5249970	90.74%	5.583%
16	19.253	19.199	19.324	BB	337567	5081450	87.83%	5.403%
17	19.991	19.937	20.064	BB	333426	4749536	82.09%	5.050%
18	20.712	20.635	20.794	BB	247646	4505880	77.88%	4.791%
19	21.597	21.505	21.700	BB	179492	4238541	73.26%	4.507%
			Sum of corrected areas:			94041039		

Aliphatic EPH 102324.M Fri Nov 01 00:49:23 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048625.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 18:41
Operator : YP/AJ
Sample : PB164525BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164525BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 01 01:02:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.373	7894586	52.014 ug/ml
	Spiked Amount 50.000		Recovery = 104.03%	
6)	S 2-Flurobiphenyl (SURR)	8.223	5226799	53.230 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 106.46%	
11)	S ortho-Terphenyl (SURR)	11.259	7598459	44.608 ug/ml
	Spiked Amount 50.000		Recovery = 89.22%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.195	4949559	28.450 ug/mlm
2)	T Naphthalene (C11.7)	5.712	5726726	32.094 ug/ml
3)	T 2-Methylnaphthalene (...	6.759	5704681	31.894 ug/ml
5)	T Acenaphthylene (C15.06)	8.025	6603103	37.605 ug/ml
7)	T Acenaphthene (C15.5)	8.321	6995643	39.442 ug/ml
8)	T Flouorene (C16.55)	9.099	6968023	41.222 ug/ml
9)	T Phenanthrene (C19.36)	10.486	6924252	41.888 ug/ml
10)	T Anthracene (C19.43)	10.561	6875067	42.993 ug/ml
12)	T Fluoranthene (C21.85)	12.290	7059650	42.896 ug/mlm
13)	T Pyrene (C20.8)	12.583	6875463	42.684 ug/ml
14)	T Benzo[a]anthracene (C...	14.452	6510948	44.530 ug/ml
15)	T Chrysene (C27.41)	14.494	6549044	39.814 ug/ml
16)	T benzo[b]fluoranthene ...	16.000	6560076	43.150 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.034	6590022	43.845 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.375	6353499	42.217 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.742	6435448	49.322 ug/ml
20)	T Dibenz[a,h]anthracene...	17.780	6296958	38.694 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.994	6359737	41.542 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

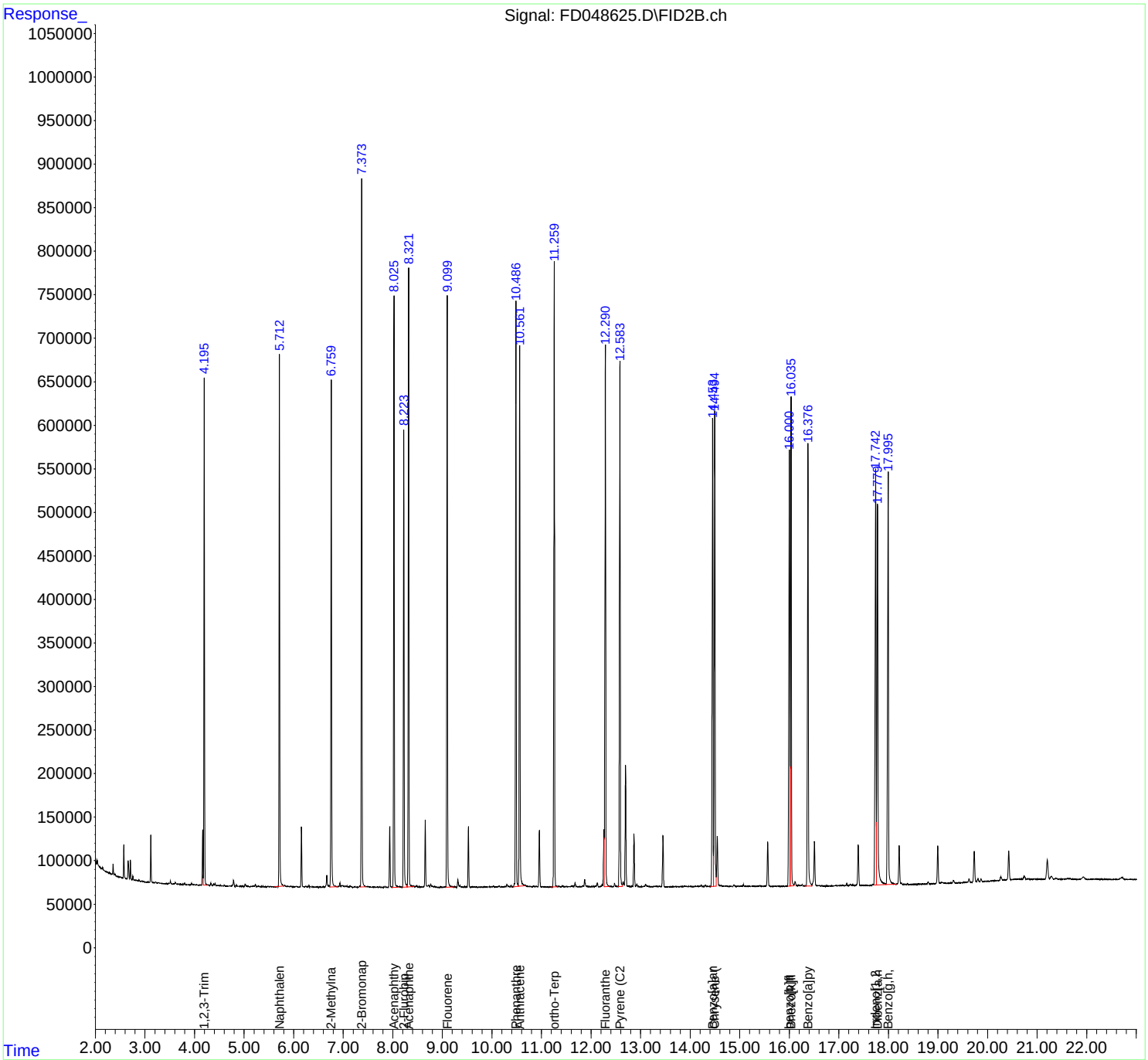
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048625.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 18:41
Operator : YP/AJ
Sample : PB164525BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 01:02:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
PB164525BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



12

Instrument :
FID_D
ClientSampleId :
PB164525BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10302
Data File : FD048625.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 18:41
Sample : PB164525BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.195	4.161	4.261	BV	544232	3713526	47.04%	2.722%
2	5.712	5.604	5.805	BV	603110	5726726	72.54%	4.198%
3	6.759	6.725	6.888	VV	573996	5704681	72.26%	4.181%
4	7.373	7.344	7.464	VV	821526	7894586	100.00%	5.787%
5	8.025	7.981	8.109	VV	675891	6603103	83.64%	4.840%
6	8.223	8.194	8.290	PV	519238	5226799	66.21%	3.831%
7	8.321	8.290	8.434	VB	714175	6995643	88.61%	5.128%
8	9.099	9.066	9.238	VV	670991	6968023	88.26%	5.107%
9	10.486	10.421	10.531	PV	680978	6924252	87.71%	5.075%
10	10.561	10.531	10.668	VV	623986	6875067	87.09%	5.039%
11	11.259	11.181	11.331	BV	709464	7598459	96.25%	5.570%
12	12.289	12.234	12.451	VV	632475	7666135	97.11%	5.619%
13	12.583	12.544	12.628	BV	593735	6875463	87.09%	5.040%
14	14.452	14.404	14.471	PV	529505	6510948	82.47%	4.772%
15	14.494	14.471	14.524	VV	546686	6549044	82.96%	4.800%
16	16.000	15.961	16.015	BV	503435	6560076	83.10%	4.808%
17	16.034	16.015	16.094	VV	561951	6590022	83.48%	4.830%
18	16.375	16.314	16.454	BV	496632	6353499	80.48%	4.657%
19	17.742	17.701	17.757	BV	471893	6435448	81.52%	4.717%
20	17.780	17.757	17.951	VV	444105	6296958	79.76%	4.616%
21	17.994	17.951	18.168	VV	472866	6359737	80.56%	4.662%

Sum of corrected areas: 136428196

Aromatic EPH 102324.M Fri Nov 01 01:37:40 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050919.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 02:29
Operator : YP\AJ
Sample : PB164532BSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB164532BSD

Integration File: autoint1.e
Quant Time: Oct 31 05:20:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12)	S 1-chlorooctadecane (S...	13.291	3868462	32.702 ug/ml
	Spiked Amount 50.000		Recovery =	65.40%
	Target Compounds			
1)	T n-Nonane (C9)	3.246	3204881	22.683 ug/ml
2)	T n-Decane (C10)	4.496	4008419	27.938 ug/ml
4)	T n-Dodecane (C12)	6.664	4599166	31.953 ug/ml
6)	T n-Tetradecane (C14)	8.491	5253015	36.717 ug/ml
7)	T n-Hexadecane (C16)	10.097	5871647	39.897 ug/ml
8)	T n-Octadecane (C18)	11.538	6224019	41.669 ug/ml
10)	T n-Eicosane (C20)	12.845	6574543	45.847 ug/ml
11)	T n-Heneicosane (C21)	13.458	6387081	45.481 ug/ml
13)	T n-Docosane (C22)	14.042	6405992	45.661 ug/ml
14)	T n-Tetracosane (C24)	15.144	6374131	45.118 ug/ml
15)	T n-Hexacosane (C26)	16.164	6367685	45.252 ug/ml
16)	T n-Octacosane (C28)	17.113	6473214	44.237 ug/ml
17)	T n-Tricontane (C30)	17.999	6717706	42.249 ug/ml
18)	T n-Dotriacontane (C32)	18.831	6922038	42.699 ug/ml
19)	T n-Tetratriacontane (C34)	19.614	7177066	48.860 ug/ml
20)	T n-Hexatriacontane (C36)	20.355	7106140	56.036 ug/ml
21)	T n-Octatriacontane (C38)	21.080	7406331	59.899 ug/ml
22)	T n-Tetracontane (C40)	21.966	7028551	63.121 ug/ml

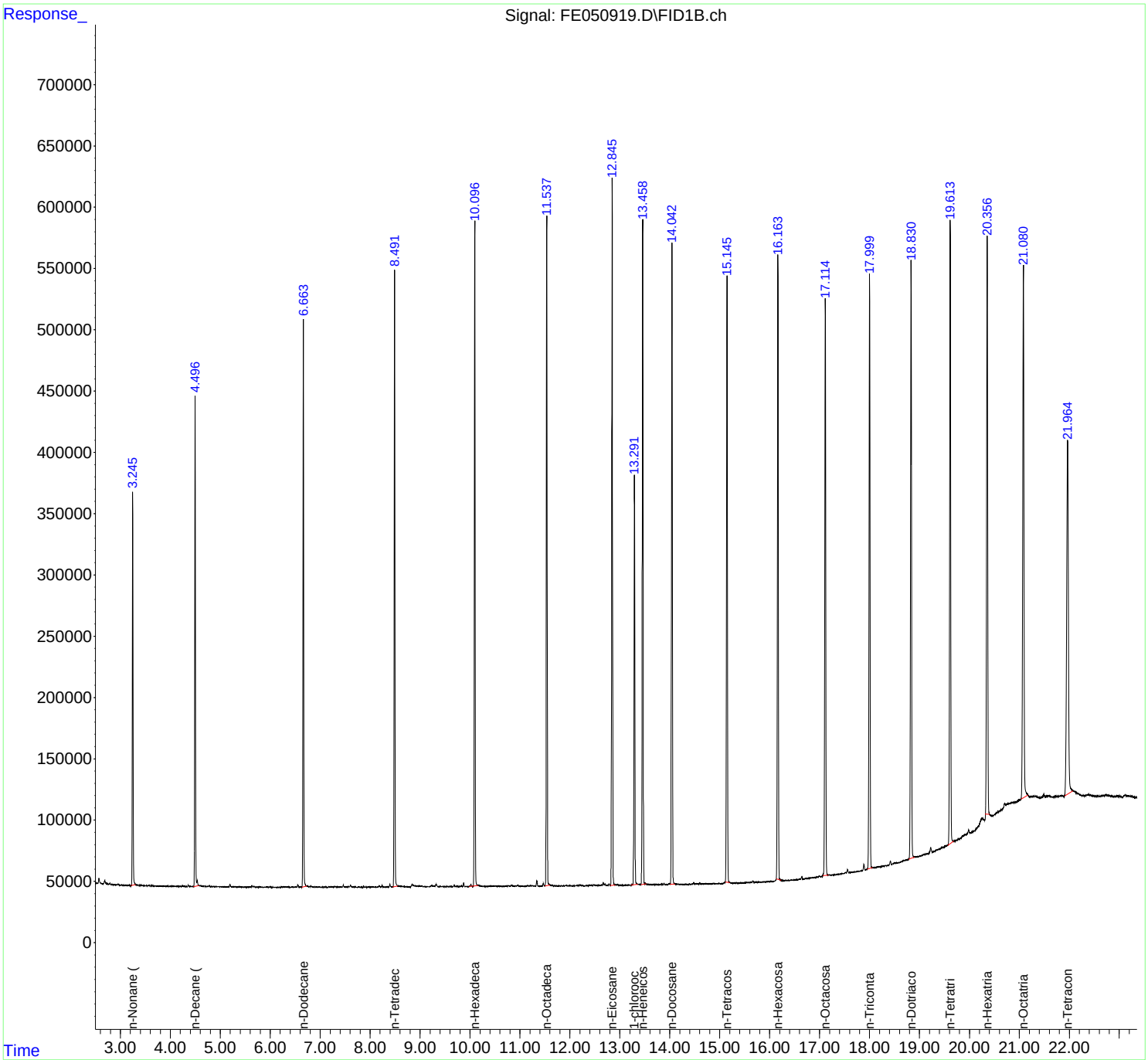
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050919.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 02:29
Operator : YP\AJ
Sample : PB164532BSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB164532BSD

Integration File: autoint1.e
Quant Time: Oct 31 05:20:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103024AL\
Data File : FE050919.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2024 02:29
Sample : PB164532BSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.246	3.214	3.308	BB	319317	3204881	43.27%	2.812%
2	4.496	4.461	4.574	BB	394975	4008419	54.12%	3.517%
3	6.664	6.631	6.734	BB	462652	4599166	62.10%	4.035%
4	8.491	8.451	8.554	BB	502991	5253015	70.93%	4.609%
5	10.097	9.978	10.168	BB	543461	5871647	79.28%	5.152%
6	11.538	11.498	11.604	BB	546752	6224019	84.04%	5.461%
7	12.845	12.808	12.911	BB	574469	6574543	88.77%	5.769%
8	13.291	13.221	13.358	BB	334229	3868462	52.23%	3.394%
9	13.458	13.418	13.524	BB	540679	6387081	86.24%	5.604%
10	14.042	14.004	14.108	BB	519509	6405992	86.49%	5.621%
11	15.144	15.111	15.199	BBA	494085	6374131	86.06%	5.593%
12	16.164	16.131	16.231	BB	507967	6367685	85.98%	5.587%
13	17.113	17.061	17.174	BB	477763	6473214	87.40%	5.680%
14	17.999	17.951	18.064	BB	479823	6717706	90.70%	5.894%
15	18.831	18.781	18.898	BB	484513	6922038	93.46%	6.074%
16	19.614	19.571	19.681	BB	508301	7177066	96.90%	6.297%
17	20.355	20.321	20.399	BBA	469089	7106140	95.95%	6.235%
18	21.080	21.031	21.169	BBA	434262	7406331	100.00%	6.498%
19	21.966	21.901	22.071	BB	289092	7028551	94.90%	6.167%

Sum of corrected areas: 113970087

Aliphatic EPH 100824.M Thu Oct 31 05:55:15 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014590.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:14
Operator : YP\AJ
Sample : PB164532BSD
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164532BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/31/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Oct 31 06:45:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	8.014	7189766	57.273 ug/ml
Spiked Amount	50.000		Recovery =	114.55%
6) S	2-Flurobiphenyl (SURR)	8.890	4787719	55.584 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	111.17%
11) S	ortho-Terphenyl (SURR)	11.961	6721823	45.400 ug/ml
Spiked Amount	50.000		Recovery =	90.80%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.617	5773614	42.613 ug/ml
2) T	Naphthalene (C11.7)	6.287	6621449	46.141 ug/ml
3) T	2-Methylnaphthalene (...	7.386	6583952	45.081 ug/ml
5) T	Acenaphthylene (C15.06)	8.690	7131290	48.980 ug/ml
7) T	Acenaphthene (C15.5)	8.992	7548348	52.159 ug/ml
8) T	Flouorene (C16.55)	9.782	7910958	54.606 ug/ml
9) T	Phenanthrene (C19.36)	11.191	8233263	55.937 ug/ml
10) T	Anthracene (C19.43)	11.267	8267723	58.958 ug/ml
12) T	Fluoranthene (C21.85)	13.015	8303698	56.147 ug/ml
13) T	Pyrene (C20.8)	13.315	8737736	59.433 ug/ml
14) T	Benzo[a]anthracene (C...	15.196	7988678	55.163 ug/ml
15) T	Chrysene (C27.41)	15.242	9048683	61.688 ug/ml
16) T	benzo[b]fluoranthene ...	16.753	7825133	53.203 ug/mlm
17) T	Bnezo[k]fluoranthene ...	16.791	7626120	55.260 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.136	7321177	51.335 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.510	7899298	59.183 ug/ml
20) T	Dibenz[a,h]anthracene...	18.548	7054338	50.550 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.767	6975766	50.139 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

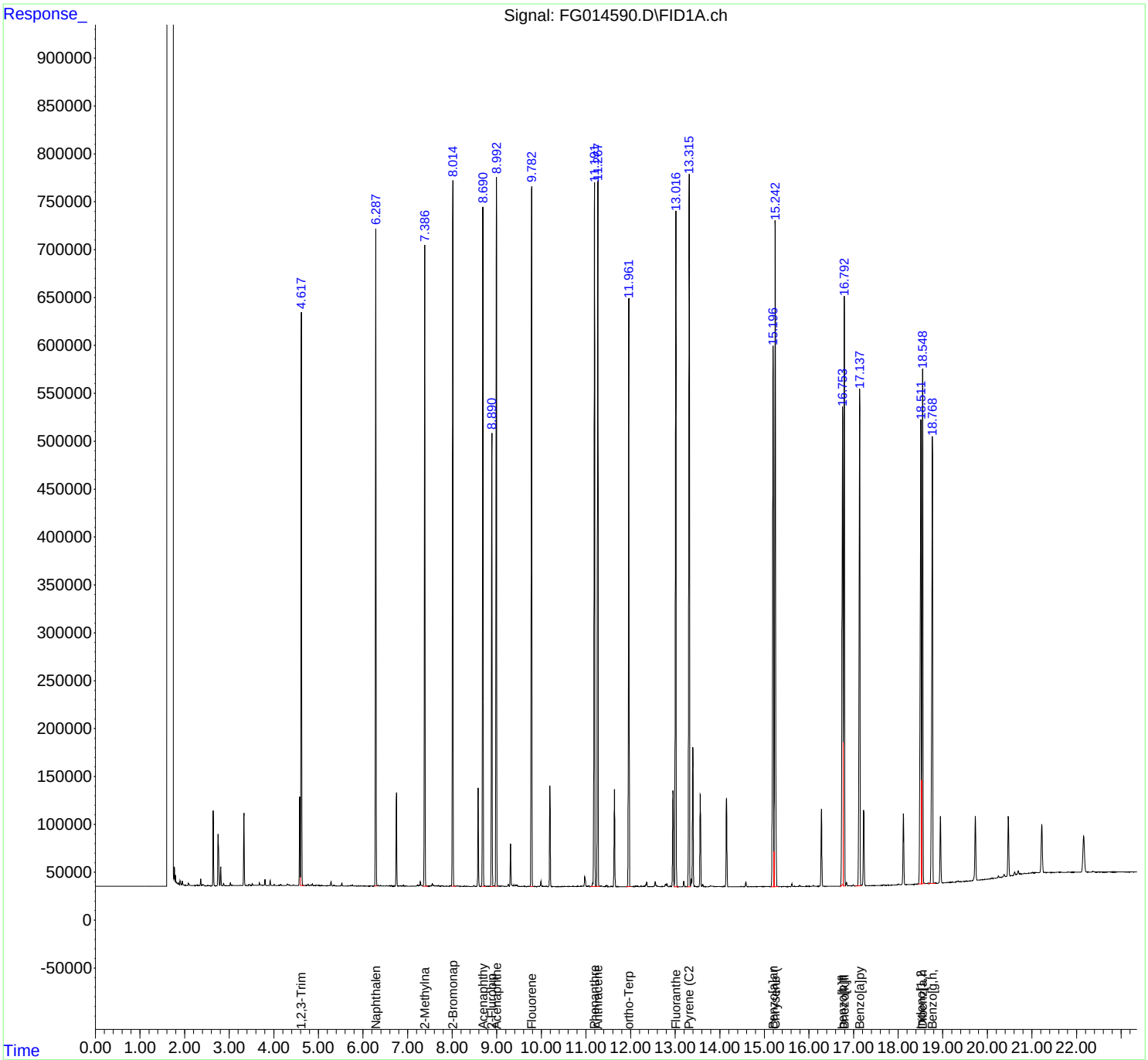
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG103024AR\
Data File : FG014590.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:14
Operator : YP\AJ
Sample : PB164532BSD
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 31 06:45:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_G
ClientSampleId :
PB164532BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/31/2024
Supervised By :Ankita Jodhani 11/04/2024



12

Instrument :
FID_G
ClientSampleId :
PB164532BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/31/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG10302
Data File : FG014590.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2024 00:14
Sample : PB164532BSD
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aromatic EPH 102124.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.617	4.597	4.688	VB	598830	5773614	63.81%	3.712%
2	6.287	6.255	6.323	BV	687468	6621449	73.18%	4.257%
3	7.386	7.345	7.461	VB	663940	6583952	72.76%	4.233%
4	8.014	7.981	8.081	VV	739173	7189766	79.46%	4.622%
5	8.690	8.655	8.758	BV	714437	7131290	78.81%	4.584%
6	8.890	8.851	8.918	BV	479397	4787719	52.91%	3.078%
7	8.992	8.957	9.021	VV	734052	7548348	83.42%	4.852%
8	9.782	9.738	9.818	BB	730572	7910958	87.43%	5.086%
9	11.191	11.098	11.228	BV	735250	8233263	90.99%	5.293%
10	11.267	11.228	11.318	PV	746292	8267723	91.37%	5.315%
11	11.961	11.895	12.011	BV	615617	6721823	74.29%	4.321%
12	13.015	12.977	13.081	VB	697920	8303698	91.77%	5.338%
13	13.315	13.268	13.341	BV	744965	8737736	96.56%	5.617%
14	15.196	15.145	15.215	BV	562127	7988678	88.29%	5.136%
15	15.242	15.215	15.311	VB	687695	9048683	100.00%	5.817%
16	16.753	16.685	16.770	BV	502299	7830829	86.54%	5.034%
17	16.791	16.770	16.819	VV	616097	7626120	84.28%	4.902%
18	17.136	17.031	17.166	BV	515980	7321177	80.91%	4.706%
19	18.510	18.451	18.525	BV	495400	7899298	87.30%	5.078%
20	18.548	18.525	18.608	VB	540093	7054338	77.96%	4.535%
21	18.767	18.665	18.841	BB	472421	6975766	77.09%	4.484%
			Sum of corrected areas:			155556227		

Aromatic EPH 102124.M Thu Oct 31 07:09:06 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067573.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 20:30
Operator : YP/AJ
Sample : P4578-05MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-BOTMS

Integration File: autoint1.e
Quant Time: Nov 01 00:20:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
12)	S 1-chlorooctadecane (S...	12.933	5150146	47.692	ug/ml
Spiked Amount	50.000		Recovery =	95.38%	
	Target Compounds				
1)	T n-Nonane (C9)	3.275	3588458	26.636	ug/ml
2)	T n-Decane (C10)	4.339	4576776	33.592	ug/ml
4)	T n-Dodecane (C12)	6.354	5639381	41.637	ug/ml
6)	T n-Tetradecane (C14)	8.146	6161613	46.942	ug/ml
7)	T n-Hexadecane (C16)	9.745	6335580	47.959	ug/ml
8)	T n-Octadecane (C18)	11.185	6518627	49.341	ug/ml
10)	T n-Eicosane (C20)	12.492	6559385	51.985	ug/ml
11)	T n-Heneicosane (C21)	13.102	6325991	51.258	ug/ml
13)	T n-Docosane (C22)	13.687	6296848	51.424	ug/ml
14)	T n-Tetracosane (C24)	14.788	6241989	51.497	ug/ml
15)	T n-Hexacosane (C26)	15.807	6150040	51.657	ug/ml
16)	T n-Octacosane (C28)	16.755	6076136	51.647	ug/ml
17)	T n-Tricontane (C30)	17.641	6097535	50.447	ug/ml
18)	T n-Dotriacontane (C32)	18.473	6034110	50.998	ug/ml
19)	T n-Tetratriacontane (C34)	19.254	5996134	57.255	ug/ml
20)	T n-Hexatriacontane (C36)	19.992	5850157	64.268	ug/ml
21)	T n-Octatriacontane (C38)	20.715	5856774	67.628	ug/ml
22)	T n-Tetracontane (C40)	21.598	5803374	68.266	ug/ml

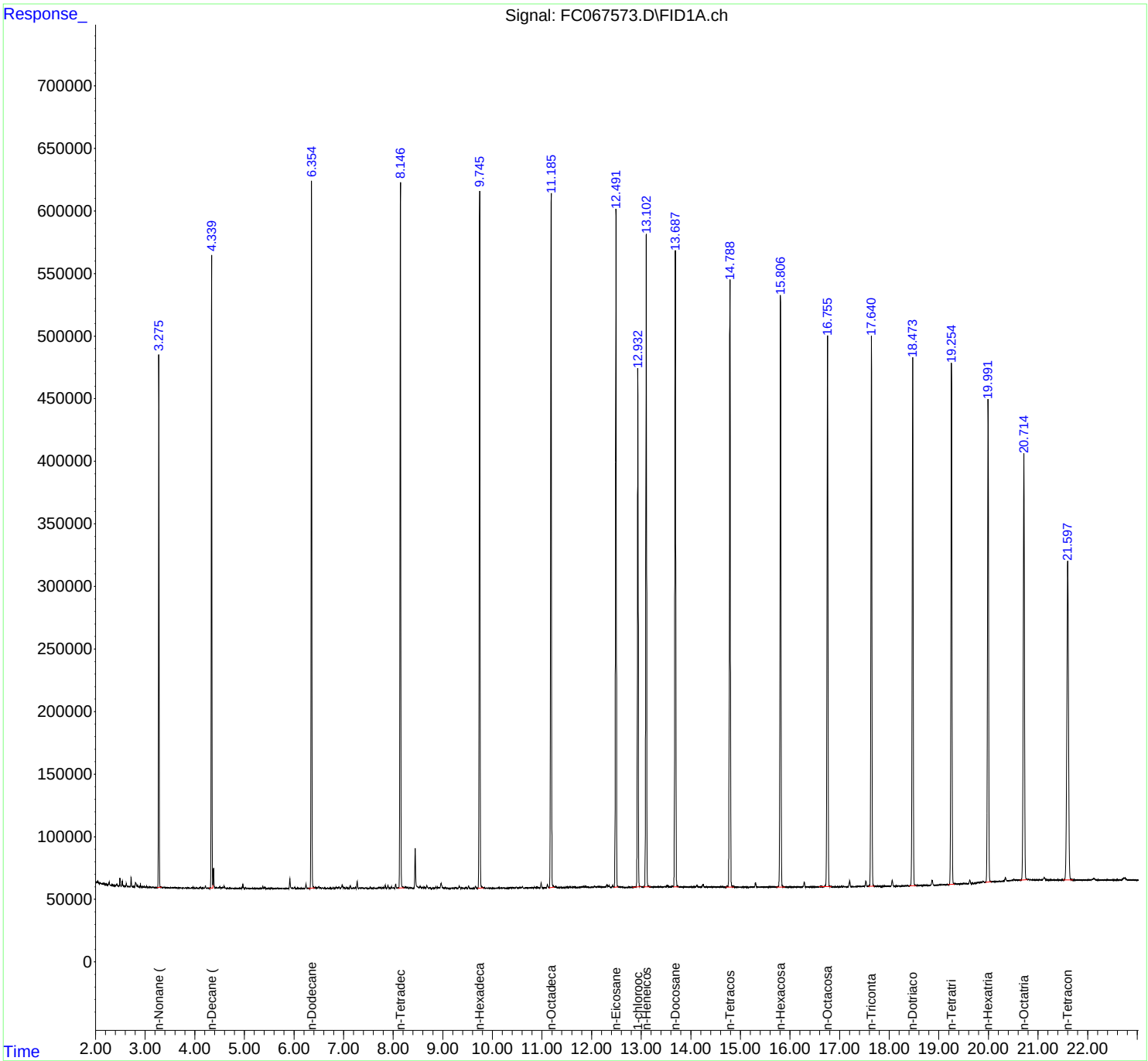
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067573.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 20:30
Operator : YP/AJ
Sample : P4578-05MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-BOTMS

Integration File: autoint1.e
Quant Time: Nov 01 00:20:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067573.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 20:30
Sample : P4578-05MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.275	3.245	3.328	BB	425498	3588458	54.71%	3.189%
2	4.339	4.283	4.364	BV	503771	4576776	69.77%	4.067%
3	4.379	4.364	4.425	VB	15947	154844	2.36%	0.138%
4	4.970	4.898	5.000	BV	3403	42055	0.64%	0.037%
5	5.918	5.873	5.952	BB	7709	75935	1.16%	0.067%
6	6.243	6.188	6.265	BB	3362	32154	0.49%	0.029%
7	6.354	6.288	6.418	BV	563417	5639381	85.97%	5.011%
8	7.275	7.198	7.300	BB	5478	62594	0.95%	0.056%
9	8.051	7.985	8.073	VB	3279	42095	0.64%	0.037%
10	8.146	8.097	8.222	BV	565169	6161613	93.94%	5.475%
11	8.445	8.402	8.520	BB	31961	368861	5.62%	0.328%
12	8.966	8.885	9.008	VB	3954	87075	1.33%	0.077%
13	9.745	9.698	9.827	BB	556233	6335580	96.59%	5.630%
14	10.985	10.873	11.018	BB	3927	51437	0.78%	0.046%
15	11.185	11.143	11.250	PV	551855	6518627	99.38%	5.792%
16	12.492	12.447	12.538	PB	542977	6559385	100.00%	5.828%
17	12.933	12.828	12.997	BB	412505	5150146	78.52%	4.576%
18	13.102	13.038	13.183	BB	521141	6325991	96.44%	5.621%
19	13.687	13.648	13.757	VB	507348	6296848	96.00%	5.595%
20	14.788	14.698	14.870	BB	487064	6241989	95.16%	5.546%
21	15.305	15.245	15.342	BB	3612	49875	0.76%	0.044%
22	15.807	15.723	15.897	BB	471356	6150040	93.76%	5.465%
23	16.286	16.230	16.313	BB	4120	55604	0.85%	0.049%
24	16.755	16.585	16.832	BB	440372	6076136	92.63%	5.399%
25	17.201	17.153	17.247	BB	4751	67381	1.03%	0.060%
26	17.529	17.473	17.567	BB	4280	58667	0.89%	0.052%
27	17.641	17.575	17.707	BB	438535	6097535	92.96%	5.418%
28	18.059	18.005	18.102	BB	4758	68887	1.05%	0.061%
29	18.473	18.398	18.550	BB	424008	6034110	91.99%	5.362%
30	18.865	18.810	18.913	BB	4166	65603	1.00%	0.058%
31	19.254	19.180	19.318	BV	415510	5996134	91.41%	5.328%
32	19.992	19.937	20.062	BB	382817	5850157	89.19%	5.198%
33	20.715	20.632	20.790	BB	341490	5856774	89.29%	5.204%
34	21.598	21.503	21.707	BB	253599	5803374	88.47%	5.157%

Sum of corrected areas: 112542121

rteres
Aliphatic EPH 102324.M Fri Nov 01 00:50:54 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048630.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 21:43
Operator : YP/AJ
Sample : P4578-05MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-305-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 01 01:03:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.373	7467714	49.201 ug/ml
	Spiked Amount 50.000		Recovery =	98.40%
6)	S 2-Flurobiphenyl (SURR)	8.222	4620375	47.055 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	94.11%
11)	S ortho-Terphenyl (SURR)	11.257	5863949	34.425 ug/ml
	Spiked Amount 50.000		Recovery =	68.85%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.194	4920301	28.282 ug/mlm
2)	T Naphthalene (C11.7)	5.713	5815643	32.593 ug/ml
3)	T 2-Methylnaphthalene (...	6.759	5810207	32.484 ug/ml
5)	T Acenaphthylene (C15.06)	8.025	6665482	37.960 ug/ml
7)	T Acenaphthene (C15.5)	8.320	7005740	39.499 ug/ml
8)	T Flouorene (C16.55)	9.098	6908004	40.867 ug/ml
9)	T Phenanthrene (C19.36)	10.485	6804222	41.161 ug/ml
10)	T Anthracene (C19.43)	10.561	6798493	42.514 ug/ml
12)	T Fluoranthene (C21.85)	12.290	6834101	41.525 ug/mlm
13)	T Pyrene (C20.8)	12.583	6661281	41.355 ug/ml
14)	T Benzo[a]anthracene (C...	14.452	6331006	43.299 ug/ml
15)	T Chrysene (C27.41)	14.495	6394235	38.873 ug/ml
16)	T benzo[b]fluoranthene ...	16.000	6351512	41.778 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.034	6387963	42.500 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.376	6146235	40.840 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.742	6480771	49.669 ug/ml
20)	T Dibenz[a,h]anthracene...	17.779	6359196	39.077 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.994	6256988	40.871 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

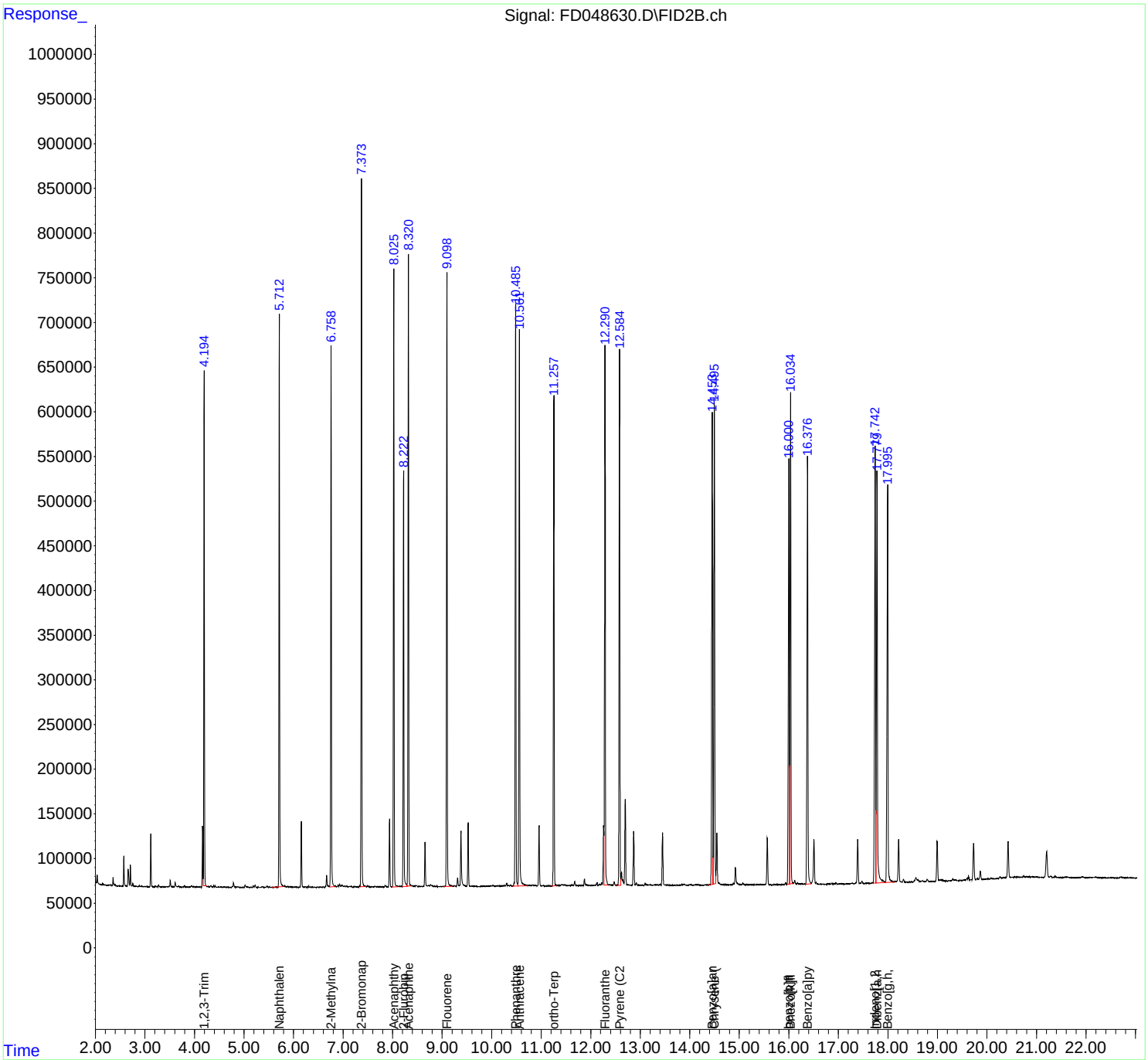
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048630.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 21:43
Operator : YP/AJ
Sample : P4578-05MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 01:03:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
WB-305-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



12

Instrument :
FID_D
ClientSampleId :
WB-305-BOTMS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10302
Data File : FD048630.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 21:43
Sample : P4578-05MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.195	4.161	4.259	BV	537845	3632930	48.30%	2.540%
2	4.788	4.738	4.826	PV	4980	67818	0.90%	0.047%
3	5.713	5.571	5.808	BV	634676	5815643	77.32%	4.066%
4	6.158	6.081	6.225	BB	73852	716035	9.52%	0.501%
5	6.669	6.621	6.725	BV	13499	163845	2.18%	0.115%
6	6.759	6.725	6.841	VV	603227	5810207	77.25%	4.063%
7	7.373	7.343	7.468	VV	779970	7467714	99.28%	5.222%
8	7.939	7.908	7.978	PV	76181	754644	10.03%	0.528%
9	8.025	7.978	8.115	VV	691711	6665482	88.62%	4.661%
10	8.222	8.195	8.290	PV	462456	4620375	61.43%	3.231%
11	8.320	8.290	8.381	VV	711098	7005740	93.14%	4.899%
12	8.656	8.598	8.708	PV	49406	502247	6.68%	0.351%
13	9.098	9.039	9.228	VB	684745	6908004	91.84%	4.830%
14	9.314	9.291	9.344	PV	9679	113990	1.52%	0.080%
15	9.381	9.344	9.487	VV	61950	781494	10.39%	0.546%
16	9.527	9.487	9.571	VV	70941	750633	9.98%	0.525%
17	10.485	10.421	10.528	BV	649811	6804222	90.46%	4.758%
18	10.561	10.528	10.728	VV	624476	6798493	90.39%	4.754%
19	10.959	10.925	11.005	BV	67627	745433	9.91%	0.521%
20	11.257	11.201	11.316	BV	549316	5863949	77.96%	4.100%
21	11.677	11.645	11.741	BV	4586	61906	0.82%	0.043%
22	11.874	11.741	11.938	PV	7264	110824	1.47%	0.077%
23	12.224	12.194	12.235	VV	3554	42932	0.57%	0.030%
24	12.290	12.235	12.415	VV	610082	7521534	100.00%	5.259%
25	12.474	12.454	12.511	VV	3886	45511	0.61%	0.032%
26	12.583	12.511	12.609	PV	606486	6661281	88.56%	4.658%
27	12.622	12.609	12.639	VV	14351	178298	2.37%	0.125%
28	12.647	12.639	12.671	VV	6038	79772	1.06%	0.056%
29	12.697	12.671	12.765	VB	95563	1124069	14.94%	0.786%
30	12.868	12.788	12.901	BV	60001	698857	9.29%	0.489%
31	13.450	13.420	13.518	PB	58722	717136	9.53%	0.501%
32	14.452	14.372	14.471	PV	525244	6331006	84.17%	4.427%
33	14.495	14.471	14.524	VV	537493	6394235	85.01%	4.471%
34	14.547	14.524	14.578	VV	56355	730318	9.71%	0.511%
35	14.920	14.895	15.041	VV	19268	308209	4.10%	0.216%
36	15.563	15.506	15.598	VV	52689	676240	8.99%	0.473%

12

Instrument :
FID_D
ClientSampleId :
WB-305-BOTMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

rteres

37	16.000	15.961	16.015	BV	481175	6351512	84.44%	4.441%
38	16.034	16.015	16.091	VV	554086	6387963	84	
39	16.376	16.334	16.450	PV	473295	6146235	81	
40	16.506	16.450	16.535	VV	49466	701607	9	
41	17.389	17.331	17.445	BV	49297	659107	8	
42	17.742	17.701	17.757	BV	483918	6480771	86	
43	17.779	17.757	17.948	VV	453108	6359196	84.55%	4.447%
44	17.994	17.948	18.131	VV	448767	6256988	83.19%	4.375%

Sum of corrected areas: 143014406

Aromatic EPH 102324.M Fri Nov 01 01:39:05 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067574.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 21:06
Operator : YP/AJ
Sample : P4578-05MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-BOTMSD

Integration File: autoint1.e
Quant Time: Nov 01 00:20:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.933	4987072	46.182 ug/ml
Spiked Amount	50.000		Recovery =	92.36%
	Target Compounds			
1) T	n-Nonane (C9)	3.275	3583741	26.601 ug/ml
2) T	n-Decane (C10)	4.339	4576776	33.592 ug/ml
4) T	n-Dodecane (C12)	6.354	5664956	41.826 ug/ml
6) T	n-Tetradecane (C14)	8.147	6195924	47.203 ug/ml
7) T	n-Hexadecane (C16)	9.744	6381001	48.303 ug/ml
8) T	n-Octadecane (C18)	11.184	6570545	49.734 ug/ml
10) T	n-Eicosane (C20)	12.491	6603946	52.339 ug/ml
11) T	n-Heneicosane (C21)	13.102	6361095	51.542 ug/ml
13) T	n-Docosane (C22)	13.687	6331125	51.704 ug/ml
14) T	n-Tetracosane (C24)	14.789	6268169	51.713 ug/ml
15) T	n-Hexacosane (C26)	15.806	6179214	51.902 ug/ml
16) T	n-Octacosane (C28)	16.755	6106098	51.902 ug/ml
17) T	n-Tricontane (C30)	17.641	6126409	50.685 ug/ml
18) T	n-Dotriacontane (C32)	18.472	6057137	51.193 ug/ml
19) T	n-Tetratriacontane (C34)	19.254	6020511	57.487 ug/ml
20) T	n-Hexatriacontane (C36)	19.993	5879259	64.588 ug/ml
21) T	n-Octatriacontane (C38)	20.714	5889140	68.002 ug/ml
22) T	n-Tetracontane (C40)	21.597	5838613	68.681 ug/ml

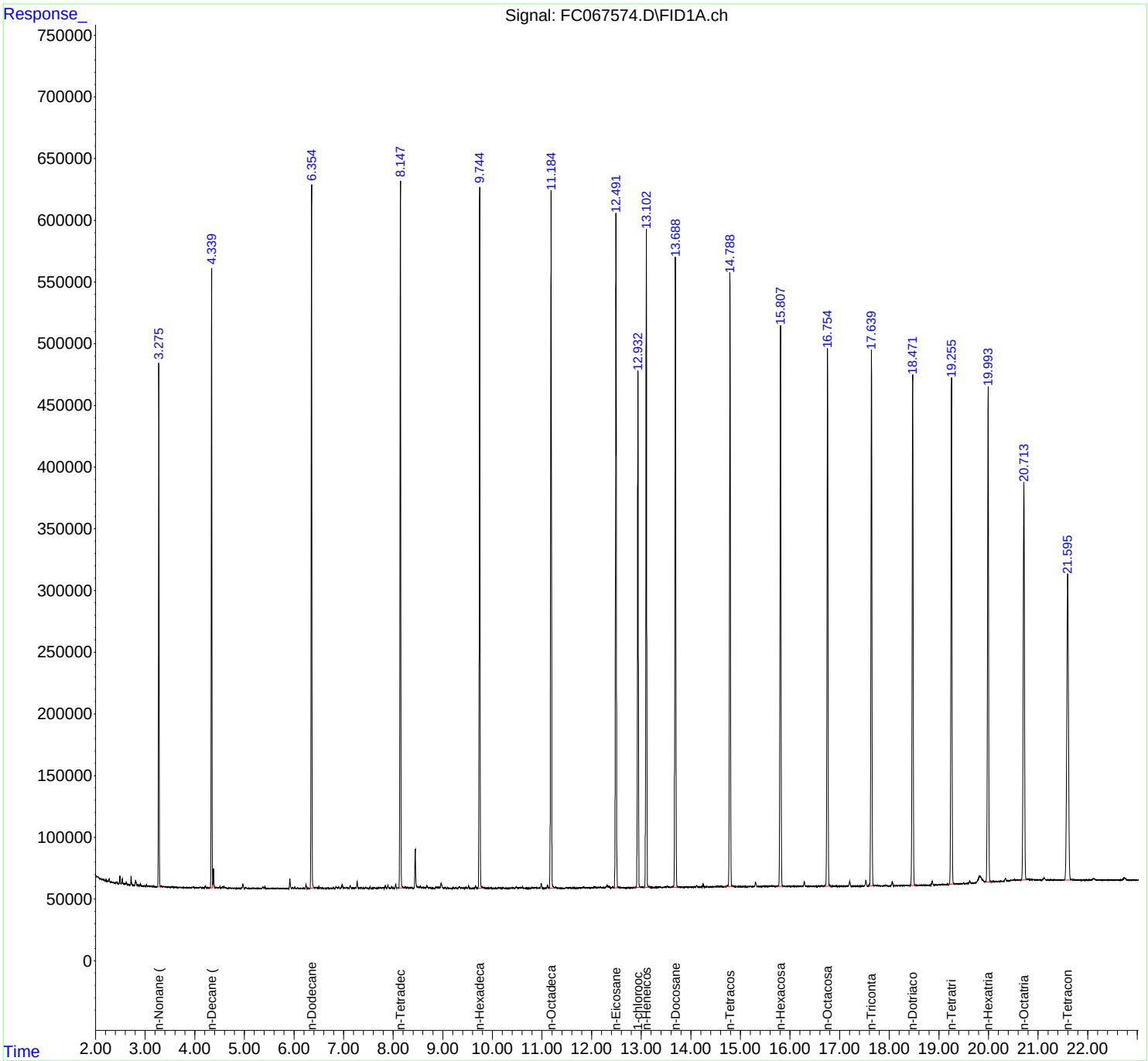
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067574.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 21:06
Operator : YP/AJ
Sample : P4578-05MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-305-BOTMSD

Integration File: autoint1.e
Quant Time: Nov 01 00:20:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103024AL\
Data File : FC067574.D
Signal(s) : FID1A.ch
Acq On : 30 Oct 2024 21:06
Sample : P4578-05MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.275	3.245	3.340	BB	424353	3583741	54.27%	3.172%
2	4.339	4.282	4.364	BV	500623	4576776	69.30%	4.051%
3	4.379	4.364	4.424	VB	15602	153387	2.32%	0.136%
4	4.970	4.914	5.005	BB	3372	42809	0.65%	0.038%
5	5.918	5.869	5.950	BB	7716	75472	1.14%	0.067%
6	6.354	6.292	6.424	BV	573219	5664956	85.78%	5.014%
7	7.275	7.225	7.302	BB	5453	59658	0.90%	0.053%
8	8.147	8.085	8.215	BV	572690	6195924	93.82%	5.484%
9	8.445	8.404	8.519	BB	31519	369876	5.60%	0.327%
10	8.966	8.890	9.019	BB	3834	80260	1.22%	0.071%
11	9.744	9.704	9.827	BB	567431	6381001	96.62%	5.648%
12	10.984	10.934	11.029	BB	3896	43959	0.67%	0.039%
13	11.184	11.142	11.257	PV	565124	6570545	99.49%	5.816%
14	12.491	12.450	12.540	PB	543923	6603946	100.00%	5.845%
15	12.933	12.837	12.985	BB	414719	4987072	75.52%	4.414%
16	13.102	13.042	13.177	BB	533216	6361095	96.32%	5.630%
17	13.687	13.648	13.760	VB	505812	6331125	95.87%	5.604%
18	14.789	14.689	14.860	BB	494107	6268169	94.92%	5.548%
19	15.304	15.247	15.335	BB	3616	49771	0.75%	0.044%
20	15.806	15.724	15.884	BB	449028	6179214	93.57%	5.469%
21	16.286	16.234	16.325	BB	4013	53434	0.81%	0.047%
22	16.755	16.672	16.839	BB	433458	6106098	92.46%	5.405%
23	17.201	17.147	17.242	BB	3618	57167	0.87%	0.051%
24	17.528	17.475	17.557	BB	4555	61323	0.93%	0.054%
25	17.641	17.574	17.709	BB	432109	6126409	92.77%	5.423%
26	18.059	18.000	18.100	BB	3510	54321	0.82%	0.048%
27	18.472	18.397	18.547	BB	412476	6057137	91.72%	5.361%
28	19.254	19.177	19.320	BB	401798	6020511	91.17%	5.329%
29	19.835	19.717	19.932	BB	5041	258339	3.91%	0.229%
30	19.993	19.934	20.072	BB	399395	5879259	89.03%	5.204%
31	20.714	20.630	20.787	BB	320124	5889140	89.18%	5.213%
32	21.597	21.500	21.705	BB	242299	5838613	88.41%	5.168%

Sum of corrected areas: 112980507

Aliphatic EPH 102324.M Fri Nov 01 00:51:06 2024

Page 1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048631.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 22:20
Operator : YP/AJ
Sample : P4578-05MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-305-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 01 01:03:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.373	7428124	48.940 ug/ml
Spiked Amount	50.000		Recovery =	97.88%
6) S	2-Flurobiphenyl (SURR)	8.222	4605008	46.898 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	93.80%
11) S	ortho-Terphenyl (SURR)	11.258	5828387	34.216 ug/ml
Spiked Amount	50.000		Recovery =	68.43%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.195	4951664	28.463 ug/mlm
2) T	Naphthalene (C11.7)	5.713	5802621	32.520 ug/ml
3) T	2-Methylnaphthalene (...	6.759	5809667	32.481 ug/ml
5) T	Acenaphthylene (C15.06)	8.025	6631639	37.767 ug/ml
7) T	Acenaphthene (C15.5)	8.320	7008837	39.517 ug/ml
8) T	Flouorene (C16.55)	9.098	6889852	40.759 ug/ml
9) T	Phenanthrene (C19.36)	10.485	6768309	40.944 ug/ml
10) T	Anthracene (C19.43)	10.561	6759963	42.274 ug/ml
12) T	Fluoranthene (C21.85)	12.289	6805632	41.352 ug/mlm
13) T	Pyrene (C20.8)	12.582	6620367	41.101 ug/ml
14) T	Benzo[a]anthracene (C...	14.452	6296550	43.064 ug/ml
15) T	Chrysene (C27.41)	14.494	6356666	38.644 ug/ml
16) T	benzo[b]fluoranthene ...	16.000	6323648	41.595 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.033	6345911	42.221 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.374	6123850	40.691 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.742	6434736	49.317 ug/ml
20) T	Dibenz[a,h]anthracene...	17.779	6327753	38.884 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.994	6206877	40.543 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

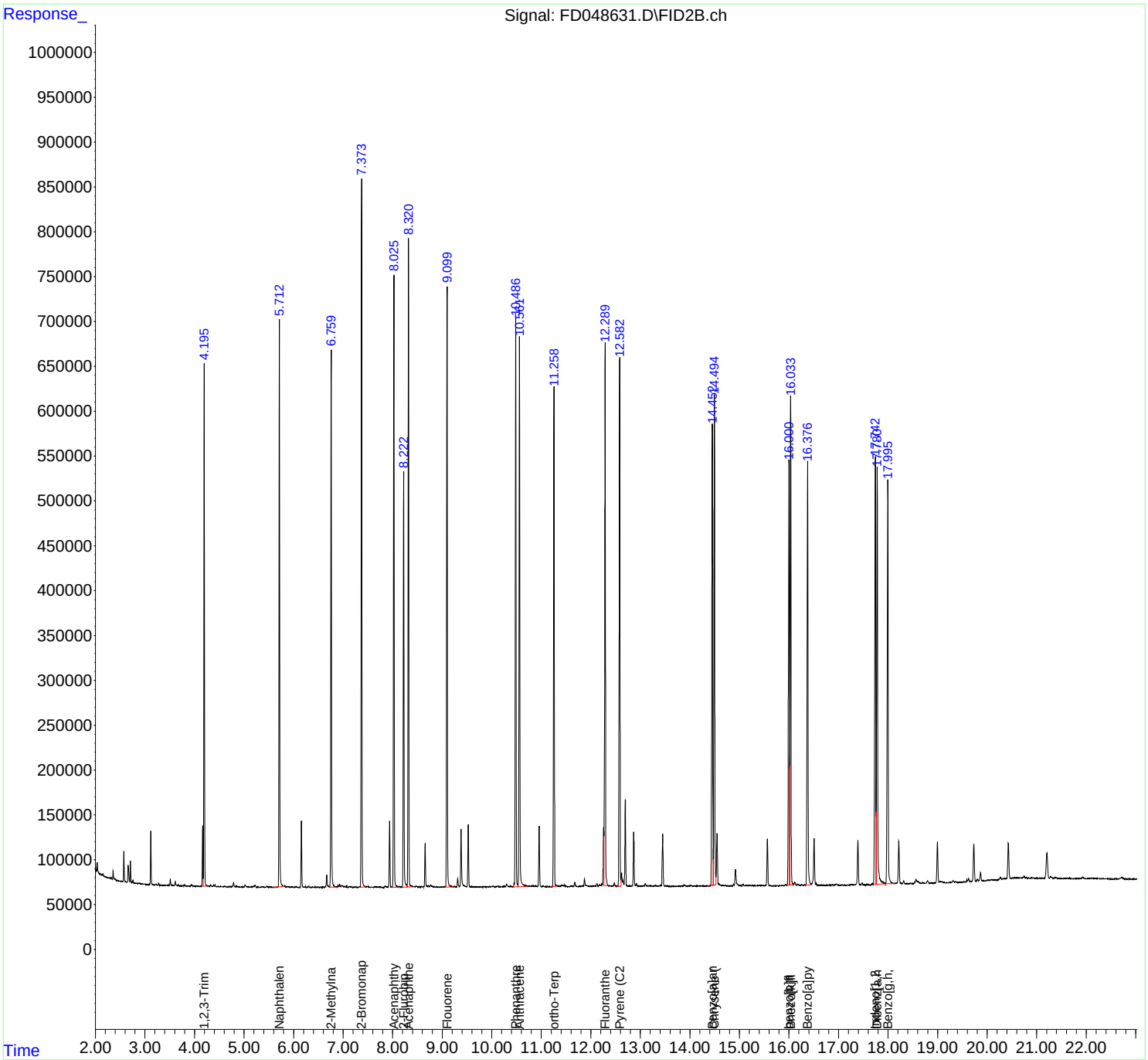
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD103024AR\
Data File : FD048631.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 22:20
Operator : YP/AJ
Sample : P4578-05MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-305-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 01 01:03:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



12

Instrument :
FID_D
ClientSampleId :
WB-305-BOTMSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10302
Data File : FD048631.D
Signal(s) : FID2B.ch
Acq On : 30 Oct 2024 22:20
Sample : P4578-05MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.195	4.161	4.294	BB	537675	3077306	41.28%	2.171%
2	4.788	4.731	4.826	BV	4766	62201	0.83%	0.044%
3	5.713	5.588	5.808	BV	623821	5802621	77.83%	4.093%
4	6.158	6.094	6.194	BB	74241	709891	9.52%	0.501%
5	6.669	6.624	6.724	BV	13729	170690	2.29%	0.120%
6	6.759	6.724	6.881	VV	594112	5809667	77.93%	4.098%
7	7.373	7.343	7.458	VV	790602	7428124	99.63%	5.239%
8	7.939	7.914	7.978	BV	73146	749438	10.05%	0.529%
9	8.025	7.978	8.109	VV	675150	6631639	88.95%	4.678%
10	8.222	8.193	8.290	PV	459859	4605008	61.77%	3.248%
11	8.320	8.290	8.413	VV	727286	7008837	94.01%	4.944%
12	8.656	8.599	8.704	VV	48802	515529	6.91%	0.364%
13	9.098	9.037	9.241	VV	661138	6889852	92.41%	4.860%
14	9.314	9.277	9.342	PV	9390	114445	1.54%	0.081%
15	9.382	9.342	9.498	VV	64470	791606	10.62%	0.558%
16	9.527	9.498	9.581	VV	69893	746906	10.02%	0.527%
17	10.485	10.414	10.529	PV	628842	6768309	90.78%	4.774%
18	10.561	10.529	10.727	VV	614835	6759963	90.67%	4.768%
19	10.958	10.917	11.001	PV	66968	742651	9.96%	0.524%
20	11.258	11.183	11.318	PV	554093	5828387	78.18%	4.111%
21	11.677	11.648	11.731	BB	4705	59799	0.80%	0.042%
22	11.874	11.850	11.938	VV	8163	112608	1.51%	0.079%
23	12.289	12.234	12.381	VV	595700	7455411	100.00%	5.259%
24	12.475	12.453	12.513	VV	3813	45922	0.62%	0.032%
25	12.582	12.513	12.609	PV	586770	6620367	88.80%	4.670%
26	12.622	12.609	12.639	VV	14599	177934	2.39%	0.126%
27	12.647	12.639	12.669	VV	6011	76294	1.02%	0.054%
28	12.697	12.669	12.764	VB	96071	1116356	14.97%	0.787%
29	12.867	12.784	12.901	BV	60080	697699	9.36%	0.492%
30	13.450	13.420	13.524	VB	58053	711563	9.54%	0.502%
31	14.452	14.369	14.471	PV	511900	6296550	84.46%	4.441%
32	14.494	14.471	14.524	VV	548671	6356666	85.26%	4.484%
33	14.546	14.524	14.577	VV	56974	727327	9.76%	0.513%
34	14.920	14.894	15.044	VV	18407	309150	4.15%	0.218%
35	15.562	15.505	15.594	PB	52158	667257	8.95%	0.471%
36	16.000	15.961	16.014	BV	477402	6323648	84.82%	4.460%

12

Instrument :
FID_D
ClientSampleId :
WB-305-BOTMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

rteres

37	16.033	16.014	16.094	VV	550488	6345911	85.12%	4.476%
38	16.374	16.333	16.453	PV	473230	6123850	82	
39	16.505	16.453	16.534	VV	51362	700075	9	
40	17.389	17.304	17.448	VV	49646	667027	8	
41	17.742	17.701	17.758	BV	470350	6434736	86	
42	17.779	17.758	17.951	VV	468457	6327753	84	
43	17.994	17.951	18.128	VV	449969	6206877	83.25%	4.378%

Sum of corrected areas: 141773850

Aromatic EPH 102324.M Fri Nov 01 01:39:17 2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	FC102324AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	FC103024AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164528BS	FC067566.D	n-Tetracosane (C24)	Yogesh	11/4/2024 9:39:38 AM	Ankita	11/4/2024 9:47:53	Peak Integrated by Software
PB164528BSD	FC067567.D	n-Tetracosane (C24)	Yogesh	11/4/2024 9:39:39 AM	Ankita	11/4/2024 9:47:54	Peak Integrated by Software
P4598-01MS	FC067582.D	n-Tetracosane (C24)	Yogesh	11/4/2024 9:39:40 AM	Ankita	11/4/2024 9:47:56	Peak Integrated by Software
P4598-01MSD	FC067583.D	n-Tetracosane (C24)	Yogesh	11/4/2024 9:39:41 AM	Ankita	11/4/2024 9:47:57	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD102324AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	FD103024AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164525BS	FD048624.D	1,2,3-Trimethylbenzene (C10.1)	Yogesh	11/4/2024 9:39:56 AM	Ankita	11/4/2024 9:48:23	Peak Integrated by Software
PB164525BS	FD048624.D	Fluoranthene (C21.85)	Yogesh	11/4/2024 9:39:56 AM	Ankita	11/4/2024 9:48:23	Peak Integrated by Software
PB164525BSD	FD048625.D	1,2,3-Trimethylbenzene (C10.1)	Yogesh	11/4/2024 9:39:57 AM	Ankita	11/4/2024 9:48:25	Peak Integrated by Software
PB164525BSD	FD048625.D	Fluoranthene (C21.85)	Yogesh	11/4/2024 9:39:57 AM	Ankita	11/4/2024 9:48:25	Peak Integrated by Software
P4578-03	FD048626.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:39:59 AM	Ankita	11/4/2024 9:48:26	Peak Integrated by Software
P4578-05MS	FD048630.D	1,2,3-Trimethylbenzene (C10.1)	Yogesh	11/4/2024 9:40:00 AM	Ankita	11/4/2024 9:48:28	Peak Integrated by Software
P4578-05MS	FD048630.D	Fluoranthene (C21.85)	Yogesh	11/4/2024 9:40:00 AM	Ankita	11/4/2024 9:48:28	Peak Integrated by Software
P4578-05MSD	FD048631.D	1,2,3-Trimethylbenzene (C10.1)	Yogesh	11/4/2024 9:40:03 AM	Ankita	11/4/2024 9:48:29	Peak Integrated by Software
P4578-05MSD	FD048631.D	Fluoranthene (C21.85)	Yogesh	11/4/2024 9:40:03 AM	Ankita	11/4/2024 9:48:29	Peak Integrated by Software
P4578-07	FD048632.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:40:05 AM	Ankita	11/4/2024 9:48:30	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE100824AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
10 PPM ALIPHATIC HC	FE050538.D	n-Octatriacontane (C38)	yogesh	10/8/2024 8:01:13 AM	Ankita	10/8/2024 9:52:52	Peak Integrated by Software
5 PPM ALIPHATIC HC	FE050539.D	n-Tetracontane (C40)	yogesh	10/8/2024 8:01:15 AM	Ankita	10/8/2024 9:52:53	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE103024AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE050899.D	n-Docosane (C22)	yogesh	10/31/2024 12:13:48 PM	Ankita	11/4/2024 9:21:58	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050899.D	n-Hexatriacontane (C36)	yogesh	10/31/2024 12:13:48 PM	Ankita	11/4/2024 9:21:58	Peak Integrated by Software
P4598-09	FE050902.D	1-chlorooctadecane (SURR)	yogesh	10/31/2024 12:13:49 PM	Ankita	11/4/2024 9:22:01	Peak Integrated by Software
P4598-10	FE050903.D	1-chlorooctadecane (SURR)	yogesh	10/31/2024 12:13:51 PM	Ankita	11/4/2024 9:22:03	Peak Integrated by Software
P4612-05	FE050914.D	1-chlorooctadecane (SURR)	yogesh	10/31/2024 12:13:52 PM	Ankita	11/4/2024 9:22:05	Peak Integrated by Software
P4599-02	FE050923.D	1-chlorooctadecane (SURR)	yogesh	10/31/2024 12:13:54 PM	Ankita	11/4/2024 9:22:06	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050932.D	n-Docosane (C22)	yogesh	11/1/2024 10:05:36 AM	Ankita	11/4/2024 9:22:07	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050932.D	n-Hexatriacontane (C36)	yogesh	11/1/2024 10:05:36 AM	Ankita	11/4/2024 9:22:07	Peak Integrated by Software

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Manual Integration Report

Sequence:	FG102124AR	Instrument	FID_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
100 PPM AROMATIC HC	FG014461.D	Bnezo[k]fluoranthene (C30.14)	yogesh	10/22/2024 8:17:04 AM	Ankita	10/22/2024 8:59:15	Peak Integrated by Software
100 PPM AROMATIC HC	FG014461.D	Dibenz[a,h]anthracene (C30.36)	yogesh	10/22/2024 8:17:04 AM	Ankita	10/22/2024 8:59:15	Peak Integrated by Software

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Manual Integration Report

Sequence:	FG103024AR	Instrument	FID_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FG014576.D	Benzo[a]anthracene (C26.37)	yogesh	10/31/2024 12:14:47 PM	Ankita	11/4/2024 9:22:51	Peak Integrated by Software
20 PPM AROMATIC HC	FG014576.D	benzo[b]fluoranthene (C30.41)	yogesh	10/31/2024 12:14:47 PM	Ankita	11/4/2024 9:22:51	Peak Integrated by Software
20 PPM AROMATIC HC	FG014576.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	10/31/2024 12:14:47 PM	Ankita	11/4/2024 9:22:51	Peak Integrated by Software
P4599-01	FG014577.D	2-Bromonaphthalene (SURR)	yogesh	10/31/2024 12:14:49 PM	Ankita	11/4/2024 9:22:52	Peak Integrated by Software
P4599-01	FG014577.D	ortho-Terphenyl (SURR)	yogesh	10/31/2024 12:14:49 PM	Ankita	11/4/2024 9:22:52	Peak Integrated by Software
P4599-02	FG014578.D	2-Bromonaphthalene (SURR)	yogesh	10/31/2024 12:14:50 PM	Ankita	11/4/2024 9:22:53	Peak Integrated by Software
P4599-02	FG014578.D	ortho-Terphenyl (SURR)	yogesh	10/31/2024 12:14:50 PM	Ankita	11/4/2024 9:22:53	Peak Integrated by Software
P4599-03	FG014579.D	2-Bromonaphthalene (SURR)	yogesh	10/31/2024 12:14:52 PM	Ankita	11/4/2024 9:22:55	Peak Integrated by Software
P4599-03	FG014579.D	2-Flurobiphenyl (SURR)	yogesh	10/31/2024 12:14:52 PM	Ankita	11/4/2024 9:22:55	Peak Integrated by Software
P4599-03	FG014579.D	ortho-Terphenyl (SURR)	yogesh	10/31/2024 12:14:52 PM	Ankita	11/4/2024 9:22:55	Peak Integrated by Software
P4599-04	FG014580.D	2-Bromonaphthalene (SURR)	yogesh	10/31/2024 12:14:54 PM	Ankita	11/4/2024 9:22:56	Peak Integrated by Software
P4599-04	FG014580.D	ortho-Terphenyl (SURR)	yogesh	10/31/2024 12:14:54 PM	Ankita	11/4/2024 9:22:56	Peak Integrated by Software
P4599-05	FG014581.D	2-Bromonaphthalene (SURR)	yogesh	10/31/2024 12:14:55 PM	Ankita	11/4/2024 9:22:58	Peak Integrated by Software

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Manual Integration Report

Sequence:	FG103024AR	Instrument	FID_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4599-05	FG014581.D	2-Flurobiphenyl (SURR)	yogesh	10/31/2024 12:14:55 PM	Ankita	11/4/2024 9:22:58	Peak Integrated by Software
P4599-05	FG014581.D	ortho-Terphenyl (SURR)	yogesh	10/31/2024 12:14:55 PM	Ankita	11/4/2024 9:22:58	Peak Integrated by Software
P4599-06	FG014582.D	ortho-Terphenyl (SURR)	yogesh	10/31/2024 12:14:57 PM	Ankita	11/4/2024 9:22:59	Peak Integrated by Software
P4599-08	FG014584.D	ortho-Terphenyl (SURR)	yogesh	10/31/2024 12:14:59 PM	Ankita	11/4/2024 9:23:00	Peak Integrated by Software
P4599-09	FG014585.D	ortho-Terphenyl (SURR)	yogesh	10/31/2024 12:15:00 PM	Ankita	11/4/2024 9:23:02	Peak Integrated by Software
20 PPM AROMATIC HC	FG014587.D	Benzo[a]anthracene (C26.37)	yogesh	10/31/2024 12:15:02 PM	Ankita	11/4/2024 9:23:03	Peak Integrated by Software
20 PPM AROMATIC HC	FG014587.D	benzo[b]fluoranthene (C30.41)	yogesh	10/31/2024 12:15:02 PM	Ankita	11/4/2024 9:23:03	Peak Integrated by Software
20 PPM AROMATIC HC	FG014587.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	10/31/2024 12:15:02 PM	Ankita	11/4/2024 9:23:03	Peak Integrated by Software
PB164532BSD	FG014590.D	benzo[b]fluoranthene (C30.41)	yogesh	10/31/2024 12:15:04 PM	Ankita	11/4/2024 9:23:05	Peak Integrated by Software
20 PPM AROMATIC HC	FG014594.D	Benzo[a]anthracene (C26.37)	yogesh	10/31/2024 12:15:05 PM	Ankita	11/4/2024 9:23:06	Peak Integrated by Software
20 PPM AROMATIC HC	FG014594.D	benzo[b]fluoranthene (C30.41)	yogesh	10/31/2024 12:15:05 PM	Ankita	11/4/2024 9:23:06	Peak Integrated by Software
20 PPM AROMATIC HC	FG014594.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	10/31/2024 12:15:05 PM	Ankita	11/4/2024 9:23:06	Peak Integrated by Software

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Manual Integration Report

Sequence:	FG103024AR	Instrument	FID_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102324AL

Review By	yogesh	Review On	10/23/2024 4:03:24 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:51 AM		
SubDirectory	FC102324AL	HP Acquire Method		HP Processing Method	FC102324AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067504.D	23 Oct 2024 13:59	YP/AJ	Ok
2	I.BLK	FC067505.D	23 Oct 2024 14:35	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC067506.D	23 Oct 2024 15:12	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC067507.D	23 Oct 2024 15:48	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC067508.D	23 Oct 2024 16:25	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC067509.D	23 Oct 2024 17:02	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC067510.D	23 Oct 2024 17:38	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC067511.D	23 Oct 2024 18:14	YP/AJ	Ok
9	I.BLK	FC067512.D	23 Oct 2024 19:27	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC067513.D	23 Oct 2024 20:03	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC103024AL

Review By	yogesh	Review On	10/30/2024 11:27:45 AM		
Supervise By	Ankita	Supervise On	11/4/2024 9:48:01 AM		
SubDirectory	FC103024AL	HP Acquire Method		HP Processing Method	FC102324AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067562.D	30 Oct 2024 10:47	YP/AJ	Ok
2	I.BLK	FC067563.D	30 Oct 2024 11:59	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067564.D	30 Oct 2024 14:26	YP/AJ	Ok
4	PB164528BL	FC067565.D	30 Oct 2024 15:36	YP/AJ	Ok
5	PB164528BS	FC067566.D	30 Oct 2024 16:13	YP/AJ	Ok,M
6	PB164528BSD	FC067567.D	30 Oct 2024 16:50	YP/AJ	Ok,M
7	PB164525BL	FC067568.D	30 Oct 2024 17:27	YP/AJ	Ok
8	PB164525BS	FC067569.D	30 Oct 2024 18:04	YP/AJ	Ok
9	PB164525BSD	FC067570.D	30 Oct 2024 18:41	YP/AJ	Ok
10	P4578-05	FC067571.D	30 Oct 2024 19:18	YP/AJ	Ok
11	P4578-05D	FC067572.D	30 Oct 2024 19:54	YP/AJ	Ok
12	P4578-05MS	FC067573.D	30 Oct 2024 20:30	YP/AJ	Ok
13	P4578-05MSD	FC067574.D	30 Oct 2024 21:06	YP/AJ	Ok
14	I.BLK	FC067575.D	30 Oct 2024 22:20	YP/AJ	Ok
15	20 PPM ALIPHATIC HC STD	FC067576.D	30 Oct 2024 22:56	YP/AJ	Ok
16	P4578-03	FC067577.D	31 Oct 2024 00:08	YP/AJ	Ok
17	P4578-04	FC067578.D	31 Oct 2024 00:45	YP/AJ	Ok
18	P4578-07	FC067579.D	31 Oct 2024 01:21	YP/AJ	Ok
19	P4598-01	FC067580.D	31 Oct 2024 01:57	YP/AJ	Ok
20	P4598-01D	FC067581.D	31 Oct 2024 02:33	YP/AJ	Ok
21	P4598-01MS	FC067582.D	31 Oct 2024 03:09	YP/AJ	Ok,M

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC103024AL

Review By	yogesh	Review On	10/30/2024 11:27:45 AM		
Supervise By	Ankita	Supervise On	11/4/2024 9:48:01 AM		
SubDirectory	FC103024AL	HP Acquire Method		HP Processing Method	FC102324AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4598-01MSD	FC067583.D	31 Oct 2024 03:45	YP/AJ	Ok,M
23	P4598-02	FC067584.D	31 Oct 2024 04:21	YP/AJ	Ok
24	P4598-05	FC067585.D	31 Oct 2024 04:58	YP/AJ	Ok
25	P4598-06	FC067586.D	31 Oct 2024 05:34	YP/AJ	Ok
26	I.BLK	FC067587.D	31 Oct 2024 06:46	YP/AJ	Ok
27	20 PPM ALIPHATIC HC STD	FC067588.D	31 Oct 2024 07:23	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102324AR

Review By	yogesh	Review On	10/23/2024 4:04:27 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:45 AM		
SubDirectory	FD102324AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD048566.D	23 Oct 2024 13:59	YP/AJ	Ok
2	I.BLK	FD048567.D	23 Oct 2024 14:35	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD048568.D	23 Oct 2024 15:12	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD048569.D	23 Oct 2024 15:48	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD048570.D	23 Oct 2024 16:25	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD048571.D	23 Oct 2024 17:02	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD048572.D	23 Oct 2024 17:38	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD048573.D	23 Oct 2024 18:14	YP/AJ	Ok
9	I.BLK	FD048574.D	23 Oct 2024 19:27	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD048575.D	23 Oct 2024 20:03	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD103024AR

Review By	yogesh	Review On	10/30/2024 11:28:50 AM		
Supervise By	Ankita	Supervise On	11/4/2024 9:48:34 AM		
SubDirectory	FD103024AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD048620.D	30 Oct 2024 10:47	YP/AJ	Ok
2	I.BLK	FD048621.D	30 Oct 2024 11:59	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048622.D	30 Oct 2024 14:26	YP/AJ	Ok
4	PB164525BL	FD048623.D	30 Oct 2024 17:27	YP/AJ	Ok
5	PB164525BS	FD048624.D	30 Oct 2024 18:04	YP/AJ	Ok,M
6	PB164525BSD	FD048625.D	30 Oct 2024 18:41	YP/AJ	Ok,M
7	P4578-03	FD048626.D	30 Oct 2024 19:18	YP/AJ	Ok,M
8	P4578-04	FD048627.D	30 Oct 2024 19:54	YP/AJ	Ok
9	P4578-05	FD048628.D	30 Oct 2024 20:30	YP/AJ	Ok
10	P4578-05D	FD048629.D	30 Oct 2024 21:06	YP/AJ	Ok
11	P4578-05MS	FD048630.D	30 Oct 2024 21:43	YP/AJ	Ok,M
12	P4578-05MSD	FD048631.D	30 Oct 2024 22:20	YP/AJ	Ok,M
13	P4578-07	FD048632.D	30 Oct 2024 22:56	YP/AJ	Ok,M
14	I.BLK	FD048633.D	31 Oct 2024 00:08	YP/AJ	Ok
15	20 PPM AROMATIC HC STD	FD048634.D	31 Oct 2024 00:45	YP/AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE100824AL

Review By	yogesh	Review On	10/7/2024 4:16:27 PM		
Supervise By	Ankita	Supervise On	10/8/2024 9:52:58 AM		
SubDirectory	FE100824AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE050533.D	07 Oct 2024 13:05	YP\AJ	Ok
2	I.BLK	FE050534.D	07 Oct 2024 13:36	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE050535.D	07 Oct 2024 14:06	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE050536.D	07 Oct 2024 14:36	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE050537.D	07 Oct 2024 15:06	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE050538.D	07 Oct 2024 15:37	YP\AJ	Ok,M
7	5 PPM ALIPHATIC HC STD5	FE050539.D	07 Oct 2024 16:07	YP\AJ	Ok,M
8	20 PPM ALIPHATIC HC STD ICV	FE050540.D	07 Oct 2024 16:37	YP\AJ	Ok
9	I.BLK	FE050541.D	07 Oct 2024 18:08	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE050542.D	07 Oct 2024 18:39	YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE103024AL

Review By	yogesh	Review On	10/30/2024 11:26:38 AM		
Supervise By	Ankita	Supervise On	11/4/2024 9:22:11 AM		
SubDirectory	FE103024AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE050897.D	30 Oct 2024 09:00	YP\AJ	Ok
2	I.BLK	FE050898.D	30 Oct 2024 11:44	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE050899.D	30 Oct 2024 12:14	YP\AJ	Ok,M
4	P4619-01	FE050900.D	30 Oct 2024 14:58	YP\AJ	Ok
5	P4619-02	FE050901.D	30 Oct 2024 15:28	YP\AJ	Ok
6	P4598-09	FE050902.D	30 Oct 2024 15:58	YP\AJ	Ok,M
7	P4598-10	FE050903.D	30 Oct 2024 16:28	YP\AJ	Dilution
8	P4613-01	FE050904.D	30 Oct 2024 16:59	YP\AJ	Dilution
9	P4614-01	FE050905.D	30 Oct 2024 18:26	YP\AJ	Ok
10	P4614-02	FE050906.D	30 Oct 2024 18:56	YP\AJ	Dilution
11	P4617-01	FE050907.D	30 Oct 2024 19:27	YP\AJ	Ok
12	P4617-02	FE050908.D	30 Oct 2024 19:57	YP\AJ	Ok
13	P4618-01	FE050909.D	30 Oct 2024 20:27	YP\AJ	Ok
14	P4618-02	FE050910.D	30 Oct 2024 20:57	YP\AJ	Ok
15	P4618-03	FE050911.D	30 Oct 2024 21:27	YP\AJ	Ok
16	P4618-04	FE050912.D	30 Oct 2024 21:57	YP\AJ	Ok
17	P4612-03	FE050913.D	30 Oct 2024 22:27	YP\AJ	Dilution
18	P4612-05	FE050914.D	30 Oct 2024 22:57	YP\AJ	Ok,M
19	I.BLK	FE050915.D	30 Oct 2024 23:58	YP\AJ	Ok
20	20 PPM ALIPHATIC HC STD	FE050916.D	31 Oct 2024 00:28	YP\AJ	Ok
21	PB164532BL	FE050917.D	31 Oct 2024 01:29	YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE103024AL

Review By	yogesh	Review On	10/30/2024 11:26:38 AM		
Supervise By	Ankita	Supervise On	11/4/2024 9:22:11 AM		
SubDirectory	FE103024AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB164532BS	FE050918.D	31 Oct 2024 01:59	YP\AJ	Ok
23	PB164532BSD	FE050919.D	31 Oct 2024 02:29	YP\AJ	Ok
24	P4578-01	FE050920.D	31 Oct 2024 02:59	YP\AJ	Ok
25	P4578-02	FE050921.D	31 Oct 2024 03:29	YP\AJ	Ok
26	P4599-01	FE050922.D	31 Oct 2024 04:00	YP\AJ	Dilution
27	P4599-02	FE050923.D	31 Oct 2024 04:30	YP\AJ	Dilution
28	P4599-03	FE050924.D	31 Oct 2024 05:00	YP\AJ	Dilution
29	P4599-04	FE050925.D	31 Oct 2024 05:30	YP\AJ	Dilution
30	P4599-05	FE050926.D	31 Oct 2024 05:59	YP\AJ	Dilution
31	P4599-06	FE050927.D	31 Oct 2024 06:29	YP\AJ	Dilution
32	P4599-07	FE050928.D	31 Oct 2024 07:00	YP\AJ	Ok
33	P4599-08	FE050929.D	31 Oct 2024 07:30	YP\AJ	Dilution
34	P4599-09	FE050930.D	31 Oct 2024 08:00	YP\AJ	Dilution
35	I.BLK	FE050931.D	31 Oct 2024 08:30	YP\AJ	Ok
36	20 PPM ALIPHATIC HC STD	FE050932.D	31 Oct 2024 09:00	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG102124AR

Review By	yogesh	Review On	10/21/2024 3:17:43 PM		
Supervise By	Ankita	Supervise On	10/22/2024 9:01:46 AM		
SubDirectory	FG102124AR	HP Acquire Method		HP Processing Method	FG102124AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014459.D	21 Oct 2024 18:13	YP\AJ	Ok
2	I.BLK	FG014460.D	21 Oct 2024 18:42	YP\AJ	Ok
3	100 PPM AROMATIC HC STD1	FG014461.D	21 Oct 2024 19:11	YP\AJ	Ok,M
4	50 PPM AROMATIC HC STD2	FG014462.D	21 Oct 2024 19:40	YP\AJ	Ok
5	20 PPM AROMATIC HC STD3	FG014463.D	21 Oct 2024 20:09	YP\AJ	Ok
6	10 PPM AROMATIC HC STD4	FG014464.D	21 Oct 2024 20:38	YP\AJ	Ok
7	5 PPM AROMATIC HC STD5	FG014465.D	21 Oct 2024 21:06	YP\AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FG014466.D	21 Oct 2024 21:36	YP\AJ	Ok
9	I.BLK	FG014467.D	21 Oct 2024 22:33	YP\AJ	Ok
10	20 PPM AROMATIC HC STD	FG014468.D	21 Oct 2024 23:03	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG103024AR

Review By	yogesh	Review On	10/30/2024 1:57:25 PM		
Supervise By	Ankita	Supervise On	11/4/2024 9:23:19 AM		
SubDirectory	FG103024AR	HP Acquire Method		HP Processing Method	FG102124AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014574.D	30 Oct 2024 09:58	YP\AJ	Ok
2	I.BLK	FG014575.D	30 Oct 2024 11:53	YP\AJ	Ok
3	20 PPM AROMATIC HC STD	FG014576.D	30 Oct 2024 12:21	YP\AJ	Ok,M
4	P4599-01	FG014577.D	30 Oct 2024 17:09	YP\AJ	Dilution
5	P4599-02	FG014578.D	30 Oct 2024 17:37	YP\AJ	Dilution
6	P4599-03	FG014579.D	30 Oct 2024 18:06	YP\AJ	Dilution
7	P4599-04	FG014580.D	30 Oct 2024 18:34	YP\AJ	Dilution
8	P4599-05	FG014581.D	30 Oct 2024 19:02	YP\AJ	Dilution
9	P4599-06	FG014582.D	30 Oct 2024 19:31	YP\AJ	Dilution
10	P4599-07	FG014583.D	30 Oct 2024 19:59	YP\AJ	Ok
11	P4599-08	FG014584.D	30 Oct 2024 20:27	YP\AJ	Dilution
12	P4599-09	FG014585.D	30 Oct 2024 20:56	YP\AJ	Dilution
13	I.BLK	FG014586.D	30 Oct 2024 21:52	YP\AJ	Ok
14	20 PPM AROMATIC HC STD	FG014587.D	30 Oct 2024 22:21	YP\AJ	Ok,M
15	PB164532BL	FG014588.D	30 Oct 2024 23:17	YP\AJ	Ok
16	PB164532BS	FG014589.D	30 Oct 2024 23:46	YP\AJ	Ok
17	PB164532BSD	FG014590.D	31 Oct 2024 00:14	YP\AJ	Ok,M
18	P4578-01	FG014591.D	31 Oct 2024 00:42	YP\AJ	Ok
19	P4578-02	FG014592.D	31 Oct 2024 01:11	YP\AJ	Ok
20	I.BLK	FG014593.D	31 Oct 2024 01:39	YP\AJ	Ok
21	20 PPM AROMATIC HC STD	FG014594.D	31 Oct 2024 02:07	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102324AL

Review By	yogesh	Review On	10/23/2024 4:03:24 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:51 AM		
SubDirectory	FC102324AL	HP Acquire Method		HP Processing Method	FC102324AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC067504.D	23 Oct 2024 13:59		YP/AJ	Ok
2	I.BLK	I.BLK	FC067505.D	23 Oct 2024 14:35		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC067506.D	23 Oct 2024 15:12		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC067507.D	23 Oct 2024 15:48		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067508.D	23 Oct 2024 16:25		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC067509.D	23 Oct 2024 17:02		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC067510.D	23 Oct 2024 17:38		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067511.D	23 Oct 2024 18:14		YP/AJ	Ok
9	I.BLK	I.BLK	FC067512.D	23 Oct 2024 19:27		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067513.D	23 Oct 2024 20:03		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC103024AL

Review By	yogesh	Review On	10/30/2024 11:27:45 AM		
Supervise By	Ankita	Supervise On	11/4/2024 9:48:01 AM		
SubDirectory	FC103024AL	HP Acquire Method		HP Processing Method	FC102324AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC067562.D	30 Oct 2024 10:47		YP/AJ	Ok
2	I.BLK	I.BLK	FC067563.D	30 Oct 2024 11:59		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067564.D	30 Oct 2024 14:26		YP/AJ	Ok
4	PB164528BL	PB164528BL	FC067565.D	30 Oct 2024 15:36		YP/AJ	Ok
5	PB164528BS	PB164528BS	FC067566.D	30 Oct 2024 16:13		YP/AJ	Ok,M
6	PB164528BSD	PB164528BSD	FC067567.D	30 Oct 2024 16:50		YP/AJ	Ok,M
7	PB164525BL	PB164525BL	FC067568.D	30 Oct 2024 17:27		YP/AJ	Ok
8	PB164525BS	PB164525BS	FC067569.D	30 Oct 2024 18:04		YP/AJ	Ok
9	PB164525BSD	PB164525BSD	FC067570.D	30 Oct 2024 18:41		YP/AJ	Ok
10	P4578-05	WB-305-BOT	FC067571.D	30 Oct 2024 19:18		YP/AJ	Ok
11	P4578-05D	P4578-05D	FC067572.D	30 Oct 2024 19:54		YP/AJ	Ok
12	P4578-05MS	WB-305-BOTMS	FC067573.D	30 Oct 2024 20:30	FC067571.D	YP/AJ	Ok
13	P4578-05MSD	WB-305-BOTMSD	FC067574.D	30 Oct 2024 21:06	FC067571.D!FC067573.D	YP/AJ	Ok
14	I.BLK	I.BLK	FC067575.D	30 Oct 2024 22:20		YP/AJ	Ok
15	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067576.D	30 Oct 2024 22:56		YP/AJ	Ok
16	P4578-03	WB-305-TOP	FC067577.D	31 Oct 2024 00:08		YP/AJ	Ok
17	P4578-04	WB-305-TOP-1	FC067578.D	31 Oct 2024 00:45		YP/AJ	Ok
18	P4578-07	WB-305-BOT-1	FC067579.D	31 Oct 2024 01:21		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC103024AL

Review By	yogesh	Review On	10/30/2024 11:27:45 AM		
Supervise By	Ankita	Supervise On	11/4/2024 9:48:01 AM		
SubDirectory	FC103024AL	HP Acquire Method		HP Processing Method	FC102324AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4598-01	BP-F12	FC067580.D	31 Oct 2024 01:57		YP/AJ	Ok
20	P4598-01D	P4598-01D	FC067581.D	31 Oct 2024 02:33		YP/AJ	Ok
21	P4598-01MS	BP-F12MS	FC067582.D	31 Oct 2024 03:09	FC067580.D	YP/AJ	Ok,M
22	P4598-01MSD	BP-F12MSD	FC067583.D	31 Oct 2024 03:45	FC067580.D!FC067582.D	YP/AJ	Ok,M
23	P4598-02	BP-F12-EPH	FC067584.D	31 Oct 2024 04:21		YP/AJ	Ok
24	P4598-05	BP-F11	FC067585.D	31 Oct 2024 04:58		YP/AJ	Ok
25	P4598-06	BP-F11-EPH	FC067586.D	31 Oct 2024 05:34		YP/AJ	Ok
26	I.BLK	I.BLK	FC067587.D	31 Oct 2024 06:46		YP/AJ	Ok
27	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067588.D	31 Oct 2024 07:23		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102324AR

Review By	yogesh	Review On	10/23/2024 4:04:27 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:45 AM		
SubDirectory	FD102324AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD048566.D	23 Oct 2024 13:59		YP/AJ	Ok
2	I.BLK	I.BLK	FD048567.D	23 Oct 2024 14:35		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD048568.D	23 Oct 2024 15:12		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD048569.D	23 Oct 2024 15:48		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048570.D	23 Oct 2024 16:25		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD048571.D	23 Oct 2024 17:02		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD048572.D	23 Oct 2024 17:38		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048573.D	23 Oct 2024 18:14		YP/AJ	Ok
9	I.BLK	I.BLK	FD048574.D	23 Oct 2024 19:27		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048575.D	23 Oct 2024 20:03		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD103024AR

Review By	yogesh	Review On	10/30/2024 11:28:50 AM		
Supervise By	Ankita	Supervise On	11/4/2024 9:48:34 AM		
SubDirectory	FD103024AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD048620.D	30 Oct 2024 10:47		YP/AJ	Ok
2	I.BLK	I.BLK	FD048621.D	30 Oct 2024 11:59		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048622.D	30 Oct 2024 14:26		YP/AJ	Ok
4	PB164525BL	PB164525BL	FD048623.D	30 Oct 2024 17:27		YP/AJ	Ok
5	PB164525BS	PB164525BS	FD048624.D	30 Oct 2024 18:04		YP/AJ	Ok,M
6	PB164525BSD	PB164525BSD	FD048625.D	30 Oct 2024 18:41		YP/AJ	Ok,M
7	P4578-03	WB-305-TOP	FD048626.D	30 Oct 2024 19:18		YP/AJ	Ok,M
8	P4578-04	WB-305-TOP-1	FD048627.D	30 Oct 2024 19:54		YP/AJ	Ok
9	P4578-05	WB-305-BOT	FD048628.D	30 Oct 2024 20:30		YP/AJ	Ok
10	P4578-05D	P4578-05D	FD048629.D	30 Oct 2024 21:06		YP/AJ	Ok
11	P4578-05MS	WB-305-BOTMS	FD048630.D	30 Oct 2024 21:43	FD048628.D	YP/AJ	Ok,M
12	P4578-05MSD	WB-305-BOTMSD	FD048631.D	30 Oct 2024 22:20	FD048628.D!FD048630.D	YP/AJ	Ok,M
13	P4578-07	WB-305-BOT-1	FD048632.D	30 Oct 2024 22:56		YP/AJ	Ok,M
14	I.BLK	I.BLK	FD048633.D	31 Oct 2024 00:08		YP/AJ	Ok
15	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048634.D	31 Oct 2024 00:45		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE100824AL

Review By	yogesh	Review On	10/7/2024 4:16:27 PM		
Supervise By	Ankita	Supervise On	10/8/2024 9:52:58 AM		
SubDirectory	FE100824AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE050533.D	07 Oct 2024 13:05		YP\AJ	Ok
2	I.BLK	I.BLK	FE050534.D	07 Oct 2024 13:36		YP\AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FE050535.D	07 Oct 2024 14:06		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE050536.D	07 Oct 2024 14:36		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050537.D	07 Oct 2024 15:06		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE050538.D	07 Oct 2024 15:37		YP\AJ	Ok,M
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE050539.D	07 Oct 2024 16:07		YP\AJ	Ok,M
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050540.D	07 Oct 2024 16:37		YP\AJ	Ok
9	I.BLK	I.BLK	FE050541.D	07 Oct 2024 18:08		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050542.D	07 Oct 2024 18:39		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE103024AL

Review By	yogesh	Review On	10/30/2024 11:26:38 AM		
Supervise By	Ankita	Supervise On	11/4/2024 9:22:11 AM		
SubDirectory	FE103024AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE050897.D	30 Oct 2024 09:00		YP\AJ	Ok
2	I.BLK	I.BLK	FE050898.D	30 Oct 2024 11:44		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050899.D	30 Oct 2024 12:14		YP\AJ	Ok,M
4	P4619-01	SU-03-102924	FE050900.D	30 Oct 2024 14:58		YP\AJ	Ok
5	P4619-02	SU-03-102924-E2	FE050901.D	30 Oct 2024 15:28		YP\AJ	Ok
6	P4598-09	TP-8	FE050902.D	30 Oct 2024 15:58		YP\AJ	Ok,M
7	P4598-10	TP-8-EPH	FE050903.D	30 Oct 2024 16:28	need 5x dilution	YP\AJ	Dilution
8	P4613-01	ARS20-0001	FE050904.D	30 Oct 2024 16:59	need 10x & 200x dilution	YP\AJ	Dilution
9	P4614-01	NB-07-102924	FE050905.D	30 Oct 2024 18:26		YP\AJ	Ok
10	P4614-02	NB-07-102924-E2	FE050906.D	30 Oct 2024 18:56	need 10x ilution	YP\AJ	Dilution
11	P4617-01	RO-SOIL	FE050907.D	30 Oct 2024 19:27		YP\AJ	Ok
12	P4617-02	RO-SOIL-E2	FE050908.D	30 Oct 2024 19:57		YP\AJ	Ok
13	P4618-01	HR-01-102924	FE050909.D	30 Oct 2024 20:27		YP\AJ	Ok
14	P4618-02	HR-01-102924-E2	FE050910.D	30 Oct 2024 20:57		YP\AJ	Ok
15	P4618-03	HR-04-102924	FE050911.D	30 Oct 2024 21:27		YP\AJ	Ok
16	P4618-04	HR-04-102924-E2	FE050912.D	30 Oct 2024 21:57		YP\AJ	Ok
17	P4612-03	MOO-24-00335	FE050913.D	30 Oct 2024 22:27	need 10x & 250x dilution	YP\AJ	Dilution
18	P4612-05	CONCRETE-PAD	FE050914.D	30 Oct 2024 22:57		YP\AJ	Ok,M

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE103024AL

Review By	yogesh	Review On	10/30/2024 11:26:38 AM		
Supervise By	Ankita	Supervise On	11/4/2024 9:22:11 AM		
SubDirectory	FE103024AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	I.BLK	I.BLK	FE050915.D	30 Oct 2024 23:58		YP\AJ	Ok
20	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050916.D	31 Oct 2024 00:28		YP\AJ	Ok
21	PB164532BL	PB164532BL	FE050917.D	31 Oct 2024 01:29		YP\AJ	Ok
22	PB164532BS	PB164532BS	FE050918.D	31 Oct 2024 01:59		YP\AJ	Ok
23	PB164532BSD	PB164532BSD	FE050919.D	31 Oct 2024 02:29		YP\AJ	Ok
24	P4578-01	WB-305-SW	FE050920.D	31 Oct 2024 02:59		YP\AJ	Ok
25	P4578-02	WB-305-SW-1	FE050921.D	31 Oct 2024 03:29		YP\AJ	Ok
26	P4599-01	EX-1-TPH-1	FE050922.D	31 Oct 2024 04:00	need 50x dilution	YP\AJ	Dilution
27	P4599-02	EX-1-TPH-2	FE050923.D	31 Oct 2024 04:30	need 50x dilution	YP\AJ	Dilution
28	P4599-03	EX-1-TPH-3	FE050924.D	31 Oct 2024 05:00	Need 10X and 100X dilution	YP\AJ	Dilution
29	P4599-04	EX-1-TPH-4	FE050925.D	31 Oct 2024 05:30	need 10x & 50x dilution	YP\AJ	Dilution
30	P4599-05	EX-1-TPH-5	FE050926.D	31 Oct 2024 05:59	need 10x & 100x dilution	YP\AJ	Dilution
31	P4599-06	EX-1-TPH-6	FE050927.D	31 Oct 2024 06:29	need 25x dilution	YP\AJ	Dilution
32	P4599-07	EX-1-TPH-7	FE050928.D	31 Oct 2024 07:00		YP\AJ	Ok
33	P4599-08	EX-1-TPH-8	FE050929.D	31 Oct 2024 07:30	need 10x & 50x dilution	YP\AJ	Dilution
34	P4599-09	EX-1-TPH-9	FE050930.D	31 Oct 2024 08:00	need 10x & 50x dilution	YP\AJ	Dilution
35	I.BLK	I.BLK	FE050931.D	31 Oct 2024 08:30		YP\AJ	Ok
36	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050932.D	31 Oct 2024 09:00		YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG102124AR

Review By	yogesh	Review On	10/21/2024 3:17:43 PM		
Supervise By	Ankita	Supervise On	10/22/2024 9:01:46 AM		
SubDirectory	FG102124AR	HP Acquire Method		HP Processing Method	FG102124AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FG014459.D	21 Oct 2024 18:13		YP\AJ	Ok
2	I.BLK	I.BLK	FG014460.D	21 Oct 2024 18:42		YP\AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FG014461.D	21 Oct 2024 19:11		YP\AJ	Ok,M
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FG014462.D	21 Oct 2024 19:40		YP\AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FG014463.D	21 Oct 2024 20:09		YP\AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FG014464.D	21 Oct 2024 20:38		YP\AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FG014465.D	21 Oct 2024 21:06		YP\AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FG014466.D	21 Oct 2024 21:36		YP\AJ	Ok
9	I.BLK	I.BLK	FG014467.D	21 Oct 2024 22:33		YP\AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FG014468.D	21 Oct 2024 23:03		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG103024AR

Review By	yogesh	Review On	10/30/2024 1:57:25 PM		
Supervise By	Ankita	Supervise On	11/4/2024 9:23:19 AM		
SubDirectory	FG103024AR	HP Acquire Method		HP Processing Method	FG102124AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FG014574.D	30 Oct 2024 09:58		YP\AJ	Ok
2	I.BLK	I.BLK	FG014575.D	30 Oct 2024 11:53		YP\AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FG014576.D	30 Oct 2024 12:21		YP\AJ	Ok,M
4	P4599-01	EX-1-TPH-1	FG014577.D	30 Oct 2024 17:09	need 5x & 20x dilution	YP\AJ	Dilution
5	P4599-02	EX-1-TPH-2	FG014578.D	30 Oct 2024 17:37	need 5x & 25x dilution	YP\AJ	Dilution
6	P4599-03	EX-1-TPH-3	FG014579.D	30 Oct 2024 18:06	need 5x & 50x dilution	YP\AJ	Dilution
7	P4599-04	EX-1-TPH-4	FG014580.D	30 Oct 2024 18:34	need 5x & 25x dilution	YP\AJ	Dilution
8	P4599-05	EX-1-TPH-5	FG014581.D	30 Oct 2024 19:02	need 5x & 25x dilution	YP\AJ	Dilution
9	P4599-06	EX-1-TPH-6	FG014582.D	30 Oct 2024 19:31	need 10x dilution	YP\AJ	Dilution
10	P4599-07	EX-1-TPH-7	FG014583.D	30 Oct 2024 19:59		YP\AJ	Ok
11	P4599-08	EX-1-TPH-8	FG014584.D	30 Oct 2024 20:27	need 20x dilution	YP\AJ	Dilution
12	P4599-09	EX-1-TPH-9	FG014585.D	30 Oct 2024 20:56	need 5x & 20x dilution	YP\AJ	Dilution
13	I.BLK	I.BLK	FG014586.D	30 Oct 2024 21:52		YP\AJ	Ok
14	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FG014587.D	30 Oct 2024 22:21		YP\AJ	Ok,M
15	PB164532BL	PB164532BL	FG014588.D	30 Oct 2024 23:17		YP\AJ	Ok
16	PB164532BS	PB164532BS	FG014589.D	30 Oct 2024 23:46		YP\AJ	Ok
17	PB164532BSD	PB164532BSD	FG014590.D	31 Oct 2024 00:14		YP\AJ	Ok,M
18	P4578-01	WB-305-SW	FG014591.D	31 Oct 2024 00:42		YP\AJ	Ok

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG103024AR

Review By	yogesh	Review On	10/30/2024 1:57:25 PM		
Supervise By	Ankita	Supervise On	11/4/2024 9:23:19 AM		
SubDirectory	FG103024AR	HP Acquire Method		HP Processing Method	FG102124AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4578-02	WB-305-SW-1	FG014592.D	31 Oct 2024 01:11		YP\AJ	Ok
20	I.BLK	I.BLK	FG014593.D	31 Oct 2024 01:39		YP\AJ	Ok
21	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FG014594.D	31 Oct 2024 02:07		YP\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164525

12

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/30/2024
Matrix :	Solid			**Extraction Start Time :**	08:20
Weigh By:	EH	**Extraction By:**	RS	**Extraction End Date :**	10/30/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:40
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	100 PPM	PP23706
Fractionation Surrogate	1.0ML	100 PPM	PP23892
Spike Sol 1	1.0ML	100 PPM	PP23916
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2538
Baked Na2SO4	N/A	EP2554
Sand	N/A	E2865
Hexane	N/A	E3819
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID:	Water bath -01	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/30/24	RP (Ept 1043)	Y. P. Pestipad.
16:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164525

Analytical Method: MNJDEP-EPH-7

Concentration Date: 10/30/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164525BL	PB164525BL	EPH	30.03	N/A	ritesh	Evelyn	2	E		U1-1
PB164525BS	PB164525BS	EPH	30.01	N/A	ritesh	Evelyn	2			2
PB164525BSD	PB164525BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
P4578-03	WB-305-TOP	EPH	30.06	N/A	ritesh	Evelyn	2	E		4
P4578-04	WB-305-TOP-1	EPH	30.09	N/A	ritesh	Evelyn	2	E		5
P4578-05	WB-305-BOT	EPH	30.07	N/A	ritesh	Evelyn	2	E		6
P4578-05DUP	WB-305-BOTDUP	EPH	30.03	N/A	ritesh	Evelyn	2	E		U5-1
P4578-05MS	WB-305-BOTMS	EPH	30.01	N/A	ritesh	Evelyn	2	E		2
P4578-05MSD	WB-305-BOTMSD	EPH	30.10	N/A	ritesh	Evelyn	2	E		3
P4578-07	WB-305-BOT-1	EPH	30.08	N/A	ritesh	Evelyn	2	E		4
P4599-01	EX-1-TPH-1	EPH	30.06	N/A	ritesh	Evelyn	2	E		5
P4599-02	EX-1-TPH-2	EPH	30.03	N/A	ritesh	Evelyn	2	E		6
P4599-03	EX-1-TPH-3	EPH	30.07	N/A	ritesh	Evelyn	2	E		U6-1
P4599-04	EX-1-TPH-4	EPH	30.01	N/A	ritesh	Evelyn	2	E		2
P4599-05	EX-1-TPH-5	EPH	30.06	N/A	ritesh	Evelyn	2	E		3
P4599-06	EX-1-TPH-6	EPH	30.02	N/A	ritesh	Evelyn	2	E		4
P4599-07	EX-1-TPH-7	EPH	30.05	N/A	ritesh	Evelyn	2	E		5
P4599-08	EX-1-TPH-8	EPH	30.04	N/A	ritesh	Evelyn	2	E		6
P4599-09	EX-1-TPH-9	EPH	30.08	N/A	ritesh	Evelyn	2	E		U7-1

* **Extracts relinquished on the same date as received.**

10/30/24

10/30/24 8:20 P4578

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4599 **WorkList ID :** 184926 **Department :** Extraction **Date :** 10-30-2024 08:14:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4578-03	WB-305-TOP	Solid	EPH	Cool 4 deg C	PORT06	K63	10/25/2024	NJEPH
P4578-04	WB-305-TOP-1	Solid	EPH	Cool 4 deg C	PORT06	K63	10/25/2024	NJEPH
P4578-05	WB-305-BOT	Solid	EPH	Cool 4 deg C	PORT06	K63	10/25/2024	NJEPH
P4578-07	WB-305-BOT-1	Solid	EPH	Cool 4 deg C	PORT06	K63	10/25/2024	NJEPH
P4599-01	EX-1-TPH-1	Solid	EPH	Cool 4 deg C	ENTA05	K63	10/28/2024	NJEPH
P4599-02	EX-1-TPH-2	Solid	EPH	Cool 4 deg C	ENTA05	K63	10/28/2024	NJEPH
P4599-03	EX-1-TPH-3	Solid	EPH	Cool 4 deg C	ENTA05	K63	10/28/2024	NJEPH
P4599-04	EX-1-TPH-4	Solid	EPH	Cool 4 deg C	ENTA05	K63	10/28/2024	NJEPH
P4599-05	EX-1-TPH-5	Solid	EPH	Cool 4 deg C	ENTA05	K63	10/28/2024	NJEPH
P4599-06	EX-1-TPH-6	Solid	EPH	Cool 4 deg C	ENTA05	K63	10/28/2024	NJEPH
P4599-07	EX-1-TPH-7	Solid	EPH	Cool 4 deg C	ENTA05	K63	10/28/2024	NJEPH
P4599-08	EX-1-TPH-8	Solid	EPH	Cool 4 deg C	ENTA05	K63	10/28/2024	NJEPH
P4599-09	EX-1-TPH-9	Solid	EPH	Cool 4 deg C	ENTA05	K63	10/28/2024	NJEPH

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Date/Time 10/30/24 8:17
Raw Sample Received by: RJ (Eat Labs)
Raw Sample Relinquished by: JTC(SM)

Date/Time 10/30/24 8:45
Raw Sample Received by: JTC(SM)
Raw Sample Relinquished by: RJ (Eat Labs)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164532

SOP ID:	MNJDEP-EPH-7		
Clean Up SOP #:	N/A	**Extraction Start Date :**	10/30/2024
Matrix :	Water	**Extraction Start Time :**	08:50
Weigh By:	N/A	**Extraction By:** RS	**Extraction End Date :** 10/30/2024
Balance check:	N/A	**Filter By:** RS	**Extraction End Time :** 16:10
Balance ID:	N/A	**pH Meter ID:** N/A	**Concentration By:** EH
pH Strip Lot#:	E3574	**Hood ID:** 4,6,7	**Supervisor By :** rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP23712
Surrogate	1.0ML	100 PPM	PP23706
Fractionation Surrogate	1.0ML	100 PPM	PP23704
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3822
Baked Na2SO4	N/A	EP2546
Hexane	N/A	E3819
6N HCL	N/A	EP2517
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/30/24	2P (Ext Lab)	Y-P-Pest1p03.
16:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164532

Analytical Method: MNJDEP-EPH-7

Concentration Date: 10/30/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164532BL	PB164532BL	EPH	1000	<2	ritesh	rajesh	2			SEP-01
PB164532BS	PB164532BS	EPH	1000	<2	ritesh	rajesh	2			2
PB164532BSD	PB164532BSD	EPH	1000	<2	ritesh	rajesh	2			3
P4578-01	WB-305-SW	EPH	1000	<2	ritesh	rajesh	2	C		4
P4578-02	WB-305-SW-1	EPH	1000	<2	ritesh	rajesh	2	C		5

* **Extracts relinquished on the same date as received.**

10/30/24

P4578 P4532 S'30 EDM

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4578 **WorkList ID :** 184933 **Department :** Extraction **Date :** 10-30-2024 08:30:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4578-01	WB-305-SW	Water	EPH	1:1 HCl to pH < 2	PORT06	K63	10/25/2024	NJEPH
P4578-01	WB-305-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-02	WB-305-SW-1	Water	EPH	1:1 HCl to pH < 2	PORT06	K63	10/25/2024	NJEPH
P4578-02	WB-305-SW-1	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E

1443 of 1713

Date/Time 10/30/24 8:45
Raw Sample Received by: RJ (Set by)
Raw Sample Relinquished by: JTC(SM)

Date/Time 10/30/24 9:05
Raw Sample Received by: JTC(SM)
Raw Sample Relinquished by: RJ (Set by)

C I H G F E D C B A 12

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	**WB-305-SW**	**WATER**			**10/25/24**			**10/25/24**
			PCB	8082A		10/29/24	10/29/24	
			EPH	NJEPH		10/30/24	10/31/24	
P4578-02	**WB-305-SW-1**	**WATER**			**10/25/24**			**10/25/24**
			PCB	8082A		10/29/24	10/29/24	
			EPH	NJEPH		10/30/24	10/31/24	
P4578-03	**WB-305-TOP**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
			EPH	NJEPH		10/30/24	10/30/24	
			EPH	NJEPH		10/30/24	10/31/24	
P4578-04	**WB-305-TOP-1**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
			EPH	NJEPH		10/30/24	10/30/24	
			EPH	NJEPH		10/30/24	10/31/24	
P4578-05	**WB-305-BOT**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
			EPH	NJEPH		10/30/24	10/30/24	
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP Pesticide	8081B		10/26/24	10/29/24	
P4578-07	**WB-305-BOT-1**	**SOIL**			**10/25/24**			**10/25/24**
			PCB	8082A		10/28/24	10/29/24	
			EPH	NJEPH		10/30/24	10/30/24	
			EPH	NJEPH		10/30/24	10/31/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP Pesticide	8081B		10/26/24	10/29/24	

Alliance TECHNICAL GROUP
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Hit Summary Sheet
SW-846

SDG No.: P4578 **Order ID:** P4578

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-305-SW								
P4578-01	WB-305-SW	Water	Aluminum	116		28.3	50.0	ug/L
P4578-01	WB-305-SW	Water	Antimony	2.72	J	2.06	25.0	ug/L
P4578-01	WB-305-SW	Water	Barium	31.8	J	6.28	50.0	ug/L
P4578-01	WB-305-SW	Water	Calcium	173000		33.0	1000	ug/L
P4578-01	WB-305-SW	Water	Chromium	5.67		0.66	5.00	ug/L
P4578-01	WB-305-SW	Water	Iron	436		18.5	50.0	ug/L
P4578-01	WB-305-SW	Water	Magnesium	440000		39.4	1000	ug/L
P4578-01	WB-305-SW	Water	Manganese	70.2		1.46	10.0	ug/L
P4578-01	WB-305-SW	Water	Nickel	3.83	J	0.85	20.0	ug/L
P4578-01	WB-305-SW	Water	Potassium	210000		685	1000	ug/L
P4578-01	WB-305-SW	Water	Sodium	3960000	D	1190	5000	ug/L
P4578-01	WB-305-SW	Water	Zinc	25.0		1.75	20.0	ug/L
Client ID : WB-305-SW-1								
P4578-02	WB-305-SW-1	Water	Aluminum	90.3		28.3	50.0	ug/L
P4578-02	WB-305-SW-1	Water	Barium	30.7	J	6.28	50.0	ug/L
P4578-02	WB-305-SW-1	Water	Calcium	169000		33.0	1000	ug/L
P4578-02	WB-305-SW-1	Water	Chromium	5.82		0.66	5.00	ug/L
P4578-02	WB-305-SW-1	Water	Iron	387		18.5	50.0	ug/L
P4578-02	WB-305-SW-1	Water	Magnesium	432000		39.4	1000	ug/L
P4578-02	WB-305-SW-1	Water	Manganese	67.9		1.46	10.0	ug/L
P4578-02	WB-305-SW-1	Water	Nickel	5.34	J	0.85	20.0	ug/L
P4578-02	WB-305-SW-1	Water	Potassium	200000		685	1000	ug/L
P4578-02	WB-305-SW-1	Water	Sodium	3960000	D	1190	5000	ug/L
P4578-02	WB-305-SW-1	Water	Vanadium	3.63	J	3.06	20.0	ug/L
P4578-02	WB-305-SW-1	Water	Zinc	22.1		1.75	20.0	ug/L
Client ID : WB-305-TOP								
P4578-03	WB-305-TOP	SOIL	Aluminum	8650		4.13	8.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Antimony	0.93	J	0.26	4.28	mg/Kg
P4578-03	WB-305-TOP	SOIL	Arsenic	44.3		0.50	1.71	mg/Kg
P4578-03	WB-305-TOP	SOIL	Barium	103		1.10	8.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Beryllium	0.68		0.021	0.51	mg/Kg
P4578-03	WB-305-TOP	SOIL	Cadmium	3.15		0.027	0.51	mg/Kg
P4578-03	WB-305-TOP	SOIL	Calcium	2590		4.80	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Chromium	135		0.093	0.86	mg/Kg
P4578-03	WB-305-TOP	SOIL	Cobalt	9.42		0.099	2.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Copper	306		0.81	1.71	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4578 **Order ID:** P4578

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-03	WB-305-TOP	SOIL	Iron	20500		4.61	8.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Lead	261		0.26	1.03	mg/Kg
P4578-03	WB-305-TOP	SOIL	Magnesium	3910		5.88	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Manganese	207		0.12	1.71	mg/Kg
P4578-03	WB-305-TOP	SOIL	Mercury	4.57	D	0.10	0.23	mg/Kg
P4578-03	WB-305-TOP	SOIL	Nickel	44.2		0.15	3.43	mg/Kg
P4578-03	WB-305-TOP	SOIL	Potassium	1530		49.2	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Silver	2.64		0.089	0.86	mg/Kg
P4578-03	WB-305-TOP	SOIL	Sodium	3350		61.8	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Vanadium	23.2		0.46	3.43	mg/Kg
P4578-03	WB-305-TOP	SOIL	Zinc	380		0.19	3.43	mg/Kg
Client ID :	**WB-305-TOP-1**							
P4578-04	WB-305-TOP-1	SOIL	Aluminum	8270		3.91	8.11	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Antimony	1.07	J	0.24	4.06	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Arsenic	71.8		0.47	1.62	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Barium	174		1.04	8.11	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Beryllium	0.64		0.019	0.49	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Cadmium	4.01		0.026	0.49	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Calcium	3120		4.54	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Chromium	215	D	0.44	4.06	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Cobalt	8.93		0.094	2.43	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Copper	432		0.76	1.62	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Iron	19100		4.36	8.11	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Lead	458		0.24	0.97	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Magnesium	3710		5.57	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Manganese	177		0.12	1.62	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Mercury	2.73	D	0.094	0.21	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Nickel	54.9		0.15	3.24	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Potassium	1440		46.6	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Silver	4.34		0.084	0.81	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Sodium	3590		58.6	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Thallium	1.24	J	0.71	3.24	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Vanadium	21.5		0.44	3.24	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Zinc	577		0.18	3.24	mg/Kg
Client ID :	**WB-305-BOT**							
P4578-05	WB-305-BOT	SOIL	Aluminum	3760		2.86	5.94	mg/Kg
P4578-05	WB-305-BOT	SOIL	Antimony	0.18	J	0.18	2.97	mg/Kg
P4578-05	WB-305-BOT	SOIL	Arsenic	1.30		0.35	1.19	mg/Kg
P4578-05	WB-305-BOT	SOIL	Barium	19.3		0.76	5.94	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4578 **Order ID:** P4578

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-05	WB-305-BOT	SOIL	Beryllium	0.37		0.014	0.36	mg/Kg
P4578-05	WB-305-BOT	SOIL	Cadmium	0.99		0.019	0.36	mg/Kg
P4578-05	WB-305-BOT	SOIL	Calcium	5070		3.33	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Chromium	10.7		0.064	0.59	mg/Kg
P4578-05	WB-305-BOT	SOIL	Cobalt	5.08		0.069	1.78	mg/Kg
P4578-05	WB-305-BOT	SOIL	Copper	11.6		0.56	1.19	mg/Kg
P4578-05	WB-305-BOT	SOIL	Iron	11800		3.20	5.94	mg/Kg
P4578-05	WB-305-BOT	SOIL	Lead	6.90		0.18	0.71	mg/Kg
P4578-05	WB-305-BOT	SOIL	Magnesium	2640		4.08	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Manganese	175		0.084	1.19	mg/Kg
P4578-05	WB-305-BOT	SOIL	Mercury	0.072		0.0060	0.014	mg/Kg
P4578-05	WB-305-BOT	SOIL	Nickel	11.0		0.11	2.38	mg/Kg
P4578-05	WB-305-BOT	SOIL	Potassium	834		34.1	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Silver	0.48	J	0.062	0.59	mg/Kg
P4578-05	WB-305-BOT	SOIL	Sodium	881		42.9	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Vanadium	10.5		0.32	2.38	mg/Kg
P4578-05	WB-305-BOT	SOIL	Zinc	31.0		0.13	2.38	mg/Kg
Client ID :	**WB-305-BOT-1**							
P4578-07	WB-305-BOT-1	SOIL	Aluminum	3510		2.23	4.63	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Arsenic	1.74		0.27	0.93	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Barium	21.0		0.59	4.63	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Beryllium	0.33		0.011	0.28	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Cadmium	0.92		0.015	0.28	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Calcium	3810		2.59	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Chromium	11.7		0.050	0.46	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Cobalt	4.56		0.054	1.39	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Copper	11.5		0.44	0.93	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Iron	9770		2.49	4.63	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Lead	8.83		0.14	0.56	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Magnesium	2040		3.17	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Manganese	114		0.066	0.93	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Mercury	0.036		0.0060	0.014	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Nickel	9.39		0.083	1.85	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Potassium	754		26.6	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Silver	0.38	J	0.048	0.46	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Sodium	773		33.4	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Vanadium	10.1		0.25	1.85	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Zinc	25.6		0.10	1.85	mg/Kg

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	116		1	28.3	50.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-36-0	Antimony	2.72	J	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-39-3	Barium	31.8	J	1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-70-2	Calcium	173000		1	33.0	1000	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-47-3	Chromium	5.67		1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7439-89-6	Iron	436		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7439-95-4	Magnesium	440000		1	39.4	1000	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7439-96-5	Manganese	70.2		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	10/25/24 08:10	10/28/24 12:00	SW7470A	
7440-02-0	Nickel	3.83	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-09-7	Potassium	210000		1	685	1000	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-23-5	Sodium	3960000	D	5	1190	5000	ug/L	10/26/24 09:40	10/29/24 17:49	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-66-6	Zinc	25.0	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	90.3		1	28.3	50.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-39-3	Barium	30.7	J	1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-70-2	Calcium	169000		1	33.0	1000	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-47-3	Chromium	5.82		1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7439-89-6	Iron	387		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7439-95-4	Magnesium	432000		1	39.4	1000	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7439-96-5	Manganese	67.9		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	10/25/24 08:10	10/28/24 12:02	SW7470A	
7440-02-0	Nickel	5.34	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-09-7	Potassium	200000		1	685	1000	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-23-5	Sodium	3960000	D	5	1190	5000	ug/L	10/26/24 09:40	10/29/24 18:02	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-62-2	Vanadium	3.63	J	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-66-6	Zinc	22.1	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	53.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8650		1	4.13	8.57	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-36-0	Antimony	0.93	J	1	0.26	4.28	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-38-2	Arsenic	44.3		1	0.50	1.71	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-39-3	Barium	103		1	1.10	8.57	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-41-7	Beryllium	0.68	N	1	0.021	0.51	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-43-9	Cadmium	3.15		1	0.027	0.51	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-70-2	Calcium	2590	*	1	4.80	171	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-47-3	Chromium	135		1	0.093	0.86	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-48-4	Cobalt	9.42		1	0.099	2.57	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-50-8	Copper	306		1	0.81	1.71	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7439-89-6	Iron	20500		1	4.61	8.57	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7439-92-1	Lead	261		1	0.26	1.03	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7439-95-4	Magnesium	3910		1	5.88	171	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7439-96-5	Manganese	207		1	0.12	1.71	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7439-97-6	Mercury	4.57	D	10	0.10	0.23	mg/Kg	10/28/24 16:15	10/29/24 11:52	SW7471B	
7440-02-0	Nickel	44.2		1	0.15	3.43	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-09-7	Potassium	1530		1	49.2	171	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7782-49-2	Selenium	0.56	UN	1	0.56	1.71	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-22-4	Silver	2.64		1	0.089	0.86	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-23-5	Sodium	3350		1	61.8	171	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-28-0	Thallium	0.75	U	1	0.75	3.43	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-62-2	Vanadium	23.2		1	0.46	3.43	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-66-6	Zinc	380		1	0.19	3.43	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	N/A
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	58.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8270		1	3.91	8.11	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-36-0	Antimony	1.07	J	1	0.24	4.06	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-38-2	Arsenic	71.8		1	0.47	1.62	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-39-3	Barium	174		1	1.04	8.11	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-41-7	Beryllium	0.64	N	1	0.019	0.49	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-43-9	Cadmium	4.01		1	0.026	0.49	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-70-2	Calcium	3120	*	1	4.54	162	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-47-3	Chromium	215	D	5	0.44	4.06	mg/Kg	10/25/24 16:15	11/08/24 14:55	SW6010	SW3050
7440-48-4	Cobalt	8.93		1	0.094	2.43	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-50-8	Copper	432		1	0.76	1.62	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7439-89-6	Iron	19100		1	4.36	8.11	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7439-92-1	Lead	458		1	0.24	0.97	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7439-95-4	Magnesium	3710		1	5.57	162	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7439-96-5	Manganese	177		1	0.12	1.62	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7439-97-6	Mercury	2.73	D	10	0.094	0.21	mg/Kg	10/28/24 16:15	10/29/24 11:55	SW7471B	
7440-02-0	Nickel	54.9		1	0.15	3.24	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-09-7	Potassium	1440		1	46.6	162	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7782-49-2	Selenium	0.54	UN	1	0.54	1.62	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-22-4	Silver	4.34		1	0.084	0.81	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-23-5	Sodium	3590		1	58.6	162	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-28-0	Thallium	1.24	J	1	0.71	3.24	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-62-2	Vanadium	21.5		1	0.44	3.24	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-66-6	Zinc	577		1	0.18	3.24	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	N/A
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
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OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	82.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3760		1	2.86	5.94	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-36-0	Antimony	0.18	J	1	0.18	2.97	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-38-2	Arsenic	1.30		1	0.35	1.19	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-39-3	Barium	19.3		1	0.76	5.94	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-41-7	Beryllium	0.37	N	1	0.014	0.36	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-43-9	Cadmium	0.99		1	0.019	0.36	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-70-2	Calcium	5070	*	1	3.33	119	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-47-3	Chromium	10.7		1	0.064	0.59	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-48-4	Cobalt	5.08		1	0.069	1.78	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-50-8	Copper	11.6		1	0.56	1.19	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7439-89-6	Iron	11800		1	3.20	5.94	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7439-92-1	Lead	6.90		1	0.18	0.71	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7439-95-4	Magnesium	2640		1	4.08	119	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7439-96-5	Manganese	175		1	0.084	1.19	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7439-97-6	Mercury	0.072		1	0.0060	0.014	mg/Kg	10/28/24 16:15	10/29/24 11:25	SW7471B	
7440-02-0	Nickel	11.0		1	0.11	2.38	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-09-7	Potassium	834		1	34.1	119	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7782-49-2	Selenium	0.39	UN	1	0.39	1.19	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-22-4	Silver	0.48	J	1	0.062	0.59	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-23-5	Sodium	881		1	42.9	119	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-28-0	Thallium	0.52	U	1	0.52	2.38	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-62-2	Vanadium	10.5		1	0.32	2.38	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-66-6	Zinc	31.0		1	0.13	2.38	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	N/A
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	94.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3510		1	2.23	4.63	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-36-0	Antimony	0.14	U	1	0.14	2.31	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-38-2	Arsenic	1.74		1	0.27	0.93	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-39-3	Barium	21.0		1	0.59	4.63	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-41-7	Beryllium	0.33	N	1	0.011	0.28	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-43-9	Cadmium	0.92		1	0.015	0.28	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-70-2	Calcium	3810	*	1	2.59	92.5	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-47-3	Chromium	11.7		1	0.050	0.46	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-48-4	Cobalt	4.56		1	0.054	1.39	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-50-8	Copper	11.5		1	0.44	0.93	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7439-89-6	Iron	9770		1	2.49	4.63	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7439-92-1	Lead	8.83		1	0.14	0.56	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7439-95-4	Magnesium	2040		1	3.17	92.5	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7439-96-5	Manganese	114		1	0.066	0.93	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7439-97-6	Mercury	0.036		1	0.0060	0.014	mg/Kg	10/28/24 16:15	10/29/24 11:27	SW7471B	
7440-02-0	Nickel	9.39		1	0.083	1.85	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-09-7	Potassium	754		1	26.6	92.5	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7782-49-2	Selenium	0.31	UN	1	0.31	0.93	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-22-4	Silver	0.38	J	1	0.048	0.46	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-23-5	Sodium	773		1	33.4	92.5	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-28-0	Thallium	0.41	U	1	0.41	1.85	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-62-2	Vanadium	10.1		1	0.25	1.85	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-66-6	Zinc	25.6		1	0.10	1.85	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	N/A
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB55	Mercury	0.20	+/-0.20	U	0.20	CV	10/28/2024	11:14	LB133167

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB79	Mercury	0.20	+/-0.20	U	0.20	CV	10/28/2024	11:21	LB133167
CCB80	Mercury	0.20	+/-0.20	U	0.20	CV	10/28/2024	11:53	LB133167
CCB81	Mercury	0.20	+/-0.20	U	0.20	CV	10/28/2024	12:14	LB133167

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB57	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	10:34	LB133185

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB86	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	10:39	LB133185
CCB87	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	11:06	LB133185
CCB88	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	11:34	LB133185
CCB89	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	11:59	LB133185

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	10/28/2024	13:08	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	13:08	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	13:08	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	13:08	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	13:08	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	13:08	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	13:08	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	13:08	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	13:08	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	13:08	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	13:08	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	13:08	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	13:08	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	13:08	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	13:08	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	13:08	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	13:08	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	13:08	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	13:08	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	13:08	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	13:08	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	13:08	LB133175

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	10/28/2024	13:39	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	13:39	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	13:39	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	13:39	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	13:39	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	13:39	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	13:39	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	13:39	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	13:39	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	13:39	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	13:39	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	13:39	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	13:39	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	13:39	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	13:39	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	13:39	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	13:39	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	13:39	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	13:39	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	13:39	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	13:39	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	13:39	LB133175
CCB02	Aluminum	100	+/-100	U	100	P	10/28/2024	14:30	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	14:30	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	14:30	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	14:30	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	14:30	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	14:30	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	14:30	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	14:30	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	14:30	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	14:30	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	14:30	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	14:30	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	14:30	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	14:30	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	14:30	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	14:30	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	14:30	LB133175

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	14:30	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	14:30	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	14:30	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	14:30	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	14:30	LB133175
CCB03	Aluminum	100	+/-100	U	100	P	10/28/2024	15:20	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	15:20	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	15:20	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	15:20	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	15:20	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	15:20	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	15:20	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	15:20	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	15:20	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	15:20	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	15:20	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	15:20	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	15:20	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	15:20	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	15:20	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	15:20	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	15:20	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	15:20	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	15:20	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	15:20	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	15:20	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	15:20	LB133175
CCB04	Aluminum	100	+/-100	U	100	P	10/28/2024	16:10	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	16:10	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	16:10	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	16:10	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	16:10	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	16:10	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	16:10	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	16:10	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	16:10	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	16:10	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	16:10	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	16:10	LB133175

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	16:10	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	16:10	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	16:10	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	16:10	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	16:10	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	16:10	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	16:10	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	16:10	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	16:10	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	16:10	LB133175
CCB05	Aluminum	100	+/-100	U	100	P	10/28/2024	17:01	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	17:01	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	17:01	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	17:01	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	17:01	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	17:01	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	17:01	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	17:01	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	17:01	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	17:01	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	17:01	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	17:01	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	17:01	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	17:01	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	17:01	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	17:01	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	17:01	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	17:01	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	17:01	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	17:01	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	17:01	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	17:01	LB133175
CCB06	Aluminum	100	+/-100	U	100	P	10/28/2024	17:54	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	17:54	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	17:54	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	17:54	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	17:54	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	17:54	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	17:54	LB133175

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	17:54	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	17:54	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	17:54	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	17:54	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	17:54	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	17:54	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	17:54	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	17:54	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	17:54	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	17:54	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	17:54	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	17:54	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	17:54	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	17:54	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	17:54	LB133175
CCB07	Aluminum	100	+/-100	U	100	P	10/28/2024	18:47	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	18:47	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	18:47	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	18:47	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	18:47	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	18:47	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	18:47	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	18:47	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	18:47	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	18:47	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	18:47	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	18:47	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	18:47	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	18:47	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	18:47	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	18:47	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	18:47	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	18:47	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	18:47	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	18:47	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	18:47	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	18:47	LB133175
CCB08	Aluminum	100	+/-100	U	100	P	10/28/2024	19:37	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	19:37	LB133175

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	19:37	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	19:37	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	19:37	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	19:37	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	19:37	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	19:37	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	19:37	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	19:37	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	19:37	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	19:37	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	19:37	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	19:37	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	19:37	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	19:37	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	19:37	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	19:37	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	19:37	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	19:37	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	19:37	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	19:37	LB133175
CCB09	Aluminum	100	+/-100	U	100	P	10/28/2024	20:26	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	20:26	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	20:26	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	20:26	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	20:26	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	20:26	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	20:26	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	20:26	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	20:26	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	20:26	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	20:26	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	20:26	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	20:26	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	20:26	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	20:26	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	20:26	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	20:26	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	20:26	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	20:26	LB133175

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	20:26	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	20:26	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	20:26	LB133175
CCB10	Aluminum	100	+/-100	U	100	P	10/28/2024	21:25	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	21:25	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	21:25	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	21:25	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	21:25	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	21:25	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	21:25	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	21:25	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	21:25	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	21:25	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	21:25	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	21:25	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	21:25	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	21:25	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	21:25	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	21:25	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	21:25	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	21:25	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	21:25	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	21:25	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	21:25	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	21:25	LB133175
CCB11	Aluminum	100	+/-100	U	100	P	10/28/2024	21:43	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	21:43	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	21:43	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	21:43	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	21:43	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	21:43	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	21:43	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	21:43	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	21:43	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	21:43	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	21:43	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	21:43	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	21:43	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	21:43	LB133175

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	21:43	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	21:43	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	21:43	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	21:43	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	21:43	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	21:43	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	21:43	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	21:43	LB133175

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	10/29/2024	12:35	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	12:35	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	12:35	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	12:35	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	12:35	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	12:35	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	12:35	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	12:35	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	12:35	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	12:35	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	10/29/2024	13:06	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	13:06	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	13:06	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	13:06	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	13:06	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	13:06	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	13:06	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	13:06	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	13:06	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	13:06	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
CCB02	Aluminum	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	14:15	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	14:15	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	14:15	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	14:15	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	14:15	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	14:15	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	14:15	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
CCB03	Aluminum	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	15:06	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	15:06	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	15:06	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	15:06	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	15:06	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	15:06	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	15:06	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
CCB04	Aluminum	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	16:03	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:03	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:03	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	16:03	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	16:03	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	16:03	LB133198

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	16:03	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
CCB05	Aluminum	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	16:57	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:57	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:57	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	16:57	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	16:57	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	16:57	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	16:57	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
CCB06	Aluminum	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	17:58	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	17:58	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	17:58	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	17:58	LB133198

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	17:58	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	17:58	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	17:58	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	17:58	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	17:58	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	17:58	LB133198
	Sodium	561	+/-2000	J	2000	P	10/29/2024	17:58	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
CCB07	Aluminum	100	+/-100	U	100	P	10/29/2024	18:24	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	18:24	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	18:24	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	18:24	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	18:24	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	18:24	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	18:24	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	18:24	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	18:24	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	18:24	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	11/08/2024	14:16	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	14:16	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	14:16	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:16	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:16	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	14:16	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:16	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	14:16	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	14:16	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:16	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	14:16	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	14:16	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	14:16	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	14:16	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	11/08/2024	14:50	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	14:50	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	14:50	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:50	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:50	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	14:50	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:50	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	14:50	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	14:50	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:50	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	14:50	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	14:50	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	14:50	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	14:50	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
CCB02	Aluminum	100	+/-100	U	100	P	11/08/2024	15:33	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	15:33	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	15:33	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	15:33	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	15:33	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	15:33	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	15:33	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	15:33	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	15:33	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	15:33	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
CCB03	Aluminum	100	+/-100	U	100	P	11/08/2024	16:28	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	16:28	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	16:28	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	16:28	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	16:28	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	16:28	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	16:28	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	16:28	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	16:28	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	16:28	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	16:28	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	16:28	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	16:28	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	16:28	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
CCB04	Aluminum	100	+/-100	U	100	P	11/08/2024	17:22	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	17:22	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	17:22	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	17:22	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	17:22	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	17:22	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	17:22	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	17:22	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	17:22	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	17:22	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	17:22	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	17:22	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	17:22	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	17:22	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
CCB05	Aluminum	100	+/-100	U	100	P	11/08/2024	18:08	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	18:08	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	18:08	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:08	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:08	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	18:08	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	18:08	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	18:08	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	18:08	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:08	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	18:08	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	18:08	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	18:08	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	18:08	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
CCB06	Aluminum	100	+/-100	U	100	P	11/08/2024	18:59	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	18:59	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	18:59	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:59	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:59	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	18:59	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	18:59	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	18:59	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	18:59	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:59	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	18:59	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	18:59	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	18:59	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	18:59	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
CCB07	Aluminum	100	+/-100	U	100	P	11/08/2024	19:51	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	19:51	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	19:51	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	19:51	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	19:51	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	19:51	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	19:51	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	19:51	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	19:51	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	19:51	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	19:51	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	19:51	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	19:51	LB133365
	Sodium	941	+/-2000	J	2000	P	11/08/2024	19:51	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
CCB08	Aluminum	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	20:57	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	20:57	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	20:57	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	20:57	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	20:57	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	20:57	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	20:57	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	20:57	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	20:57	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	20:57	LB133365
	Sodium	720	+/-2000	J	2000	P	11/08/2024	20:57	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
CCB09	Aluminum	100	+/-100	U	100	P	11/08/2024	21:55	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	21:55	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	21:55	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	21:55	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	21:55	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	21:55	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	21:55	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	21:55	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	21:55	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	21:55	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	21:55	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	21:55	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	21:55	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	21:55	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	21:55	LB133365

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	21:55	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	21:55	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	21:55	LB133365
CCB10	Aluminum	100	+/-100	U	100	P	11/08/2024	23:35	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	23:35	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	23:35	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	23:35	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	23:35	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	23:35	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	23:35	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	23:35	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	23:35	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	23:35	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	23:35	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	23:35	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	23:35	LB133365
	Sodium	742	+/-2000	J	2000	P	11/08/2024	23:35	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164472BL		**WATER**		**Batch Number:**	**PB164472**		**Prep Date:**	**10/25/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	10/28/2024	11:32	LB133167

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164487BL		**SOLID**		**Batch Number:**	**PB164487**		**Prep Date:**	**10/28/2024**	
	Mercury	0.013	<0.013	U	0.013	CV	10/29/2024	10:48	LB133185

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164415BL		**SOLID**		**Batch Number:**	**PB164415**		**Prep Date:**	**10/25/2024**	
	Aluminum	4.22	<4.22	U	4.22	P	10/28/2024	21:08	LB133175
	Antimony	2.11	<2.11	U	2.11	P	10/28/2024	21:08	LB133175
	Arsenic	0.84	<0.84	U	0.84	P	10/28/2024	21:08	LB133175
	Barium	4.22	<4.22	U	4.22	P	10/28/2024	21:08	LB133175
	Beryllium	0.25	<0.25	U	0.25	P	10/28/2024	21:08	LB133175
	Cadmium	0.25	<0.25	U	0.25	P	10/28/2024	21:08	LB133175
	Calcium	84.4	<84.4	U	84.4	P	10/28/2024	21:08	LB133175
	Chromium	0.42	<0.42	U	0.42	P	10/28/2024	21:08	LB133175
	Cobalt	1.27	<1.27	U	1.27	P	10/28/2024	21:08	LB133175
	Copper	0.84	<0.84	U	0.84	P	10/28/2024	21:08	LB133175
	Iron	4.22	<4.22	U	4.22	P	10/28/2024	21:08	LB133175
	Lead	0.51	<0.51	U	0.51	P	10/28/2024	21:08	LB133175
	Magnesium	84.4	<84.4	U	84.4	P	10/28/2024	21:08	LB133175
	Manganese	0.84	<0.84	U	0.84	P	10/28/2024	21:08	LB133175
	Nickel	1.69	<1.69	U	1.69	P	10/28/2024	21:08	LB133175
	Potassium	84.4	<84.4	U	84.4	P	10/28/2024	21:08	LB133175
	Selenium	0.84	<0.84	U	0.84	P	10/28/2024	21:08	LB133175
	Silver	0.42	<0.42	U	0.42	P	10/28/2024	21:08	LB133175
	Sodium	84.4	<84.4	U	84.4	P	10/28/2024	21:08	LB133175
	Thallium	1.69	<1.69	U	1.69	P	10/28/2024	21:08	LB133175
	Vanadium	1.69	<1.69	U	1.69	P	10/28/2024	21:08	LB133175
	Zinc	1.69	<1.69	U	1.69	P	10/28/2024	21:08	LB133175

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164438BL		**WATER**		**Batch Number:**	**PB164438**		**Prep Date:**	**10/26/2024**	
	Aluminum	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Antimony	25.0	<25.0	U	25.0	P	10/29/2024	18:07	LB133198
	Arsenic	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Barium	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Beryllium	3.00	<3.00	U	3.00	P	10/29/2024	18:07	LB133198
	Cadmium	3.00	<3.00	U	3.00	P	10/29/2024	18:07	LB133198
	Calcium	1000	<1000	U	1000	P	10/29/2024	18:07	LB133198
	Chromium	5.00	<5.00	U	5.00	P	10/29/2024	18:07	LB133198
	Cobalt	15.0	<15.0	U	15.0	P	10/29/2024	18:07	LB133198
	Copper	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Iron	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Lead	6.00	<6.00	U	6.00	P	10/29/2024	18:07	LB133198
	Magnesium	1000	<1000	U	1000	P	10/29/2024	18:07	LB133198
	Manganese	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Nickel	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Instrument: P4

Potassium	1000	<1000	U	1000	P	10/29/2024	18:07	LB133198
Selenium	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
Silver	5.00	<5.00	U	5.00	P	10/29/2024	18:07	LB133198
Sodium	386	<1000	J	1000	P	10/29/2024	18:07	LB133198
Thallium	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
Vanadium	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
Zinc	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV55	Mercury	3.70	4.0	92	90 - 110	CV	10/28/2024	11:09	LB133167

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV79	Mercury	5.23	5.0	105	90 - 110	CV	10/28/2024	11:16	LB133167
CCV80	Mercury	4.95	5.0	99	90 - 110	CV	10/28/2024	11:48	LB133167
CCV81	Mercury	4.98	5.0	100	90 - 110	CV	10/28/2024	12:09	LB133167

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV57	Mercury	4.16	4.0	104	90 - 110	CV	10/29/2024	10:32	LB133185

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV86	Mercury	5.13	5.0	103	90 - 110	CV	10/29/2024	10:36	LB133185
CCV87	Mercury	5.18	5.0	104	90 - 110	CV	10/29/2024	11:04	LB133185
CCV88	Mercury	5.28	5.0	106	90 - 110	CV	10/29/2024	11:32	LB133185
CCV89	Mercury	5.26	5.0	105	90 - 110	CV	10/29/2024	11:57	LB133185

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2490	2500	100	90 - 110	P	10/28/2024	12:57	LB133175
	Antimony	1020	1000	102	90 - 110	P	10/28/2024	12:57	LB133175
	Arsenic	975	1000	98	90 - 110	P	10/28/2024	12:57	LB133175
	Barium	483	520	93	90 - 110	P	10/28/2024	12:57	LB133175
	Beryllium	490	510	96	90 - 110	P	10/28/2024	12:57	LB133175
	Cadmium	494	510	97	90 - 110	P	10/28/2024	12:57	LB133175
	Calcium	9820	10000	98	90 - 110	P	10/28/2024	12:57	LB133175
	Chromium	532	520	102	90 - 110	P	10/28/2024	12:57	LB133175
	Cobalt	528	520	102	90 - 110	P	10/28/2024	12:57	LB133175
	Copper	497	510	97	90 - 110	P	10/28/2024	12:57	LB133175
	Iron	10100	10000	101	90 - 110	P	10/28/2024	12:57	LB133175
	Lead	983	1000	98	90 - 110	P	10/28/2024	12:57	LB133175
	Magnesium	5750	6000	96	90 - 110	P	10/28/2024	12:57	LB133175
	Manganese	491	520	94	90 - 110	P	10/28/2024	12:57	LB133175
	Nickel	531	530	100	90 - 110	P	10/28/2024	12:57	LB133175
	Potassium	10500	9900	106	90 - 110	P	10/28/2024	12:57	LB133175
	Selenium	1010	1000	101	90 - 110	P	10/28/2024	12:57	LB133175
	Silver	273	250	109	90 - 110	P	10/28/2024	12:57	LB133175
	Sodium	9920	10000	99	90 - 110	P	10/28/2024	12:57	LB133175
	Thallium	970	1000	97	90 - 110	P	10/28/2024	12:57	LB133175
	Vanadium	485	500	97	90 - 110	P	10/28/2024	12:57	LB133175
	Zinc	1100	1000	110	90 - 110	P	10/28/2024	12:57	LB133175

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	107	100	107	80 - 120	P	10/28/2024	13:04	LB133175
	Antimony	50.7	50.0	101	80 - 120	P	10/28/2024	13:04	LB133175
	Arsenic	18.8	20.0	94	80 - 120	P	10/28/2024	13:04	LB133175
	Barium	94.7	100	95	80 - 120	P	10/28/2024	13:04	LB133175
	Beryllium	5.67	6.0	94	80 - 120	P	10/28/2024	13:04	LB133175
	Cadmium	5.66	6.0	94	80 - 120	P	10/28/2024	13:04	LB133175
	Calcium	1960	2000	98	80 - 120	P	10/28/2024	13:04	LB133175
	Chromium	9.20	10.0	92	80 - 120	P	10/28/2024	13:04	LB133175
	Cobalt	29.9	30.0	100	80 - 120	P	10/28/2024	13:04	LB133175
	Copper	21.5	20.0	108	80 - 120	P	10/28/2024	13:04	LB133175
	Iron	107	100	107	80 - 120	P	10/28/2024	13:04	LB133175
	Lead	11.0	12.0	92	80 - 120	P	10/28/2024	13:04	LB133175
	Magnesium	1920	2000	96	80 - 120	P	10/28/2024	13:04	LB133175
	Manganese	19.2	20.0	96	80 - 120	P	10/28/2024	13:04	LB133175
	Nickel	39.8	40.0	100	80 - 120	P	10/28/2024	13:04	LB133175
	Potassium	2020	2000	101	80 - 120	P	10/28/2024	13:04	LB133175
	Selenium	18.6	20.0	93	80 - 120	P	10/28/2024	13:04	LB133175
	Silver	11.3	10.0	113	80 - 120	P	10/28/2024	13:04	LB133175
	Sodium	1850	2000	92	80 - 120	P	10/28/2024	13:04	LB133175
	Thallium	36.2	40.0	90	80 - 120	P	10/28/2024	13:04	LB133175
	Vanadium	38.7	40.0	97	80 - 120	P	10/28/2024	13:04	LB133175
	Zinc	38.8	40.0	97	80 - 120	P	10/28/2024	13:04	LB133175

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9650	10000	96	90 - 110	P	10/28/2024	13:35	LB133175
	Antimony	4940	5000	99	90 - 110	P	10/28/2024	13:35	LB133175
	Arsenic	4870	5000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Barium	9340	10000	93	90 - 110	P	10/28/2024	13:35	LB133175
	Beryllium	240	250	96	90 - 110	P	10/28/2024	13:35	LB133175
	Cadmium	2430	2500	97	90 - 110	P	10/28/2024	13:35	LB133175
	Calcium	23700	25000	95	90 - 110	P	10/28/2024	13:35	LB133175
	Chromium	969	1000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Cobalt	2420	2500	97	90 - 110	P	10/28/2024	13:35	LB133175
	Copper	1240	1250	99	90 - 110	P	10/28/2024	13:35	LB133175
	Iron	4970	5000	100	90 - 110	P	10/28/2024	13:35	LB133175
	Lead	4840	5000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	13:35	LB133175
	Manganese	2310	2500	92	90 - 110	P	10/28/2024	13:35	LB133175
	Nickel	2430	2500	97	90 - 110	P	10/28/2024	13:35	LB133175
	Potassium	25200	25000	101	90 - 110	P	10/28/2024	13:35	LB133175
	Selenium	4920	5000	98	90 - 110	P	10/28/2024	13:35	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	13:35	LB133175
	Sodium	24700	25000	99	90 - 110	P	10/28/2024	13:35	LB133175
	Thallium	4620	5000	92	90 - 110	P	10/28/2024	13:35	LB133175
	Vanadium	2390	2500	96	90 - 110	P	10/28/2024	13:35	LB133175
	Zinc	2550	2500	102	90 - 110	P	10/28/2024	13:35	LB133175
CCV02	Aluminum	9710	10000	97	90 - 110	P	10/28/2024	14:25	LB133175
	Antimony	4980	5000	100	90 - 110	P	10/28/2024	14:25	LB133175
	Arsenic	4910	5000	98	90 - 110	P	10/28/2024	14:25	LB133175
	Barium	9410	10000	94	90 - 110	P	10/28/2024	14:25	LB133175
	Beryllium	240	250	96	90 - 110	P	10/28/2024	14:25	LB133175
	Cadmium	2440	2500	98	90 - 110	P	10/28/2024	14:25	LB133175
	Calcium	23800	25000	95	90 - 110	P	10/28/2024	14:25	LB133175
	Chromium	959	1000	96	90 - 110	P	10/28/2024	14:25	LB133175
	Cobalt	2430	2500	97	90 - 110	P	10/28/2024	14:25	LB133175
	Copper	1250	1250	100	90 - 110	P	10/28/2024	14:25	LB133175
	Iron	4830	5000	97	90 - 110	P	10/28/2024	14:25	LB133175
	Lead	4860	5000	97	90 - 110	P	10/28/2024	14:25	LB133175

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23700	25000	95	90 - 110	P	10/28/2024	14:25	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	14:25	LB133175
	Nickel	2440	2500	98	90 - 110	P	10/28/2024	14:25	LB133175
	Potassium	24600	25000	98	90 - 110	P	10/28/2024	14:25	LB133175
	Selenium	4970	5000	100	90 - 110	P	10/28/2024	14:25	LB133175
	Silver	1240	1250	99	90 - 110	P	10/28/2024	14:25	LB133175
	Sodium	24100	25000	96	90 - 110	P	10/28/2024	14:25	LB133175
	Thallium	4740	5000	95	90 - 110	P	10/28/2024	14:25	LB133175
	Vanadium	2400	2500	96	90 - 110	P	10/28/2024	14:25	LB133175
	Zinc	2510	2500	100	90 - 110	P	10/28/2024	14:25	LB133175
CCV03	Aluminum	9970	10000	100	90 - 110	P	10/28/2024	15:15	LB133175
	Antimony	5180	5000	104	90 - 110	P	10/28/2024	15:15	LB133175
	Arsenic	5060	5000	101	90 - 110	P	10/28/2024	15:15	LB133175
	Barium	9730	10000	97	90 - 110	P	10/28/2024	15:15	LB133175
	Beryllium	242	250	97	90 - 110	P	10/28/2024	15:15	LB133175
	Cadmium	2470	2500	99	90 - 110	P	10/28/2024	15:15	LB133175
	Calcium	24000	25000	96	90 - 110	P	10/28/2024	15:15	LB133175
	Chromium	980	1000	98	90 - 110	P	10/28/2024	15:15	LB133175
	Cobalt	2480	2500	99	90 - 110	P	10/28/2024	15:15	LB133175
	Copper	1290	1250	104	90 - 110	P	10/28/2024	15:15	LB133175
	Iron	5000	5000	100	90 - 110	P	10/28/2024	15:15	LB133175
	Lead	4940	5000	99	90 - 110	P	10/28/2024	15:15	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	15:15	LB133175
	Manganese	2350	2500	94	90 - 110	P	10/28/2024	15:15	LB133175
	Nickel	2490	2500	100	90 - 110	P	10/28/2024	15:15	LB133175
	Potassium	26000	25000	104	90 - 110	P	10/28/2024	15:15	LB133175
	Selenium	5150	5000	103	90 - 110	P	10/28/2024	15:15	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	15:15	LB133175
	Sodium	25500	25000	102	90 - 110	P	10/28/2024	15:15	LB133175
	Thallium	4680	5000	94	90 - 110	P	10/28/2024	15:15	LB133175
	Vanadium	2450	2500	98	90 - 110	P	10/28/2024	15:15	LB133175
	Zinc	2600	2500	104	90 - 110	P	10/28/2024	15:15	LB133175
CCV04	Aluminum	9820	10000	98	90 - 110	P	10/28/2024	16:06	LB133175
	Antimony	5100	5000	102	90 - 110	P	10/28/2024	16:06	LB133175

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5020	5000	100	90 - 110	P	10/28/2024	16:06	LB133175
	Barium	9800	10000	98	90 - 110	P	10/28/2024	16:06	LB133175
	Beryllium	239	250	96	90 - 110	P	10/28/2024	16:06	LB133175
	Cadmium	2440	2500	98	90 - 110	P	10/28/2024	16:06	LB133175
	Calcium	23800	25000	95	90 - 110	P	10/28/2024	16:06	LB133175
	Chromium	974	1000	97	90 - 110	P	10/28/2024	16:06	LB133175
	Cobalt	2450	2500	98	90 - 110	P	10/28/2024	16:06	LB133175
	Copper	1270	1250	102	90 - 110	P	10/28/2024	16:06	LB133175
	Iron	4960	5000	99	90 - 110	P	10/28/2024	16:06	LB133175
	Lead	4870	5000	97	90 - 110	P	10/28/2024	16:06	LB133175
	Magnesium	23500	25000	94	90 - 110	P	10/28/2024	16:06	LB133175
	Manganese	2330	2500	93	90 - 110	P	10/28/2024	16:06	LB133175
	Nickel	2460	2500	98	90 - 110	P	10/28/2024	16:06	LB133175
	Potassium	25900	25000	104	90 - 110	P	10/28/2024	16:06	LB133175
	Selenium	5100	5000	102	90 - 110	P	10/28/2024	16:06	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	16:06	LB133175
	Sodium	25500	25000	102	90 - 110	P	10/28/2024	16:06	LB133175
	Thallium	4910	5000	98	90 - 110	P	10/28/2024	16:06	LB133175
	Vanadium	2410	2500	97	90 - 110	P	10/28/2024	16:06	LB133175
	Zinc	2560	2500	102	90 - 110	P	10/28/2024	16:06	LB133175
CCV05	Aluminum	10000	10000	100	90 - 110	P	10/28/2024	16:57	LB133175
	Antimony	5310	5000	106	90 - 110	P	10/28/2024	16:57	LB133175
	Arsenic	5210	5000	104	90 - 110	P	10/28/2024	16:57	LB133175
	Barium	9800	10000	98	90 - 110	P	10/28/2024	16:57	LB133175
	Beryllium	241	250	96	90 - 110	P	10/28/2024	16:57	LB133175
	Cadmium	2490	2500	100	90 - 110	P	10/28/2024	16:57	LB133175
	Calcium	23900	25000	96	90 - 110	P	10/28/2024	16:57	LB133175
	Chromium	965	1000	96	90 - 110	P	10/28/2024	16:57	LB133175
	Cobalt	2490	2500	100	90 - 110	P	10/28/2024	16:57	LB133175
	Copper	1310	1250	105	90 - 110	P	10/28/2024	16:57	LB133175
	Iron	4900	5000	98	90 - 110	P	10/28/2024	16:57	LB133175
	Lead	4990	5000	100	90 - 110	P	10/28/2024	16:57	LB133175
	Magnesium	23700	25000	95	90 - 110	P	10/28/2024	16:57	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	16:57	LB133175

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2500	2500	100	90 - 110	P	10/28/2024	16:57	LB133175
	Potassium	26200	25000	105	90 - 110	P	10/28/2024	16:57	LB133175
	Selenium	5400	5000	108	90 - 110	P	10/28/2024	16:57	LB133175
	Silver	1280	1250	102	90 - 110	P	10/28/2024	16:57	LB133175
	Sodium	25700	25000	103	90 - 110	P	10/28/2024	16:57	LB133175
	Thallium	5470	5000	109	90 - 110	P	10/28/2024	16:57	LB133175
	Vanadium	2420	2500	97	90 - 110	P	10/28/2024	16:57	LB133175
	Zinc	2610	2500	104	90 - 110	P	10/28/2024	16:57	LB133175
CCV06	Aluminum	9870	10000	99	90 - 110	P	10/28/2024	17:50	LB133175
	Antimony	5170	5000	103	90 - 110	P	10/28/2024	17:50	LB133175
	Arsenic	5080	5000	102	90 - 110	P	10/28/2024	17:50	LB133175
	Barium	9780	10000	98	90 - 110	P	10/28/2024	17:50	LB133175
	Beryllium	245	250	98	90 - 110	P	10/28/2024	17:50	LB133175
	Cadmium	2490	2500	100	90 - 110	P	10/28/2024	17:50	LB133175
	Calcium	24000	25000	96	90 - 110	P	10/28/2024	17:50	LB133175
	Chromium	973	1000	97	90 - 110	P	10/28/2024	17:50	LB133175
	Cobalt	2480	2500	99	90 - 110	P	10/28/2024	17:50	LB133175
	Copper	1290	1250	103	90 - 110	P	10/28/2024	17:50	LB133175
	Iron	4880	5000	98	90 - 110	P	10/28/2024	17:50	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	17:50	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	17:50	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	17:50	LB133175
	Nickel	2490	2500	100	90 - 110	P	10/28/2024	17:50	LB133175
	Potassium	25600	25000	103	90 - 110	P	10/28/2024	17:50	LB133175
	Selenium	5210	5000	104	90 - 110	P	10/28/2024	17:50	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	17:50	LB133175
	Sodium	24900	25000	99	90 - 110	P	10/28/2024	17:50	LB133175
	Thallium	5370	5000	107	90 - 110	P	10/28/2024	17:50	LB133175
	Vanadium	2410	2500	96	90 - 110	P	10/28/2024	17:50	LB133175
	Zinc	2580	2500	103	90 - 110	P	10/28/2024	17:50	LB133175
CCV07	Aluminum	9960	10000	100	90 - 110	P	10/28/2024	18:43	LB133175
	Antimony	5210	5000	104	90 - 110	P	10/28/2024	18:43	LB133175
	Arsenic	5110	5000	102	90 - 110	P	10/28/2024	18:43	LB133175
	Barium	9750	10000	98	90 - 110	P	10/28/2024	18:43	LB133175

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	243	250	97	90 - 110	P	10/28/2024	18:43	LB133175
	Cadmium	2480	2500	99	90 - 110	P	10/28/2024	18:43	LB133175
	Calcium	24000	25000	96	90 - 110	P	10/28/2024	18:43	LB133175
	Chromium	966	1000	97	90 - 110	P	10/28/2024	18:43	LB133175
	Cobalt	2490	2500	100	90 - 110	P	10/28/2024	18:43	LB133175
	Copper	1290	1250	103	90 - 110	P	10/28/2024	18:43	LB133175
	Iron	4820	5000	96	90 - 110	P	10/28/2024	18:43	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	18:43	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	18:43	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	18:43	LB133175
	Nickel	2490	2500	100	90 - 110	P	10/28/2024	18:43	LB133175
	Potassium	25600	25000	102	90 - 110	P	10/28/2024	18:43	LB133175
	Selenium	5270	5000	106	90 - 110	P	10/28/2024	18:43	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	18:43	LB133175
	Sodium	24200	25000	97	90 - 110	P	10/28/2024	18:43	LB133175
	Thallium	5500	5000	110	90 - 110	P	10/28/2024	18:43	LB133175
	Vanadium	2420	2500	97	90 - 110	P	10/28/2024	18:43	LB133175
	Zinc	2570	2500	103	90 - 110	P	10/28/2024	18:43	LB133175
CCV08	Aluminum	10300	10000	103	90 - 110	P	10/28/2024	19:33	LB133175
	Antimony	5400	5000	108	90 - 110	P	10/28/2024	19:33	LB133175
	Arsenic	5290	5000	106	90 - 110	P	10/28/2024	19:33	LB133175
	Barium	10000	10000	100	90 - 110	P	10/28/2024	19:33	LB133175
	Beryllium	251	250	100	90 - 110	P	10/28/2024	19:33	LB133175
	Cadmium	2570	2500	103	90 - 110	P	10/28/2024	19:33	LB133175
	Calcium	24700	25000	99	90 - 110	P	10/28/2024	19:33	LB133175
	Chromium	989	1000	99	90 - 110	P	10/28/2024	19:33	LB133175
	Cobalt	2570	2500	103	90 - 110	P	10/28/2024	19:33	LB133175
	Copper	1340	1250	107	90 - 110	P	10/28/2024	19:33	LB133175
	Iron	5020	5000	100	90 - 110	P	10/28/2024	19:33	LB133175
	Lead	5130	5000	103	90 - 110	P	10/28/2024	19:33	LB133175
	Magnesium	24500	25000	98	90 - 110	P	10/28/2024	19:33	LB133175
	Manganese	2360	2500	94	90 - 110	P	10/28/2024	19:33	LB133175
	Nickel	2580	2500	103	90 - 110	P	10/28/2024	19:33	LB133175
	Potassium	26700	25000	107	90 - 110	P	10/28/2024	19:33	LB133175

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	5470	5000	110	90 - 110	P	10/28/2024	19:33	LB133175
	Silver	1310	1250	105	90 - 110	P	10/28/2024	19:33	LB133175
	Sodium	25700	25000	103	90 - 110	P	10/28/2024	19:33	LB133175
	Thallium	5470	5000	109	90 - 110	P	10/28/2024	19:33	LB133175
	Vanadium	2500	2500	100	90 - 110	P	10/28/2024	19:33	LB133175
	Zinc	2680	2500	107	90 - 110	P	10/28/2024	19:33	LB133175
CCV09	Aluminum	10100	10000	101	90 - 110	P	10/28/2024	20:22	LB133175
	Antimony	5270	5000	105	90 - 110	P	10/28/2024	20:22	LB133175
	Arsenic	5200	5000	104	90 - 110	P	10/28/2024	20:22	LB133175
	Barium	9830	10000	98	90 - 110	P	10/28/2024	20:22	LB133175
	Beryllium	249	250	100	90 - 110	P	10/28/2024	20:22	LB133175
	Cadmium	2530	2500	101	90 - 110	P	10/28/2024	20:22	LB133175
	Calcium	24400	25000	97	90 - 110	P	10/28/2024	20:22	LB133175
	Chromium	975	1000	98	90 - 110	P	10/28/2024	20:22	LB133175
	Cobalt	2520	2500	101	90 - 110	P	10/28/2024	20:22	LB133175
	Copper	1310	1250	105	90 - 110	P	10/28/2024	20:22	LB133175
	Iron	4930	5000	99	90 - 110	P	10/28/2024	20:22	LB133175
	Lead	5040	5000	101	90 - 110	P	10/28/2024	20:22	LB133175
	Magnesium	24100	25000	96	90 - 110	P	10/28/2024	20:22	LB133175
	Manganese	2330	2500	93	90 - 110	P	10/28/2024	20:22	LB133175
	Nickel	2530	2500	101	90 - 110	P	10/28/2024	20:22	LB133175
	Potassium	26200	25000	105	90 - 110	P	10/28/2024	20:22	LB133175
	Selenium	5360	5000	107	90 - 110	P	10/28/2024	20:22	LB133175
	Silver	1290	1250	103	90 - 110	P	10/28/2024	20:22	LB133175
	Sodium	25500	25000	102	90 - 110	P	10/28/2024	20:22	LB133175
	Thallium	5490	5000	110	90 - 110	P	10/28/2024	20:22	LB133175
	Vanadium	2440	2500	98	90 - 110	P	10/28/2024	20:22	LB133175
	Zinc	2620	2500	105	90 - 110	P	10/28/2024	20:22	LB133175
CCV10	Aluminum	10000	10000	100	90 - 110	P	10/28/2024	21:21	LB133175
	Antimony	5270	5000	106	90 - 110	P	10/28/2024	21:21	LB133175
	Arsenic	5180	5000	104	90 - 110	P	10/28/2024	21:21	LB133175
	Barium	9840	10000	98	90 - 110	P	10/28/2024	21:21	LB133175
	Beryllium	242	250	97	90 - 110	P	10/28/2024	21:21	LB133175
	Cadmium	2500	2500	100	90 - 110	P	10/28/2024	21:21	LB133175

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	23900	25000	96	90 - 110	P	10/28/2024	21:21	LB133175
	Chromium	967	1000	97	90 - 110	P	10/28/2024	21:21	LB133175
	Cobalt	2500	2500	100	90 - 110	P	10/28/2024	21:21	LB133175
	Copper	1300	1250	104	90 - 110	P	10/28/2024	21:21	LB133175
	Iron	4860	5000	97	90 - 110	P	10/28/2024	21:21	LB133175
	Lead	4980	5000	100	90 - 110	P	10/28/2024	21:21	LB133175
	Magnesium	23600	25000	94	90 - 110	P	10/28/2024	21:21	LB133175
	Manganese	2310	2500	92	90 - 110	P	10/28/2024	21:21	LB133175
	Nickel	2500	2500	100	90 - 110	P	10/28/2024	21:21	LB133175
	Potassium	26300	25000	105	90 - 110	P	10/28/2024	21:21	LB133175
	Selenium	5330	5000	107	90 - 110	P	10/28/2024	21:21	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	21:21	LB133175
	Sodium	25700	25000	103	90 - 110	P	10/28/2024	21:21	LB133175
	Thallium	5330	5000	106	90 - 110	P	10/28/2024	21:21	LB133175
	Vanadium	2420	2500	97	90 - 110	P	10/28/2024	21:21	LB133175
	Zinc	2600	2500	104	90 - 110	P	10/28/2024	21:21	LB133175
CCV11	Aluminum	10100	10000	101	90 - 110	P	10/28/2024	21:38	LB133175
	Antimony	5340	5000	107	90 - 110	P	10/28/2024	21:38	LB133175
	Arsenic	5220	5000	104	90 - 110	P	10/28/2024	21:38	LB133175
	Barium	10100	10000	101	90 - 110	P	10/28/2024	21:38	LB133175
	Beryllium	244	250	98	90 - 110	P	10/28/2024	21:38	LB133175
	Cadmium	2480	2500	99	90 - 110	P	10/28/2024	21:38	LB133175
	Calcium	23800	25000	95	90 - 110	P	10/28/2024	21:38	LB133175
	Chromium	970	1000	97	90 - 110	P	10/28/2024	21:38	LB133175
	Cobalt	2490	2500	100	90 - 110	P	10/28/2024	21:38	LB133175
	Copper	1320	1250	106	90 - 110	P	10/28/2024	21:38	LB133175
	Iron	4970	5000	100	90 - 110	P	10/28/2024	21:38	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	21:38	LB133175
	Magnesium	23600	25000	94	90 - 110	P	10/28/2024	21:38	LB133175
	Manganese	2330	2500	93	90 - 110	P	10/28/2024	21:38	LB133175
	Nickel	2500	2500	100	90 - 110	P	10/28/2024	21:38	LB133175
	Potassium	27300	25000	109	90 - 110	P	10/28/2024	21:38	LB133175
	Selenium	5380	5000	108	90 - 110	P	10/28/2024	21:38	LB133175
	Silver	1290	1250	103	90 - 110	P	10/28/2024	21:38	LB133175

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV11	Sodium	25900	25000	104	90 - 110	P	10/28/2024	21:38	LB133175
	Thallium	5170	5000	103	90 - 110	P	10/28/2024	21:38	LB133175
	Vanadium	2440	2500	98	90 - 110	P	10/28/2024	21:38	LB133175
	Zinc	2540	2500	102	90 - 110	P	10/28/2024	21:38	LB133175

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2360	2500	94	90 - 110	P	10/29/2024	11:59	LB133198
	Antimony	982	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Arsenic	950	1000	95	90 - 110	P	10/29/2024	11:59	LB133198
	Barium	474	520	91	90 - 110	P	10/29/2024	11:59	LB133198
	Beryllium	470	510	92	90 - 110	P	10/29/2024	11:59	LB133198
	Cadmium	478	510	94	90 - 110	P	10/29/2024	11:59	LB133198
	Calcium	9360	10000	94	90 - 110	P	10/29/2024	11:59	LB133198
	Chromium	533	520	102	90 - 110	P	10/29/2024	11:59	LB133198
	Cobalt	511	520	98	90 - 110	P	10/29/2024	11:59	LB133198
	Copper	525	510	103	90 - 110	P	10/29/2024	11:59	LB133198
	Iron	10300	10000	102	90 - 110	P	10/29/2024	11:59	LB133198
	Lead	958	1000	96	90 - 110	P	10/29/2024	11:59	LB133198
	Magnesium	5490	6000	91	90 - 110	P	10/29/2024	11:59	LB133198
	Manganese	478	520	92	90 - 110	P	10/29/2024	11:59	LB133198
	Nickel	514	530	97	90 - 110	P	10/29/2024	11:59	LB133198
	Potassium	10200	9900	103	90 - 110	P	10/29/2024	11:59	LB133198
	Selenium	979	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Silver	260	250	104	90 - 110	P	10/29/2024	11:59	LB133198
	Sodium	9770	10000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Thallium	1000	1000	100	90 - 110	P	10/29/2024	11:59	LB133198
	Vanadium	461	500	92	90 - 110	P	10/29/2024	11:59	LB133198
	Zinc	1040	1000	104	90 - 110	P	10/29/2024	11:59	LB133198

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	98.6	100	99	80 - 120	P	10/29/2024	12:31	LB133198
	Antimony	50.1	50.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Arsenic	19.0	20.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Barium	94.2	100	94	80 - 120	P	10/29/2024	12:31	LB133198
	Beryllium	5.69	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Cadmium	5.68	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Calcium	1950	2000	98	80 - 120	P	10/29/2024	12:31	LB133198
	Chromium	10.2	10.0	102	80 - 120	P	10/29/2024	12:31	LB133198
	Cobalt	30.2	30.0	101	80 - 120	P	10/29/2024	12:31	LB133198
	Copper	21.7	20.0	108	80 - 120	P	10/29/2024	12:31	LB133198
	Iron	105	100	105	80 - 120	P	10/29/2024	12:31	LB133198
	Lead	9.73	12.0	81	80 - 120	P	10/29/2024	12:31	LB133198
	Magnesium	1930	2000	97	80 - 120	P	10/29/2024	12:31	LB133198
	Manganese	19.6	20.0	98	80 - 120	P	10/29/2024	12:31	LB133198
	Nickel	40.0	40.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Potassium	1890	2000	95	80 - 120	P	10/29/2024	12:31	LB133198
	Selenium	20.1	20.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Silver	11.2	10.0	112	80 - 120	P	10/29/2024	12:31	LB133198
	Sodium	1800	2000	90	80 - 120	P	10/29/2024	12:31	LB133198
	Thallium	36.2	40.0	91	80 - 120	P	10/29/2024	12:31	LB133198
	Vanadium	37.8	40.0	94	80 - 120	P	10/29/2024	12:31	LB133198
	Zinc	38.9	40.0	97	80 - 120	P	10/29/2024	12:31	LB133198

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9640	10000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Antimony	4940	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Arsenic	4910	5000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Barium	9460	10000	95	90 - 110	P	10/29/2024	13:01	LB133198
	Beryllium	238	250	95	90 - 110	P	10/29/2024	13:01	LB133198
	Cadmium	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Calcium	23700	25000	95	90 - 110	P	10/29/2024	13:01	LB133198
	Chromium	994	1000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Cobalt	2440	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Copper	1250	1250	100	90 - 110	P	10/29/2024	13:01	LB133198
	Iron	4810	5000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Lead	4870	5000	97	90 - 110	P	10/29/2024	13:01	LB133198
	Magnesium	23600	25000	94	90 - 110	P	10/29/2024	13:01	LB133198
	Manganese	2320	2500	93	90 - 110	P	10/29/2024	13:01	LB133198
	Nickel	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Potassium	24500	25000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Selenium	4950	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	13:01	LB133198
	Sodium	24100	25000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Thallium	4690	5000	94	90 - 110	P	10/29/2024	13:01	LB133198
	Vanadium	2390	2500	96	90 - 110	P	10/29/2024	13:01	LB133198
	Zinc	2510	2500	100	90 - 110	P	10/29/2024	13:01	LB133198
CCV02	Aluminum	10800	10000	108	90 - 110	P	10/29/2024	14:04	LB133198
	Antimony	4810	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Arsenic	4780	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Barium	9090	10000	91	90 - 110	P	10/29/2024	14:04	LB133198
	Beryllium	241	250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Cadmium	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Calcium	26400	25000	105	90 - 110	P	10/29/2024	14:04	LB133198
	Chromium	946	1000	95	90 - 110	P	10/29/2024	14:04	LB133198
	Cobalt	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Copper	1200	1250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Iron	4590	5000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Lead	4670	5000	93	90 - 110	P	10/29/2024	14:04	LB133198

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	25000	25000	100	90 - 110	P	10/29/2024	14:04	LB133198
	Manganese	2560	2500	103	90 - 110	P	10/29/2024	14:04	LB133198
	Nickel	2340	2500	94	90 - 110	P	10/29/2024	14:04	LB133198
	Potassium	23600	25000	94	90 - 110	P	10/29/2024	14:04	LB133198
	Selenium	4870	5000	97	90 - 110	P	10/29/2024	14:04	LB133198
	Silver	1170	1250	94	90 - 110	P	10/29/2024	14:04	LB133198
	Sodium	23000	25000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Thallium	5060	5000	101	90 - 110	P	10/29/2024	14:04	LB133198
	Vanadium	2260	2500	90	90 - 110	P	10/29/2024	14:04	LB133198
	Zinc	2390	2500	96	90 - 110	P	10/29/2024	14:04	LB133198
CCV03	Aluminum	10300	10000	103	90 - 110	P	10/29/2024	15:02	LB133198
	Antimony	5010	5000	100	90 - 110	P	10/29/2024	15:02	LB133198
	Arsenic	5490	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Barium	10400	10000	104	90 - 110	P	10/29/2024	15:02	LB133198
	Beryllium	235	250	94	90 - 110	P	10/29/2024	15:02	LB133198
	Cadmium	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Calcium	25400	25000	102	90 - 110	P	10/29/2024	15:02	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:02	LB133198
	Cobalt	2520	2500	101	90 - 110	P	10/29/2024	15:02	LB133198
	Copper	1130	1250	90	90 - 110	P	10/29/2024	15:02	LB133198
	Iron	5480	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Lead	4700	5000	94	90 - 110	P	10/29/2024	15:02	LB133198
	Magnesium	24000	25000	96	90 - 110	P	10/29/2024	15:02	LB133198
	Manganese	2450	2500	98	90 - 110	P	10/29/2024	15:02	LB133198
	Nickel	2580	2500	103	90 - 110	P	10/29/2024	15:02	LB133198
	Potassium	26900	25000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Selenium	4530	5000	91	90 - 110	P	10/29/2024	15:02	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	15:02	LB133198
	Sodium	23300	25000	93	90 - 110	P	10/29/2024	15:02	LB133198
	Thallium	5410	5000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Vanadium	2650	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Zinc	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
CCV04	Aluminum	10200	10000	102	90 - 110	P	10/29/2024	15:59	LB133198
	Antimony	4760	5000	95	90 - 110	P	10/29/2024	15:59	LB133198

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5440	5000	109	90 - 110	P	10/29/2024	15:59	LB133198
	Barium	10300	10000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Beryllium	225	250	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cadmium	2640	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Calcium	25800	25000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cobalt	2480	2500	99	90 - 110	P	10/29/2024	15:59	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	15:59	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	15:59	LB133198
	Lead	4620	5000	92	90 - 110	P	10/29/2024	15:59	LB133198
	Magnesium	24400	25000	98	90 - 110	P	10/29/2024	15:59	LB133198
	Manganese	2490	2500	100	90 - 110	P	10/29/2024	15:59	LB133198
	Nickel	2540	2500	102	90 - 110	P	10/29/2024	15:59	LB133198
	Potassium	25700	25000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Selenium	4680	5000	94	90 - 110	P	10/29/2024	15:59	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	15:59	LB133198
	Sodium	22600	25000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Thallium	4990	5000	100	90 - 110	P	10/29/2024	15:59	LB133198
	Vanadium	2660	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Zinc	2610	2500	104	90 - 110	P	10/29/2024	15:59	LB133198
CCV05	Aluminum	10400	10000	104	90 - 110	P	10/29/2024	16:53	LB133198
	Antimony	4760	5000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Arsenic	5450	5000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Beryllium	231	250	92	90 - 110	P	10/29/2024	16:53	LB133198
	Cadmium	2630	2500	105	90 - 110	P	10/29/2024	16:53	LB133198
	Calcium	26400	25000	105	90 - 110	P	10/29/2024	16:53	LB133198
	Chromium	928	1000	93	90 - 110	P	10/29/2024	16:53	LB133198
	Cobalt	2470	2500	99	90 - 110	P	10/29/2024	16:53	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	16:53	LB133198
	Iron	5380	5000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Lead	4590	5000	92	90 - 110	P	10/29/2024	16:53	LB133198
	Magnesium	24800	25000	99	90 - 110	P	10/29/2024	16:53	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	16:53	LB133198

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2530	2500	101	90 - 110	P	10/29/2024	16:53	LB133198
	Potassium	27200	25000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Selenium	4690	5000	94	90 - 110	P	10/29/2024	16:53	LB133198
	Silver	1140	1250	91	90 - 110	P	10/29/2024	16:53	LB133198
	Sodium	23800	25000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Thallium	5020	5000	100	90 - 110	P	10/29/2024	16:53	LB133198
	Vanadium	2710	2500	109	90 - 110	P	10/29/2024	16:53	LB133198
	Zinc	2280	2500	91	90 - 110	P	10/29/2024	16:53	LB133198
CCV06	Aluminum	9860	10000	99	90 - 110	P	10/29/2024	17:53	LB133198
	Antimony	4670	5000	93	90 - 110	P	10/29/2024	17:53	LB133198
	Arsenic	5370	5000	107	90 - 110	P	10/29/2024	17:53	LB133198
	Barium	10600	10000	106	90 - 110	P	10/29/2024	17:53	LB133198
	Beryllium	245	250	98	90 - 110	P	10/29/2024	17:53	LB133198
	Cadmium	2600	2500	104	90 - 110	P	10/29/2024	17:53	LB133198
	Calcium	25100	25000	100	90 - 110	P	10/29/2024	17:53	LB133198
	Chromium	915	1000	92	90 - 110	P	10/29/2024	17:53	LB133198
	Cobalt	2430	2500	97	90 - 110	P	10/29/2024	17:53	LB133198
	Copper	1200	1250	96	90 - 110	P	10/29/2024	17:53	LB133198
	Iron	5130	5000	103	90 - 110	P	10/29/2024	17:53	LB133198
	Lead	4570	5000	91	90 - 110	P	10/29/2024	17:53	LB133198
	Magnesium	24200	25000	97	90 - 110	P	10/29/2024	17:53	LB133198
	Manganese	2400	2500	96	90 - 110	P	10/29/2024	17:53	LB133198
	Nickel	2490	2500	100	90 - 110	P	10/29/2024	17:53	LB133198
	Potassium	24700	25000	99	90 - 110	P	10/29/2024	17:53	LB133198
	Selenium	4700	5000	94	90 - 110	P	10/29/2024	17:53	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	17:53	LB133198
	Sodium	24000	25000	96	90 - 110	P	10/29/2024	17:53	LB133198
	Thallium	5450	5000	109	90 - 110	P	10/29/2024	17:53	LB133198
	Vanadium	2570	2500	103	90 - 110	P	10/29/2024	17:53	LB133198
	Zinc	2670	2500	107	90 - 110	P	10/29/2024	17:53	LB133198
CCV07	Aluminum	10400	10000	104	90 - 110	P	10/29/2024	18:20	LB133198
	Antimony	4930	5000	99	90 - 110	P	10/29/2024	18:20	LB133198
	Arsenic	5470	5000	109	90 - 110	P	10/29/2024	18:20	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	18:20	LB133198

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	235	250	94	90 - 110	P	10/29/2024	18:20	LB133198
	Cadmium	2320	2500	93	90 - 110	P	10/29/2024	18:20	LB133198
	Calcium	26400	25000	105	90 - 110	P	10/29/2024	18:20	LB133198
	Chromium	933	1000	93	90 - 110	P	10/29/2024	18:20	LB133198
	Cobalt	2280	2500	91	90 - 110	P	10/29/2024	18:20	LB133198
	Copper	1270	1250	102	90 - 110	P	10/29/2024	18:20	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Lead	4600	5000	92	90 - 110	P	10/29/2024	18:20	LB133198
	Magnesium	25200	25000	101	90 - 110	P	10/29/2024	18:20	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	18:20	LB133198
	Nickel	2290	2500	92	90 - 110	P	10/29/2024	18:20	LB133198
	Potassium	26200	25000	105	90 - 110	P	10/29/2024	18:20	LB133198
	Selenium	5390	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Silver	1130	1250	91	90 - 110	P	10/29/2024	18:20	LB133198
	Sodium	22500	25000	90	90 - 110	P	10/29/2024	18:20	LB133198
	Thallium	4880	5000	98	90 - 110	P	10/29/2024	18:20	LB133198
	Vanadium	2690	2500	108	90 - 110	P	10/29/2024	18:20	LB133198
	Zinc	2260	2500	90	90 - 110	P	10/29/2024	18:20	LB133198

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2550	2500	102	90 - 110	P	11/08/2024	13:59	LB133365
	Antimony	979	1000	98	90 - 110	P	11/08/2024	13:59	LB133365
	Arsenic	1000	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Barium	513	520	99	90 - 110	P	11/08/2024	13:59	LB133365
	Beryllium	511	510	100	90 - 110	P	11/08/2024	13:59	LB133365
	Cadmium	497	510	97	90 - 110	P	11/08/2024	13:59	LB133365
	Calcium	10100	10000	101	90 - 110	P	11/08/2024	13:59	LB133365
	Chromium	514	520	99	90 - 110	P	11/08/2024	13:59	LB133365
	Cobalt	506	520	97	90 - 110	P	11/08/2024	13:59	LB133365
	Copper	521	510	102	90 - 110	P	11/08/2024	13:59	LB133365
	Iron	9660	10000	97	90 - 110	P	11/08/2024	13:59	LB133365
	Lead	999	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Magnesium	5940	6000	99	90 - 110	P	11/08/2024	13:59	LB133365
	Manganese	519	520	100	90 - 110	P	11/08/2024	13:59	LB133365
	Nickel	509	530	96	90 - 110	P	11/08/2024	13:59	LB133365
	Potassium	9550	9900	96	90 - 110	P	11/08/2024	13:59	LB133365
	Selenium	1000	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Silver	251	250	100	90 - 110	P	11/08/2024	13:59	LB133365
	Sodium	9170	10000	92	90 - 110	P	11/08/2024	13:59	LB133365
	Thallium	975	1000	98	90 - 110	P	11/08/2024	13:59	LB133365
	Vanadium	496	500	99	90 - 110	P	11/08/2024	13:59	LB133365
	Zinc	1030	1000	103	90 - 110	P	11/08/2024	13:59	LB133365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	109	100	109	80 - 120	P	11/08/2024	14:11	LB133365
	Antimony	48.4	50.0	97	80 - 120	P	11/08/2024	14:11	LB133365
	Arsenic	19.5	20.0	98	80 - 120	P	11/08/2024	14:11	LB133365
	Barium	95.3	100	95	80 - 120	P	11/08/2024	14:11	LB133365
	Beryllium	5.66	6.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Cadmium	6.34	6.0	106	80 - 120	P	11/08/2024	14:11	LB133365
	Calcium	1970	2000	98	80 - 120	P	11/08/2024	14:11	LB133365
	Chromium	9.48	10.0	95	80 - 120	P	11/08/2024	14:11	LB133365
	Cobalt	28.3	30.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Copper	22.8	20.0	114	80 - 120	P	11/08/2024	14:11	LB133365
	Iron	93.6	100	94	80 - 120	P	11/08/2024	14:11	LB133365
	Lead	11.8	12.0	99	80 - 120	P	11/08/2024	14:11	LB133365
	Magnesium	1950	2000	98	80 - 120	P	11/08/2024	14:11	LB133365
	Manganese	19.8	20.0	99	80 - 120	P	11/08/2024	14:11	LB133365
	Nickel	37.8	40.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Potassium	1870	2000	94	80 - 120	P	11/08/2024	14:11	LB133365
	Selenium	20.6	20.0	103	80 - 120	P	11/08/2024	14:11	LB133365
	Silver	10.6	10.0	106	80 - 120	P	11/08/2024	14:11	LB133365
	Sodium	1630	2000	82	80 - 120	P	11/08/2024	14:11	LB133365
	Thallium	37.6	40.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Vanadium	38.6	40.0	96	80 - 120	P	11/08/2024	14:11	LB133365
	Zinc	42.1	40.0	105	80 - 120	P	11/08/2024	14:11	LB133365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9960	10000	100	90 - 110	P	11/08/2024	14:44	LB133365
	Antimony	5040	5000	101	90 - 110	P	11/08/2024	14:44	LB133365
	Arsenic	4950	5000	99	90 - 110	P	11/08/2024	14:44	LB133365
	Barium	9530	10000	95	90 - 110	P	11/08/2024	14:44	LB133365
	Beryllium	241	250	96	90 - 110	P	11/08/2024	14:44	LB133365
	Cadmium	2390	2500	96	90 - 110	P	11/08/2024	14:44	LB133365
	Calcium	24100	25000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Chromium	1050	1000	105	90 - 110	P	11/08/2024	14:44	LB133365
	Cobalt	2420	2500	97	90 - 110	P	11/08/2024	14:44	LB133365
	Copper	1260	1250	101	90 - 110	P	11/08/2024	14:44	LB133365
	Iron	4850	5000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Lead	4870	5000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Magnesium	24200	25000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Manganese	2370	2500	95	90 - 110	P	11/08/2024	14:44	LB133365
	Nickel	2440	2500	97	90 - 110	P	11/08/2024	14:44	LB133365
	Potassium	24600	25000	98	90 - 110	P	11/08/2024	14:44	LB133365
	Selenium	5020	5000	100	90 - 110	P	11/08/2024	14:44	LB133365
	Silver	1230	1250	99	90 - 110	P	11/08/2024	14:44	LB133365
	Sodium	24300	25000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Thallium	4770	5000	95	90 - 110	P	11/08/2024	14:44	LB133365
	Vanadium	2450	2500	98	90 - 110	P	11/08/2024	14:44	LB133365
	Zinc	2530	2500	101	90 - 110	P	11/08/2024	14:44	LB133365
CCV02	Aluminum	9830	10000	98	90 - 110	P	11/08/2024	15:29	LB133365
	Antimony	5060	5000	101	90 - 110	P	11/08/2024	15:29	LB133365
	Arsenic	4950	5000	99	90 - 110	P	11/08/2024	15:29	LB133365
	Barium	9460	10000	95	90 - 110	P	11/08/2024	15:29	LB133365
	Beryllium	231	250	92	90 - 110	P	11/08/2024	15:29	LB133365
	Cadmium	2360	2500	94	90 - 110	P	11/08/2024	15:29	LB133365
	Calcium	23300	25000	93	90 - 110	P	11/08/2024	15:29	LB133365
	Chromium	918	1000	92	90 - 110	P	11/08/2024	15:29	LB133365
	Cobalt	2390	2500	96	90 - 110	P	11/08/2024	15:29	LB133365
	Copper	1260	1250	101	90 - 110	P	11/08/2024	15:29	LB133365
	Iron	4780	5000	96	90 - 110	P	11/08/2024	15:29	LB133365
	Lead	4800	5000	96	90 - 110	P	11/08/2024	15:29	LB133365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23400	25000	94	90 - 110	P	11/08/2024	15:29	LB133365
	Manganese	2280	2500	91	90 - 110	P	11/08/2024	15:29	LB133365
	Nickel	2390	2500	96	90 - 110	P	11/08/2024	15:29	LB133365
	Potassium	25100	25000	100	90 - 110	P	11/08/2024	15:29	LB133365
	Selenium	5080	5000	102	90 - 110	P	11/08/2024	15:29	LB133365
	Silver	1230	1250	98	90 - 110	P	11/08/2024	15:29	LB133365
	Sodium	24500	25000	98	90 - 110	P	11/08/2024	15:29	LB133365
	Thallium	5010	5000	100	90 - 110	P	11/08/2024	15:29	LB133365
	Vanadium	2390	2500	96	90 - 110	P	11/08/2024	15:29	LB133365
	Zinc	2520	2500	101	90 - 110	P	11/08/2024	15:29	LB133365
CCV03	Aluminum	9930	10000	99	90 - 110	P	11/08/2024	16:23	LB133365
	Antimony	5110	5000	102	90 - 110	P	11/08/2024	16:23	LB133365
	Arsenic	4980	5000	100	90 - 110	P	11/08/2024	16:23	LB133365
	Barium	9610	10000	96	90 - 110	P	11/08/2024	16:23	LB133365
	Beryllium	234	250	94	90 - 110	P	11/08/2024	16:23	LB133365
	Cadmium	2380	2500	95	90 - 110	P	11/08/2024	16:23	LB133365
	Calcium	23600	25000	94	90 - 110	P	11/08/2024	16:23	LB133365
	Chromium	930	1000	93	90 - 110	P	11/08/2024	16:23	LB133365
	Cobalt	2410	2500	96	90 - 110	P	11/08/2024	16:23	LB133365
	Copper	1270	1250	101	90 - 110	P	11/08/2024	16:23	LB133365
	Iron	4880	5000	98	90 - 110	P	11/08/2024	16:23	LB133365
	Lead	4840	5000	97	90 - 110	P	11/08/2024	16:23	LB133365
	Magnesium	23700	25000	95	90 - 110	P	11/08/2024	16:23	LB133365
	Manganese	2390	2500	96	90 - 110	P	11/08/2024	16:23	LB133365
	Nickel	2410	2500	96	90 - 110	P	11/08/2024	16:23	LB133365
	Potassium	25600	25000	102	90 - 110	P	11/08/2024	16:23	LB133365
	Selenium	5130	5000	103	90 - 110	P	11/08/2024	16:23	LB133365
	Silver	1250	1250	100	90 - 110	P	11/08/2024	16:23	LB133365
	Sodium	25100	25000	100	90 - 110	P	11/08/2024	16:23	LB133365
	Thallium	5140	5000	103	90 - 110	P	11/08/2024	16:23	LB133365
	Vanadium	2420	2500	97	90 - 110	P	11/08/2024	16:23	LB133365
	Zinc	2560	2500	102	90 - 110	P	11/08/2024	16:23	LB133365
CCV04	Aluminum	9690	10000	97	90 - 110	P	11/08/2024	17:16	LB133365
	Antimony	5290	5000	106	90 - 110	P	11/08/2024	17:16	LB133365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5190	5000	104	90 - 110	P	11/08/2024	17:16	LB133365
	Barium	9360	10000	94	90 - 110	P	11/08/2024	17:16	LB133365
	Beryllium	227	250	91	90 - 110	P	11/08/2024	17:16	LB133365
	Cadmium	2420	2500	97	90 - 110	P	11/08/2024	17:16	LB133365
	Calcium	22800	25000	91	90 - 110	P	11/08/2024	17:16	LB133365
	Chromium	927	1000	93	90 - 110	P	11/08/2024	17:16	LB133365
	Cobalt	2450	2500	98	90 - 110	P	11/08/2024	17:16	LB133365
	Copper	1310	1250	105	90 - 110	P	11/08/2024	17:16	LB133365
	Iron	4860	5000	97	90 - 110	P	11/08/2024	17:16	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	17:16	LB133365
	Magnesium	23000	25000	92	90 - 110	P	11/08/2024	17:16	LB133365
	Manganese	2310	2500	93	90 - 110	P	11/08/2024	17:16	LB133365
	Nickel	2460	2500	98	90 - 110	P	11/08/2024	17:16	LB133365
	Potassium	25800	25000	103	90 - 110	P	11/08/2024	17:16	LB133365
	Selenium	5360	5000	107	90 - 110	P	11/08/2024	17:16	LB133365
	Silver	1260	1250	101	90 - 110	P	11/08/2024	17:16	LB133365
	Sodium	24500	25000	98	90 - 110	P	11/08/2024	17:16	LB133365
	Thallium	5230	5000	105	90 - 110	P	11/08/2024	17:16	LB133365
	Vanadium	2350	2500	94	90 - 110	P	11/08/2024	17:16	LB133365
	Zinc	2610	2500	104	90 - 110	P	11/08/2024	17:16	LB133365
CCV05	Aluminum	9880	10000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Antimony	5230	5000	104	90 - 110	P	11/08/2024	18:04	LB133365
	Arsenic	5110	5000	102	90 - 110	P	11/08/2024	18:04	LB133365
	Barium	9290	10000	93	90 - 110	P	11/08/2024	18:04	LB133365
	Beryllium	234	250	94	90 - 110	P	11/08/2024	18:04	LB133365
	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	18:04	LB133365
	Calcium	23500	25000	94	90 - 110	P	11/08/2024	18:04	LB133365
	Chromium	906	1000	91	90 - 110	P	11/08/2024	18:04	LB133365
	Cobalt	2460	2500	98	90 - 110	P	11/08/2024	18:04	LB133365
	Copper	1290	1250	103	90 - 110	P	11/08/2024	18:04	LB133365
	Iron	4750	5000	95	90 - 110	P	11/08/2024	18:04	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Magnesium	23700	25000	95	90 - 110	P	11/08/2024	18:04	LB133365
	Manganese	2280	2500	91	90 - 110	P	11/08/2024	18:04	LB133365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2460	2500	98	90 - 110	P	11/08/2024	18:04	LB133365
	Potassium	24800	25000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Selenium	5280	5000	106	90 - 110	P	11/08/2024	18:04	LB133365
	Silver	1230	1250	99	90 - 110	P	11/08/2024	18:04	LB133365
	Sodium	23400	25000	94	90 - 110	P	11/08/2024	18:04	LB133365
	Thallium	5280	5000	106	90 - 110	P	11/08/2024	18:04	LB133365
	Vanadium	2410	2500	96	90 - 110	P	11/08/2024	18:04	LB133365
	Zinc	2540	2500	102	90 - 110	P	11/08/2024	18:04	LB133365
CCV06	Aluminum	9790	10000	98	90 - 110	P	11/08/2024	18:55	LB133365
	Antimony	5070	5000	101	90 - 110	P	11/08/2024	18:55	LB133365
	Arsenic	4970	5000	100	90 - 110	P	11/08/2024	18:55	LB133365
	Barium	9460	10000	95	90 - 110	P	11/08/2024	18:55	LB133365
	Beryllium	236	250	95	90 - 110	P	11/08/2024	18:55	LB133365
	Cadmium	2360	2500	95	90 - 110	P	11/08/2024	18:55	LB133365
	Calcium	23500	25000	94	90 - 110	P	11/08/2024	18:55	LB133365
	Chromium	923	1000	92	90 - 110	P	11/08/2024	18:55	LB133365
	Cobalt	2400	2500	96	90 - 110	P	11/08/2024	18:55	LB133365
	Copper	1250	1250	100	90 - 110	P	11/08/2024	18:55	LB133365
	Iron	4700	5000	94	90 - 110	P	11/08/2024	18:55	LB133365
	Lead	4830	5000	97	90 - 110	P	11/08/2024	18:55	LB133365
	Magnesium	23500	25000	94	90 - 110	P	11/08/2024	18:55	LB133365
	Manganese	2290	2500	92	90 - 110	P	11/08/2024	18:55	LB133365
	Nickel	2400	2500	96	90 - 110	P	11/08/2024	18:55	LB133365
	Potassium	24500	25000	98	90 - 110	P	11/08/2024	18:55	LB133365
	Selenium	5100	5000	102	90 - 110	P	11/08/2024	18:55	LB133365
	Silver	1220	1250	98	90 - 110	P	11/08/2024	18:55	LB133365
	Sodium	23900	25000	96	90 - 110	P	11/08/2024	18:55	LB133365
	Thallium	4990	5000	100	90 - 110	P	11/08/2024	18:55	LB133365
	Vanadium	2390	2500	96	90 - 110	P	11/08/2024	18:55	LB133365
	Zinc	2530	2500	101	90 - 110	P	11/08/2024	18:55	LB133365
CCV07	Aluminum	10100	10000	101	90 - 110	P	11/08/2024	19:47	LB133365
	Antimony	5180	5000	104	90 - 110	P	11/08/2024	19:47	LB133365
	Arsenic	5060	5000	101	90 - 110	P	11/08/2024	19:47	LB133365
	Barium	9520	10000	95	90 - 110	P	11/08/2024	19:47	LB133365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	243	250	97	90 - 110	P	11/08/2024	19:47	LB133365
	Cadmium	2400	2500	96	90 - 110	P	11/08/2024	19:47	LB133365
	Calcium	24000	25000	96	90 - 110	P	11/08/2024	19:47	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	19:47	LB133365
	Cobalt	2440	2500	98	90 - 110	P	11/08/2024	19:47	LB133365
	Copper	1280	1250	102	90 - 110	P	11/08/2024	19:47	LB133365
	Iron	4710	5000	94	90 - 110	P	11/08/2024	19:47	LB133365
	Lead	4910	5000	98	90 - 110	P	11/08/2024	19:47	LB133365
	Magnesium	24100	25000	97	90 - 110	P	11/08/2024	19:47	LB133365
	Manganese	2310	2500	92	90 - 110	P	11/08/2024	19:47	LB133365
	Nickel	2440	2500	98	90 - 110	P	11/08/2024	19:47	LB133365
	Potassium	25000	25000	100	90 - 110	P	11/08/2024	19:47	LB133365
	Selenium	5210	5000	104	90 - 110	P	11/08/2024	19:47	LB133365
	Silver	1250	1250	100	90 - 110	P	11/08/2024	19:47	LB133365
	Sodium	24600	25000	98	90 - 110	P	11/08/2024	19:47	LB133365
	Thallium	5050	5000	101	90 - 110	P	11/08/2024	19:47	LB133365
	Vanadium	2440	2500	98	90 - 110	P	11/08/2024	19:47	LB133365
	Zinc	2580	2500	103	90 - 110	P	11/08/2024	19:47	LB133365
CCV08	Aluminum	9430	10000	94	90 - 110	P	11/08/2024	20:48	LB133365
	Antimony	4620	5000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Arsenic	4620	5000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Barium	9200	10000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Beryllium	257	250	103	90 - 110	P	11/08/2024	20:48	LB133365
	Cadmium	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Calcium	24000	25000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Cobalt	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Copper	1170	1250	94	90 - 110	P	11/08/2024	20:48	LB133365
	Iron	4520	5000	90	90 - 110	P	11/08/2024	20:48	LB133365
	Lead	4790	5000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Magnesium	24600	25000	98	90 - 110	P	11/08/2024	20:48	LB133365
	Manganese	2300	2500	92	90 - 110	P	11/08/2024	20:48	LB133365
	Nickel	2380	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Potassium	25700	25000	103	90 - 110	P	11/08/2024	20:48	LB133365

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4670	5000	93	90 - 110	P	11/08/2024	20:48	LB133365
	Silver	1190	1250	95	90 - 110	P	11/08/2024	20:48	LB133365
	Sodium	24200	25000	97	90 - 110	P	11/08/2024	20:48	LB133365
	Thallium	4810	5000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Vanadium	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Zinc	2380	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
CCV09	Aluminum	9360	10000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Antimony	4620	5000	92	90 - 110	P	11/08/2024	21:50	LB133365
	Arsenic	4610	5000	92	90 - 110	P	11/08/2024	21:50	LB133365
	Barium	9110	10000	91	90 - 110	P	11/08/2024	21:50	LB133365
	Beryllium	251	250	100	90 - 110	P	11/08/2024	21:50	LB133365
	Cadmium	2310	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Calcium	23600	25000	95	90 - 110	P	11/08/2024	21:50	LB133365
	Chromium	902	1000	90	90 - 110	P	11/08/2024	21:50	LB133365
	Cobalt	2330	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Copper	1160	1250	93	90 - 110	P	11/08/2024	21:50	LB133365
	Iron	5470	5000	109	90 - 110	P	11/08/2024	21:50	LB133365
	Lead	4710	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Magnesium	24200	25000	97	90 - 110	P	11/08/2024	21:50	LB133365
	Manganese	2270	2500	91	90 - 110	P	11/08/2024	21:50	LB133365
	Nickel	2330	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Potassium	25800	25000	103	90 - 110	P	11/08/2024	21:50	LB133365
	Selenium	4690	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Silver	1190	1250	95	90 - 110	P	11/08/2024	21:50	LB133365
	Sodium	23900	25000	96	90 - 110	P	11/08/2024	21:50	LB133365
	Thallium	4710	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Vanadium	2350	2500	94	90 - 110	P	11/08/2024	21:50	LB133365
	Zinc	2420	2500	97	90 - 110	P	11/08/2024	21:50	LB133365
CCV10	Aluminum	10100	10000	101	90 - 110	P	11/08/2024	23:24	LB133365
	Antimony	4640	5000	93	90 - 110	P	11/08/2024	23:24	LB133365
	Arsenic	5340	5000	107	90 - 110	P	11/08/2024	23:24	LB133365
	Barium	9550	10000	96	90 - 110	P	11/08/2024	23:24	LB133365
	Beryllium	259	250	104	90 - 110	P	11/08/2024	23:24	LB133365
	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	23:24	LB133365

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	22800	25000	91	90 - 110	P	11/08/2024	23:24	LB133365
	Chromium	1000	1000	100	90 - 110	P	11/08/2024	23:24	LB133365
	Cobalt	2530	2500	101	90 - 110	P	11/08/2024	23:24	LB133365
	Copper	1130	1250	91	90 - 110	P	11/08/2024	23:24	LB133365
	Iron	5150	5000	103	90 - 110	P	11/08/2024	23:24	LB133365
	Lead	4980	5000	100	90 - 110	P	11/08/2024	23:24	LB133365
	Magnesium	24100	25000	96	90 - 110	P	11/08/2024	23:24	LB133365
	Manganese	2380	2500	95	90 - 110	P	11/08/2024	23:24	LB133365
	Nickel	2360	2500	94	90 - 110	P	11/08/2024	23:24	LB133365
	Potassium	26300	25000	105	90 - 110	P	11/08/2024	23:24	LB133365
	Selenium	4900	5000	98	90 - 110	P	11/08/2024	23:24	LB133365
	Silver	1270	1250	102	90 - 110	P	11/08/2024	23:24	LB133365
	Sodium	26100	25000	104	90 - 110	P	11/08/2024	23:24	LB133365
	Thallium	4930	5000	98	90 - 110	P	11/08/2024	23:24	LB133365
	Vanadium	2610	2500	104	90 - 110	P	11/08/2024	23:24	LB133365
	Zinc	2690	2500	108	90 - 110	P	11/08/2024	23:24	LB133365

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.18	0.2	88	40 - 160	CV	10/28/2024	11:23	LB133167
CRI01	Aluminum	102	100	102	40 - 160	P	10/28/2024	13:12	LB133175
	Antimony	50.0	50.0	100	40 - 160	P	10/28/2024	13:12	LB133175
	Arsenic	19.1	20.0	96	40 - 160	P	10/28/2024	13:12	LB133175
	Barium	93.7	100	94	40 - 160	P	10/28/2024	13:12	LB133175
	Beryllium	5.64	6.0	94	40 - 160	P	10/28/2024	13:12	LB133175
	Cadmium	5.55	6.0	92	40 - 160	P	10/28/2024	13:12	LB133175
	Calcium	1930	2000	96	40 - 160	P	10/28/2024	13:12	LB133175
	Chromium	9.13	10.0	91	40 - 160	P	10/28/2024	13:12	LB133175
	Cobalt	29.3	30.0	98	40 - 160	P	10/28/2024	13:12	LB133175
	Copper	21.1	20.0	105	40 - 160	P	10/28/2024	13:12	LB133175
	Iron	98.8	100	99	40 - 160	P	10/28/2024	13:12	LB133175
	Lead	11.5	12.0	96	40 - 160	P	10/28/2024	13:12	LB133175
	Magnesium	1900	2000	95	40 - 160	P	10/28/2024	13:12	LB133175
	Manganese	19.1	20.0	95	40 - 160	P	10/28/2024	13:12	LB133175
	Nickel	39.2	40.0	98	40 - 160	P	10/28/2024	13:12	LB133175
	Potassium	1940	2000	97	40 - 160	P	10/28/2024	13:12	LB133175
	Selenium	17.6	20.0	88	40 - 160	P	10/28/2024	13:12	LB133175
	Silver	11.0	10.0	110	40 - 160	P	10/28/2024	13:12	LB133175
	Sodium	1780	2000	89	40 - 160	P	10/28/2024	13:12	LB133175
	Thallium	34.9	40.0	87	40 - 160	P	10/28/2024	13:12	LB133175
	Vanadium	36.9	40.0	92	40 - 160	P	10/28/2024	13:12	LB133175
	Zinc	37.3	40.0	93	40 - 160	P	10/28/2024	13:12	LB133175
CRA	Mercury	0.20	0.2	98	40 - 160	CV	10/29/2024	10:41	LB133185
CRI01	Aluminum	94.3	100	94	40 - 160	P	10/29/2024	12:40	LB133198
	Antimony	47.7	50.0	95	40 - 160	P	10/29/2024	12:40	LB133198
	Arsenic	18.4	20.0	92	40 - 160	P	10/29/2024	12:40	LB133198
	Barium	90.0	100	90	40 - 160	P	10/29/2024	12:40	LB133198
	Beryllium	5.49	6.0	92	40 - 160	P	10/29/2024	12:40	LB133198
	Cadmium	5.32	6.0	89	40 - 160	P	10/29/2024	12:40	LB133198
	Calcium	1880	2000	94	40 - 160	P	10/29/2024	12:40	LB133198
	Chromium	10.2	10.0	102	40 - 160	P	10/29/2024	12:40	LB133198
	Cobalt	28.2	30.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Copper	20.6	20.0	103	40 - 160	P	10/29/2024	12:40	LB133198
	Iron	102	100	102	40 - 160	P	10/29/2024	12:40	LB133198

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Lead	9.96	12.0	83	40 - 160	P	10/29/2024	12:40	LB133198
	Magnesium	1840	2000	92	40 - 160	P	10/29/2024	12:40	LB133198
	Manganese	18.9	20.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Nickel	37.3	40.0	93	40 - 160	P	10/29/2024	12:40	LB133198
	Potassium	1920	2000	96	40 - 160	P	10/29/2024	12:40	LB133198
	Selenium	19.2	20.0	96	40 - 160	P	10/29/2024	12:40	LB133198
	Silver	10.6	10.0	106	40 - 160	P	10/29/2024	12:40	LB133198
	Sodium	1780	2000	89	40 - 160	P	10/29/2024	12:40	LB133198
	Thallium	37.7	40.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Vanadium	36.0	40.0	90	40 - 160	P	10/29/2024	12:40	LB133198
	Zinc	38.5	40.0	96	40 - 160	P	10/29/2024	12:40	LB133198
CRI01	Aluminum	104	100	104	40 - 160	P	11/08/2024	14:20	LB133365
	Antimony	47.8	50.0	96	40 - 160	P	11/08/2024	14:20	LB133365
	Arsenic	20.1	20.0	100	40 - 160	P	11/08/2024	14:20	LB133365
	Barium	95.0	100	95	40 - 160	P	11/08/2024	14:20	LB133365
	Beryllium	5.62	6.0	94	40 - 160	P	11/08/2024	14:20	LB133365
	Cadmium	6.16	6.0	103	40 - 160	P	11/08/2024	14:20	LB133365
	Calcium	1950	2000	98	40 - 160	P	11/08/2024	14:20	LB133365
	Chromium	9.24	10.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Cobalt	27.8	30.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Copper	21.4	20.0	107	40 - 160	P	11/08/2024	14:20	LB133365
	Iron	92.9	100	93	40 - 160	P	11/08/2024	14:20	LB133365
	Lead	11.8	12.0	98	40 - 160	P	11/08/2024	14:20	LB133365
	Magnesium	1930	2000	97	40 - 160	P	11/08/2024	14:20	LB133365
	Manganese	19.6	20.0	98	40 - 160	P	11/08/2024	14:20	LB133365
	Nickel	36.8	40.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Potassium	1840	2000	92	40 - 160	P	11/08/2024	14:20	LB133365
	Selenium	19.8	20.0	99	40 - 160	P	11/08/2024	14:20	LB133365
	Silver	10.3	10.0	103	40 - 160	P	11/08/2024	14:20	LB133365
	Sodium	1600	2000	80	40 - 160	P	11/08/2024	14:20	LB133365
	Thallium	37.3	40.0	93	40 - 160	P	11/08/2024	14:20	LB133365
	Vanadium	38.5	40.0	96	40 - 160	P	11/08/2024	14:20	LB133365
	Zinc	41.9	40.0	105	40 - 160	P	11/08/2024	14:20	LB133365

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	251000	255000	98	216000	294000	10/28/2024	13:16	LB133175
	Antimony	-1.00			-50	50	10/28/2024	13:16	LB133175
	Arsenic	2.59			-20	20	10/28/2024	13:16	LB133175
	Barium	2.22	6.0	37	-94	106	10/28/2024	13:16	LB133175
	Beryllium	1.16			-6	6	10/28/2024	13:16	LB133175
	Cadmium	6.97	1.0	697	-5	7	10/28/2024	13:16	LB133175
	Calcium	232000	245000	95	208000	282000	10/28/2024	13:16	LB133175
	Chromium	56.5	52.0	109	42	62	10/28/2024	13:16	LB133175
	Cobalt	2.29			-30	30	10/28/2024	13:16	LB133175
	Copper	-8.35	2.0	418	-18	22	10/28/2024	13:16	LB133175
	Iron	104000	101000	103	85600	116500	10/28/2024	13:16	LB133175
	Lead	8.36			-12	12	10/28/2024	13:16	LB133175
	Magnesium	255000	255000	100	216000	294000	10/28/2024	13:16	LB133175
	Manganese	5.76	7.0	82	-13	27	10/28/2024	13:16	LB133175
	Nickel	3.07	2.0	154	-38	42	10/28/2024	13:16	LB133175
	Potassium	-7.85			0	0	10/28/2024	13:16	LB133175
	Selenium	-9.09			-20	20	10/28/2024	13:16	LB133175
	Silver	3.99			-10	10	10/28/2024	13:16	LB133175
	Sodium	-37.5			0	0	10/28/2024	13:16	LB133175
	Thallium	7.63			-40	40	10/28/2024	13:16	LB133175
	Vanadium	6.67			-40	40	10/28/2024	13:16	LB133175
	Zinc	-2.07			-40	40	10/28/2024	13:16	LB133175
ICSAB01	Aluminum	245000	247000	99	209000	285000	10/28/2024	13:21	LB133175
	Antimony	620	618	100	525	711	10/28/2024	13:21	LB133175
	Arsenic	107	104	103	88.4	120	10/28/2024	13:21	LB133175
	Barium	472	537	88	437	637	10/28/2024	13:21	LB133175
	Beryllium	474	495	96	420	570	10/28/2024	13:21	LB133175
	Cadmium	967	972	100	826	1120	10/28/2024	13:21	LB133175
	Calcium	226000	235000	96	199000	271000	10/28/2024	13:21	LB133175
	Chromium	556	542	103	460	624	10/28/2024	13:21	LB133175
	Cobalt	513	476	108	404	548	10/28/2024	13:21	LB133175
	Copper	491	511	96	434	588	10/28/2024	13:21	LB133175
	Iron	103000	99300	104	84400	114500	10/28/2024	13:21	LB133175
	Lead	55.7	49.0	114	37	61	10/28/2024	13:21	LB133175
	Magnesium	247000	248000	100	210000	286000	10/28/2024	13:21	LB133175
	Manganese	459	507	90	430	584	10/28/2024	13:21	LB133175
	Nickel	1010	954	106	810	1100	10/28/2024	13:21	LB133175
	Potassium	45.1			0	0	10/28/2024	13:21	LB133175
	Selenium	39.8	46.0	86	26	66	10/28/2024	13:21	LB133175
	Silver	212	201	106	170	232	10/28/2024	13:21	LB133175
	Sodium	30.6			0	0	10/28/2024	13:21	LB133175
	Thallium	97.4	108	90	68	148	10/28/2024	13:21	LB133175

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	463	491	94	417	565	10/28/2024	13:21	LB133175
	Zinc	1060	952	111	809	1095	10/28/2024	13:21	LB133175
ICSA01	Aluminum	240000	255000	94	216000	294000	10/29/2024	12:44	LB133198
	Antimony	-1.89			-50	50	10/29/2024	12:44	LB133198
	Arsenic	1.13			-20	20	10/29/2024	12:44	LB133198
	Barium	1.47	6.0	24	-94	106	10/29/2024	12:44	LB133198
	Beryllium	1.17			-6	6	10/29/2024	12:44	LB133198
	Cadmium	6.66	1.0	666	-5	7	10/29/2024	12:44	LB133198
	Calcium	224000	245000	91	208000	282000	10/29/2024	12:44	LB133198
	Chromium	57.6	52.0	111	42	62	10/29/2024	12:44	LB133198
	Cobalt	2.06			-30	30	10/29/2024	12:44	LB133198
	Copper	-5.53	2.0	276	-18	22	10/29/2024	12:44	LB133198
	Iron	102000	101000	101	85600	116500	10/29/2024	12:44	LB133198
	Lead	7.65			-12	12	10/29/2024	12:44	LB133198
	Magnesium	245000	255000	96	216000	294000	10/29/2024	12:44	LB133198
	Manganese	5.46	7.0	78	-13	27	10/29/2024	12:44	LB133198
	Nickel	2.53	2.0	126	-38	42	10/29/2024	12:44	LB133198
	Potassium	-70.7			0	0	10/29/2024	12:44	LB133198
	Selenium	-10.9			-20	20	10/29/2024	12:44	LB133198
	Silver	3.62			-10	10	10/29/2024	12:44	LB133198
	Sodium	-37.1			0	0	10/29/2024	12:44	LB133198
	Thallium	5.74			-40	40	10/29/2024	12:44	LB133198
	Vanadium	4.51			-40	40	10/29/2024	12:44	LB133198
	Zinc	-0.39			-40	40	10/29/2024	12:44	LB133198
ICSAB01	Aluminum	240000	247000	97	209000	285000	10/29/2024	12:48	LB133198
	Antimony	618	618	100	525	711	10/29/2024	12:48	LB133198
	Arsenic	108	104	104	88.4	120	10/29/2024	12:48	LB133198
	Barium	470	537	88	437	637	10/29/2024	12:48	LB133198
	Beryllium	469	495	95	420	570	10/29/2024	12:48	LB133198
	Cadmium	970	972	100	826	1120	10/29/2024	12:48	LB133198
	Calcium	224000	235000	95	199000	271000	10/29/2024	12:48	LB133198
	Chromium	573	542	106	460	624	10/29/2024	12:48	LB133198
	Cobalt	516	476	108	404	548	10/29/2024	12:48	LB133198
	Copper	496	511	97	434	588	10/29/2024	12:48	LB133198
	Iron	100000	99300	101	84400	114500	10/29/2024	12:48	LB133198
	Lead	54.7	49.0	112	37	61	10/29/2024	12:48	LB133198
	Magnesium	244000	248000	98	210000	286000	10/29/2024	12:48	LB133198
	Manganese	459	507	90	430	584	10/29/2024	12:48	LB133198
	Nickel	1020	954	107	810	1100	10/29/2024	12:48	LB133198
	Potassium	-63.3			0	0	10/29/2024	12:48	LB133198
	Selenium	38.3	46.0	83	26	66	10/29/2024	12:48	LB133198
	Silver	207	201	103	170	232	10/29/2024	12:48	LB133198

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	-27.2			0	0	10/29/2024	12:48	LB133198
	Thallium	98.7	108	91	68	148	10/29/2024	12:48	LB133198
	Vanadium	459	491	94	417	565	10/29/2024	12:48	LB133198
	Zinc	1090	952	114	809	1095	10/29/2024	12:48	LB133198
ICSA01	Aluminum	264000	255000	104	216000	294000	11/08/2024	14:24	LB133365
	Antimony	-1.65			-50	50	11/08/2024	14:24	LB133365
	Arsenic	5.52			-20	20	11/08/2024	14:24	LB133365
	Barium	1.84	6.0	31	-94	106	11/08/2024	14:24	LB133365
	Beryllium	1.29			-6	6	11/08/2024	14:24	LB133365
	Cadmium	6.11	1.0	611	-5	7	11/08/2024	14:24	LB133365
	Calcium	243000	245000	99	208000	282000	11/08/2024	14:24	LB133365
	Chromium	54.3	52.0	104	42	62	11/08/2024	14:24	LB133365
	Cobalt	2.11			-30	30	11/08/2024	14:24	LB133365
	Copper	14.3	2.0	715	-18	22	11/08/2024	14:24	LB133365
	Iron	98600	101000	98	85600	116500	11/08/2024	14:24	LB133365
	Lead	9.97			-12	12	11/08/2024	14:24	LB133365
	Magnesium	267000	255000	105	216000	294000	11/08/2024	14:24	LB133365
	Manganese	3.65	7.0	52	-13	27	11/08/2024	14:24	LB133365
	Nickel	2.63	2.0	132	-38	42	11/08/2024	14:24	LB133365
	Potassium	17.8			0	0	11/08/2024	14:24	LB133365
	Selenium	-14.4			-20	20	11/08/2024	14:24	LB133365
	Silver	-0.087			-10	10	11/08/2024	14:24	LB133365
	Sodium	15.0			0	0	11/08/2024	14:24	LB133365
	Thallium	-0.89			-40	40	11/08/2024	14:24	LB133365
	Vanadium	8.97			-40	40	11/08/2024	14:24	LB133365
	Zinc	7.04			-40	40	11/08/2024	14:24	LB133365
ICSAB01	Aluminum	260000	247000	105	209000	285000	11/08/2024	14:30	LB133365
	Antimony	622	618	101	525	711	11/08/2024	14:30	LB133365
	Arsenic	115	104	111	88.4	120	11/08/2024	14:30	LB133365
	Barium	496	537	92	437	637	11/08/2024	14:30	LB133365
	Beryllium	493	495	100	420	570	11/08/2024	14:30	LB133365
	Cadmium	979	972	101	826	1120	11/08/2024	14:30	LB133365
	Calcium	237000	235000	101	199000	271000	11/08/2024	14:30	LB133365
	Chromium	521	542	96	460	624	11/08/2024	14:30	LB133365
	Cobalt	498	476	105	404	548	11/08/2024	14:30	LB133365
	Copper	499	511	98	434	588	11/08/2024	14:30	LB133365
	Iron	95700	99300	96	84400	114500	11/08/2024	14:30	LB133365
	Lead	57.3	49.0	117	37	61	11/08/2024	14:30	LB133365
	Magnesium	260000	248000	105	210000	286000	11/08/2024	14:30	LB133365
	Manganese	480	507	95	430	584	11/08/2024	14:30	LB133365
	Nickel	981	954	103	810	1100	11/08/2024	14:30	LB133365
	Potassium	-6.03			0	0	11/08/2024	14:30	LB133365

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Selenium	31.2	46.0	68	26	66	11/08/2024	14:30	LB133365
	Silver	198	201	98	170	232	11/08/2024	14:30	LB133365
	Sodium	-36.6			0	0	11/08/2024	14:30	LB133365
	Thallium	90.2	108	84	68	148	11/08/2024	14:30	LB133365
	Vanadium	495	491	101	417	565	11/08/2024	14:30	LB133365
	Zinc	1090	952	114	809	1095	11/08/2024	14:30	LB133365

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Solid **sample id:** P4547-05 **client id:** BP-F-20MS

Percent Solids for Sample: 86.6 **Spiked ID:** P4547-05MS **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5910		5470		99.5	441		P
Antimony	mg/Kg	75 - 125	32.4		0.15	J	39.8	81		P
Arsenic	mg/Kg	75 - 125	32.3		2.11		39.8	76		P
Barium	mg/Kg	75 - 125	62.5		51.3		10.0	112		P
Beryllium	mg/Kg	75 - 125	7.77		0.64		10.0	71	N	P
Cadmium	mg/Kg	75 - 125	10.9		1.72		10.0	91		P
Calcium	mg/Kg	75 - 125	6010		5490		49.8	1062		P
Chromium	mg/Kg	75 - 125	28.9		13.2		19.9	79		P
Cobalt	mg/Kg	75 - 125	19.1		8.93		10.0	102		P
Copper	mg/Kg	75 - 125	67.6		55.3		14.9	83		P
Iron	mg/Kg	75 - 125	15200		14200		150	705		P
Lead	mg/Kg	75 - 125	52.6		8.50		49.8	89		P
Magnesium	mg/Kg	75 - 125	3580		3280		99.5	294		P
Manganese	mg/Kg	75 - 125	370		338		10.0	316		P
Nickel	mg/Kg	75 - 125	43.0		18.0		24.9	100		P
Potassium	mg/Kg	75 - 125	2040		1480		500	111		P
Selenium	mg/Kg	75 - 125	72.5		0.94	U	99.5	73	N	P
Silver	mg/Kg	75 - 125	3.71		0.53		3.7	86		P
Sodium	mg/Kg	75 - 125	687		518		150	112		P
Thallium	mg/Kg	75 - 125	91.8		1.88	U	99.5	92		P
Vanadium	mg/Kg	75 - 125	27.9		16.0		14.9	80		P
Zinc	mg/Kg	75 - 125	44.3		34.2		10.0	100		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Solid **sample id:** P4547-05 **client id:** BP-F-20MSD

Percent Solids for Sample: 86.6 **Spiked ID:** P4547-05MSD **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	6240		5470		110	703		P
Antimony	mg/Kg	75 - 125	34.3		0.15	J	42.2	81		P
Arsenic	mg/Kg	75 - 125	34.2		2.11		42.2	76		P
Barium	mg/Kg	75 - 125	65.5		51.3		10.5	135		P
Beryllium	mg/Kg	75 - 125	8.04		0.64		10.5	71	N	P
Cadmium	mg/Kg	75 - 125	11.5		1.72		10.5	93		P
Calcium	mg/Kg	75 - 125	6350		5490		52.7	1635		P
Chromium	mg/Kg	75 - 125	29.7		13.2		21.1	78		P
Cobalt	mg/Kg	75 - 125	20.1		8.93		10.5	106		P
Copper	mg/Kg	75 - 125	71.8		55.3		15.8	105		P
Iron	mg/Kg	75 - 125	15500		14200		160	846		P
Lead	mg/Kg	75 - 125	55.2		8.50		52.7	89		P
Magnesium	mg/Kg	75 - 125	3760		3280		110	429		P
Manganese	mg/Kg	75 - 125	385		338		10.5	453		P
Nickel	mg/Kg	75 - 125	45.2		18.0		26.4	103		P
Potassium	mg/Kg	75 - 125	2090		1480		530	115		P
Selenium	mg/Kg	75 - 125	76.7		0.94	U	110	70	N	P
Silver	mg/Kg	75 - 125	3.80		0.53		4.0	82		P
Sodium	mg/Kg	75 - 125	702		518		160	115		P
Thallium	mg/Kg	75 - 125	94.1		1.88	U	110	86		P
Vanadium	mg/Kg	75 - 125	29.1		16.0		15.8	83		P
Zinc	mg/Kg	75 - 125	45.9		34.2		10.5	111		P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Water **sample id:** P4548-01 **client id:** MW-1MS

Percent Solids for Sample: NA **Spiked ID:** P4548-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	943		50.0	U	1000	94		P
Antimony	ug/L	75 - 125	355		25.0	U	400	89		P
Arsenic	ug/L	75 - 125	391		10.0	U	400	98		P
Barium	ug/L	75 - 125	158		62.5		100	95		P
Beryllium	ug/L	75 - 125	80.7		3.00	U	100	81		P
Cadmium	ug/L	75 - 125	92.7		2.09	J	100	91		P
Calcium	ug/L	75 - 125	32600		32100		500	107		P
Chromium	ug/L	75 - 125	177		1.48	J	200	88		P
Cobalt	ug/L	75 - 125	93.1		15.0	U	100	93		P
Copper	ug/L	75 - 125	138		10.0	U	150	92		P
Iron	ug/L	75 - 125	1590		42.8	J	1500	103		P
Lead	ug/L	75 - 125	388		6.00	U	500	78		P
Magnesium	ug/L	75 - 125	6210		5330		1000	88		P
Manganese	ug/L	75 - 125	179		86.6		100	93		P
Nickel	ug/L	75 - 125	243		6.80	J	250	95		P
Potassium	ug/L	75 - 125	10200		5230		5000	99		P
Selenium	ug/L	75 - 125	804		10.0	U	1000	80		P
Silver	ug/L	75 - 125	22.5		5.00	U	37.5	60	N	P
Sodium	ug/L	75 - 125	54400		53100		1500	87		P
Thallium	ug/L	75 - 125	862		20.0	U	1000	86		P
Vanadium	ug/L	75 - 125	150		20.0	U	150	100		P
Zinc	ug/L	75 - 125	298		254		100	43	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Water **sample id:** P4548-01 **client id:** MW-1MSD

Percent Solids for Sample: NA **Spiked ID:** P4548-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	966		50.0	U	1000	97		P
Antimony	ug/L	75 - 125	367		25.0	U	400	92		P
Arsenic	ug/L	75 - 125	401		10.0	U	400	100		P
Barium	ug/L	75 - 125	161		62.5		100	99		P
Beryllium	ug/L	75 - 125	83.1		3.00	U	100	83		P
Cadmium	ug/L	75 - 125	95.0		2.09	J	100	93		P
Calcium	ug/L	75 - 125	33500		32100		500	284		P
Chromium	ug/L	75 - 125	181		1.48	J	200	90		P
Cobalt	ug/L	75 - 125	95.5		15.0	U	100	96		P
Copper	ug/L	75 - 125	141		10.0	U	150	94		P
Iron	ug/L	75 - 125	1580		42.8	J	1500	103		P
Lead	ug/L	75 - 125	398		6.00	U	500	80		P
Magnesium	ug/L	75 - 125	6400		5330		1000	107		P
Manganese	ug/L	75 - 125	184		86.6		100	98		P
Nickel	ug/L	75 - 125	249		6.80	J	250	97		P
Potassium	ug/L	75 - 125	10200		5230		5000	99		P
Selenium	ug/L	75 - 125	826		10.0	U	1000	83		P
Silver	ug/L	75 - 125	22.8		5.00	U	37.5	61	N	P
Sodium	ug/L	75 - 125	54400		53100		1500	87		P
Thallium	ug/L	75 - 125	831		20.0	U	1000	83		P
Vanadium	ug/L	75 - 125	153		20.0	U	150	102		P
Zinc	ug/L	75 - 125	303		254		100	49	N	P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Water **sample id:** P4549-02 **client id:** TT-067-IDWGW-20241024MS

Percent Solids for Sample: NA **Spiked ID:** P4549-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	4.10		0.20	U	4.0	102		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Water **sample id:** P4549-02 **client id:** TT-067-IDWGW-20241024MSD

Percent Solids for Sample: NA **Spiked ID:** P4549-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.71		0.20	U	4.0	93		CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Solid **sample id:** P4574-01 **client id:** GRAVEL-1MS

Percent Solids for Sample: 100 **Spiked ID:** P4574-01MS **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.28		0.013	U	0.27	102		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Solid **sample id:** P4574-01 **client id:** GRAVEL-1MSD

Percent Solids for Sample: 100 **Spiked ID:** P4574-01MSD **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.27		0.013	U	0.26	103		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Solid **Level:** LOW **Client ID:** BP-F-20A

Sample ID: P4547-05 **Spiked ID:** P4547-05A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Beryllium	mg/Kg	75 - 125	7.02		0.64		9.40	68		P
Selenium	mg/Kg	75 - 125	67.0		0.94	U	93.9	71		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Level:** LOW **Client ID:** MW-1A

Sample ID: P4548-01 **Spiked ID:** P4548-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	ug/L	75 - 125	22.7		5.00	U	37.5	60		P
Zinc	ug/L	75 - 125	301		254		100	47		P

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Solid **Sample ID:** P4547-05 **Client ID:** BP-F-20DUP

Percent Solids for Sample: 86.6 **Duplicate ID** P4547-05DUP **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5470		5660		3		P
Antimony	mg/Kg	20	0.15	J	2.66	U	200.0		P
Arsenic	mg/Kg	20	2.11		2.18		3		P
Barium	mg/Kg	20	51.3		53.7		5		P
Beryllium	mg/Kg	20	0.64		0.67		5		P
Cadmium	mg/Kg	20	1.72		1.70		1		P
Calcium	mg/Kg	20	5490		8870		47	*	P
Chromium	mg/Kg	20	13.2		14.2		7		P
Cobalt	mg/Kg	20	8.93		9.09		2		P
Copper	mg/Kg	20	55.3		51.1		8		P
Iron	mg/Kg	20	14200		15100		6		P
Lead	mg/Kg	20	8.50		8.76		3		P
Magnesium	mg/Kg	20	3280		3490		6		P
Manganese	mg/Kg	20	338		385		13		P
Nickel	mg/Kg	20	18.0		19.0		5		P
Potassium	mg/Kg	20	1480		1720		15		P
Selenium	mg/Kg	20	0.94	U	1.06	U			P
Silver	mg/Kg	20	0.53		0.56		6		P
Sodium	mg/Kg	20	518		554		7		P
Thallium	mg/Kg	20	1.88	U	2.13	U			P
Vanadium	mg/Kg	20	16.0		16.8		5		P
Zinc	mg/Kg	20	34.2		36.6		7		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Solid **Sample ID:** P4547-05MS **Client ID:** BP-F-20MSD

Percent Solids for Sample: 86.6 **Duplicate ID** P4547-05MSD **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5910		6240		5		P
Antimony	mg/Kg	20	32.4		34.3		6		P
Arsenic	mg/Kg	20	32.3		34.2		6		P
Barium	mg/Kg	20	62.5		65.5		5		P
Beryllium	mg/Kg	20	7.77		8.04		3		P
Cadmium	mg/Kg	20	10.9		11.5		6		P
Calcium	mg/Kg	20	6010		6350		6		P
Chromium	mg/Kg	20	28.9		29.7		3		P
Cobalt	mg/Kg	20	19.1		20.1		5		P
Copper	mg/Kg	20	67.6		71.8		6		P
Iron	mg/Kg	20	15200		15500		2		P
Lead	mg/Kg	20	52.6		55.2		5		P
Magnesium	mg/Kg	20	3580		3760		5		P
Manganese	mg/Kg	20	370		385		4		P
Nickel	mg/Kg	20	43.0		45.2		5		P
Potassium	mg/Kg	20	2040		2090		2		P
Selenium	mg/Kg	20	72.5		76.7		6		P
Silver	mg/Kg	20	3.71		3.80		2		P
Sodium	mg/Kg	20	687		702		2		P
Thallium	mg/Kg	20	91.8		94.1		2		P
Vanadium	mg/Kg	20	27.9		29.1		4		P
Zinc	mg/Kg	20	44.3		45.9		4		P

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Sample ID:** P4548-01 **Client ID:** MW-1DUP

Percent Solids for Sample: NA **Duplicate ID** P4548-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	50.0	U	50.0	U			P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	62.5		65.6		5		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	2.09	J	2.18	J	4		P
Calcium	ug/L	20	32100		33500		4		P
Chromium	ug/L	20	1.48	J	1.64	J	10		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	42.8	J	42.0	J	2		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	5330		5570		4		P
Manganese	ug/L	20	86.6		91.1		5		P
Nickel	ug/L	20	6.80	J	7.17	J	5		P
Potassium	ug/L	20	5230		5290		1		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	53100		54500		3		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	254		262		3		P

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Sample ID:** P4548-01MS **Client ID:** MW-1MSD

Percent Solids for Sample: NA **Duplicate ID** P4548-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	943		966		2		P
Antimony	ug/L	20	355		367		3		P
Arsenic	ug/L	20	391		401		3		P
Barium	ug/L	20	158		161		2		P
Beryllium	ug/L	20	80.7		83.1		3		P
Cadmium	ug/L	20	92.7		95.0		2		P
Calcium	ug/L	20	32600		33500		3		P
Chromium	ug/L	20	177		181		2		P
Cobalt	ug/L	20	93.1		95.5		3		P
Copper	ug/L	20	138		141		2		P
Iron	ug/L	20	1590		1580		1		P
Lead	ug/L	20	388		398		3		P
Magnesium	ug/L	20	6210		6400		3		P
Manganese	ug/L	20	179		184		3		P
Nickel	ug/L	20	243		249		2		P
Potassium	ug/L	20	10200		10200		0		P
Selenium	ug/L	20	804		826		3		P
Silver	ug/L	20	22.5		22.8		1		P
Sodium	ug/L	20	54400		54400		0		P
Thallium	ug/L	20	862		831		4		P
Vanadium	ug/L	20	150		153		2		P
Zinc	ug/L	20	298		303		2		P

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Sample ID:** P4549-02 **Client ID:** TT-067-IDWGW-20241024DUP

Percent Solids for Sample: NA **Duplicate ID** P4549-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Sample ID:** P4549-02MS **Client ID:** TT-067-IDWGW-20241024MSD

Percent Solids for Sample: NA **Duplicate ID** P4549-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	4.10		3.71		10		CV

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Solid **Sample ID:** P4574-01 **Client ID:** GRAVEL-1DUP

Percent Solids for Sample: 100 **Duplicate ID** P4574-01DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.013	U	0.013	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Solid **Sample ID:** P4574-01MS **Client ID:** GRAVEL-1MSD

Percent Solids for Sample: 100 **Duplicate ID** P4574-01MSD **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.28		0.27		3		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164415BS							
Aluminum	mg/Kg	84.4	83.1		98	80 - 120	P
Antimony	mg/Kg	33.8	34.6		102	80 - 120	P
Arsenic	mg/Kg	33.8	32.3		96	80 - 120	P
Barium	mg/Kg	8.4	8.02		96	80 - 120	P
Beryllium	mg/Kg	8.4	8.28		99	80 - 120	P
Cadmium	mg/Kg	8.4	7.84		93	80 - 120	P
Calcium	mg/Kg	42.2	42.2	J	100	80 - 120	P
Chromium	mg/Kg	16.9	16.8		99	80 - 120	P
Cobalt	mg/Kg	8.4	8.42		100	80 - 120	P
Copper	mg/Kg	12.7	13.6		107	80 - 120	P
Iron	mg/Kg	130	125		96	80 - 120	P
Lead	mg/Kg	42.2	39.8		94	80 - 120	P
Magnesium	mg/Kg	84.4	78.6	J	93	80 - 120	P
Manganese	mg/Kg	8.4	7.88		94	80 - 120	P
Nickel	mg/Kg	21.1	21.2		100	80 - 120	P
Potassium	mg/Kg	420	437		104	80 - 120	P
Selenium	mg/Kg	84.4	83.7		99	80 - 120	P
Silver	mg/Kg	3.2	3.32		104	80 - 120	P
Sodium	mg/Kg	130	121		93	80 - 120	P
Thallium	mg/Kg	84.4	84.8		100	80 - 120	P
Vanadium	mg/Kg	12.7	12.1		95	80 - 120	P
Zinc	mg/Kg	8.4	9.02		107	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164438BS							
Aluminum	ug/L	1000	1010		101	80 - 120	P
Antimony	ug/L	400	375		94	80 - 120	P
Arsenic	ug/L	400	397		99	80 - 120	P
Barium	ug/L	100	99.2		99	80 - 120	P
Beryllium	ug/L	100	92.9		93	80 - 120	P
Cadmium	ug/L	100	84.8		85	80 - 120	P
Calcium	ug/L	500	543	J	109	80 - 120	P
Chromium	ug/L	200	188		94	80 - 120	P
Cobalt	ug/L	100	89.4		89	80 - 120	P
Copper	ug/L	150	155		103	80 - 120	P
Iron	ug/L	1500	1580		105	80 - 120	P
Lead	ug/L	500	426		85	80 - 120	P
Magnesium	ug/L	1000	1000		100	80 - 120	P
Manganese	ug/L	100	101		101	80 - 120	P
Nickel	ug/L	250	225		90	80 - 120	P
Potassium	ug/L	5000	5090		102	80 - 120	P
Selenium	ug/L	1000	979		98	80 - 120	P
Silver	ug/L	37.5	33.9		90	80 - 120	P
Sodium	ug/L	1500	1380		92	80 - 120	P
Thallium	ug/L	1000	903		90	80 - 120	P
Vanadium	ug/L	150	157		105	80 - 120	P
Zinc	ug/L	100	89.1		89	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164472BS							
Mercury	ug/L	4.0	3.89		97	82 - 119	CV

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164487BS							
Mercury	mg/Kg	0.27	0.24		87	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

BP-F-20L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133175 **Lab Sample ID :** P4547-05L **SDG No.:** P4578

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	5470		6760		24		P
Antimony	0.15	J	11.7	U	100.0		P
Arsenic	2.11		1.88	J	11		P
Barium	51.3		63.7		24		P
Beryllium	0.64		0.88	J	38		P
Cadmium	1.72		1.13	J	34		P
Calcium	5490		7090		29		P
Chromium	13.2		17.5		32		P
Cobalt	8.93		9.34		5		P
Copper	55.3		73.6		33		P
Iron	14200		18100		28		P
Lead	8.50		9.09		7		P
Magnesium	3280		4210		28		P
Manganese	338		445		32		P
Nickel	18.0		19.3		7		P
Potassium	1480		1760		18		P
Selenium	0.94	U	4.69	U			P
Silver	0.53		0.71	J	36		P
Sodium	518		594		15		P
Thallium	1.88	U	9.39	U			P
Vanadium	16.0		20.7		29		P
Zinc	34.2		42.0		23		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

MW-1L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133198 **Lab Sample ID :** P4548-01L **SDG No.:** P4578

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	50.0	U	250	U			P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	62.5		49.2	J	21		P
Beryllium	3.00	U	15.0	U			P
Cadmium	2.09	J	2.11	J	1		P
Calcium	32100		34000		6		P
Chromium	1.48	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	42.8	J	250	U	100.0		P
Lead	6.00	U	30.0	U			P
Magnesium	5330		5680		6		P
Manganese	86.6		92.5		7		P
Nickel	6.80	J	7.42	J	9		P
Potassium	5230		5590		7		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	53100		50900		4		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	254		204		20		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

TT-067-IDWGW-20241024L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133167 **Lab Sample ID :** P4549-02L **SDG No.:** P4578

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	U	1.00	U			CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

GRAVEL-1L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133185 **Lab Sample ID :** P4574-01L **SDG No.:** P4578

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.013	U	0.064	U			CV

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133167

Start date: 10/28/2024 **End date:** 10/28/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1044	HG
S0.2	S0.2	1	1051	HG
S2.5	S2.5	1	1053	HG
S5	S5	1	1056	HG
S7.5	S7.5	1	1101	HG
S10	S10	1	1105	HG
ICV55	ICV55	1	1109	HG
ICB55	ICB55	1	1114	HG
CCV79	CCV79	1	1116	HG
CCB79	CCB79	1	1121	HG
CRA	CRA	1	1123	HG
PB164472BL	PB164472BL	1	1132	HG
PB164472BS	PB164472BS	1	1135	HG
P4549-02DUP	TT-067-IDWGW-20241024DUP	1	1139	HG
P4549-02MS	TT-067-IDWGW-20241024MS	1	1142	HG
P4549-02MSD	TT-067-IDWGW-20241024MSD	1	1144	HG
CCV80	CCV80	1	1148	HG
CCB80	CCB80	1	1153	HG
P4578-01	WB-305-SW	1	1200	HG
P4578-02	WB-305-SW-1	1	1202	HG
P4549-02L	TT-067-IDWGW-20241024L	5	1205	HG
CCV81	CCV81	1	1209	HG
CCB81	CCB81	1	1214	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133175

Start date: 10/28/2024 **End date:** 10/28/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1158	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1203	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1207	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1211	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1216	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1220	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1257	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1304	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1308	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1312	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1316	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1321	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1335	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1339	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1425	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1430	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1515	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1520	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1606	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1610	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1657	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1701	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1750	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1754	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1843	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1847	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1933	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1937	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4547-05DUP	BP-F-20DUP	1	1942	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4547-05L	BP-F-20L	5	1946	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4547-05MS	BP-F-20MS	1	1950	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4547-05MSD	BP-F-20MSD	1	1954	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4547-05A	BP-F-20A	1	1958	Be,Se
CCV09	CCV09	1	2022	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2026	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-03	WB-305-TOP	1	2035	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-04	WB-305-TOP-1	1	2039	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-05	WB-305-BOT	1	2043	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-07	WB-305-BOT-1	1	2047	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164415BL	PB164415BL	1	2108	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164415BS	PB164415BS	1	2112	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133175

Start date: 10/28/2024 **End date:** 10/28/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV10	CCV10	1	2121	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2125	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	2138	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	2143	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133185

Start date: 10/29/2024 **End date:** 10/29/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1010	HG
S0.2	S0.2	1	1012	HG
S2.5	S2.5	1	1015	HG
S5	S5	1	1017	HG
S7.5	S7.5	1	1019	HG
S10	S10	1	1029	HG
ICV57	ICV57	1	1032	HG
ICB57	ICB57	1	1034	HG
CCV86	CCV86	1	1036	HG
CCB86	CCB86	1	1039	HG
CRA	CRA	1	1041	HG
PB164487BL	PB164487BL	1	1048	HG
PB164487BS	PB164487BS	1	1050	HG
P4574-01DUP	GRAVEL-1DUP	1	1055	HG
P4574-01MS	GRAVEL-1MS	1	1057	HG
P4574-01MSD	GRAVEL-1MSD	1	1059	HG
CCV87	CCV87	1	1104	HG
CCB87	CCB87	1	1106	HG
P4578-05	WB-305-BOT	1	1125	HG
P4578-07	WB-305-BOT-1	1	1127	HG
CCV88	CCV88	1	1132	HG
CCB88	CCB88	1	1134	HG
P4574-01L	GRAVEL-1L	5	1148	HG
P4578-03	WB-305-TOP	10	1152	HG
P4578-04	WB-305-TOP-1	10	1155	HG
CCV89	CCV89	1	1157	HG
CCB89	CCB89	1	1159	HG

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133198

Start date: 10/29/2024 **End date:** 10/29/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1133	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1138	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1142	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1146	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1150	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1154	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1159	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1231	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1235	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1248	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1301	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1306	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1404	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1502	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1506	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01DUP	MW-1DUP	1	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1559	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1603	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01L	MW-1L	5	1611	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01MS	MW-1MS	1	1615	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01MSD	MW-1MSD	1	1619	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01A	MW-1A	1	1623	Ag,Zn
CCV05	CCV05	1	1653	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1657	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-01	WB-305-SW	1	1715	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-02	WB-305-SW-1	1	1720	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-01	WB-305-SW	5	1749	Na
CCV06	CCV06	1	1753	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1758	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-02	WB-305-SW-1	5	1802	Na
PB164438BL	PB164438BL	1	1807	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164438BS	PB164438BS	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1820	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1824	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133365

Start date: 11/08/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1338	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1343	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1355	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1359	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1411	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1416	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1420	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1424	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1430	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1444	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1450	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-04	WB-305-TOP-1	5	1455	Cr
CCV02	CCV02	1	1529	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1533	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1623	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1628	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1716	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1722	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1804	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1808	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1855	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1859	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1947	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1951	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2048	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2150	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2155	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2324	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2335	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Alliance TECHNICAL GROUP
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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	**WB-305-SW**	**Water**			**10/25/24**			**10/25/24**
			Mercury	7470A		10/25/24	10/28/24	
			Metals ICP-TAL	6010D		10/26/24	10/29/24	
P4578-02	**WB-305-SW-1**	**Water**			**10/25/24**			**10/25/24**
			Mercury	7470A		10/25/24	10/28/24	
			Metals ICP-TAL	6010D		10/26/24	10/29/24	
P4578-03	**WB-305-TOP**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4578-04	**WB-305-TOP-1**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
			Metals ICP-TAL	6010D		10/25/24	11/08/24	
P4578-05	**WB-305-BOT**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP ICP Metals	6010D		10/27/24	10/28/24	
			TCLP Mercury	7470A		10/28/24	10/29/24	
P4578-07	**WB-305-BOT-1**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP ICP Metals	6010D		10/27/24	10/28/24	
			TCLP Mercury	7470A		10/28/24	10/29/24	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4578 **SAS No.:** P4578

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164415**						
P4547-05DUP	BP-F-20DUP	DUP	SOLID	10/25/2024	2.17	100.0	86.60
P4547-05MS	BP-F-20MS	MS	SOLID	10/25/2024	2.32	100.0	86.60
P4547-05MSD	BP-F-20MSD	MSD	SOLID	10/25/2024	2.19	100.0	86.60
P4578-03	WB-305-TOP	SAM	SOLID	10/25/2024	2.17	100.0	53.80
P4578-04	WB-305-TOP-1	SAM	SOLID	10/25/2024	2.10	100.0	58.70
P4578-05	WB-305-BOT	SAM	SOLID	10/25/2024	2.05	100.0	82.10
P4578-07	WB-305-BOT-1	SAM	SOLID	10/25/2024	2.29	100.0	94.40
PB164415BL	PB164415BL	MB	SOLID	10/25/2024	2.37	100.0	100.00
PB164415BS	PB164415BS	LCS	SOLID	10/25/2024	2.37	100.0	100.00

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4578 **SAS No.:** P4578

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164438**						
P4548-01DUP	MW-1DUP	DUP	WATER	10/26/2024	50.0	25.0	
P4548-01MS	MW-1MS	MS	WATER	10/26/2024	50.0	25.0	
P4548-01MSD	MW-1MSD	MSD	WATER	10/26/2024	50.0	25.0	
P4578-01	WB-305-SW	SAM	WATER	10/26/2024	50.0	25.0	
P4578-02	WB-305-SW-1	SAM	WATER	10/26/2024	50.0	25.0	
PB164438BL	PB164438BL	MB	WATER	10/26/2024	50.0	25.0	
PB164438BS	PB164438BS	LCS	WATER	10/26/2024	50.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4578 **SAS No.:** P4578

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164472**						
P4549-02DUP	TT-067-IDWGW-20241024DUP	DUP	WATER	10/25/2024	30.0	30.0	
P4549-02MS	TT-067-IDWGW-20241024MS	MS	WATER	10/25/2024	30.0	30.0	
P4549-02MSD	TT-067-IDWGW-20241024MSD	MSD	WATER	10/25/2024	30.0	30.0	
P4578-01	WB-305-SW	SAM	WATER	10/25/2024	30.0	30.0	
P4578-02	WB-305-SW-1	SAM	WATER	10/25/2024	30.0	30.0	
PB164472BL	PB164472BL	MB	WATER	10/25/2024	30.0	30.0	
PB164472BS	PB164472BS	LCS	WATER	10/25/2024	30.0	30.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4578 **SAS No.:** P4578

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164487**						
P4574-01DUP	GRAVEL-1DUP	DUP	SOLID	10/28/2024	0.54	35.0	100.00
P4574-01MS	GRAVEL-1MS	MS	SOLID	10/28/2024	0.52	35.0	100.00
P4574-01MSD	GRAVEL-1MSD	MSD	SOLID	10/28/2024	0.54	35.0	100.00
P4578-03	WB-305-TOP	SAM	SOLID	10/28/2024	0.56	35.0	53.80
P4578-04	WB-305-TOP-1	SAM	SOLID	10/28/2024	0.56	35.0	58.70
P4578-05	WB-305-BOT	SAM	SOLID	10/28/2024	0.59	35.0	82.10
P4578-07	WB-305-BOT-1	SAM	SOLID	10/28/2024	0.52	35.0	94.40
PB164487BL	PB164487BL	MB	SOLID	10/28/2024	0.56	35.0	100.00
PB164487BS	PB164487BS	LCS	SOLID	10/28/2024	0.52	35.0	100.00

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133167

Review By	jaswal	Review On	10/29/2024 12:31:07 AM
Supervise By	mohan	Supervise On	10/29/2024 12:32:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP82910,MP82912,MP82913,MP82914,MP82915,MP82916
ICV Standard	MP82917
CCV Standard	MP82919
ICSA Standard	
CRI Standard	MP82921
LCS Standard	
Chk Standard	MP82918,MP82920,MP82922,MP82941

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/28/24 10:44		Mohan	OK
2	S0.2	S0.2	CAL2	10/28/24 10:51		Mohan	OK
3	S2.5	S2.5	CAL3	10/28/24 10:53		Mohan	OK
4	S5	S5	CAL4	10/28/24 10:56		Mohan	OK
5	S7.5	S7.5	CAL5	10/28/24 11:01		Mohan	OK
6	S10	S10	CAL6	10/28/24 11:05		Mohan	OK
7	ICV55	ICV55	ICV	10/28/24 11:09		Mohan	OK
8	ICB55	ICB55	ICB	10/28/24 11:14		Mohan	OK
9	CCV79	CCV79	CCV	10/28/24 11:16		Mohan	OK
10	CCB79	CCB79	CCB	10/28/24 11:21		Mohan	OK
11	CRA	CRA	CRDL	10/28/24 11:23		Mohan	OK
12	HighStd	HighStd	HIGH STD	10/28/24 11:25		Mohan	OK
13	ChkStd	ChkStd	SAM	10/28/24 11:28		Mohan	OK
14	PB164472BL	PB164472BL	MB	10/28/24 11:32		Mohan	OK
15	PB164472BS	PB164472BS	LCS	10/28/24 11:35		Mohan	OK
16	P4549-02	TT-067-IDWGW-2024	SAM	10/28/24 11:37		Mohan	OK
17	P4549-02DUP	TT-067-IDWGW-2024	DUP	10/28/24 11:39		Mohan	OK
18	P4549-02MS	TT-067-IDWGW-2024	MS	10/28/24 11:42		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133167

Review By	jaswal	Review On	10/29/2024 12:31:07 AM
Supervise By	mohan	Supervise On	10/29/2024 12:32:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP82910,MP82912,MP82913,MP82914,MP82915,MP82916
ICV Standard	MP82917
CCV Standard	MP82919
ICSA Standard	
CRI Standard	MP82921
LCS Standard	
Chk Standard	MP82918,MP82920,MP82922,MP82941

19	P4549-02MSD	TT-067-IDWGW-2024	MSD	10/28/24 11:44		Mohan	OK
20	P4549-03	TT-068-IDWGW-2024	SAM	10/28/24 11:46		Mohan	OK
21	CCV80	CCV80	CCV	10/28/24 11:48		Mohan	OK
22	CCB80	CCB80	CCB	10/28/24 11:53		Mohan	OK
23	P4549-04	TT-069-IDWGW-2024	SAM	10/28/24 11:56		Mohan	OK
24	P4564-01	100324	SAM	10/28/24 11:58		Mohan	OK
25	P4578-01	WB-305-SW	SAM	10/28/24 12:00		Mohan	OK
26	P4578-02	WB-305-SW-1	SAM	10/28/24 12:02		Mohan	OK
27	P4549-02L	TT-067-IDWGW-2024	SD	10/28/24 12:05		Mohan	OK
28	P4549-02A	TT-067-IDWGW-2024	PS	10/28/24 12:07		Mohan	OK
29	CCV81	CCV81	CCV	10/28/24 12:09		Mohan	OK
30	CCB81	CCB81	CCB	10/28/24 12:14		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133175

Review By	Jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/28/24 11:58		Kareem	OK
2	S1	S1	CAL2	10/28/24 12:03		Kareem	OK
3	S2	S2	CAL3	10/28/24 12:07		Kareem	OK
4	S3	S3	CAL4	10/28/24 12:11		Kareem	OK
5	S4	S4	CAL5	10/28/24 12:16		Kareem	OK
6	S5	S5	CAL6	10/28/24 12:20		Kareem	OK
7	ICV01	ICV01	ICV	10/28/24 12:57	Fail for Ba,Mn,K,Ag,Zn (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	10/28/24 13:04		Kareem	OK
9	ICB01	ICB01	ICB	10/28/24 13:08		Kareem	OK
10	CRI01	CRI01	CRDL	10/28/24 13:12		Kareem	OK
11	ICSA01	ICSA01	ICSA	10/28/24 13:16		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	10/28/24 13:21		Kareem	OK
13	ICSADL	ICSADL	ICSA	10/28/24 13:27		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	10/28/24 13:31		Kareem	OK
15	CCV01	CCV01	CCV	10/28/24 13:35		Kareem	OK
16	CCB01	CCB01	CCB	10/28/24 13:39		Kareem	OK
17	P4549-02	TT-067-IDWGW-2024	SAM	10/28/24 13:44		Kareem	OK
18	P4549-03	TT-068-IDWGW-2024	SAM	10/28/24 13:48		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133175

Review By	Jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

19	P4549-04	TT-069-IDWGW-2024	SAM	10/28/24 13:52		Kareem	OK
20	P4549-04DUP	TT-069-IDWGW-2024	DUP	10/28/24 13:57		Kareem	OK
21	P4549-04L	TT-069-IDWGW-2024	SD	10/28/24 14:01		Kareem	OK
22	P4549-04MS	TT-069-IDWGW-2024	MS	10/28/24 14:05	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
23	P4549-04MSD	TT-069-IDWGW-2024	MSD	10/28/24 14:09	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
24	P4549-04A	TT-069-IDWGW-2024	PS	10/28/24 14:13	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
25	PB164404BL	PB164404BL	MB	10/28/24 14:17		Kareem	OK
26	PB164404BS	PB164404BS	LCS	10/28/24 14:21	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
27	CCV02	CCV02	CCV	10/28/24 14:25		Kareem	OK
28	CCB02	CCB02	CCB	10/28/24 14:30		Kareem	OK
29	P4554-01	001-WILLETS-PT-BL\	SAM	10/28/24 14:34		Kareem	OK
30	P4554-02	002-35TH-AVE(SEP)	SAM	10/28/24 14:38		Kareem	OK
31	P4554-02DUP	002-35TH-AVE(SEP)[	DUP	10/28/24 14:42		Kareem	OK
32	P4554-02L	002-35TH-AVE(SEP)L	SD	10/28/24 14:46		Kareem	OK
33	P4554-02MS	002-35TH-AVE(SEP)M	MS	10/28/24 14:51	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK

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Instrument ID: P4

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Review By	Jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

34	P4554-02MSD	002-35TH-AVE(SEP)M	MSD	10/28/24 14:55	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
35	P4554-02A	002-35TH-AVE(SEP)A	PS	10/28/24 14:59	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
36	PB164410BL	PB164410BL	MB	10/28/24 15:03		Kareem	OK
37	PB164410BS	PB164410BS	LCS	10/28/24 15:07	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
38	P3440-01	923-K1-WS-080124	SAM	10/28/24 15:11		Kareem	OK
39	CCV03	CCV03	CCV	10/28/24 15:15		Kareem	OK
40	CCB03	CCB03	CCB	10/28/24 15:20		Kareem	OK
41	P3440-01DUP	923-K1-WS-080124DU	DUP	10/28/24 15:24		Kareem	OK
42	P3440-01L	923-K1-WS-080124L	SD	10/28/24 15:28		Kareem	OK
43	P3440-02	923-K1-WS-080124M	MS	10/28/24 15:33	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
44	P3440-03	923-K1-WS-080124M	MSD	10/28/24 15:37	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
45	P3440-01A	923-K1-WS-080124A	PS	10/28/24 15:41	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
46	P3440-04	922-K1-WS-080124	SAM	10/28/24 15:45		Kareem	OK
47	PB164476BL	PB164476BL	MB	10/28/24 15:49		Kareem	OK

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Review By	Jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

48	PB164476BS	PB164476BS	LCS	10/28/24 15:54	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
49	P4574-01	GRAVEL-1	SAM	10/28/24 15:58		Kareem	OK
50	P4574-04	GRAVEL-2	SAM	10/28/24 16:02		Kareem	OK
51	CCV04	CCV04	CCV	10/28/24 16:06		Kareem	OK
52	CCB04	CCB04	CCB	10/28/24 16:10		Kareem	OK
53	P4574-07	CONCRETE-1	SAM	10/28/24 16:15		Kareem	OK
54	P4574-09	CONCRETE-2	SAM	10/28/24 16:19	Cr high	Kareem	Dilution
55	P4574-11	CONCRETE-3	SAM	10/28/24 16:23	Cr high	Kareem	Dilution
56	P4575-01	PL-02-102424	SAM	10/28/24 16:28		Kareem	OK
57	P4577-01	TR-05-102524	SAM	10/28/24 16:32		Kareem	OK
58	P4577-01DUP	TR-05-102524DUP	DUP	10/28/24 16:36		Kareem	OK
59	P4577-01L	TR-05-102524L	SD	10/28/24 16:41		Kareem	OK
60	P4577-01MS	TR-05-102524MS	MS	10/28/24 16:45	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
61	P4577-01MSD	TR-05-102524MSD	MSD	10/28/24 16:49	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
62	P4577-01A	TR-05-102524A	PS	10/28/24 16:53	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
63	CCV05	CCV05	CCV	10/28/24 16:57		Kareem	OK
64	CCB05	CCB05	CCB	10/28/24 17:01		Kareem	OK

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Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

65	PB164439BL	PB164439BL	MB	10/28/24 17:06		Kareem	OK
66	PB164439BS	PB164439BS	LCS	10/28/24 17:10	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
67	P4452-03	ETGI-285	SAM	10/28/24 17:14		Kareem	OK
68	P4545-02	VNJ-215	SAM	10/28/24 17:19		Kareem	OK
69	P4547-04	BP-F-21	SAM	10/28/24 17:23		Kareem	OK
70	P4547-08	BP-F-20	SAM	10/28/24 17:28		Kareem	OK
71	P4561-04	BP-F-19	SAM	10/28/24 17:32		Kareem	OK
72	P4561-08	BP-F-18	SAM	10/28/24 17:36		Kareem	OK
73	P4567-04	WC-1	SAM	10/28/24 17:41		Kareem	OK
74	P4567-08	WC-2	SAM	10/28/24 17:45		Kareem	OK
75	CCV06	CCV06	CCV	10/28/24 17:50		Kareem	OK
76	CCB06	CCB06	CCB	10/28/24 17:54		Kareem	OK
77	P4567-12	WC-3	SAM	10/28/24 17:58		Kareem	OK
78	P4574-03	GRAVEL-1	SAM	10/28/24 18:03		Kareem	OK
79	P4574-06	GRAVEL-2	SAM	10/28/24 18:07		Kareem	OK
80	P4574-08	CONCRETE-1	SAM	10/28/24 18:12		Kareem	OK
81	P4574-10	CONCRETE-2	SAM	10/28/24 18:16		Kareem	OK
82	P4574-12	CONCRETE-3	SAM	10/28/24 18:21		Kareem	OK
83	P4578-06	WB-305-BOT	SAM	10/28/24 18:25		Kareem	OK

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ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

84	P4578-08	WB-305-BOT-1	SAM	10/28/24 18:29		Kareem	OK
85	P4578-08DUP	WB-305-BOT-1DUP	DUP	10/28/24 18:34		Kareem	OK
86	P4578-08L	WB-305-BOT-1L	SD	10/28/24 18:38		Kareem	OK
87	CCV07	CCV07	CCV	10/28/24 18:43		Kareem	OK
88	CCB07	CCB07	CCB	10/28/24 18:47		Kareem	OK
89	P4578-08MS	WB-305-BOT-1MS	MS	10/28/24 18:51	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
90	P4578-08MSD	WB-305-BOT-1MSD	MSD	10/28/24 18:55	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
91	P4578-08A	WB-305-BOT-1A	PS	10/28/24 18:59	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
92	PB164393TB	PB164393TB	MB	10/28/24 19:04		Kareem	OK
93	PB164453BL	PB164453BL	MB	10/28/24 19:08		Kareem	OK
94	PB164453BS	PB164453BS	LCS	10/28/24 19:12	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
95	P4547-01	BP-F-21	SAM	10/28/24 19:16		Kareem	OK
96	P4547-05	BP-F-20	SAM	10/28/24 19:21		Kareem	OK
97	P4531-01	OR-03-102424	SAM	10/28/24 19:25		Kareem	OK
98	P4545-01	VNJ-215	SAM	10/28/24 19:29		Kareem	OK
99	CCV08	CCV08	CCV	10/28/24 19:33		Kareem	OK

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Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

100	CCB08	CCB08	CCB	10/28/24 19:37		Kareem	OK
101	P4547-05DUP	BP-F-20DUP	DUP	10/28/24 19:42		Kareem	OK
102	P4547-05L	BP-F-20L	SD	10/28/24 19:46		Kareem	OK
103	P4547-05MS	BP-F-20MS	MS	10/28/24 19:50	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
104	P4547-05MSD	BP-F-20MSD	MSD	10/28/24 19:54	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
105	P4547-05A	BP-F-20A	PS	10/28/24 19:58	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
106	P4561-01	BP-F-19	SAM	10/28/24 20:02		Kareem	OK
107	P4561-05	BP-F-18	SAM	10/28/24 20:06		Kareem	OK
108	P4566-01	HD-01-102524	SAM	10/28/24 20:10		Kareem	OK
109	P4567-01	WC-1	SAM	10/28/24 20:14		Kareem	OK
110	P4567-05	WC-2	SAM	10/28/24 20:18		Kareem	OK
111	CCV09	CCV09	CCV	10/28/24 20:22		Kareem	OK
112	CCB09	CCB09	CCB	10/28/24 20:26		Kareem	OK
113	P4567-09	WC-3	SAM	10/28/24 20:31		Kareem	OK
114	P4578-03	WB-305-TOP	SAM	10/28/24 20:35		Kareem	OK
115	P4578-04	WB-305-TOP-1	SAM	10/28/24 20:39	Cr high	Kareem	Dilution
116	P4578-05	WB-305-BOT	SAM	10/28/24 20:43		Kareem	OK

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ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

117	P4578-07	WB-305-BOT-1	SAM	10/28/24 20:47		Kareem	OK
118	P4574-09DL	CONCRETE-2DL	SAM	10/28/24 20:59	5x for Cr	Kareem	Confirms
119	P4574-11DL	CONCRETE-3DL	SAM	10/28/24 21:04	5x for Cr	Kareem	Confirms
120	PB164415BL	PB164415BL	MB	10/28/24 21:08		Kareem	OK
121	PB164415BS	PB164415BS	LCS	10/28/24 21:12	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
122	CCV10	CCV10	CCV	10/28/24 21:21		Kareem	OK
123	CCB10	CCB10	CCB	10/28/24 21:25		Kareem	OK
124	LR1	LR1	HIGH STD	10/28/24 21:29		Kareem	OK
125	LR2	LR2	HIGH STD	10/28/24 21:34		Kareem	OK
126	CCV11	CCV11	CCV	10/28/24 21:38		Kareem	OK
127	CCB11	CCB11	CCB	10/28/24 21:43		Kareem	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133185

Review By	jaswal	Review On	10/30/2024 12:41:40 AM
Supervise By	mohan	Supervise On	10/30/2024 12:42:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP82944,MP82945,MP82946,MP82947,MP82948,MP82949
ICV Standard	MP82950
CCV Standard	MP82952
ICSA Standard	
CRI Standard	MP82954
LCS Standard	
Chk Standard	MP82951,MP82953,MP82955,MP82958

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/29/24 10:10		Mohan	OK
2	S0.2	S0.2	CAL2	10/29/24 10:12		Mohan	OK
3	S2.5	S2.5	CAL3	10/29/24 10:15		Mohan	OK
4	S5	S5	CAL4	10/29/24 10:17		Mohan	OK
5	S7.5	S7.5	CAL5	10/29/24 10:19		Mohan	OK
6	S10	S10	CAL6	10/29/24 10:29		Mohan	OK
7	ICV57	ICV57	ICV	10/29/24 10:32		Mohan	OK
8	ICB57	ICB57	ICB	10/29/24 10:34		Mohan	OK
9	CCV86	CCV86	CCV	10/29/24 10:36		Mohan	OK
10	CCB86	CCB86	CCB	10/29/24 10:39		Mohan	OK
11	CRA	CRA	CRDL	10/29/24 10:41		Mohan	OK
12	HighStd	HighStd	HIGH STD	10/29/24 10:43		Mohan	OK
13	ChkStd	ChkStd	SAM	10/29/24 10:45		Mohan	OK
14	PB164487BL	PB164487BL	MB	10/29/24 10:48		Mohan	OK
15	PB164487BS	PB164487BS	LCS	10/29/24 10:50		Mohan	OK
16	P4574-01	GRAVEL-1	SAM	10/29/24 10:52		Mohan	OK
17	P4574-01DUP	GRAVEL-1DUP	DUP	10/29/24 10:55		Mohan	OK
18	P4574-01MS	GRAVEL-1MS	MS	10/29/24 10:57		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133185

Review By	jaswal	Review On	10/30/2024 12:41:40 AM
Supervise By	mohan	Supervise On	10/30/2024 12:42:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP82944,MP82945,MP82946,MP82947,MP82948,MP82949
ICV Standard	MP82950
CCV Standard	MP82952
ICSA Standard	
CRI Standard	MP82954
LCS Standard	
Chk Standard	MP82951,MP82953,MP82955,MP82958

19	P4574-01MSD	GRAVEL-1MSD	MSD	10/29/24 10:59		Mohan	OK
20	P4574-04	GRAVEL-2	SAM	10/29/24 11:02		Mohan	OK
21	CCV87	CCV87	CCV	10/29/24 11:04		Mohan	OK
22	CCB87	CCB87	CCB	10/29/24 11:06		Mohan	OK
23	P4574-07	CONCRETE-1	SAM	10/29/24 11:08		Mohan	OK
24	P4574-09	CONCRETE-2	SAM	10/29/24 11:11		Mohan	OK
25	P4574-11	CONCRETE-3	SAM	10/29/24 11:13		Mohan	OK
26	P4575-01	PL-02-102424	SAM	10/29/24 11:15		Mohan	OK
27	P4577-01	TR-05-102524	SAM	10/29/24 11:17		Mohan	OK
28	P4578-03	WB-305-TOP	SAM	10/29/24 11:20	High	Mohan	Dilution
29	P4578-04	WB-305-TOP-1	SAM	10/29/24 11:22	High	Mohan	Dilution
30	P4578-05	WB-305-BOT	SAM	10/29/24 11:25		Mohan	OK
31	P4578-07	WB-305-BOT-1	SAM	10/29/24 11:27		Mohan	OK
32	P4594-01	TP-4	SAM	10/29/24 11:30		Mohan	OK
33	CCV88	CCV88	CCV	10/29/24 11:32		Mohan	OK
34	CCB88	CCB88	CCB	10/29/24 11:34		Mohan	OK
35	P4594-05	BP-F17	SAM	10/29/24 11:37		Mohan	OK
36	P4594-09	BP-F16	SAM	10/29/24 11:39		Mohan	OK
37	P4594-13	TP-5	SAM	10/29/24 11:41		Mohan	OK
38	P4594-17	BP-F15	SAM	10/29/24 11:43		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133185

Review By	jaswal	Review On	10/30/2024 12:41:40 AM
Supervise By	mohan	Supervise On	10/30/2024 12:42:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP82944,MP82945,MP82946,MP82947,MP82948,MP82949
ICV Standard	MP82950
CCV Standard	MP82952
ICSA Standard	
CRI Standard	MP82954
LCS Standard	
Chk Standard	MP82951,MP82953,MP82955,MP82958

39	P4595-01	PITKIN-COMP	SAM	10/29/24 11:46		Mohan	OK
40	P4574-01L	GRAVEL-1L	SD	10/29/24 11:48		Mohan	OK
41	P4574-01A	GRAVEL-1A	PS	10/29/24 11:50		Mohan	OK
42	P4578-03DL	WB-305-TOPDL	SAM	10/29/24 11:52	Report 10X	Mohan	Confirms
43	P4578-04DL	WB-305-TOP-1DL	SAM	10/29/24 11:55	Report 10X	Mohan	Confirms
44	CCV89	CCV89	CCV	10/29/24 11:57		Mohan	OK
45	CCB89	CCB89	CCB	10/29/24 11:59		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133198

Review By	kareem	Review On	11/5/2024 5:16:33 PM
Supervise By	jaswal	Supervise On	11/6/2024 9:01:10 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/29/24 11:33		Kareem	OK
2	S1	S1	CAL2	10/29/24 11:38		Kareem	OK
3	S2	S2	CAL3	10/29/24 11:42		Kareem	OK
4	S3	S3	CAL4	10/29/24 11:46		Kareem	OK
5	S4	S4	CAL5	10/29/24 11:50		Kareem	OK
6	S5	S5	CAL6	10/29/24 11:54		Kareem	OK
7	ICV01	ICV01	ICV	10/29/24 11:59	Fail for Al,Ba,Be,Cd,Ca,Mg,Mn,V (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	10/29/24 12:31		Kareem	OK
9	ICB01	ICB01	ICB	10/29/24 12:35		Kareem	OK
10	CRI01	CRI01	CRDL	10/29/24 12:40		Kareem	OK
11	ICSA01	ICSA01	ICSA	10/29/24 12:44		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	10/29/24 12:48		Kareem	OK
13	ICSADL	ICSADL	ICSA	10/29/24 12:53		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	10/29/24 12:57		Kareem	OK
15	CCV01	CCV01	CCV	10/29/24 13:01		Kareem	OK
16	CCB01	CCB01	CCB	10/29/24 13:06		Kareem	OK
17	P3645-01DL	914-J-WS-081524DL	SAM	10/29/24 13:11	Not Required	Kareem	Not Ok
18	P3645-01DUPDL	914-J-WS-081524DU	DUP	10/29/24 13:15	Not Required	Kareem	Not Ok

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Supervise By	jaswal	Supervise On	11/6/2024 9:01:10 PM

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ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

19	P3645-01LDL	914-J-WS-081524LDL	SD	10/29/24 13:19	Not Required	Kareem	Not Ok
20	P3645-01MSDL	914-J-WS-081524MS	MS	10/29/24 13:24	5x for Si	Kareem	Confirms
21	P3645-01MSDDL	914-J-WS-081524MS	MSD	10/29/24 13:28	5x for Si	Kareem	Confirms
22	P3645-01ADL	914-J-WS-081524ADL	PS	10/29/24 13:32	Not Required	Kareem	Not Ok
23	P4596-07	TOTE-WATER-COMP	SAM	10/29/24 13:36	NOT USE	Kareem	Not Ok
24	P4596-07DUP	TOTE-WATER-COMP	DUP	10/29/24 13:41	NOT USE	Kareem	Not Ok
25	P4596-07L	TOTE-WATER-COMP	SD	10/29/24 13:45	NOT USE	Kareem	Not Ok
26	P4596-07MS	TOTE-WATER-COMP	MS	10/29/24 13:49	NOT USE	Kareem	Not Ok
27	CCV02	CCV02	CCV	10/29/24 14:04		Kareem	OK
28	CCB02	CCB02	CCB	10/29/24 14:15		Kareem	OK
29	P4596-07MSD	TOTE-WATER-COMP	MSD	10/29/24 14:19	NOT USE	Kareem	Not Ok
30	P4596-07A	TOTE-WATER-COMP	PS	10/29/24 14:23	NOT USE	Kareem	Not Ok
31	PB164479BL	PB164479BL	MB	10/29/24 14:27		Kareem	OK
32	PB164479BS	PB164479BS	LCS	10/29/24 14:31	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
33	P4511-01	266	SAM	10/29/24 14:35		Kareem	OK
34	P4512-01	3140	SAM	10/29/24 14:40		Kareem	OK
35	P4512-02	3149	SAM	10/29/24 14:44		Kareem	OK
36	P4513-04	D3682	SAM	10/29/24 14:49		Kareem	OK
37	P4513-04DUP	D3682DUP	DUP	10/29/24 14:53		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133198

Review By	kareem	Review On	11/5/2024 5:16:33 PM
Supervise By	jaswal	Supervise On	11/6/2024 9:01:10 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

38	P4513-04L	D3682L	SD	10/29/24 14:58		Kareem	OK
39	CCV03	CCV03	CCV	10/29/24 15:02		Kareem	OK
40	CCB03	CCB03	CCB	10/29/24 15:06		Kareem	OK
41	P4513-04MS	D3682MS	MS	10/29/24 15:16	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
42	P4513-04MSD	D3682MSD	MSD	10/29/24 15:21	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
43	P4513-04A	D3682A	PS	10/29/24 15:25	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
44	PB164336TB	PB164336TB	MB	10/29/24 15:29		Kareem	OK
45	PB164379BL	PB164379BL	MB	10/29/24 15:34		Kareem	OK
46	PB164379BS	PB164379BS	LCS	10/29/24 15:38	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
47	P4491-02	COMP	SAM	10/29/24 15:42		Kareem	OK
48	P4546-03DL	34839-40DL	SAM	10/29/24 15:46	Straight 5x Dilution for all elements	Kareem	OK
49	P4548-01	MW-1	SAM	10/29/24 15:51		Kareem	OK
50	P4548-01DUP	MW-1DUP	DUP	10/29/24 15:55		Kareem	OK
51	CCV04	CCV04	CCV	10/29/24 15:59		Kareem	OK
52	CCB04	CCB04	CCB	10/29/24 16:03		Kareem	OK
53	P4548-01L	MW-1L	SD	10/29/24 16:11		Kareem	OK

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Supervise By	jaswal	Supervise On	11/6/2024 9:01:10 PM

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ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

54	P4548-01MS	MW-1MS	MS	10/29/24 16:15	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
55	P4548-01MSD	MW-1MSD	MSD	10/29/24 16:19	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
56	P4548-01A	MW-1A	PS	10/29/24 16:23	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
57	P4548-02	MW-1	SAM	10/29/24 16:27		Kareem	OK
58	P4548-03	MW-2	SAM	10/29/24 16:31		Kareem	OK
59	P4548-04	MW-2	SAM	10/29/24 16:35		Kareem	OK
60	P4548-05	MW-3	SAM	10/29/24 16:40		Kareem	OK
61	P4548-06	MW-3	SAM	10/29/24 16:44		Kareem	OK
62	P4548-07	MW-4	SAM	10/29/24 16:49		Kareem	OK
63	CCV05	CCV05	CCV	10/29/24 16:53		Kareem	OK
64	CCB05	CCB05	CCB	10/29/24 16:57		Kareem	OK
65	P4548-08	MW-4	SAM	10/29/24 17:05		Kareem	OK
66	P4564-01	100324	SAM	10/29/24 17:11		Kareem	OK
67	P4578-01	WB-305-SW	SAM	10/29/24 17:15	Na (OverSaturated)	Kareem	Dilution
68	P4578-02	WB-305-SW-1	SAM	10/29/24 17:20	Na (OverSaturated)	Kareem	Dilution
69	LR1	LR1	HIGH STD	10/29/24 17:33		Kareem	OK
70	LR2	LR2	HIGH STD	10/29/24 17:38		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB133198

Review By	kareem	Review On	11/5/2024 5:16:33 PM
Supervise By	jaswal	Supervise On	11/6/2024 9:01:10 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

71	P4564-01DL	100324DL	SAM	10/29/24 17:45	Not Required	Kareem	Not Ok
72	P4578-01DL	WB-305-SWDL	SAM	10/29/24 17:49	5x for Na	Kareem	Confirms
73	CCV06	CCV06	CCV	10/29/24 17:53		Kareem	OK
74	CCB06	CCB06	CCB	10/29/24 17:58		Kareem	OK
75	P4578-02DL	WB-305-SW-1DL	SAM	10/29/24 18:02	5x for Na	Kareem	Confirms
76	PB164438BL	PB164438BL	MB	10/29/24 18:07		Kareem	OK
77	PB164438BS	PB164438BS	LCS	10/29/24 18:16	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
78	CCV07	CCV07	CCV	10/29/24 18:20		Kareem	OK
79	CCB07	CCB07	CCB	10/29/24 18:24		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	mohan	Supervise On	11/12/2024 1:05:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/08/24 13:34		Kareem	OK
2	S1	S1	CAL2	11/08/24 13:38		Kareem	OK
3	S2	S2	CAL3	11/08/24 13:43		Kareem	OK
4	S3	S3	CAL4	11/08/24 13:47		Kareem	OK
5	S4	S4	CAL5	11/08/24 13:51		Kareem	OK
6	S5	S5	CAL6	11/08/24 13:55		Kareem	OK
7	ICV01	ICV01	ICV	11/08/24 13:59	ICV fail for Na (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	11/08/24 14:11		Kareem	OK
9	ICB01	ICB01	ICB	11/08/24 14:16		Kareem	OK
10	CRI01	CRI01	CRDL	11/08/24 14:20		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/08/24 14:24		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/08/24 14:30		Kareem	OK
13	ICSADL	ICSADL	ICSA	11/08/24 14:35		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	11/08/24 14:40		Kareem	OK
15	CCV01	CCV01	CCV	11/08/24 14:44		Kareem	OK
16	CCB01	CCB01	CCB	11/08/24 14:50		Kareem	OK
17	P4578-04DL	WB-305-TOP-1DL	SAM	11/08/24 14:55	5x for Cr	Kareem	Confirms
18	P4719-03	BAYAVE-STOCKPILE	SAM	11/08/24 14:59		Kareem	OK

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Supervise By	mohan	Supervise On	11/12/2024 1:05:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

19	P4720-05	JC-701-COMP-01	SAM	11/08/24 15:03		Kareem	OK
20	P4734-01	EO-03-11062024	SAM	11/08/24 15:07		Kareem	OK
21	P4757-01	001-WILLETS-PT-BL	SAM	11/08/24 15:12		Kareem	OK
22	P4757-02	002-35TH-AVE(SEP)	SAM	11/08/24 15:16		Kareem	OK
23	P4757-03	001-WILLETS-PT-BL	SAM	11/08/24 15:20		Kareem	OK
24	P4757-04	002-35TH-AVE(OCT)	SAM	11/08/24 15:25		Kareem	OK
25	CCV02	CCV02	CCV	11/08/24 15:29		Kareem	OK
26	CCB02	CCB02	CCB	11/08/24 15:33		Kareem	OK
27	P4718-03	WB-307-SB02	SAM	11/08/24 15:39	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
28	P4718-03DUP	WB-307-SB02DUP	DUP	11/08/24 15:44	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
29	P4718-03L	WB-307-SB02L	SD	11/08/24 15:48	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
30	P4718-03MS	WB-307-SB02MS	MS	11/08/24 15:52	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
31	P4718-03MSD	WB-307-SB02MSD	MSD	11/08/24 15:57	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
32	P4718-03A	WB-307-SB02A	PS	11/08/24 16:01	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
33	P4722-04	WC-1(0-6)	SAM	11/08/24 16:06		Kareem	OK
34	P4722-09	WC-2(0-6)	SAM	11/08/24 16:10		Kareem	OK
35	P4722-14	WC-3(0-6)	SAM	11/08/24 16:15		Kareem	OK
36	P4732-02	PPE-COMP	SAM	11/08/24 16:19		Kareem	OK

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Supervise By	mohan	Supervise On	11/12/2024 1:05:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

37	CCV03	CCV03	CCV	11/08/24 16:23		Kareem	OK
38	CCB03	CCB03	CCB	11/08/24 16:28		Kareem	OK
39	P4738-02	72-12018	SAM	11/08/24 16:32		Kareem	OK
40	P4739-04	TP-14	SAM	11/08/24 16:36		Kareem	OK
41	P4739-08	BP-G2	SAM	11/08/24 16:41		Kareem	OK
42	P4739-12	BP-B2	SAM	11/08/24 16:45		Kareem	OK
43	P4739-16	TP-11	SAM	11/08/24 16:50		Kareem	OK
44	PB164694TB	PB164694TB	MB	11/08/24 16:54		Kareem	OK
45	PB164768BL	PB164768BL	MB	11/08/24 16:59		Kareem	OK
46	PB164768BS	PB164768BS	LCS	11/08/24 17:03		Kareem	OK
47	P4762-02	EFF-WW	SAM	11/08/24 17:07		Kareem	OK
48	P4762-02DUP	EFF-WWDUP	DUP	11/08/24 17:11		Kareem	OK
49	CCV04	CCV04	CCV	11/08/24 17:16		Kareem	OK
50	CCB04	CCB04	CCB	11/08/24 17:22		Kareem	OK
51	P4762-02L	EFF-WWL	SD	11/08/24 17:26		Kareem	OK
52	P4762-02MS	EFF-WWMS	MS	11/08/24 17:31		Kareem	OK
53	P4762-02MSD	EFF-WWMSD	MSD	11/08/24 17:35		Kareem	OK
54	P4762-02A	EFF-WWA	PS	11/08/24 17:39		Kareem	OK
55	PB164782BL	PB164782BL	MB	11/08/24 17:43		Kareem	OK
56	PB164782BS	PB164782BS	LCS	11/08/24 17:47		Kareem	OK

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Supervise By	mohan	Supervise On	11/12/2024 1:05:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

57	P4732-01	PPE-COMP	SAM	11/08/24 17:51		Kareem	OK
58	P4737-01	TP2	SAM	11/08/24 17:55		Kareem	OK
59	P4738-01	72-12018	SAM	11/08/24 18:00		Kareem	OK
60	CCV05	CCV05	CCV	11/08/24 18:04		Kareem	OK
61	CCB05	CCB05	CCB	11/08/24 18:08		Kareem	OK
62	P4739-01	TP-14	SAM	11/08/24 18:13		Kareem	OK
63	P4739-05	BP-G2	SAM	11/08/24 18:17		Kareem	OK
64	P4739-09	BP-B2	SAM	11/08/24 18:21		Kareem	OK
65	P4739-13	TP-11	SAM	11/08/24 18:26		Kareem	OK
66	P4739-13DUP	TP-11DUP	DUP	11/08/24 18:30		Kareem	OK
67	P4739-13L	TP-11L	SD	11/08/24 18:34		Kareem	OK
68	P4739-13MS	TP-11MS	MS	11/08/24 18:38		Kareem	OK
69	P4739-13MSD	TP-11MSD	MSD	11/08/24 18:42		Kareem	OK
70	P4739-13A	TP-11A	PS	11/08/24 18:47		Kareem	OK
71	PB164757BL	PB164757BL	MB	11/08/24 18:51		Kareem	OK
72	CCV06	CCV06	CCV	11/08/24 18:55		Kareem	OK
73	CCB06	CCB06	CCB	11/08/24 18:59		Kareem	OK
74	PB164757BS	PB164757BS	LCS	11/08/24 19:03		Kareem	OK
75	P4733-01	402	SAM	11/08/24 19:08		Kareem	OK
76	P4733-01DUP	402DUP	DUP	11/08/24 19:12		Kareem	OK

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Supervise By	mohan	Supervise On	11/12/2024 1:05:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

77	P4733-01L	402L	SD	11/08/24 19:17		Kareem	OK
78	P4733-01MS	402MS	MS	11/08/24 19:21		Kareem	OK
79	P4733-01MSD	402MSD	MSD	11/08/24 19:25		Kareem	OK
80	P4733-01A	402A	PS	11/08/24 19:29		Kareem	OK
81	PB164758BL	PB164758BL	MB	11/08/24 19:34		Kareem	OK
82	PB164758BS	PB164758BS	LCS	11/08/24 19:38		Kareem	OK
83	P4718-04	WB-307-SW	SAM	11/08/24 19:42	Na (Oversaturated)	Kareem	Dilution
84	CCV07	CCV07	CCV	11/08/24 19:47		Kareem	OK
85	CCB07	CCB07	CCB	11/08/24 19:51		Kareem	OK
86	P4718-04DUP	WB-307-SWDUP	DUP	11/08/24 19:55	Na (Oversaturated)	Kareem	Dilution
87	P4718-04L	WB-307-SWL	SD	11/08/24 20:00	Na high	Kareem	Dilution
88	P4718-04MS	WB-307-SWMS	MS	11/08/24 20:04	Na (Oversaturated)	Kareem	Dilution
89	P4718-04MSD	WB-307-SWMSD	MSD	11/08/24 20:09	Na (Oversaturated)	Kareem	Dilution
90	P4718-04A	WB-307-SWA	PS	11/08/24 20:14	Na (Oversaturated)	Kareem	Dilution
91	P4736-02	COMP	SAM	11/08/24 20:18		Kareem	OK
92	PB164759BL	PB164759BL	MB	11/08/24 20:22	NOT USE - fail for Na	Kareem	Not Ok
93	PB164759BS	PB164759BS	LCS	11/08/24 20:27	NOT USE - fail for Na	Kareem	Not Ok
94	LR1	LR1	HIGH STD	11/08/24 20:38		Kareem	OK
95	LR2	LR2	HIGH STD	11/08/24 20:42		Kareem	OK
96	CCV08	CCV08	CCV	11/08/24 20:48		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	mohan	Supervise On	11/12/2024 1:05:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

97	CCB08	CCB08	CCB	11/08/24 20:57		Kareem	OK
98	PB164646BL	PB164646BL	MB	11/08/24 21:02		Kareem	OK
99	PB164646BS	PB164646BS	LCS	11/08/24 21:06		Kareem	OK
100	PB164645BL	PB164645BL	MB	11/08/24 21:10	NOT USE	Kareem	Not Ok
101	PB164645BS	PB164645BS	LCS	11/08/24 21:14	NOT USE	Kareem	Not Ok
102	P4718-04DL	WB-307-SWDL	SAM	11/08/24 21:18	10x for Na	Kareem	Confirms
103	P4718-04DUPDL	WB-307-SWDUPDL	DUP	11/08/24 21:23	10x for Na	Kareem	Confirms
104	P4718-04LDL	WB-307-SWLDL	SD	11/08/24 21:27	50x for Na	Kareem	Confirms
105	P4718-04MSDL	WB-307-SWMSDL	MS	11/08/24 21:31	10x for Na	Kareem	Confirms
106	P4718-04MSDDL	WB-307-SWMSDDL	MSD	11/08/24 21:36	10x for Na	Kareem	Confirms
107	P4718-04ADL	WB-307-SWADL	PS	11/08/24 21:40	10x for Na	Kareem	Confirms
108	CCV09	CCV09	CCV	11/08/24 21:50		Kareem	OK
109	CCB09	CCB09	CCB	11/08/24 21:55		Kareem	OK
110	P4681-01	Q4-WW	SAM	11/08/24 21:59	NOT USE	Kareem	Not Ok
111	P4681-01DL	Q4-WWDL	SAM	11/08/24 22:24	Straight 25x Dilution for all elements	Kareem	OK
112	P4681-01DUPDL	Q4-WWDUPDL	DUP	11/08/24 22:29	Straight 25x Dilution for all elements	Kareem	OK
113	P4681-01LDL	Q4-WWLDL	SD	11/08/24 22:33	Straight 25x Dilution for all elements	Kareem	OK
114	P4681-01MSDL	Q4-WWMSDL	MS	11/08/24 22:44	Straight 25x Dilution for all elements	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	mohan	Supervise On	11/12/2024 1:05:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

115	P4681-01MSDDL	Q4-WWMSDDL	MSD	11/08/24 22:53	Straight 25x Dilution for all elements	Kareem	OK
116	P4681-01ADL	Q4-WWADL	PS	11/08/24 23:07	Straight 25x Dilution for all elements	Kareem	OK
117	CCV10	CCV10	CCV	11/08/24 23:24		Kareem	OK
118	CCB10	CCB10	CCB	11/08/24 23:35		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164415

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 10/25/2024 **Time :** 16:15 **Temp :** 95 °C

End Digest Date: 10/25/2024 **Time :** 18:25 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: JSP

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6000
LFS-2	1.00	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP81119
Conc. HNO3	5.00	M6097
30% H2O2	3.00	M5634
CONC: HCL	10.00	M6040
PTFE Boiling Stones	N/A	M5585
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

Hot Block # 3 Cell # 35 Temp: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/25/24 18:30	JSP / Met dig.	Metals Lab
	Preparation Group	Analysts Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164415

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4531-01	OR-03-102424	N/A	2.46	100	Brown	Yellow	Medium	N/A	N/A	1
P4545-01	VNJ-215	N/A	2.19	100	Brown	Yellow	Medium	N/A	N/A	2
P4547-01	BP-F-21	N/A	2.28	100	Brown	Yellow	Medium	N/A	N/A	3
P4547-05	BP-F-20	N/A	2.46	100	Brown	Yellow	Medium	N/A	N/A	4
P4547-05MS	BP-F-20MS	N/A	2.32	100	Brown	Yellow	Medium	N/A	M6000,M6009	6
P4547-05MSD	BP-F-20MSD	N/A	2.19	100	Brown	Yellow	Medium	N/A	M6000,M6009	7
P4547-05DUP	BP-F-20DUP	N/A	2.17	100	Brown	Yellow	Medium	N/A	N/A	5
P4561-01	BP-F-19	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	8
P4561-05	BP-F-18	N/A	2.44	100	Brown	Yellow	Medium	N/A	N/A	9
P4566-01	HD-01-102524	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	10
P4567-01	WC-1	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	11
P4567-05	WC-2	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	12
P4567-09	WC-3	N/A	2.25	100	Brown	Yellow	Medium	N/A	N/A	13
P4578-03	WB-305-TOP	N/A	2.17	100	Brown	Yellow	Medium	N/A	N/A	14
P4578-04	WB-305-TOP-1	N/A	2.10	100	Brown	Yellow	Medium	N/A	N/A	15
P4578-05	WB-305-BOT	N/A	2.05	100	Brown	Yellow	Medium	N/A	N/A	16
P4578-07	WB-305-BOT-1	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	17
PB164415BL	PBS415	N/A	2.37	100	Colorless	Colorless	Fine	N/A	N/A	18
PB164415BS	LCS415	N/A	2.37	100	Colorless	Colorless	Fine	N/A	M6000,M6009	19

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164438

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 10/26/2024 **Time :** 09:40 **Temp :** 95 °C

End Digest Date: 10/26/2024 **Time :** 12:50 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JPP

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
CONC: HNO3	3.00	M6097
1:1 HCL	5.00	MP82127
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

Hot Block # 1 Cell # 50 Temp: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/26/24 12:55	JPP / Met Dig.	5 / Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164438

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4491-02	COMP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
P4546-03	34839-40	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	2
P4548-01	MW-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	3
P4548-01MS	MW-1MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	5
P4548-01MSD	MW-1MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	6
P4548-01DUP	MW-1DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	4
P4548-02	MW-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	7
P4548-03	MW-2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	8
P4548-04	MW-2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	9
P4548-05	MW-3	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	10
P4548-06	MW-3	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	11
P4548-07	MW-4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	12
P4548-08	MW-4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	13
P4564-01	100324	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	14
P4578-01	WB-305-SW	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	15
P4578-02	WB-305-SW-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	16
PB164438BL	PBW438	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	17
PB164438BS	LCS438	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	18

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164472

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 10/25/2024 **Time :** 08:10 **Temp :** 94 °C

End Digest Date: 10/25/2024 **Time :** 10:10 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP82934
CCV	30mL	MP82936
CRA	30mL	MP82938
Blank Spike	0.48mL	M P82926
Matrix Spike	0.48mL	MP82926

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP82651
KMnO4 (5%)	4.5mL	MP82652
K2S2O8 (5%)	2.5mL	MP82653
Hydroxylamine HCL (12%)	2.0mL	MP82654
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP82927
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP82929
2.5 ppb	S2.5	30mL	MP82930
5.0 ppb	S5.0	30mL	MP82931
7.5 ppb	S7.5	30mL	MP82932
10.0 ppb	S10.0	30mL	MP82933
ICV	ICV	30mL	MP82934
ICB	ICB	30mL	MP82935
CCV	CCV	30mL	MP82936
CCB	CCB	30mL	MP82937
CRI	CRI	30mL	MP82938
CHK STD	CHK STD	30mL	MP82939

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/25/24 @ 10:30	MB - Dig. Lab	MB - Metal Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164472

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4549-02	TT-067-IDWGW-20241024	30	30	<2	N/A	3-1
P4549-02DUP	TT-067-IDWGW-20241024DUP	30	30	<2	N/A	2
P4549-02MS	TT-067-IDWGW-20241024MS	30	30	<2	MP82926	3
P4549-02MSD	TT-067-IDWGW-20241024MSD	30	30	<2	MP82926	4
P4549-03	TT-068-IDWGW-20241024	30	30	<2	N/A	5
P4549-04	TT-069-IDWGW-20241024	30	30	<2	N/A	6
P4564-01	100324	30	30	<2	N/A	7
P4578-01	WB-305-SW	30	30	<2	N/A	8
P4578-02	WB-305-SW-1	30	30	<2	N/A	9
PB164472BL	PBW472	30	30	<2	N/A	10
PB164472BS	LCS472	30	30	<2	MP82926	11

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164487

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 10/28/2024 **Time :** 16:15 **Temp :** 95 °C

End Digest Date: 10/28/2024 **Time :** 16:45 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP82950
CCV	30mL	MP82952
CRA	30mL	MP82954
Blank Spike	0.48mL	MP82943
Matrix Spike	0.48mL	MP82943

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP82956
KMnO4 (5%)	4.5mL	MP82652
Hydroxylamine HCL (12%)	2.0mL	MP82654
PTFE Boiling Stones	----------	M4583
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP82944
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP82945
2.5 ppb	S2.5	30mL	MP82946
5.0 ppb	S5.0	30mL	MP82947
7.5 ppb	S7.5	30mL	MP82948
10.0 ppb	S10.0	30mL	MP82949
ICV	ICV	30mL	MP82950
ICB	ICB	30mL	MP82935
CCV	CCV	30mL	MP82952
CCB	CCB	30mL	MP82953
CRI	CRI	30mL	MP82954
CHK STD	CHK STD	30mL	MP82955

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/24 @ 17:10	MB - Dig-cab	MB - metal cab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164487

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
P4574-01	GRAVEL-1	0.55	35	NA	N/A	3-1
P4574-01DUP	GRAVEL-1DUP	0.54	35	NA	N/A	2
P4574-01MS	GRAVEL-1MS	0.52	35	NA	MP82943	3
P4574-01MSD	GRAVEL-1MSD	0.54	35	NA	MP82943	4
P4574-04	GRAVEL-2	0.55	35	NA	N/A	5
P4574-07	CONCRETE-1	0.59	35	NA	N/A	6
P4574-09	CONCRETE-2	0.50	35	NA	N/A	7
P4574-11	CONCRETE-3	0.59	35	NA	N/A	8
P4575-01	PL-02-102424	0.54	35	NA	N/A	9
P4577-01	TR-05-102524	0.51	35	NA	N/A	10
P4578-03	WB-305-TOP	0.56	35	NA	N/A	11
P4578-04	WB-305-TOP-1	0.56	35	NA	N/A	12
P4578-05	WB-305-BOT	0.59	35	NA	N/A	13
P4578-07	WB-305-BOT-1	0.52	35	NA	N/A	14
P4594-01	TP-4	0.53	35	NA	N/A	15
P4594-05	BP-F17	0.56	35	NA	N/A	16
P4594-09	BP-F16	0.53	35	NA	N/A	17
P4594-13	TP-5	0.51	35	NA	N/A	18
P4594-17	BP-F15	0.51	35	NA	N/A	19
P4595-01	PITKIN-COMP	0.50	35	NA	N/A	20
PB164487BL	PBS487	0.56	35	NA	N/A	21
PB164487BS	LCS487	0.52	35	NA	MP82943	22

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.:	P4578	**Order ID:**	P4578
Client:	Portal Partners Tri-Venture	**Project ID:**	Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-305-BOT								
P4578-06	WB-305-BOT	TCLP	Barium	558		62.8	500	ug/L
P4578-06	WB-305-BOT	TCLP	Cadmium	1.68	J	0.94	30.0	ug/L
P4578-06	WB-305-BOT	TCLP	Chromium	17.2	J	6.60	50.0	ug/L
Client ID : WB-305-BOT-1								
P4578-08	WB-305-BOT-1	TCLP	Barium	492	J	62.8	500	ug/L
P4578-08	WB-305-BOT-1	TCLP	Cadmium	1.08	J	0.94	30.0	ug/L
P4578-08	WB-305-BOT-1	TCLP	Chromium	42.4	J	6.60	50.0	ug/L

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-06	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	10/27/24 11:00	10/28/24 18:25	SW6010	SW3050
7440-39-3	Barium	558		1	62.8	500	ug/L	10/27/24 11:00	10/28/24 18:25	SW6010	SW3050
7440-43-9	Cadmium	1.68	J	1	0.94	30.0	ug/L	10/27/24 11:00	10/28/24 18:25	SW6010	SW3050
7440-47-3	Chromium	17.2	J	1	6.60	50.0	ug/L	10/27/24 11:00	10/28/24 18:25	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	10/27/24 11:00	10/28/24 18:25	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	10/28/24 12:15	10/29/24 09:10	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	10/27/24 11:00	10/28/24 18:25	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	10/27/24 11:00	10/28/24 18:25	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-08	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	10/27/24 11:00	10/28/24 18:29	SW6010	SW3050
7440-39-3	Barium	492	J	1	62.8	500	ug/L	10/27/24 11:00	10/28/24 18:29	SW6010	SW3050
7440-43-9	Cadmium	1.08	J	1	0.94	30.0	ug/L	10/27/24 11:00	10/28/24 18:29	SW6010	SW3050
7440-47-3	Chromium	42.4	J	1	6.60	50.0	ug/L	10/27/24 11:00	10/28/24 18:29	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	10/27/24 11:00	10/28/24 18:29	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	10/28/24 12:15	10/29/24 09:12	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	10/27/24 11:00	10/28/24 18:29	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	10/27/24 11:00	10/28/24 18:29	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB56	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	08:17	LB133181

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB82	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	08:22	LB133181
CCB83	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	08:49	LB133181
CCB84	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	09:16	LB133181
CCB85	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	09:39	LB133181

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	13:08	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	13:08	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	13:08	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	13:08	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	13:08	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	13:08	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	13:08	LB133175

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	13:39	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	13:39	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	13:39	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	13:39	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	13:39	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	13:39	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	13:39	LB133175
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	14:30	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	14:30	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	14:30	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	14:30	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	14:30	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	14:30	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	14:30	LB133175
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	15:20	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	15:20	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	15:20	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	15:20	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	15:20	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	15:20	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	15:20	LB133175
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	16:10	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	16:10	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	16:10	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	16:10	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	16:10	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	16:10	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	16:10	LB133175
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	17:01	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	17:01	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	17:01	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	17:01	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	17:01	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	17:01	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	17:01	LB133175
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	17:54	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	17:54	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	17:54	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	17:54	LB133175

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	17:54	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	17:54	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	17:54	LB133175
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	18:47	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	18:47	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	18:47	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	18:47	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	18:47	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	18:47	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	18:47	LB133175
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	19:37	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	19:37	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	19:37	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	19:37	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	19:37	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	19:37	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	19:37	LB133175
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	20:26	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	20:26	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	20:26	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	20:26	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	20:26	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	20:26	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	20:26	LB133175
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	21:25	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	21:25	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	21:25	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	21:25	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	21:25	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	21:25	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	21:25	LB133175
CCB11	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	21:43	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	21:43	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	21:43	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	21:43	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	21:43	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	21:43	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	21:43	LB133175

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164393TB		**WATER**		**Batch Number:**	**PB164477**		**Prep Date:**	**10/28/2024**	
	Mercury	2.00	<2.00	U	2.00	CV	10/29/2024	09:30	LB133181

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164477BL		**WATER**		**Batch Number:**	**PB164477**		**Prep Date:**	**10/28/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	10/29/2024	08:31	LB133181

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164393TB		**WATER**		**Batch Number:**	**PB164453**		**Prep Date:**	**10/27/2024**	
	Arsenic	100	<100	U	100	P	10/28/2024	19:04	LB133175
	Barium	500	<500	U	500	P	10/28/2024	19:04	LB133175
	Cadmium	30.0	<30.0	U	30.0	P	10/28/2024	19:04	LB133175
	Chromium	45.3	<50.0	J	50.0	P	10/28/2024	19:04	LB133175
	Lead	60.0	<60.0	U	60.0	P	10/28/2024	19:04	LB133175
	Selenium	100	<100	U	100	P	10/28/2024	19:04	LB133175
	Silver	50.0	<50.0	U	50.0	P	10/28/2024	19:04	LB133175

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164453BL		**WATER**		**Batch Number:**	**PB164453**		**Prep Date:**	**10/27/2024**	
	Arsenic	100	<100	U	100	P	10/28/2024	19:08	LB133175
	Barium	500	<500	U	500	P	10/28/2024	19:08	LB133175
	Cadmium	30.0	<30.0	U	30.0	P	10/28/2024	19:08	LB133175
	Chromium	50.0	<50.0	U	50.0	P	10/28/2024	19:08	LB133175
	Lead	60.0	<60.0	U	60.0	P	10/28/2024	19:08	LB133175
	Selenium	100	<100	U	100	P	10/28/2024	19:08	LB133175
	Silver	50.0	<50.0	U	50.0	P	10/28/2024	19:08	LB133175

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV56	Mercury	3.87	4.0	97	90 - 110	CV	10/29/2024	08:15	LB133181

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV82	Mercury	5.04	5.0	101	90 - 110	CV	10/29/2024	08:20	LB133181
CCV83	Mercury	4.91	5.0	98	90 - 110	CV	10/29/2024	08:47	LB133181
CCV84	Mercury	4.59	5.0	92	90 - 110	CV	10/29/2024	09:14	LB133181
CCV85	Mercury	5.09	5.0	102	90 - 110	CV	10/29/2024	09:37	LB133181

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	975	1000	98	90 - 110	P	10/28/2024	12:57	LB133175
	Barium	483	520	93	90 - 110	P	10/28/2024	12:57	LB133175
	Cadmium	494	510	97	90 - 110	P	10/28/2024	12:57	LB133175
	Chromium	532	520	102	90 - 110	P	10/28/2024	12:57	LB133175
	Lead	983	1000	98	90 - 110	P	10/28/2024	12:57	LB133175
	Selenium	1010	1000	101	90 - 110	P	10/28/2024	12:57	LB133175
	Silver	273	250	109	90 - 110	P	10/28/2024	12:57	LB133175

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	18.8	20.0	94	80 - 120	P	10/28/2024	13:04	LB133175
	Barium	94.7	100	95	80 - 120	P	10/28/2024	13:04	LB133175
	Cadmium	5.66	6.0	94	80 - 120	P	10/28/2024	13:04	LB133175
	Chromium	9.20	10.0	92	80 - 120	P	10/28/2024	13:04	LB133175
	Lead	11.0	12.0	92	80 - 120	P	10/28/2024	13:04	LB133175
	Selenium	18.6	20.0	93	80 - 120	P	10/28/2024	13:04	LB133175
	Silver	11.3	10.0	113	80 - 120	P	10/28/2024	13:04	LB133175

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4870	5000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Barium	9340	10000	93	90 - 110	P	10/28/2024	13:35	LB133175
	Cadmium	2430	2500	97	90 - 110	P	10/28/2024	13:35	LB133175
	Chromium	969	1000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Lead	4840	5000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Selenium	4920	5000	98	90 - 110	P	10/28/2024	13:35	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	13:35	LB133175
CCV02	Arsenic	4910	5000	98	90 - 110	P	10/28/2024	14:25	LB133175
	Barium	9410	10000	94	90 - 110	P	10/28/2024	14:25	LB133175
	Cadmium	2440	2500	98	90 - 110	P	10/28/2024	14:25	LB133175
	Chromium	959	1000	96	90 - 110	P	10/28/2024	14:25	LB133175
	Lead	4860	5000	97	90 - 110	P	10/28/2024	14:25	LB133175
	Selenium	4970	5000	100	90 - 110	P	10/28/2024	14:25	LB133175
	Silver	1240	1250	99	90 - 110	P	10/28/2024	14:25	LB133175
CCV03	Arsenic	5060	5000	101	90 - 110	P	10/28/2024	15:15	LB133175
	Barium	9730	10000	97	90 - 110	P	10/28/2024	15:15	LB133175
	Cadmium	2470	2500	99	90 - 110	P	10/28/2024	15:15	LB133175
	Chromium	980	1000	98	90 - 110	P	10/28/2024	15:15	LB133175
	Lead	4940	5000	99	90 - 110	P	10/28/2024	15:15	LB133175
	Selenium	5150	5000	103	90 - 110	P	10/28/2024	15:15	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	15:15	LB133175
CCV04	Arsenic	5020	5000	100	90 - 110	P	10/28/2024	16:06	LB133175
	Barium	9800	10000	98	90 - 110	P	10/28/2024	16:06	LB133175
	Cadmium	2440	2500	98	90 - 110	P	10/28/2024	16:06	LB133175
	Chromium	974	1000	97	90 - 110	P	10/28/2024	16:06	LB133175
	Lead	4870	5000	97	90 - 110	P	10/28/2024	16:06	LB133175
	Selenium	5100	5000	102	90 - 110	P	10/28/2024	16:06	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	16:06	LB133175
CCV05	Arsenic	5210	5000	104	90 - 110	P	10/28/2024	16:57	LB133175
	Barium	9800	10000	98	90 - 110	P	10/28/2024	16:57	LB133175
	Cadmium	2490	2500	100	90 - 110	P	10/28/2024	16:57	LB133175
	Chromium	965	1000	96	90 - 110	P	10/28/2024	16:57	LB133175
	Lead	4990	5000	100	90 - 110	P	10/28/2024	16:57	LB133175
	Selenium	5400	5000	108	90 - 110	P	10/28/2024	16:57	LB133175

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1280	1250	102	90 - 110	P	10/28/2024	16:57	LB133175
CCV06	Arsenic	5080	5000	102	90 - 110	P	10/28/2024	17:50	LB133175
	Barium	9780	10000	98	90 - 110	P	10/28/2024	17:50	LB133175
	Cadmium	2490	2500	100	90 - 110	P	10/28/2024	17:50	LB133175
	Chromium	973	1000	97	90 - 110	P	10/28/2024	17:50	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	17:50	LB133175
	Selenium	5210	5000	104	90 - 110	P	10/28/2024	17:50	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	17:50	LB133175
CCV07	Arsenic	5110	5000	102	90 - 110	P	10/28/2024	18:43	LB133175
	Barium	9750	10000	98	90 - 110	P	10/28/2024	18:43	LB133175
	Cadmium	2480	2500	99	90 - 110	P	10/28/2024	18:43	LB133175
	Chromium	966	1000	97	90 - 110	P	10/28/2024	18:43	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	18:43	LB133175
	Selenium	5270	5000	106	90 - 110	P	10/28/2024	18:43	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	18:43	LB133175
CCV08	Arsenic	5290	5000	106	90 - 110	P	10/28/2024	19:33	LB133175
	Barium	10000	10000	100	90 - 110	P	10/28/2024	19:33	LB133175
	Cadmium	2570	2500	103	90 - 110	P	10/28/2024	19:33	LB133175
	Chromium	989	1000	99	90 - 110	P	10/28/2024	19:33	LB133175
	Lead	5130	5000	103	90 - 110	P	10/28/2024	19:33	LB133175
	Selenium	5470	5000	110	90 - 110	P	10/28/2024	19:33	LB133175
	Silver	1310	1250	105	90 - 110	P	10/28/2024	19:33	LB133175
CCV09	Arsenic	5200	5000	104	90 - 110	P	10/28/2024	20:22	LB133175
	Barium	9830	10000	98	90 - 110	P	10/28/2024	20:22	LB133175
	Cadmium	2530	2500	101	90 - 110	P	10/28/2024	20:22	LB133175
	Chromium	975	1000	98	90 - 110	P	10/28/2024	20:22	LB133175
	Lead	5040	5000	101	90 - 110	P	10/28/2024	20:22	LB133175
	Selenium	5360	5000	107	90 - 110	P	10/28/2024	20:22	LB133175
	Silver	1290	1250	103	90 - 110	P	10/28/2024	20:22	LB133175
CCV10	Arsenic	5180	5000	104	90 - 110	P	10/28/2024	21:21	LB133175
	Barium	9840	10000	98	90 - 110	P	10/28/2024	21:21	LB133175
	Cadmium	2500	2500	100	90 - 110	P	10/28/2024	21:21	LB133175
	Chromium	967	1000	97	90 - 110	P	10/28/2024	21:21	LB133175
	Lead	4980	5000	100	90 - 110	P	10/28/2024	21:21	LB133175

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Selenium	5330	5000	107	90 - 110	P	10/28/2024	21:21	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	21:21	LB133175
CCV11	Arsenic	5220	5000	104	90 - 110	P	10/28/2024	21:38	LB133175
	Barium	10100	10000	101	90 - 110	P	10/28/2024	21:38	LB133175
	Cadmium	2480	2500	99	90 - 110	P	10/28/2024	21:38	LB133175
	Chromium	970	1000	97	90 - 110	P	10/28/2024	21:38	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	21:38	LB133175
	Selenium	5380	5000	108	90 - 110	P	10/28/2024	21:38	LB133175
	Silver	1290	1250	103	90 - 110	P	10/28/2024	21:38	LB133175

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Arsenic	19.1	20.0	96	40 - 160	P	10/28/2024	13:12	LB133175
	Barium	93.7	100	94	40 - 160	P	10/28/2024	13:12	LB133175
	Cadmium	5.55	6.0	92	40 - 160	P	10/28/2024	13:12	LB133175
	Chromium	9.13	10.0	91	40 - 160	P	10/28/2024	13:12	LB133175
	Lead	11.5	12.0	96	40 - 160	P	10/28/2024	13:12	LB133175
	Selenium	17.6	20.0	88	40 - 160	P	10/28/2024	13:12	LB133175
	Silver	11.0	10.0	110	40 - 160	P	10/28/2024	13:12	LB133175
CRA	Mercury	0.18	0.2	90	40 - 160	CV	10/29/2024	08:24	LB133181

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	2.59			-20	20	10/28/2024	13:16	LB133175
	Barium	2.22	6.0	37	-94	106	10/28/2024	13:16	LB133175
	Cadmium	6.97	1.0	697	-5	7	10/28/2024	13:16	LB133175
	Chromium	56.5	52.0	109	42	62	10/28/2024	13:16	LB133175
	Lead	8.36			-12	12	10/28/2024	13:16	LB133175
	Selenium	-9.09			-20	20	10/28/2024	13:16	LB133175
	Silver	3.99			-10	10	10/28/2024	13:16	LB133175
ICSAB01	Arsenic	107	104	103	88.4	120	10/28/2024	13:21	LB133175
	Barium	472	537	88	437	637	10/28/2024	13:21	LB133175
	Cadmium	967	972	100	826	1120	10/28/2024	13:21	LB133175
	Chromium	556	542	103	460	624	10/28/2024	13:21	LB133175
	Lead	55.7	49.0	114	37	61	10/28/2024	13:21	LB133175
	Selenium	39.8	46.0	86	26	66	10/28/2024	13:21	LB133175
	Silver	212	201	106	170	232	10/28/2024	13:21	LB133175

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Water **sample id:** P4578-08 **client id:** WB-305-BOT-1MS

Percent Solids for Sample: NA **Spiked ID:** P4578-08MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3670		100	U	4000	92		P
Barium	ug/L	75 - 125	1330		492	J	1000	84		P
Cadmium	ug/L	75 - 125	874		1.08	J	1000	87		P
Chromium	ug/L	75 - 125	1910		42.4	J	2000	94		P
Lead	ug/L	75 - 125	4140		60.0	U	5000	83		P
Mercury	ug/L	75 - 125	38.7		2.00	U	40.0	97		CV
Selenium	ug/L	75 - 125	9380		100	U	10000	94		P
Silver	ug/L	75 - 125	373		50.0	U	380	98		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Water **sample id:** P4578-08 **client id:** WB-305-BOT-1MSD

Percent Solids for Sample: NA **Spiked ID:** P4578-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3710		100	U	4000	93		P
Barium	ug/L	75 - 125	1330		492	J	1000	84		P
Cadmium	ug/L	75 - 125	874		1.08	J	1000	87		P
Chromium	ug/L	75 - 125	1920		42.4	J	2000	94		P
Lead	ug/L	75 - 125	4140		60.0	U	5000	83		P
Mercury	ug/L	75 - 125	37.2		2.00	U	40.0	93		CV
Selenium	ug/L	75 - 125	9510		100	U	10000	95		P
Silver	ug/L	75 - 125	381		50.0	U	380	100		P

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Metals
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Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Sample ID:** P4578-08 **Client ID:** WB-305-BOT-1DUP

Percent Solids for Sample: NA **Duplicate ID** P4578-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	492	J	472	J	4		P
Cadmium	ug/L	20	1.08	J	1.39	J	25		P
Chromium	ug/L	20	42.4	J	41.7	J	2		P
Lead	ug/L	20	60.0	U	60.0	U			P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Sample ID:** P4578-08MS **Client ID:** WB-305-BOT-1MSD

Percent Solids for Sample: NA **Duplicate ID** P4578-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3670		3710		1		P
Barium	ug/L	20	1330		1330		0		P
Cadmium	ug/L	20	874		874		0		P
Chromium	ug/L	20	1910		1920		1		P
Lead	ug/L	20	4140		4140		0		P
Mercury	ug/L	20	38.7		37.2		4		CV
Selenium	ug/L	20	9380		9510		1		P
Silver	ug/L	20	373		381		2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164453BS							
Arsenic	ug/L	4000	3870		97	80 - 120	P
Barium	ug/L	1000	945		94	80 - 120	P
Cadmium	ug/L	1000	943		94	80 - 120	P
Chromium	ug/L	2000	2000		100	80 - 120	P
Lead	ug/L	5000	4800		96	80 - 120	P
Selenium	ug/L	10000	10100		101	80 - 120	P
Silver	ug/L	380	399		105	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164477BS							
Mercury	ug/L	4.0	3.96		99	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

WB-305-BOT-1L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133175 **Lab Sample ID :** P4578-08L **SDG No.:** P4578

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	100	U	500	U			P
Barium	492	J	418	J	15		P
Cadmium	1.08	J	150	U	100.0		P
Chromium	42.4	J	250	U	100.0		P
Lead	60.0	U	300	U			P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133175

Start date: 10/28/2024 **End date:** 10/28/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1158	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1203	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1207	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1211	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1216	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1220	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1257	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1304	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1308	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1312	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1316	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1321	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA	ICSA	20	1327	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB	ICSAB	20	1331	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1335	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1339	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1425	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1430	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1515	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1520	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1606	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1610	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1657	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1701	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1750	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1754	Ag,As,Ba,Cd,Cr,Pb,Se
P4578-06	WB-305-BOT	1	1825	Ag,As,Ba,Cd,Cr,Pb,Se
P4578-08	WB-305-BOT-1	1	1829	Ag,As,Ba,Cd,Cr,Pb,Se
P4578-08DUP	WB-305-BOT-1DUP	1	1834	Ag,As,Ba,Cd,Cr,Pb,Se
P4578-08L	WB-305-BOT-1L	5	1838	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1843	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1847	Ag,As,Ba,Cd,Cr,Pb,Se
P4578-08MS	WB-305-BOT-1MS	1	1851	Ag,As,Ba,Cd,Cr,Pb,Se
P4578-08MSD	WB-305-BOT-1MSD	1	1855	Ag,As,Ba,Cd,Cr,Pb,Se
PB164393TB	PB164393TB	1	1904	Ag,As,Ba,Cd,Cr,Pb,Se
PB164453BL	PB164453BL	1	1908	Ag,As,Ba,Cd,Cr,Pb,Se
PB164453BS	PB164453BS	1	1912	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1933	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1937	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	2022	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	2026	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133175

Start date: 10/28/2024 **End date:** 10/28/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV10	CCV10	1	2121	Ag,As,Ba,Cd,Cr,Pb,Se
CCB10	CCB10	1	2125	Ag,As,Ba,Cd,Cr,Pb,Se
CCV11	CCV11	1	2138	Ag,As,Ba,Cd,Cr,Pb,Se
CCB11	CCB11	1	2143	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133181

Start date: 10/29/2024 **End date:** 10/29/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0801	HG
S0.2	S0.2	1	0803	HG
S2.5	S2.5	1	0805	HG
S5	S5	1	0808	HG
S7.5	S7.5	1	0810	HG
S10	S10	1	0812	HG
ICV56	ICV56	1	0815	HG
ICB56	ICB56	1	0817	HG
CCV82	CCV82	1	0820	HG
CCB82	CCB82	1	0822	HG
CRA	CRA	1	0824	HG
PB164477BL	PB164477BL	1	0831	HG
PB164477BS	PB164477BS	1	0833	HG
CCV83	CCV83	1	0847	HG
CCB83	CCB83	1	0849	HG
P4578-06	WB-305-BOT	1	0910	HG
P4578-08	WB-305-BOT-1	1	0912	HG
CCV84	CCV84	1	0914	HG
CCB84	CCB84	1	0916	HG
P4578-08DUP	WB-305-BOT-1DUP	1	0919	HG
P4578-08MS	WB-305-BOT-1MS	1	0926	HG
P4578-08MSD	WB-305-BOT-1MSD	1	0928	HG
PB164393TB	PB164393TB	1	0930	HG
P4578-08L	WB-305-BOT-1L	5	0933	HG
CCV85	CCV85	1	0937	HG
CCB85	CCB85	1	0939	HG

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000

Alliance TECHNICAL GROUP
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LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	**WB-305-SW**	**Water**			**10/25/24**			**10/25/24**
			Mercury	7470A		10/25/24	10/28/24	
			Metals ICP-TAL	6010D		10/26/24	10/29/24	
P4578-02	**WB-305-SW-1**	**Water**			**10/25/24**			**10/25/24**
			Mercury	7470A		10/25/24	10/28/24	
			Metals ICP-TAL	6010D		10/26/24	10/29/24	
P4578-03	**WB-305-TOP**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4578-04	**WB-305-TOP-1**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4578-05	**WB-305-BOT**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP ICP Metals	6010D		10/27/24	10/28/24	
			TCLP Mercury	7470A		10/28/24	10/29/24	
P4578-07	**WB-305-BOT-1**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP ICP Metals	6010D		10/27/24	10/28/24	
			TCLP Mercury	7470A		10/28/24	10/29/24	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4578 **SAS No.:** P4578

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164453**						
P4578-06	WB-305-BOT	SAM	WATER	10/27/2024	5.0	25.0	
P4578-08	WB-305-BOT-1	SAM	WATER	10/27/2024	5.0	25.0	
P4578-08DUP	WB-305-BOT-1DUP	DUP	WATER	10/27/2024	5.0	25.0	
P4578-08MS	WB-305-BOT-1MS	MS	WATER	10/27/2024	5.0	25.0	
P4578-08MSD	WB-305-BOT-1MSD	MSD	WATER	10/27/2024	5.0	25.0	
PB164393TB	PB164393TB	MB	WATER	10/27/2024	5.0	25.0	
PB164453BL	PB164453BL	MB	WATER	10/27/2024	5.0	25.0	
PB164453BS	PB164453BS	LCS	WATER	10/27/2024	5.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4578 **SAS No.:** P4578

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164477**						
P4578-06	WB-305-BOT	SAM	WATER	10/28/2024	3.0	30.0	
P4578-08	WB-305-BOT-1	SAM	WATER	10/28/2024	3.0	30.0	
P4578-08DUP	WB-305-BOT-1DUP	DUP	WATER	10/28/2024	3.0	30.0	
P4578-08MS	WB-305-BOT-1MS	MS	WATER	10/28/2024	3.0	30.0	
P4578-08MSD	WB-305-BOT-1MSD	MSD	WATER	10/28/2024	3.0	30.0	
PB164393TB	PB164393TB	MB	WATER	10/28/2024	3.0	30.0	
PB164477BL	PB164477BL	MB	WATER	10/28/2024	30.0	30.0	
PB164477BS	PB164477BS	LCS	WATER	10/28/2024	30.0	30.0	

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/28/24 11:58		Kareem	OK
2	S1	S1	CAL2	10/28/24 12:03		Kareem	OK
3	S2	S2	CAL3	10/28/24 12:07		Kareem	OK
4	S3	S3	CAL4	10/28/24 12:11		Kareem	OK
5	S4	S4	CAL5	10/28/24 12:16		Kareem	OK
6	S5	S5	CAL6	10/28/24 12:20		Kareem	OK
7	ICV01	ICV01	ICV	10/28/24 12:57	Fail for Ba,Mn,K,Ag,Zn (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	10/28/24 13:04		Kareem	OK
9	ICB01	ICB01	ICB	10/28/24 13:08		Kareem	OK
10	CRI01	CRI01	CRDL	10/28/24 13:12		Kareem	OK
11	ICSA01	ICSA01	ICSA	10/28/24 13:16		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	10/28/24 13:21		Kareem	OK
13	ICSADL	ICSADL	ICSA	10/28/24 13:27		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	10/28/24 13:31		Kareem	OK
15	CCV01	CCV01	CCV	10/28/24 13:35		Kareem	OK
16	CCB01	CCB01	CCB	10/28/24 13:39		Kareem	OK
17	P4549-02	TT-067-IDWGW-2024	SAM	10/28/24 13:44		Kareem	OK
18	P4549-03	TT-068-IDWGW-2024	SAM	10/28/24 13:48		Kareem	OK

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Instrument ID: P4

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ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

19	P4549-04	TT-069-IDWGW-2024	SAM	10/28/24 13:52		Kareem	OK
20	P4549-04DUP	TT-069-IDWGW-2024	DUP	10/28/24 13:57		Kareem	OK
21	P4549-04L	TT-069-IDWGW-2024	SD	10/28/24 14:01		Kareem	OK
22	P4549-04MS	TT-069-IDWGW-2024	MS	10/28/24 14:05	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
23	P4549-04MSD	TT-069-IDWGW-2024	MSD	10/28/24 14:09	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
24	P4549-04A	TT-069-IDWGW-2024	PS	10/28/24 14:13	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
25	PB164404BL	PB164404BL	MB	10/28/24 14:17		Kareem	OK
26	PB164404BS	PB164404BS	LCS	10/28/24 14:21	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
27	CCV02	CCV02	CCV	10/28/24 14:25		Kareem	OK
28	CCB02	CCB02	CCB	10/28/24 14:30		Kareem	OK
29	P4554-01	001-WILLETS-PT-BL\	SAM	10/28/24 14:34		Kareem	OK
30	P4554-02	002-35TH-AVE(SEP)	SAM	10/28/24 14:38		Kareem	OK
31	P4554-02DUP	002-35TH-AVE(SEP)[	DUP	10/28/24 14:42		Kareem	OK
32	P4554-02L	002-35TH-AVE(SEP)L	SD	10/28/24 14:46		Kareem	OK
33	P4554-02MS	002-35TH-AVE(SEP)M	MS	10/28/24 14:51	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK

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Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

34	P4554-02MSD	002-35TH-AVE(SEP)M	MSD	10/28/24 14:55	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
35	P4554-02A	002-35TH-AVE(SEP)A	PS	10/28/24 14:59	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
36	PB164410BL	PB164410BL	MB	10/28/24 15:03		Kareem	OK
37	PB164410BS	PB164410BS	LCS	10/28/24 15:07	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
38	P3440-01	923-K1-WS-080124	SAM	10/28/24 15:11		Kareem	OK
39	CCV03	CCV03	CCV	10/28/24 15:15		Kareem	OK
40	CCB03	CCB03	CCB	10/28/24 15:20		Kareem	OK
41	P3440-01DUP	923-K1-WS-080124DU	DUP	10/28/24 15:24		Kareem	OK
42	P3440-01L	923-K1-WS-080124L	SD	10/28/24 15:28		Kareem	OK
43	P3440-02	923-K1-WS-080124M	MS	10/28/24 15:33	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
44	P3440-03	923-K1-WS-080124M	MSD	10/28/24 15:37	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
45	P3440-01A	923-K1-WS-080124A	PS	10/28/24 15:41	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
46	P3440-04	922-K1-WS-080124	SAM	10/28/24 15:45		Kareem	OK
47	PB164476BL	PB164476BL	MB	10/28/24 15:49		Kareem	OK

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Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

48	PB164476BS	PB164476BS	LCS	10/28/24 15:54	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
49	P4574-01	GRAVEL-1	SAM	10/28/24 15:58		Kareem	OK
50	P4574-04	GRAVEL-2	SAM	10/28/24 16:02		Kareem	OK
51	CCV04	CCV04	CCV	10/28/24 16:06		Kareem	OK
52	CCB04	CCB04	CCB	10/28/24 16:10		Kareem	OK
53	P4574-07	CONCRETE-1	SAM	10/28/24 16:15		Kareem	OK
54	P4574-09	CONCRETE-2	SAM	10/28/24 16:19	Cr high	Kareem	Dilution
55	P4574-11	CONCRETE-3	SAM	10/28/24 16:23	Cr high	Kareem	Dilution
56	P4575-01	PL-02-102424	SAM	10/28/24 16:28		Kareem	OK
57	P4577-01	TR-05-102524	SAM	10/28/24 16:32		Kareem	OK
58	P4577-01DUP	TR-05-102524DUP	DUP	10/28/24 16:36		Kareem	OK
59	P4577-01L	TR-05-102524L	SD	10/28/24 16:41		Kareem	OK
60	P4577-01MS	TR-05-102524MS	MS	10/28/24 16:45	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
61	P4577-01MSD	TR-05-102524MSD	MSD	10/28/24 16:49	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
62	P4577-01A	TR-05-102524A	PS	10/28/24 16:53	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
63	CCV05	CCV05	CCV	10/28/24 16:57		Kareem	OK
64	CCB05	CCB05	CCB	10/28/24 17:01		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

65	PB164439BL	PB164439BL	MB	10/28/24 17:06		Kareem	OK
66	PB164439BS	PB164439BS	LCS	10/28/24 17:10	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
67	P4452-03	ETGI-285	SAM	10/28/24 17:14		Kareem	OK
68	P4545-02	VNJ-215	SAM	10/28/24 17:19		Kareem	OK
69	P4547-04	BP-F-21	SAM	10/28/24 17:23		Kareem	OK
70	P4547-08	BP-F-20	SAM	10/28/24 17:28		Kareem	OK
71	P4561-04	BP-F-19	SAM	10/28/24 17:32		Kareem	OK
72	P4561-08	BP-F-18	SAM	10/28/24 17:36		Kareem	OK
73	P4567-04	WC-1	SAM	10/28/24 17:41		Kareem	OK
74	P4567-08	WC-2	SAM	10/28/24 17:45		Kareem	OK
75	CCV06	CCV06	CCV	10/28/24 17:50		Kareem	OK
76	CCB06	CCB06	CCB	10/28/24 17:54		Kareem	OK
77	P4567-12	WC-3	SAM	10/28/24 17:58		Kareem	OK
78	P4574-03	GRAVEL-1	SAM	10/28/24 18:03		Kareem	OK
79	P4574-06	GRAVEL-2	SAM	10/28/24 18:07		Kareem	OK
80	P4574-08	CONCRETE-1	SAM	10/28/24 18:12		Kareem	OK
81	P4574-10	CONCRETE-2	SAM	10/28/24 18:16		Kareem	OK
82	P4574-12	CONCRETE-3	SAM	10/28/24 18:21		Kareem	OK
83	P4578-06	WB-305-BOT	SAM	10/28/24 18:25		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

84	P4578-08	WB-305-BOT-1	SAM	10/28/24 18:29		Kareem	OK
85	P4578-08DUP	WB-305-BOT-1DUP	DUP	10/28/24 18:34		Kareem	OK
86	P4578-08L	WB-305-BOT-1L	SD	10/28/24 18:38		Kareem	OK
87	CCV07	CCV07	CCV	10/28/24 18:43		Kareem	OK
88	CCB07	CCB07	CCB	10/28/24 18:47		Kareem	OK
89	P4578-08MS	WB-305-BOT-1MS	MS	10/28/24 18:51	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
90	P4578-08MSD	WB-305-BOT-1MSD	MSD	10/28/24 18:55	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
91	P4578-08A	WB-305-BOT-1A	PS	10/28/24 18:59	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
92	PB164393TB	PB164393TB	MB	10/28/24 19:04		Kareem	OK
93	PB164453BL	PB164453BL	MB	10/28/24 19:08		Kareem	OK
94	PB164453BS	PB164453BS	LCS	10/28/24 19:12	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
95	P4547-01	BP-F-21	SAM	10/28/24 19:16		Kareem	OK
96	P4547-05	BP-F-20	SAM	10/28/24 19:21		Kareem	OK
97	P4531-01	OR-03-102424	SAM	10/28/24 19:25		Kareem	OK
98	P4545-01	VNJ-215	SAM	10/28/24 19:29		Kareem	OK
99	CCV08	CCV08	CCV	10/28/24 19:33		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

100	CCB08	CCB08	CCB	10/28/24 19:37		Kareem	OK
101	P4547-05DUP	BP-F-20DUP	DUP	10/28/24 19:42		Kareem	OK
102	P4547-05L	BP-F-20L	SD	10/28/24 19:46		Kareem	OK
103	P4547-05MS	BP-F-20MS	MS	10/28/24 19:50	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
104	P4547-05MSD	BP-F-20MSD	MSD	10/28/24 19:54	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
105	P4547-05A	BP-F-20A	PS	10/28/24 19:58	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
106	P4561-01	BP-F-19	SAM	10/28/24 20:02		Kareem	OK
107	P4561-05	BP-F-18	SAM	10/28/24 20:06		Kareem	OK
108	P4566-01	HD-01-102524	SAM	10/28/24 20:10		Kareem	OK
109	P4567-01	WC-1	SAM	10/28/24 20:14		Kareem	OK
110	P4567-05	WC-2	SAM	10/28/24 20:18		Kareem	OK
111	CCV09	CCV09	CCV	10/28/24 20:22		Kareem	OK
112	CCB09	CCB09	CCB	10/28/24 20:26		Kareem	OK
113	P4567-09	WC-3	SAM	10/28/24 20:31		Kareem	OK
114	P4578-03	WB-305-TOP	SAM	10/28/24 20:35		Kareem	OK
115	P4578-04	WB-305-TOP-1	SAM	10/28/24 20:39	Cr high	Kareem	Dilution
116	P4578-05	WB-305-BOT	SAM	10/28/24 20:43		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

117	P4578-07	WB-305-BOT-1	SAM	10/28/24 20:47		Kareem	OK
118	P4574-09DL	CONCRETE-2DL	SAM	10/28/24 20:59	5x for Cr	Kareem	Confirms
119	P4574-11DL	CONCRETE-3DL	SAM	10/28/24 21:04	5x for Cr	Kareem	Confirms
120	PB164415BL	PB164415BL	MB	10/28/24 21:08		Kareem	OK
121	PB164415BS	PB164415BS	LCS	10/28/24 21:12	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
122	CCV10	CCV10	CCV	10/28/24 21:21		Kareem	OK
123	CCB10	CCB10	CCB	10/28/24 21:25		Kareem	OK
124	LR1	LR1	HIGH STD	10/28/24 21:29		Kareem	OK
125	LR2	LR2	HIGH STD	10/28/24 21:34		Kareem	OK
126	CCV11	CCV11	CCV	10/28/24 21:38		Kareem	OK
127	CCB11	CCB11	CCB	10/28/24 21:43		Kareem	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133181

Review By	jaswal	Review On	10/30/2024 12:41:53 AM
Supervise By	mohan	Supervise On	10/30/2024 12:42:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP82944,MP82945,MP82946,MP82947,MP82948,MP82949
ICV Standard	MP82950
CCV Standard	MP82952
ICSA Standard	
CRI Standard	MP82954
LCS Standard	
Chk Standard	MP82951,MP82953,MP82955,MP82958

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/29/24 08:01		Mohan	OK
2	S0.2	S0.2	CAL2	10/29/24 08:03		Mohan	OK
3	S2.5	S2.5	CAL3	10/29/24 08:05		Mohan	OK
4	S5	S5	CAL4	10/29/24 08:08		Mohan	OK
5	S7.5	S7.5	CAL5	10/29/24 08:10		Mohan	OK
6	S10	S10	CAL6	10/29/24 08:12		Mohan	OK
7	ICV56	ICV56	ICV	10/29/24 08:15		Mohan	OK
8	ICB56	ICB56	ICB	10/29/24 08:17		Mohan	OK
9	CCV82	CCV82	CCV	10/29/24 08:20		Mohan	OK
10	CCB82	CCB82	CCB	10/29/24 08:22		Mohan	OK
11	CRA	CRA	CRDL	10/29/24 08:24		Mohan	OK
12	HighStd	HighStd	HIGH STD	10/29/24 08:26		Mohan	OK
13	ChkStd	ChkStd	SAM	10/29/24 08:29		Mohan	OK
14	PB164477BL	PB164477BL	MB	10/29/24 08:31		Mohan	OK
15	PB164477BS	PB164477BS	LCS	10/29/24 08:33		Mohan	OK
16	P4545-02	VNJ-215	SAM	10/29/24 08:36		Mohan	OK
17	P4547-04	BP-F-21	SAM	10/29/24 08:38		Mohan	OK
18	P4547-08	BP-F-20	SAM	10/29/24 08:40		Mohan	OK

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Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133181

Review By	jaswal	Review On	10/30/2024 12:41:53 AM
Supervise By	mohan	Supervise On	10/30/2024 12:42:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP82944,MP82945,MP82946,MP82947,MP82948,MP82949
ICV Standard	MP82950
CCV Standard	MP82952
ICSA Standard	
CRI Standard	MP82954
LCS Standard	
Chk Standard	MP82951,MP82953,MP82955,MP82958

19	P4561-04	BP-F-19	SAM	10/29/24 08:42		Mohan	OK
20	P4561-08	BP-F-18	SAM	10/29/24 08:45		Mohan	OK
21	CCV83	CCV83	CCV	10/29/24 08:47		Mohan	OK
22	CCB83	CCB83	CCB	10/29/24 08:49		Mohan	OK
23	P4567-04	WC-1	SAM	10/29/24 08:51		Mohan	OK
24	P4567-08	WC-2	SAM	10/29/24 08:54		Mohan	OK
25	P4567-12	WC-3	SAM	10/29/24 08:56		Mohan	OK
26	P4574-03	GRAVEL-1	SAM	10/29/24 08:58		Mohan	OK
27	P4574-06	GRAVEL-2	SAM	10/29/24 09:00		Mohan	OK
28	P4574-08	CONCRETE-1	SAM	10/29/24 09:03		Mohan	OK
29	P4574-10	CONCRETE-2	SAM	10/29/24 09:05		Mohan	OK
30	P4574-12	CONCRETE-3	SAM	10/29/24 09:07		Mohan	OK
31	P4578-06	WB-305-BOT	SAM	10/29/24 09:10		Mohan	OK
32	P4578-08	WB-305-BOT-1	SAM	10/29/24 09:12		Mohan	OK
33	CCV84	CCV84	CCV	10/29/24 09:14		Mohan	OK
34	CCB84	CCB84	CCB	10/29/24 09:16		Mohan	OK
35	P4578-08DUP	WB-305-BOT-1DUP	DUP	10/29/24 09:19		Mohan	OK
36	P4578-08MS	WB-305-BOT-1MS	MS	10/29/24 09:26		Mohan	OK
37	P4578-08MSD	WB-305-BOT-1MSD	MSD	10/29/24 09:28		Mohan	OK
38	PB164393TB	PB164393TB	MB	10/29/24 09:30		Mohan	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133181

Review By	jaswal	Review On	10/30/2024 12:41:53 AM
Supervise By	mohan	Supervise On	10/30/2024 12:42:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP82944,MP82945,MP82946,MP82947,MP82948,MP82949
ICV Standard	MP82950
CCV Standard	MP82952
ICSA Standard	
CRI Standard	MP82954
LCS Standard	
Chk Standard	MP82951,MP82953,MP82955,MP82958

39	P4578-08L	WB-305-BOT-1L	SD	10/29/24 09:33		Mohan	OK
40	P4578-08A	WB-305-BOT-1A	PS	10/29/24 09:35		Mohan	OK
41	CCV85	CCV85	CCV	10/29/24 09:37		Mohan	OK
42	CCB85	CCB85	CCB	10/29/24 09:39		Mohan	OK

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164453

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 10/27/2024 **Time :** 11:00 **Temp :** 95 °C

End Digest Date: 10/27/2024 **Time :** 14:00 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JSP

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6097
1:1 HCL	5.00	MP82127
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

Hot Block # 1 Cell # 35 Temp: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/27/24 14:10	jsp/Met dig	Conestoga Rs Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164453

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4452-03	ETGI-285	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	1
P4545-02	VNJ-215	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	2
P4547-04	BP-F-21	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	3
P4547-08	BP-F-20	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	4
P4561-04	BP-F-19	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	5
P4561-08	BP-F-18	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	6
P4567-04	WC-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	7
P4567-08	WC-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	8
P4567-12	WC-3	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	9
P4574-03	GRAVEL-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	10
P4574-06	GRAVEL-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	11
P4574-08	CONCRETE-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	12
P4574-10	CONCRETE-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	13
P4574-12	CONCRETE-3	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	14
P4578-06	WB-305-BOT	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	15
P4578-08	WB-305-BOT-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	16
P4578-08DUP	WB-305-BOT-1DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	17
P4578-08MS	WB-305-BOT-1MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	18
P4578-08MSD	WB-305-BOT-1MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	19
PB164393TB	PB164393TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	20
PB164453BL	PBW453	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	21
PB164453BS	LCS453	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	22

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164477

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 10/28/2024 **Time :** 12:15 **Temp :** 94 °C

End Digest Date: 10/28/2024 **Time :** 14:15 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP82950
CCV	30mL	MP82952
CRA	30mL	MP82954
Blank Spike	0.48mL	MP82943
Matrix Spike	0.48mL	MP82943

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP82651
KMnO4 (5%)	4.5mL	MP82652
K2S2O8 (5%)	2.5mL	MP82653
Hydroxylamine HCL (12%)	2.0mL	MP82654
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP82944
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP82945
2.5 ppb	S2.5	30mL	MP82946
5.0 ppb	S5.0	30mL	MP82947
7.5 ppb	S7.5	30mL	MP82948
10.0 ppb	S10.0	30mL	MP82949
ICV	ICV	30mL	MP82950
ICB	ICB	30mL	MP82951
CCV	CCV	30mL	MP82952
CCB	CCB	30mL	MP82953
CRI	CRI	30mL	MP82954
CHK STD	CHK STD	30mL	MP82955

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/24 @ 14:40	MB - 3314 - Lab	MB - MCHU Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164477

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4545-02	VNJ-215	3	30	<2	N/A	3-1
P4547-04	BP-F-21	3	30	<2	N/A	2
P4547-08	BP-F-20	3	30	<2	N/A	3
P4561-04	BP-F-19	3	30	<2	N/A	4
P4561-08	BP-F-18	3	30	<2	N/A	5
P4567-04	WC-1	3	30	<2	N/A	6
P4567-08	WC-2	3	30	<2	N/A	7
P4567-12	WC-3	3	30	<2	N/A	8
P4574-03	GRAVEL-1	3	30	<2	N/A	9
P4574-06	GRAVEL-2	3	30	<2	N/A	10
P4574-08	CONCRETE-1	3	30	<2	N/A	11
P4574-10	CONCRETE-2	3	30	<2	N/A	12
P4574-12	CONCRETE-3	3	30	<2	N/A	13
P4578-06	WB-305-BOT	3	30	<2	N/A	14
P4578-08	WB-305-BOT-1	3	30	<2	N/A	15
P4578-08DUP	WB-305-BOT-1DUP	3	30	<2	N/A	16
P4578-08MS	WB-305-BOT-1MS	3	30	<2	MP82943	17
P4578-08MSD	WB-305-BOT-1MSD	3	30	<2	MP82943	18
PB164393TB	PB164393TB	3	30	<2	N/A	19
PB164477BL	PBW477	30	30	<2	N/A	20
PB164477BS	LCS477	30	30	<2	MP82943	21

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164393

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 114771

Start Prep Date : 10/25/2024 **Time :** 17:40

End Prep Date : 10/26/2024 **Time :** 10:37

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Tumbler T-1 / T-2 CHECKED,30 RPM. Particle size reduction is not required. p4578-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/26/24 11:45	JP TCLP Room	JP [illegible]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164393

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4452-03	ETGI-285	01	100.03	2000	N/A	N/A	N/A	11.0	1.5	T-1
P4545-02	VNJ-215	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4547-04	BP-F-21	03	100.01	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4547-08	BP-F-20	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4561-04	BP-F-19	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4561-08	BP-F-18	06	100.04	2000	N/A	N/A	N/A	4.0	1.0	T-1
P4567-04	WC-1	07	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4567-08	WC-2	08	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4567-12	WC-3	09	100.04	2000	N/A	N/A	N/A	7.6	1.5	T-1
P4574-03	GRAVEL-1	10	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4574-06	GRAVEL-2	11	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
P4574-08	CONCRETE-1	12	100.02	2000	N/A	N/A	N/A	10.5	1.0	T-2
P4574-10	CONCRETE-2	13	100.02	2000	N/A	N/A	N/A	10.5	1.5	T-2
P4574-12	CONCRETE-3	14	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-2
P4578-06	WB-305-BOT	15	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-2
P4578-08	WB-305-BOT-1	16	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-2
PB164393TB	LEB393	17	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4452-03	ETGI-285	N/A	N/A	N/A	N/A	100	N/A
P4545-02	VNJ-215	N/A	N/A	N/A	N/A	100	N/A
P4547-04	BP-F-21	N/A	N/A	N/A	N/A	100	N/A
P4547-08	BP-F-20	N/A	N/A	N/A	N/A	100	N/A
P4561-04	BP-F-19	N/A	N/A	N/A	N/A	100	N/A
P4561-08	BP-F-18	N/A	N/A	N/A	N/A	100	N/A
P4567-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
P4567-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
P4567-12	WC-3	N/A	N/A	N/A	N/A	100	N/A
P4574-03	GRAVEL-1	N/A	N/A	N/A	N/A	100	N/A
P4574-06	GRAVEL-2	N/A	N/A	N/A	N/A	100	N/A
P4574-08	CONCRETE-1	N/A	N/A	N/A	N/A	100	N/A
P4574-10	CONCRETE-2	N/A	N/A	N/A	N/A	100	N/A
P4574-12	CONCRETE-3	N/A	N/A	N/A	N/A	100	N/A
P4578-06	WB-305-BOT	N/A	N/A	N/A	N/A	100	N/A
P4578-08	WB-305-BOT-1	N/A	N/A	N/A	N/A	100	N/A
PB164393TB	LEB393	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB164393

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4452-03	ETGI-285	5.02	96.5	11.0	4.0	#1	4.93
P4545-02	VNJ-215	5.02	96.5	7.6	2.5	#1	4.93
P4547-04	BP-F-21	5.00	96.5	6.2	2.0	#1	4.93
P4547-08	BP-F-20	5.03	96.5	8.2	3.0	#1	4.93
P4561-04	BP-F-19	5.02	96.5	7.6	2.5	#1	4.93
P4561-08	BP-F-18	5.02	96.5	7.0	2.5	#1	4.93
P4567-04	WC-1	5.03	96.5	9.1	4.0	#1	4.93
P4567-08	WC-2	5.02	96.5	9.5	4.0	#1	4.93
P4567-12	WC-3	5.02	96.5	7.2	3.0	#1	4.93
P4574-03	GRAVEL-1	5.02	96.5	6.0	2.0	#1	4.93
P4574-06	GRAVEL-2	5.03	96.5	5.6	1.5	#1	4.93
P4574-08	CONCRETE-1	5.02	96.5	11.0	4.0	#1	4.93
P4574-10	CONCRETE-2	5.03	96.5	11.0	4.0	#1	4.93
P4574-12	CONCRETE-3	5.02	96.5	11.5	4.5	#1	4.93
P4578-06	WB-305-BOT	5.03	96.5	7.6	2.5	#1	4.93
P4578-08	WB-305-BOT-1	5.02	96.5	8.2	3.0	#1	4.93
PB164393TB	LEB393	N/A	N/A	N/A	N/A	#1	4.93

SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24 08:20
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		10/25/24 17:24	7196A
trivalent Chromium	0.010	U	1	0.010	0.010	mg/L		10/29/24 17:15	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24 08:30
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		10/25/24 17:28	7196A
trivalent Chromium	0.010	U	1	0.010	0.010	mg/L		10/29/24 17:20	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24 09:20
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
		% Solid:	53.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.15	U	1	0.15	0.74	mg/Kg	10/28/24 12:20	10/28/24 16:17	7196A
Trivalent Chromium	135		1	0.93	0.93	mg/Kg		10/28/24 20:35	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24 09:30
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
		% Solid:	58.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.13	U	1	0.13	0.67	mg/Kg	10/28/24 12:20	10/28/24 16:18	7196A
Trivalent Chromium	185		1	0.85	0.85	mg/Kg		10/28/24 20:39	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24 11:15
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
		% Solid:	82.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.095	U	1	0.095	0.48	mg/Kg	10/28/24 12:20	10/28/24 16:21	7196A
Trivalent Chromium	10.7		1	0.61	0.61	mg/Kg		10/28/24 20:43	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24 11:15
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-06	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.71	H	1	0	0	pH		10/25/24 18:00	9045D
Ignitability	NO		1	0	0	oC		10/29/24 11:08	1030
Reactive Cyanide	0.0088	U	1	0.0088	0.050	mg/Kg	10/29/24 09:00	10/29/24 13:34	9012B
Reactive Sulfide	4.78	J	1	0.19	10.0	mg/Kg	10/26/24 09:30	10/26/24 12:10	9034

Comments: pH result reported at temperature 21.2 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24 11:20
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
		% Solid:	94.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.082	U	1	0.082	0.42	mg/Kg	10/28/24 12:20	10/28/24 16:22	7196A
Trivalent Chromium	11.7		1	0.53	0.53	mg/Kg		10/28/24 20:47	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24 11:20
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-08	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.10	H	1	0	0	pH		10/25/24 18:10	9045D
Ignitability	NO		1	0	0	oC		10/29/24 11:15	1030
Reactive Cyanide	0.0087	U	1	0.0087	0.050	mg/Kg	10/29/24 09:00	10/29/24 13:34	9012B
Reactive Sulfide	4.76	J	1	0.19	10.0	mg/Kg	10/26/24 09:30	10/26/24 12:12	9034

Comments: pH result reported at temperature 21.4 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4578
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133136

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.504	0.5	101	90-110	10/25/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.505	0.5	101	90-110	10/25/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.500	0.5	100	90-110	10/25/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4578
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133138

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
Corrosivity	pH	7.00	7	100	90-110	10/25/2024
Sample ID: **CCV1**						
Corrosivity	pH	2.01	2.00	101	90-110	10/25/2024
Sample ID: **CCV2**						
Corrosivity	pH	12.02	12.00	100	90-110	10/25/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4578
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133174

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.502	0.5	100	90-110	10/28/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	10/28/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	10/28/2024
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	10/28/2024
Sample ID: CCV4						
Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	10/28/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4578
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133190

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.099	0.099	100	85-115	10/29/2024
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	10/29/2024
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	10/29/2024
Sample ID: CCV3						
Reactive Cyanide	mg/L	0.26	0.25	104	90-110	10/29/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4578
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133136

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/25/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/25/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/25/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4578
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133174

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/28/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/28/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/28/2024
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/28/2024
Sample ID: CCB4							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/28/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4578
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133190

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/29/2024
Sample ID: CCB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/29/2024
Sample ID: CCB2							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/29/2024
Sample ID: CCB3							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/29/2024

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Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Project: Amtrak Sawtooth Bridges 2024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133136BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	10/25/2024
Sample ID: PB164406BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	10/28/2024
Sample ID: PB164425BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.186	10	10/26/2024
Sample ID: PB164488BL							
Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0088	0.05	10/29/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4578
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4547-01
Client ID: BP-F-21MS
Percent Solids for Spike Sample: 88.9

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1420		0.089	U	1440	40	99		10/28/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4578
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4547-01
Client ID: BP-F-21MS
Percent Solids for Spike Sample: 88.9

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	44.5		0.089	U	45	2	99		10/28/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4578
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4547-01
Client ID: BP-F-21MS
Percent Solids for Spike Sample: 88.9

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	41.1		0.089	U	45	2	91		10/28/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4578
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4578-01
Client ID: WB-305-SWMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	1.00		0.0030	U	1.0	2	100		10/25/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4578
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4578-01
Client ID: WB-305-SWMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	1.01		0.0030	U	1.0	2	101		10/25/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4578
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4545-02
Client ID: VNJ-215DUP
Percent Solids for Spike Sample: 87

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Sulfide	mg/Kg	+/-20	3.17	J	3.17	J	1	0		10/26/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2024
Client ID: BP-F-21DUP
SDG No.: P4578
Sample ID: P4547-01
Percent Solids for Spike Sample: 88.9

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.089	U	0.088	U	1	0		10/28/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4578
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4561-01
Client ID: BP-F-19DUP
Percent Solids for Spike Sample: 89.3

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		10/29/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4578
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4561-04
Client ID: BP-F-19DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	7.65		7.66		1	0.13		10/25/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4578
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4578-01
Client ID: WB-305-SWDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0030	U	0.0030	U	1	0		10/25/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4578
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4578-01
Client ID: WB-305-SWMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	1.00		1.01		2	1		10/25/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4578
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4598-12
Client ID: TP-8DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.0088	U	0.0088	U	1	0		10/29/2024

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4578
Project:	Amtrak Sawtooth Bridges 2024	**Run No.:**	LB133136

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133136BS								
Hexavalent Chromium	mg/L	0.5	0.52		104	1	90-111	10/25/2024

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4578
Project:	Amtrak Sawtooth Bridges 2024	**Run No.:**	LB133174

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB164406BS								
Hexavalent Chromium	mg/Kg	20	19.9		100	1	84-110	10/28/2024

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133136

Review By	rubina	Review On	10/26/2024 1:30:43 PM
Supervise By	Iwona	Supervise On	10/28/2024 10:29:16 AM
SubDirectory	LB133136	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110441,WP110440,WP110438,WP110437,WP110382,WP110380,WP110439,WP110444,WP110442,WP110443

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/25/24 17:10		rubina	OK
2	CAL2	CAL2	CAL	10/25/24 17:11		rubina	OK
3	CAL3	CAL3	CAL	10/25/24 17:12		rubina	OK
4	CAL4	CAL4	CAL	10/25/24 17:13		rubina	OK
5	CAL5	CAL5	CAL	10/25/24 17:14		rubina	OK
6	CAL6	CAL6	CAL	10/25/24 17:15		rubina	OK
7	CAL7	CAL7	CAL	10/25/24 17:16		rubina	OK
8	ICV	ICV	ICV	10/25/24 17:17		rubina	OK
9	ICB	ICB	ICB	10/25/24 17:18		rubina	OK
10	CCV1	CCV1	CCV	10/25/24 17:19		rubina	OK
11	CCB1	CCB1	CCB	10/25/24 17:20		rubina	OK
12	RL Check	RL Check	SAM	10/25/24 17:21		rubina	OK
13	LB133136BL	LB133136BL	MB	10/25/24 17:22		rubina	OK
14	LB133136BS	LB133136BS	LCS	10/25/24 17:23		rubina	OK
15	P4578-01	WB-305-SW	SAM	10/25/24 17:24		rubina	OK
16	P4578-01DUP	WB-305-SWDUP	DUP	10/25/24 17:25		rubina	OK
17	P4578-01MS	WB-305-SWMS	MS	10/25/24 17:26		rubina	OK
18	P4578-01MSD	WB-305-SWMSD	MSD	10/25/24 17:27		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133136

Review By	rubina	Review On	10/26/2024 1:30:43 PM
Supervise By	Iwona	Supervise On	10/28/2024 10:29:16 AM
SubDirectory	LB133136	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110441,WP110440,WP110438,WP110437,WP110382,WP110380,WP110439,WP110444,WP110442,WP110443

19	P4578-02	WB-305-SW-1	SAM	10/25/24 17:28		rubina	OK
20	CCV2	CCV2	CCV	10/25/24 17:29		rubina	OK
21	CCB2	CCB2	CCB	10/25/24 17:30		rubina	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133138

Review By	jignesh	Review On	10/26/2024 9:50:45 AM
Supervise By	Iwona	Supervise On	10/28/2024 10:09:02 AM
SubDirectory	LB133138	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3107,W3093,W3094,W3071,W3005,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/25/24 17:30		Jignesh	OK
2	CAL2	CAL2	CAL	10/25/24 17:31		Jignesh	OK
3	CAL3	CAL3	CAL	10/25/24 17:33		Jignesh	OK
4	ICV	ICV	ICV	10/25/24 17:35		Jignesh	OK
5	CCV1	CCV1	CCV	10/25/24 17:38		Jignesh	OK
6	P4561-04	BP-F-19	SAM	10/25/24 17:40		Jignesh	OK
7	P4561-04DUP	BP-F-19DUP	DUP	10/25/24 17:41		Jignesh	OK
8	P4561-08	BP-F-18	SAM	10/25/24 17:42		Jignesh	OK
9	P4567-04	WC-1	SAM	10/25/24 17:45		Jignesh	OK
10	P4567-08	WC-2	SAM	10/25/24 17:46		Jignesh	OK
11	P4567-12	WC-3	SAM	10/25/24 17:49		Jignesh	OK
12	P4574-03	GRAVEL-1	SAM	10/25/24 17:50		Jignesh	OK
13	P4574-06	GRAVEL-2	SAM	10/25/24 17:53		Jignesh	OK
14	P4578-06	WB-305-BOT	SAM	10/25/24 18:00		Jignesh	OK
15	P4578-08	WB-305-BOT-1	SAM	10/25/24 18:10		Jignesh	OK
16	CCV2	CCV2	CCV	10/25/24 18:11		Jignesh	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB133148

Review By	rubina	Review On	10/26/2024 2:16:15 PM
Supervise By	Iwona	Supervise On	10/28/2024 10:23:13 AM
SubDirectory	LB133148	Test	Reactive Sulfide

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3105,W3114,W3149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB164425BL	PB164425BL	MB	10/26/24 11:40		rubina	OK
2	P4545-02	VNJ-215	SAM	10/26/24 11:43		rubina	OK
3	P4545-02DUP	VNJ-215DUP	DUP	10/26/24 11:45		rubina	OK
4	P4547-04	BP-F-21	SAM	10/26/24 11:48		rubina	OK
5	P4547-08	BP-F-20	SAM	10/26/24 11:50		rubina	OK
6	P4561-04	BP-F-19	SAM	10/26/24 11:52		rubina	OK
7	P4561-08	BP-F-18	SAM	10/26/24 11:55		rubina	OK
8	P4567-04	WC-1	SAM	10/26/24 11:58		rubina	OK
9	P4567-08	WC-2	SAM	10/26/24 12:00		rubina	OK
10	P4567-12	WC-3	SAM	10/26/24 12:03		rubina	OK
11	P4574-03	GRAVEL-1	SAM	10/26/24 12:05		rubina	OK
12	P4574-06	GRAVEL-2	SAM	10/26/24 12:08		rubina	OK
13	P4578-06	WB-305-BOT	SAM	10/26/24 12:10		rubina	OK
14	P4578-08	WB-305-BOT-1	SAM	10/26/24 12:12		rubina	OK

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB133169

Review By	Iwona	Review On	10/29/2024 2:47:17 PM
Supervise By	jignesh	Supervise On	10/29/2024 2:54:55 PM
SubDirectory	LB133169	Test	Ignitability

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	P4561-01	BP-F-19	SAM	10/29/24 09:15		rubina	OK
2	P4561-01DUP	BP-F-19DUP	DUP	10/29/24 09:23		rubina	OK
3	P4561-04	BP-F-19	SAM	10/29/24 09:30		rubina	OK
4	P4561-05	BP-F-18	SAM	10/29/24 09:38		rubina	OK
5	P4561-08	BP-F-18	SAM	10/29/24 09:45		rubina	OK
6	P4567-01	WC-1	SAM	10/29/24 09:52		rubina	OK
7	P4567-04	WC-1	SAM	10/29/24 10:00		rubina	OK
8	P4567-05	WC-2	SAM	10/29/24 10:08		rubina	OK
9	P4567-08	WC-2	SAM	10/29/24 10:15		rubina	OK
10	P4567-09	WC-3	SAM	10/29/24 10:23		rubina	OK
11	P4567-12	WC-3	SAM	10/29/24 10:30		rubina	OK
12	P4574-01	GRAVEL-1	SAM	10/29/24 10:38		rubina	OK
13	P4574-03	GRAVEL-1	SAM	10/29/24 10:45		rubina	OK
14	P4574-04	GRAVEL-2	SAM	10/29/24 10:52		rubina	OK
15	P4574-06	GRAVEL-2	SAM	10/29/24 11:00		rubina	OK
16	P4578-06	WB-305-BOT	SAM	10/29/24 11:08		rubina	OK
17	P4578-08	WB-305-BOT-1	SAM	10/29/24 11:15		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133174

Review By	rubina	Review On	10/28/2024 4:58:09 PM
Supervise By	Iwona	Supervise On	10/28/2024 4:58:29 PM
SubDirectory	LB133174	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110382,WP110380,WP110381,WP108645

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/28/24 15:45		rubina	OK
2	CAL2	CAL2	CAL	10/28/24 15:46		rubina	OK
3	CAL3	CAL3	CAL	10/28/24 15:47		rubina	OK
4	CAL4	CAL4	CAL	10/28/24 15:48		rubina	OK
5	CAL5	CAL5	CAL	10/28/24 15:49		rubina	OK
6	CAL6	CAL6	CAL	10/28/24 15:50		rubina	OK
7	CAL7	CAL7	CAL	10/28/24 15:51		rubina	OK
8	ICV	ICV	ICV	10/28/24 15:52		rubina	OK
9	ICB	ICB	ICB	10/28/24 15:53		rubina	OK
10	CCV1	CCV1	CCV	10/28/24 15:54		rubina	OK
11	CCB1	CCB1	CCB	10/28/24 15:55		rubina	OK
12	RL Check	RL Check	SAM	10/28/24 15:56		rubina	OK
13	PB164406BL	PB164406BL	MB	10/28/24 15:57		rubina	OK
14	PB164406BS	PB164406BS	LCS	10/28/24 15:58		rubina	OK
15	P4545-01	VNJ-215	SAM	10/28/24 15:59		rubina	OK
16	P4547-01	BP-F-21	SAM	10/28/24 16:00		rubina	OK
17	P4547-01DUP	BP-F-21DUP	DUP	10/28/24 16:01		rubina	OK
18	P4547-01MSPre	BP-F-21MS	MS	10/28/24 16:02		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133174

Review By	rubina	Review On	10/28/2024 4:58:09 PM
Supervise By	Iwona	Supervise On	10/28/2024 4:58:29 PM
SubDirectory	LB133174	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110382,WP110380,WP110381,WP108645

19	P4547-01MS2Ins	BP-F-21MS	MS	10/28/24 16:03		rubina	OK
20	P4547-01MS3Post	BP-F-21MS	MS	10/28/24 16:04		rubina	OK
21	P4547-05	BP-F-20	SAM	10/28/24 16:05		rubina	OK
22	P4561-01	BP-F-19	SAM	10/28/24 16:06		rubina	OK
23	CCV2	CCV2	CCV	10/28/24 16:07		rubina	OK
24	CCB2	CCB2	CCB	10/28/24 16:08		rubina	OK
25	P4561-05	BP-F-18	SAM	10/28/24 16:09		rubina	OK
26	P4567-01	WC-1	SAM	10/28/24 16:10		rubina	OK
27	P4567-05	WC-2	SAM	10/28/24 16:11		rubina	OK
28	P4567-09	WC-3	SAM	10/28/24 16:12		rubina	OK
29	P4574-01	GRAVEL-1	SAM	10/28/24 16:13		rubina	OK
30	P4574-04	GRAVEL-2	SAM	10/28/24 16:14		rubina	OK
31	P4575-01	PL-02-102424	SAM	10/28/24 16:15		rubina	OK
32	P4577-01	TR-05-102524	SAM	10/28/24 16:16		rubina	OK
33	P4578-03	WB-305-TOP	SAM	10/28/24 16:17		rubina	OK
34	P4578-04	WB-305-TOP-1	SAM	10/28/24 16:18		rubina	OK
35	CCV3	CCV3	CCV	10/28/24 16:19		rubina	OK
36	CCB3	CCB3	CCB	10/28/24 16:20		rubina	OK
37	P4578-05	WB-305-BOT	SAM	10/28/24 16:21		rubina	OK
38	P4578-07	WB-305-BOT-1	SAM	10/28/24 16:22		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133174

Review By	rubina	Review On	10/28/2024 4:58:09 PM
Supervise By	lwona	Supervise On	10/28/2024 4:58:29 PM
SubDirectory	LB133174	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110382,WP110380,WP110381,WP108645

39	CCV4	CCV4	CCV	10/28/24 16:23		rubina	OK
40	CCB4	CCB4	CCB	10/28/24 16:24		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133190

Review By	Niha	Review On	10/30/2024 9:24:14 AM
Supervise By	Iwona	Supervise On	10/30/2024 1:27:50 PM
SubDirectory	LB133190	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP110467,WP110468,WP110469,WP110470,WP110471,WP110472,WP110473
ICV Standard	WP110475
CCV Standard	WP110468
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109068,WP110103,WP110474

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/29/24 12:52		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/29/24 12:52		Niha	OK
3	10PPBCN	10PPBCN	CAL3	10/29/24 12:52		Niha	OK
4	50PPBCN	50PPBCN	CAL4	10/29/24 12:52		Niha	OK
5	100PPBCN	100PPBCN	CAL5	10/29/24 12:52		Niha	OK
6	250PPBCN	250PPBCN	CAL6	10/29/24 12:52		Niha	OK
7	500PPBCN	500PPBCN	CAL7	10/29/24 12:52		Niha	OK
8	ICV1	ICV1	ICV	10/29/24 13:26		Niha	OK
9	ICB1	ICB1	ICB	10/29/24 13:26		Niha	OK
10	CCV1	CCV1	CCV	10/29/24 13:26		Niha	OK
11	CCB1	CCB1	CCB	10/29/24 13:26		Niha	OK
12	PB164488BL	PB164488BL	MB	10/29/24 13:26		Niha	OK
13	P4574-03	GRAVEL-1	SAM	10/29/24 13:26		Niha	OK
14	P4574-06	GRAVEL-2	SAM	10/29/24 13:34		Niha	OK
15	P4578-06	WB-305-BOT	SAM	10/29/24 13:34		Niha	OK
16	P4578-08	WB-305-BOT-1	SAM	10/29/24 13:34		Niha	OK
17	P4594-04	TP-4	SAM	10/29/24 13:34		Niha	OK
18	P4594-08	BP-F17	SAM	10/29/24 13:34		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133190

Review By	Niha	Review On	10/30/2024 9:24:14 AM
Supervise By	Iwona	Supervise On	10/30/2024 1:27:50 PM
SubDirectory	LB133190	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP110467,WP110468,WP110469,WP110470,WP110471,WP110472,WP110473
ICV Standard	WP110475
CCV Standard	WP110468
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109068,WP110103,WP110474

19	P4594-12	BP-F16	SAM	10/29/24 13:34		Niha	OK
20	P4594-16	TP-5	SAM	10/29/24 13:34		Niha	OK
21	P4594-20	BP-F15	SAM	10/29/24 13:34		Niha	OK
22	CCV2	CCV2	CCV	10/29/24 13:34		Niha	OK
23	CCB2	CCB2	CCB	10/29/24 13:34		Niha	OK
24	P4595-02	PITKIN-COMP	SAM	10/29/24 13:34		Niha	OK
25	P4597-03	RED-1-1	SAM	10/29/24 13:41		Niha	OK
26	P4597-06	RED-1-2	SAM	10/29/24 13:41		Niha	OK
27	P4597-09	BLUE-2-1	SAM	10/29/24 13:41		Niha	OK
28	P4597-12	BLUE-2-2	SAM	10/29/24 13:41		Niha	OK
29	P4598-04	BP-F12	SAM	10/29/24 13:41		Niha	OK
30	P4598-08	BP-F11	SAM	10/29/24 13:41		Niha	OK
31	P4598-12	TP-8	SAM	10/29/24 13:41		Niha	OK
32	P4598-12DUP	TP-8DUP	DUP	10/29/24 13:41		Niha	OK
33	CCV3	CCV3	CCV	10/29/24 13:45		Niha	OK
34	CCB3	CCB3	CCB	10/29/24 13:45		Niha	OK

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	**WB-305-SW**	**WATER**			**10/25/24 08:20**			**10/25/24**
			Hexavalent Chromium	7196A			10/25/24 17:24	
			trivalent Chromium	6010D			10/29/24 17:15	
P4578-02	**WB-305-SW-1**	**WATER**			**10/25/24 08:30**			**10/25/24**
			Hexavalent Chromium	7196A			10/25/24 17:28	
			trivalent Chromium	6010D			10/29/24 17:20	
P4578-03	**WB-305-TOP**	**SOIL**			**10/25/24 09:20**			**10/25/24**
			Hexavalent Chromium	7196A		10/28/24	10/28/24 16:17	
			Trivalent Chromium	6010D			10/28/24 20:35	
P4578-04	**WB-305-TOP-1**	**SOIL**			**10/25/24 09:30**			**10/25/24**
			Hexavalent Chromium	7196A		10/28/24	10/28/24 16:18	
			Trivalent Chromium	6010D			10/28/24 20:39	
P4578-05	**WB-305-BOT**	**SOIL**			**10/25/24 11:15**			**10/25/24**
			Hexavalent Chromium	7196A		10/28/24	10/28/24 16:21	

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LAB CHRONICLE

			Trivalent Chromium	6010D		10/28/24 20:43	
P4578-06	**WB-305-BOT**	**SOIL**			**10/25/24 11:15**		**10/25/24**
			Corrosivity	9045D		10/25/24 18:00	
			Ignitability	1030		10/29/24 11:08	
			Reactive Cyanide	9012B	10/29/24	10/29/24 13:34	
			Reactive Sulfide	9034	10/26/24	10/26/24 12:10	
P4578-07	**WB-305-BOT-1**	**SOIL**			**10/25/24 11:20**		**10/25/24**
			Hexavalent Chromium	7196A	10/28/24	10/28/24 16:22	
			Trivalent Chromium	6010D		10/28/24 20:47	
P4578-08	**WB-305-BOT-1**	**SOIL**			**10/25/24 11:20**		**10/25/24**
			Corrosivity	9045D		10/25/24 18:10	
			Ignitability	1030		10/29/24 11:15	
			Reactive Cyanide	9012B	10/29/24	10/29/24 13:34	
			Reactive Sulfide	9034	10/26/24	10/26/24 12:12	

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB164406

15

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : RM

Start Digest Date: 10/28/2024 **Time :** 12:20 **Temp :** 90 °C

End Digest Date: 10/28/2024 **Time :** 13:20 **Temp :** 95 °C

11 batch 10/28/2024 14:00 90c
10/28/2024 15:00 95c RM

Digestion tube ID : M5595

Filter paper ID : 400213

pH Meter ID : WC pH meter-1

Block Thermometer ID : WC-Block#1

Prep Technician Signature: RM

Supervisor Signature: JZ

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP108658
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP108658
LCSS	1.0ML	WP108659
PBS003	50.0ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3001
PHOSPHATE BUFFER	0.5ML	WP108008
HEX. DIGESTION SOLN.	50.0ML	WP110092
5M HNO3	5-7ML	WP110381
5N H2SO4	1-3ML	WP110380
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP110450
CAL3	CAL3	0.5ML	WP110450
CAL4	CAL4	1ML	WP110450
CAL5	CAL5	0.2ML	WP108658
CAL6	CAL6	1ML	WP108658
CAL7	CAL7	2.0ML	WP108658
ICV	ICV	1ML	WP108659
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP108658
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

10/28/2024 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB164406

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4545-01	VNJ-215	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4547-01	BP-F-21	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4547-01DUP	BP-F-21DUP	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4547-01MSPre	BP-F-21MSPRE	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4547-01MS2Ins	BP-F-21MS2INS	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4547-01MS3Post	BP-F-21MS3POST	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4547-05	BP-F-20	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4561-01	BP-F-19	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4561-05	BP-F-18	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4567-01	WC-1	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4567-05	WC-2	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4567-09	WC-3	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4574-01	GRAVEL-1	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4574-04	GRAVEL-2	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
P4575-01	PL-02-102424	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4577-01	TR-05-102524	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
P4578-03	WB-305-TOP	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4578-04	WB-305-TOP-1	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4578-05	WB-305-BOT	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4578-07	WB-305-BOT-1	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164406BL	PBS406	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164406BS	LCS406	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A

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Soil/Sludge Reactive Sulfide Preparation Sheet

PB164425

15

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#1

Block ID : MC-1,MC-2

Weigh By : RM

Start Digest Date: 10/26/2024 **Time :** 09:30 **Temp :** N/A

End Digest Date: 10/26/2024 **Time :** 11:00 **Temp :** N/A

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : N/A

Prep Technician Signature: RM

Supervisor Signature:

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP108780
FORMALDEHYDE	2.0ML	W2725
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

10/26/2024 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB164425

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4545-02	VNJ-215	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4545-02DUP	VNJ-215DUP	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4547-04	BP-F-21	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
P4547-08	BP-F-20	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4561-04	BP-F-19	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4561-08	BP-F-18	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
P4567-04	WC-1	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4567-08	WC-2	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
P4567-12	WC-3	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4574-03	GRAVEL-1	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4574-06	GRAVEL-2	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4578-06	WB-305-BOT	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4578-08	WB-305-BOT-1	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164425BL	PBS425	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB164488

15

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 10/29/2024 **Time :** 09:00 **Temp :** N/A

Matrix : SOLID

End Digest Date: 10/29/2024 **Time :** 10:30 **Temp :** N/A

Pippete ID : N/A

Balance ID : WC SC-4

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** N/A

Block ID : MC-1,MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** NF

Weigh By : NF **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP108640
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID		Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10.29.2024, 10:45	NF(WC)	NF(WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB164488

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4574-03	GRAVEL-1	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4574-06	GRAVEL-2	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4578-06	WB-305-BOT	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4578-08	WB-305-BOT-1	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4594-04	TP-4	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4594-08	BP-F17	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4594-12	BP-F16	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4594-16	TP-5	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4594-20	BP-F15	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4595-02	PITKIN-COMP	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4597-03	RED-1-1	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4597-06	RED-1-2	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4597-09	BLUE-2-1	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4597-12	BLUE-2-2	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4598-04	BP-F12	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
P4598-08	BP-F11	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4598-12	TP-8	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4598-12DUP	TP-8DUP	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164488BL	PBS488	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. / QUOTE NO. P4578/79 16
COC Number 2042038 16.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: GANNETT FLEMING
ADDRESS: 1010 Adams Avenue
CITY Audubon STATE: PA ZIP: 19403
ATTENTION: Joe Krupansky
PHONE: 610-391-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's Mop. of SB
PROJECT NO.: 95000005B LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: aaac@bamsys.com
PHONE: 610-391-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: chemtech PO#:
ADDRESS: 284 sheffield St.
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha PHONE 908-788-398

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT BEM EDD

ANALYSIS

1 TCL VOC +10 | 2 TCL PAH | 3 PCB's | 4 Cr(III), Cr(VI) | 5 TAL Metals | 6 EPH | 7 TCLP - Full | 8 RCRA Parameters | 9 TOX

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A			F	B					← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	WB-305-SW	GW	X		10/25	8:20	7	X	X	X	X	X	X				
2.	WB-305-SW-1	GW	X		10/25	8:30	7	X	X	X	X	X	X				
3.	WB-305-TOP	S	X		10/25	9:20	11	X	X	X	X	X	X				
4.	WB-305-TOP-1	S	X		10/25	9:30	11	X	X	X	X	X	X				
5.	WB-305-Bot	S	X		10/25	11:15	11	X	X	X	X	X	X	X	X	X	
6.	WB-305-Bot-1	S	X		10/25	11:20	11	X	X	X	X	X	X	X	X	X	
7.	FB-10252024	D.I.W.			10/25		2	X									
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Vananda Pujara	10/25/24-3:11	1.
2.		2.
3.	DATE/TIME: 1604 10.25.2024	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.1 °C
Comments: _____

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4578 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 10/25/2024 3:58:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 10/25/2024 4:04:00 PM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4578-01	WB-305-SW	Water	10/25/2024	08:20					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
P4578-02	WB-305-SW-1	Water	10/25/2024	08:30					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
P4578-03	WB-305-TOP	Solid	10/25/2024	09:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4578-04	WB-305-TOP-1	Solid	10/25/2024	09:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4578-05	WB-305-BOT	Solid	10/25/2024	11:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4578-07	WB-305-BOT-1	Solid	10/25/2024	11:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4578-09	TB-10252024	Water	10/25/2024	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

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Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	P4578 PORT06	**Order Date :**	10/25/2024 3:58:00 PM	**Project Mgr :**	
Client Name :	Portal Partners Tri-Venture	**Project Name :**	Amtrak Sawtooth Bridges 2	**Report Type :**	NJ Reduced
Client Contact :	Joseph Krupansky	**Receive DateTime :**	10/25/2024 4:04:00 PM	**EDD Type :**	EXCEL NJCLEANUP
Invoice Name :	Portal Partners Tri-Venture	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Joseph Krupansky			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

* J.C samples are in SM Refrigerator *

Relinguished By : J. C
Date / Time : 10-25-2024 1710

Received By : Sam 10/25/2024 1710
Date / Time : Sam.

RJ 6
+2 2
R&H 5

Storage Area : VOA Refridgerator Room