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 : P4397

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 : Kearny

Project Number : 9500000878

Laboratory Sample ID(s) : P4397

Sampling Date(s) : 10/10/2024,10/11/2024

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 : P4397

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
P4397-01	WB-301-TOP
P4397-02	WB-301-BOT
P4397-04	WB-301-SW
P4397-05	TB-10102024
P4397-06	WB-301-BOT

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

Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:52:53 PM

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 # P4397
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, 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.
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.

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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.
Trip Blank was not provided with this set of samples.
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
Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:53:04 PM

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4397
Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, 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.
Trip Blank was not provided with this set of samples.

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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.

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Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:53:13 PM

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4397
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, 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_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.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {P4397-02MS} with File ID: BF139977.D recoveries met the requirements for all compounds except for 3-Nitroaniline[59%], 4-Chloroaniline[25%], Benzo(g,h,i)perylene[59%], bis(2-Ethylhexyl)phthalate[136%], Di-n-octyl phthalate[141%] and Indeno(1,2,3-cd)pyrene[68%] these compounds did not meet the NJDKQP criteria but met the in-house criteria and Atrazine[132%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {P4397-02MSD} with File ID: BF139978.D recoveries met the acceptable requirements except for 3-Nitroaniline[59%], 4-Chloroaniline[27%], Benzo(g,h,i)perylene[59%], bis(2-Ethylhexyl)phthalate[136%], Di-n-octyl phthalate[136%] these compounds did not meet the NJDKQP criteria but met the

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in-house criteria and Atrazine[132%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The RPD met criteria .

The Blank Spike for {PB164123BS} with File ID: BF139959.D met requirements for all samples except for 3-Nitroaniline[65%], 4-Chloroaniline[51%] these compounds did not meet the NJDKQP criteria but met the in-house criteria and Hexachlorocyclopentadiene[179%] , 4,6-Dinitro-2-methylphenol[135%] these compounds did not meet the NJDKQP criteria and in-house criteria but no positive hits in associated samples therefore no corrective action taken.

The Blank Spike for {PB164154BS} with File ID: BF139960.D met requirements for all samples except for 3-Nitroaniline[62%], 4-Chloroaniline[43%] these compounds did not meet the NJDKQP criteria but met the in-house criteria and Hexachlorocyclopentadiene[180%] , 4,6-Dinitro-2-methylphenol[140%] these compounds did not meet the NJDKQP criteria and in-house criteria but no positive hits in associated sample therefore no corrective action taken.

The Blank Spike Duplicate for {PB164154BSD} with File ID: BF139961.D met requirements for all samples except for 3,3-Dichlorobenzidine[68%], 3-Nitroaniline[61%], 4-Chloroaniline[40%] these compounds did not meet the NJDKQP criteria but met the in-house criteria and Hexachlorocyclopentadiene[170%] , 4,6-Dinitro-2-methylphenol[141%] these compounds did not meet the NJDKQP criteria and in-house criteria but no positive hits in associated 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 (8270-BF101824.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The Continuous Calibration File ID BF139927.D met the requirements except for 2,4-Dinitrophenol,4,6-Dinitro-2-methylphenol and Di-n-octyl phthalate but no positive hits in associated samples therefore no corrective action taken.

The Continuous Calibration File ID BF139952.D met the requirements except for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol but no positive hits in associated samples therefore no corrective action taken.

The Continuous Calibration File ID BF139965.D met the requirements except for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol but no positive hits in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.

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E. Additional Comments:
For sample # WB-301-BOT some compounds below Method detection limits, therefore it is not reported as Hit in Form-1.

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 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 <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

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Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:53:24 PM

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4397
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, 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 except for WB-301-BOT, extracted out of hold, as sample active out of holding time.

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.

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Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:53:32 PM

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4397
Test Name: TCLP Pesticide

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, 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.

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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Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:53:40 PM

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4397
Test Name: PCB

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, 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 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 .
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.

Signature N. N. Pandya

APPROVED
Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:53:49 PM

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4397
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, 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-301-BOT [2,4-DCAA(1) - 27%, 2,4-DCAA(2) - 22%], WB-301-BOTMS [2,4-DCAA(1) - 28%, 2,4-DCAA(2) - 23%], WB-301-BOTMSD [2,4-DCAA(1) - 28%, 2 and4-DCAA(2) - 22%], these compounds did not meet the NJDKQP criteria and in-house criteria and surrogate failure confirms with MS-MSD while,

PB164261TB[2,4-DCAA(2) - 57%],this compound did not meet the NJDKQP criteria but met the in-house criteria.

The Retention Times were acceptable for all samples.

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The MS {P4397-06MS} with File ID: PS028042.D recoveries met the requirements for all compounds except for 2,4,5-TP(Silvex)[212%]this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {P4397-06MSD} with File ID: PS028043.D recoveries met the acceptable requirements except for 2,4,5-TP(Silvex)[226%]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
Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:53:59 PM

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4397
Test Name: EPH

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, 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 of EPHs was based on method NJEPH and extraction was done based on method 3541.

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.

Signature N. N. Pandya

APPROVED
Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:54:09 PM

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4397
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, 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-301-TOP was diluted due to high concentrations for Chromium,Mercury & Sample WB-301-SW was diluted due to high concentrations for Sodium.
The Blank Spike met requirements for all samples.
The Duplicate (NB-08-101424DUP) analysis met criteria for all samples except for Beryllium due to matrix interference..
The Duplicate (WB-301-SWMSD) analysis met criteria for all samples except for Copper, Potassium, Zinc due to matrix interference.
The Matrix Spike (NB-08-101424MS) analysis met criteria for all samples except for Beryllium, Chromium, Copper, Potassium, Selenium, Silver, Sodium, Vanadium due to matrix interference.
The Matrix Spike (WB-301-SWMS) analysis met criteria for all samples except for Antimony, Iron, Silver, Zinc due to matrix interference.
The Matrix Spike Duplicate (NB-08-101424MSD) analysis met criteria for all samples except for Beryllium and Selenium due to matrix interference.

The Matrix Spike Duplicate (WB-301-SWMSD) analysis met criteria for all samples except for Copper, Iron, Silver, Zinc due to matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution (NB-08-101424L) met criteria for all samples except for Aluminum, Calcium, Chromium, Copper, Iron, Magnesium, Manganese, Sodium, Zinc due to unknown interference.

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
Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:54:18 PM

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4397
Test Name: TCLP Mercury,TCLP ICP Metals

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, 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
Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:54:25 PM

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4397
Test Name: Hexavalent Chromium,Corrosivity,Trivalent Chromium,Ignitability,Reactive Cyanide,Reactive Sulfide

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, 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-301-BOT of Corrosivity as sample was receive out of holding time.
The Blank Spike met requirements for all samples.
The Duplicate (WB-301-BOTDUP) analysis met criteria for all samples except for Reactive Cyanide due to the Results are Below Reporting Limit..
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
Nimisha Pandya QA/QC Supervisor Pandya , 11/6/2024, 1:54:32 PM

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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 #: P4397

	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:** 11/06/2024

Alliance TECHNICAL GROUP
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Hit Summary Sheet
SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**WB-301-TOP**								
P4397-01	WB-301-TOP	SOIL	Acetone		120		7.90	31.6	ug/Kg
P4397-01	WB-301-TOP	SOIL	Carbon Disulfide		5.50	J	1.60	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	2-Butanone		36.3		7.20	31.6	ug/Kg
P4397-01	WB-301-TOP	SOIL	Methylcyclohexane		3.70	J	1.10	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	Ethyl Benzene		3.70	J	0.78	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	m/p-Xylenes		3.10	J	1.70	12.7	ug/Kg
P4397-01	WB-301-TOP	SOIL	o-Xylene		8.50		0.89	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	Isopropylbenzene		17.6		0.85	6.30	ug/Kg
			Total Voc :		198				
P4397-01	WB-301-TOP	SOIL	Benzene, 1,2,3,5-tetramethyl-	*	140	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	1H-Indene, 1-methyl-	*	83.6	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1-ethyl-2,3-dimethyl-	*	70.2	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 4-ethyl-1,2-dimethyl-	*	100	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	2-Methylindene	*	74.2	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1,1-(1,5-hexadiene-1,	*	130	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, (3-methyl-2-butenyl)-	*	130	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1-ethenyl-3-ethyl-	*	130	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	n-propylbenzene	*	3.40	J	0.81	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	1,3,5-Trimethylbenzene	*	10.5	J	0.81	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	1,2,4-Trimethylbenzene	*	33.0	J	1.70	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	sec-Butylbenzene	*	1.40	J	0.85	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	p-Isopropyltoluene	*	11.7	J	0.73	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	Diisopropyl ether	*	1.60	J	0.72	6.30	ug/Kg
			Total Tics :		920				
			Total Concentration:		1120				
Client ID:	**WB-301-BOT**								
P4397-02	WB-301-BOT	SOIL	Acetone		9.00	J	5.40	21.6	ug/Kg
P4397-02	WB-301-BOT	SOIL	Carbon Disulfide		2.10	J	1.10	4.30	ug/Kg
P4397-02	WB-301-BOT	SOIL	Methylene Chloride		6.10	J	2.90	8.60	ug/Kg
			Total Voc :		17.2				
P4397-02	WB-301-BOT	SOIL	Diisopropyl ether	*	1.30	J	0.49	4.30	ug/Kg
			Total Tics :		1.30				
			Total Concentration:		18.5				
Client ID:	**WB-301-SW**								
P4397-04	WB-301-SW	Water	Acetone		4.30	J	1.40	5.00	ug/L
P4397-04	WB-301-SW	Water	Methyl Acetate		0.74	J	0.60	1.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Voc :	5.04				
			Total Concentration:	5.04				
Client ID:	**TB-10102024**							
P4397-05	TB-10102024	Water	Acetone	1.90	J	1.40	5.00	ug/L
			Total Voc :	1.90				
			Total Concentration:	1.90				

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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	63.3
Sample Wt/Vol:	6.24 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
VY019890.D	1		10/14/24 14:31	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.10	U	2.10	6.30	ug/Kg
74-87-3	Chloromethane	1.50	U	1.50	6.30	ug/Kg
75-01-4	Vinyl Chloride	0.97	U	0.97	6.30	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.30	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	6.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	6.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.99	U	0.99	6.30	ug/Kg
67-64-1	Acetone	120		7.90	31.6	ug/Kg
75-15-0	Carbon Disulfide	5.50	J	1.60	6.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.85	U	0.85	6.30	ug/Kg
79-20-9	Methyl Acetate	2.30	U	2.30	6.30	ug/Kg
75-09-2	Methylene Chloride	4.30	U	4.30	12.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	6.30	ug/Kg
110-82-7	Cyclohexane	0.87	U	0.87	6.30	ug/Kg
78-93-3	2-Butanone	36.3		7.20	31.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	6.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.77	U	0.77	6.30	ug/Kg
74-97-5	Bromochloromethane	3.10	U	3.10	6.30	ug/Kg
67-66-3	Chloroform	0.85	U	0.85	6.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	6.30	ug/Kg
108-87-2	Methylcyclohexane	3.70	J	1.10	6.30	ug/Kg
71-43-2	Benzene	0.91	U	0.91	6.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.77	U	0.77	6.30	ug/Kg
79-01-6	Trichloroethene	0.95	U	0.95	6.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	6.30	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	6.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.50	U	5.50	31.6	ug/Kg
108-88-3	Toluene	0.85	U	0.85	6.30	ug/Kg

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	63.3
Sample Wt/Vol:	6.24 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
VY019890.D	1		10/14/24 14:31	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.76	U	0.76	6.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.72	U	0.72	6.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.30	ug/Kg
591-78-6	2-Hexanone	6.10	U	6.10	31.6	ug/Kg
124-48-1	Dibromochloromethane	0.82	U	0.82	6.30	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	6.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	6.30	ug/Kg
108-90-7	Chlorobenzene	0.94	U	0.94	6.30	ug/Kg
100-41-4	Ethyl Benzene	3.70	J	0.78	6.30	ug/Kg
179601-23-1	m/p-Xylenes	3.10	J	1.70	12.7	ug/Kg
95-47-6	o-Xylene	8.50		0.89	6.30	ug/Kg
100-42-5	Styrene	0.76	U	0.76	6.30	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	6.30	ug/Kg
98-82-8	Isopropylbenzene	17.6		0.85	6.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	6.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.94	U	0.94	6.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.00	U	1.00	6.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.75	U	0.75	6.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	6.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	6.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.99	U	0.99	6.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	63.1		70 (50) - 130 (163)	126%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (54) - 130 (147)	104%	SPK: 50
2037-26-5	Toluene-d8	50.7		70 (58) - 130 (134)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		70 (29) - 130 (146)	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	258000	7.713			
540-36-3	1,4-Difluorobenzene	523000	8.616			
3114-55-4	Chlorobenzene-d5	477000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	164000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	63.3
Sample Wt/Vol:	6.24 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
VY019890.D	1		10/14/24 14:31	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-20-3	Diisopropyl ether	1.60	J		6.03	ug/Kg
103-65-1	n-propylbenzene	3.40	J		12.6	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	10.5	J		12.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	33.0	J		13.0	ug/Kg
135-98-8	sec-Butylbenzene	1.40	J		13.2	ug/Kg
99-87-6	p-Isopropyltoluene	11.7	J		13.3	ug/Kg
004439-45-6	Benzene, 1,1-(1,5-hexadiene-1,6-d	130	J		13.5	ug/Kg
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	70.2	J		13.6	ug/Kg
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	100	J		13.9	ug/Kg
007525-62-4	Benzene, 1-ethenyl-3-ethyl-	130	J		14.0	ug/Kg
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	140	J		14.6	ug/Kg
002177-47-1	2-Methylindene	74.2	J		14.7	ug/Kg
000767-59-9	1H-Indene, 1-methyl-	83.6	J		14.7	ug/Kg
004489-84-3	Benzene, (3-methyl-2-butenyl)-	130	J		14.9	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	76
Sample Wt/Vol:	7.63 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
VY019889.D	1		10/14/24 14:08	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.30	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.66	U	0.66	4.30	ug/Kg
74-83-9	Bromomethane	0.89	U	0.89	4.30	ug/Kg
75-00-3	Chloroethane	0.87	U	0.87	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	0.78	U	0.78	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.92	U	0.92	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.67	U	0.67	4.30	ug/Kg
67-64-1	Acetone	9.00	J	5.40	21.6	ug/Kg
75-15-0	Carbon Disulfide	2.10	J	1.10	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	4.30	ug/Kg
75-09-2	Methylene Chloride	6.10	J	2.90	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.72	U	0.72	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.54	U	0.54	4.30	ug/Kg
110-82-7	Cyclohexane	0.59	U	0.59	4.30	ug/Kg
78-93-3	2-Butanone	4.90	U	4.90	21.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.75	U	0.75	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.53	U	0.53	4.30	ug/Kg
74-97-5	Bromochloromethane	2.10	U	2.10	4.30	ug/Kg
67-66-3	Chloroform	0.58	U	0.58	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.67	U	0.67	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.30	ug/Kg
71-43-2	Benzene	0.62	U	0.62	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.53	U	0.53	4.30	ug/Kg
79-01-6	Trichloroethene	0.65	U	0.65	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.57	U	0.57	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.48	U	0.48	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	21.6	ug/Kg
108-88-3	Toluene	0.58	U	0.58	4.30	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	76
Sample Wt/Vol:	7.63 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
VY019889.D	1		10/14/24 14:08	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	4.30	ug/Kg
591-78-6	2-Hexanone	4.10	U	4.10	21.6	ug/Kg
124-48-1	Dibromochloromethane	0.56	U	0.56	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.68	U	0.68	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.77	U	0.77	4.30	ug/Kg
108-90-7	Chlorobenzene	0.64	U	0.64	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	8.60	ug/Kg
95-47-6	o-Xylene	0.60	U	0.60	4.30	ug/Kg
100-42-5	Styrene	0.52	U	0.52	4.30	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.64	U	0.64	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.69	U	0.69	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.51	U	0.51	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.68	U	0.68	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.67	U	0.67	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.1		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.2		70 (29) - 130 (146)	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	252000	7.713			
540-36-3	1,4-Difluorobenzene	524000	8.616			
3114-55-4	Chlorobenzene-d5	472000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	175000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	76
Sample Wt/Vol:	7.63 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
VY019889.D	1		10/14/24 14:08	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-20-3	Diisopropyl ether	1.30	J		6.01	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	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
VX043400.D	1		10/15/24 13:09	VX101524

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	4.30	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	0.74	J	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	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
VX043400.D	1		10/15/24 13:09	VX101524

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	50.3		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	80900	5.55			
540-36-3	1,4-Difluorobenzene	148000	6.763			
3114-55-4	Chlorobenzene-d5	126000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	50400	12.024			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	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
VX043400.D	1		10/15/24 13:09	VX101524

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
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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
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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/11/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	TB-10102024	SDG No.:	P4397
Lab Sample ID:	P4397-05	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
VX043399.D	1		10/15/24 12:46	VX101524

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	1.90	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

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:	10/11/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	TB-10102024	SDG No.:	P4397
Lab Sample ID:	P4397-05	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
VX043399.D	1		10/15/24 12:46	VX101524

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	50.5		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	87700	5.55			
540-36-3	1,4-Difluorobenzene	161000	6.757			
3114-55-4	Chlorobenzene-d5	135000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	57800	12.024			

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/11/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	TB-10102024	SDG No.:	P4397
Lab Sample ID:	P4397-05	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
VX043399.D	1		10/15/24 12:46	VX101524

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,
Fax : 908 789 8922

Surrogate Summary

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4397-01	WB-301-TOP	1,2-Dichloroethane-d4	50	63.1	126	70 (50)	130 (163)
		Dibromofluoromethane	50	51.8	104	70 (54)	130 (147)
		Toluene-d8	50	50.7	101	70 (58)	130 (134)
		4-Bromofluorobenzene	50	43.9	88	70 (29)	130 (146)
P4397-02	WB-301-BOT	1,2-Dichloroethane-d4	50	57.1	114	70 (50)	130 (163)
		Dibromofluoromethane	50	49.7	99	70 (54)	130 (147)
		Toluene-d8	50	50.2	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.1	88	70 (29)	130 (146)
VY1014SBL01	VY1014SBL01	1,2-Dichloroethane-d4	50	52.0	104	70 (50)	130 (163)
		Dibromofluoromethane	50	48.9	98	70 (54)	130 (147)
		Toluene-d8	50	50.2	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	40.3	81	70 (29)	130 (146)
VY1014SBS01	VY1014SBS01	1,2-Dichloroethane-d4	50	55.1	110	70 (50)	130 (163)
		Dibromofluoromethane	50	55.0	110	70 (54)	130 (147)
		Toluene-d8	50	52.7	105	70 (58)	130 (134)
		4-Bromofluorobenzene	50	53.3	107	70 (29)	130 (146)
VY1014SBSD01	VY1014SBSD01	1,2-Dichloroethane-d4	50	54.7	109	70 (50)	130 (163)
		Dibromofluoromethane	50	54.2	108	70 (54)	130 (147)
		Toluene-d8	50	52.3	105	70 (58)	130 (134)
		4-Bromofluorobenzene	50	51.5	103	70 (29)	130 (146)

( ) = LABORATORY INHOUSE LIMIT

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

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4397-04	WB-301-SW	1,2-Dichloroethane-d4	50	50.3	101	70 (74)	130 (125)
		Dibromofluoromethane	50	47.8	96	70 (75)	130 (124)
		Toluene-d8	50	49.7	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.4	95	70 (77)	130 (121)
P4397-05	TB-10102024	1,2-Dichloroethane-d4	50	50.5	101	70 (74)	130 (125)
		Dibromofluoromethane	50	47.3	95	70 (75)	130 (124)
		Toluene-d8	50	48.9	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.5	95	70 (77)	130 (121)
VX1015WBL01	VX1015WBL01	1,2-Dichloroethane-d4	50	50.4	101	70 (74)	130 (125)
		Dibromofluoromethane	50	47.6	95	70 (75)	130 (124)
		Toluene-d8	50	49.6	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.6	97	70 (77)	130 (121)
VX1015WBS01	VX1015WBS01	1,2-Dichloroethane-d4	50	54.2	108	70 (74)	130 (125)
		Dibromofluoromethane	50	52.3	105	70 (75)	130 (124)
		Toluene-d8	50	50.0	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.2	102	70 (77)	130 (121)
VX1015WBSD0	VX1015WBSD01	1,2-Dichloroethane-d4	50	53.6	107	70 (74)	130 (125)
		Dibromofluoromethane	50	52.6	105	70 (75)	130 (124)
		Toluene-d8	50	50.4	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.5	105	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.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043392.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1015WBS01	Dichlorodifluoromethane	20	20.3	ug/L	102			40 (69)	160 (116)	
	Chloromethane	20	20.5	ug/L	103			40 (65)	160 (116)	
	Vinyl chloride	20	21.1	ug/L	106			70 (65)	130 (117)	
	Bromomethane	20	21.6	ug/L	108			40 (58)	160 (125)	
	Chloroethane	20	24.7	ug/L	124			40 (56)	160 (128)	
	Trichlorofluoromethane	20	22.5	ug/L	113			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	21.4	ug/L	107			70 (80)	130 (112)	
	1,1-Dichloroethene	20	20.3	ug/L	102			70 (74)	130 (110)	
	Acetone	100	120	ug/L	120			40 (60)	160 (125)	
	Carbon disulfide	20	17.6	ug/L	88			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	21.9	ug/L	110			70 (78)	130 (114)	
	Methyl Acetate	20	20.0	ug/L	100			70 (67)	130 (125)	
	Methylene Chloride	20	20.3	ug/L	102			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	20.9	ug/L	104			70 (75)	130 (108)	
	1,1-Dichloroethane	20	21.9	ug/L	110			70 (78)	130 (112)	
	Cyclohexane	20	21.6	ug/L	108			70 (75)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.7	ug/L	104			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	21.3	ug/L	106			70 (77)	130 (110)	
	Bromochloromethane	20	19.6	ug/L	98			70 (70)	130 (124)	
	Chloroform	20	21.9	ug/L	110			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	21.8	ug/L	109			70 (80)	130 (108)	
	Methylcyclohexane	20	20.8	ug/L	104			70 (72)	130 (115)	
	Benzene	20	21.1	ug/L	106			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.8	ug/L	109			70 (80)	130 (115)	
	Trichloroethene	20	20.4	ug/L	102			70 (77)	130 (113)	
	1,2-Dichloropropane	20	21.5	ug/L	108			70 (83)	130 (111)	
	Bromodichloromethane	20	20.1	ug/L	101			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	100	ug/L	100			40 (74)	160 (118)	
	Toluene	20	20.8	ug/L	104			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	20.8	ug/L	104			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.7	ug/L	104			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	21.2	ug/L	106			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	20.0	ug/L	100			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.0	ug/L	105			70 (81)	130 (110)	
	Tetrachloroethene	20	21.7	ug/L	109			70 (67)	130 (123)	
	Chlorobenzene	20	21.0	ug/L	105			70 (82)	130 (109)	
	Ethyl Benzene	20	21.4	ug/L	107			70 (83)	130 (109)	
	m/p-Xylenes	40	41.6	ug/L	104			70 (82)	130 (110)	
	o-Xylene	20	21.3	ug/L	106			70 (83)	130 (109)	
	Styrene	20	21.2	ug/L	106			70 (80)	130 (111)	
	Bromoform	20	19.1	ug/L	96			70 (79)	130 (109)	
	Isopropylbenzene	20	21.8	ug/L	109			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	21.7	ug/L	109			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	21.2	ug/L	106			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	20.7	ug/L	104			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	21.2	ug/L	106			70 (82)	130 (109)	

( ) = 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.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043392.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1015WBS01	1,2-Dibromo-3-Chloropropane	20	19.8	ug/L	99			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	20.2	ug/L	101			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	21.2	ug/L	106			70 (76)	130 (114)	

( ) = 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.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043393.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1015WBSD01	Dichlorodifluoromethane	20	20.2	ug/L	101	1		40 (69)	160 (116)	20 (20)
	Chloromethane	20	19.6	ug/L	98	5		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	20.5	ug/L	103	3		70 (65)	130 (117)	20 (20)
	Bromomethane	20	20.9	ug/L	104	4		40 (58)	160 (125)	20 (20)
	Chloroethane	20	21.2	ug/L	106	16		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	20.9	ug/L	104	8		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/L	106	1		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.8	ug/L	99	3		70 (74)	130 (110)	20 (20)
	Acetone	100	110	ug/L	110	9		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.3	ug/L	86	2		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	22.1	ug/L	111	1		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	20.4	ug/L	102	2		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.1	ug/L	101	1		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	21.0	ug/L	105	1		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	21.6	ug/L	108	2		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	21.1	ug/L	106	2		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	0		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	20.9	ug/L	104	0		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	21.5	ug/L	108	2		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	19.2	ug/L	96	2		70 (70)	130 (124)	20 (20)
	Chloroform	20	21.6	ug/L	108	2		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	21.4	ug/L	107	2		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	21.9	ug/L	110	6		70 (72)	130 (115)	20 (20)
	Benzene	20	21.2	ug/L	106	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	22.2	ug/L	111	2		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	21.1	ug/L	106	4		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	21.7	ug/L	109	1		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.6	ug/L	103	2		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		40 (74)	160 (118)	20 (20)
	Toluene	20	21.6	ug/L	108	4		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	21.7	ug/L	109	5		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	21.1	ug/L	106	2		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	22.1	ug/L	111	5		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	0		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	20.3	ug/L	102	2		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	21.4	ug/L	107	2		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	22.4	ug/L	112	3		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	21.2	ug/L	106	1		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	21.5	ug/L	108	1		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	42.6	ug/L	106	2		70 (82)	130 (110)	20 (20)
	o-Xylene	20	21.2	ug/L	106	0		70 (83)	130 (109)	20 (20)
	Styrene	20	21.2	ug/L	106	0		70 (80)	130 (111)	20 (20)
	Bromoform	20	19.4	ug/L	97	1		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	21.3	ug/L	106	3		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	21.9	ug/L	110	1		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	21.3	ug/L	106	0		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	20.5	ug/L	103	1		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.9	ug/L	104	2		70 (82)	130 (109)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043393.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1015WBSD01	1,2-Dibromo-3-Chloropropane	20	19.9	ug/L	100	1		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	21.2	ug/L	106	5		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	21.1	ug/L	106	0		70 (76)	130 (114)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY019884.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1014SBS01	Dichlorodifluoromethane	20	18.0	ug/Kg	90			40 (64)	160 (136)	
	Chloromethane	20	19.8	ug/Kg	99			40 (70)	160 (130)	
	Vinyl chloride	20	19.1	ug/Kg	96			70 (72)	130 (129)	
	Bromomethane	20	19.6	ug/Kg	98			40 (58)	160 (141)	
	Chloroethane	20	19.1	ug/Kg	96			40 (69)	160 (130)	
	Trichlorofluoromethane	20	18.9	ug/Kg	95			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/Kg	99			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.0	ug/Kg	90			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	15.6	ug/Kg	78			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	20.3	ug/Kg	102			70 (77)	130 (129)	
	Methyl Acetate	20	22.5	ug/Kg	113			70 (69)	130 (149)	
	Methylene Chloride	20	21.5	ug/Kg	108			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	18.7	ug/Kg	94			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.7	ug/Kg	104			70 (82)	130 (123)	
	Cyclohexane	20	18.0	ug/Kg	90			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.4	ug/Kg	97			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	Bromochloromethane	20	22.5	ug/Kg	113			70 (80)	130 (127)	
	Chloroform	20	21.0	ug/Kg	105			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.7	ug/Kg	99			70 (80)	130 (126)	
	Methylcyclohexane	20	17.5	ug/Kg	88			70 (77)	130 (123)	
	Benzene	20	19.7	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.8	ug/Kg	104			70 (81)	130 (126)	
	Trichloroethene	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.5	ug/Kg	103			70 (83)	130 (122)	
	Bromodichloromethane	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			40 (70)	160 (135)	
	Toluene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.6	ug/Kg	98			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.4	ug/Kg	102			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	20.0	ug/Kg	100			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.2	ug/Kg	96			70 (80)	130 (125)	
	Tetrachloroethene	20	17.8	ug/Kg	89			70 (83)	130 (125)	
	Chlorobenzene	20	19.6	ug/Kg	98			70 (84)	130 (122)	
	Ethyl Benzene	20	19.4	ug/Kg	97			70 (82)	130 (124)	
	m/p-Xylenes	40	38.2	ug/Kg	96			70 (83)	130 (124)	
	o-Xylene	20	19.4	ug/Kg	97			70 (83)	130 (123)	
	Styrene	20	19.9	ug/Kg	100			70 (82)	130 (124)	
	Bromoform	20	20.0	ug/Kg	100			70 (75)	130 (127)	
	Isopropylbenzene	20	19.0	ug/Kg	95			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	21.3	ug/Kg	106			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.4	ug/Kg	97			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.5	ug/Kg	98			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.9	ug/Kg	100			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY019884.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1014SBS01	1,2-Dibromo-3-Chloropropane	20	19.7	ug/Kg	99			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.4	ug/Kg	92			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.1	ug/Kg	91			70 (70)	130 (137)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY019885.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1014SBSD01	Dichlorodifluoromethane	20	18.5	ug/Kg	93	3		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.0	ug/Kg	95	4		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	18.4	ug/Kg	92	4		70 (72)	130 (129)	30 (20)
	Bromomethane	20	19.6	ug/Kg	98	0		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.2	ug/Kg	96	0		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	18.9	ug/Kg	95	0		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.0	ug/Kg	95	4		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	18.3	ug/Kg	92	2		70 (79)	130 (121)	30 (20)
	Acetone	100	98.7	ug/Kg	99	11		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	15.5	ug/Kg	78	0		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	20.6	ug/Kg	103	1		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	24.1	ug/Kg	121	7		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	21.8	ug/Kg	109	1		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	18.8	ug/Kg	94	0		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	20.7	ug/Kg	104	0		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	17.6	ug/Kg	88	2		70 (76)	130 (122)	30 (20)
	2-Butanone	100	110	ug/Kg	110	0		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	19.3	ug/Kg	97	0		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.1	ug/Kg	101	2		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	22.3	ug/Kg	112	1		70 (80)	130 (127)	30 (20)
	Chloroform	20	20.7	ug/Kg	104	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	19.8	ug/Kg	99	0		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	17.0	ug/Kg	85	3		70 (77)	130 (123)	30 (20)
	Benzene	20	19.8	ug/Kg	99	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	21.0	ug/Kg	105	1		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	18.9	ug/Kg	95	1		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.8	ug/Kg	104	1		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.7	ug/Kg	104	1		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	0		40 (70)	160 (135)	30 (20)
	Toluene	20	19.6	ug/Kg	98	2		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.8	ug/Kg	99	1		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.6	ug/Kg	98	0		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.6	ug/Kg	103	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	100	ug/Kg	100	10		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.1	ug/Kg	101	1		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.5	ug/Kg	103	7		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	18.6	ug/Kg	93	4		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	19.9	ug/Kg	100	2		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.3	ug/Kg	97	0		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	38.4	ug/Kg	96	0		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.6	ug/Kg	98	1		70 (83)	130 (123)	30 (20)
	Styrene	20	20.1	ug/Kg	101	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.1	ug/Kg	101	1		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.2	ug/Kg	96	1		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	21.2	ug/Kg	106	0		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.4	ug/Kg	97	0		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	19.2	ug/Kg	96	2		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	19.7	ug/Kg	99	1		70 (83)	130 (124)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY019885.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1014SBSD01	1,2-Dibromo-3-Chloropropane	20	20.5	ug/Kg	103	4		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.0	ug/Kg	95	3		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95	4		70 (70)	130 (137)	30 (20)

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1015WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VX043391.D Lab Sample ID: VX1015WBL01

Date Analyzed: 10/15/2024 Time Analyzed: 09:31

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
VX1015WBS01	VX1015WBS01	VX043392.D	10/15/2024
VX1015WBSD01	VX1015WBSD01	VX043393.D	10/15/2024
TB-10102024	P4397-05	VX043399.D	10/15/2024
WB-301-SW	P4397-04	VX043400.D	10/15/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1014SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VY019883.D Lab Sample ID: VY1014SBL01

Date Analyzed: 10/14/2024 Time Analyzed: 10:31

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
VY1014SBS01	VY1014SBS01	VY019884.D	10/14/2024
VY1014SBSD01	VY1014SBSD01	VY019885.D	10/14/2024
WB-301-BOT	P4397-02	VY019889.D	10/14/2024
WB-301-TOP	P4397-01	VY019890.D	10/14/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VX043204.D BFB Injection Date: 10/01/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:42

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	20.9
75	30.0 - 60.0% of mass 95	55.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	71.5
175	5.0 - 9.0% of mass 174	5.7 (7.9) 1
176	95.0 - 101.0% of mass 174	68.6 (95.9) 1
177	5.0 - 9.0% of mass 176	4.7 (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
VSTDICC001	VSTDICC001	VX043207.D	10/01/2024	11:36
VSTDICC005	VSTDICC005	VX043208.D	10/01/2024	11:59
VSTDICC020	VSTDICC020	VX043209.D	10/01/2024	12:22
VSTDICCC050	VSTDICCC050	VX043210.D	10/01/2024	12:45
VSTDICC100	VSTDICC100	VX043211.D	10/01/2024	13:08
VSTDICC150	VSTDICC150	VX043212.D	10/01/2024	13:31

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VX043388.D BFB Injection Date: 10/15/2024

Instrument ID: MSVOA_X BFB Injection Time: 07:57

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	20.8
75	30.0 - 60.0% of mass 95	55.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	72.8
175	5.0 - 9.0% of mass 174	5.6 (7.6) 1
176	95.0 - 101.0% of mass 174	69.5 (95.5) 1
177	5.0 - 9.0% of mass 176	4.6 (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	VX043389.D	10/15/2024	08:26
VX1015WBL01	VX1015WBL01	VX043391.D	10/15/2024	09:31
VX1015WBS01	VX1015WBS01	VX043392.D	10/15/2024	09:54
VX1015WBSD01	VX1015WBSD01	VX043393.D	10/15/2024	10:28
TB-10102024	P4397-05	VX043399.D	10/15/2024	12:46
WB-301-SW	P4397-04	VX043400.D	10/15/2024	13:09

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

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.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VY019881.D BFB Injection Date: 10/14/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:19

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	23.1
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	76.1
175	5.0 - 9.0% of mass 174	5.6 (7.3) 1
176	95.0 - 101.0% of mass 174	72.7 (95.5) 1
177	5.0 - 9.0% of mass 176	4.9 (6.8) 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	VY019882.D	10/14/2024	09:52
VY1014SBL01	VY1014SBL01	VY019883.D	10/14/2024	10:31
VY1014SBS01	VY1014SBS01	VY019884.D	10/14/2024	11:56
VY1014SBSD01	VY1014SBSD01	VY019885.D	10/14/2024	12:18
WB-301-BOT	P4397-02	VY019889.D	10/14/2024	14:08
WB-301-TOP	P4397-01	VY019890.D	10/14/2024	14:31

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VX043389.D Date Analyzed: 10/15/2024

Instrument ID: MSVOA_X Time Analyzed: 08:26

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	108973	5.54	187563	6.76	162899	10.05
UPPER LIMIT	217946	6.044	375126	7.257	325798	10.549
LOWER LIMIT	54486.5	5.044	93781.5	6.257	81449.5	9.549
EPA SAMPLE NO.						
WB-301-SW	80908	5.55	148484	6.76	126066	10.06
TB-10102024	87697	5.55	161174	6.76	134772	10.06
VX1015WBL01	94368	5.55	170879	6.76	144567	10.06
VX1015WBS01	98951	5.55	177022	6.76	148487	10.06
VX1015WBSD01	94177	5.54	163248	6.76	138792	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.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VX043389.D Date Analyzed: 10/15/2024

Instrument ID: MSVOA_X Time Analyzed: 08:26

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

	IS4 AREA #	RT #				
12 HOUR STD	75623	12.018				
UPPER LIMIT	151246	12.518				
LOWER LIMIT	37811.5	11.518				
EPA SAMPLE NO.						
WB-301-SW	50389	12.02				
TB-10102024	57811	12.02				
VX1015WBL01	64756	12.02				
VX1015WBS01	66651	12.02				
VX1015WBSD01	64769	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.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VY019882.D Date Analyzed: 10/14/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:52

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	286716	7.71	498763	8.62	439404	11.41
UPPER LIMIT	573432	8.207	997526	9.116	878808	11.914
LOWER LIMIT	143358	7.207	249382	8.116	219702	10.914
EPA SAMPLE NO.						
WB-301-TOP	258268	7.71	523100	8.62	477257	11.41
WB-301-BOT	252165	7.71	523891	8.62	471714	11.41
VY1014SBL01	272092	7.71	541333	8.62	470368	11.41
VY1014SBS01	286988	7.71	511012	8.62	442973	11.41
VY1014SBSD01	289295	7.71	513238	8.62	439692	11.41

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.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VY019882.D Date Analyzed: 10/14/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:52

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

	IS4 AREA #	RT #				
12 HOUR STD	212252	13.347				
UPPER LIMIT	424504	13.847				
LOWER LIMIT	106126	12.847				
EPA SAMPLE NO.						
WB-301-TOP	164219	13.35				
WB-301-BOT	175128	13.35				
VY1014SBL01	156619	13.35				
VY1014SBS01	215154	13.35				
VY1014SBSD01	211812	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:	VX1015WBL01	SDG No.:	P4397
Lab Sample ID:	VX1015WBL01	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
VX043391.D	1		10/15/24 09:31	VX101524

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:	VX1015WBL01	SDG No.:	P4397
Lab Sample ID:	VX1015WBL01	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
VX043391.D	1		10/15/24 09:31	VX101524

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	50.4		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	49.6		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.6		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	94400	5.55			
540-36-3	1,4-Difluorobenzene	171000	6.757			
3114-55-4	Chlorobenzene-d5	145000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	64800	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:	VX1015WBL01	SDG No.:	P4397
Lab Sample ID:	VX1015WBL01	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
VX043391.D	1		10/15/24 09:31	VX101524

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:	VY1014SBL01	SDG No.:	P4397
Lab Sample ID:	VY1014SBL01	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
VY019883.D	1		10/14/24 10:31	VY101424

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:	VY1014SBL01	SDG No.:	P4397
Lab Sample ID:	VY1014SBL01	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
VY019883.D	1		10/14/24 10:31	VY101424

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	52.0		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.3		70 (29) - 130 (146)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	272000	7.713			
540-36-3	1,4-Difluorobenzene	541000	8.616			
3114-55-4	Chlorobenzene-d5	470000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	157000	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:	VY1014SBL01	SDG No.:	P4397
Lab Sample ID:	VY1014SBL01	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
VY019883.D	1		10/14/24 10:31	VY101424

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:	VX1015WBS01	SDG No.:	P4397
Lab Sample ID:	VX1015WBS01	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
VX043392.D	1		10/15/24 09:54	VX101524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		0.21	1.00	ug/L
74-87-3	Chloromethane	20.5		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	21.1		0.34	1.00	ug/L
74-83-9	Bromomethane	21.6		1.40	5.00	ug/L
75-00-3	Chloroethane	24.7		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	22.5		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	20.3		0.26	1.00	ug/L
67-64-1	Acetone	120		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.6		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	20.0		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.3		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.9		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	21.6		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.7		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.3		0.25	1.00	ug/L
74-97-5	Bromochloromethane	19.6		0.18	1.00	ug/L
67-66-3	Chloroform	21.9		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	20.8		0.19	1.00	ug/L
71-43-2	Benzene	21.1		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.4		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.5		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.1		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	20.8		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:	VX1015WBS01	SDG No.:	P4397
Lab Sample ID:	VX1015WBS01	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
VX043392.D	1		10/15/24 09:54	VX101524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.8		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.7		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	20.0		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.7		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.0		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	41.6		0.31	2.00	ug/L
95-47-6	o-Xylene	21.3		0.14	1.00	ug/L
100-42-5	Styrene	21.2		0.16	1.00	ug/L
75-25-2	Bromoform	19.1		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.8		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.7		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.2		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.7		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.2		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.8		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.2		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	21.2		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.2		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	99000	5.55			
540-36-3	1,4-Difluorobenzene	177000	6.757			
3114-55-4	Chlorobenzene-d5	148000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	66700	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:	VX1015WBS01	SDG No.:	P4397
Lab Sample ID:	VX1015WBS01	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
VX043392.D	1		10/15/24 09:54	VX101524

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
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N = Presumptive Evidence of a Compound
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1014SBS01	SDG No.:	P4397
Lab Sample ID:	VY1014SBS01	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
VY019884.D	1		10/14/24 11:56	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.0		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.8		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.1		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.6		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.1		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	19.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.0		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	15.6		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.3		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.7		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.7		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.0		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.4		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.6		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	22.5		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.5		0.87	5.00	ug/Kg
71-43-2	Benzene	19.7		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.8		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.1		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.5		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.6		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.0		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:	VY1014SBS01	SDG No.:	P4397
Lab Sample ID:	VY1014SBS01	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
VY019884.D	1		10/14/24 11:56	VY101424

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	19.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.4		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.0		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.2		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	17.8		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.4		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.70	5.00	ug/Kg
100-42-5	Styrene	19.9		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.0		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.3		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.4		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.5		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.9		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.4		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.1		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.2		70 (50) - 130 (163)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	55.0		70 (54) - 130 (147)	110%	SPK: 50
2037-26-5	Toluene-d8	52.7		70 (58) - 130 (134)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		70 (29) - 130 (146)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	287000	7.713			
540-36-3	1,4-Difluorobenzene	511000	8.616			
3114-55-4	Chlorobenzene-d5	443000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	215000	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:	VY1014SBS01	SDG No.:	P4397
Lab Sample ID:	VY1014SBS01	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
VY019884.D	1		10/14/24 11:56	VY101424

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:	VX1015WBSD01	SDG No.:	P4397
Lab Sample ID:	VX1015WBSD01	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
VX043393.D	1		10/15/24 10:28	VX101524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		0.21	1.00	ug/L
74-87-3	Chloromethane	19.6		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	20.5		0.34	1.00	ug/L
74-83-9	Bromomethane	20.9		1.40	5.00	ug/L
75-00-3	Chloroethane	21.2		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.9		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.8		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	22.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	20.4		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	21.0		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	21.1		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.9		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.5		0.25	1.00	ug/L
74-97-5	Bromochloromethane	19.2		0.18	1.00	ug/L
67-66-3	Chloroform	21.6		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	21.9		0.19	1.00	ug/L
71-43-2	Benzene	21.2		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.2		0.24	1.00	ug/L
79-01-6	Trichloroethene	21.1		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.7		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	21.6		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:	VX1015WBSD01	SDG No.:	P4397
Lab Sample ID:	VX1015WBSD01	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
VX043393.D	1		10/15/24 10:28	VX101524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	21.7		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.1		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	20.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.4		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	22.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.2		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.5		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	42.6		0.31	2.00	ug/L
95-47-6	o-Xylene	21.2		0.14	1.00	ug/L
100-42-5	Styrene	21.2		0.16	1.00	ug/L
75-25-2	Bromoform	19.4		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.3		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.9		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.3		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.5		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.9		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	21.2		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	21.1		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.4		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	94200	5.544			
540-36-3	1,4-Difluorobenzene	163000	6.757			
3114-55-4	Chlorobenzene-d5	139000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	64800	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:	VX1015WBSD01	SDG No.:	P4397
Lab Sample ID:	VX1015WBSD01	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
VX043393.D	1		10/15/24 10:28	VX101524

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:	VY1014SBSD01	SDG No.:	P4397
Lab Sample ID:	VY1014SBSD01	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
VY019885.D	1		10/14/24 12:18	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.0		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.6		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.2		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	19.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.3		0.78	5.00	ug/Kg
67-64-1	Acetone	98.7		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	15.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.6		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	24.1		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	18.8		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.7		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.6		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.3		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.1		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	22.3		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.7		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.8		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.0		0.87	5.00	ug/Kg
71-43-2	Benzene	19.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.9		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.8		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	19.6		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:	VY1014SBSD01	SDG No.:	P4397
Lab Sample ID:	VY1014SBSD01	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
VY019885.D	1		10/14/24 12:18	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.8		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.6		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	100		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.6		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.9		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.3		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.6		0.70	5.00	ug/Kg
100-42-5	Styrene	20.1		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.1		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.2		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.2		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.4		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.7		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.0		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	54.7		70 (50) - 130 (163)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	54.2		70 (54) - 130 (147)	108%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (58) - 130 (134)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		70 (29) - 130 (146)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	289000	7.707			
540-36-3	1,4-Difluorobenzene	513000	8.615			
3114-55-4	Chlorobenzene-d5	440000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	212000	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:	VY1014SBSD01	SDG No.:	P4397
Lab Sample ID:	VY1014SBSD01	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
VY019885.D	1		10/14/24 12:18	VY101424

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

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_X Calibration Date(s): 10/01/2024 10/01/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:36 13:31

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

LAB FILE ID: RRF001 = VX043207.D RRF005 = VX043208.D RRF020 = VX043209.D
RRF050 = VX043210.D RRF100 = VX043211.D RRF150 = VX043212.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.558	0.532	0.539	0.599	0.608	0.654	0.582	8.1
Chloromethane	0.673	0.565	0.559	0.601	0.567	0.629	0.599	7.5
Vinyl Chloride	0.564	0.582	0.580	0.603	0.607	0.664	0.600	5.9
Bromomethane		0.247	0.219	0.239	0.245	0.275	0.245	8.2
Chloroethane	0.277	0.207	0.207	0.225	0.209	0.215	0.223	12.1
Trichlorofluoromethane	0.969	0.869	0.860	0.869	0.864	0.948	0.896	5.4
1,1,2-Trichlorotrifluoroethane	0.531	0.536	0.534	0.559	0.584	0.612	0.559	5.9
1,1-Dichloroethene	0.579	0.529	0.525	0.549	0.548	0.604	0.556	5.5
Acetone	0.414	0.361	0.337	0.317	0.303	0.314	0.341	12
Carbon Disulfide	1.388	1.238	1.288	1.321	1.361	1.512	1.351	7
Methyl tert-butyl Ether	1.862	1.948	1.944	1.993	2.016	2.162	1.987	5
Methyl Acetate	0.890	0.787	0.739	0.891	0.881	0.945	0.855	8.9
Methylene Chloride	0.676	0.629	0.599	0.612	0.604	0.652	0.629	4.8
trans-1,2-Dichloroethene	0.514	0.537	0.545	0.550	0.563	0.608	0.553	5.7
1,1-Dichloroethane	0.962	1.057	1.056	1.073	1.102	1.166	1.069	6.2
Cyclohexane		0.873	0.880	0.860	0.875	0.917	0.881	2.4
2-Butanone	0.459	0.480	0.466	0.471	0.452	0.478	0.468	2.3
Carbon Tetrachloride	0.474	0.491	0.505	0.527	0.531	0.566	0.516	6.3
cis-1,2-Dichloroethene	0.654	0.682	0.674	0.683	0.695	0.750	0.690	4.7
Bromochloromethane	0.504	0.474	0.348	0.404	0.381	0.420	0.422	13.8
Chloroform	1.171	1.174	1.148	1.151	1.161	1.242	1.174	2.9
1,1,1-Trichloroethane	1.020	1.050	1.046	1.083	1.100	1.173	1.079	5
Methylcyclohexane	0.502	0.525	0.552	0.550	0.569	0.590	0.548	5.7
Benzene	1.289	1.310	1.314	1.314	1.308	1.389	1.321	2.6
1,2-Dichloroethane	0.516	0.523	0.539	0.545	0.536	0.569	0.538	3.5
Trichloroethene	0.370	0.322	0.345	0.342	0.348	0.375	0.350	5.6
1,2-Dichloropropane	0.306	0.319	0.322	0.328	0.324	0.346	0.324	4.1
Bromodichloromethane	0.462	0.477	0.499	0.527	0.528	0.570	0.511	7.7
4-Methyl-2-Pentanone	0.514	0.520	0.522	0.543	0.514	0.537	0.525	2.3
Toluene	0.798	0.819	0.829	0.845	0.811	0.865	0.828	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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_X Calibration Date(s): 10/01/2024 10/01/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:36 13:31

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

LAB FILE ID: RRF001 = VX043207.D RRF005 = VX043208.D RRF020 = VX043209.D
RRF050 = VX043210.D RRF100 = VX043211.D RRF150 = VX043212.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.431	0.459	0.496	0.542	0.535	0.581	0.507	11
cis-1,3-Dichloropropene	0.499	0.518	0.529	0.560	0.556	0.603	0.544	6.8
1,1,2-Trichloroethane	0.316	0.329	0.328	0.340	0.320	0.341	0.329	3.1
2-Hexanone	0.373	0.390	0.397	0.413	0.396	0.412	0.397	3.8
Dibromochloromethane	0.343	0.348	0.369	0.407	0.394	0.430	0.382	9
1,2-Dibromoethane	0.354	0.331	0.353	0.364	0.346	0.372	0.353	4
Tetrachloroethene	0.335	0.343	0.345	0.343	0.345	0.371	0.347	3.5
Chlorobenzene	1.110	1.030	1.033	1.058	1.065	1.154	1.075	4.5
Ethyl Benzene	1.795	1.770	1.816	1.887	1.857	2.023	1.858	4.9
m/p-Xylenes	0.698	0.683	0.682	0.704	0.692	0.755	0.702	3.9
o-Xylene	0.704	0.689	0.668	0.693	0.685	0.747	0.698	3.9
Styrene	1.016	1.067	1.111	1.165	1.164	1.262	1.131	7.6
Bromoform	0.236	0.244	0.280	0.305	0.323	0.358	0.291	16.2
Isopropylbenzene	3.742	3.936	3.886	3.910	3.776	4.075	3.887	3.1
1,1,2,2-Tetrachloroethane	1.243	1.295	1.243	1.248	1.238	1.332	1.266	3
1,3-Dichlorobenzene	1.609	1.634	1.642	1.629	1.666	1.819	1.666	4.6
1,4-Dichlorobenzene	1.848	1.672	1.662	1.639	1.665	1.823	1.718	5.4
1,2-Dichlorobenzene	1.774	1.720	1.690	1.650	1.636	1.755	1.704	3.3
1,2-Dibromo-3-Chloropropane	0.290	0.281	0.298	0.312	0.324	0.351	0.309	8.3
1,2,4-Trichlorobenzene	0.865	0.837	0.944	1.001	1.058	1.190	0.983	13.3
1,2,3-Trichlorobenzene	0.957	0.918	0.957	1.016	1.056	1.179	1.014	9.3
1,2-Dichloroethane-d4		0.802	0.779	0.814	0.788	0.900	0.817	5.9
Dibromofluoromethane		0.331	0.329	0.340	0.339	0.384	0.345	6.5
Toluene-d8		1.148	1.165	1.217	1.147	1.298	1.195	5.4
4-Bromofluorobenzene		0.404	0.413	0.453	0.421	0.480	0.434	7.3

* 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.: P4397 SAS No.: P4397 SDG No.: P4397

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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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

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.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_X Calibration Date/Time: 10/15/2024 08:26

Lab File ID: VX043389.D Init. Calib. Date(s): 10/01/2024 10/01/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:36 13:31

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.582	0.590		1.38	20
Chloromethane	0.599	0.601	0.1	0.33	20
Vinyl Chloride	0.600	0.609		1.5	20
Bromomethane	0.245	0.240		-2.04	20
Chloroethane	0.223	0.226		1.35	20
Trichlorofluoromethane	0.896	0.974		8.7	20
1,1,2-Trichlorotrifluoroethane	0.559	0.572		2.33	20
1,1-Dichloroethene	0.556	0.525		-5.58	20
Acetone	0.341	0.402		17.89	20
Carbon Disulfide	1.351	1.220		-9.7	20
Methyl tert-butyl Ether	1.987	2.048		3.07	20
Methyl Acetate	0.855	0.802		-6.2	20
Methylene Chloride	0.629	0.618		-1.75	20
trans-1,2-Dichloroethene	0.553	0.552		-0.18	20
1,1-Dichloroethane	1.069	1.082	0.1	1.22	20
Cyclohexane	0.881	0.871		-1.13	20
2-Butanone	0.468	0.495		5.77	20
Carbon Tetrachloride	0.516	0.526		1.94	20
cis-1,2-Dichloroethene	0.690	0.693		0.44	20
Bromochloromethane	0.422	0.381		-9.72	20
Chloroform	1.174	1.184		0.85	20
1,1,1-Trichloroethane	1.079	1.066		-1.21	20
Methylcyclohexane	0.548	0.566		3.29	20
Benzene	1.321	1.333		0.91	20
1,2-Dichloroethane	0.538	0.558		3.72	20
Trichloroethene	0.350	0.345		-1.43	20
1,2-Dichloropropane	0.324	0.329		1.54	20
Bromodichloromethane	0.511	0.536		4.89	20
4-Methyl-2-Pentanone	0.525	0.521		-0.76	20
Toluene	0.828	0.856		3.38	20
t-1,3-Dichloropropene	0.507	0.551		8.68	20
cis-1,3-Dichloropropene	0.544	0.569		4.6	20
1,1,2-Trichloroethane	0.329	0.339		3.04	20
2-Hexanone	0.397	0.405		2.02	20
Dibromochloromethane	0.382	0.397		3.93	20
1,2-Dibromoethane	0.353	0.362		2.55	20
Tetrachloroethene	0.347	0.351		1.15	20
Chlorobenzene	1.075	1.071	0.3	-0.37	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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_X Calibration Date/Time: 10/15/2024 08:26

Lab File ID: VX043389.D Init. Calib. Date(s): 10/01/2024 10/01/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:36 13:31

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.858	1.881		1.24	20
m/p-Xylenes	0.702	0.704		0.28	20
o-Xylene	0.698	0.695		-0.43	20
Styrene	1.131	1.156		2.21	20
Bromoform	0.291	0.289	0.1	-0.69	20
Isopropylbenzene	3.887	3.875		-0.31	20
1,1,2,2-Tetrachloroethane	1.266	1.254	0.3	-0.95	20
1,3-Dichlorobenzene	1.666	1.690		1.44	20
1,4-Dichlorobenzene	1.718	1.673		-2.62	20
1,2-Dichlorobenzene	1.704	1.672		-1.88	20
1,2-Dibromo-3-Chloropropane	0.309	0.290		-6.15	20
1,2,4-Trichlorobenzene	0.983	1.042		6	20
1,2,3-Trichlorobenzene	1.014	1.025		1.09	20
1,2-Dichloroethane-d4	0.817	0.787		-3.67	20
Dibromofluoromethane	0.345	0.333		-3.48	20
Toluene-d8	1.195	1.128		-5.61	20
4-Bromofluorobenzene	0.434	0.429		-1.15	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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_Y Calibration Date/Time: 10/14/2024 09:52

Lab File ID: VY019882.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	0.410		-11.83	20
Chloromethane	0.606	0.563	0.1	-7.1	20
Vinyl Chloride	0.667	0.625		-6.3	20
Bromomethane	0.422	0.395		-6.4	20
Chloroethane	0.448	0.429		-4.24	20
Trichlorofluoromethane	0.992	0.941		-5.14	20
1,1,2-Trichlorotrifluoroethane	0.577	0.556		-3.64	20
1,1-Dichloroethene	0.536	0.492		-8.21	20
Acetone	0.160	0.179		11.88	20
Carbon Disulfide	1.438	1.214		-15.58	20
Methyl tert-butyl Ether	1.541	1.550		0.58	20
Methyl Acetate	0.345	0.359		4.06	20
Methylene Chloride	0.647	0.591		-8.65	20
trans-1,2-Dichloroethene	0.584	0.559		-4.28	20
1,1-Dichloroethane	1.172	1.193	0.1	1.79	20
Cyclohexane	1.029	0.912		-11.37	20
2-Butanone	0.215	0.229		6.51	20
Carbon Tetrachloride	0.510	0.501		-1.76	20
cis-1,2-Dichloroethene	0.721	0.713		-1.11	20
Bromochloromethane	0.516	0.554		7.36	20
Chloroform	1.195	1.236		3.43	20
1,1,1-Trichloroethane	1.047	1.041		-0.57	20
Methylcyclohexane	0.599	0.552		-7.85	20
Benzene	1.439	1.444		0.35	20
1,2-Dichloroethane	0.413	0.422		2.18	20
Trichloroethene	0.348	0.341		-2.01	20
1,2-Dichloropropane	0.360	0.376		4.44	20
Bromodichloromethane	0.522	0.553		5.94	20
4-Methyl-2-Pentanone	0.258	0.275		6.59	20
Toluene	0.898	0.919		2.34	20
t-1,3-Dichloropropene	0.470	0.484		2.98	20
cis-1,3-Dichloropropene	0.554	0.565		1.99	20
1,1,2-Trichloroethane	0.259	0.269		3.86	20
2-Hexanone	0.184	0.198		7.61	20
Dibromochloromethane	0.333	0.350		5.11	20
1,2-Dibromoethane	0.234	0.240		2.56	20
Tetrachloroethene	0.356	0.326		-8.43	20
Chlorobenzene	1.144	1.139	0.3	-0.44	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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_Y Calibration Date/Time: 10/14/2024 09:52

Lab File ID: VY019882.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	2.048		-1.4	20
m/p-Xylenes	0.767	0.758		-1.17	20
o-Xylene	0.737	0.737		0	20
Styrene	1.244	1.264		1.61	20
Bromoform	0.207	0.205	0.1	-0.97	20
Isopropylbenzene	4.206	4.068		-3.28	20
1,1,2,2-Tetrachloroethane	0.747	0.756	0.3	1.21	20
1,3-Dichlorobenzene	1.802	1.733		-3.83	20
1,4-Dichlorobenzene	1.771	1.732		-2.2	20
1,2-Dichlorobenzene	1.584	1.540		-2.78	20
1,2-Dibromo-3-Chloropropane	0.119	0.112		-5.88	20
1,2,4-Trichlorobenzene	0.888	0.822		-7.43	20
1,2,3-Trichlorobenzene	0.751	0.689		-8.26	20
1,2-Dichloroethane-d4	0.616	0.619		0.49	20
Dibromofluoromethane	0.330	0.343		3.94	20
Toluene-d8	1.218	1.238		1.64	20
4-Bromofluorobenzene	0.440	0.447		1.59	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_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Quant Time: Oct 15 01:37:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

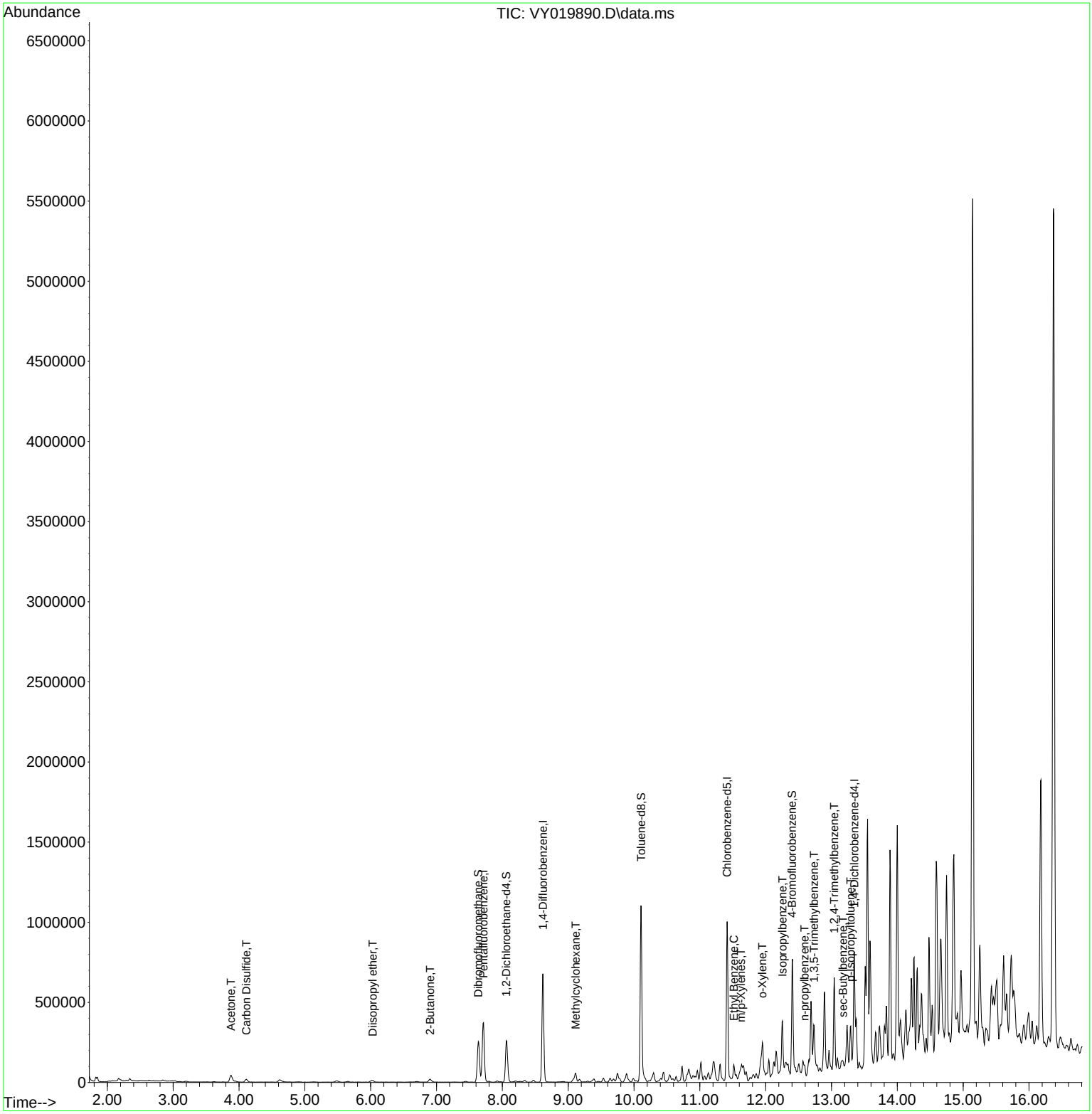
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	258268	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	523100	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	477257	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	164219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	200812	63.148	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 126.300%			
35) Dibromofluoromethane	7.634	113	178738	51.780	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.560%			
50) Toluene-d8	10.109	98	645964	50.674	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.340%			
62) 4-Bromofluorobenzene	12.402	95	202166	43.892	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 87.780%			
Target Compounds						Qvalue
16) Acetone	3.879	43	79461	95.989	ug/l #	84
17) Carbon Disulfide	4.110	76	32155	4.330	ug/l #	92
22) Diisopropyl ether	6.031	45	14136	1.298	ug/l #	86
25) 2-Butanone	6.903	43	31799	28.698	ug/l #	82
39) Methylcyclohexane	9.116	83	18263	2.915	ug/l	88
67) Ethyl Benzene	11.518	91	58733	2.962	ug/l	96
68) m/p-Xylenes	11.627	106	17656	2.411	ug/l	92
69) o-Xylene	11.950	106	47505	6.751	ug/l	94
73) Isopropylbenzene	12.255	105	192294	13.921	ug/l	97
78) n-propylbenzene	12.591	91	44469	2.664	ug/l	96
80) 1,3,5-Trimethylbenzene	12.737	105	92114	8.257	ug/l	95
84) 1,2,4-Trimethylbenzene	13.042	105	288058	26.045	ug/l	96
85) sec-Butylbenzene	13.176	105	16043	1.074	ug/l #	59
86) p-Isopropyltoluene	13.292	119	112455	9.275	ug/l	93

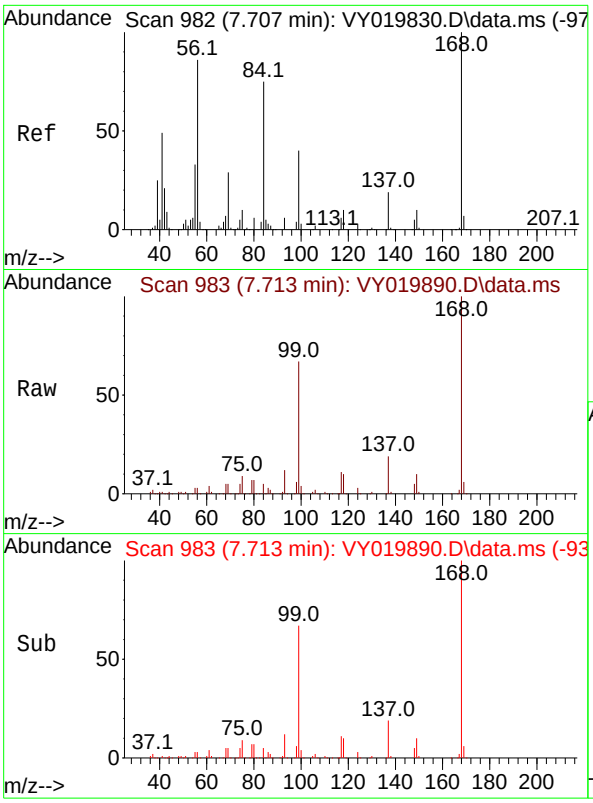
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Quant Time: Oct 15 01:37:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration



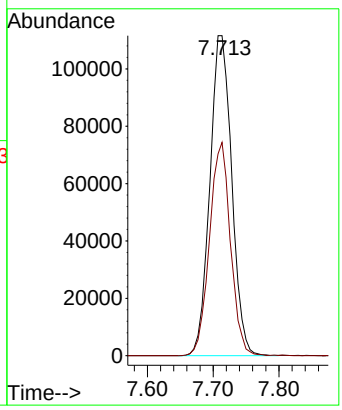


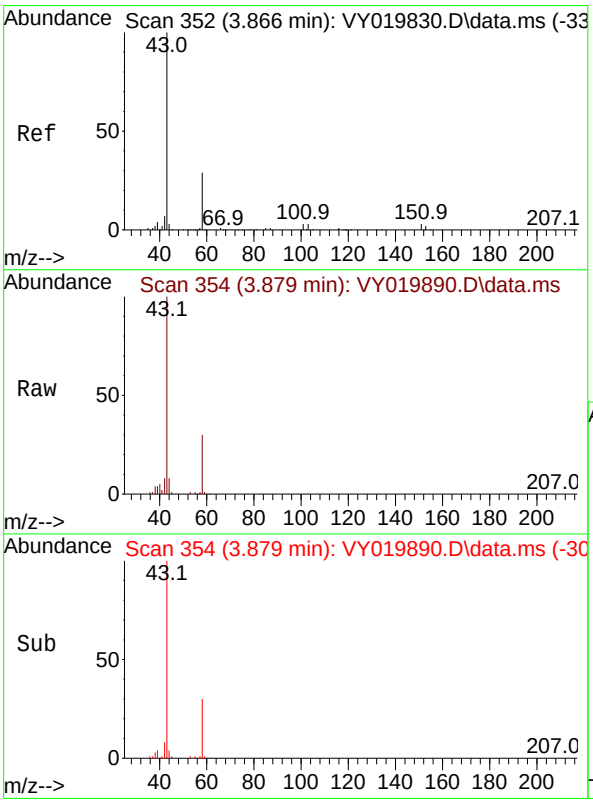
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Tgt Ion:168 Resp: 258268

Ion	Ratio	Lower	Upper
168	100		
99	66.7	39.1	58.7#

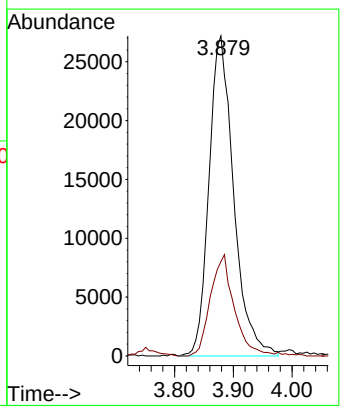


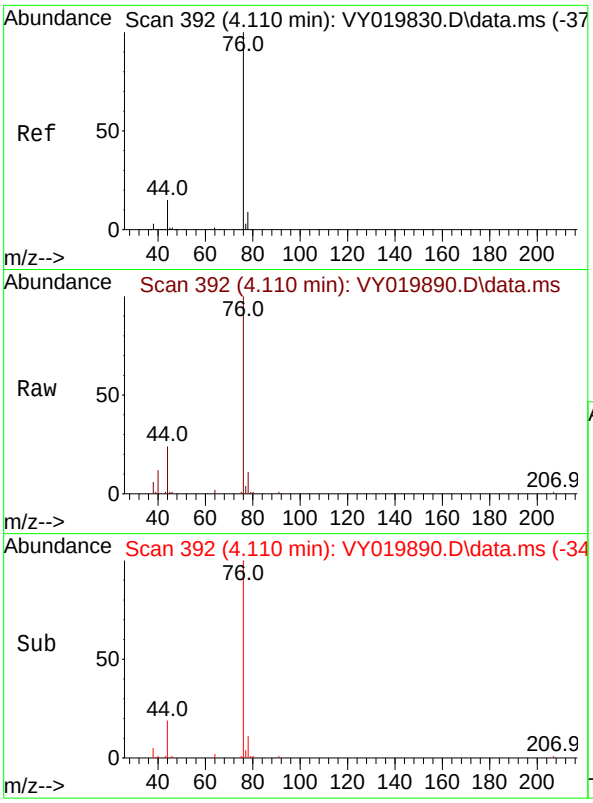


#16
Acetone
Concen: 95.989 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion: 43 Resp: 79461

Ion	Ratio	Lower	Upper
43	100		
58	29.5	31.7	47.5#



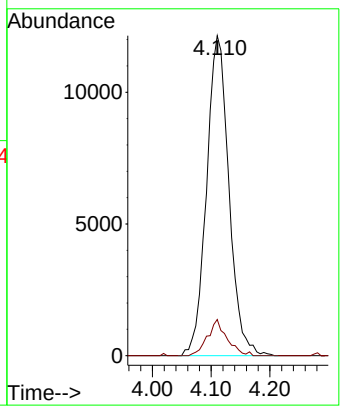


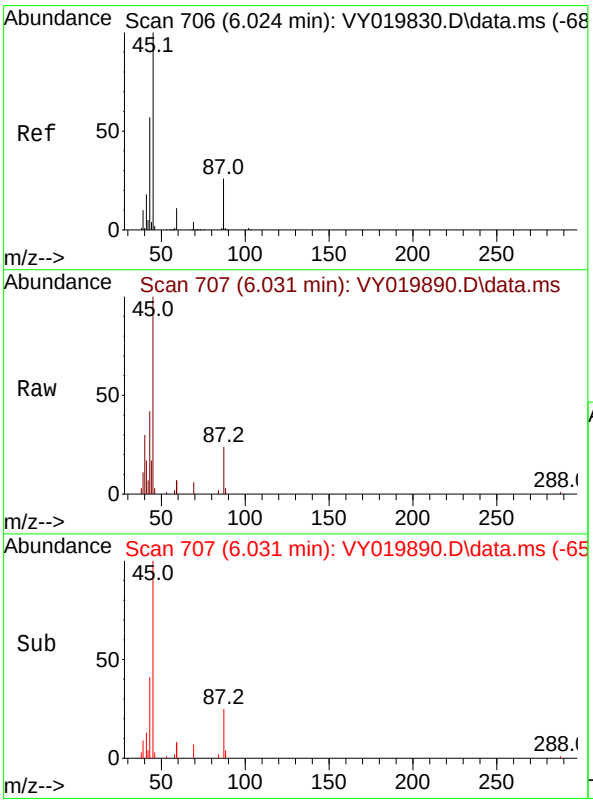
#17
Carbon Disulfide
Concen: 4.330 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Tgt Ion: 76 Resp: 32155

Ion	Ratio	Lower	Upper
76	100		
78	11.3	6.8	10.2#

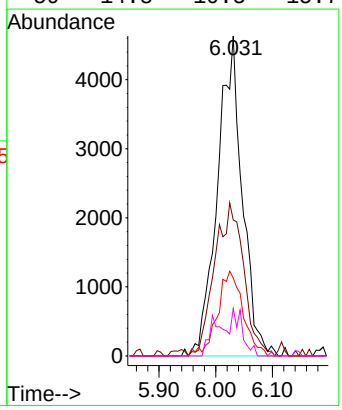


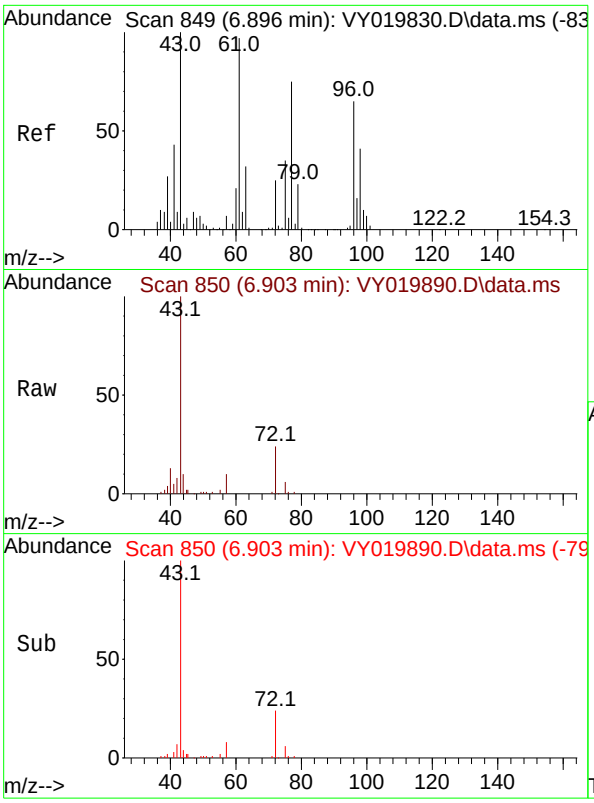


#22
Diisopropyl ether
Concen: 1.298 ug/l
RT: 6.031 min Scan# 707
Delta R.T. 0.013 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion: 45 Resp: 14136

Ion	Ratio	Lower	Upper
45	100		
43	41.0	42.2	63.2#
87	24.4	25.0	37.6#
59	14.8	10.5	15.7



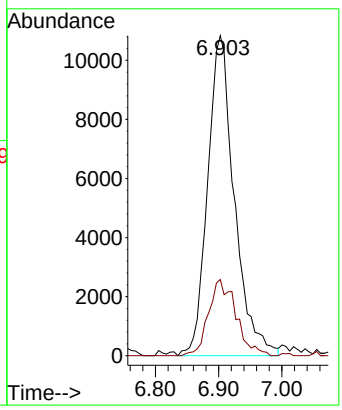


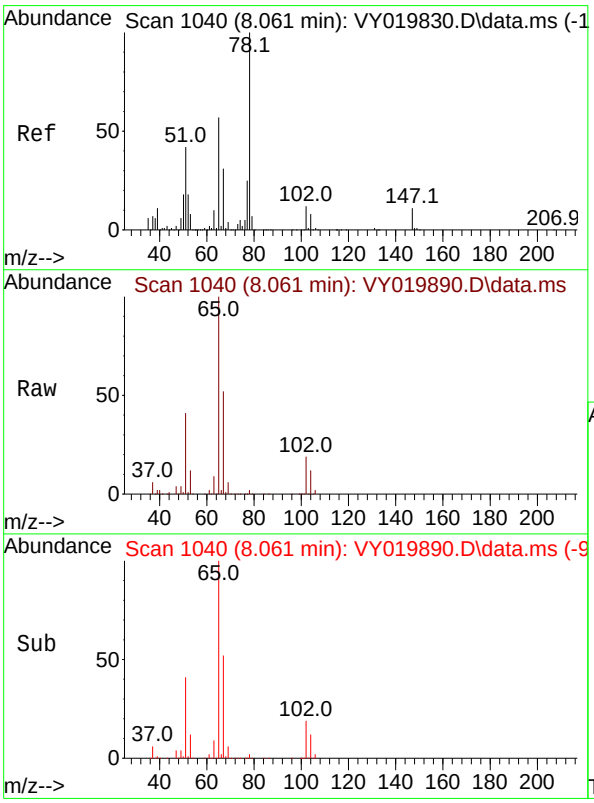
#25
2-Butanone
Concen: 28.698 ug/l
RT: 6.903 min Scan# 8
Delta R.T. 0.013 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Tgt Ion: 43 Resp: 31799

Ion	Ratio	Lower	Upper
43	100		
72	23.8	27.3	40.9#

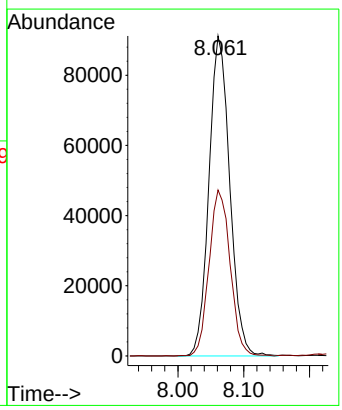


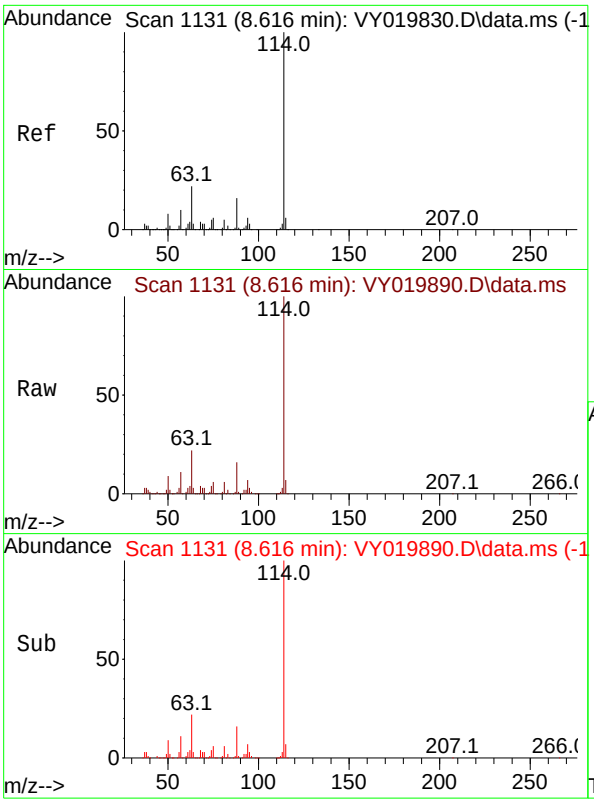


#33
1,2-Dichloroethane-d4
Concen: 63.148 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion: 65 Resp: 200812

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	109.6



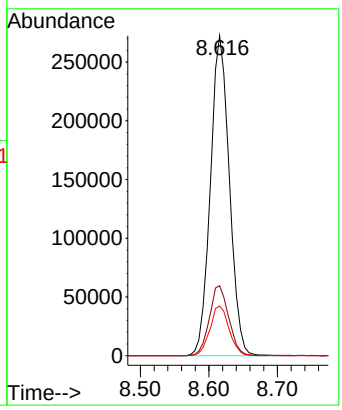


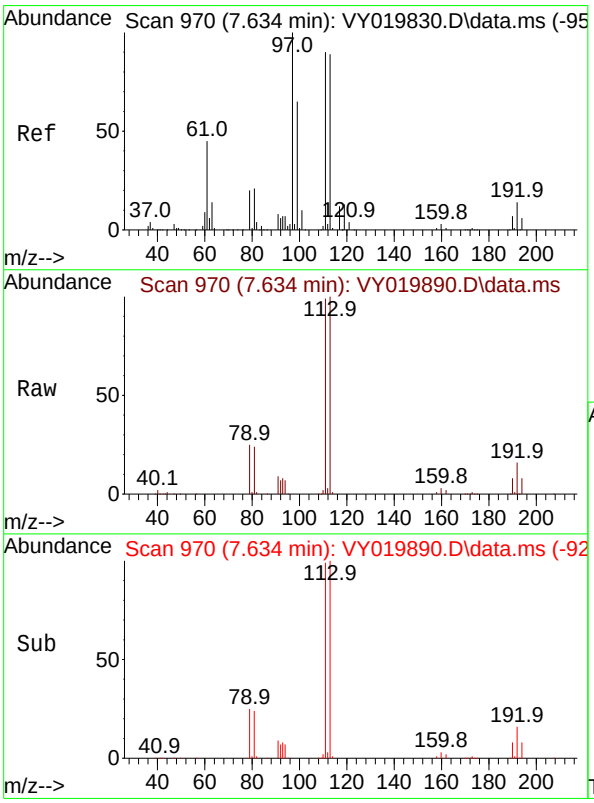
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Tgt Ion:114 Resp: 523100

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	35.0
88	15.5	0.0	27.2

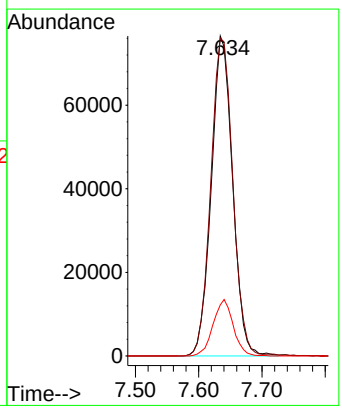


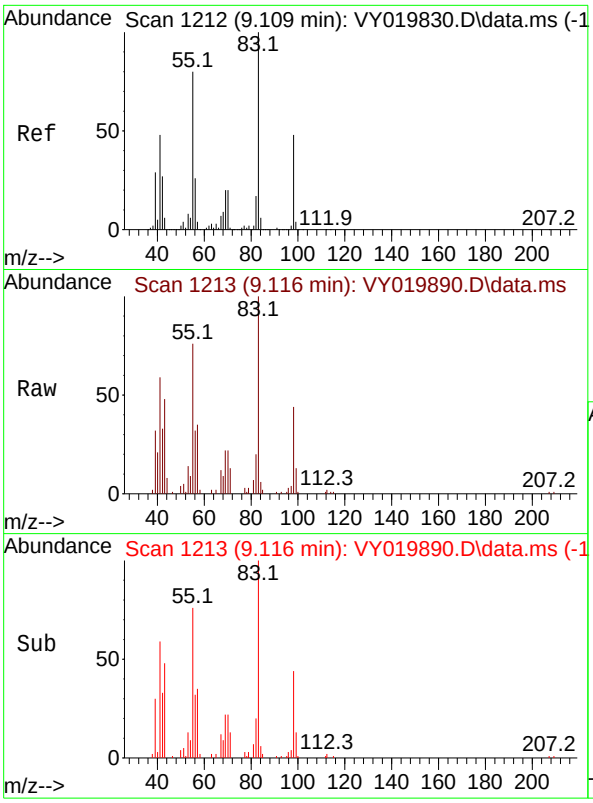


#35
Dibromofluoromethane
Concen: 51.780 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion:113 Resp: 178738

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.2	123.4
192	16.7	15.9	23.9



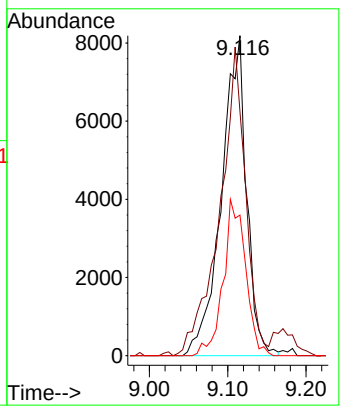


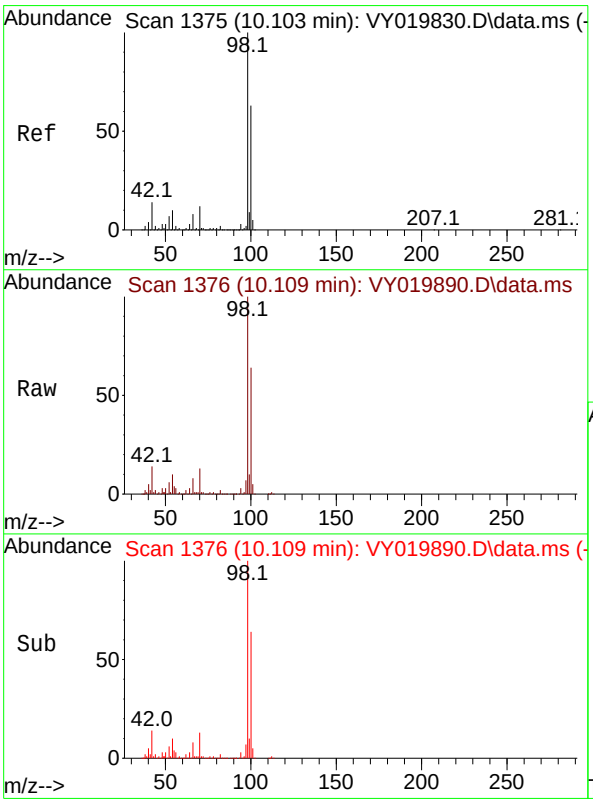
#39
Methylcyclohexane
Concen: 2.915 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Tgt Ion: 83 Resp: 18263

Ion	Ratio	Lower	Upper
83	100		
55	75.6	51.5	77.3
98	43.9	40.5	60.7

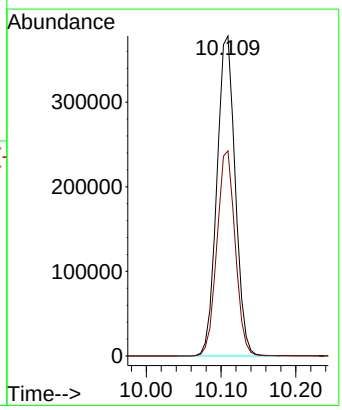


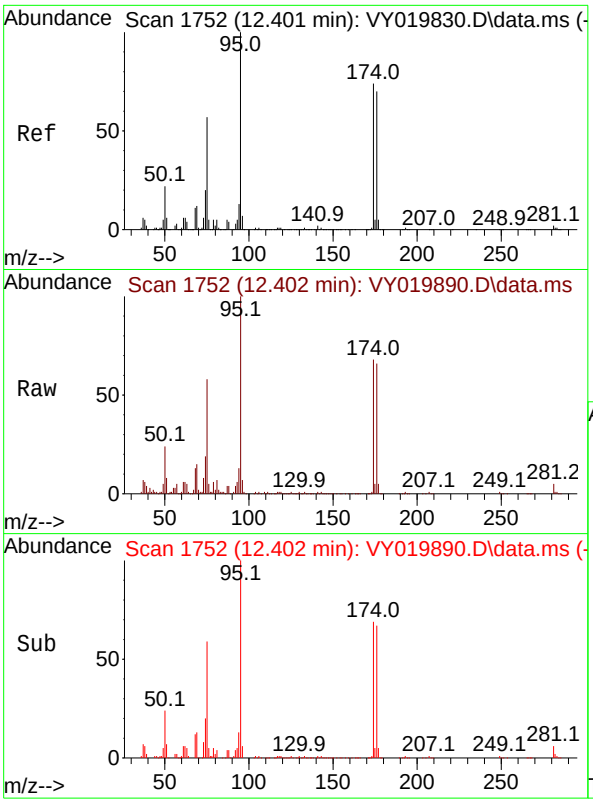


#50
Toluene-d8
Concen: 50.674 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion: 98 Resp: 645964

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.0	78.0



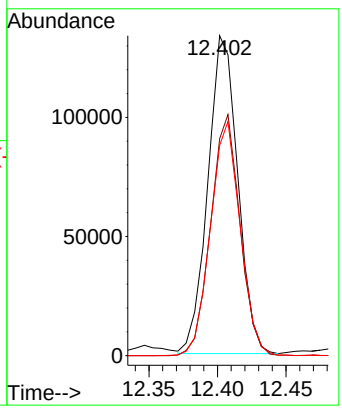


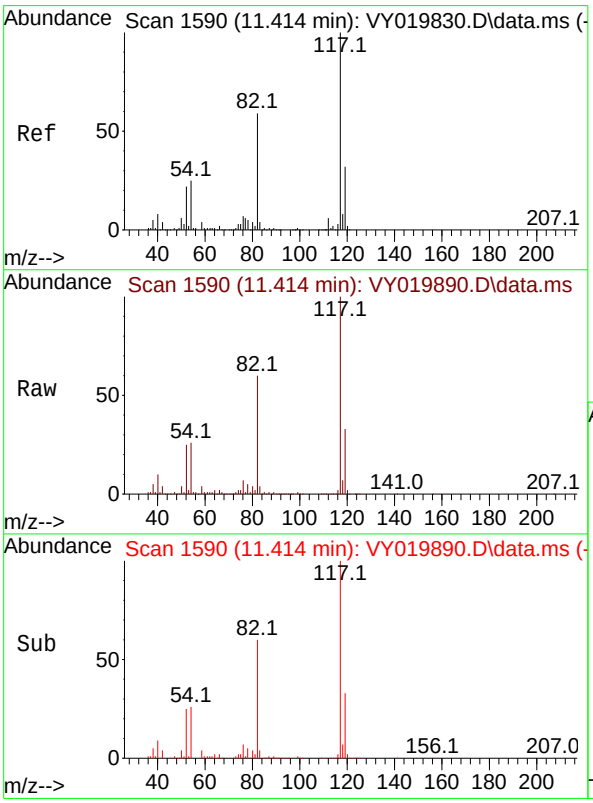
#62
4-Bromofluorobenzene
Concen: 43.892 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Tgt Ion: 95 Resp: 202166

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	175.6
176	73.4	0.0	171.4

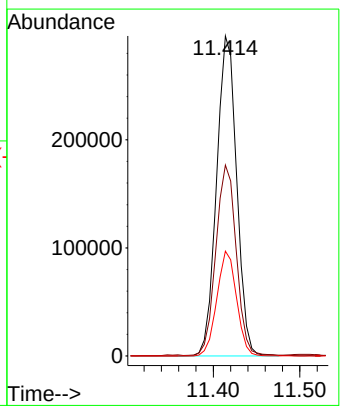


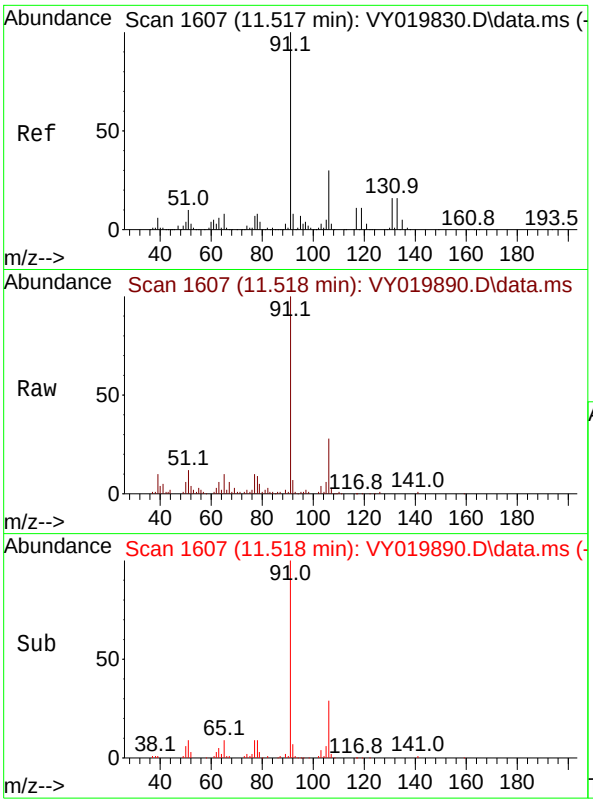


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion:117 Resp: 477257

Ion	Ratio	Lower	Upper
117	100		
82	59.4	42.4	63.6
119	32.8	25.9	38.9



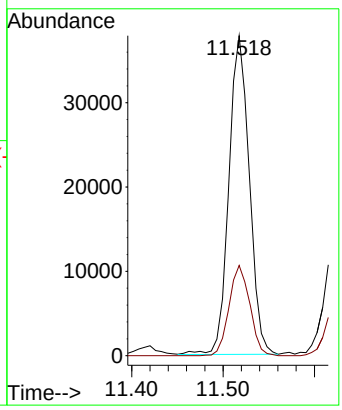


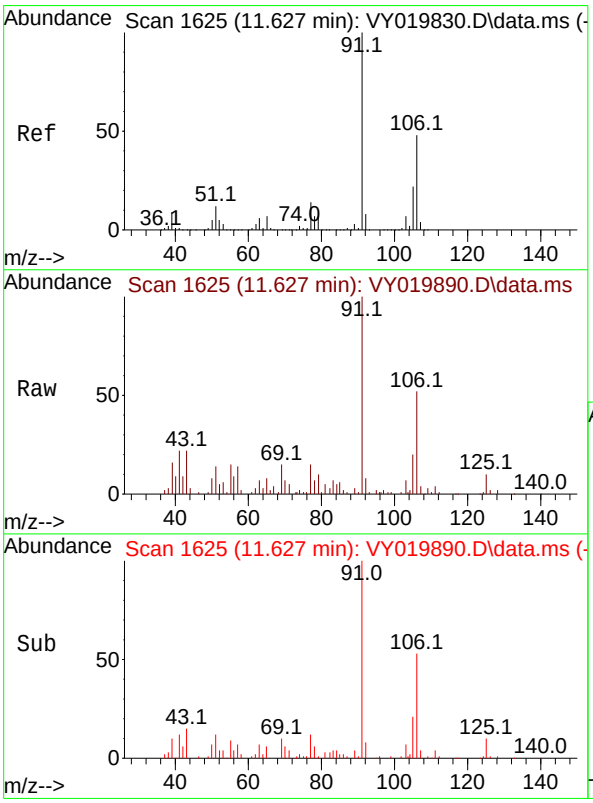
#67
Ethyl Benzene
Concen: 2.962 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Tgt Ion: 91 Resp: 58733

Ion	Ratio	Lower	Upper
91	100		
106	28.3	24.5	36.7

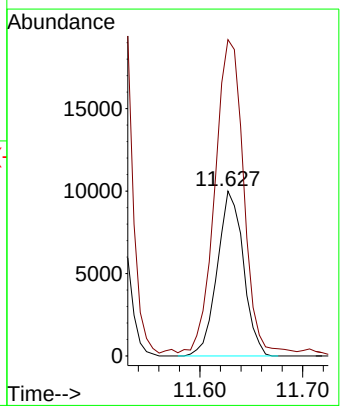


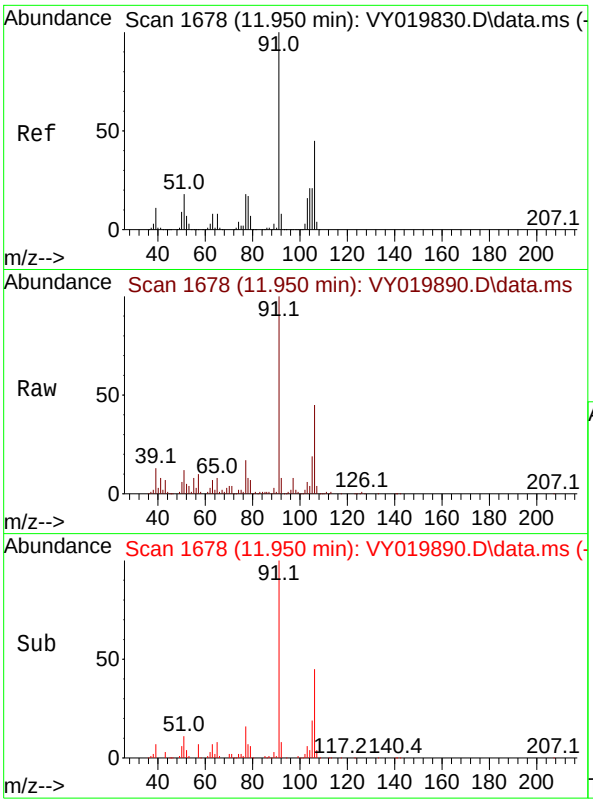


#68
m/p-Xylenes
Concen: 2.411 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion:106 Resp: 17656

Ion	Ratio	Lower	Upper
106	100		
91	206.5	156.0	234.0



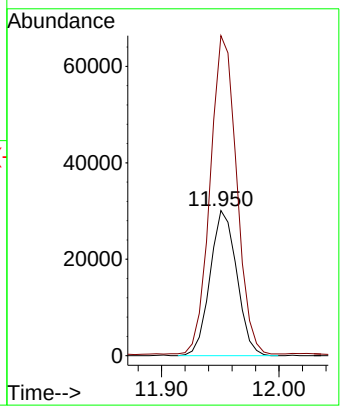


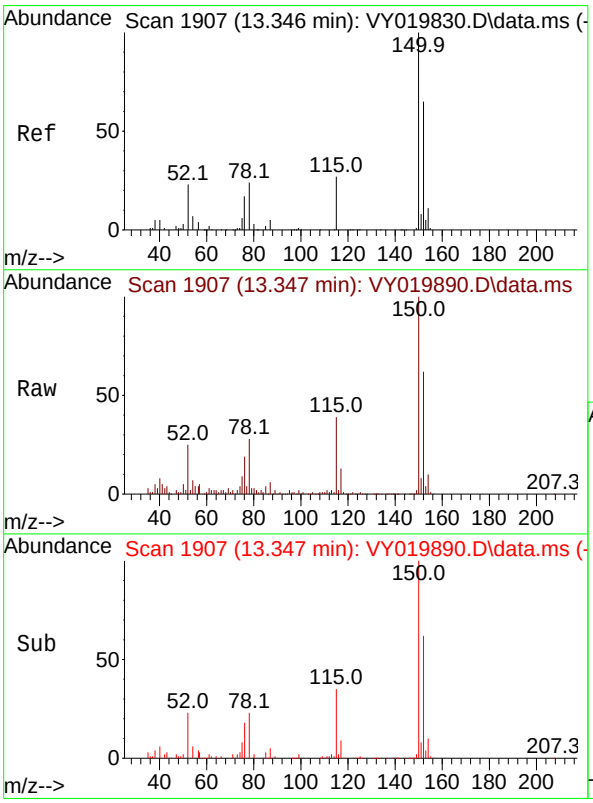
#69
o-Xylene
Concen: 6.751 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Tgt Ion:106 Resp: 47505

Ion	Ratio	Lower	Upper
106	100		
91	217.1	103.6	310.8

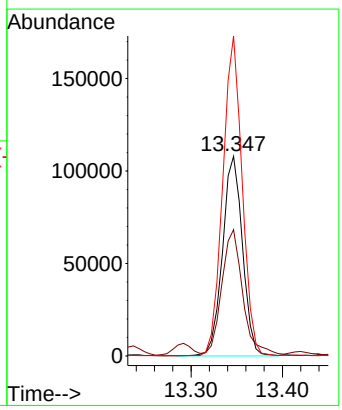


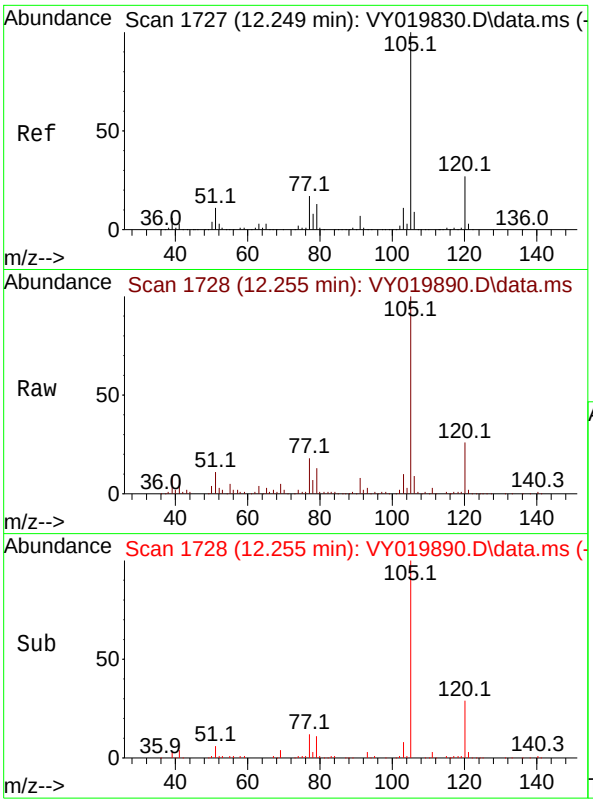


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion:152 Resp: 164219

Ion	Ratio	Lower	Upper
152	100		
115	64.8	28.2	84.7
150	154.9	0.0	345.6



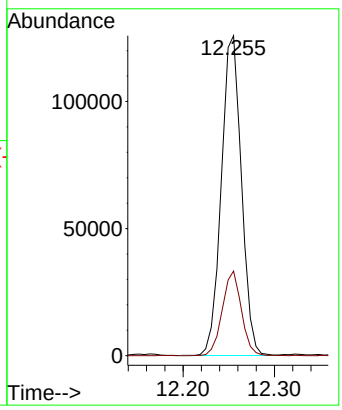


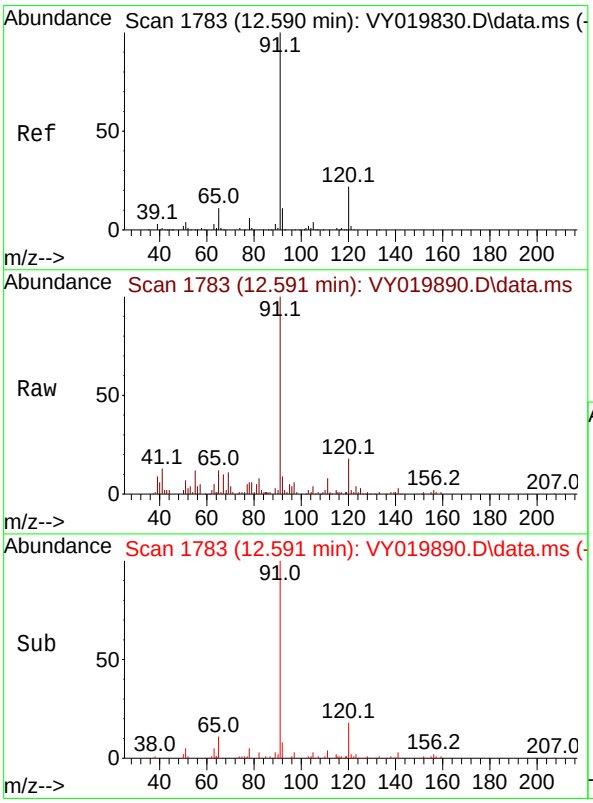
#73
Isopropylbenzene
Concen: 13.921 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Tgt Ion:105 Resp: 192294

Ion	Ratio	Lower	Upper
105	100		
120	25.1	13.4	40.1

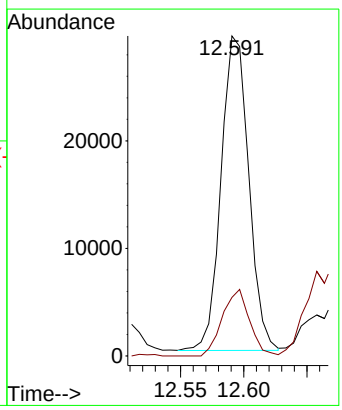




#78
n-propylbenzene
Concen: 2.664 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

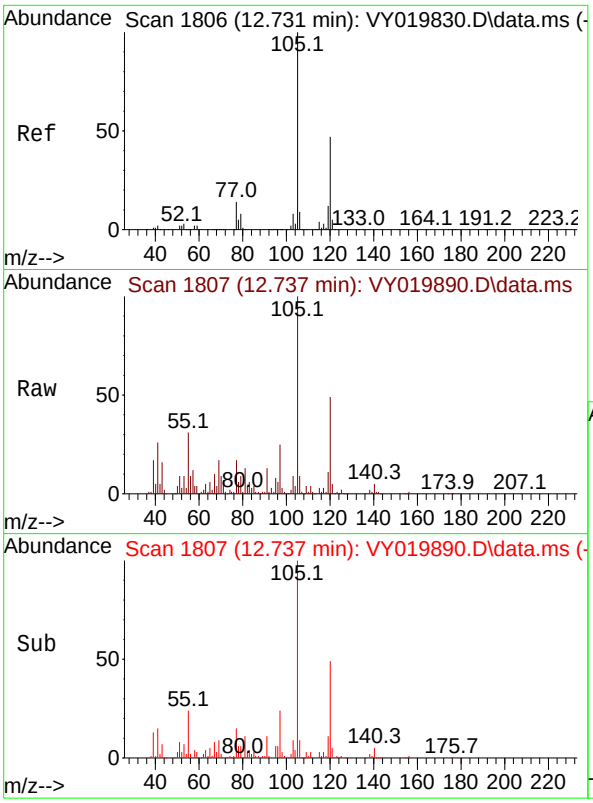
Tgt Ion: 91 Resp: 44469

Ion	Ratio	Lower	Upper
91	100		
120	20.7	11.5	34.4



5

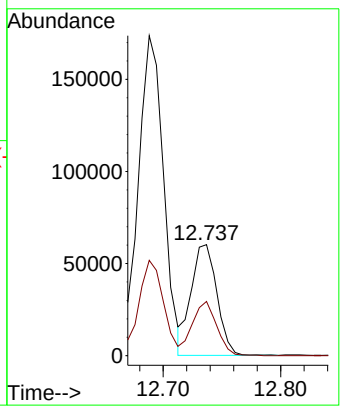
Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

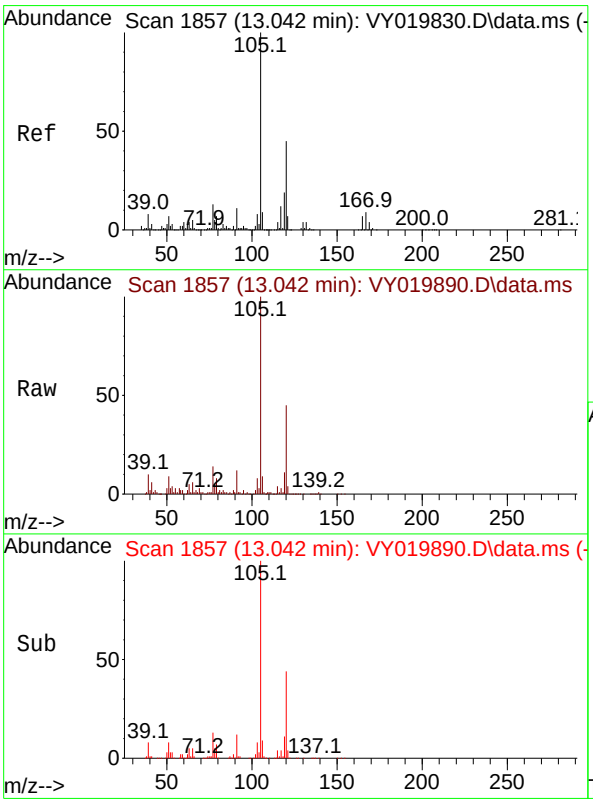


#80
1,3,5-Trimethylbenzene
Concen: 8.257 ug/l
RT: 12.737 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion:105 Resp: 92114

Ion	Ratio	Lower	Upper
105	100		
120	46.5	25.1	75.2

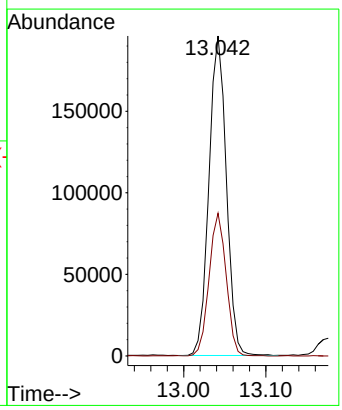


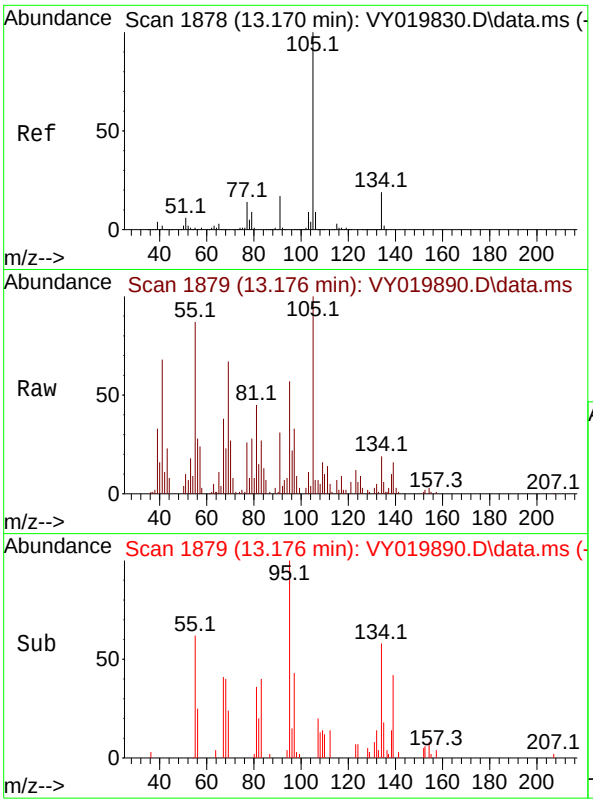


#84
1,2,4-Trimethylbenzene
Concen: 26.045 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion:105 Resp: 288058

Ion	Ratio	Lower	Upper
105	100		
120	43.9	23.2	69.6



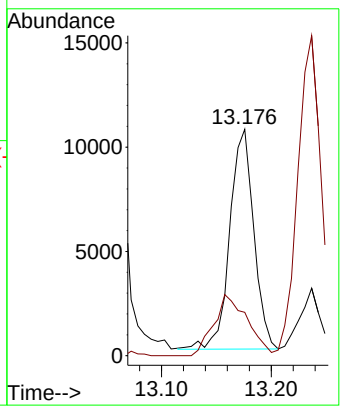


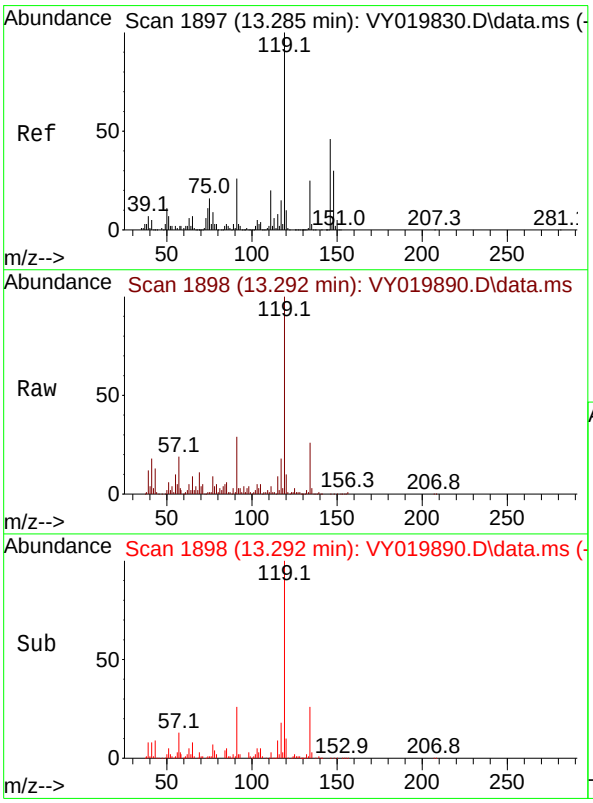
#85
sec-Butylbenzene
Concen: 1.074 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

Tgt Ion:105 Resp: 16043

Ion	Ratio	Lower	Upper
105	100		
134	38.8	10.1	30.1#

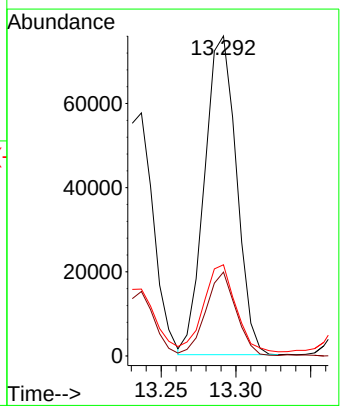




#86
p-Isopropyltoluene
Concen: 9.275 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion:119 Resp: 112455

Ion	Ratio	Lower	Upper
119	100		
134	24.7	13.1	39.3
91	27.2	10.7	32.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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: VY019890.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.879	345	354	375	rBV2	42886	140764	1.30%	0.201%
2	7.634	960	970	976	rBV	254571	608682	5.64%	0.871%
3	7.713	976	983	992	rVB	367822	847012	7.84%	1.212%
4	8.061	1032	1040	1054	rBV	258616	600980	5.57%	0.860%
5	8.616	1122	1131	1143	rBV	676567	1307252	12.11%	1.870%
6	9.109	1199	1212	1218	rBV3	56152	147723	1.37%	0.211%
7	9.884	1329	1339	1351	rBV2	52657	140520	1.30%	0.201%
8	10.103	1368	1375	1391	rBV	1096271	2011409	18.63%	2.877%
9	10.298	1398	1407	1414	rVB4	56808	135910	1.26%	0.194%
10	10.731	1468	1478	1484	rBV2	92734	161396	1.49%	0.231%
11	10.835	1484	1495	1501	rBV2	76062	234556	2.17%	0.336%
12	11.018	1520	1525	1530	rVB	109594	181477	1.68%	0.260%
13	11.207	1547	1556	1567	rVB4	120328	365523	3.39%	0.523%
14	11.310	1567	1573	1582	rBV	104365	195621	1.81%	0.280%
15	11.414	1582	1590	1601	rBV	993150	1644053	15.23%	2.352%
16	11.518	1602	1607	1611	rBV	86227	137282	1.27%	0.196%
17	11.633	1616	1626	1628	rBV5	89921	218906	2.03%	0.313%
18	11.950	1667	1678	1686	rBV3	223426	620032	5.74%	0.887%
19	12.048	1690	1694	1698	rVB	105745	151178	1.40%	0.216%
20	12.127	1698	1707	1709	rBV3	92897	186539	1.73%	0.267%
21	12.158	1709	1712	1718	rVB2	138543	232902	2.16%	0.333%
22	12.255	1722	1728	1733	rBV	312960	500830	4.64%	0.716%
23	12.408	1747	1753	1759	rBV2	717093	1191824	11.04%	1.705%
24	12.566	1775	1779	1782	rBV2	72936	120160	1.11%	0.172%
25	12.658	1787	1794	1795	rBV3	102479	160875	1.49%	0.230%
26	12.688	1795	1799	1803	rVV	412204	625839	5.80%	0.895%
27	12.731	1803	1806	1813	rVB2	256129	424159	3.93%	0.607%
28	12.895	1825	1833	1840	rBV	496811	855708	7.93%	1.224%
29	12.962	1840	1844	1851	rVV3	126152	193451	1.79%	0.277%
30	13.042	1851	1857	1862	rVV	574318	854596	7.92%	1.222%
31	13.164	1871	1877	1882	rBV7	51870	140117	1.30%	0.200%
32	13.237	1883	1889	1893	rVV2	261431	435580	4.03%	0.623%
33	13.292	1893	1898	1901	rVV	251197	386395	3.58%	0.553%
34	13.347	1901	1907	1910	rVV	709924	1151756	10.67%	1.648%
35	13.377	1910	1912	1916	rVB	305048	352017	3.26%	0.504%
36	13.511	1928	1934	1936	rBV	627905	895182	8.29%	1.280%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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	13.548	1936	1940	1943	rVV	1523262	2320656	21.49%	3.320%
38	13.584	1943	1946	1954	rVB2	764302	1276497	11.82%	1.826%
39	13.670	1955	1960	1964	rBV5	189489	314563	2.91%	0.450%
40	13.731	1964	1970	1975	rBV3	220368	437838	4.06%	0.626%
41	13.804	1978	1982	1984	rVV	212812	324208	3.00%	0.464%
42	13.834	1984	1987	1991	rVV2	333950	474718	4.40%	0.679%
43	13.889	1991	1996	2001	rVB2	1302278	1907323	17.67%	2.728%
44	13.999	2008	2014	2019	rBV	1461949	2404502	22.27%	3.439%
45	14.048	2019	2022	2029	rVB	241818	462143	4.28%	0.661%
46	14.133	2029	2036	2039	rBV2	304970	609379	5.64%	0.872%
47	14.212	2040	2049	2052	rVV2	466590	997696	9.24%	1.427%
48	14.255	2052	2056	2060	rVV	582330	817589	7.57%	1.170%
49	14.304	2060	2064	2067	rVV2	513216	696264	6.45%	0.996%
50	14.340	2067	2070	2071	rVV	141925	158003	1.46%	0.226%
51	14.365	2071	2074	2083	rVB2	365573	718120	6.65%	1.027%
52	14.480	2089	2093	2098	rBV	702864	1075582	9.96%	1.539%
53	14.529	2098	2101	2105	rVB	289361	397641	3.68%	0.569%
54	14.590	2105	2111	2117	rBV2	1186318	2460282	22.79%	3.519%
55	14.657	2117	2122	2131	rVV4	612700	1350829	12.51%	1.932%
56	14.749	2132	2137	2142	rVB	996151	1521224	14.09%	2.176%
57	14.858	2148	2155	2161	rBV2	1148340	2326518	21.55%	3.328%
58	14.968	2168	2173	2182	rBV3	386632	694514	6.43%	0.993%
59	15.145	2195	2202	2208	rVB	5145394	8524539	78.95%	12.194%
60	15.255	2214	2220	2225	rBV2	578088	1052766	9.75%	1.506%
61	15.346	2231	2235	2242	rBV7	102747	278509	2.58%	0.398%
62	15.432	2243	2249	2252	rBV3	325520	691269	6.40%	0.989%
63	15.614	2274	2279	2284	rBV4	428025	794345	7.36%	1.136%
64	15.657	2284	2286	2291	rVB	233405	330527	3.06%	0.473%
65	15.730	2291	2298	2302	rBV3	477245	1104741	10.23%	1.580%
66	15.919	2325	2329	2334	rBV5	94323	183122	1.70%	0.262%
67	16.047	2347	2350	2356	rVB3	143091	206331	1.91%	0.295%
68	16.114	2359	2361	2365	rVV3	108673	164050	1.52%	0.235%
69	16.181	2365	2372	2379	rVB	1641070	3165628	29.32%	4.528%
70	16.370	2396	2403	2414	rVB	5237689	10797043	100.00%	15.444%
71	16.474	2416	2420	2432	rVB	68262	192048	1.78%	0.275%
72	16.639	2444	2447	2454	rVB7	72581	119918	1.11%	0.172%

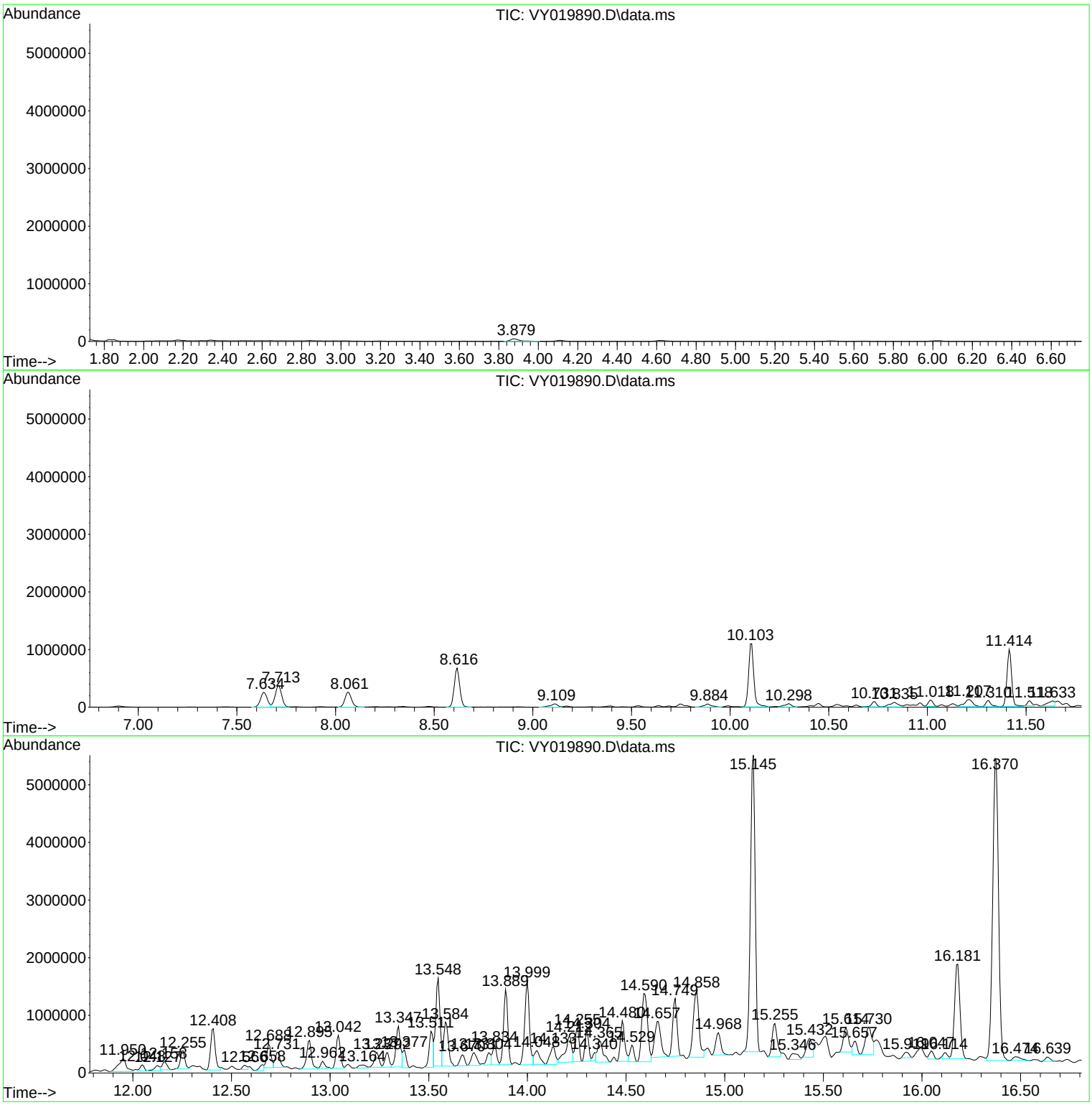
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

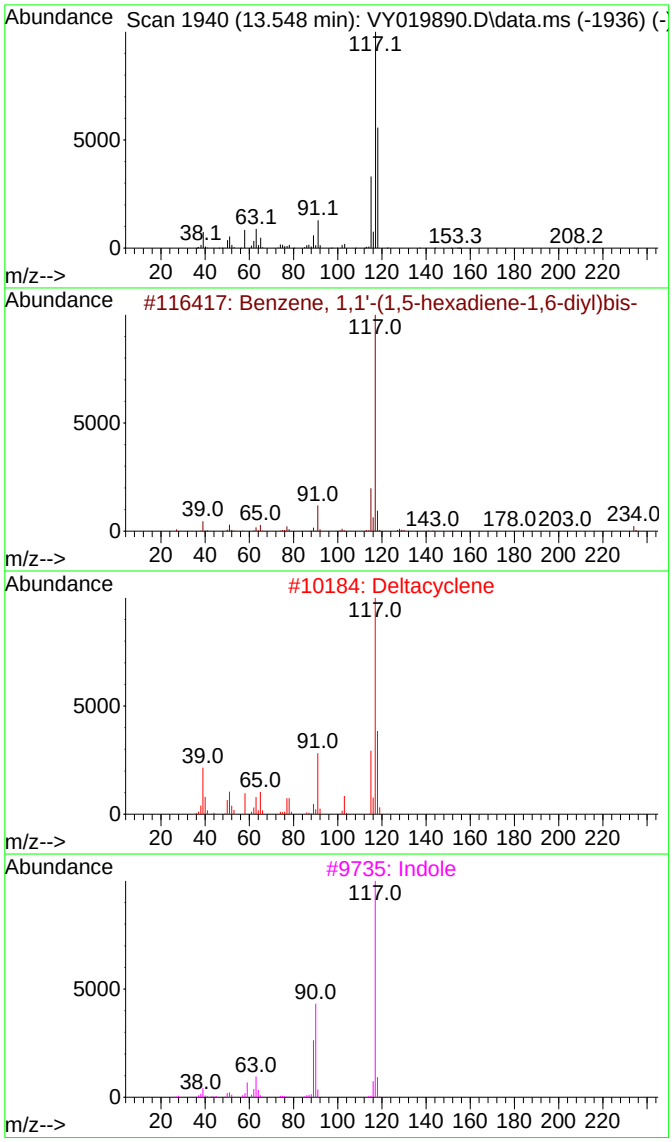
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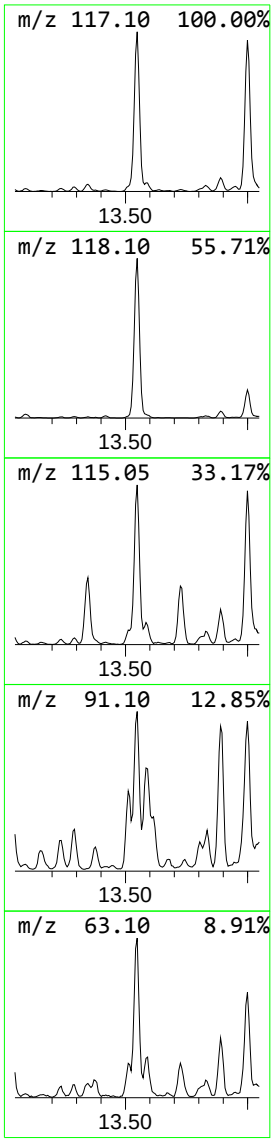
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzene, 1,1'-(1,5-hexadien... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.548	100.74 ug/l	2320660	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,1'-(1,5-hexadiene-1,6...	234	C18H18	004439-45-6	59
2	Deltacyclene	118	C9H10	007785-10-6	50
3	Indole	117	C8H7N	000120-72-9	46
4	Benzaldehyde, 4-(1-phenyl-2-prop...	238	C16H14O2	1000277-56-1	42
5	Benzene, (2-bromocyclopropyl)-	196	C9H9Br	036617-02-4	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

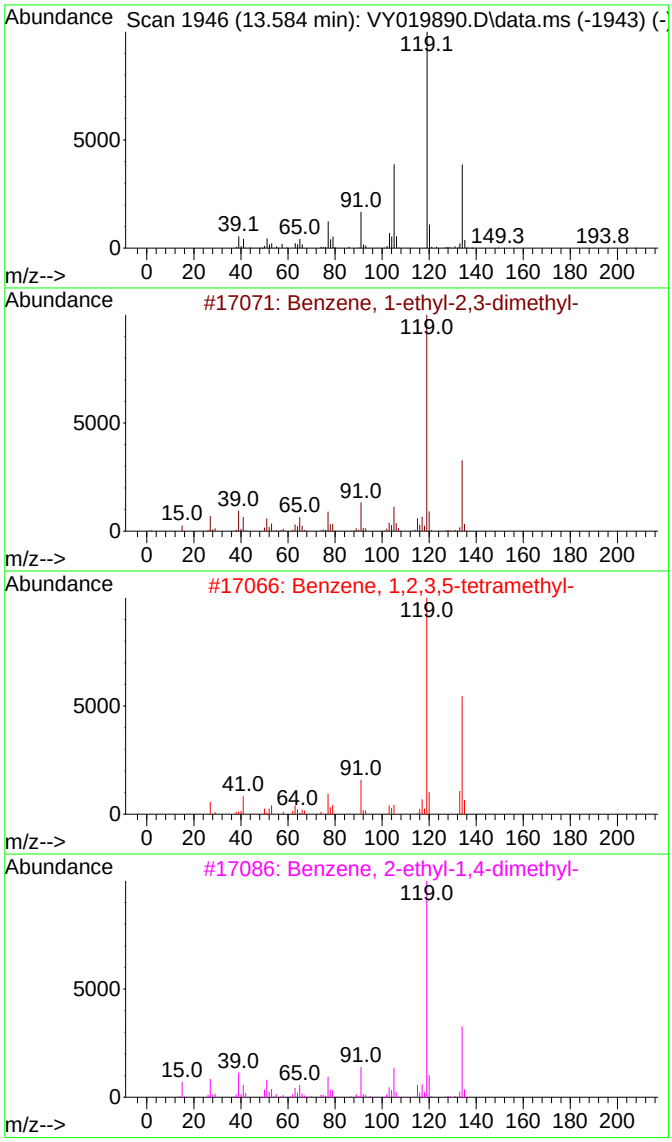
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Quant Title : SW846 8260

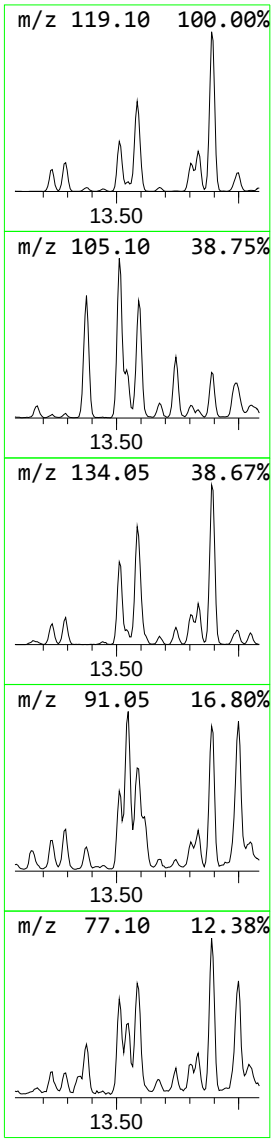
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.584	55.42 ug/l	1276500	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	90
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

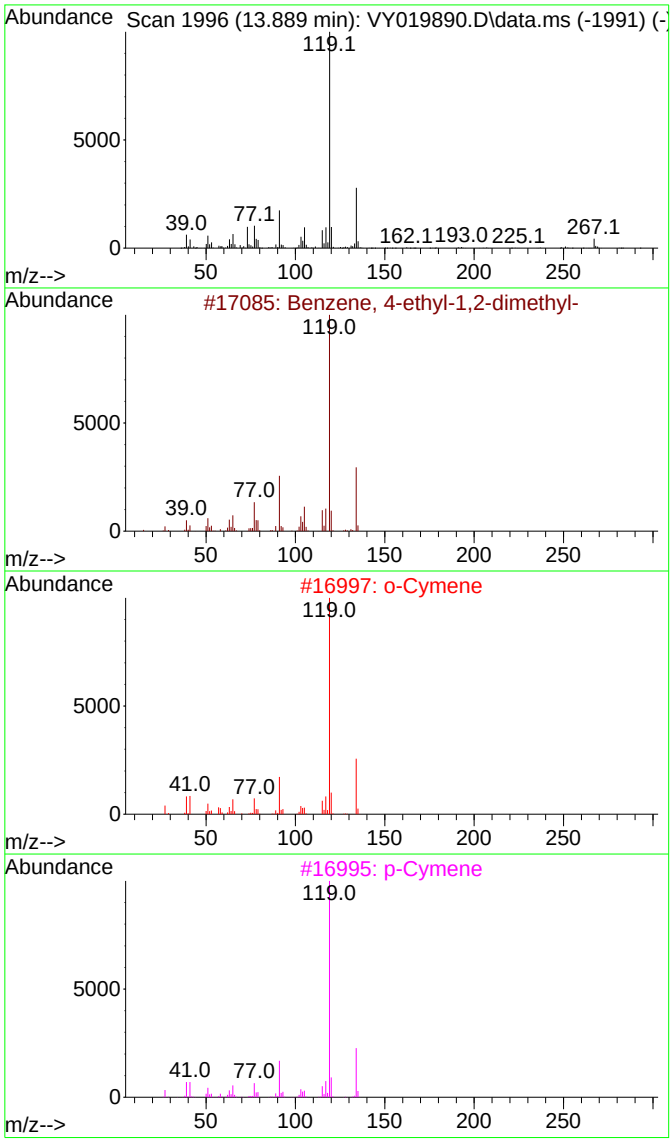
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Quant Title : SW846 8260

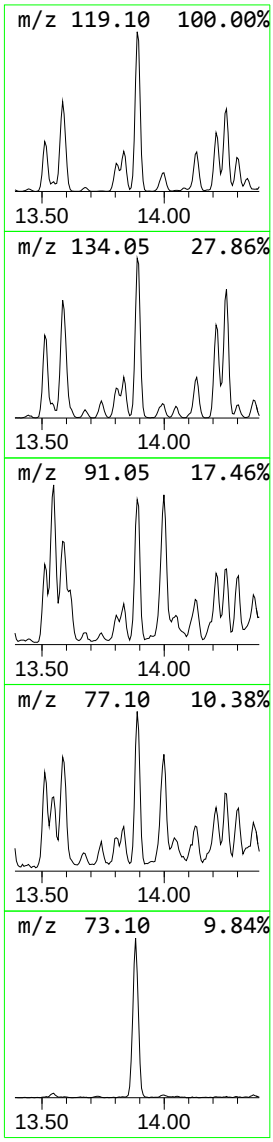
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	82.80 ug/l	1907320	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
2	o-Cymene	134	C10H14	000527-84-4	95
3	p-Cymene	134	C10H14	000099-87-6	94
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

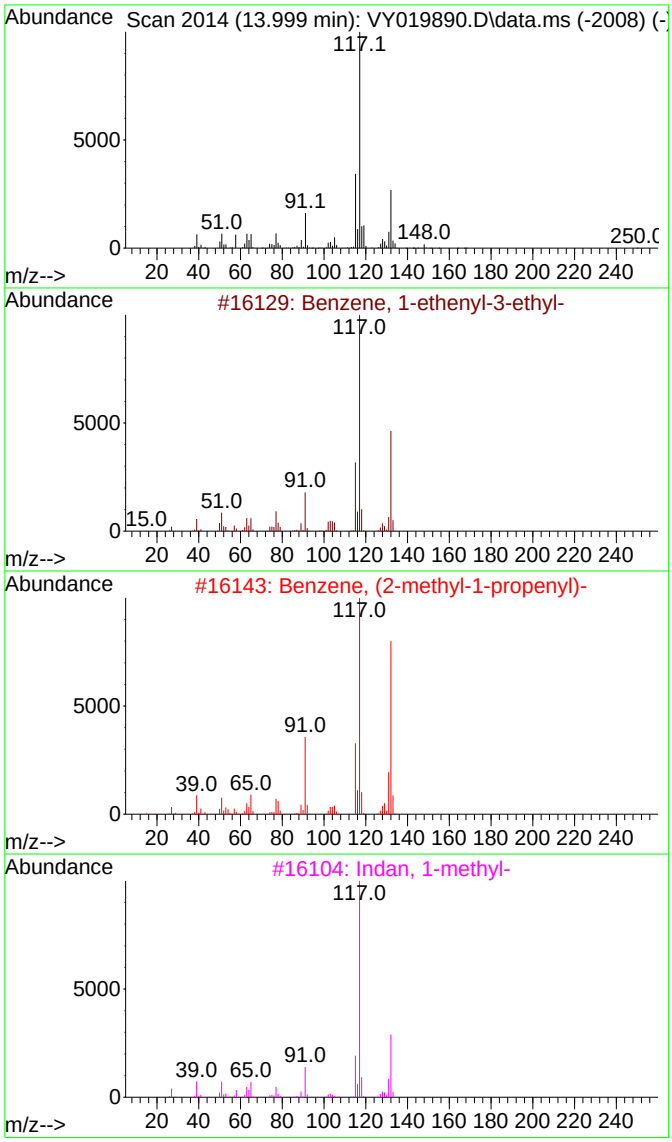
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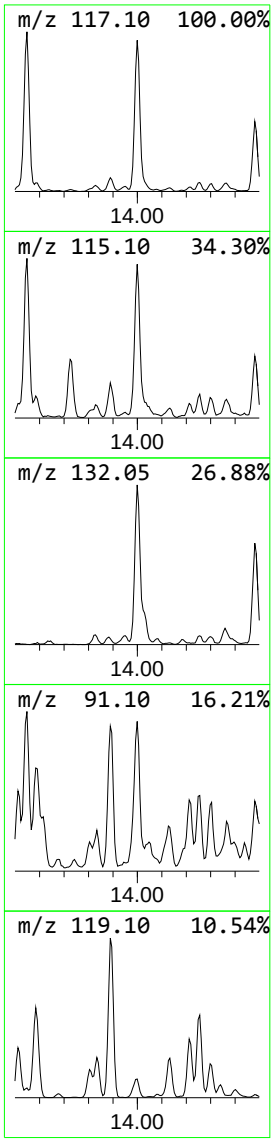
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.999	104.38 ug/l	2404500	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
2	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	87
3	Indan, 1-methyl-	132	C10H12	000767-58-8	87
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	83
5	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	83





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

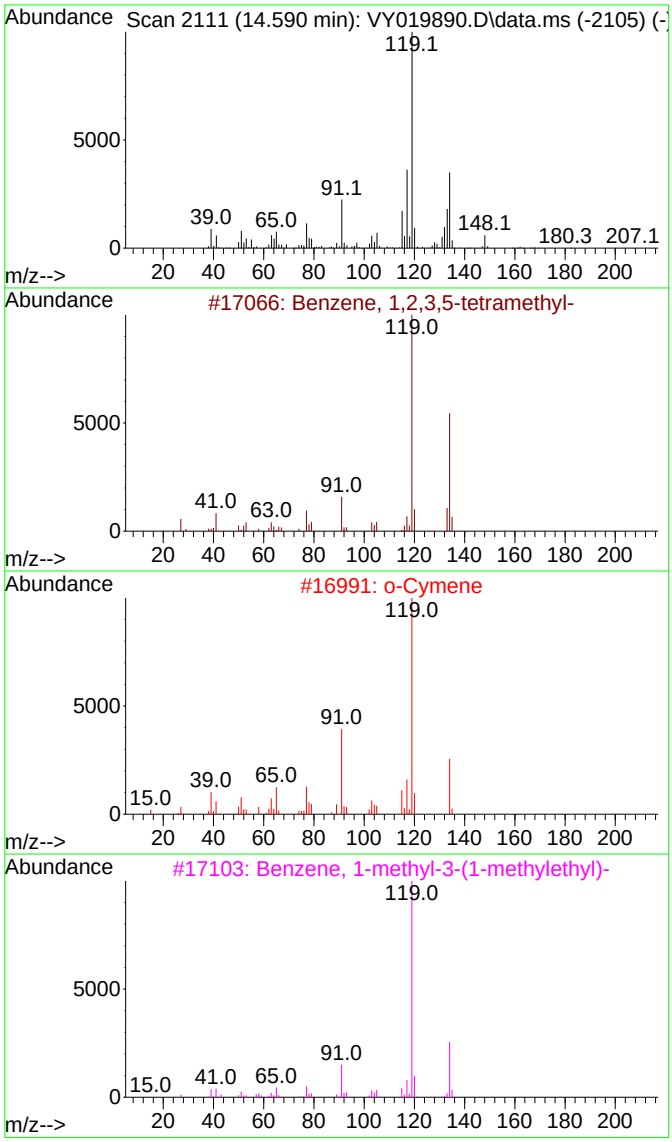
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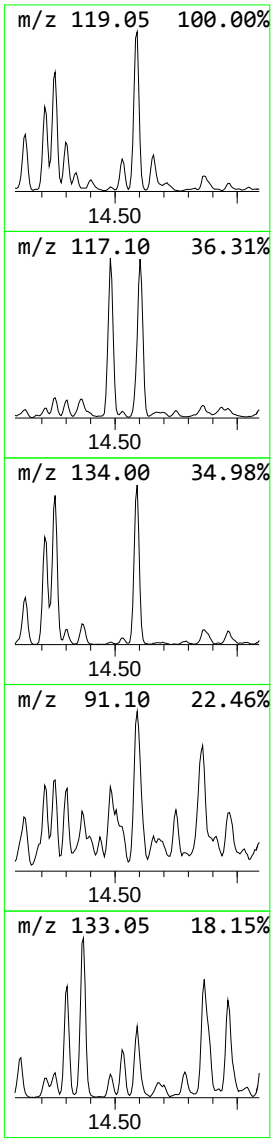
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.590	106.81 ug/l	2460280	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	76
2	o-Cymene	134	C10H14	000527-84-4	76
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	70
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	70
5	p-Cymene	134	C10H14	000099-87-6	70





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

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

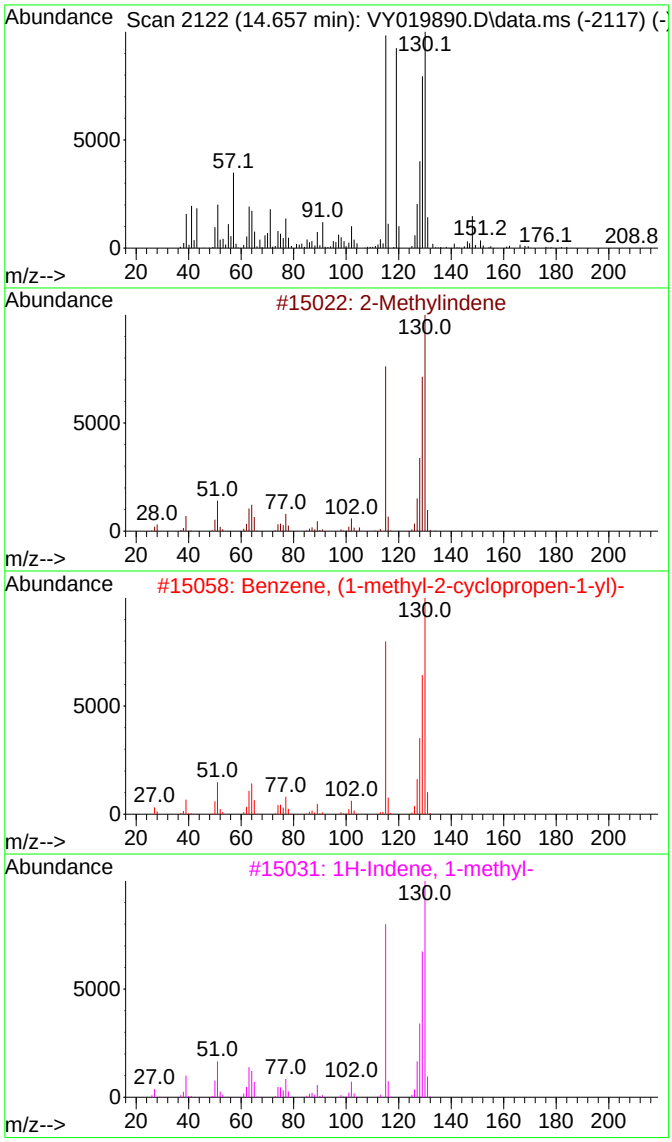
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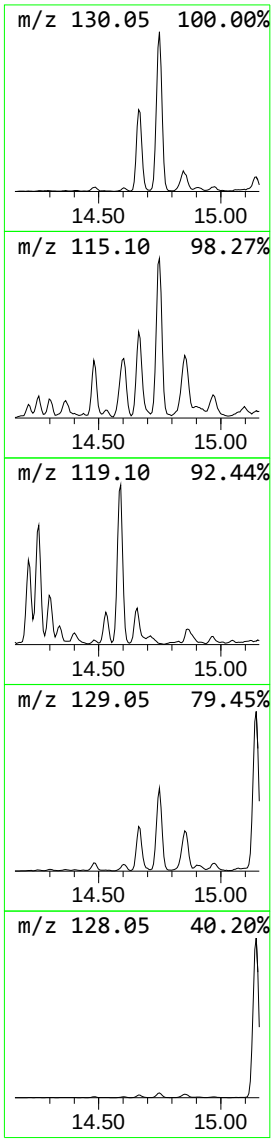
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Peak Number 6 2-Methylindene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.657	58.64 ug/l	1350830	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methylindene	130	C10H10	002177-47-1	96
2	Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	96
3	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	92
4	1H-Indene, 3-methyl-	130	C10H10	000767-60-2	91
5	Benzene,1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

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

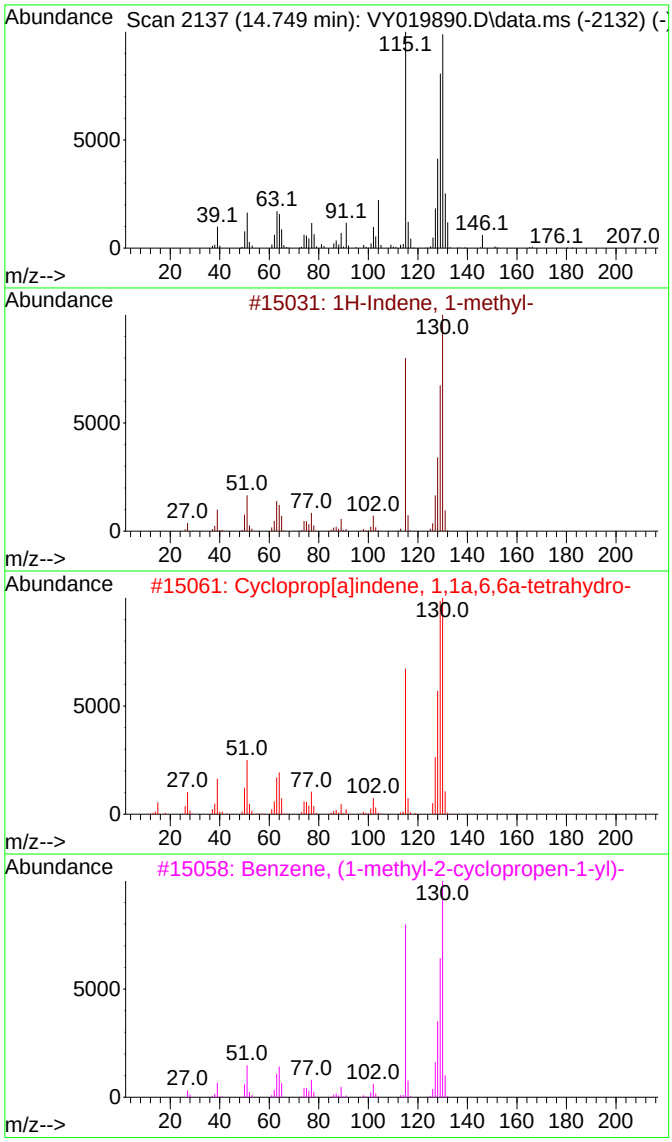
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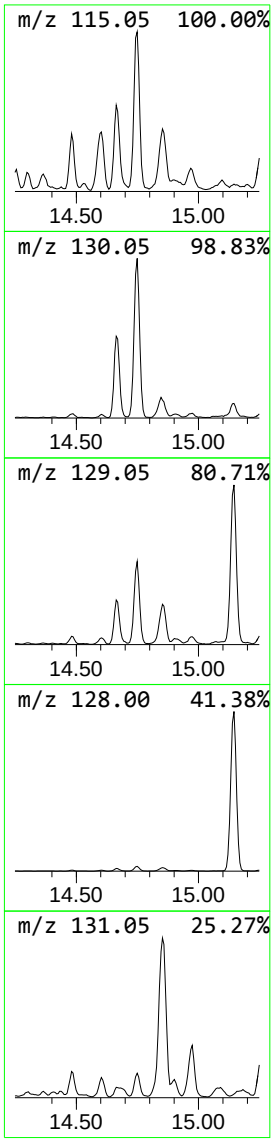
****

Peak Number 7 1H-Indene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.749	66.04 ug/l	1521220	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	96
2	Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	94
3	Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	94
4	2-Methylindene	130	C10H10	002177-47-1	94
5	Benzene,1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

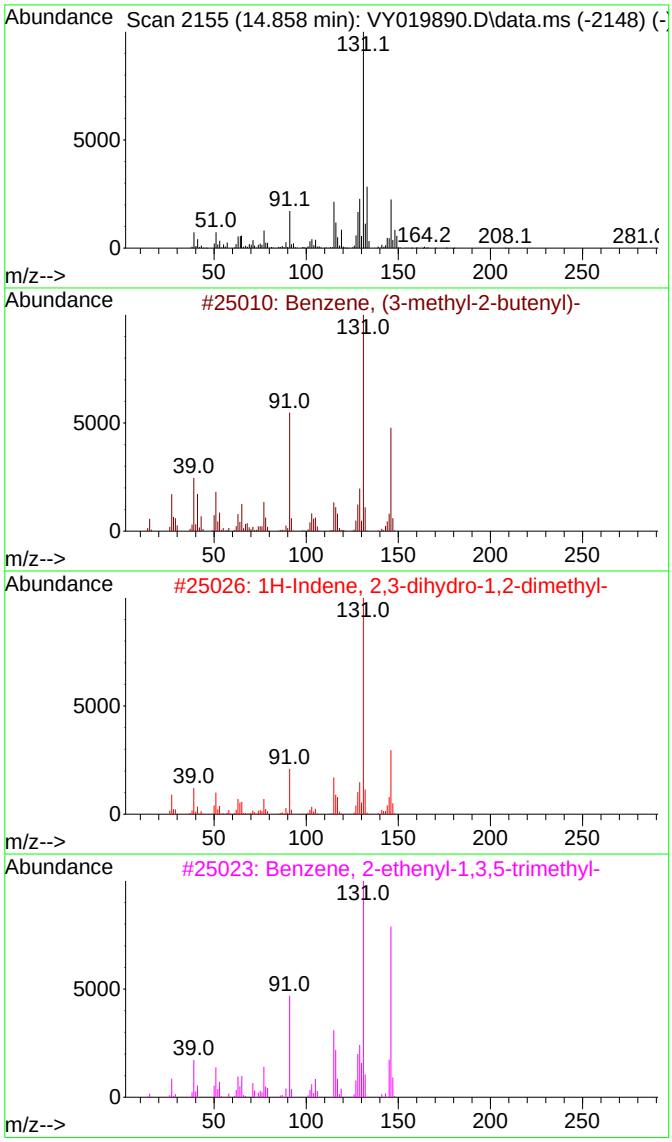
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Quant Title : SW846 8260

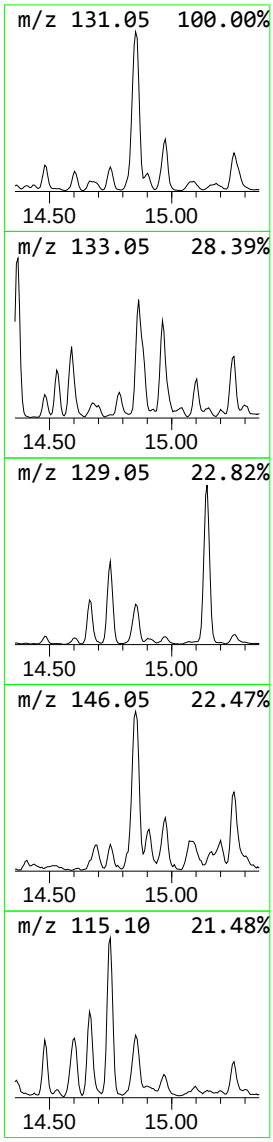
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Benzene, (3-methyl-2-butenyl)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.858	101.00 ug/l	2326520	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	90
2	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	87
3	Benzene, 2-ethenyl-1,3,5-trimethyl-	146	C11H14	000769-25-5	87
4	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	81
5	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	81





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Benzene, 1,1'-(...	13.548	100.7	ug/l	2320660	4	13.347	1151760	50.0
Benzene, 1-ethy...	13.584	55.4	ug/l	1276500	4	13.347	1151760	50.0
Benzene, 4-ethy...	13.889	82.8	ug/l	1907320	4	13.347	1151760	50.0
Benzene, 1-ethe...	13.999	104.4	ug/l	2404500	4	13.347	1151760	50.0
Benzene, 1,2,3,...	14.590	106.8	ug/l	2460280	4	13.347	1151760	50.0
2-Methylindene	14.657	58.6	ug/l	1350830	4	13.347	1151760	50.0
1H-Indene, 1-me...	14.749	66.0	ug/l	1521220	4	13.347	1151760	50.0
Benzene, (3-met...	14.858	101.0	ug/l	2326520	4	13.347	1151760	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

Quant Time: Oct 15 01:36:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

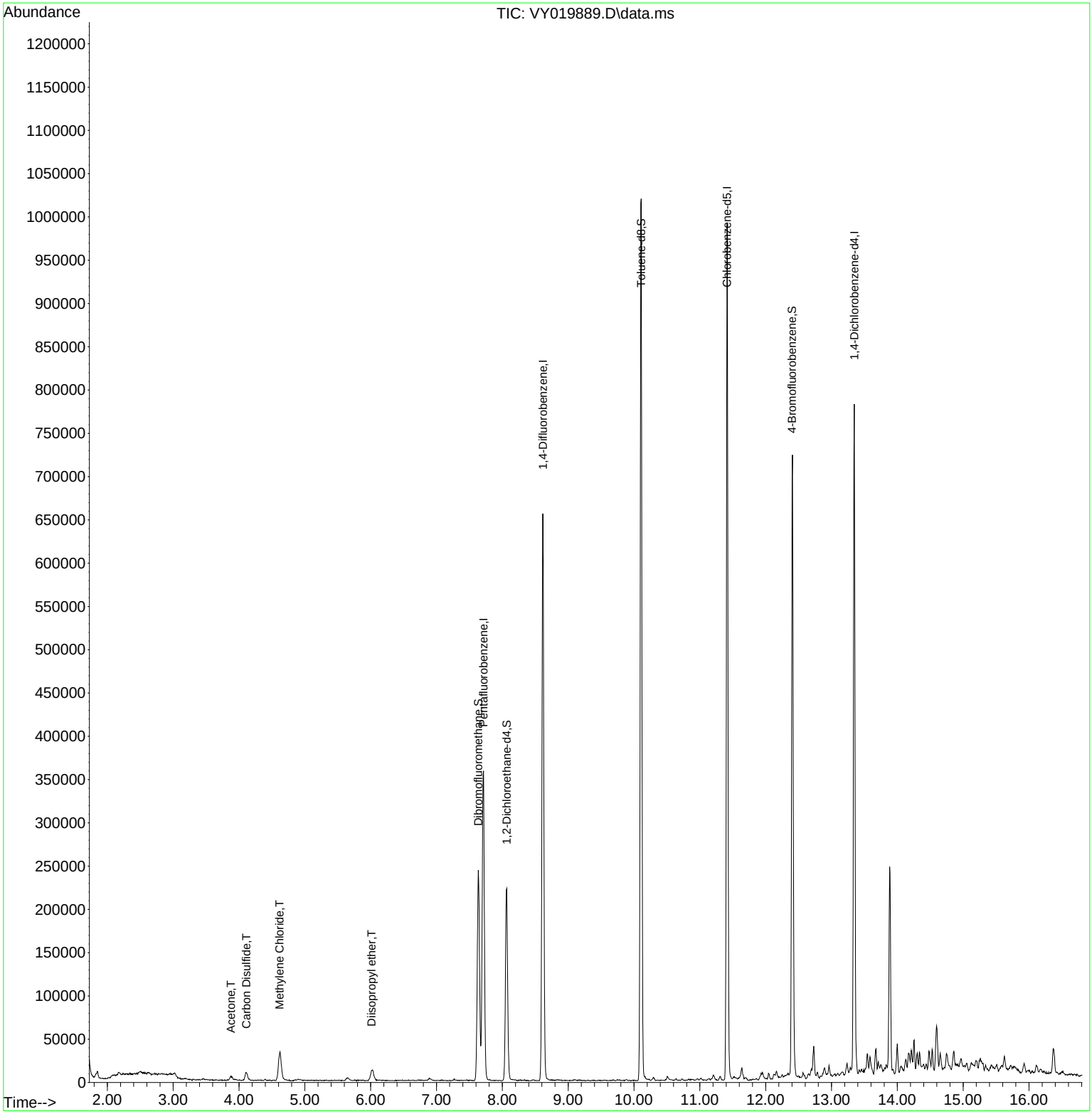
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	252165	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	523891	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	471714	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	175128	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	177217	57.077	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.160%			
35) Dibromofluoromethane	7.634	113	171944	49.736	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.480%			
50) Toluene-d8	10.109	98	640644	50.181	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.360%			
62) 4-Bromofluorobenzene	12.402	95	203661	44.150	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 88.300%			
Target Compounds						Qvalue
16) Acetone	3.879	43	8479	10.491	ug/l #	73
17) Carbon Disulfide	4.110	76	17568	2.423	ug/l	95
20) Methylene Chloride	4.616	84	23306	7.112	ug/l #	84
22) Diisopropyl ether	6.012	45	16618	1.563	ug/l #	84

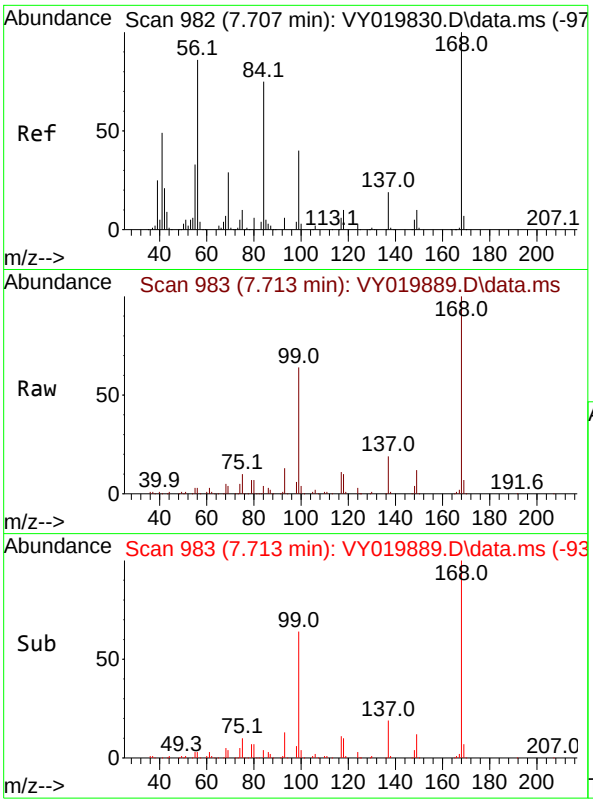
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

Quant Time: Oct 15 01:36:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration



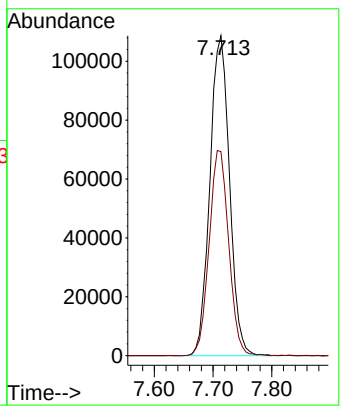


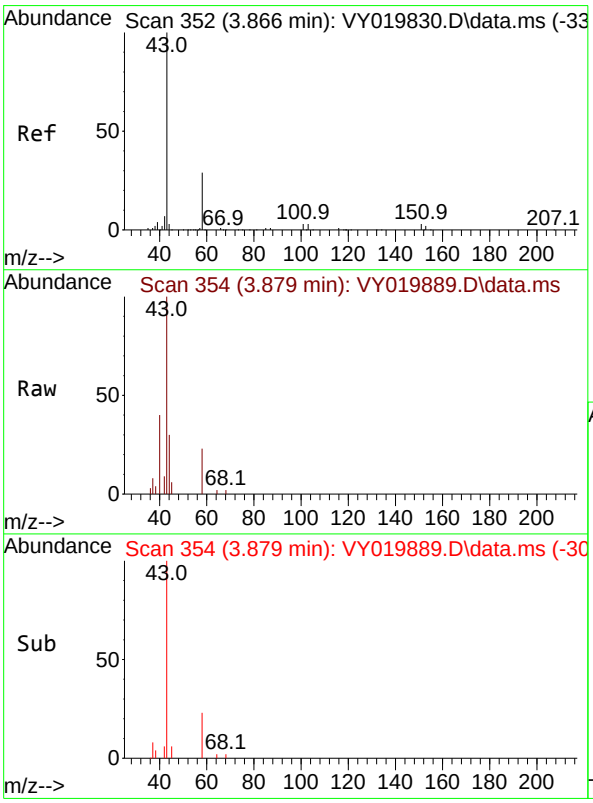
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

Tgt Ion:168 Resp: 252165

Ion	Ratio	Lower	Upper
168	100		
99	63.8	39.1	58.7#

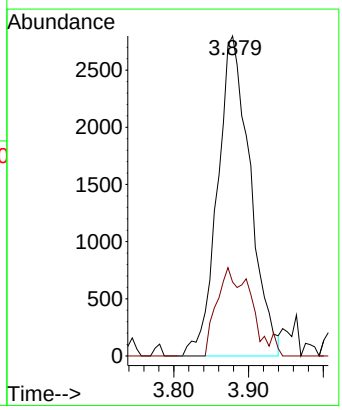


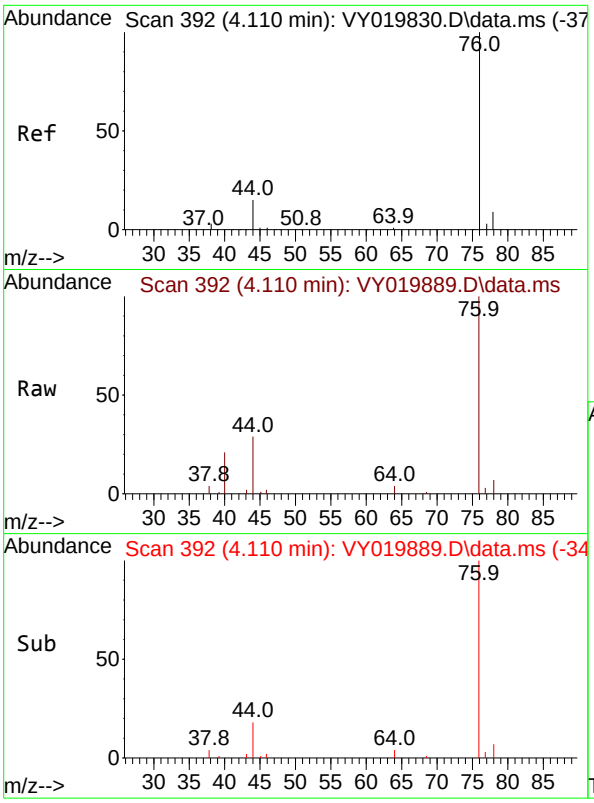


#16
Acetone
Concen: 10.491 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Tgt Ion: 43 Resp: 8479

Ion	Ratio	Lower	Upper
43	100		
58	23.1	31.7	47.5#



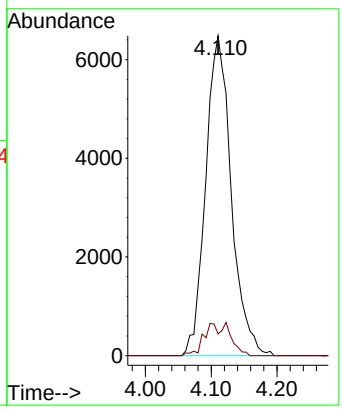


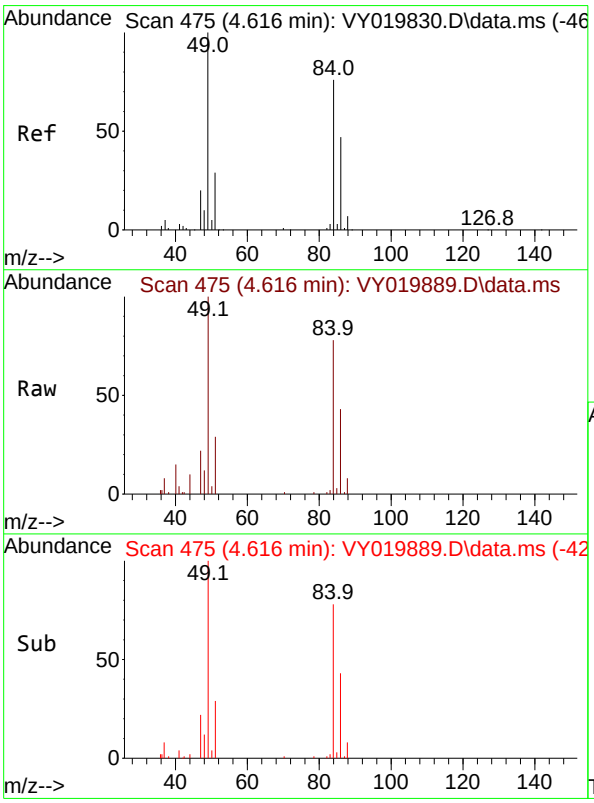
#17
Carbon Disulfide
Concen: 2.423 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

Tgt Ion: 76 Resp: 17568

Ion	Ratio	Lower	Upper
76	100		
78	6.8	6.8	10.2

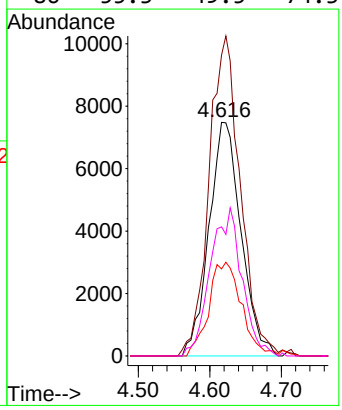


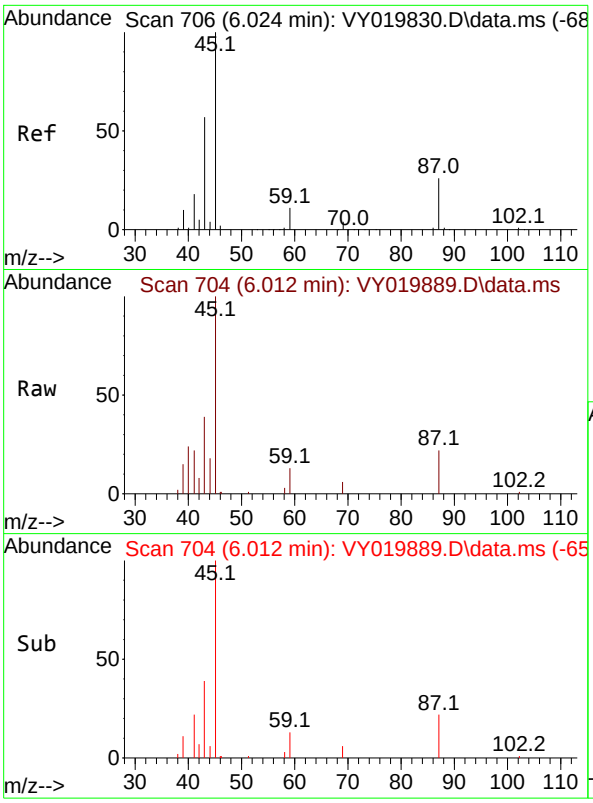


#20
Methylene Chloride
Concen: 7.112 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Tgt Ion: 84 Resp: 23306

Ion	Ratio	Lower	Upper
84	100		
49	128.8	84.4	126.6#
51	37.2	26.0	39.0
86	55.3	49.5	74.3



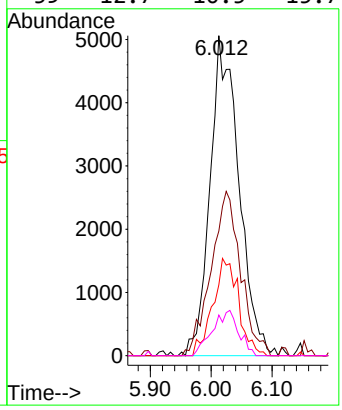


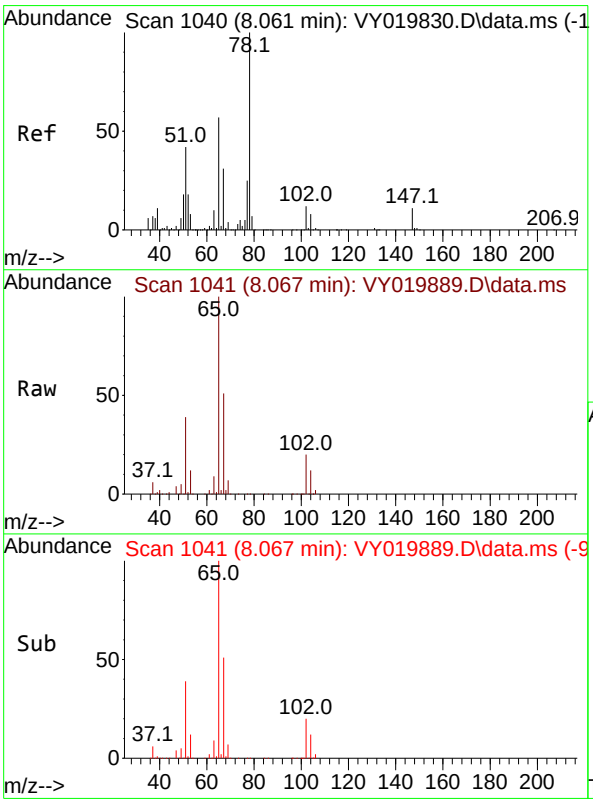
#22
Diisopropyl ether
Concen: 1.563 ug/l
RT: 6.012 min Scan# 7
Delta R.T. -0.006 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

Tgt Ion: 45 Resp: 16618

Ion	Ratio	Lower	Upper
45	100		
43	39.0	42.2	63.2#
87	22.2	25.0	37.6#
59	12.7	10.5	15.7

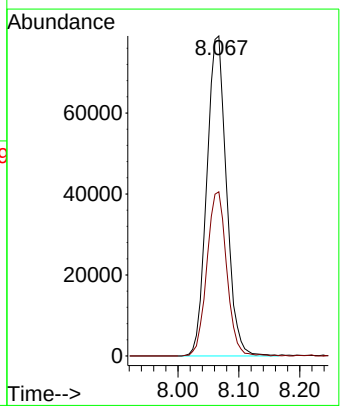


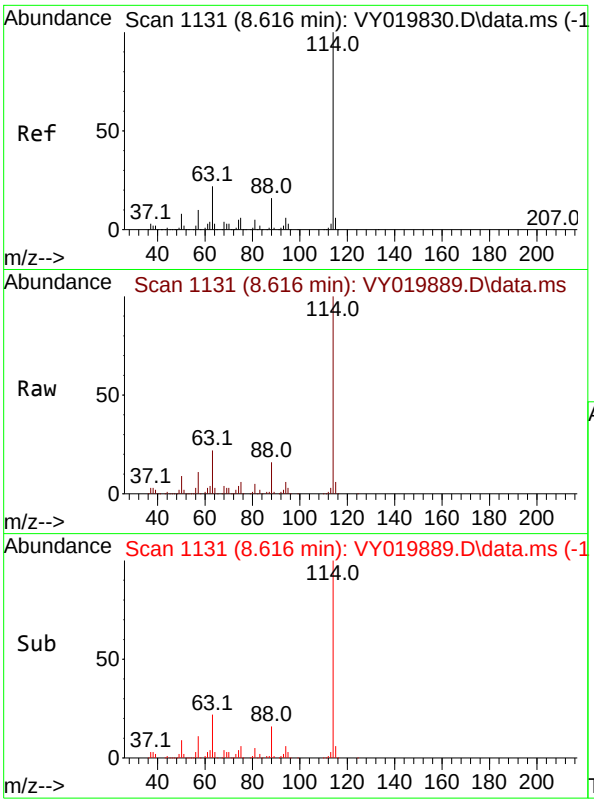


#33
1,2-Dichloroethane-d4
Concen: 57.077 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Tgt Ion: 65 Resp: 177217

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	109.6



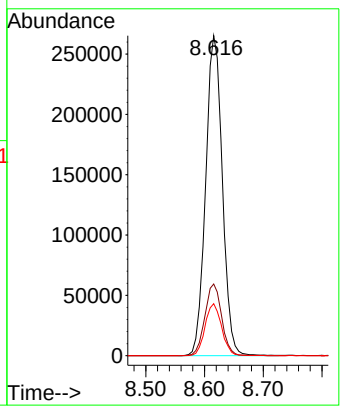


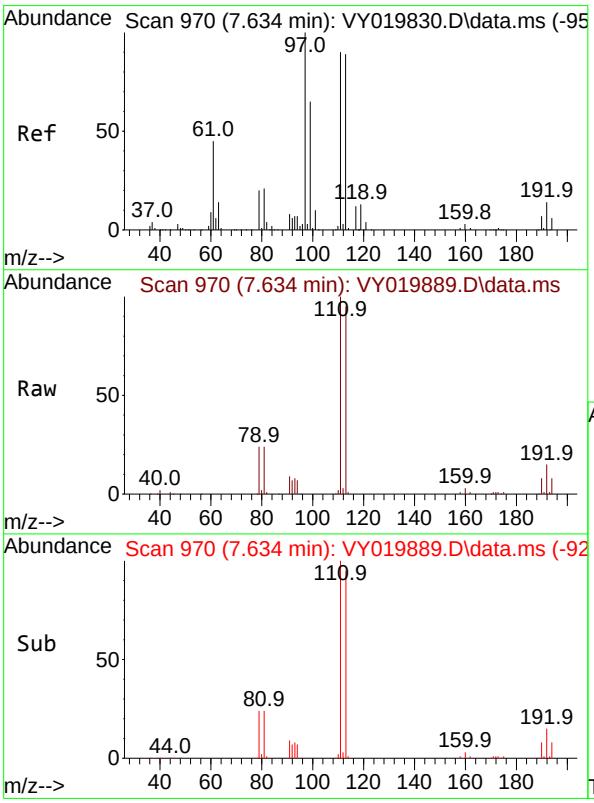
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

Tgt Ion:114 Resp: 523891

Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	35.0
88	16.3	0.0	27.2

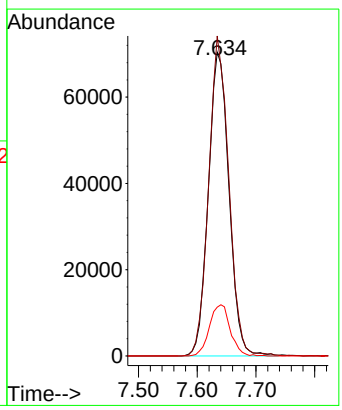


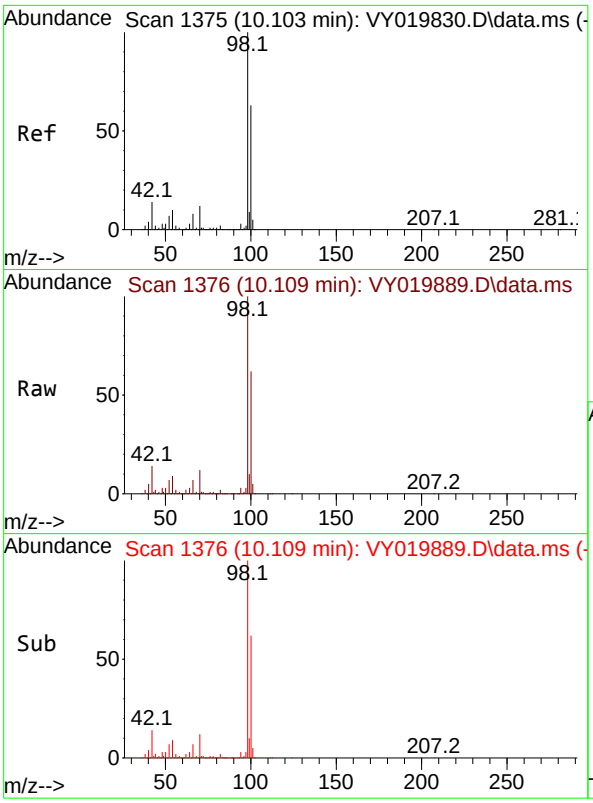


#35
Dibromofluoromethane
Concen: 49.736 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Tgt Ion:113 Resp: 171944

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.4
192	17.0	15.9	23.9



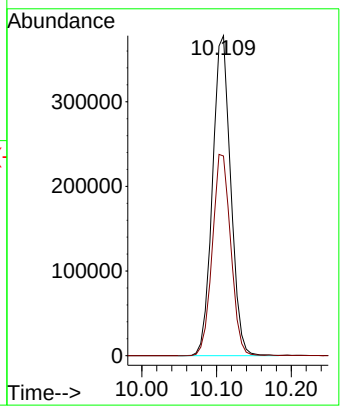


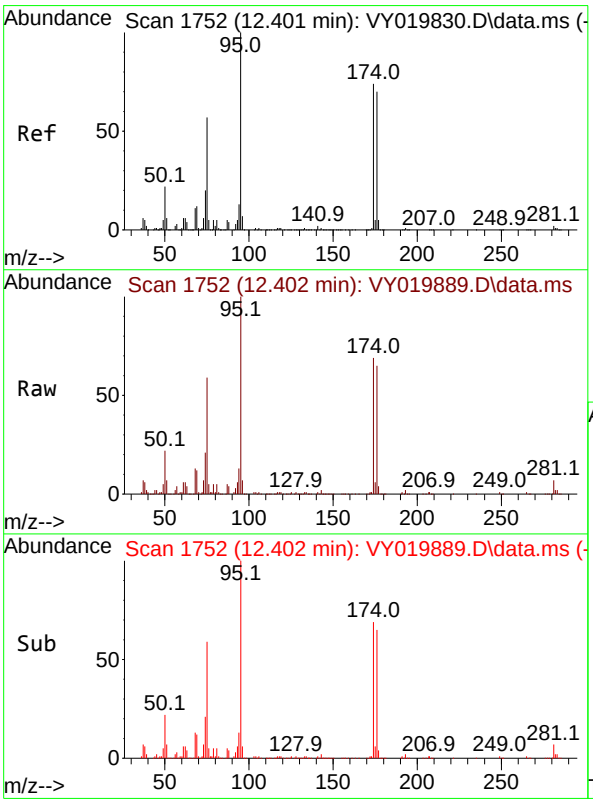
#50
Toluene-d8
Concen: 50.181 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

Tgt Ion: 98 Resp: 640644

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.0	78.0

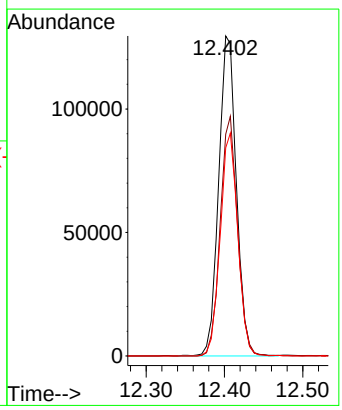


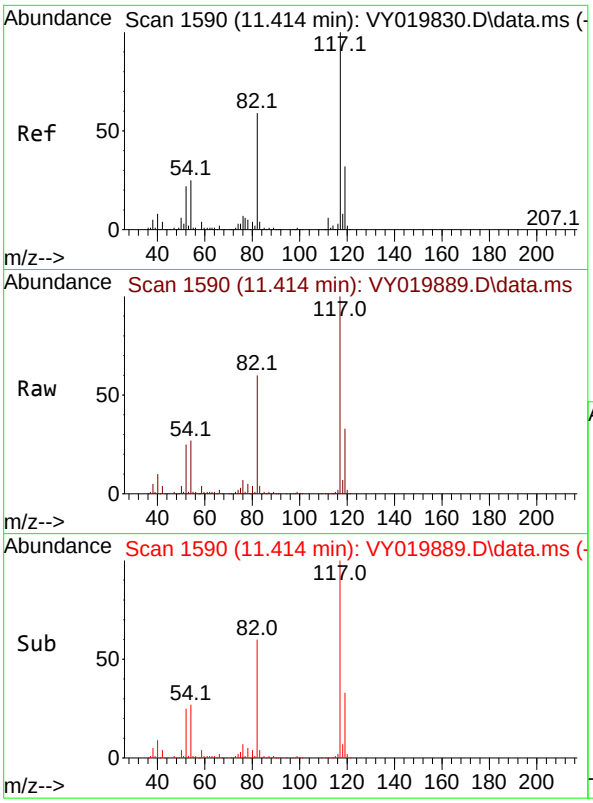


#62
4-Bromofluorobenzene
Concen: 44.150 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Tgt Ion: 95 Resp: 203661

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	175.6
176	69.2	0.0	171.4



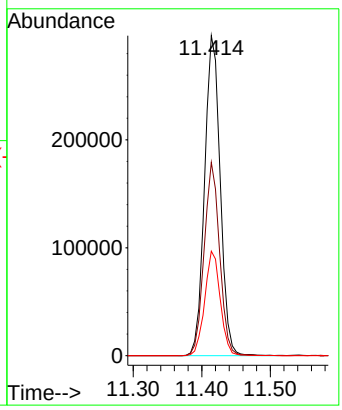


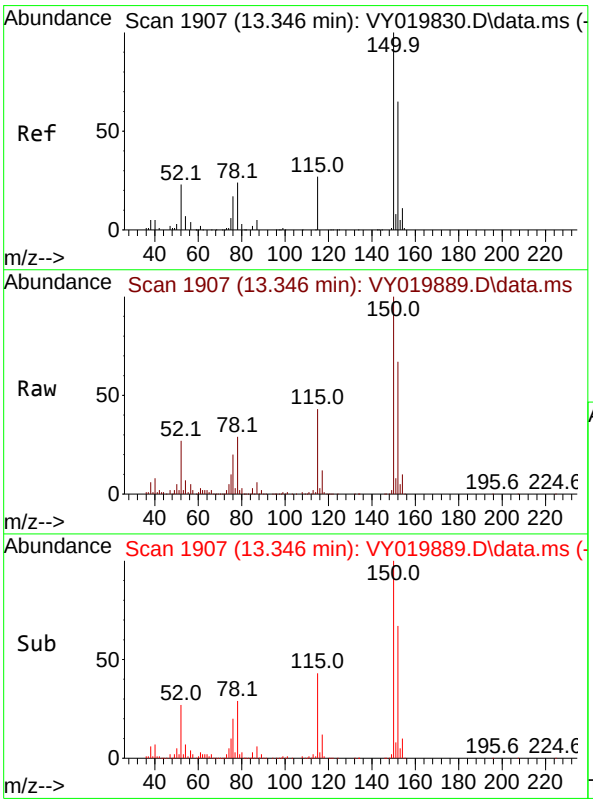
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

Tgt Ion:117 Resp: 471714

Ion	Ratio	Lower	Upper
117	100		
82	60.4	42.4	63.6
119	32.7	25.9	38.9

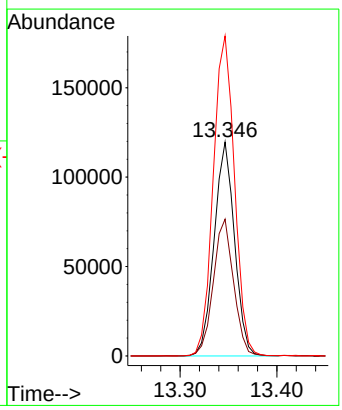




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Tgt Ion:152 Resp: 175128

Ion	Ratio	Lower	Upper
152	100		
115	64.0	28.2	84.7
150	155.7	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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: VY019889.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.849	13	21	27	rVB4	7931	18666	1.05%	0.176%
2	4.104	380	391	398	rBV2	9310	25579	1.44%	0.242%
3	4.622	465	476	488	rBV2	33035	103989	5.87%	0.982%
4	6.031	696	707	717	rBV5	12448	44109	2.49%	0.417%
5	7.634	960	970	976	rBV2	243196	580994	32.81%	5.487%
6	7.713	976	983	993	rVB	356764	828994	46.82%	7.829%
7	8.067	1027	1041	1055	rBV	222332	511558	28.89%	4.831%
8	8.616	1122	1131	1148	rBV	655319	1296812	73.24%	12.247%
9	10.109	1366	1376	1385	rBV	1018999	1770641	100.00%	16.722%
10	11.414	1583	1590	1602	rBV	989040	1577329	89.08%	14.897%
11	11.639	1616	1627	1632	rBV9	12774	27969	1.58%	0.264%
12	12.408	1744	1753	1766	rVB2	718518	1240125	70.04%	11.712%
13	12.731	1801	1806	1812	rVV4	37317	68665	3.88%	0.648%
14	12.895	1826	1833	1837	rBV6	9657	20283	1.15%	0.192%
15	13.237	1883	1889	1893	rBV8	13293	24641	1.39%	0.233%
16	13.346	1900	1907	1916	rVB	773448	1204957	68.05%	11.380%
17	13.548	1931	1940	1943	rBV3	21392	40051	2.26%	0.378%
18	13.584	1943	1946	1955	rVB3	19769	38772	2.19%	0.366%
19	13.676	1955	1961	1964	rBV3	29126	52018	2.94%	0.491%
20	13.883	1989	1995	2001	rVB3	235564	396055	22.37%	3.740%
21	13.999	2008	2014	2019	rBV	34756	53414	3.02%	0.504%
22	14.060	2019	2024	2030	rVV9	7451	18469	1.04%	0.174%
23	14.127	2030	2035	2039	rVV4	13779	25880	1.46%	0.244%
24	14.176	2039	2043	2046	rVV6	19854	37397	2.11%	0.353%
25	14.212	2046	2049	2052	rVV	22149	33701	1.90%	0.318%
26	14.255	2052	2056	2060	rVB	33081	46210	2.61%	0.436%
27	14.304	2060	2064	2067	rBV5	18134	26857	1.52%	0.254%
28	14.334	2067	2069	2075	rVB3	17186	21703	1.23%	0.205%
29	14.480	2089	2093	2098	rBV4	21067	36390	2.06%	0.344%
30	14.529	2098	2101	2106	rVB7	24002	32402	1.83%	0.306%
31	14.596	2106	2112	2117	rBV4	51214	106025	5.99%	1.001%
32	14.651	2117	2121	2126	rVB7	18486	31769	1.79%	0.300%
33	14.749	2132	2137	2143	rBV8	16743	32645	1.84%	0.308%
34	14.858	2149	2155	2159	rBV5	21238	42559	2.40%	0.402%
35	15.127	2194	2199	2207	rBV10	7941	24548	1.39%	0.232%
36	15.261	2216	2221	2223	rBV6	11047	20399	1.15%	0.193%

Sample Results: **VY019889.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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

37	15.590	2266	2275	2277	rBV10	7039	17854	1.01%	0.169%
38	15.627	2277	2281	2287	rVB7	14929	26538	1.50%	0.251%
39	15.925	2325	2330	2335	rVB8	10263	19526	1.10%	0.184%
40	16.370	2397	2403	2410	rBV3	28395	61985	3.50%	0.585%

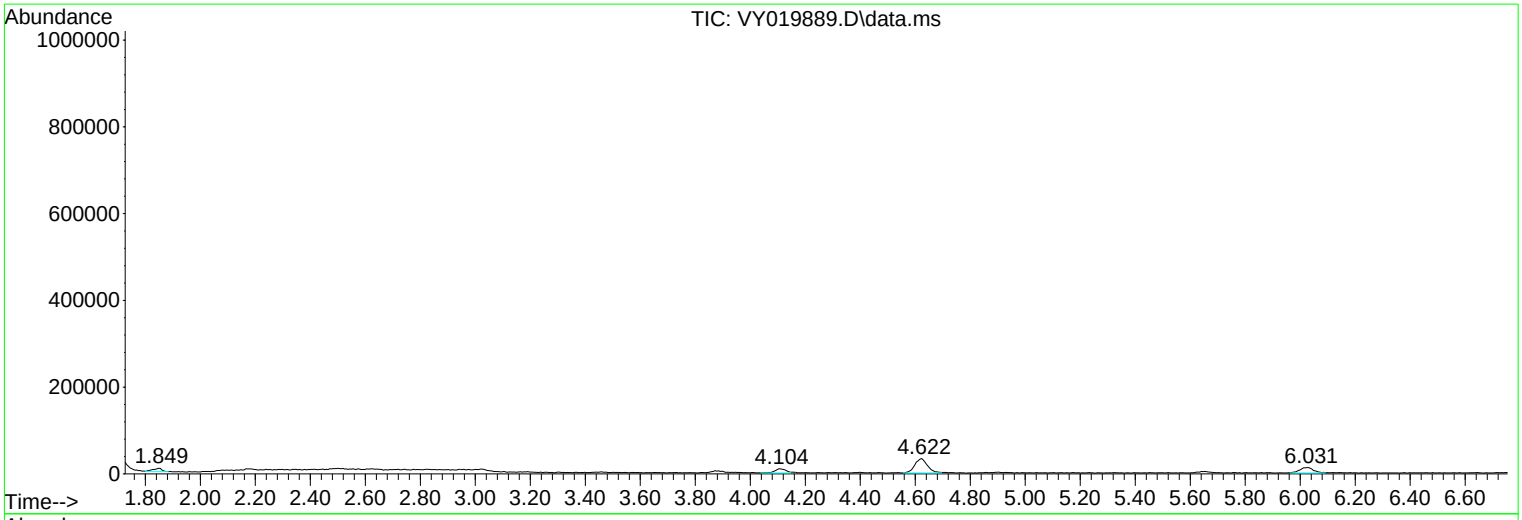
Sum of corrected areas: 10588478

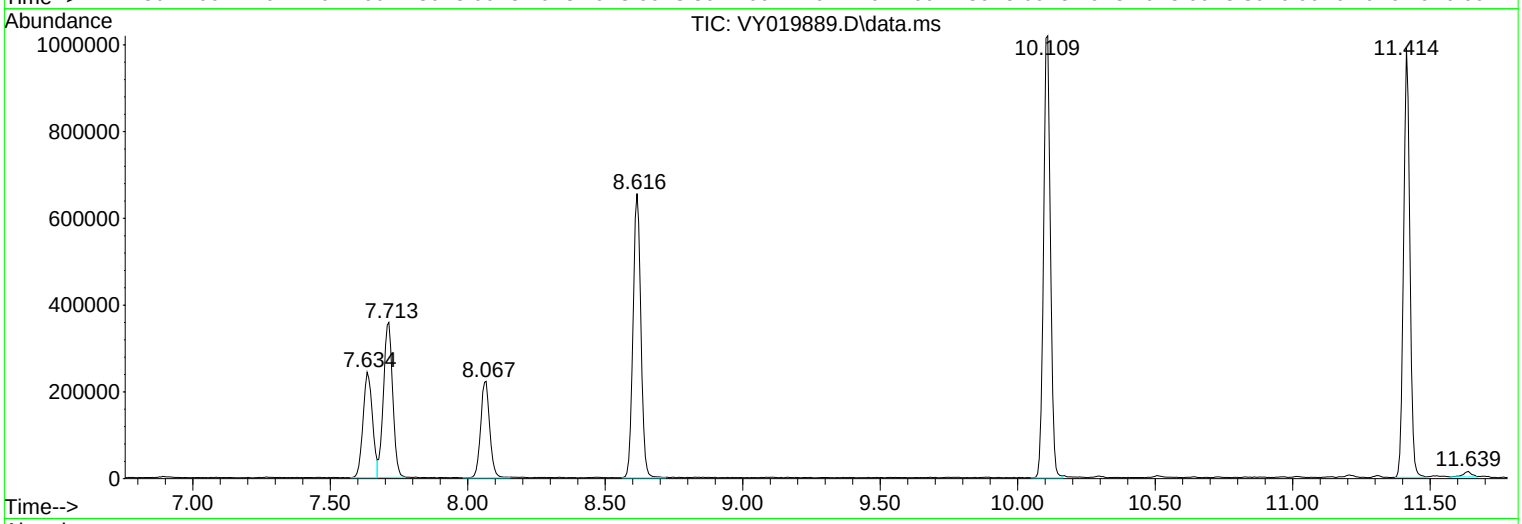
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

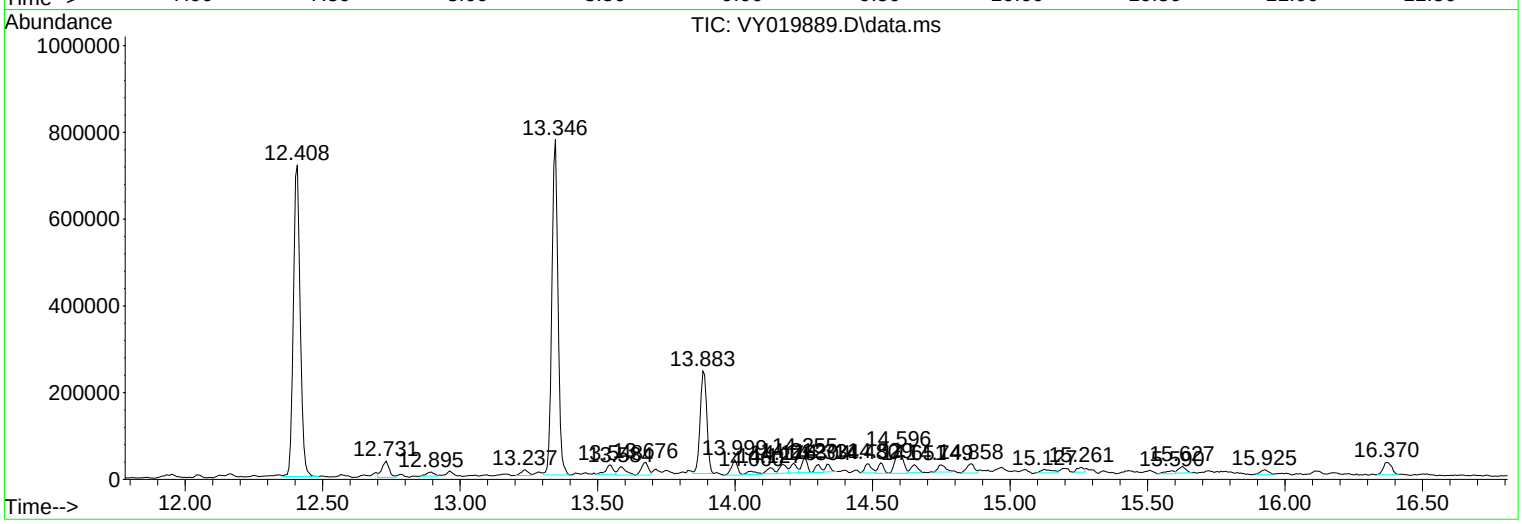
Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043400.D
Acq On : 15 Oct 2024 13:09
Operator : JC/MD
Sample : P4397-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Quant Time: Oct 16 01:54:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

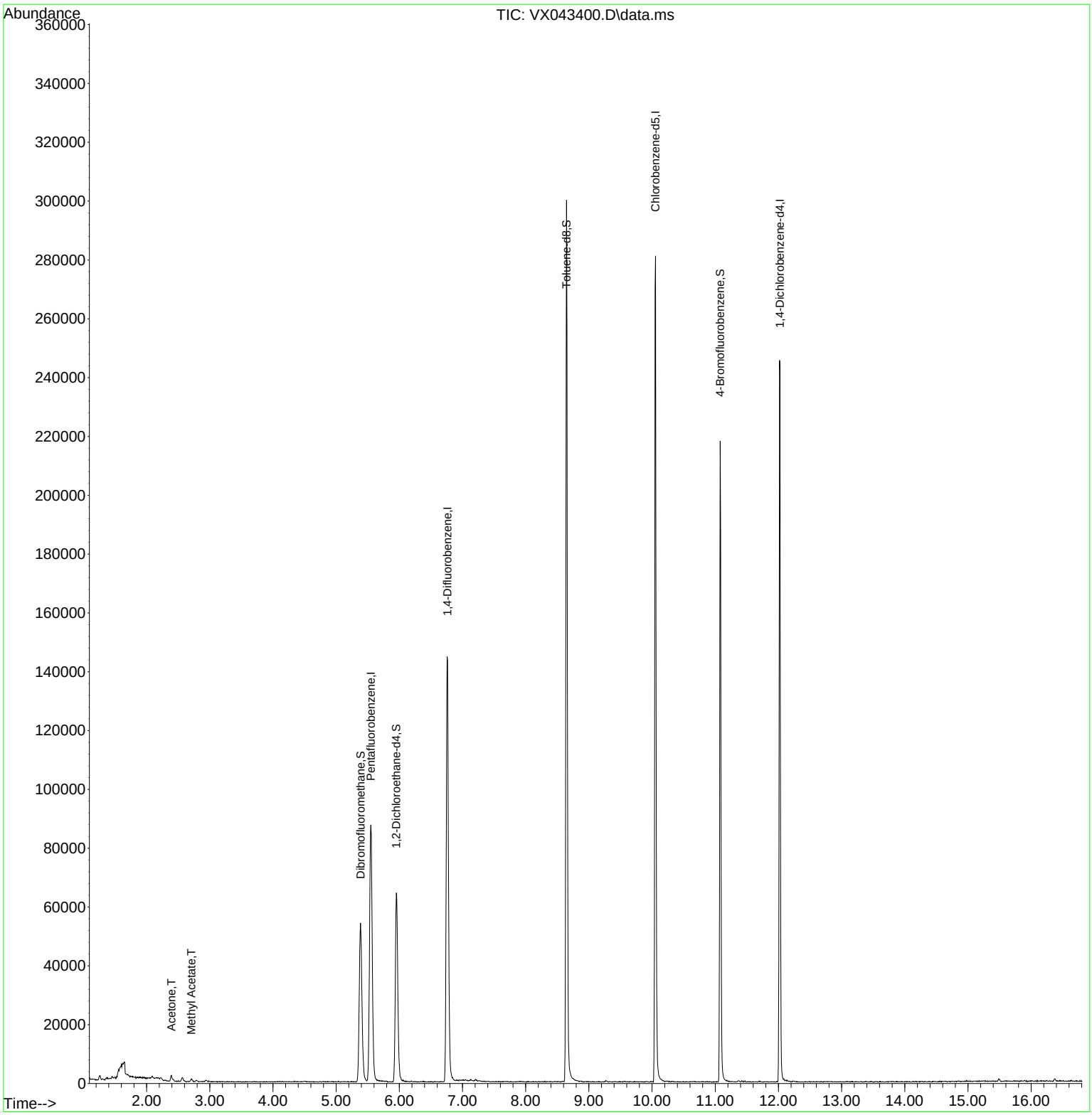
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	80908	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	148484	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	126066	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	50389	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66434	50.277	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.560%			
35) Dibromofluoromethane	5.385	113	48941	47.794	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.580%			
50) Toluene-d8	8.647	98	176310	49.684	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.360%			
62) 4-Bromofluorobenzene	11.079	95	61059	47.362	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.720%			
Target Compounds						Qvalue
16) Acetone	2.392	43	2387	4.326	ug/l	99
18) Methyl Acetate	2.709	43	1022	0.738	ug/l #	89

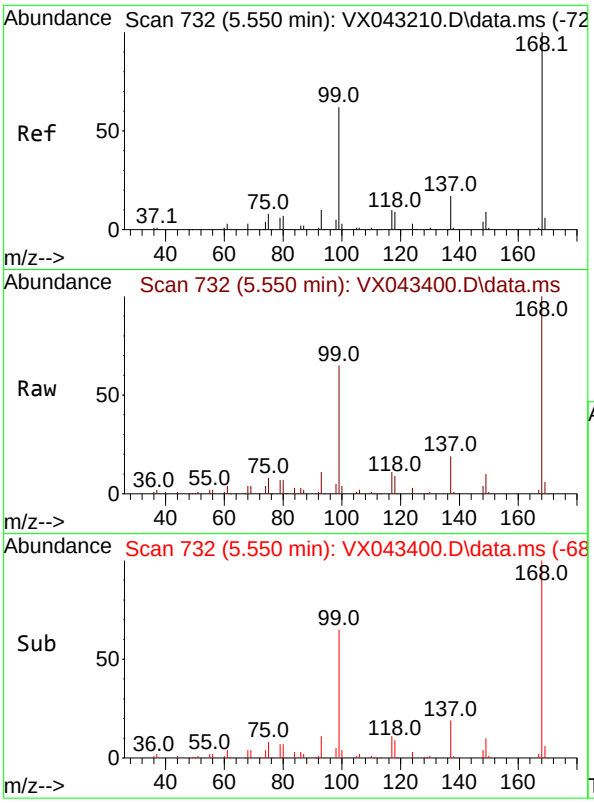
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043400.D
Acq On : 15 Oct 2024 13:09
Operator : JC/MD
Sample : P4397-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Quant Time: Oct 16 01:54:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration



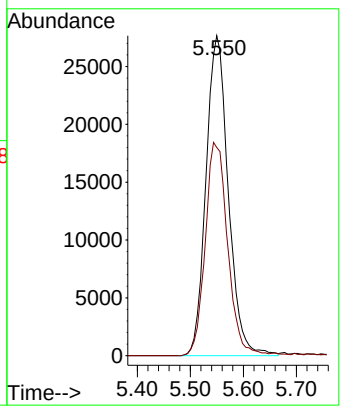


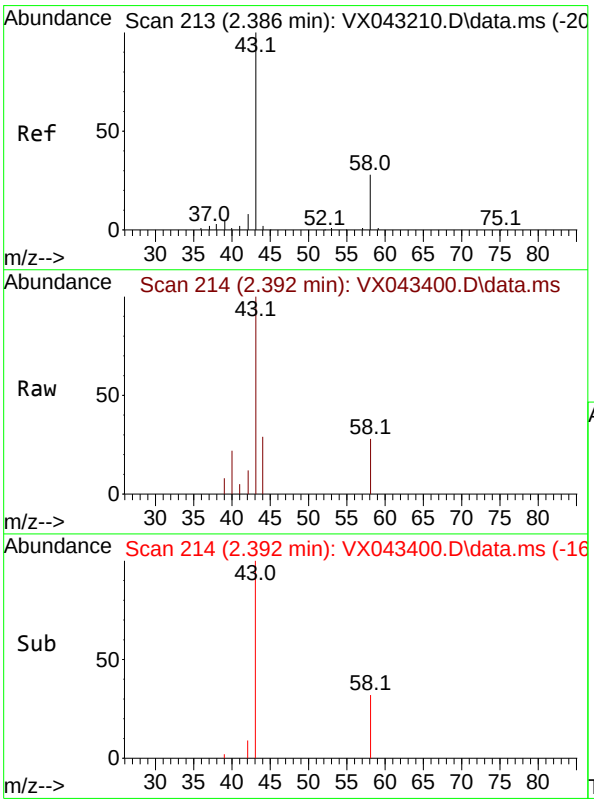
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Tgt Ion:168 Resp: 80908

Ion	Ratio	Lower	Upper
168	100		
99	65.1	49.7	74.5

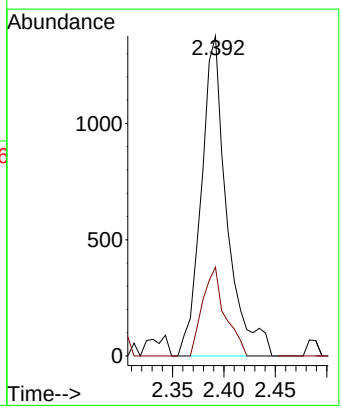


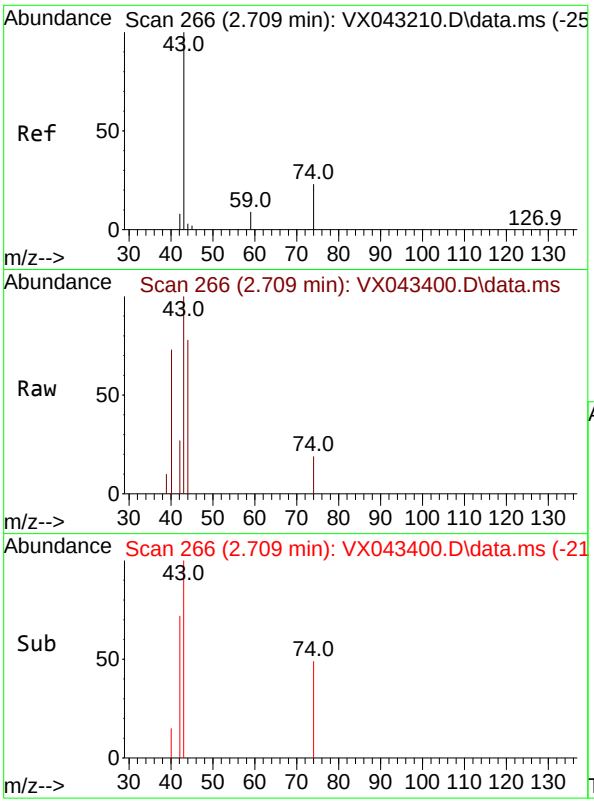


#16
Acetone
Concen: 4.326 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

Tgt Ion: 43 Resp: 2387

Ion	Ratio	Lower	Upper
43	100		
58	27.8	22.6	33.8



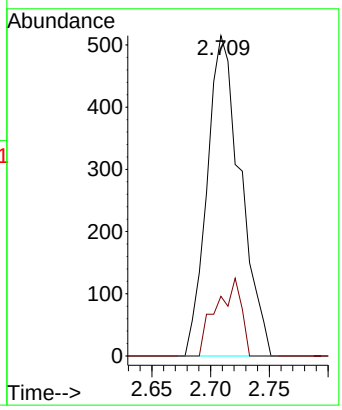


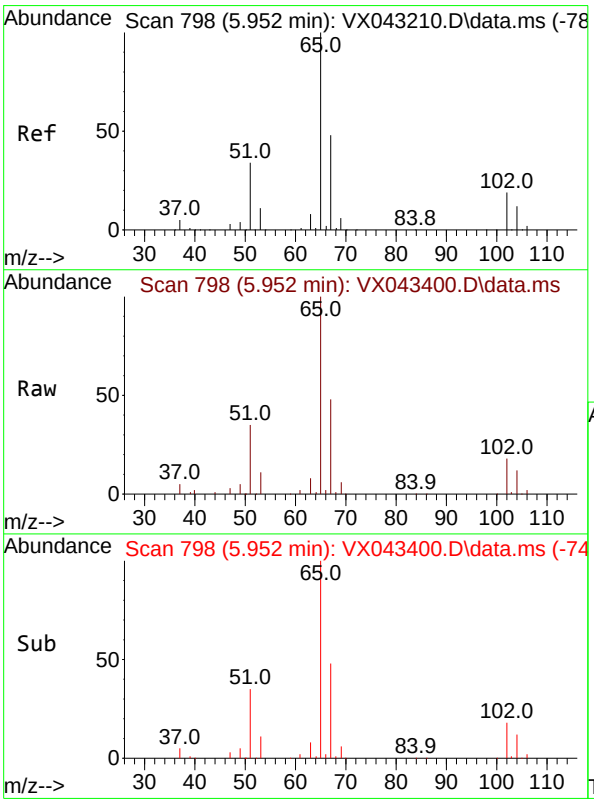
#18
Methyl Acetate
Concen: 0.738 ug/l
RT: 2.709 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Tgt Ion: 43 Resp: 1022

Ion	Ratio	Lower	Upper
43	100		
74	18.3	19.1	28.7#

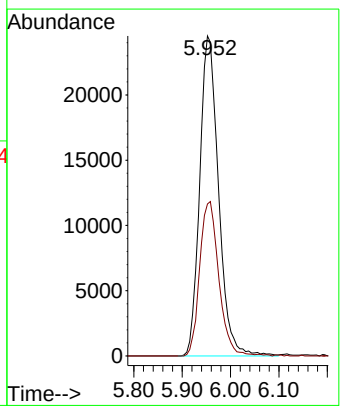


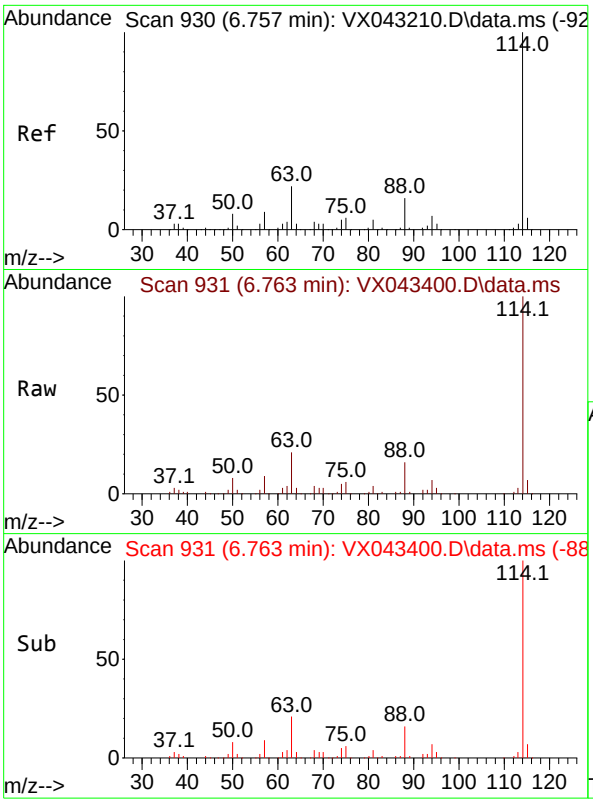


#33
1,2-Dichloroethane-d4
Concen: 50.277 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

Tgt Ion: 65 Resp: 66434

Ion	Ratio	Lower	Upper
65	100		
67	49.0	0.0	99.0



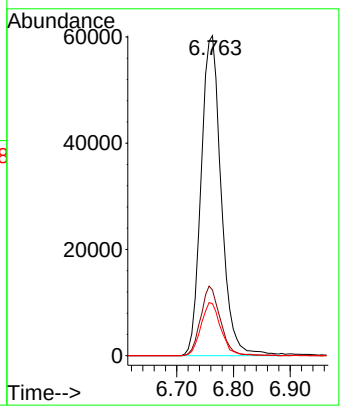


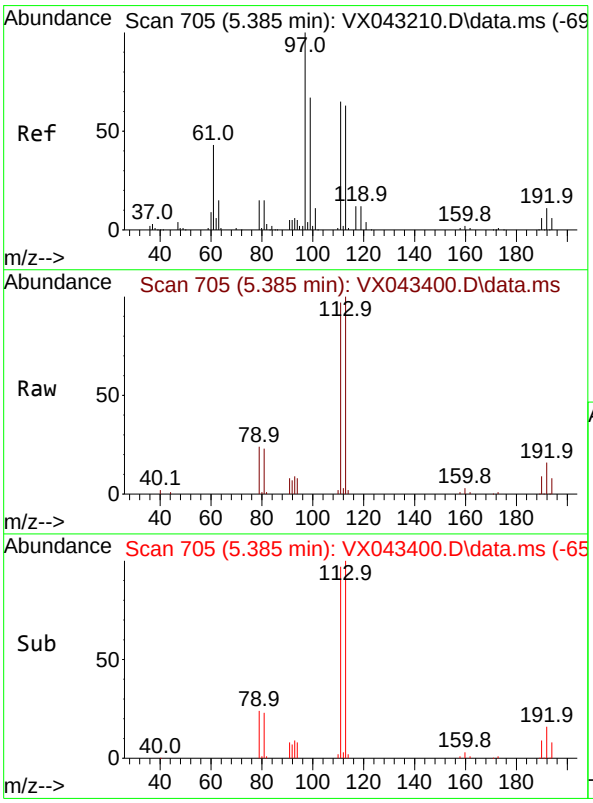
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Tgt Ion:114 Resp: 148484

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	43.0
88	16.3	0.0	33.0

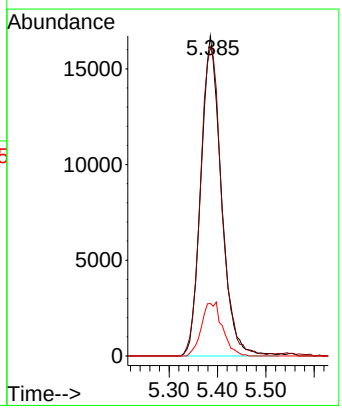


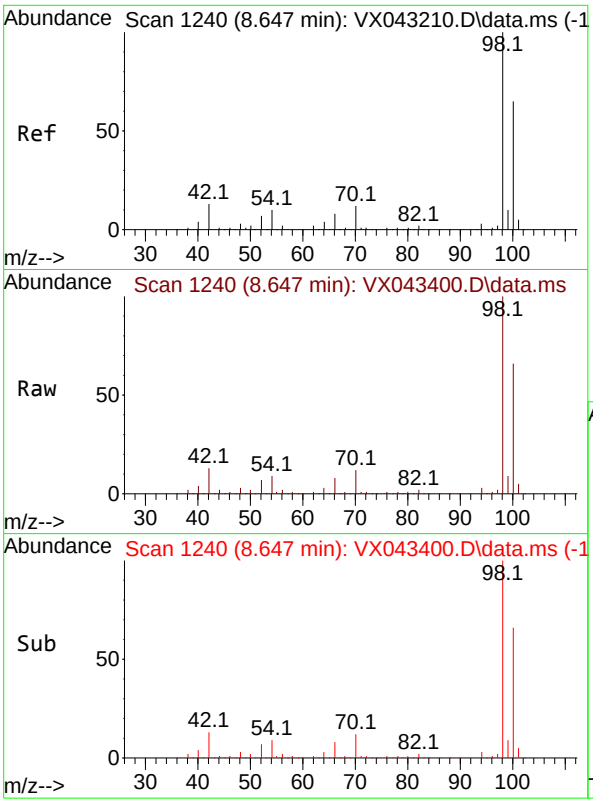


#35
Dibromofluoromethane
Concen: 47.794 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

Tgt Ion:113 Resp: 48941

Ion	Ratio	Lower	Upper
113	100		
111	100.1	83.4	125.0
192	17.3	14.1	21.1



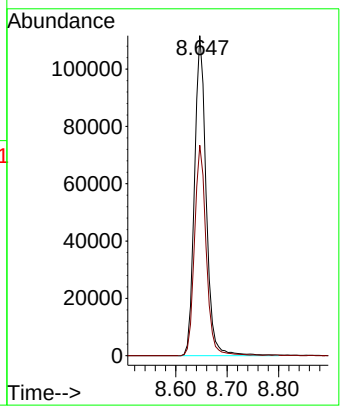


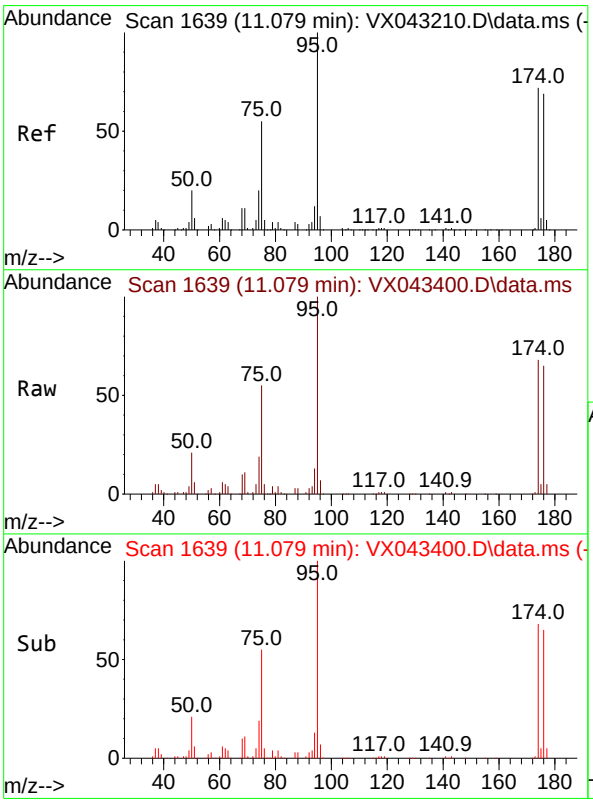
#50
Toluene-d8
Concen: 49.684 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Tgt Ion: 98 Resp: 176310

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.4	78.6

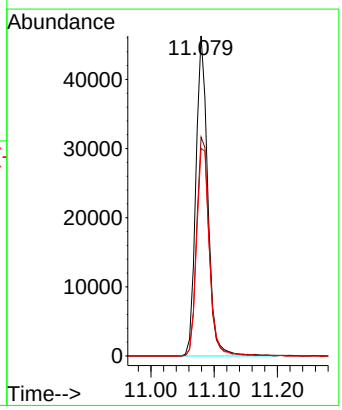


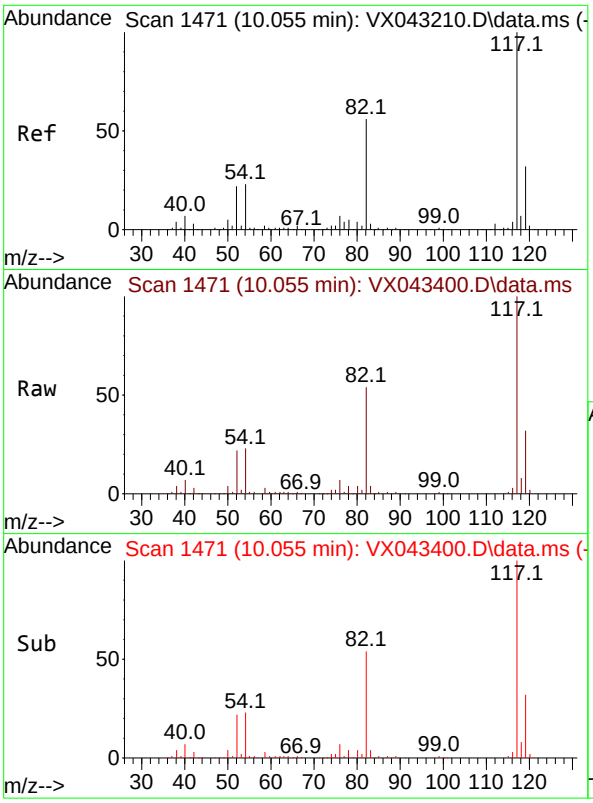


#62
4-Bromofluorobenzene
Concen: 47.362 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

Tgt Ion: 95 Resp: 61059

Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	145.0
176	69.6	0.0	143.0



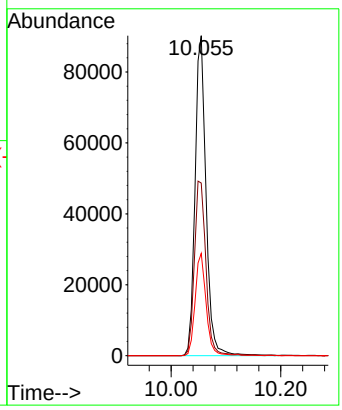


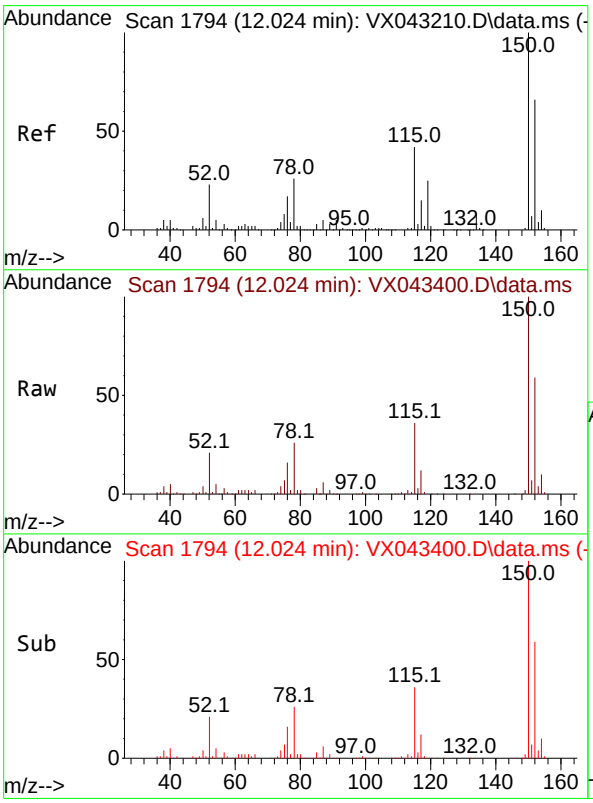
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Tgt Ion:117 Resp: 126066

Ion	Ratio	Lower	Upper
117	100		
82	54.0	45.0	67.6
119	32.0	25.3	37.9

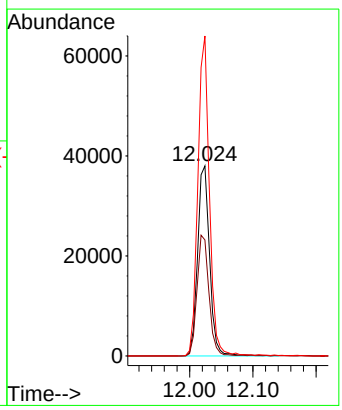




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

Tgt Ion:152 Resp: 50389

Ion	Ratio	Lower	Upper
152	100		
115	63.1	44.1	132.3
150	161.3	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043400.D
Acq On : 15 Oct 2024 13:09
Operator : JC/MD
Sample : P4397-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-301-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\82X100124W.M
Title : SW846 8260

Signal : TIC: VX043400.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.385	693	705	721	rBV2	54148	161295	33.94%	6.603%
2	5.550	721	732	748	rVV2	87120	254017	53.45%	10.400%
3	5.952	789	798	814	rBV	64272	172972	36.39%	7.082%
4	6.757	922	930	948	rBV	144499	352973	74.27%	14.451%
5	8.647	1234	1240	1256	rBV	299651	475267	100.00%	19.458%
6	10.055	1465	1471	1490	rBV	280906	407489	85.74%	16.683%
7	11.079	1634	1639	1655	rBV	217962	293207	61.69%	12.004%
8	12.018	1788	1793	1803	rBV	245361	325357	68.46%	13.320%

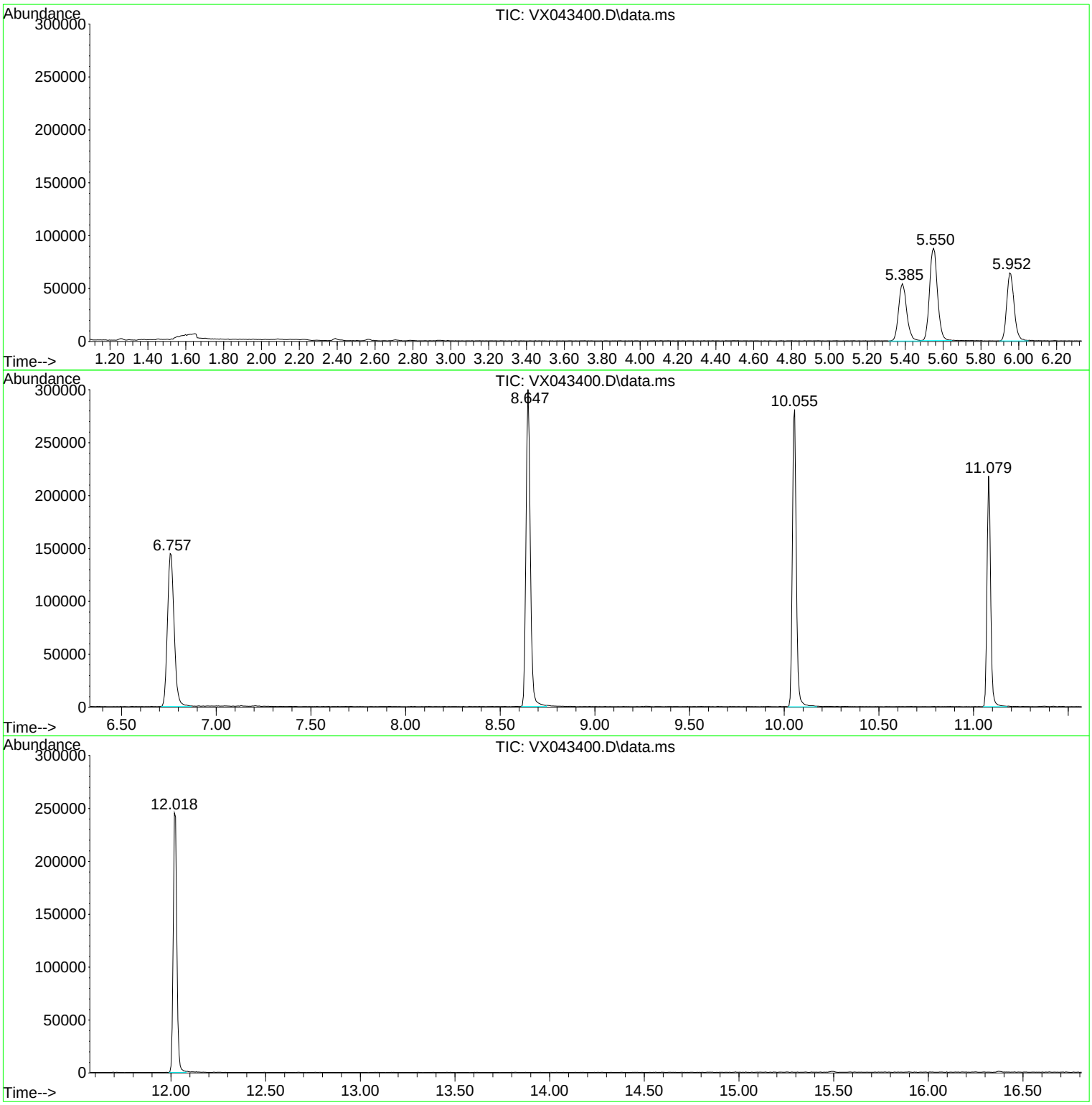
Sum of corrected areas: 2442577

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043400.D
Acq On : 15 Oct 2024 13:09
Operator : JC/MD
Sample : P4397-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043400.D
Acq On : 15 Oct 2024 13:09
Operator : JC/MD
Sample : P4397-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.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\VX101524\
Data File : VX043400.D
Acq On : 15 Oct 2024 13:09
Operator : JC/MD
Sample : P4397-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.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\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Quant Time: Oct 16 01:54:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

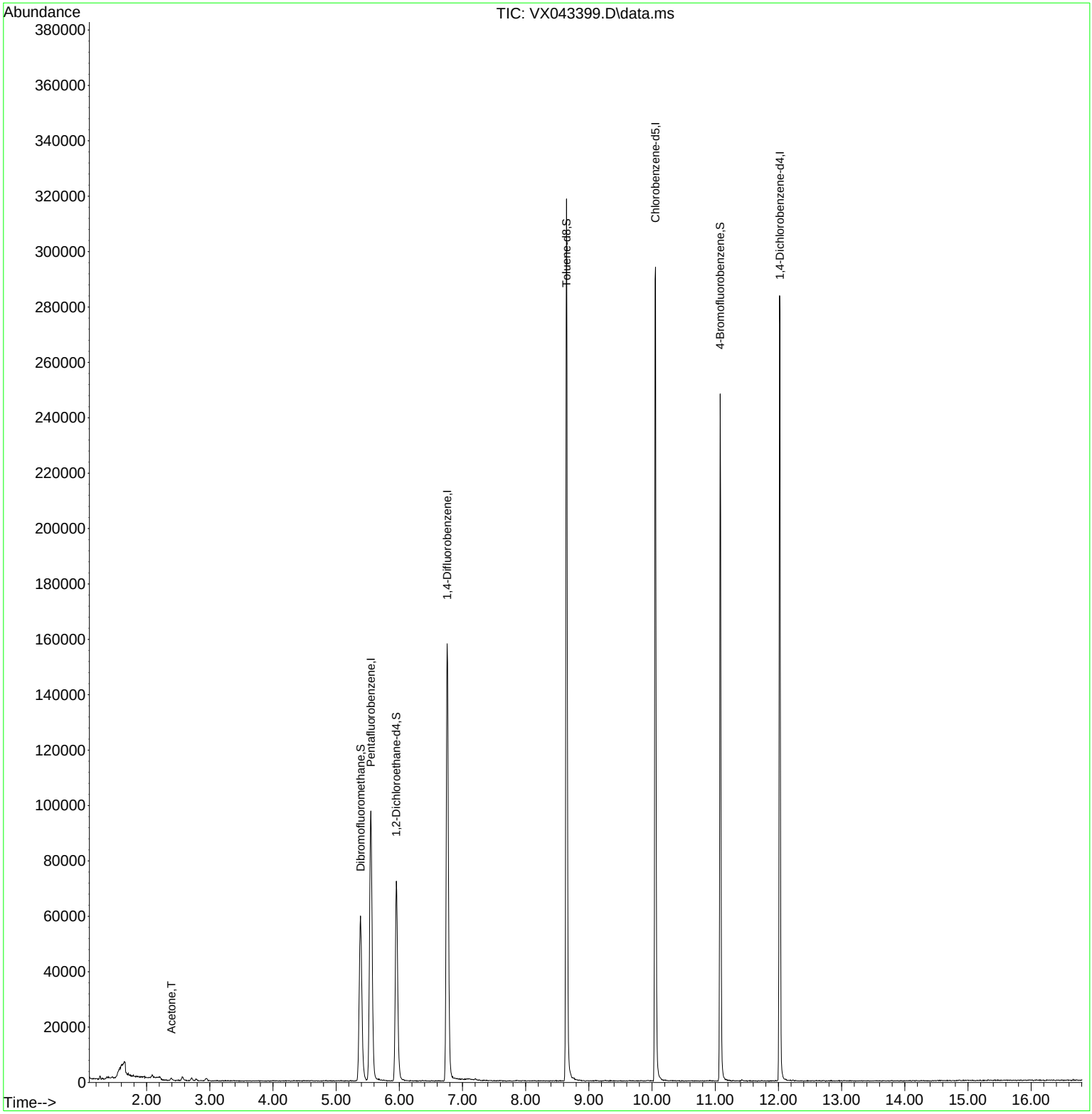
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	87697	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	161174	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	134772	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	57811	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	72289	50.473	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.940%			
35) Dibromofluoromethane	5.385	113	52528	47.258	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.520%			
50) Toluene-d8	8.647	98	188334	48.893	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.780%			
62) 4-Bromofluorobenzene	11.079	95	66490	47.514	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.020%			
Target Compounds						Qvalue
16) Acetone	2.392	43	1130	1.889	ug/l #	75

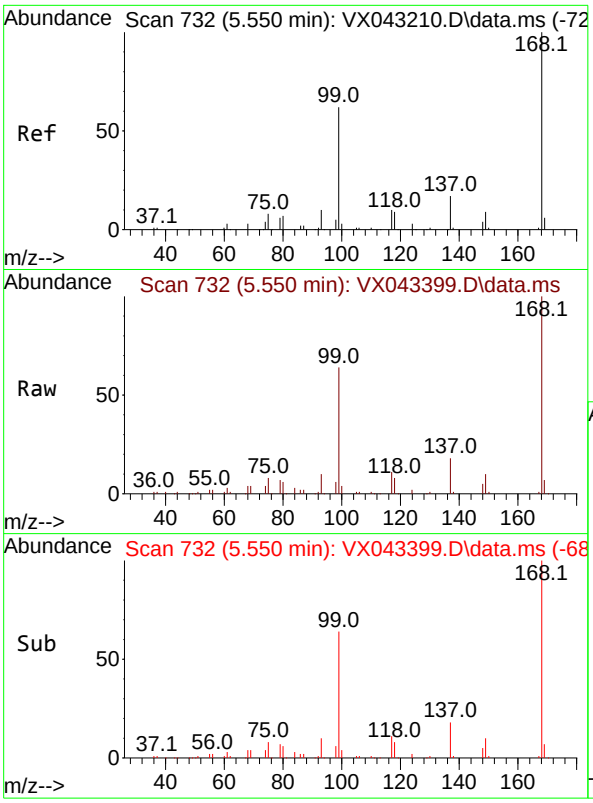
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Quant Time: Oct 16 01:54:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration



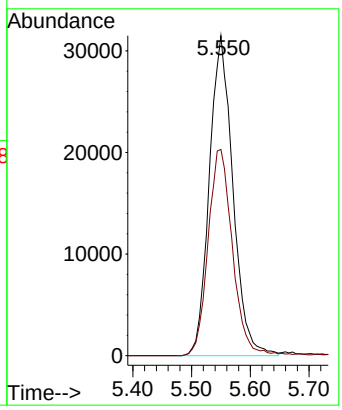


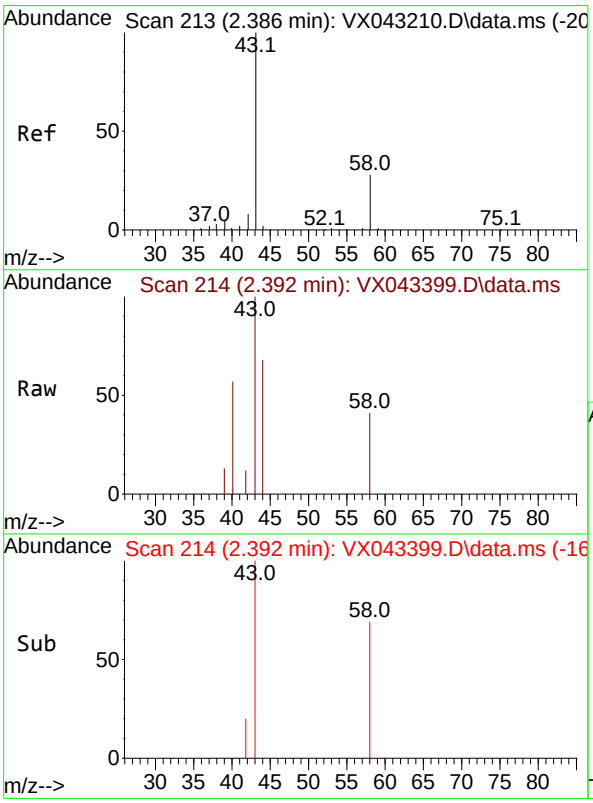
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX043399.D
Acq: 15 Oct 2024 12:46

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Tgt Ion:168 Resp: 87697

Ion	Ratio	Lower	Upper
168	100		
99	64.4	49.7	74.5

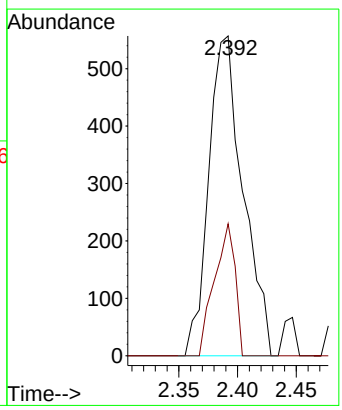


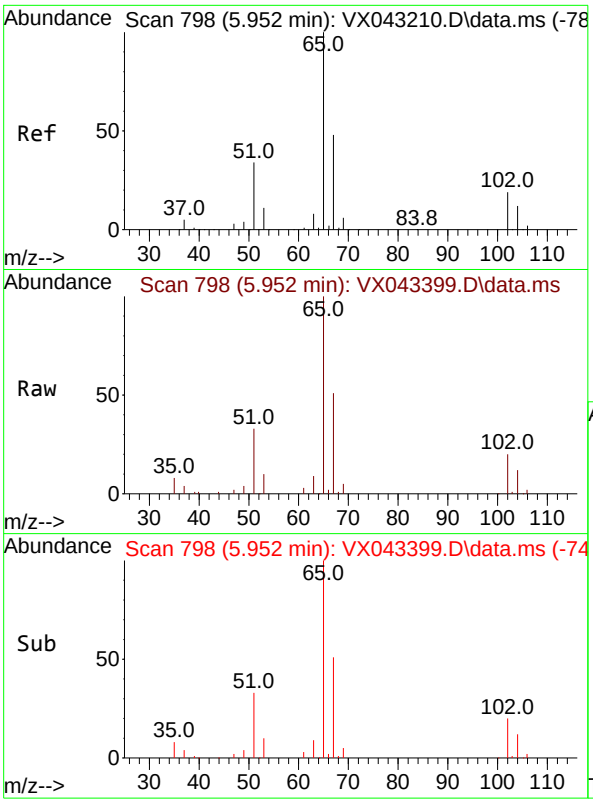


#16
Acetone
Concen: 1.889 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX043399.D
Acq: 15 Oct 2024 12:46

Tgt Ion: 43 Resp: 1130

Ion	Ratio	Lower	Upper
43	100		
58	41.3	22.6	33.8#



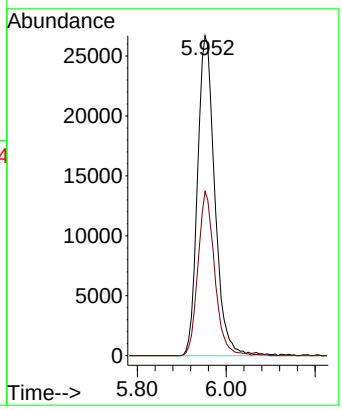


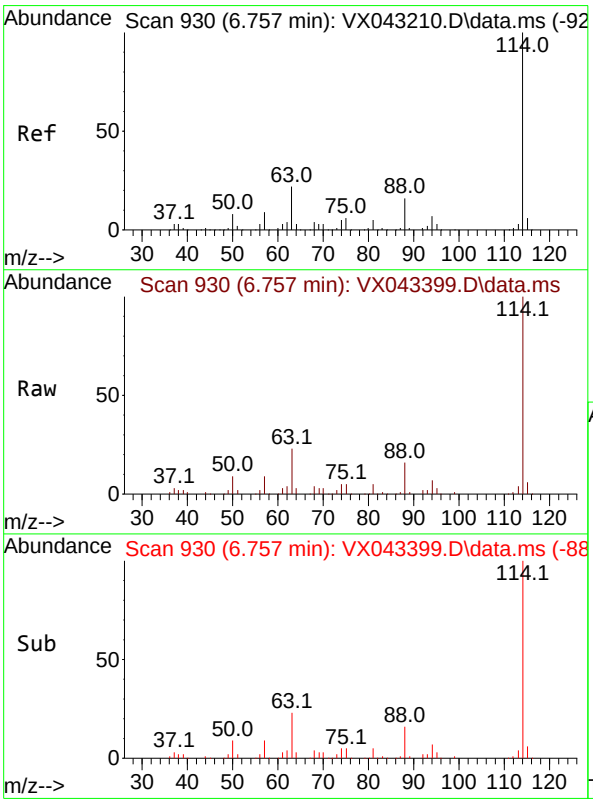
#33
1,2-Dichloroethane-d4
Concen: 50.473 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX043399.D
Acq: 15 Oct 2024 12:46

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Tgt Ion: 65 Resp: 72289

Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	99.0

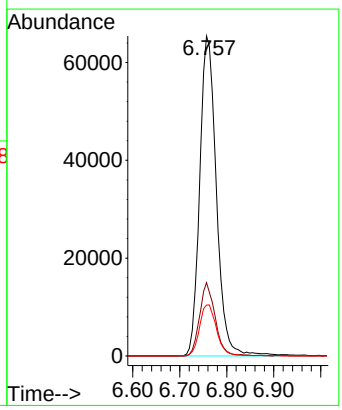


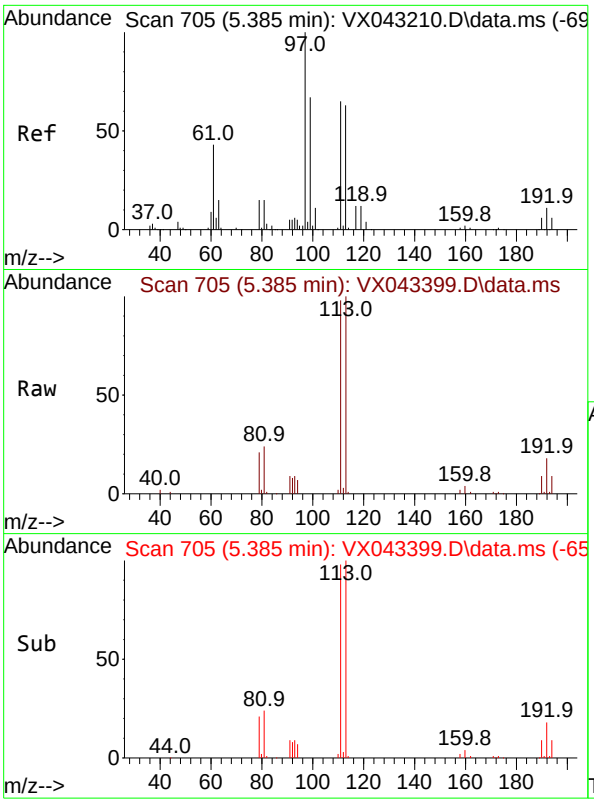


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX043399.D
Acq: 15 Oct 2024 12:46

Tgt Ion:114 Resp: 161174

Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	43.0
88	15.9	0.0	33.0



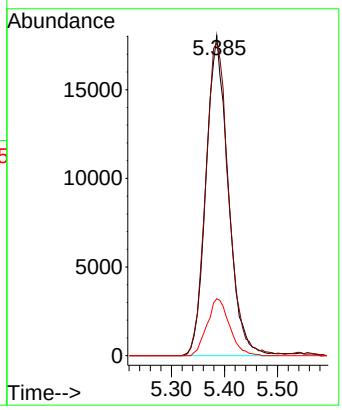


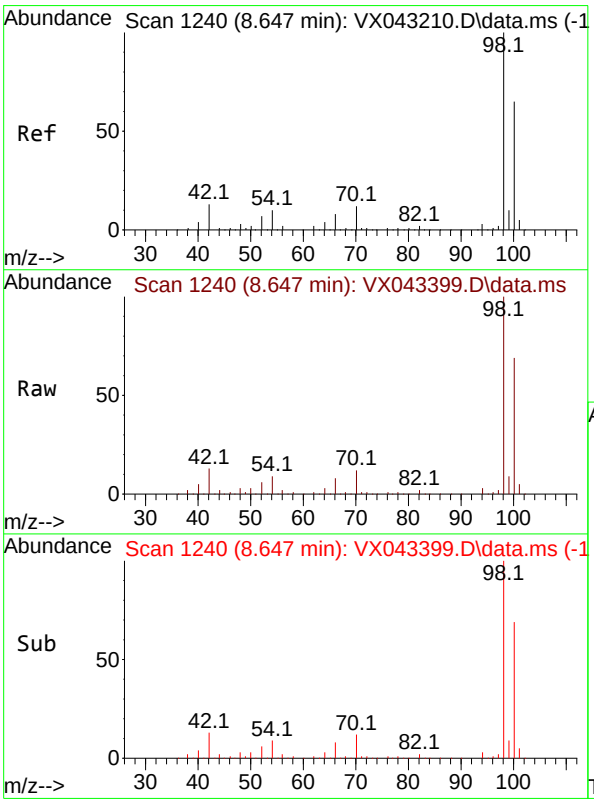
#35
Dibromofluoromethane
Concen: 47.258 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX043399.D
Acq: 15 Oct 2024 12:46

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Tgt Ion:113 Resp: 52528

Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.4	125.0
192	18.0	14.1	21.1

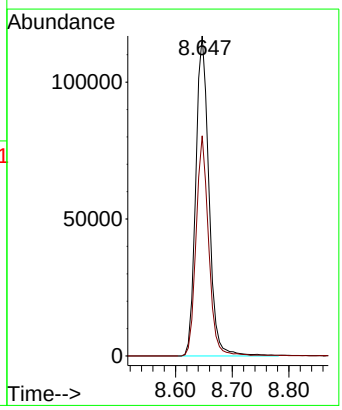


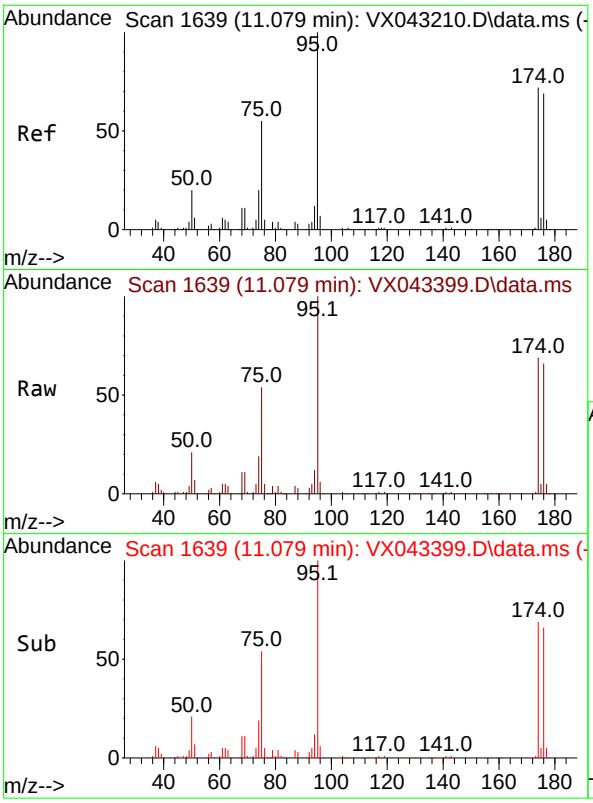


#50
Toluene-d8
Concen: 48.893 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX043399.D
Acq: 15 Oct 2024 12:46

Tgt Ion: 98 Resp: 188334

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.4	78.6



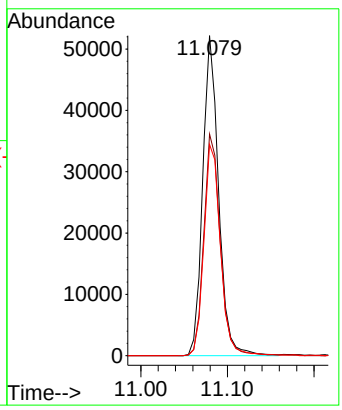


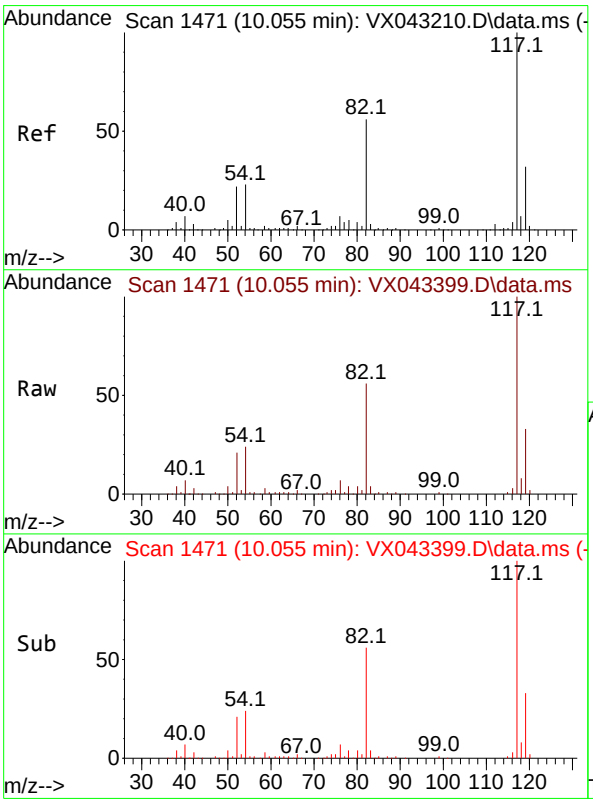
#62
4-Bromofluorobenzene
Concen: 47.514 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX043399.D
Acq: 15 Oct 2024 12:46

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Tgt Ion: 95 Resp: 66490

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	145.0
176	69.0	0.0	143.0

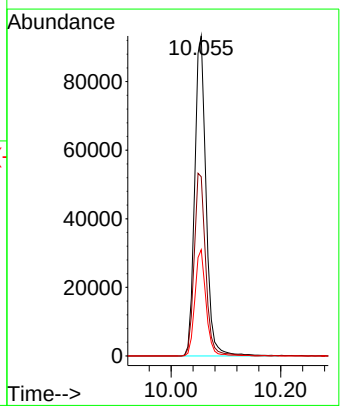


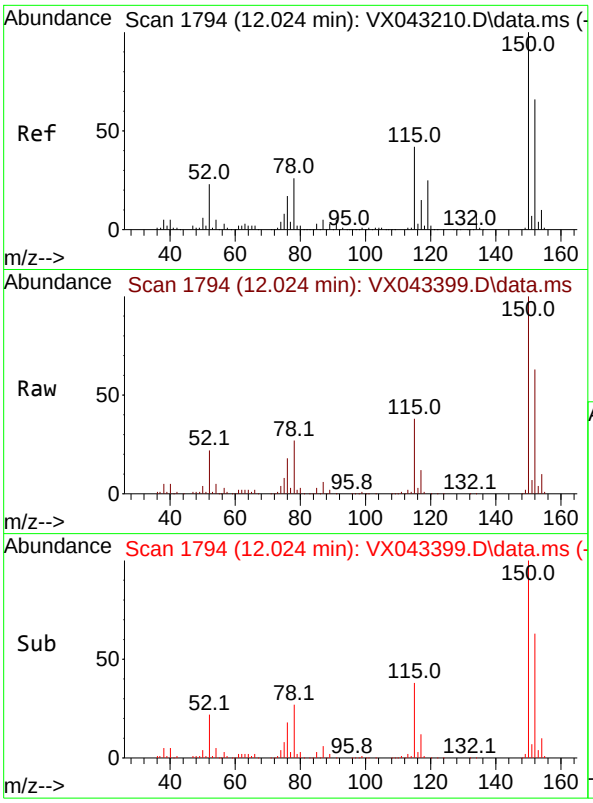


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX043399.D
Acq: 15 Oct 2024 12:46

Tgt Ion:117 Resp: 134772

Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.0	67.6
119	33.2	25.3	37.9



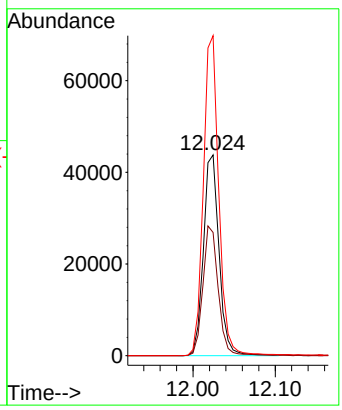


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX043399.D
Acq: 15 Oct 2024 12:46

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Tgt Ion:152 Resp: 57811

Ion	Ratio	Lower	Upper
152	100		
115	63.4	44.1	132.3
150	158.4	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

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\82X100124W.M
Title : SW846 8260

Signal : TIC: VX043399.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.581	69	81	82	rBV4	3794	10228	2.01%	0.384%
2	5.385	694	705	720	rBV2	59512	174133	34.28%	6.544%
3	5.550	720	732	748	rBV	97239	275571	54.24%	10.356%
4	5.952	787	798	815	rBV	72201	189078	37.22%	7.106%
5	6.757	921	930	943	rBV	157963	382148	75.22%	14.361%
6	8.647	1233	1240	1254	rBV	318544	508037	100.00%	19.092%
7	10.055	1465	1471	1487	rBV	294012	431975	85.03%	16.234%
8	11.079	1634	1639	1652	rBV	248041	319848	62.96%	12.020%
9	12.018	1788	1793	1807	rBV	283451	369953	72.82%	13.903%

Sum of corrected areas: 2660971

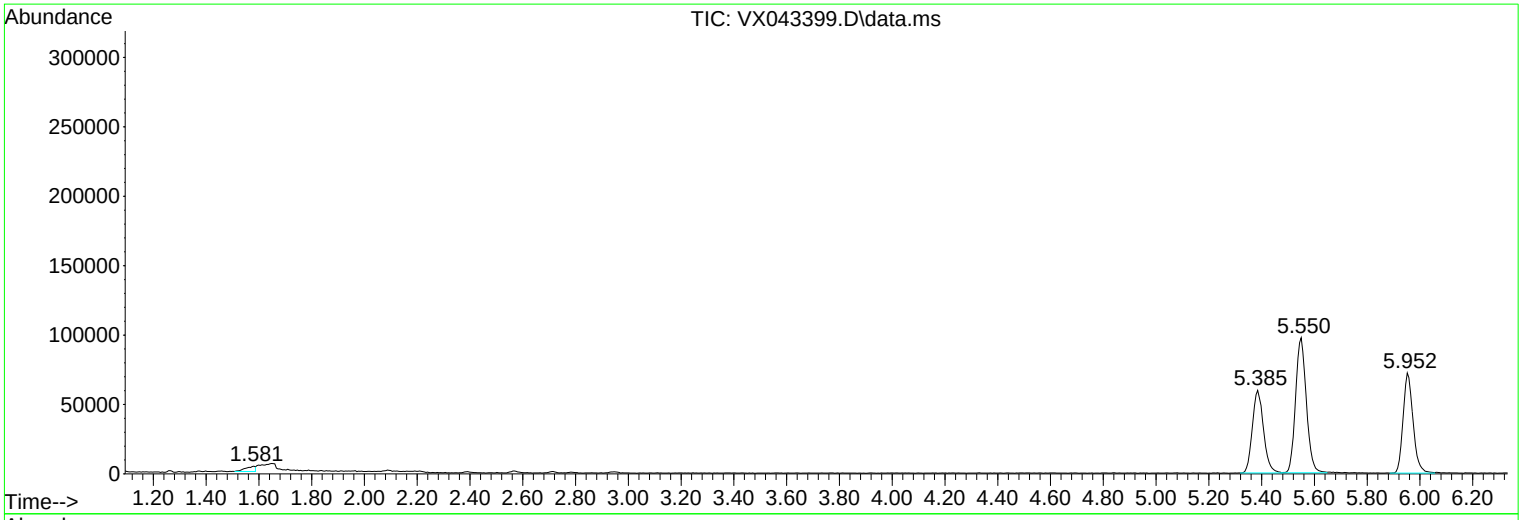
Sample Results: **VX043399.D**

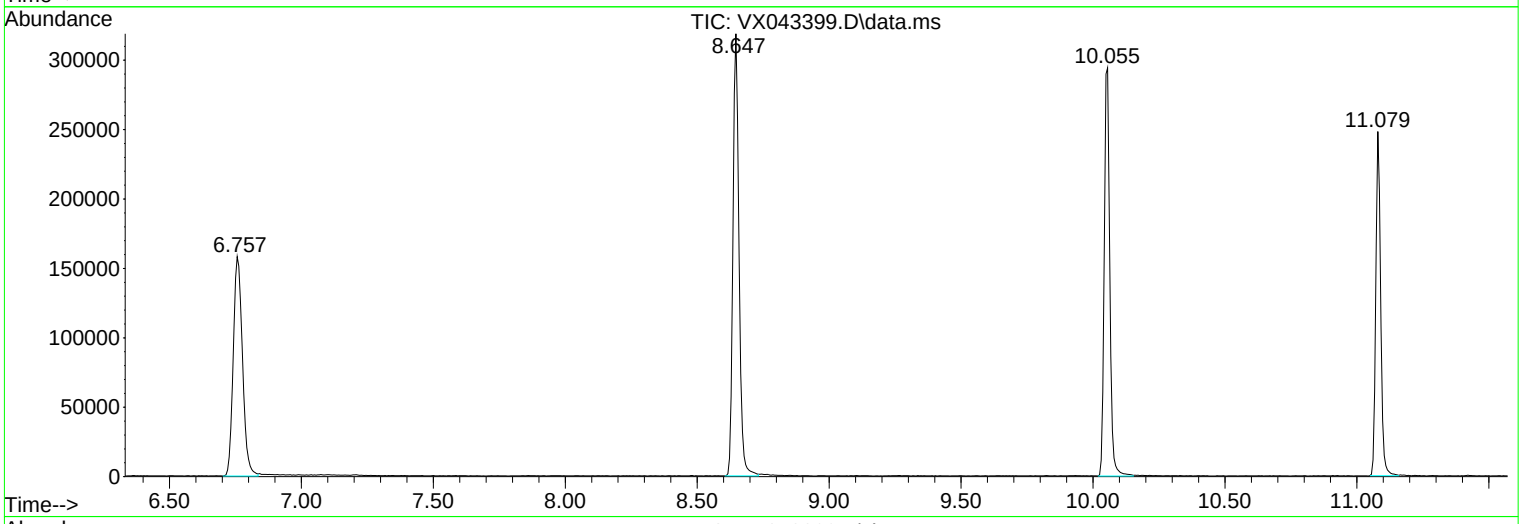
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

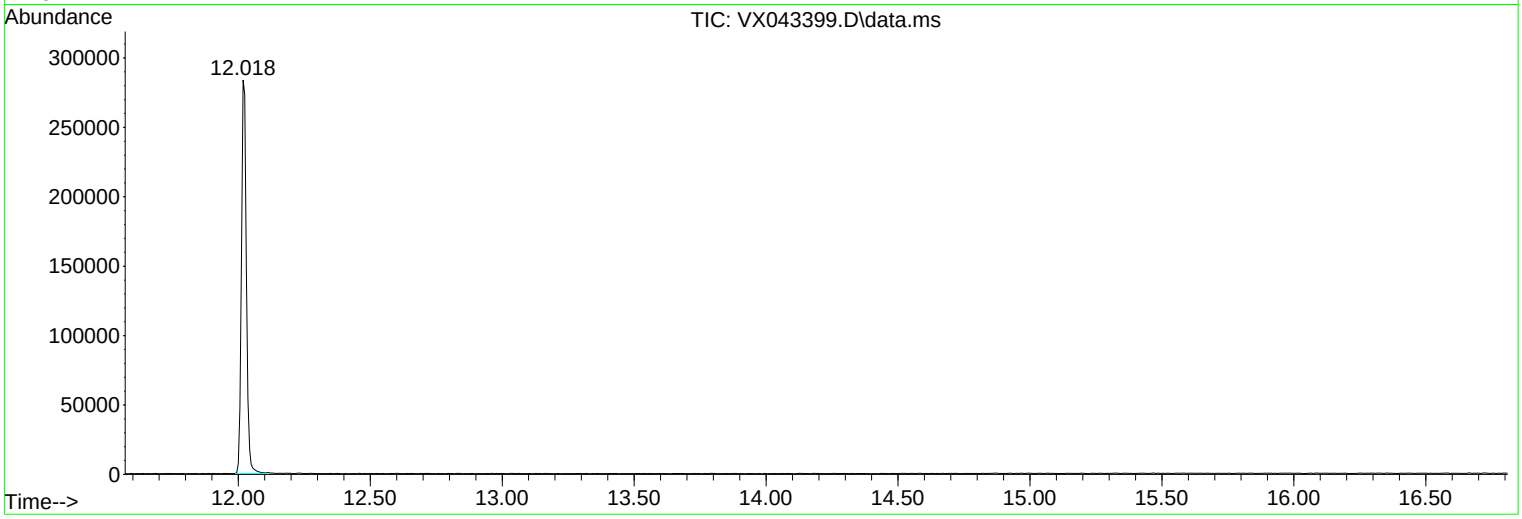
Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.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\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.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\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Quant Time: Oct 16 07:15:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

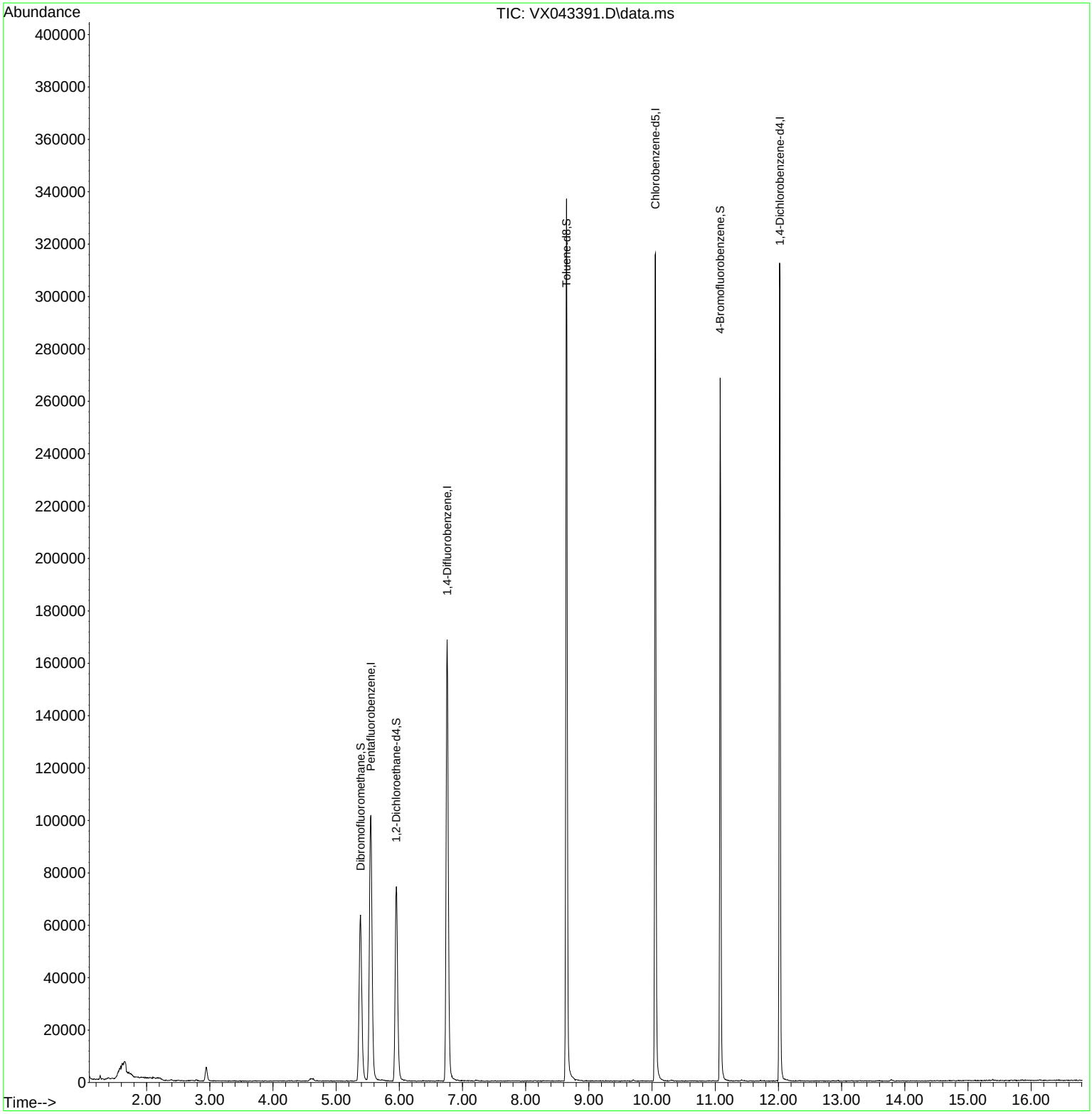
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	94368	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	170879	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	144567	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	64756	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77644	50.380	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.760%			
35) Dibromofluoromethane	5.385	113	56082	47.590	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.180%			
50) Toluene-d8	8.647	98	202475	49.579	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.160%			
62) 4-Bromofluorobenzene	11.079	95	72144	48.626	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.260%			
Target Compounds						Qvalue

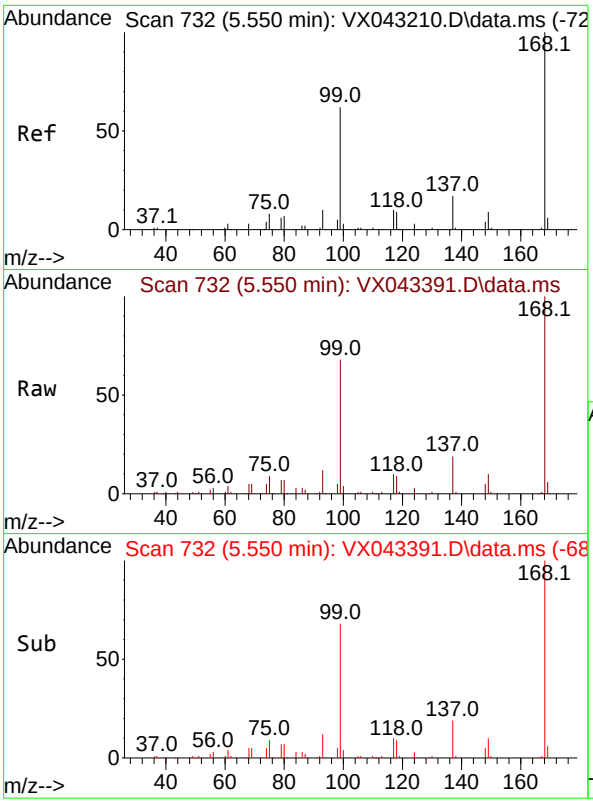
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Quant Time: Oct 16 07:15:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration



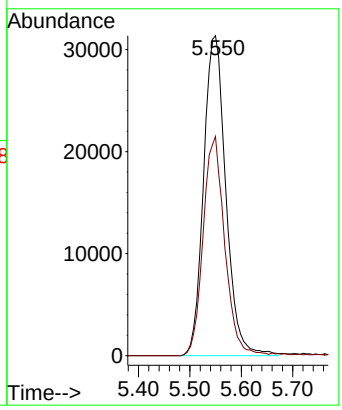


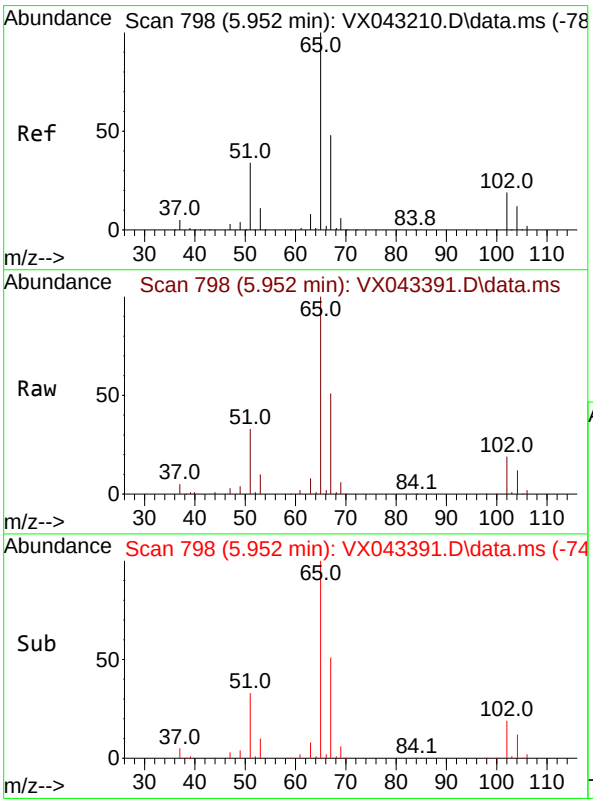
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX043391.D
Acq: 15 Oct 2024 09:31

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Tgt Ion:168 Resp: 94368

Ion	Ratio	Lower	Upper
168	100		
99	68.5	49.7	74.5

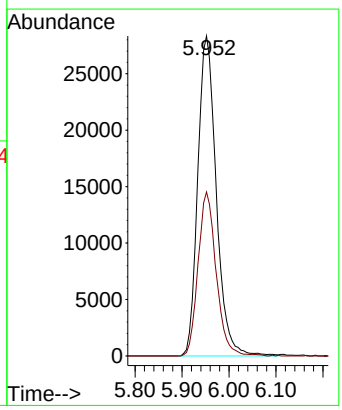


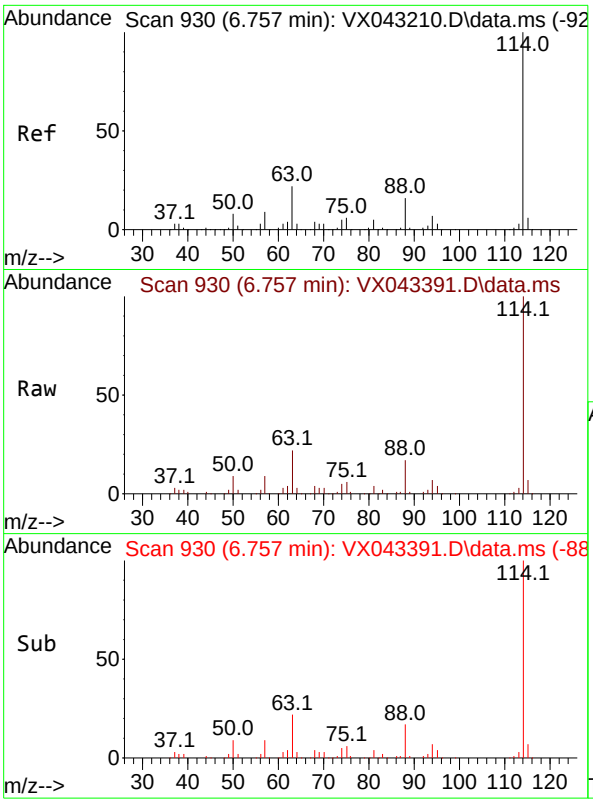


#33
1,2-Dichloroethane-d4
Concen: 50.380 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX043391.D
Acq: 15 Oct 2024 09:31

Tgt Ion: 65 Resp: 77644

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	99.0



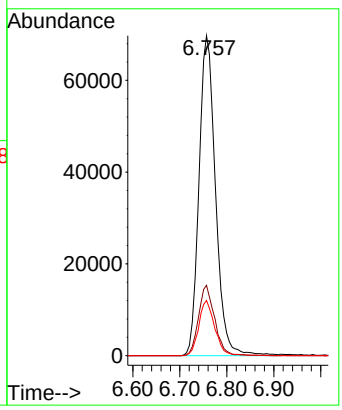


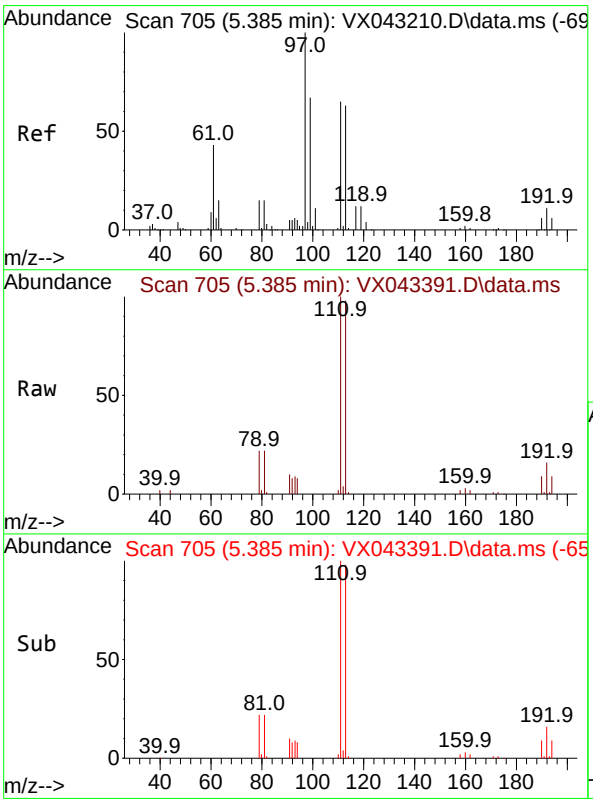
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX043391.D
Acq: 15 Oct 2024 09:31

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Tgt Ion:114 Resp: 170879

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	43.0
88	17.2	0.0	33.0

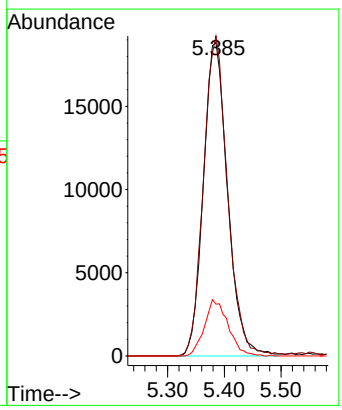


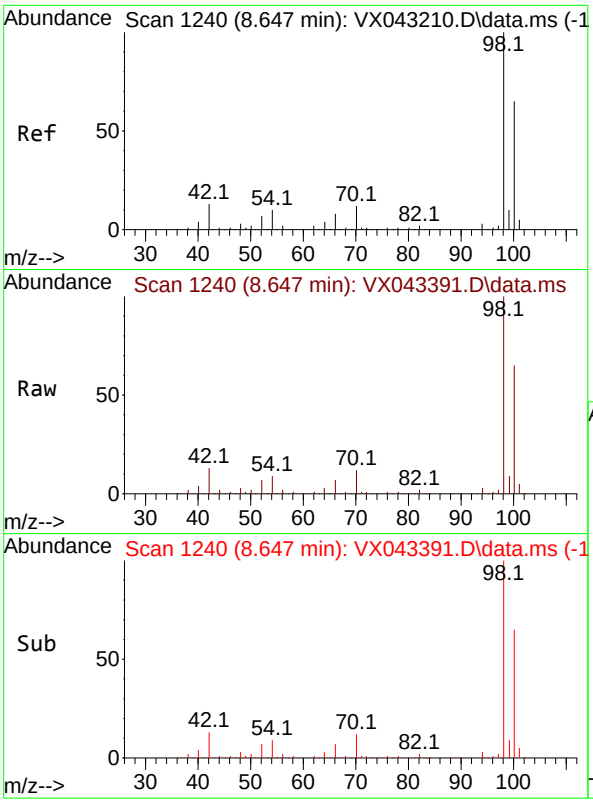


#35
Dibromofluoromethane
Concen: 47.590 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX043391.D
Acq: 15 Oct 2024 09:31

Tgt Ion:113 Resp: 56082

Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.4	125.0
192	17.5	14.1	21.1



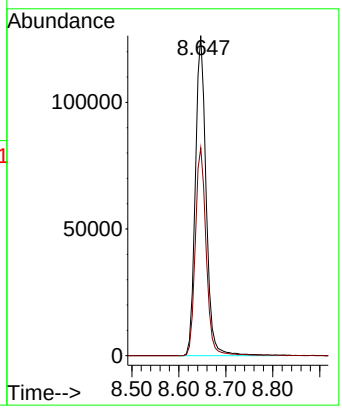


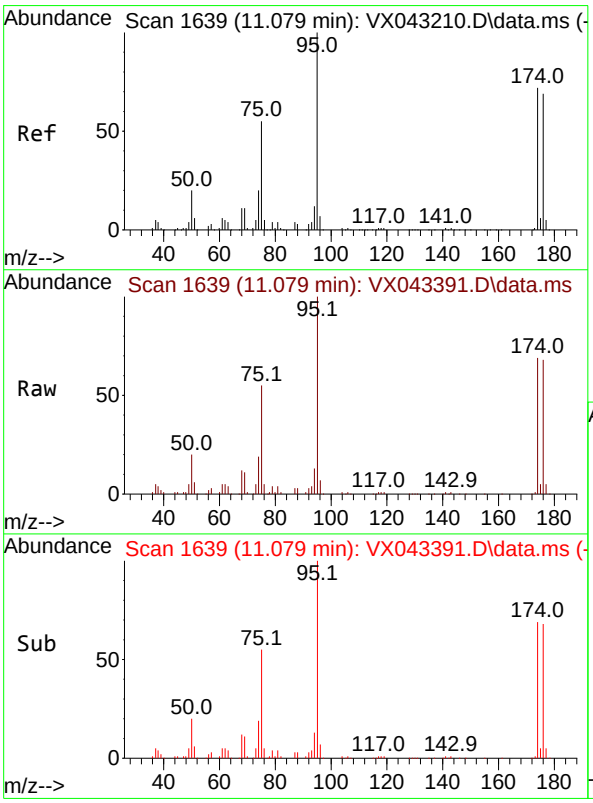
#50
Toluene-d8
Concen: 49.579 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX043391.D
Acq: 15 Oct 2024 09:31

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Tgt Ion: 98 Resp: 202475

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.4	78.6

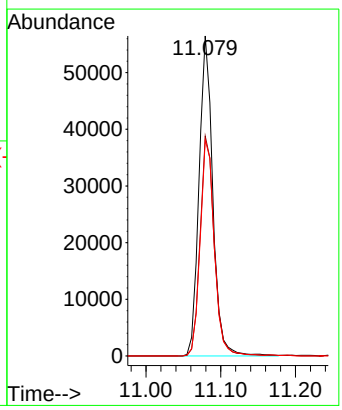




#62
4-Bromofluorobenzene
Concen: 48.626 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX043391.D
Acq: 15 Oct 2024 09:31

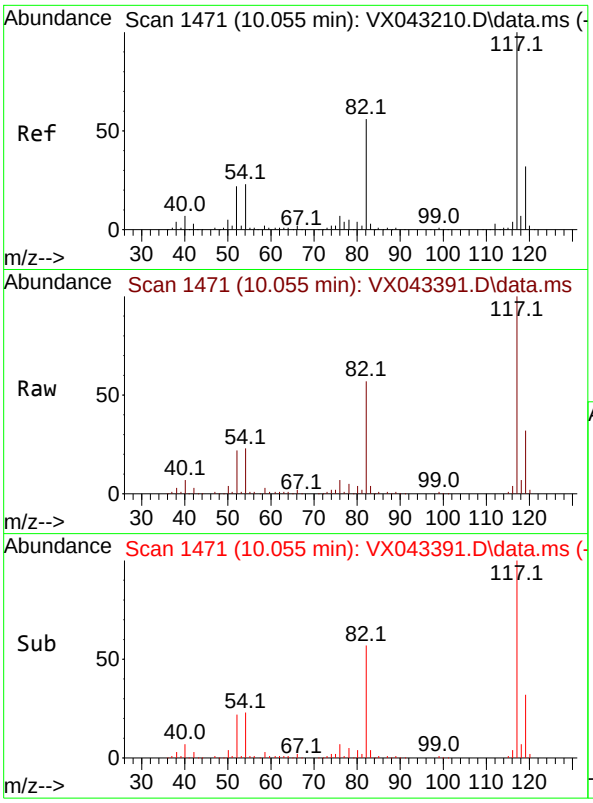
Tgt Ion: 95 Resp: 72144

Ion	Ratio	Lower	Upper
95	100		
174	71.1	0.0	145.0
176	69.4	0.0	143.0



5

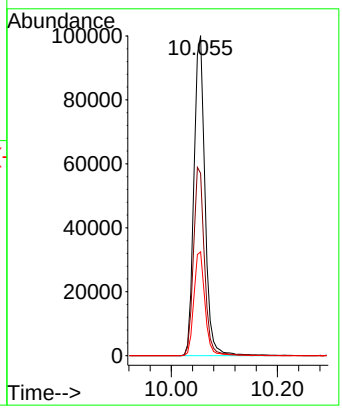
Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

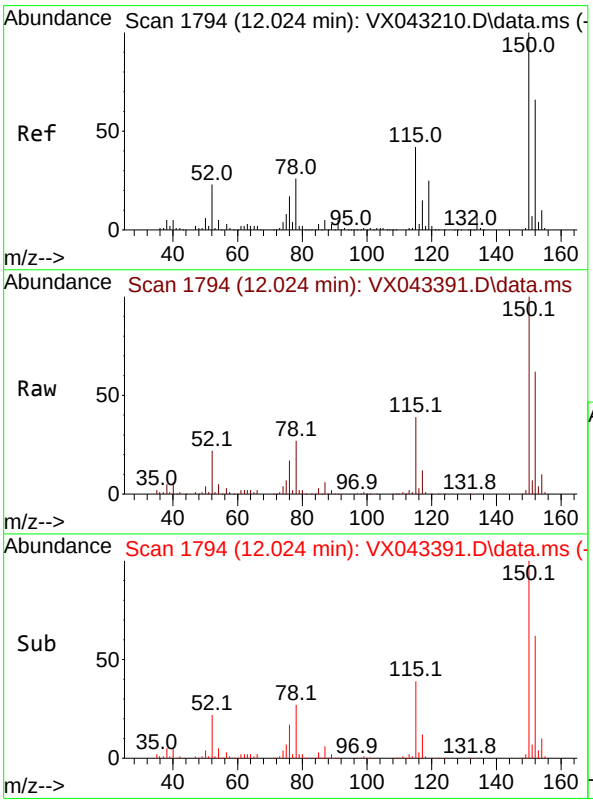


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX043391.D
Acq: 15 Oct 2024 09:31

Tgt Ion:117 Resp: 144567

Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.0	67.6
119	32.4	25.3	37.9

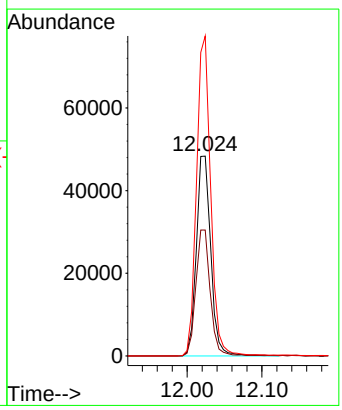




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX043391.D
Acq: 15 Oct 2024 09:31

Tgt Ion:152 Resp: 64756

Ion	Ratio	Lower	Upper
152	100		
115	62.9	44.1	132.3
150	156.8	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

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\82X100124W.M
Title : SW846 8260

Signal : TIC: VX043391.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.569	67	79	81	rBV5	3861	10152	1.86%	0.352%
2	2.940	297	304	314	rBV2	5269	12136	2.22%	0.421%
3	5.385	694	705	719	rBV2	63310	185709	34.01%	6.445%
4	5.550	721	732	749	rVB	101046	295188	54.05%	10.244%
5	5.952	788	798	813	rBV	74295	201887	36.97%	7.006%
6	6.757	921	930	946	rBV	168561	406571	74.45%	14.109%
7	8.647	1234	1240	1260	rBV	336670	546095	100.00%	18.951%
8	10.055	1465	1471	1492	rBV	315999	465848	85.31%	16.166%
9	11.079	1634	1639	1652	rBV	268371	346002	63.36%	12.007%
10	12.018	1788	1793	1804	rBV	312389	412065	75.46%	14.300%

Sum of corrected areas: 2881653

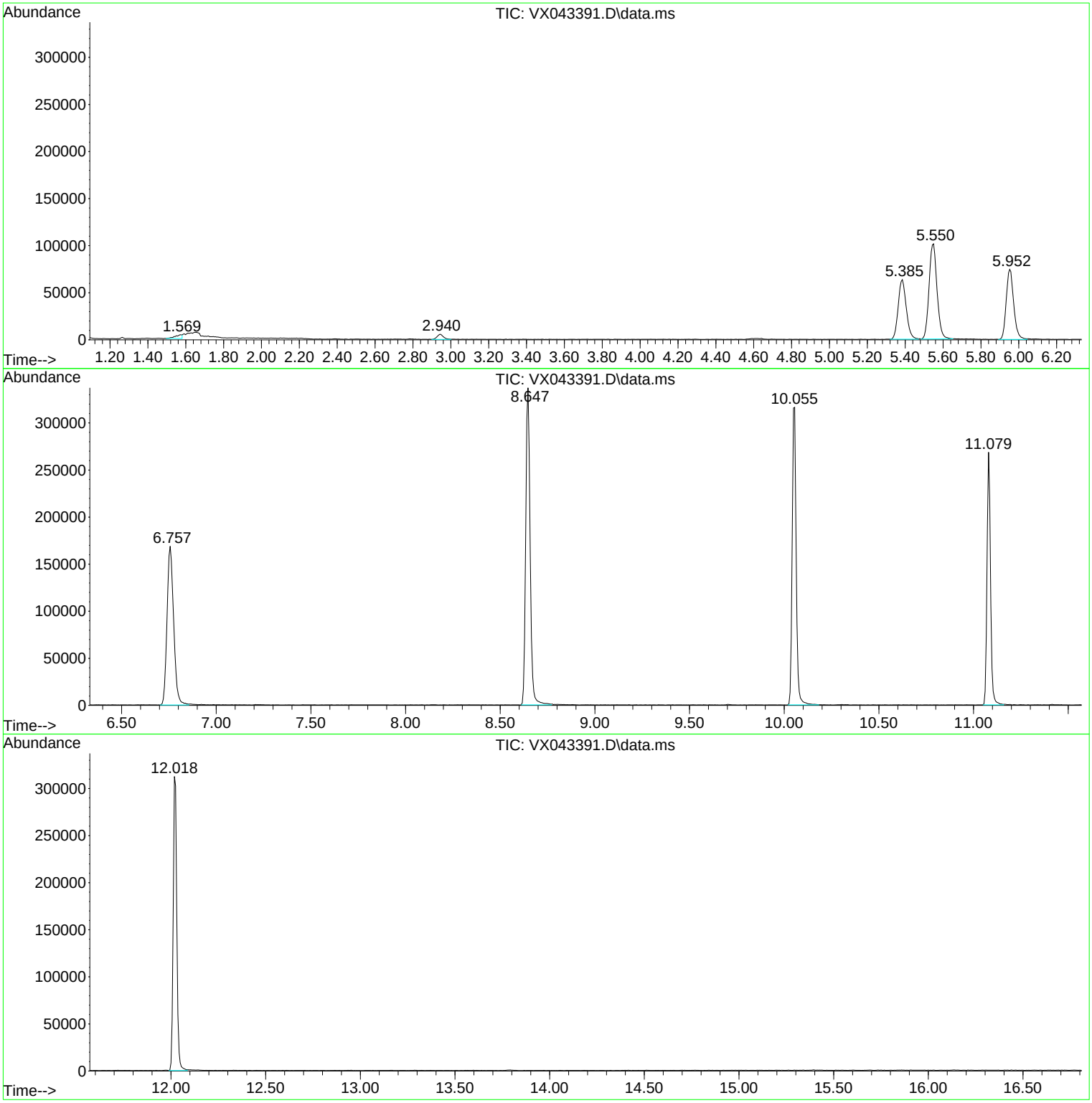
Sample Results: **VX043391.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.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\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.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\VY101424\
Data File : VY019883.D
Acq On : 14 Oct 2024 10:31
Operator : SY/MD
Sample : VY1014SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

Quant Time: Oct 15 01:33:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	272092	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	541333	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	470368	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	156619	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	174249	52.011	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.020%			
35) Dibromofluoromethane	7.634	113	174734	48.915	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.820%			
50) Toluene-d8	10.109	98	661718	50.162	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.320%			
62) 4-Bromofluorobenzene	12.408	95	192068	40.295	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 80.600%			

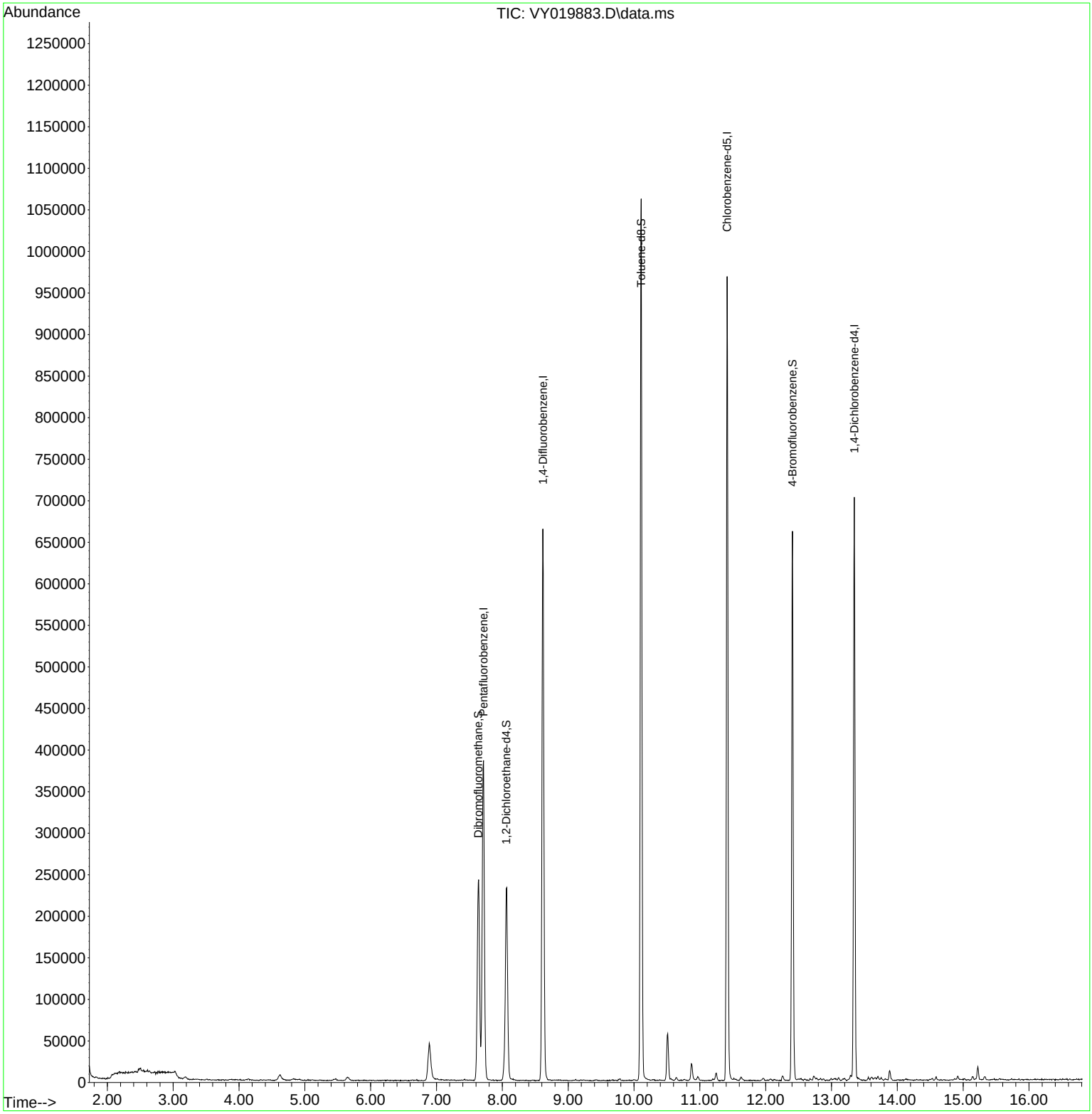
Target Compounds Qvalue

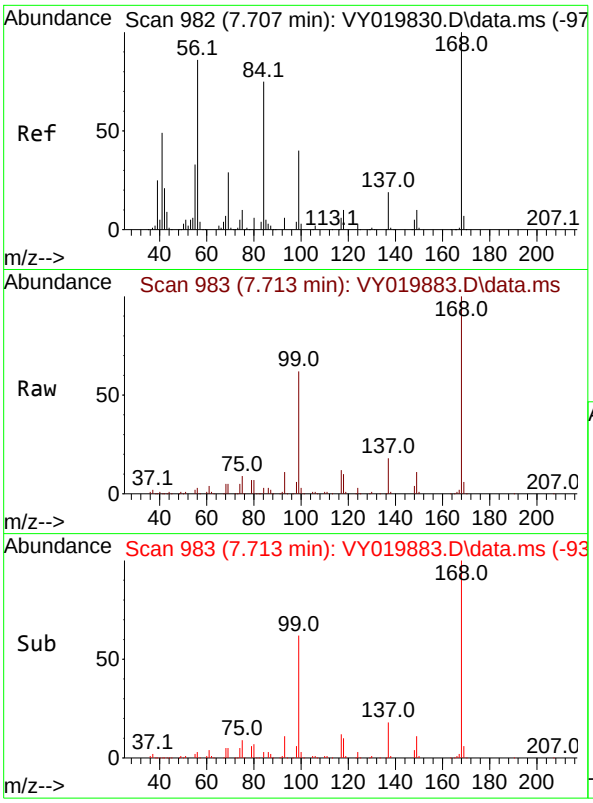
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019883.D
Acq On : 14 Oct 2024 10:31
Operator : SY/MD
Sample : VY1014SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

Quant Time: Oct 15 01:33:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration



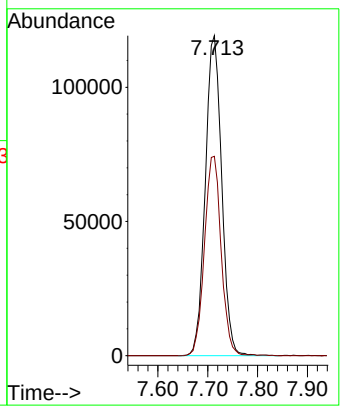


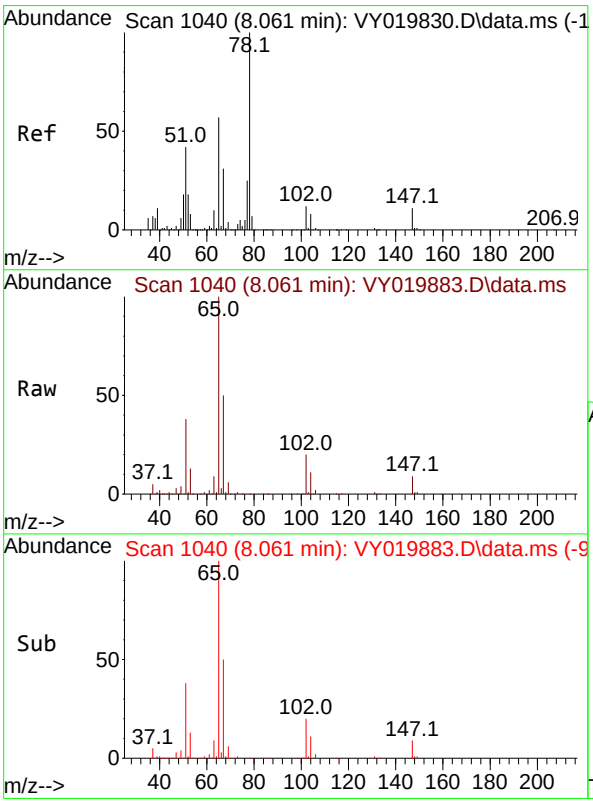
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019883.D
Acq: 14 Oct 2024 10:31

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

Tgt Ion:168 Resp: 272092

Ion	Ratio	Lower	Upper
168	100		
99	62.3	39.1	58.7#

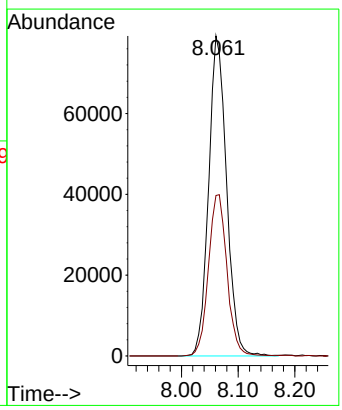




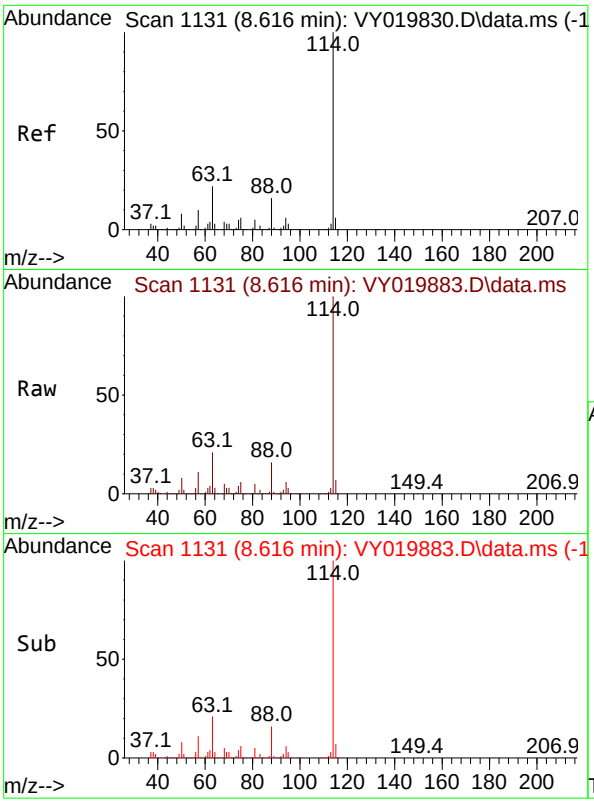
#33
1,2-Dichloroethane-d4
Concen: 52.011 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019883.D
Acq: 14 Oct 2024 10:31

Tgt Ion: 65 Resp: 174249

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	109.6



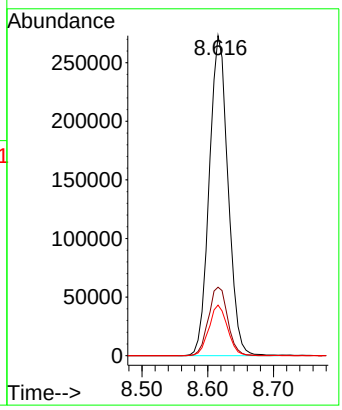
Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

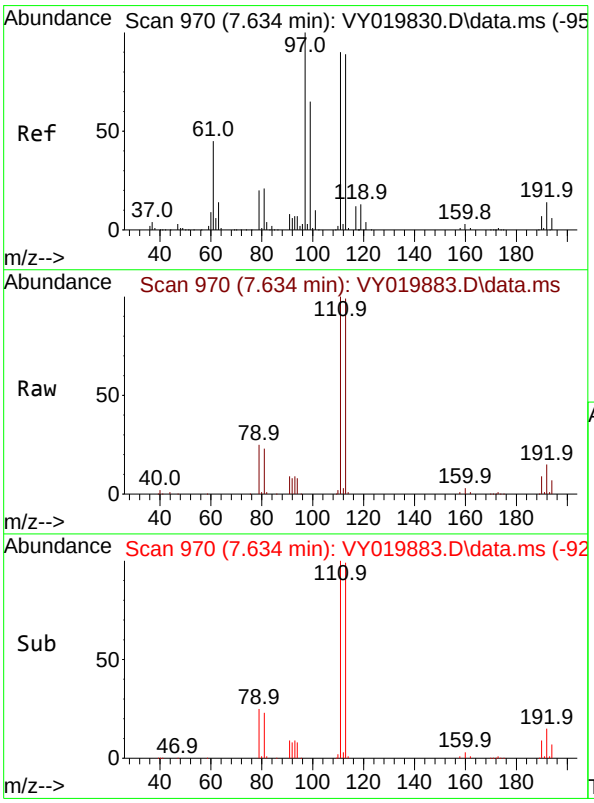


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019883.D
Acq: 14 Oct 2024 10:31

Tgt Ion:114 Resp: 541333

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	35.0
88	15.8	0.0	27.2

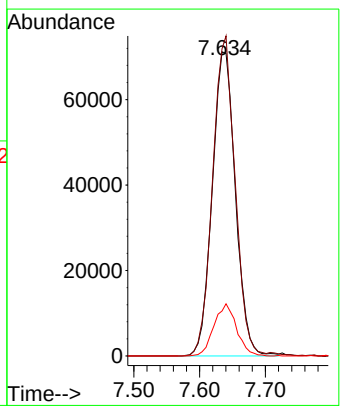


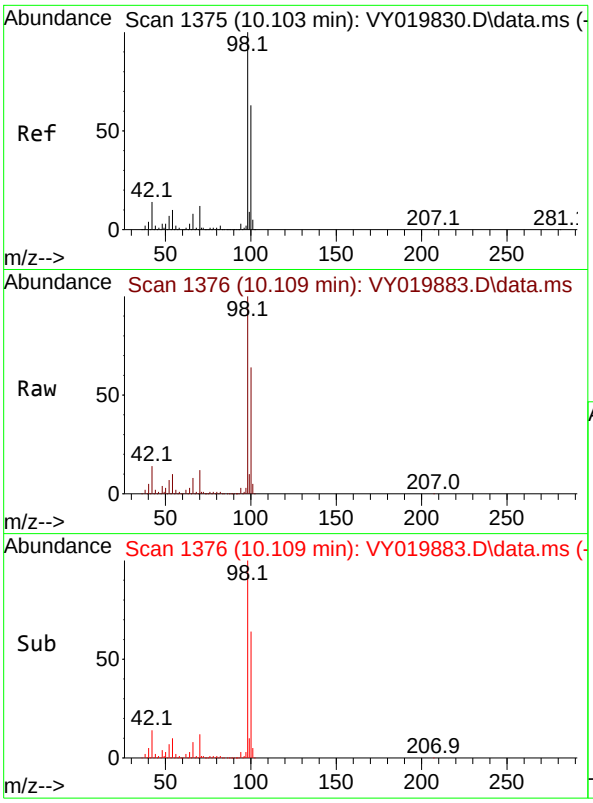


#35
Dibromofluoromethane
Concen: 48.915 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY019883.D
Acq: 14 Oct 2024 10:31

Tgt Ion:113 Resp: 174734

Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.2	123.4
192	16.7	15.9	23.9



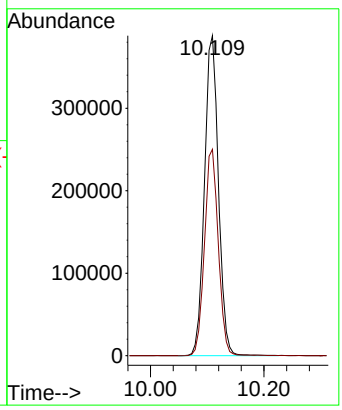


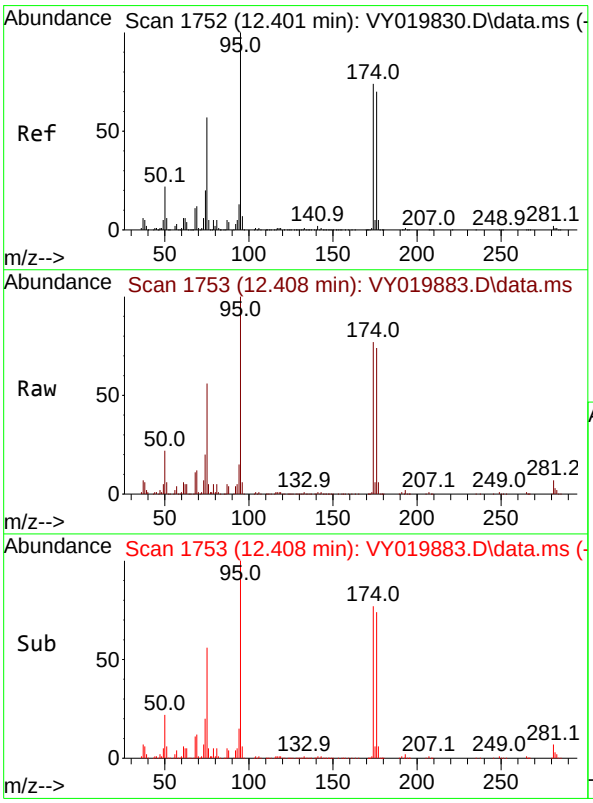
#50
Toluene-d8
Concen: 50.162 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019883.D
Acq: 14 Oct 2024 10:31

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

Tgt Ion: 98 Resp: 661718

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.0	78.0

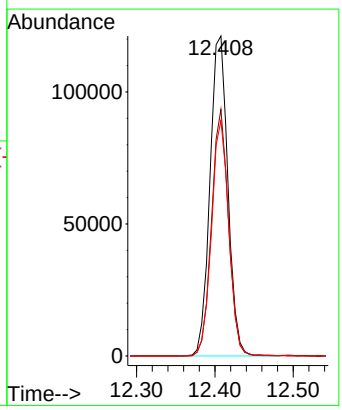


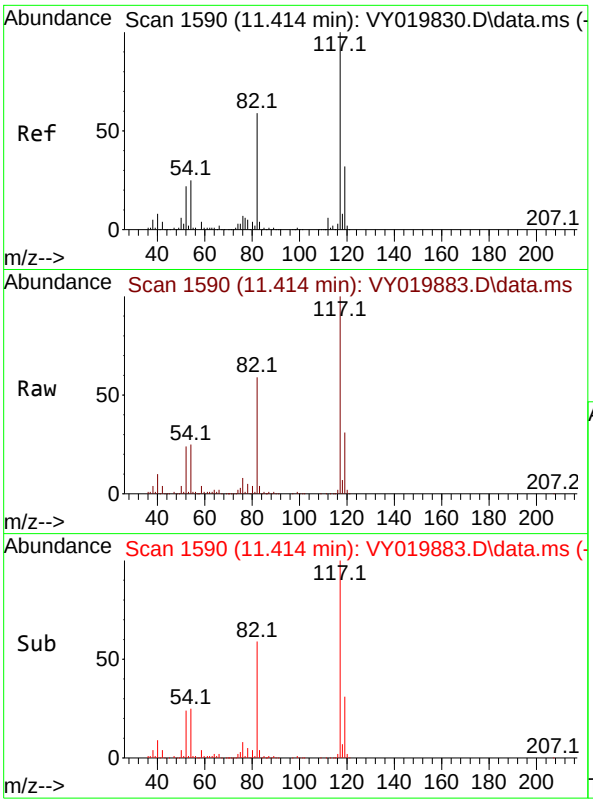


#62
4-Bromofluorobenzene
Concen: 40.295 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY019883.D
Acq: 14 Oct 2024 10:31

Tgt Ion: 95 Resp: 192068

Ion	Ratio	Lower	Upper
95	100		
174	73.1	0.0	175.6
176	71.0	0.0	171.4



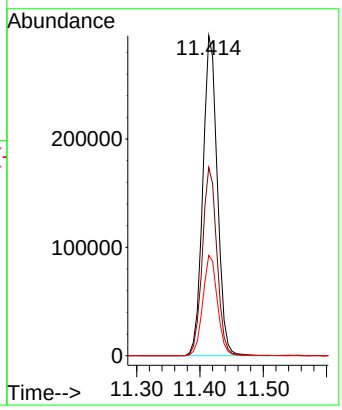


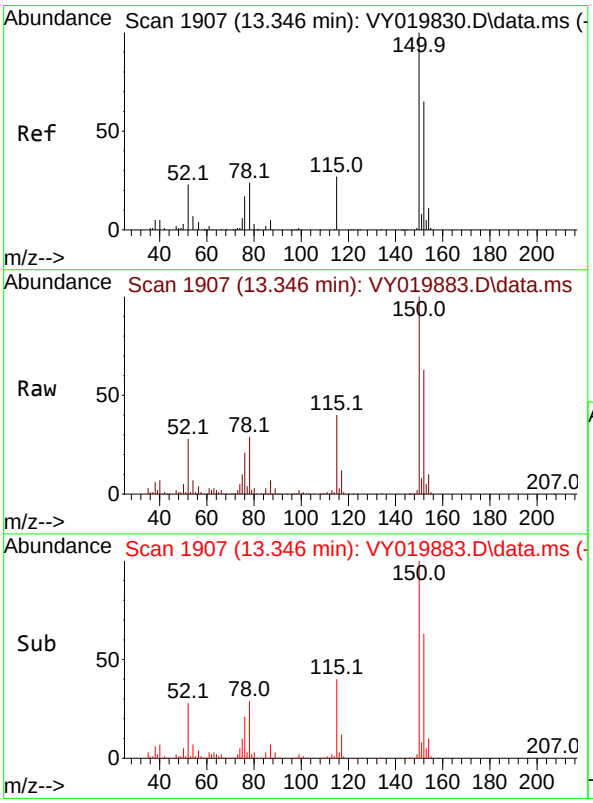
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019883.D
Acq: 14 Oct 2024 10:31

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

Tgt Ion:117 Resp: 470368

Ion	Ratio	Lower	Upper
117	100		
82	58.8	42.4	63.6
119	31.3	25.9	38.9

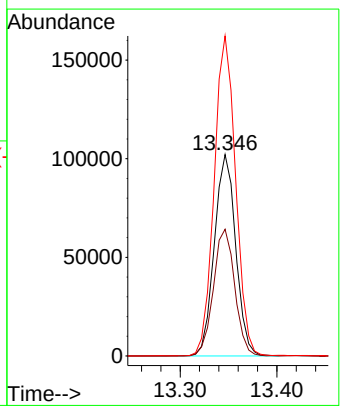




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019883.D
Acq: 14 Oct 2024 10:31

Tgt Ion:152 Resp: 156619

Ion	Ratio	Lower	Upper
152	100		
115	63.0	28.2	84.7
150	159.5	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019883.D
Acq On : 14 Oct 2024 10:31
Operator : SY/MD
Sample : VY1014SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

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: VY019883.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	4.622	466	476	484	rBV7	6467	20193	1.11%	0.218%
2	6.890	838	848	863	rBV	44706	140168	7.70%	1.511%
3	7.640	959	971	976	rBV	241828	590868	32.47%	6.368%
4	7.713	976	983	995	rVB	384432	888483	48.83%	9.575%
5	8.067	1027	1041	1055	rBV2	232130	570570	31.36%	6.149%
6	8.616	1121	1131	1143	rBV	664075	1339046	73.60%	14.431%
7	10.109	1365	1376	1389	rBV	1060941	1819479	100.00%	19.608%
8	10.512	1434	1442	1448	rBV2	56430	108517	5.96%	1.169%
9	10.871	1493	1501	1510	rBV3	20426	41726	2.29%	0.450%
10	11.249	1557	1563	1571	rVB2	9320	18305	1.01%	0.197%
11	11.414	1583	1590	1604	rBV	967195	1548142	85.09%	16.684%
12	12.408	1745	1753	1763	rBV2	660811	1079213	59.31%	11.631%
13	13.346	1900	1907	1914	rVB	699218	1070011	58.81%	11.531%
14	13.883	1991	1995	2003	rVB2	11735	20694	1.14%	0.223%
15	15.224	2209	2215	2220	rVB	15323	23676	1.30%	0.255%

Sum of corrected areas: 9279091

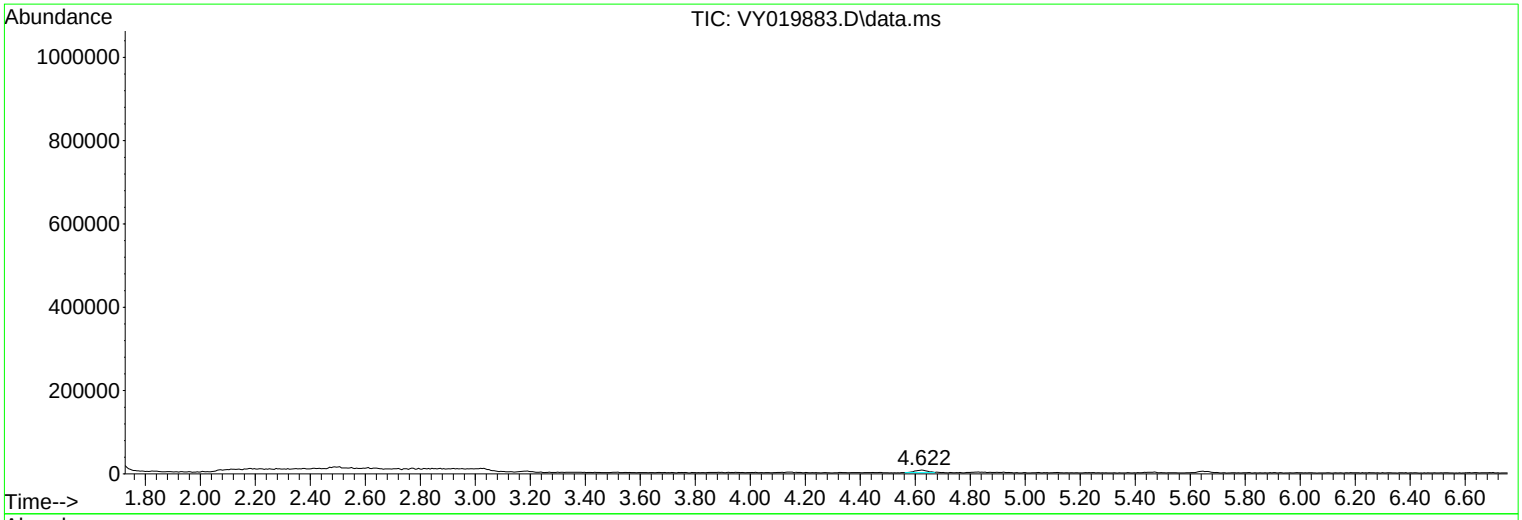
Sample Results: **VY019883.D**

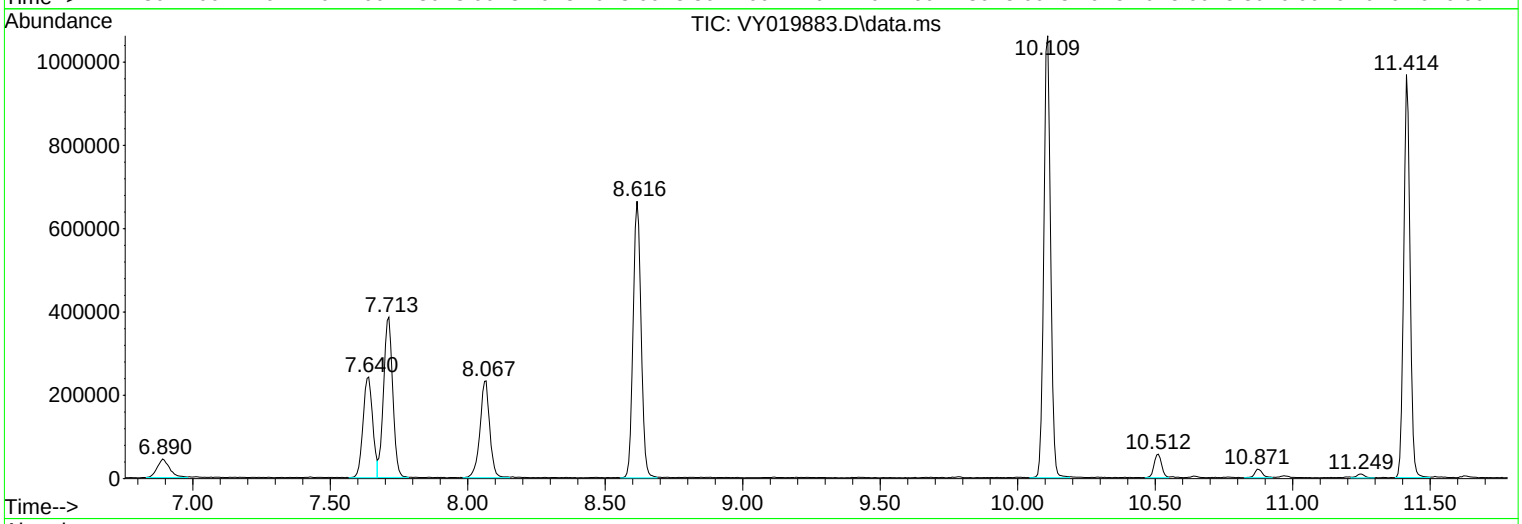
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019883.D
Acq On : 14 Oct 2024 10:31
Operator : SY/MD
Sample : VY1014SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

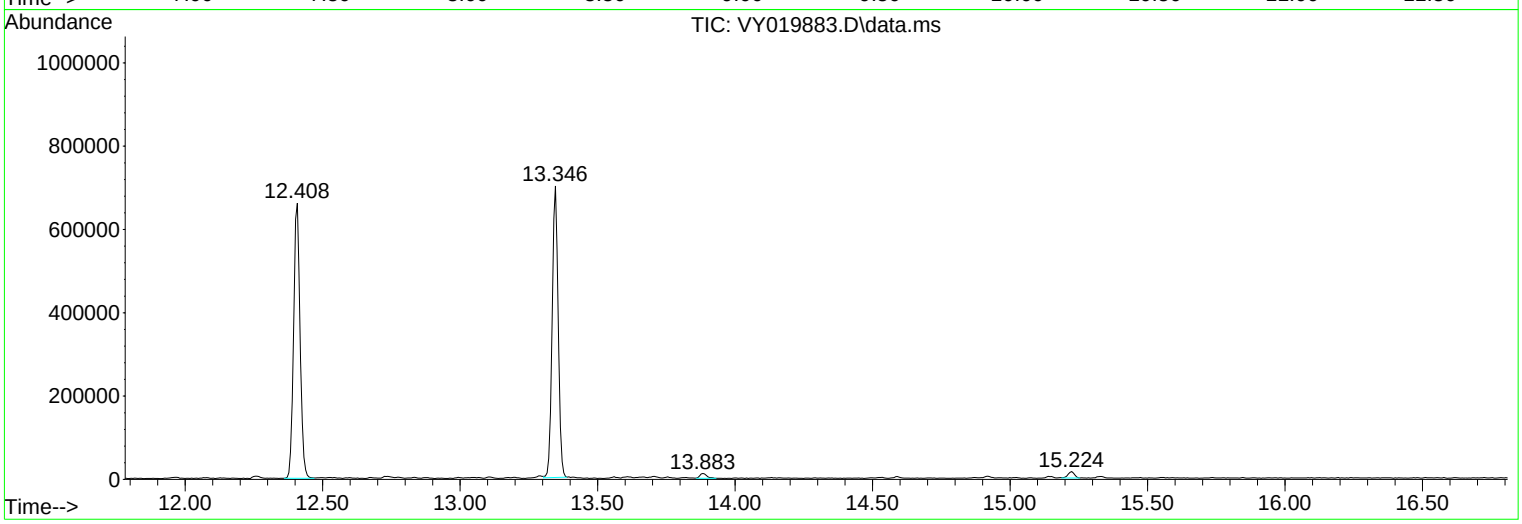
Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

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\VY101424\
Data File : VY019883.D
Acq On : 14 Oct 2024 10:31
Operator : SY/MD
Sample : VY1014SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

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\VY101424\
Data File : VY019883.D
Acq On : 14 Oct 2024 10:31
Operator : SY/MD
Sample : VY1014SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043392.D
Acq On : 15 Oct 2024 09:54
Operator : JC/MD
Sample : VX1015WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 07:16:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	98951	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	177022	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	148487	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66651	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	87646	54.236	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.480%			
35) Dibromofluoromethane	5.385	113	63812	52.270	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.540%			
50) Toluene-d8	8.647	98	211521	49.997	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.000%			
62) 4-Bromofluorobenzene	11.079	95	78763	51.245	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	23323	20.264	ug/l	95
3) Chloromethane	1.294	50	24303	20.502	ug/l	97
4) Vinyl Chloride	1.374	62	25006	21.060	ug/l	99
5) Bromomethane	1.599	94	10482	21.608	ug/l	94
6) Chloroethane	1.666	64	10924	24.706	ug/l	99
7) Trichlorofluoromethane	1.874	101	39936	22.511	ug/l	99
8) Diethyl Ether	2.136	74	14694	21.284	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.325	101	23656	21.367	ug/l	99
10) Methyl Iodide	2.447	142	28258	20.322	ug/l	98
11) Tert butyl alcohol	2.995	59	35128	114.230	ug/l	97
12) 1,1-Dichloroethene	2.313	96	22270	20.257	ug/l	99
13) Acrolein	2.239	56	23974	82.540	ug/l	99
14) Allyl chloride	2.660	41	39226	21.718	ug/l	99
15) Acrylonitrile	3.069	53	67200	107.017	ug/l	97
16) Acetone	2.386	43	79100	117.209	ug/l	99
17) Carbon Disulfide	2.508	76	47165	17.638	ug/l	97
18) Methyl Acetate	2.709	43	33879	20.012	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	86315	21.945	ug/l	99
20) Methylene Chloride	2.788	84	25276	20.313	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	22907	20.936	ug/l	95
22) Diisopropyl ether	3.764	45	80623	22.192	ug/l	96
23) Vinyl Acetate	3.721	43	355067	92.031	ug/l	99
24) 1,1-Dichloroethane	3.605	63	46320	21.886	ug/l	100
25) 2-Butanone	4.562	43	101614	109.814	ug/l	100
26) 2,2-Dichloropropane	4.471	77	44797	22.246	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	29088	21.317	ug/l	98
28) Bromochloromethane	4.898	49	16388	19.627	ug/l	94
29) Tetrahydrofuran	5.007	42	62156	105.443	ug/l	98
30) Chloroform	5.093	83	50989	21.938	ug/l	99
31) Cyclohexane	5.464	56	37680	21.609	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	46562	21.811	ug/l	100
36) 1,1-Dichloropropene	5.690	75	31803	20.621	ug/l	99
37) Ethyl Acetate	4.715	43	38492	20.783	ug/l	99
38) Carbon Tetrachloride	5.672	117	37705	20.651	ug/l	99
39) Methylcyclohexane	7.379	83	40363	20.808	ug/l	99
40) Benzene	6.038	78	98682	21.104	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043392.D
Acq On : 15 Oct 2024 09:54
Operator : JC/MD
Sample : VX1015WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 07:16:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	20170	20.921	ug/l		97
42) 1,2-Dichloroethane	6.086	62	41484	21.771	ug/l		100
43) Isopropyl Acetate	6.342	43	64748	21.165	ug/l		98
44) Trichloroethene	7.123	130	25252	20.360	ug/l		92
45) 1,2-Dichloropropane	7.434	63	24696	21.521	ug/l		97
46) Dibromomethane	7.580	93	19617	21.334	ug/l		98
47) Bromodichloromethane	7.818	83	36409	20.140	ug/l		98
48) Methyl methacrylate	7.690	41	30277	20.171	ug/l		98
49) 1,4-Dioxane	7.671	88	11638	398.868	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	191598	103.122	ug/l		99
52) Toluene	8.714	92	61038	20.828	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	37314	20.771	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	39815	20.664	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	24683	21.193	ug/l		98
56) Ethyl methacrylate	9.116	69	39487	20.737	ug/l		98
57) 1,3-Dichloropropane	9.305	76	41841	21.093	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	87091	101.469	ug/l		99
59) 2-Hexanone	9.433	43	147855	105.233	ug/l		99
60) Dibromochloromethane	9.519	129	27068	20.033	ug/l		100
61) 1,2-Dibromoethane	9.610	107	26272	20.995	ug/l		97
64) Tetrachloroethene	9.269	164	22377	21.718	ug/l		95
65) Chlorobenzene	10.079	112	66894	20.955	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	23706	21.001	ug/l		97
67) Ethyl Benzene	10.189	91	117854	21.359	ug/l		99
68) m/p-Xylenes	10.299	106	86834	41.642	ug/l		98
69) o-Xylene	10.640	106	44049	21.258	ug/l		98
70) Styrene	10.653	104	71067	21.163	ug/l		99
71) Bromoform	10.799	173	16531	19.117	ug/l	#	99
73) Isopropylbenzene	10.957	105	112733	21.755	ug/l		100
74) N-amyl acetate	10.842	43	51665	21.003	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	36569	21.663	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	31916m	21.588	ug/l		
77) Bromobenzene	11.195	156	26298	20.854	ug/l		97
78) n-propylbenzene	11.305	91	125998	22.149	ug/l		100
79) 2-Chlorotoluene	11.360	91	79382	21.705	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	93304	21.828	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	11576	20.293	ug/l		95
82) 4-Chlorotoluene	11.451	91	90686	21.767	ug/l		99
83) tert-Butylbenzene	11.713	119	95578	21.703	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	94975	22.082	ug/l		100
85) sec-Butylbenzene	11.890	105	112383	21.527	ug/l		100
86) p-Isopropyltoluene	12.006	119	94854	21.778	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	47050	21.180	ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	47505	20.742	ug/l		99
89) n-Butylbenzene	12.329	91	78372	21.493	ug/l		98
90) Hexachloroethane	12.536	117	16249	19.892	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	48073	21.161	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8171	19.825	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	26405	20.161	ug/l		98
94) Hexachlorobutadiene	13.725	225	11102	21.383	ug/l		97
95) Naphthalene	13.774	128	98259	20.408	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	28648	21.200	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043392.D
Acq On : 15 Oct 2024 09:54
Operator : JC/MD
Sample : VX1015WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 07:16:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

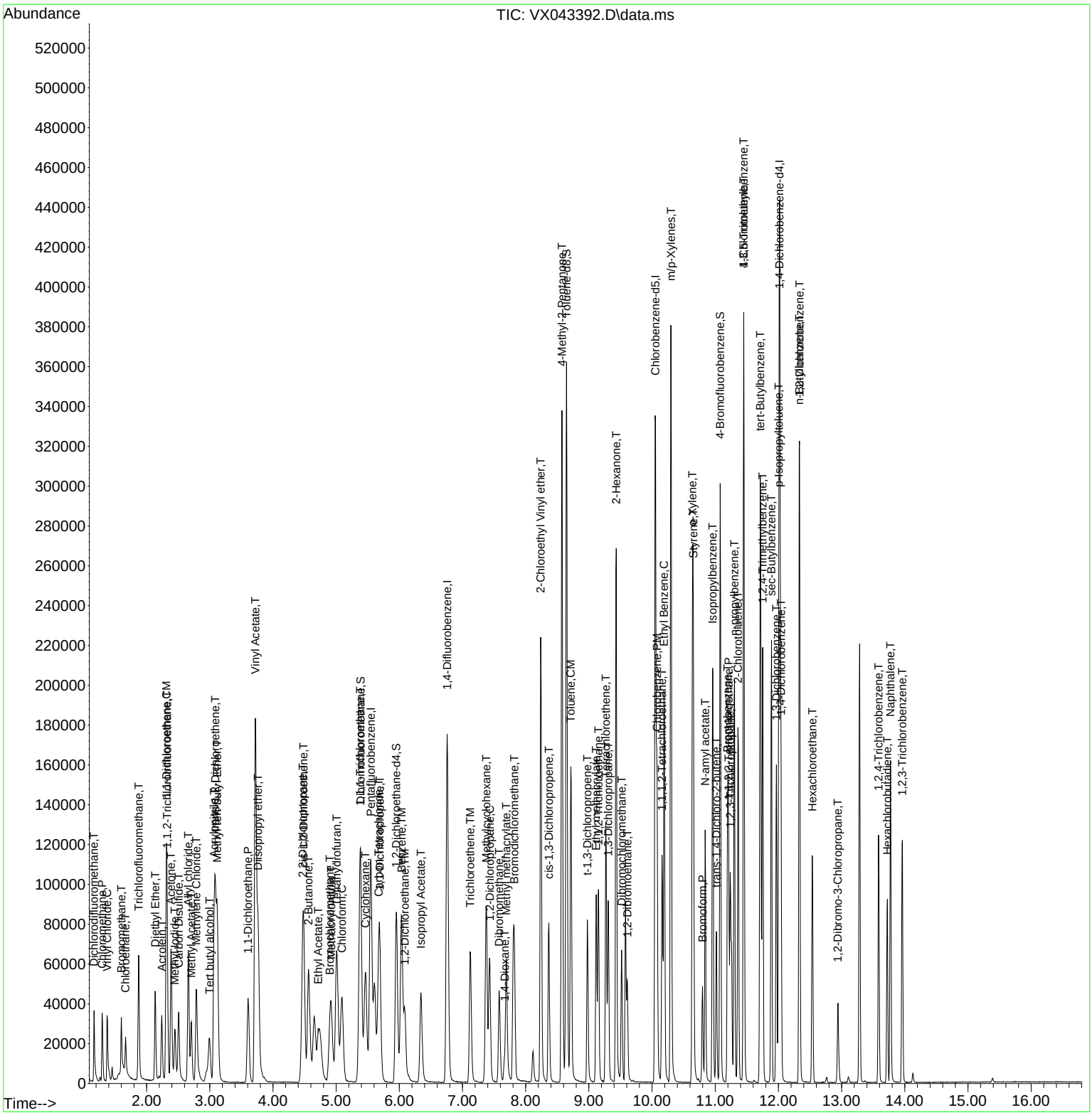
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043392.D
Acq On : 15 Oct 2024 09:54
Operator : JC/MD
Sample : VX1015WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 07:16:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019884.D
Acq On : 14 Oct 2024 11:56
Operator : SY/MD
Sample : VY1014SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 15 01:33:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	286988	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	511012	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	442973	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	215154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	194886	55.151	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.300%			
35) Dibromofluoromethane	7.640	113	185574	55.032	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.060%			
50) Toluene-d8	10.109	98	656078	52.685	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.380%			
62) 4-Bromofluorobenzene	12.401	95	239750	53.283	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 106.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	48103	18.005	ug/l	100
3) Chloromethane	2.074	50	68784	19.782	ug/l	98
4) Vinyl Chloride	2.208	62	73094	19.103	ug/l	99
5) Bromomethane	2.598	94	47520	19.621	ug/l	97
6) Chloroethane	2.739	64	49103	19.102	ug/l	97
7) Trichlorofluoromethane	3.062	101	107778	18.929	ug/l	94
8) Diethyl Ether	3.458	74	34268	19.803	ug/l	78
9) 1,1,2-Trichlorotrifluo...	3.830	101	65639	19.820	ug/l	91
10) Methyl Iodide	4.013	142	56153	16.765	ug/l	91
11) Tert butyl alcohol	4.854	59	36670	110.770	ug/l #	84
12) 1,1-Dichloroethene	3.799	96	55320	17.968	ug/l	83
13) Acrolein	3.659	56	27313	105.190	ug/l	95
14) Allyl chloride	4.391	41	107527	19.356	ug/l #	91
15) Acrylonitrile	5.061	53	87333	110.341	ug/l	98
16) Acetone	3.873	43	98031	106.570	ug/l #	80
17) Carbon Disulfide	4.110	76	128726	15.599	ug/l	99
18) Methyl Acetate	4.391	43	44678	22.547	ug/l #	88
19) Methyl tert-butyl Ether	5.128	73	179719	20.318	ug/l	99
20) Methylene Chloride	4.628	84	74794	21.547	ug/l #	89
21) trans-1,2-Dichloroethene	5.116	96	62725	18.719	ug/l	86
22) Diisopropyl ether	6.018	45	255869	21.146	ug/l #	87
23) Vinyl Acetate	5.964	43	707408	101.980	ug/l	94
24) 1,1-Dichloroethane	5.921	63	138940	20.657	ug/l	97
25) 2-Butanone	6.896	43	135756	110.256	ug/l #	78
26) 2,2-Dichloropropane	6.884	77	118851	19.841	ug/l	92
27) cis-1,2-Dichloroethene	6.896	96	85421	20.628	ug/l	83
28) Bromochloromethane	7.244	49	66566	22.485	ug/l #	73
29) Tetrahydrofuran	7.262	42	76767	109.194	ug/l #	82
30) Chloroform	7.427	83	143668	20.954	ug/l	98
31) Cyclohexane	7.707	56	106559	18.048	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	118528	19.726	ug/l	94
36) 1,1-Dichloropropene	7.841	75	91161	18.765	ug/l	95
37) Ethyl Acetate	6.988	43	56961	22.486	ug/l	95
38) Carbon Tetrachloride	7.817	117	101054	19.403	ug/l	98
39) Methylcyclohexane	9.109	83	106867	17.458	ug/l #	87
40) Benzene	8.085	78	289826	19.713	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019884.D
Acq On : 14 Oct 2024 11:56
Operator : SY/MD
Sample : VY1014SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 15 01:33:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	30533m	22.270	ug/l		
42) 1,2-Dichloroethane	8.158	62	87951	20.822	ug/l		94
43) Isopropyl Acetate	8.201	43	106325	20.581	ug/l	#	77
44) Trichloroethene	8.866	130	68132	19.133	ug/l		95
45) 1,2-Dichloropropane	9.140	63	75472	20.509	ug/l		99
46) Dibromomethane	9.231	93	40949	20.367	ug/l		89
47) Bromodichloromethane	9.426	83	109886	20.590	ug/l		99
48) Methyl methacrylate	9.225	41	46743	20.569	ug/l	#	82
49) 1,4-Dioxane	9.225	88	9776	434.426	ug/l	#	94
51) 4-Methyl-2-Pentanone	9.999	43	277497	105.307	ug/l		88
52) Toluene	10.170	92	183986	20.047	ug/l		96
53) t-1,3-Dichloropropene	10.396	75	94027	19.582	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	110891	19.572	ug/l	#	85
55) 1,1,2-Trichloroethane	10.573	97	53963	20.371	ug/l		91
56) Ethyl methacrylate	10.438	69	78072	20.540	ug/l	#	75
57) 1,3-Dichloropropane	10.719	76	97121	20.877	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	180446	101.976	ug/l		92
59) 2-Hexanone	10.762	43	198720	105.585	ug/l		87
60) Dibromochloromethane	10.914	129	68067	20.020	ug/l		99
61) 1,2-Dibromoethane	11.011	107	46017	19.224	ug/l		97
64) Tetrachloroethene	10.646	164	56022	17.780	ug/l	#	90
65) Chlorobenzene	11.438	112	199006	19.642	ug/l		93
66) 1,1,1,2-Tetrachloroethane	11.517	131	67623	19.727	ug/l		99
67) Ethyl Benzene	11.517	91	357101	19.403	ug/l		100
68) m/p-Xylenes	11.627	106	259364	38.157	ug/l		90
69) o-Xylene	11.956	106	126659	19.394	ug/l		92
70) Styrene	11.969	104	219312	19.904	ug/l		96
71) Bromoform	12.133	173	36626	19.959	ug/l	#	99
73) Isopropylbenzene	12.255	105	343770	18.996	ug/l		98
74) N-amyl acetate	12.072	43	93172	19.438	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	68520	21.308	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	48865m	11.594	ug/l		
77) Bromobenzene	12.530	156	73677	19.185	ug/l		83
78) n-propylbenzene	12.597	91	425122	19.441	ug/l		97
79) 2-Chlorotoluene	12.682	91	241101	19.232	ug/l		95
80) 1,3,5-Trimethylbenzene	12.737	105	277967	19.019	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.304	75	18904	18.104	ug/l	#	80
82) 4-Chlorotoluene	12.779	91	250672	19.556	ug/l		94
83) tert-Butylbenzene	12.999	119	258079	19.711	ug/l		95
84) 1,2,4-Trimethylbenzene	13.042	105	277671	19.163	ug/l		96
85) sec-Butylbenzene	13.176	105	379087	19.379	ug/l		98
86) p-Isopropyltoluene	13.292	119	300873	18.941	ug/l		96
87) 1,3-Dichlorobenzene	13.285	146	150643	19.424	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	148325	19.468	ug/l		96
89) n-Butylbenzene	13.615	91	302800	19.522	ug/l		97
90) Hexachloroethane	13.877	117	57159	18.480	ug/l		89
91) 1,2-Dichlorobenzene	13.657	146	135679	19.911	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10094	19.669	ug/l		73
93) 1,2,4-Trichlorobenzene	14.919	180	70176	18.366	ug/l		98
94) Hexachlorobutadiene	15.023	225	38843	18.285	ug/l		99
95) Naphthalene	15.145	128	129338	17.947	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	58472	18.103	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019884.D
Acq On : 14 Oct 2024 11:56
Operator : SY/MD
Sample : VY1014SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 15 01:33:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

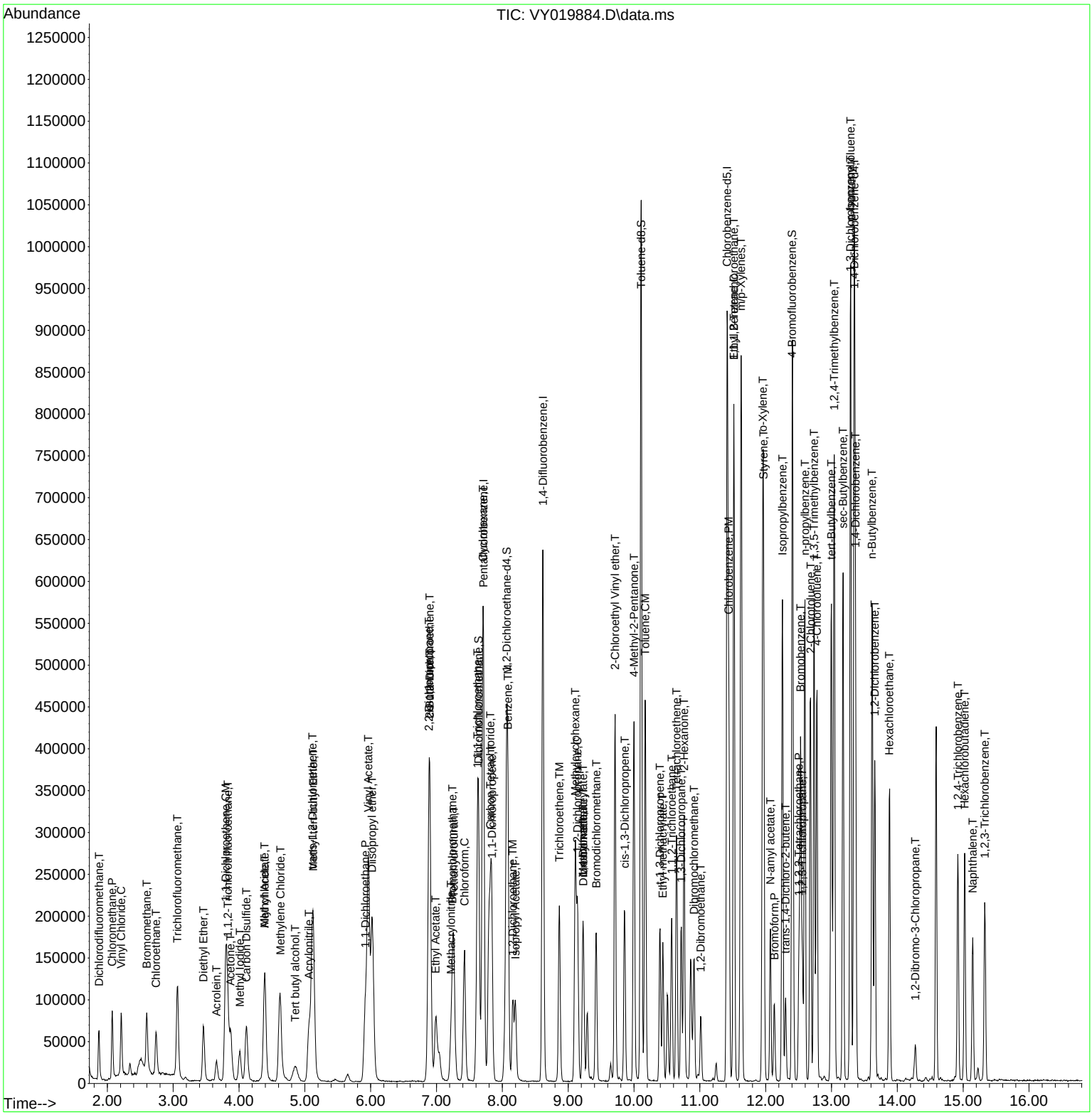
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019884.D
Acq On : 14 Oct 2024 11:56
Operator : SY/MD
Sample : VY1014SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 15 01:33:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043393.D
Acq On : 15 Oct 2024 10:28
Operator : JC/MD
Sample : VX1015WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 07:18:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	94177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	163248	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	138792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	64769	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	82375	53.558	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.120%			
35) Dibromofluoromethane	5.379	113	59250	52.628	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.260%			
50) Toluene-d8	8.647	98	196618	50.396	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.800%			
62) 4-Bromofluorobenzene	11.079	95	74341	52.449	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	22139	20.210	ug/l	99
3) Chloromethane	1.294	50	22068	19.560	ug/l	95
4) Vinyl Chloride	1.374	62	23141	20.477	ug/l	98
5) Bromomethane	1.599	94	9638	20.875	ug/l	98
6) Chloroethane	1.666	64	8918	21.191	ug/l	95
7) Trichlorofluoromethane	1.867	101	35219	20.858	ug/l	100
8) Diethyl Ether	2.136	74	14248	21.684	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	22474	21.329	ug/l	99
10) Methyl Iodide	2.447	142	26795	20.246	ug/l	99
11) Tert butyl alcohol	2.995	59	33618	114.861	ug/l	98
12) 1,1-Dichloroethene	2.312	96	20697	19.780	ug/l	100
13) Acrolein	2.239	56	23885	86.402	ug/l	100
14) Allyl chloride	2.660	41	36146	21.027	ug/l	98
15) Acrylonitrile	3.068	53	63848	106.833	ug/l	98
16) Acetone	2.386	43	71817	111.812	ug/l	97
17) Carbon Disulfide	2.501	76	44038	17.303	ug/l	98
18) Methyl Acetate	2.703	43	32856	20.391	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	82789	22.115	ug/l	99
20) Methylene Chloride	2.788	84	23748	20.053	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	21885	21.016	ug/l	93
22) Diisopropyl ether	3.757	45	76139	22.021	ug/l	96
23) Vinyl Acetate	3.721	43	340312	92.621	ug/l	100
24) 1,1-Dichloroethane	3.605	63	43445	21.568	ug/l	99
25) 2-Butanone	4.562	43	97464	110.668	ug/l	100
26) 2,2-Dichloropropane	4.471	77	41320	21.560	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	27949	21.520	ug/l	99
28) Bromochloromethane	4.897	49	15276	19.223	ug/l	99
29) Tetrahydrofuran	5.001	42	59701	106.412	ug/l	99
30) Chloroform	5.086	83	47716	21.571	ug/l	99
31) Cyclohexane	5.458	56	35068	21.130	ug/l	93
32) 1,1,1-Trichloroethane	5.379	97	43460	21.390	ug/l	99
36) 1,1-Dichloropropene	5.684	75	29982	21.080	ug/l	100
37) Ethyl Acetate	4.714	43	37352	21.869	ug/l	98
38) Carbon Tetrachloride	5.666	117	35190	20.900	ug/l	100
39) Methylcyclohexane	7.373	83	39126	21.873	ug/l	99
40) Benzene	6.031	78	91496	21.218	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043393.D
Acq On : 15 Oct 2024 10:28
Operator : JC/MD
Sample : VX1015WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 07:18:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	19944	22.432	ug/l		98
42) 1,2-Dichloroethane	6.080	62	39058	22.227	ug/l		100
43) Isopropyl Acetate	6.336	43	61296	21.728	ug/l		100
44) Trichloroethene	7.123	130	24091	21.063	ug/l		98
45) 1,2-Dichloropropane	7.427	63	22986	21.721	ug/l		93
46) Dibromomethane	7.580	93	18255	21.527	ug/l		99
47) Bromodichloromethane	7.818	83	34391	20.629	ug/l		98
48) Methyl methacrylate	7.696	41	28986	20.941	ug/l		98
49) 1,4-Dioxane	7.665	88	11902	442.334	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	183000	106.805	ug/l		98
52) Toluene	8.714	92	58359	21.594	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	35874	21.654	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	37527	21.120	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	23694	22.060	ug/l		98
56) Ethyl methacrylate	9.116	69	38883	22.143	ug/l		99
57) 1,3-Dichloropropane	9.305	76	40631	22.211	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	83942	106.052	ug/l		99
59) 2-Hexanone	9.427	43	141055	108.864	ug/l		100
60) Dibromochloromethane	9.518	129	25322	20.322	ug/l		100
61) 1,2-Dibromoethane	9.604	107	24747	21.445	ug/l		99
64) Tetrachloroethene	9.269	164	21553	22.380	ug/l		94
65) Chlorobenzene	10.079	112	63151	21.164	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	22901	21.705	ug/l		99
67) Ethyl Benzene	10.189	91	110945	21.511	ug/l		100
68) m/p-Xylenes	10.299	106	83051	42.610	ug/l		100
69) o-Xylene	10.640	106	41106	21.224	ug/l		100
70) Styrene	10.652	104	66633	21.229	ug/l		99
71) Bromoform	10.799	173	15643	19.354	ug/l	#	98
73) Isopropylbenzene	10.957	105	107036	21.256	ug/l		100
74) N-amyl acetate	10.841	43	49554	20.730	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	35958	21.920	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	30047m	20.915	ug/l		
77) Bromobenzene	11.195	156	25289	20.637	ug/l		99
78) n-propylbenzene	11.305	91	118732	21.478	ug/l		100
79) 2-Chlorotoluene	11.360	91	75411	21.219	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	89589	21.568	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	10947	19.748	ug/l		96
82) 4-Chlorotoluene	11.451	91	85935	21.226	ug/l		99
83) tert-Butylbenzene	11.713	119	89828	20.990	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	90744	21.712	ug/l		99
85) sec-Butylbenzene	11.890	105	109367	21.558	ug/l		100
86) p-Isopropyltoluene	12.006	119	92085	21.756	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	45995	21.307	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	45533	20.459	ug/l		98
89) n-Butylbenzene	12.329	91	77641	21.911	ug/l		98
90) Hexachloroethane	12.536	117	15158	19.096	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	46036	20.853	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7957	19.867	ug/l		95
93) 1,2,4-Trichlorobenzene	13.591	180	26928	21.158	ug/l		98
94) Hexachlorobutadiene	13.725	225	10965	21.733	ug/l		96
95) Naphthalene	13.774	128	98215	20.992	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	27673	21.074	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043393.D
Acq On : 15 Oct 2024 10:28
Operator : JC/MD
Sample : VX1015WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 07:18:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

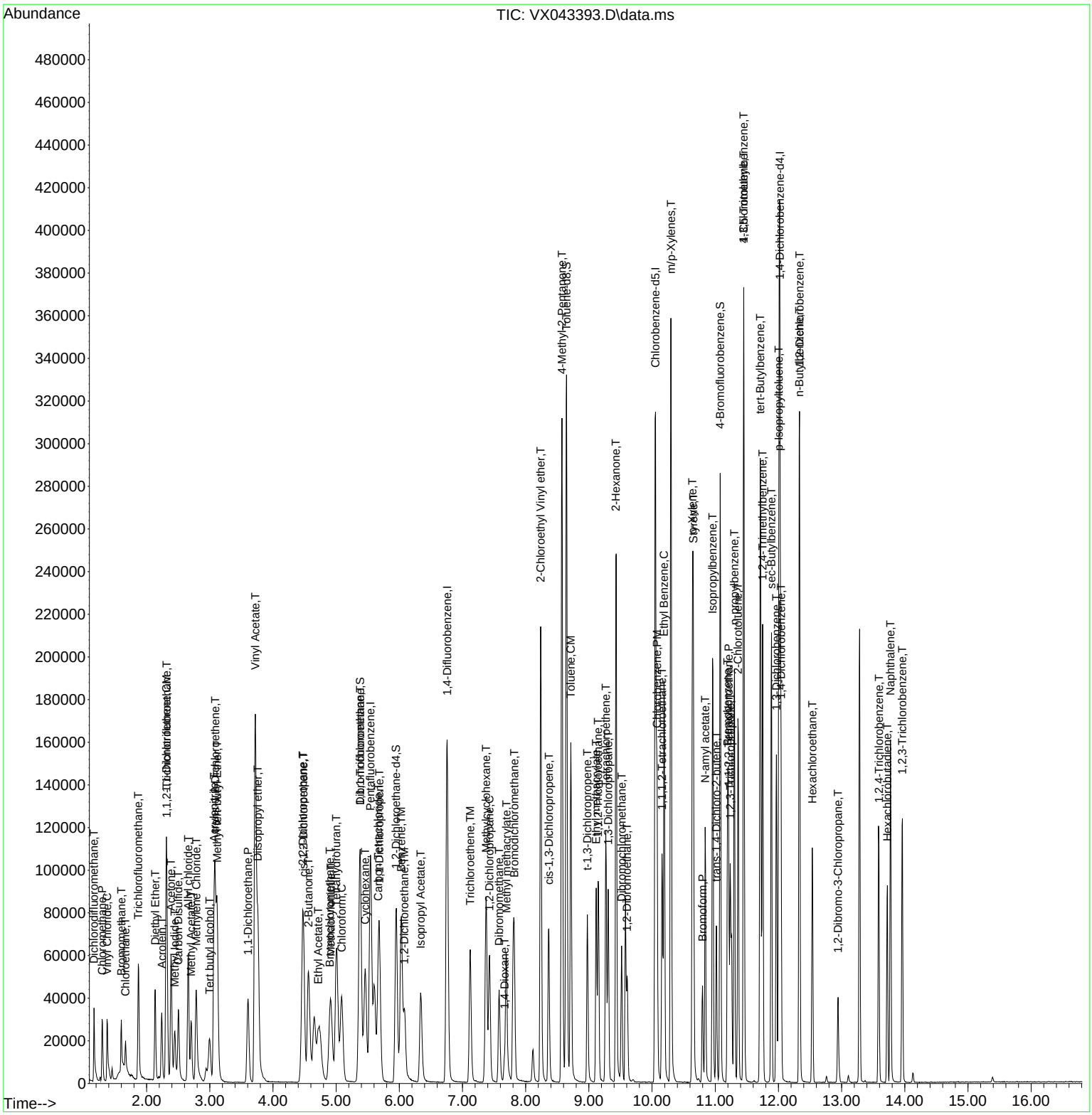
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Data File : VX043393.D
Acq On : 15 Oct 2024 10:28
Operator : JC/MD
Sample : VX1015WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 07:18:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019885.D
Acq On : 14 Oct 2024 12:18
Operator : SY/MD
Sample : VY1014SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 15 01:34:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	289295	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	513238	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	439692	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	211812	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	194881	54.710	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.420%			
35) Dibromofluoromethane	7.634	113	183442	54.164	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.320%			
50) Toluene-d8	10.103	98	653656	52.263	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.520%			
62) 4-Bromofluorobenzene	12.401	95	232768	51.507	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 103.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	49823	18.500	ug/l	97
3) Chloromethane	2.068	50	66467	18.963	ug/l	100
4) Vinyl Chloride	2.202	62	70806	18.357	ug/l	98
5) Bromomethane	2.592	94	47737	19.553	ug/l	96
6) Chloroethane	2.738	64	49763	19.204	ug/l	94
7) Trichlorofluoromethane	3.062	101	108545	18.912	ug/l	98
8) Diethyl Ether	3.458	74	34351	19.693	ug/l	79
9) 1,1,2-Trichlorotrifluo...	3.811	101	63509	19.024	ug/l	92
10) Methyl Iodide	4.007	142	61618	18.249	ug/l	92
11) Tert butyl alcohol	4.866	59	36968	110.779	ug/l #	92
12) 1,1-Dichloroethene	3.787	96	56853	18.319	ug/l #	80
13) Acrolein	3.653	56	26366	100.733	ug/l	92
14) Allyl chloride	4.384	41	108345	19.348	ug/l #	90
15) Acrylonitrile	5.061	53	87355	109.489	ug/l	98
16) Acetone	3.878	43	91504	98.682	ug/l #	81
17) Carbon Disulfide	4.104	76	129094	15.519	ug/l	99
18) Methyl Acetate	4.391	43	48048	24.054	ug/l #	88
19) Methyl tert-butyl Ether	5.116	73	184107	20.648	ug/l	99
20) Methylene Chloride	4.616	84	76106	21.758	ug/l #	82
21) trans-1,2-Dichloroethene	5.122	96	63449	18.784	ug/l	88
22) Diisopropyl ether	6.024	45	259597	21.283	ug/l #	89
23) Vinyl Acetate	5.963	43	710353	101.588	ug/l #	90
24) 1,1-Dichloroethane	5.915	63	140400	20.707	ug/l	95
25) 2-Butanone	6.896	43	130706	105.308	ug/l	89
26) 2,2-Dichloropropane	6.890	77	113064	18.725	ug/l	96
27) cis-1,2-Dichloroethene	6.890	96	83985	20.120	ug/l	84
28) Bromochloromethane	7.244	49	66541	22.297	ug/l #	72
29) Tetrahydrofuran	7.262	42	75025	105.866	ug/l #	83
30) Chloroform	7.421	83	143205	20.719	ug/l	100
31) Cyclohexane	7.701	56	104479	17.554	ug/l	92
32) 1,1,1-Trichloroethane	7.616	97	119909	19.796	ug/l	94
36) 1,1-Dichloropropene	7.835	75	91946	18.844	ug/l	96
37) Ethyl Acetate	6.988	43	52505	20.637	ug/l	99
38) Carbon Tetrachloride	7.817	117	100977	19.304	ug/l	99
39) Methylcyclohexane	9.109	83	104547	17.005	ug/l #	87
40) Benzene	8.079	78	292689	19.821	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019885.D
Acq On : 14 Oct 2024 12:18
Operator : SY/MD
Sample : VY1014SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 15 01:34:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	31638	22.976	ug/l	#	86
42) 1,2-Dichloroethane	8.158	62	88951	20.967	ug/l		94
43) Isopropyl Acetate	8.201	43	110725	21.339	ug/l	#	86
44) Trichloroethene	8.865	130	67677	18.923	ug/l		92
45) 1,2-Dichloropropane	9.140	63	76949	20.819	ug/l		92
46) Dibromomethane	9.231	93	41471	20.537	ug/l		88
47) Bromodichloromethane	9.426	83	111020	20.713	ug/l		98
48) Methyl methacrylate	9.219	41	47418	20.775	ug/l	#	80
49) 1,4-Dioxane	9.237	88	9056	400.686	ug/l	#	74
51) 4-Methyl-2-Pentanone	9.999	43	283124	106.977	ug/l		89
52) Toluene	10.170	92	181019	19.639	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	95397	19.781	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	111589	19.609	ug/l	#	84
55) 1,1,2-Trichloroethane	10.566	97	54930	20.646	ug/l		98
56) Ethyl methacrylate	10.438	69	79184	20.742	ug/l	#	77
57) 1,3-Dichloropropane	10.713	76	96400	20.633	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	185419	104.332	ug/l		93
59) 2-Hexanone	10.755	43	197266	104.358	ug/l		86
60) Dibromochloromethane	10.908	129	68773	20.139	ug/l		100
61) 1,2-Dibromoethane	11.011	107	49222	20.474	ug/l		98
64) Tetrachloroethene	10.646	164	58233	18.620	ug/l		90
65) Chlorobenzene	11.438	112	200308	19.918	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.511	131	68216	20.048	ug/l		99
67) Ethyl Benzene	11.517	91	353039	19.325	ug/l		100
68) m/p-Xylenes	11.627	106	259242	38.423	ug/l		90
69) o-Xylene	11.950	106	127310	19.639	ug/l		90
70) Styrene	11.968	104	219566	20.076	ug/l		96
71) Bromoform	12.127	173	36675	20.134	ug/l	#	98
73) Isopropylbenzene	12.255	105	341906	19.191	ug/l		98
74) N-amyl acetate	12.066	43	94364	19.998	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	67014	21.169	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	55075m	13.273	ug/l		
77) Bromobenzene	12.529	156	74402	19.680	ug/l		85
78) n-propylbenzene	12.590	91	413060	19.187	ug/l		97
79) 2-Chlorotoluene	12.676	91	242459	19.645	ug/l		93
80) 1,3,5-Trimethylbenzene	12.737	105	275790	19.168	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.298	75	18993	18.476	ug/l	#	80
82) 4-Chlorotoluene	12.773	91	246916	19.566	ug/l		96
83) tert-Butylbenzene	12.993	119	246514	19.125	ug/l		94
84) 1,2,4-Trimethylbenzene	13.041	105	276511	19.384	ug/l		98
85) sec-Butylbenzene	13.169	105	364873	18.946	ug/l		98
86) p-Isopropyltoluene	13.291	119	296612	18.967	ug/l		96
87) 1,3-Dichlorobenzene	13.285	146	147987	19.383	ug/l		96
88) 1,4-Dichlorobenzene	13.365	146	144140	19.217	ug/l		96
89) n-Butylbenzene	13.615	91	289195	18.939	ug/l		98
90) Hexachloroethane	13.877	117	57936	19.026	ug/l		88
91) 1,2-Dichlorobenzene	13.657	146	132055	19.685	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10343	20.472	ug/l		73
93) 1,2,4-Trichlorobenzene	14.919	180	71420	18.986	ug/l		96
94) Hexachlorobutadiene	15.023	225	38448	18.384	ug/l		97
95) Naphthalene	15.145	128	139475	19.659	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	60307	18.965	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019885.D
Acq On : 14 Oct 2024 12:18
Operator : SY/MD
Sample : VY1014SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 15 01:34:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

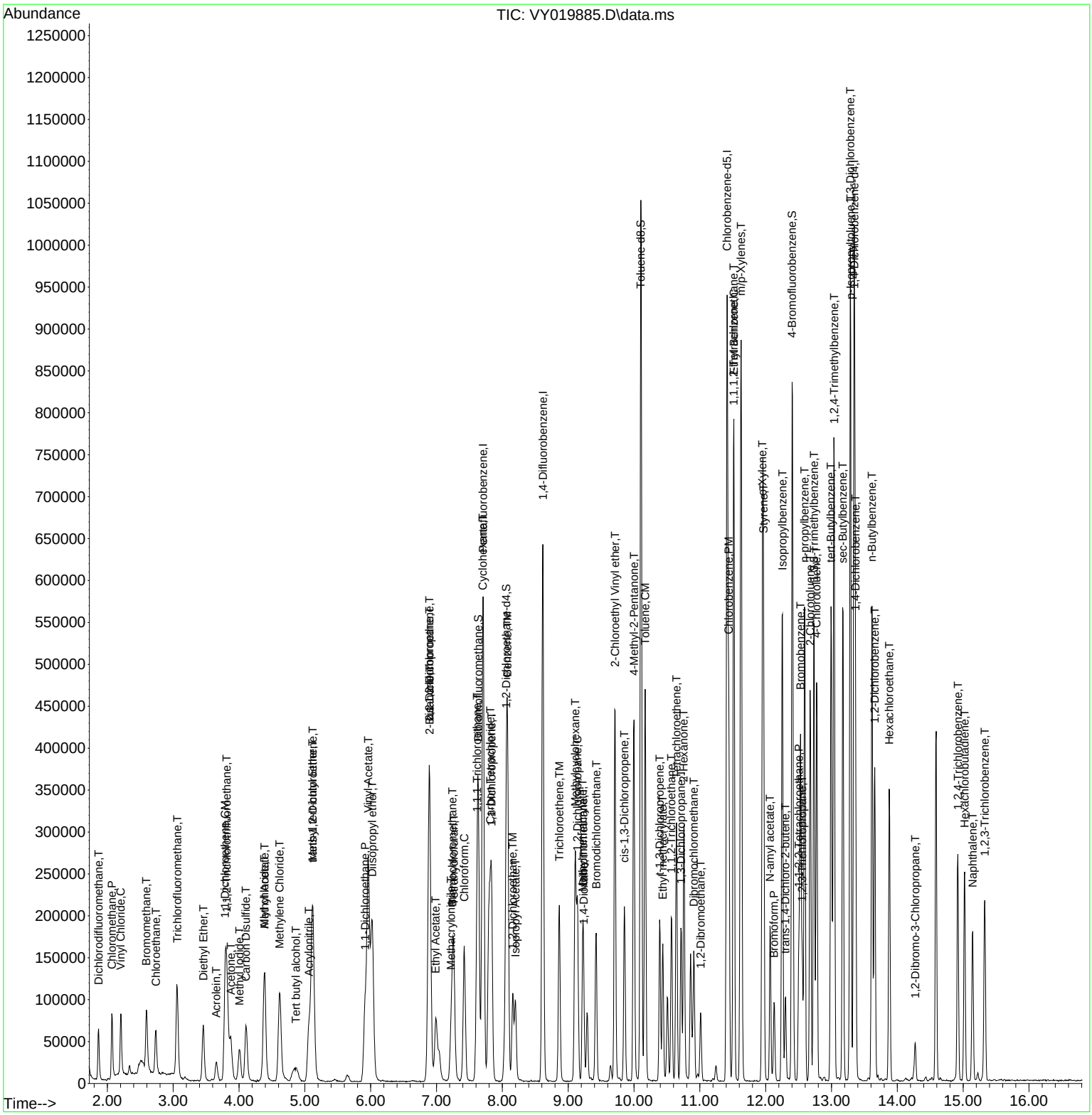
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019885.D
Acq On : 14 Oct 2024 12:18
Operator : SY/MD
Sample : VY1014SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 15 01:34:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024



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

Manual Integration Report

Sequence:	vx100124	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX043207.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:34:38 AM	MMDadoda	10/3/2024 4:57:46 PM	Peak Integrated by Software
VSTDICC001	VX043207.D	1,4-Dichlorobenzene	JOHN	10/2/2024 9:34:38 AM	MMDadoda	10/3/2024 4:57:46 PM	Peak Integrated by Software
VSTDICC001	VX043207.D	Ethyl Acetate	JOHN	10/2/2024 9:34:38 AM	MMDadoda	10/3/2024 4:57:46 PM	Peak Integrated by Software
VSTDICC001	VX043207.D	Methacrylonitrile	JOHN	10/2/2024 9:34:38 AM	MMDadoda	10/3/2024 4:57:46 PM	Peak Integrated by Software
VSTDICC001	VX043207.D	Methyl methacrylate	JOHN	10/2/2024 9:34:38 AM	MMDadoda	10/3/2024 4:57:46 PM	Peak Integrated by Software
VSTDICC005	VX043208.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:34:43 AM	MMDadoda	10/3/2024 4:57:48 PM	Peak Integrated by Software
VSTDICC020	VX043209.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:34:47 AM	SAM	10/2/2024 2:07:53 PM	Peak Integrated by Software
VSTDICC020	VX043209.D	Tert butyl alcohol	JOHN	10/2/2024 9:34:47 AM	SAM	10/2/2024 2:07:53 PM	Peak Integrated by Software
VSTDICCC050	VX043210.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:34:52 AM	SAM	10/2/2024 2:08:05 PM	Peak Integrated by Software
VSTDICCC050	VX043210.D	Tert butyl alcohol	JOHN	10/2/2024 9:34:52 AM	SAM	10/2/2024 2:08:05 PM	Peak Integrated by Software
VSTDICC100	VX043211.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:34:56 AM	SAM	10/2/2024 2:08:06 PM	Peak Integrated by Software
VSTDICC100	VX043211.D	Tert butyl alcohol	JOHN	10/2/2024 9:34:56 AM	SAM	10/2/2024 2:08:06 PM	Peak Integrated by Software
VSTDICC150	VX043212.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:35:01 AM	SAM	10/2/2024 2:08:07 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vx100124	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC150	VX043212.D	Tert butyl alcohol	JOHN	10/2/2024 9:35:01 AM	SAM	10/2/2024 2:08:07 PM	Peak Integrated by Software
VSTDICV050	VX043214.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:35:07 AM	SAM	10/2/2024 2:08:09 PM	Peak Integrated by Software
VSTDICV050	VX043214.D	Tert butyl alcohol	JOHN	10/2/2024 9:35:07 AM	SAM	10/2/2024 2:08:09 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX101524	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX043389.D	1,2,3-Trichloropropane	JOHN	10/16/2024 9:51:16 AM	MMDadoda	10/16/2024 12:15:03 PM	Peak Integrated by Software
VX1015WBS01	VX043392.D	1,2,3-Trichloropropane	JOHN	10/16/2024 9:51:21 AM	MMDadoda	10/16/2024 12:15:05 PM	Peak Integrated by Software
VX1015WBSD01	VX043393.D	1,2,3-Trichloropropane	JOHN	10/16/2024 9:51:25 AM	MMDadoda	10/16/2024 12:15:07 PM	Peak Integrated by Software
VSTDCCC050	VX043412.D	1,2,3-Trichloropropane	JOHN	10/16/2024 9:52:03 AM	MMDadoda	10/16/2024 12:15:15 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

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

Manual Integration Report

Sequence:	VY101424	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY019882.D	1,2,3-Trichloropropane	MMDadoda	10/15/2024 1:19:33 PM	SAM	10/15/2024 1:22:38 PM	Peak Integrated by Software
VY1014SBS01	VY019884.D	1,2,3-Trichloropropane	MMDadoda	10/15/2024 1:19:35 PM	SAM	10/15/2024 1:22:39 PM	Peak Integrated by Software
VY1014SBS01	VY019884.D	Methacrylonitrile	MMDadoda	10/15/2024 1:19:35 PM	SAM	10/15/2024 1:22:39 PM	Peak Integrated by Software
VY1014SBSD01	VY019885.D	1,2,3-Trichloropropane	MMDadoda	10/15/2024 1:19:36 PM	SAM	10/15/2024 1:22:41 PM	Peak Integrated by Software
VSTDCCC050	VY019894.D	1,2,3-Trichloropropane	MMDadoda	10/15/2024 1:19:38 PM	SAM	10/15/2024 1:22:42 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX100124

Review By	John Carlone	Review On	10/2/2024 9:35:24 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/2/2024 2:08:19 PM		
SubDirectory	VX100124	HP Acquire Method		HP Processing Method	82X100124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130591
Initial Calibration Stds	VP130593,VP130594,VP130595,VP130596,VP130597,VP130598
CCC	VP130592
Internal Standard/PEM	
ICV/I.BLK	VP130599
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043204.D	01 Oct 2024 08:42	JC/MD	Ok
2	VSTDCCC050	VX043205.D	01 Oct 2024 10:24	JC/MD	Not Ok
3	IBLK	VX043206.D	01 Oct 2024 10:50	JC/MD	Ok
4	VSTDICC001	VX043207.D	01 Oct 2024 11:36	JC/MD	Ok,M
5	VSTDICC005	VX043208.D	01 Oct 2024 11:59	JC/MD	Ok,M
6	VSTDICC020	VX043209.D	01 Oct 2024 12:22	JC/MD	Ok,M
7	VSTDICCC050	VX043210.D	01 Oct 2024 12:45	JC/MD	Ok,M
8	VSTDICC100	VX043211.D	01 Oct 2024 13:08	JC/MD	Ok,M
9	VSTDICC150	VX043212.D	01 Oct 2024 13:31	JC/MD	Ok,M
10	IBLK	VX043213.D	01 Oct 2024 13:55	JC/MD	Ok
11	VSTDICV050	VX043214.D	01 Oct 2024 14:38	JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX101524

Review By	John Carlone	Review On	10/16/2024 9:57:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/16/2024 12:15:31 PM		
SubDirectory	VX101524	HP Acquire Method		HP Processing Method	82X100124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130883
Initial Calibration Stds	
CCC	VP130884,VP130885
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043388.D	15 Oct 2024 07:57	JC/MD	Ok
2	VSTDCCC050	VX043389.D	15 Oct 2024 08:26	JC/MD	Ok,M
3	VX1015MBL01	VX043390.D	15 Oct 2024 09:08	JC/MD	Ok
4	VX1015WBL01	VX043391.D	15 Oct 2024 09:31	JC/MD	Ok
5	VX1015WBS01	VX043392.D	15 Oct 2024 09:54	JC/MD	Ok,M
6	VX1015WBSD01	VX043393.D	15 Oct 2024 10:28	JC/MD	Ok,M
7	PB164097TB	VX043394.D	15 Oct 2024 10:51	JC/MD	Ok
8	PB164097ZHE#01	VX043395.D	15 Oct 2024 11:14	JC/MD	Ok
9	PB164097ZHE#02	VX043396.D	15 Oct 2024 11:37	JC/MD	Ok
10	PB164097ZHE#03	VX043397.D	15 Oct 2024 12:00	JC/MD	Ok
11	IBLK	VX043398.D	15 Oct 2024 12:23	JC/MD	Ok
12	P4397-05	VX043399.D	15 Oct 2024 12:46	JC/MD	Ok
13	P4397-04	VX043400.D	15 Oct 2024 13:09	JC/MD	Ok
14	P4403-02	VX043401.D	15 Oct 2024 13:32	JC/MD	Ok
15	P4395-02	VX043402.D	15 Oct 2024 13:56	JC/MD	Ok
16	P3932-03	VX043403.D	15 Oct 2024 14:19	JC/MD	Ok
17	VX1015WBS02	VX043404.D	15 Oct 2024 14:42	JC/MD	Ok,M
18	VX1015WBS03	VX043405.D	15 Oct 2024 15:05	JC/MD	Ok,M
19	VX1015WBS04	VX043406.D	15 Oct 2024 15:28	JC/MD	Ok,M
20	VX1015WBS05	VX043407.D	15 Oct 2024 15:51	JC/MD	Ok
21	VX1015MBS01	VX043408.D	15 Oct 2024 16:15	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX101524

Review By	John Carlone	Review On	10/16/2024 9:57:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/16/2024 12:15:31 PM		
SubDirectory	VX101524	HP Acquire Method		HP Processing Method	82X100124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130883
Initial Calibration Stds	
CCC	VP130884,VP130885
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4395-01	VX043409.D	15 Oct 2024 16:38	JC/MD	Ok
23	P4407-01	VX043410.D	15 Oct 2024 17:01	JC/MD	Ok
24	IBLK	VX043411.D	15 Oct 2024 17:24	JC/MD	Ok
25	VSTDCCC050	VX043412.D	15 Oct 2024 17:47	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 # VY101424

Review By	Mahesh Dadoda	Review On	10/15/2024 1:20:02 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/15/2024 1:22:47 PM		
SubDirectory	VY101424	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP130858
Initial Calibration Stds	
CCC	VP130860,VP130861
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	VY019881.D	14 Oct 2024 09:19	SY/MD	Ok
2	VSTDCCC050	VY019882.D	14 Oct 2024 09:52	SY/MD	Ok,M
3	VY1014SBL01	VY019883.D	14 Oct 2024 10:31	SY/MD	Ok
4	VY1014SBS01	VY019884.D	14 Oct 2024 11:56	SY/MD	Ok,M
5	VY1014SBSD01	VY019885.D	14 Oct 2024 12:18	SY/MD	Ok,M
6	P4377-01	VY019886.D	14 Oct 2024 12:58	SY/MD	Not Ok
7	P4385-11	VY019887.D	14 Oct 2024 13:21	SY/MD	Ok
8	P4385-13	VY019888.D	14 Oct 2024 13:45	SY/MD	Ok
9	P4397-02	VY019889.D	14 Oct 2024 14:08	SY/MD	Ok
10	P4397-01	VY019890.D	14 Oct 2024 14:31	SY/MD	Ok
11	P4376-01RE	VY019891.D	14 Oct 2024 14:55	SY/MD	Confirms
12	P4403-01	VY019892.D	14 Oct 2024 15:22	SY/MD	Ok
13	P4395-01	VY019893.D	14 Oct 2024 16:27	SY/MD	Not Ok
14	VSTDCCC050	VY019894.D	14 Oct 2024 16:50	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX100124

Review By	John Carlone	Review On	10/2/2024 9:35:24 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/2/2024 2:08:19 PM		
SubDirectory	VX100124	HP Acquire Method		HP Processing Method	82X100124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130591
Initial Calibration Stds	VP130593,VP130594,VP130595,VP130596,VP130597,VP130598
CCC	VP130592
Internal Standard/PEM	
ICV/I.BLK	VP130599
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043204.D	01 Oct 2024 08:42		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX043205.D	01 Oct 2024 10:24	Need ICAL	JC/MD	Not Ok
3	IBLK	IBLK	VX043206.D	01 Oct 2024 10:50		JC/MD	Ok
4	VSTDICC001	VSTDICC001	VX043207.D	01 Oct 2024 11:36	%D failed for com.#23	JC/MD	Ok,M
5	VSTDICC005	VSTDICC005	VX043208.D	01 Oct 2024 11:59	QR- comp #23	JC/MD	Ok,M
6	VSTDICC020	VSTDICC020	VX043209.D	01 Oct 2024 12:22		JC/MD	Ok,M
7	VSTDICCC050	VSTDICCC050	VX043210.D	01 Oct 2024 12:45		JC/MD	Ok,M
8	VSTDICC100	VSTDICC100	VX043211.D	01 Oct 2024 13:08		JC/MD	Ok,M
9	VSTDICC150	VSTDICC150	VX043212.D	01 Oct 2024 13:31		JC/MD	Ok,M
10	IBLK	IBLK	VX043213.D	01 Oct 2024 13:55		JC/MD	Ok
11	VSTDICV050	ICVVX100124	VX043214.D	01 Oct 2024 14:38		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX101524

Review By	John Carlone	Review On	10/16/2024 9:57:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/16/2024 12:15:31 PM		
SubDirectory	VX101524	HP Acquire Method		HP Processing Method	82X100124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130883
Initial Calibration Stds	
CCC	VP130884,VP130885
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043388.D	15 Oct 2024 07:57		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX043389.D	15 Oct 2024 08:26	V13516	JC/MD	Ok,M
3	VX1015MBL01	VX1015MBL01	VX043390.D	15 Oct 2024 09:08		JC/MD	Ok
4	VX1015WBL01	VX1015WBL01	VX043391.D	15 Oct 2024 09:31		JC/MD	Ok
5	VX1015WBS01	VX1015WBS01	VX043392.D	15 Oct 2024 09:54		JC/MD	Ok,M
6	VX1015WBSD01	VX1015WBSD01	VX043393.D	15 Oct 2024 10:28		JC/MD	Ok,M
7	PB164097TB	PB164097TB	VX043394.D	15 Oct 2024 10:51		JC/MD	Ok
8	PB164097ZHE#01	PB164097ZHE#01	VX043395.D	15 Oct 2024 11:14		JC/MD	Ok
9	PB164097ZHE#02	PB164097ZHE#02	VX043396.D	15 Oct 2024 11:37		JC/MD	Ok
10	PB164097ZHE#03	PB164097ZHE#03	VX043397.D	15 Oct 2024 12:00		JC/MD	Ok
11	IBLK	IBLK	VX043398.D	15 Oct 2024 12:23		JC/MD	Ok
12	P4397-05	TB-10102024	VX043399.D	15 Oct 2024 12:46	vial A pH<2 TB	JC/MD	Ok
13	P4397-04	WB-301-SW	VX043400.D	15 Oct 2024 13:09	vial A pH<2	JC/MD	Ok
14	P4403-02	Hawthorne TP Soil	VX043401.D	15 Oct 2024 13:32	vial A pH#5.0	JC/MD	Ok
15	P4395-02	F05308-SOLID	VX043402.D	15 Oct 2024 13:56	vial A pH#5.0	JC/MD	Ok
16	P3932-03	FM1	VX043403.D	15 Oct 2024 14:19	vial A pH#5.0	JC/MD	Ok
17	VX1015WBS02	VX1015WBS02	VX043404.D	15 Oct 2024 14:42	For IDOC	JC/MD	Ok,M
18	VX1015WBS03	VX1015WBS03	VX043405.D	15 Oct 2024 15:05	For IDOC	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX101524

Review By	John Carlone	Review On	10/16/2024 9:57:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/16/2024 12:15:31 PM		
SubDirectory	VX101524	HP Acquire Method		HP Processing Method	82X100124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130883
Initial Calibration Stds	
CCC	VP130884,VP130885
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VX1015WBS04	VX1015WBS04	VX043406.D	15 Oct 2024 15:28	For IDOC	JC/MD	Ok,M
20	VX1015WBS05	VX1015WBS05	VX043407.D	15 Oct 2024 15:51	For IDOC	JC/MD	Ok
21	VX1015MBS01	VX1015MBS01	VX043408.D	15 Oct 2024 16:15		JC/MD	Ok,M
22	P4395-01	F05308-SOLID	VX043409.D	15 Oct 2024 16:38		JC/MD	Ok
23	P4407-01	MR-CAM-06	VX043410.D	15 Oct 2024 17:01	vial A pH<2	JC/MD	Ok
24	IBLK	IBLK	VX043411.D	15 Oct 2024 17:24		JC/MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VX043412.D	15 Oct 2024 17:47		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 # VY101424

Review By	Mahesh Dadoda	Review On	10/15/2024 1:20:02 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/15/2024 1:22:47 PM		
SubDirectory	VY101424	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP130858
Initial Calibration Stds	
CCC	VP130860,VP130861
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	VY019881.D	14 Oct 2024 09:19		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY019882.D	14 Oct 2024 09:52		SY/MD	Ok,M
3	VY1014SBL01	VY1014SBL01	VY019883.D	14 Oct 2024 10:31		SY/MD	Ok
4	VY1014SBS01	VY1014SBS01	VY019884.D	14 Oct 2024 11:56		SY/MD	Ok,M
5	VY1014SBSD01	VY1014SBSD01	VY019885.D	14 Oct 2024 12:18		SY/MD	Ok,M
6	P4377-01	HD-01-100924	VY019886.D	14 Oct 2024 12:58	vial-B Not purged	SY/MD	Not Ok
7	P4385-11	SP-6	VY019887.D	14 Oct 2024 13:21	vial-B	SY/MD	Ok
8	P4385-13	SP-7	VY019888.D	14 Oct 2024 13:45	vial-B	SY/MD	Ok
9	P4397-02	WB-301-BOT	VY019889.D	14 Oct 2024 14:08	vial-A	SY/MD	Ok
10	P4397-01	WB-301-TOP	VY019890.D	14 Oct 2024 14:31	vial-A	SY/MD	Ok
11	P4376-01RE	OR-02-100924RE	VY019891.D	14 Oct 2024 14:55	vial-B Internal standard fail	SY/MD	Confirms
12	P4403-01	Hawthorne TP Soil	VY019892.D	14 Oct 2024 15:22	vial-A	SY/MD	Ok
13	P4395-01	F05308-SOLID	VY019893.D	14 Oct 2024 16:27	vial-A Not purged	SY/MD	Not Ok
14	VSTDCCC050	VSTDCCC050EC	VY019894.D	14 Oct 2024 16:50		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**SOIL**			**10/10/24**			**10/11/24**
			VOC-TCLVOA-10	8260D			10/14/24	
P4397-02	**WB-301-BOT**	**SOIL**			**10/10/24**			**10/11/24**
			VOC-TCLVOA-10	8260D			10/14/24	
P4397-04	**WB-301-SW**	**Water**			**10/10/24**			**10/11/24**
			VOC-TCLVOA-10	8260-Low			10/15/24	
P4397-05	**TB-10102024**	**Water**			**10/11/24**			**10/11/24**
			VOC-TCLVOA-10	8260-Low			10/15/24	

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Hit Summary Sheet
SW-846

SDG No.: P4397

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-06	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
VN084462.D	1		10/22/24 18:21	VN102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/Kg
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/Kg
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/Kg
71-43-2	Benzene	0.16	U	0.16	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/Kg
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/Kg
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.6		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	52.1		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	168000	8.224			
540-36-3	1,4-Difluorobenzene	298000	9.1			
3114-55-4	Chlorobenzene-d5	273000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	104000	13.794			

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.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4397-06	WB-301-BOT	1,2-Dichloroethane-d4	50	49.6	99	70 (74)	130 (125)
		Dibromofluoromethane	50	50.0	100	70 (75)	130 (124)
		Toluene-d8	50	52.1	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.3	97	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VN1022WBL01	VN1022WBL01	1,2-Dichloroethane-d4	50	45.7	91	70 (74)	130 (125)
		Dibromofluoromethane	50	50.0	100	70 (75)	130 (124)
		Toluene-d8	50	49.3	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	45.0	90	70 (77)	130 (121)
VN1022WBS01	VN1022WBS01	1,2-Dichloroethane-d4	50	46.2	92	70 (74)	130 (125)
		Dibromofluoromethane	50	49.5	99	70 (75)	130 (124)
		Toluene-d8	50	48.8	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.0	98	70 (77)	130 (121)
VN1022WBSD0	VN1022WBSD01	1,2-Dichloroethane-d4	50	49.1	98	70 (74)	130 (125)
		Dibromofluoromethane	50	49.5	99	70 (75)	130 (124)
		Toluene-d8	50	48.0	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.9	98	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084453.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1022WBS01	Vinyl chloride	20	16.5	ug/L	83			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.2	ug/L	91			70 (74)	130 (110)	
	2-Butanone	100	87.6	ug/L	88			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.8	ug/L	94			70 (77)	130 (113)	
	Chloroform	20	18.7	ug/L	94			70 (79)	130 (113)	
	Benzene	20	18.7	ug/L	94			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.3	ug/L	92			70 (80)	130 (115)	
	Trichloroethene	20	19.0	ug/L	95			70 (77)	130 (113)	
	Tetrachloroethene	20	18.4	ug/L	92			70 (67)	130 (123)	
	Chlorobenzene	20	18.7	ug/L	94			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084454.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1022WBSD01	Vinyl chloride	20	16.5	ug/L	83	0		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	17.9	ug/L	90	1		70 (74)	130 (110)	20 (20)
	2-Butanone	100	92.3	ug/L	92	4		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	18.6	ug/L	93	1		70 (77)	130 (113)	20 (20)
	Chloroform	20	19.4	ug/L	97	3		70 (79)	130 (113)	20 (20)
	Benzene	20	18.9	ug/L	95	1		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	19.6	ug/L	98	6		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	18.8	ug/L	94	1		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	19.2	ug/L	96	4		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.6	ug/L	98	4		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1022WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VN084452.D Lab Sample ID: VN1022WBL01

Date Analyzed: 10/22/2024 Time Analyzed: 13:38

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
VN1022WBS01	VN1022WBS01	VN084453.D	10/22/2024
VN1022WBSD01	VN1022WBSD01	VN084454.D	10/22/2024
WB-301-BOT	P4397-06	VN084462.D	10/22/2024

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.: P4397 SAS No.: P4397 SDG NO.: P4397

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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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VN084449.D BFB Injection Date: 10/22/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:33

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	18.3
75	30.0 - 60.0% of mass 95	51.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	1.2 (1.7) 1
174	50.0 - 100.0% of mass 95	73.9
175	5.0 - 9.0% of mass 174	5.9 (7.9) 1
176	95.0 - 101.0% of mass 174	70.5 (95.4) 1
177	5.0 - 9.0% of mass 176	4.7 (6.7) 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
VSTDCCC050	VSTDCCC050	VN084450.D	10/22/2024	12:50
VN1022WBL01	VN1022WBL01	VN084452.D	10/22/2024	13:38
VN1022WBS01	VN1022WBS01	VN084453.D	10/22/2024	14:01
VN1022WBSD01	VN1022WBSD01	VN084454.D	10/22/2024	14:45
WB-301-BOT	P4397-06	VN084462.D	10/22/2024	18:21

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VN084450.D Date Analyzed: 10/22/2024

Instrument ID: MSVOA_N Time Analyzed: 12:50

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	171974	8.22	293014	9.10	264421	11.87
UPPER LIMIT	343948	8.724	586028	9.6	528842	12.365
LOWER LIMIT	85987	7.724	146507	8.6	132211	11.365
EPA SAMPLE NO.						
WB-301-BOT	168250	8.22	297819	9.10	273036	11.87
VN1022WBL01	195991	8.22	325943	9.10	276681	11.87
VN1022WBS01	177710	8.22	304170	9.10	270028	11.87
VN1022WBSD01	162648	8.22	284290	9.10	251894	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.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: VN084450.D Date Analyzed: 10/22/2024

Instrument ID: MSVOA_N Time Analyzed: 12:50

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

	IS4 AREA #	RT #				
12 HOUR STD	131065	13.788				
UPPER LIMIT	262130	14.288				
LOWER LIMIT	65532.5	13.288				
EPA SAMPLE NO.						
WB-301-BOT	103880	13.79				
VN1022WBL01	106919	13.79				
VN1022WBS01	132421	13.79				
VN1022WBSD01	120786	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:	VN1022WBL01	SDG No.:	P4397
Lab Sample ID:	VN1022WBL01	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
VN084452.D	1		10/22/24 13:38	VN102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	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
67-66-3	Chloroform	0.26	U	0.26	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
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
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.7		70 (74) - 130 (125)	91%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	49.3		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		70 (77) - 130 (121)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	196000	8.224			
540-36-3	1,4-Difluorobenzene	326000	9.1			
3114-55-4	Chlorobenzene-d5	277000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	107000	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:	VN1022WBS01	SDG No.:	P4397
Lab Sample ID:	VN1022WBS01	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
VN084453.D	1		10/22/24 14:01	VN102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.5		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.2		0.26	1.00	ug/L
78-93-3	2-Butanone	87.6		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.8		0.25	1.00	ug/L
67-66-3	Chloroform	18.7		0.26	1.00	ug/L
71-43-2	Benzene	18.7		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.0		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	18.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.7		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.2		70 (74) - 130 (125)	92%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	8.224			
540-36-3	1,4-Difluorobenzene	304000	9.1			
3114-55-4	Chlorobenzene-d5	270000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.788			

U = Not Detected
LOQ = Limit of Quantitation
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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:	VN1022WBSD01	SDG No.:	P4397
Lab Sample ID:	VN1022WBSD01	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
VN084454.D	1		10/22/24 14:45	VN102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.5		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		0.26	1.00	ug/L
78-93-3	2-Butanone	92.3		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.6		0.25	1.00	ug/L
67-66-3	Chloroform	19.4		0.26	1.00	ug/L
71-43-2	Benzene	18.9		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.8		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.1		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	48.0		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	163000	8.224			
540-36-3	1,4-Difluorobenzene	284000	9.1			
3114-55-4	Chlorobenzene-d5	252000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.794			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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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

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.: P4397 SAS No.: P4397 SDG No.: P4397

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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_N Calibration Date/Time: 10/22/2024 12:50

Lab File ID: VN084450.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	0.602		-7.95	20
1,1-Dichloroethene	0.563	0.575		2.13	20
2-Butanone	0.434	0.422		-2.77	20
Carbon Tetrachloride	0.525	0.551		4.95	20
Chloroform	1.175	1.210		2.98	20
Benzene	1.492	1.558		4.42	20
1,2-Dichloroethane	0.506	0.521		2.96	20
Trichloroethene	0.348	0.369		6.03	20
Tetrachloroethene	0.348	0.359		3.16	20
Chlorobenzene	1.109	1.161	0.3	4.69	20
1,2-Dichloroethane-d4	0.741	0.701		-5.4	20
Dibromofluoromethane	0.330	0.335		1.51	20
Toluene-d8	1.213	1.224		0.91	20
4-Bromofluorobenzene	0.442	0.456		3.17	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\VN102224\
Data File : VN084462.D
Acq On : 22 Oct 2024 18:21
Operator : JC\MD
Sample : P4397-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 23 01:32:12 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

Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	168250	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	297819	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	273036	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	103880	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	123682	49.580	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.160%			
35) Dibromofluoromethane	8.165	113	98197	50.014	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.020%			
50) Toluene-d8	10.565	98	376295	52.092	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.180%			
62) 4-Bromofluorobenzene	12.847	95	127222	48.344	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.680%			
Target Compounds						Qvalue
16) Acetone	4.430	43	26114	24.368	ug/l	95
20) Methylene Chloride	5.265	84	3526m	1.619	ug/l	
43) Isopropyl Acetate	8.688	43	141080	24.618	ug/l #	88
95) Naphthalene	15.647	128	10247	1.784	ug/l	98

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

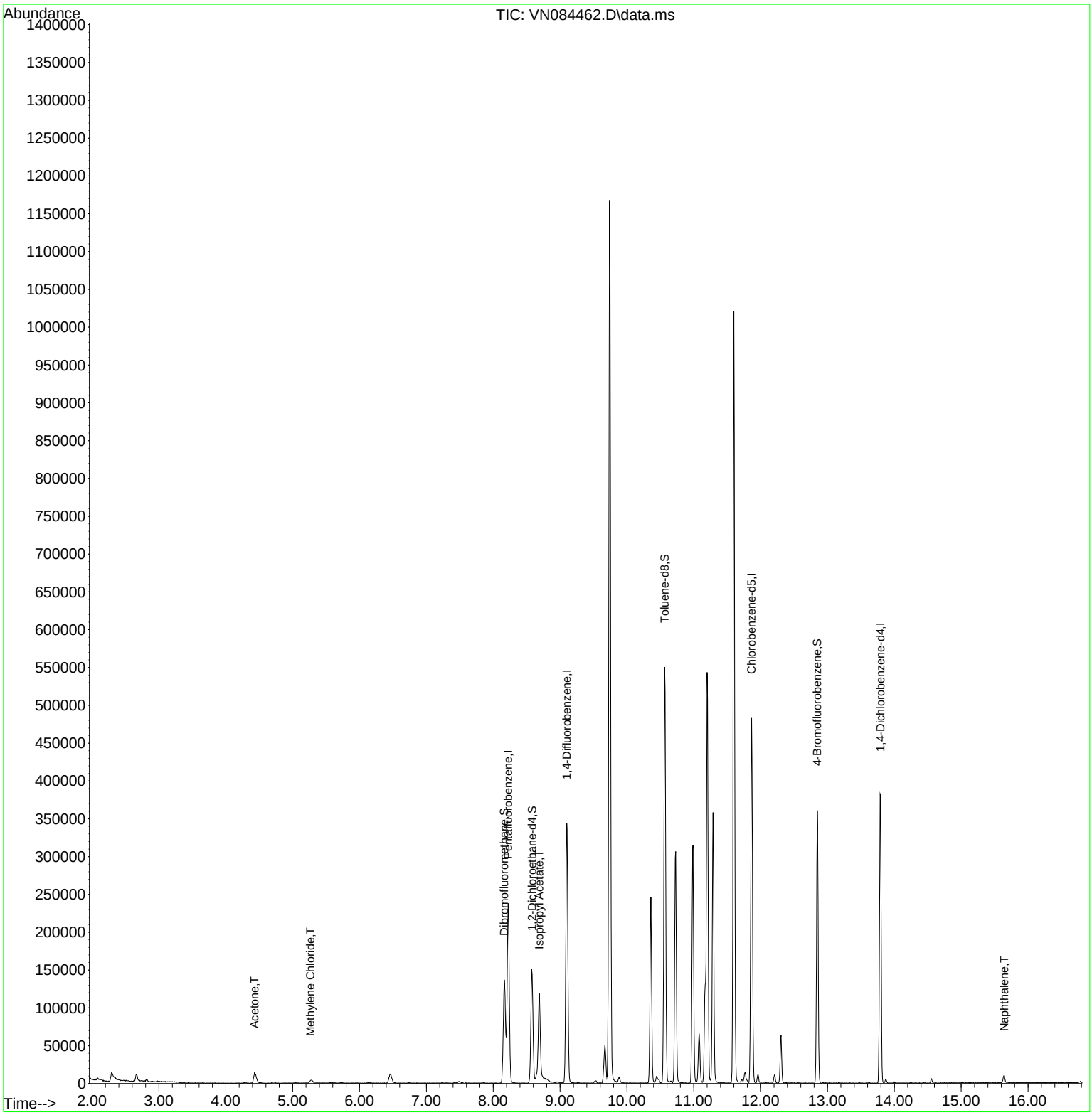
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084462.D
Acq On : 22 Oct 2024 18:21
Operator : JC\MD
Sample : P4397-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

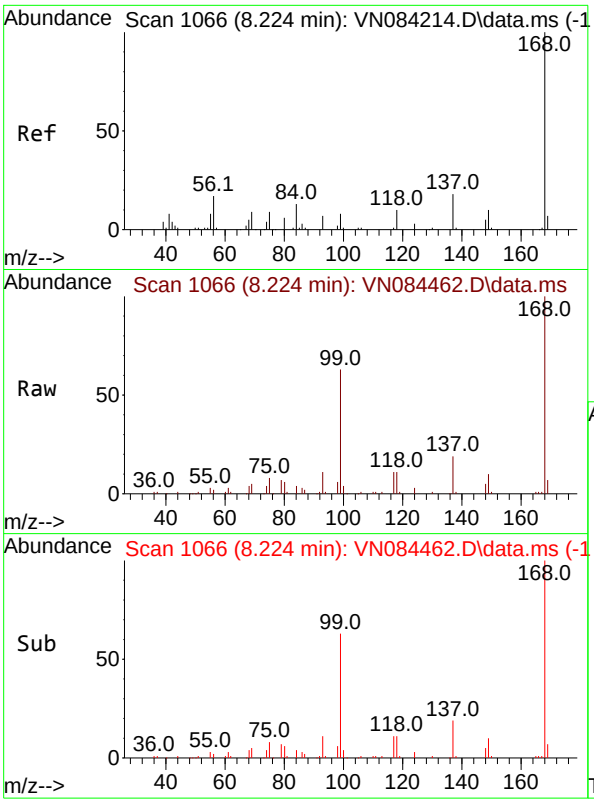
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

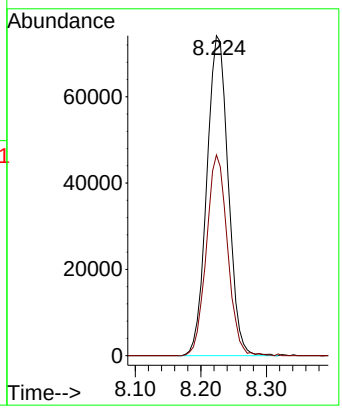




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion:168 Resp: 16825

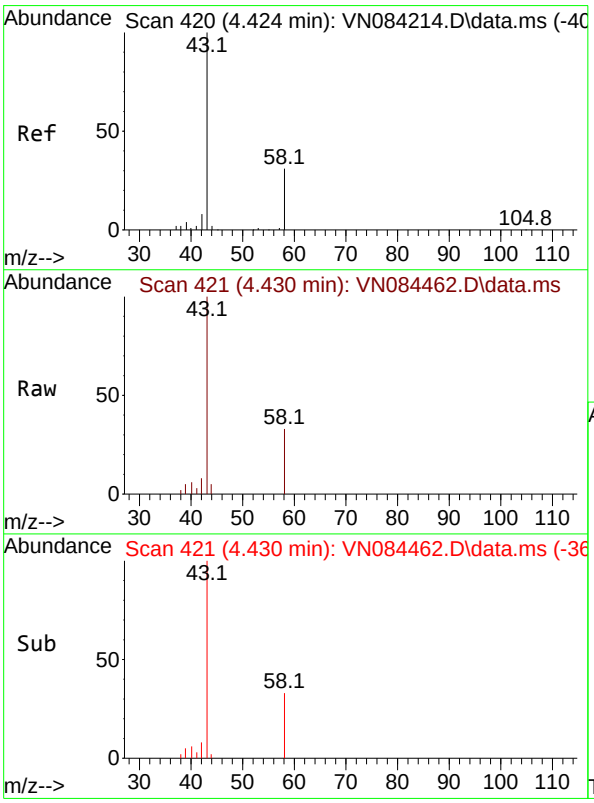
Ion	Ratio	Lower	Upper
168	100		
99	62.8	54.2	81.2



Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

Manual Integrations
APPROVED

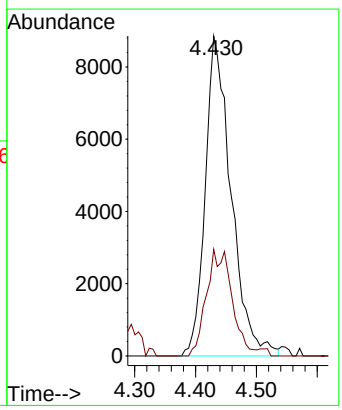
Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

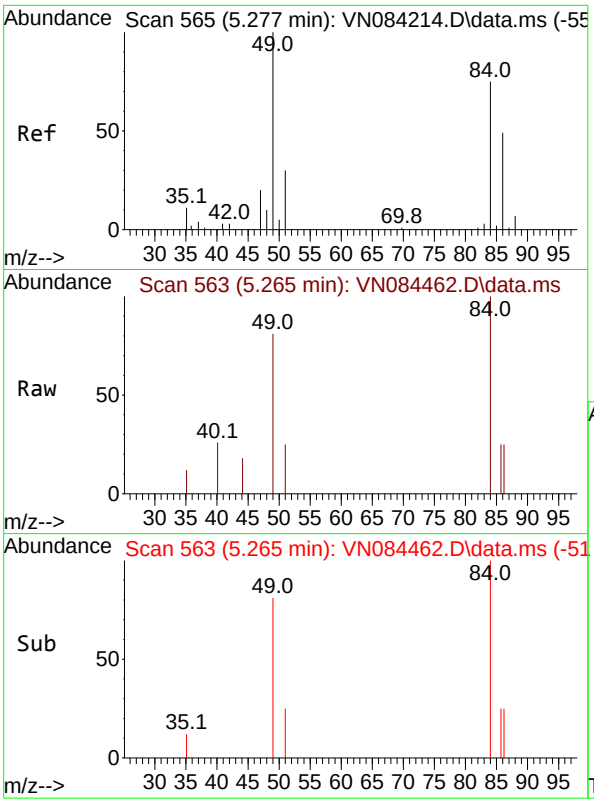


#16
Acetone
Concen: 24.368 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 43 Resp: 26114

Ion	Ratio	Lower	Upper
43	100		
58	33.3	24.4	36.6

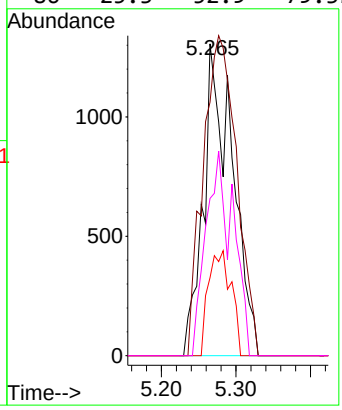




#20
Methylene Chloride
Concen: 1.619 ug/l m
RT: 5.265 min Scan# 5
Delta R.T. -0.012 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 84 Resp: 352

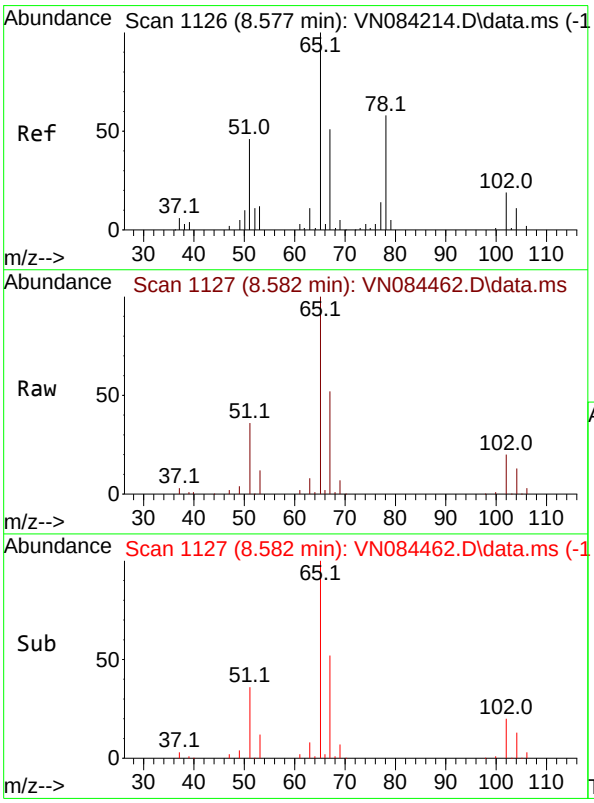
Ion	Ratio	Lower	Upper
84	100		
49	81.3	107.2	160.8#
51	25.0	31.8	47.8#
86	25.3	52.9	79.3#



Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

Manual Integrations
APPROVED

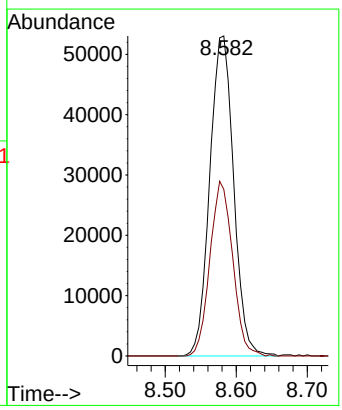
Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

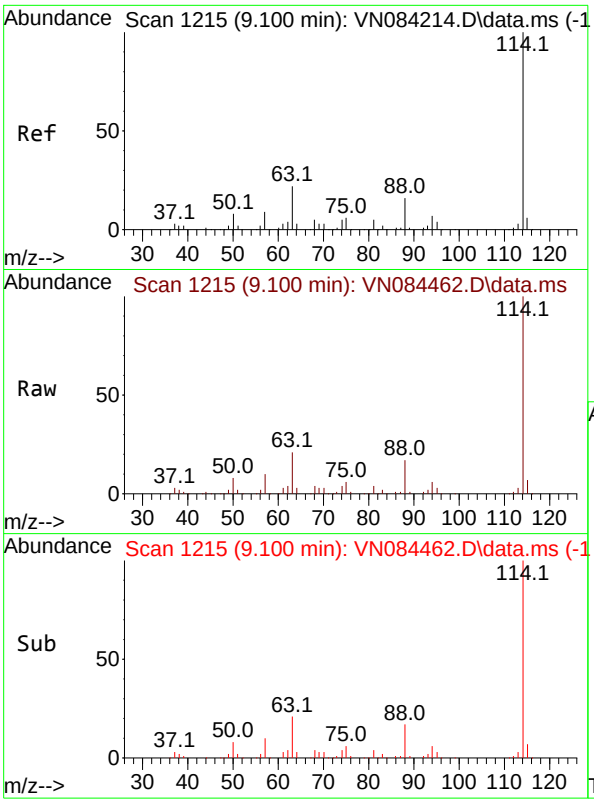


#33
1,2-Dichloroethane-d4
Concen: 49.580 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 65 Resp: 123682

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	102.0

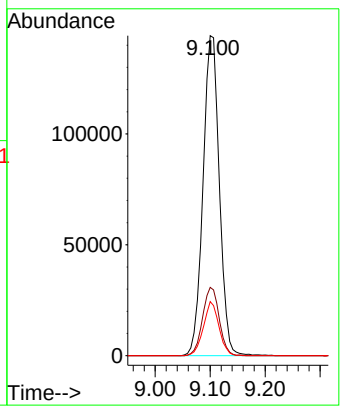




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion:114 Resp: 29781

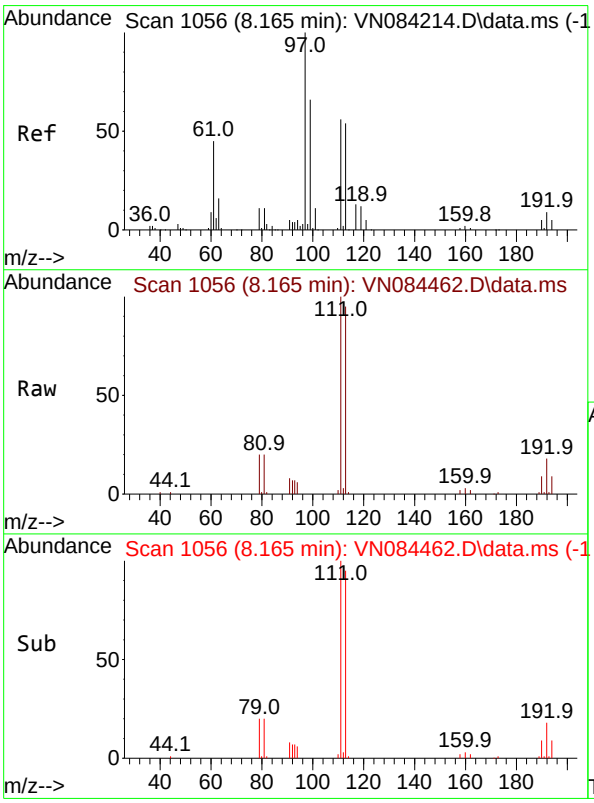
Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.8
88	16.9	0.0	31.6



Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

Manual Integrations
APPROVED

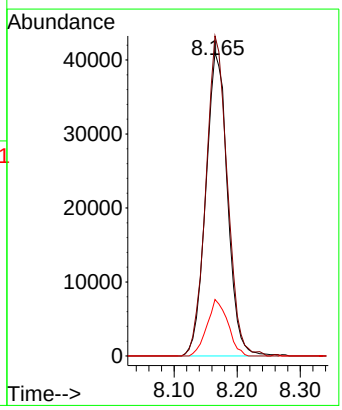
Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

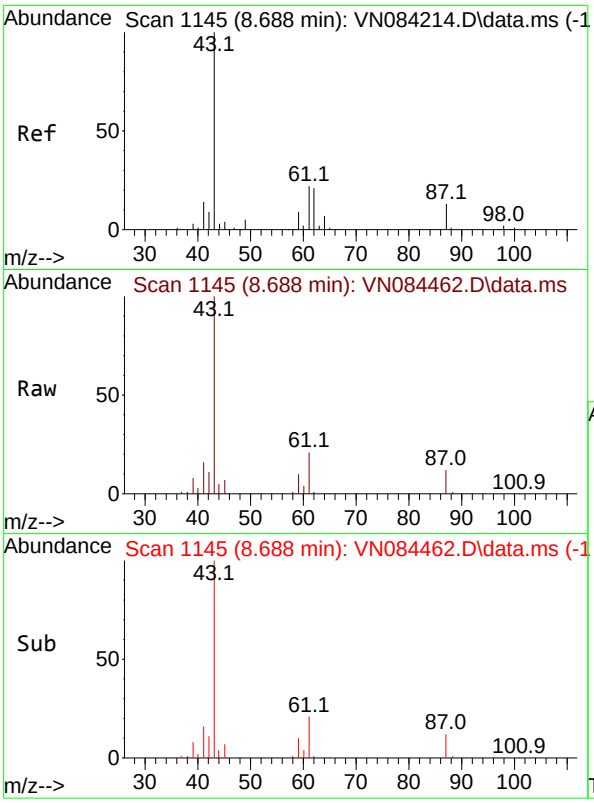


#35
Dibromofluoromethane
Concen: 50.014 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion:113 Resp: 98197

Ion	Ratio	Lower	Upper
113	100		
111	104.3	83.3	124.9
192	17.8	13.5	20.3

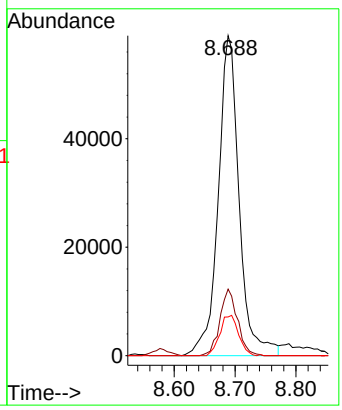




#43
Isopropyl Acetate
Concen: 24.618 ug/l
RT: 8.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 43 Resp: 14108

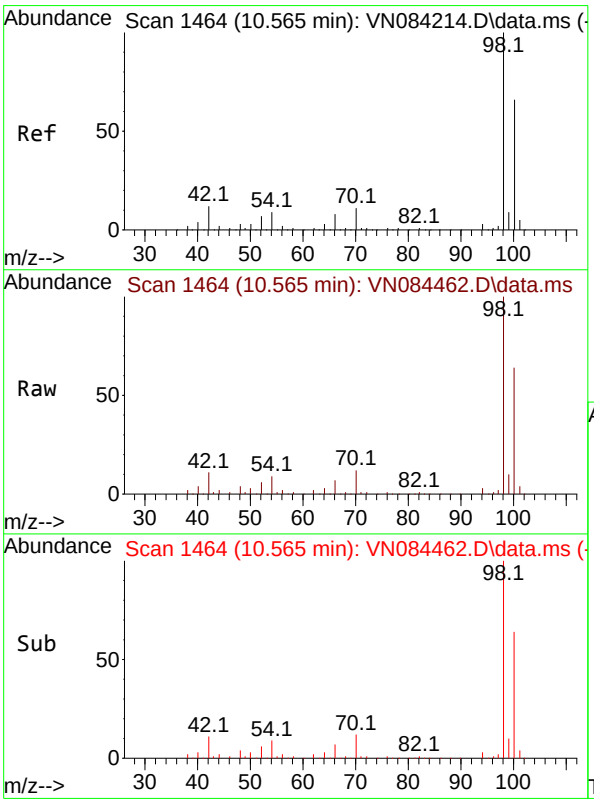
Ion	Ratio	Lower	Upper
43	100		
61	17.5	20.4	30.6
87	11.3	10.3	15.5



Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

Manual Integrations
APPROVED

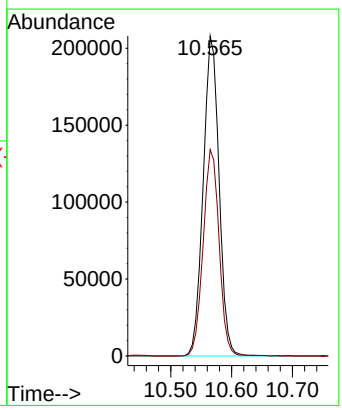
Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

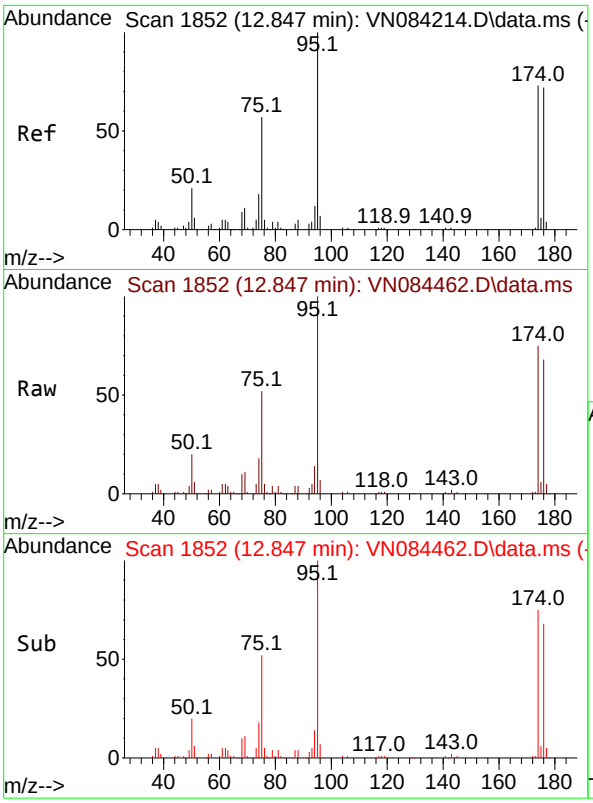


#50
Toluene-d8
Concen: 52.092 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 98 Resp: 376295

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.7	79.1

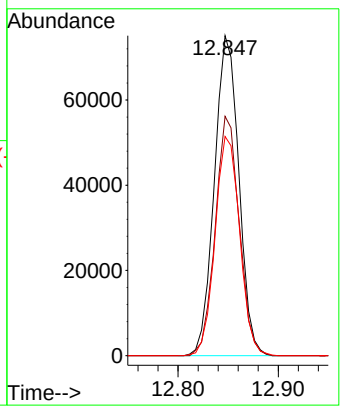




#62
4-Bromofluorobenzene
Concen: 48.344 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion: 95 Resp: 12722

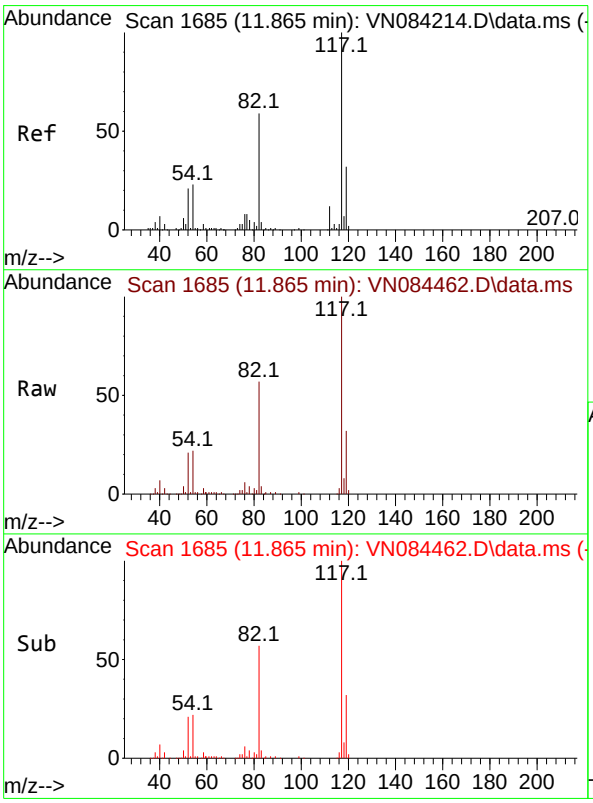
Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	145.2
176	69.0	0.0	140.0



Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

Manual Integrations
APPROVED

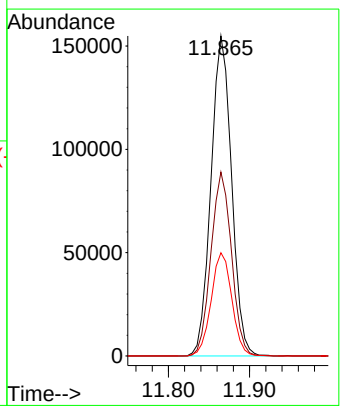
Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

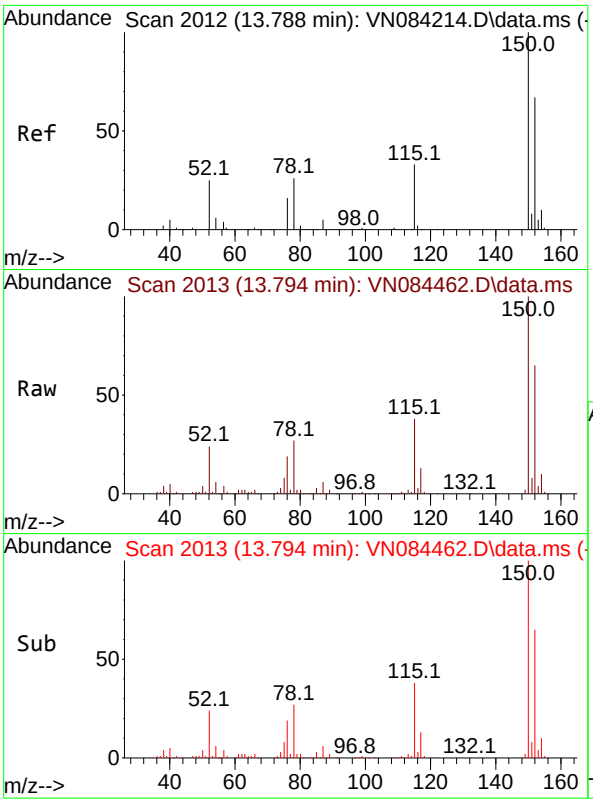


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion:117 Resp: 273036

Ion	Ratio	Lower	Upper
117	100		
82	57.4	47.2	70.8
119	32.3	25.4	38.0

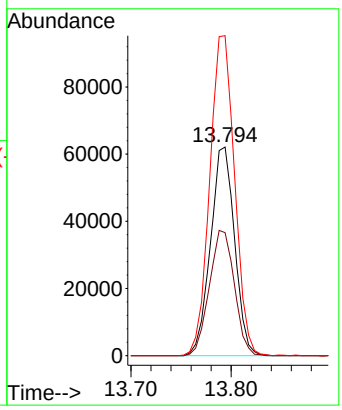




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion:152 Resp: 10388

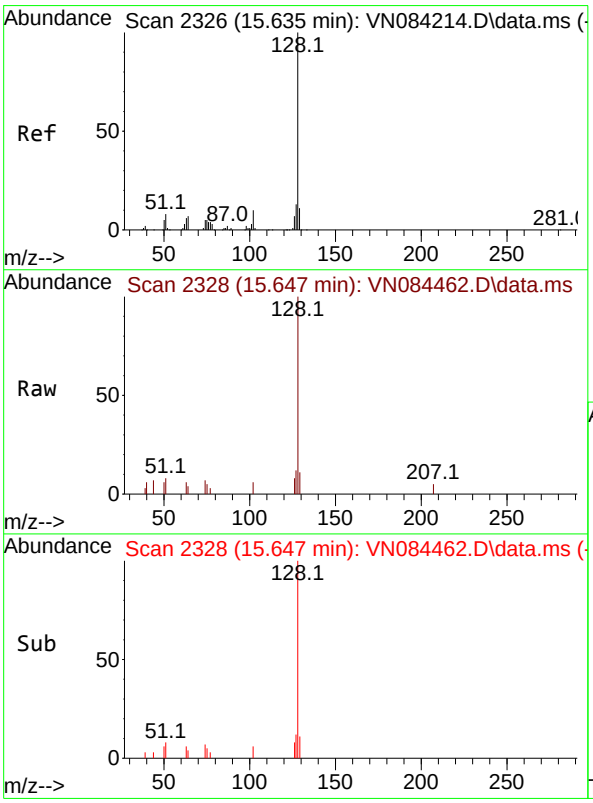
Ion	Ratio	Lower	Upper
152	100		
115	62.2	31.3	93.9
150	157.9	0.0	349.8



Instrument :
MSVOA_N
ClientSampleId :
WB-301-BOT

Manual Integrations
APPROVED

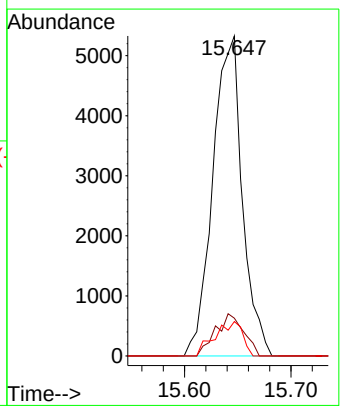
Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024



#95
Naphthalene
Concen: 1.784 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.012 min
Lab File: VN084462.D
Acq: 22 Oct 2024 18:21

Tgt Ion:128 Resp: 10247

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	10.1	8.7	13.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084452.D
Acq On : 22 Oct 2024 13:38
Operator : JC\MD
Sample : VN1022WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Quant Time: Oct 23 01:26:49 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	195991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	325943	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	276681	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	106919	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132772	45.690	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.380%		
35) Dibromofluoromethane	8.165	113	107332	49.949	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.900%		
50) Toluene-d8	10.565	98	389764	49.301	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.600%		
62) 4-Bromofluorobenzene	12.847	95	129594	44.996	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	90.000%		

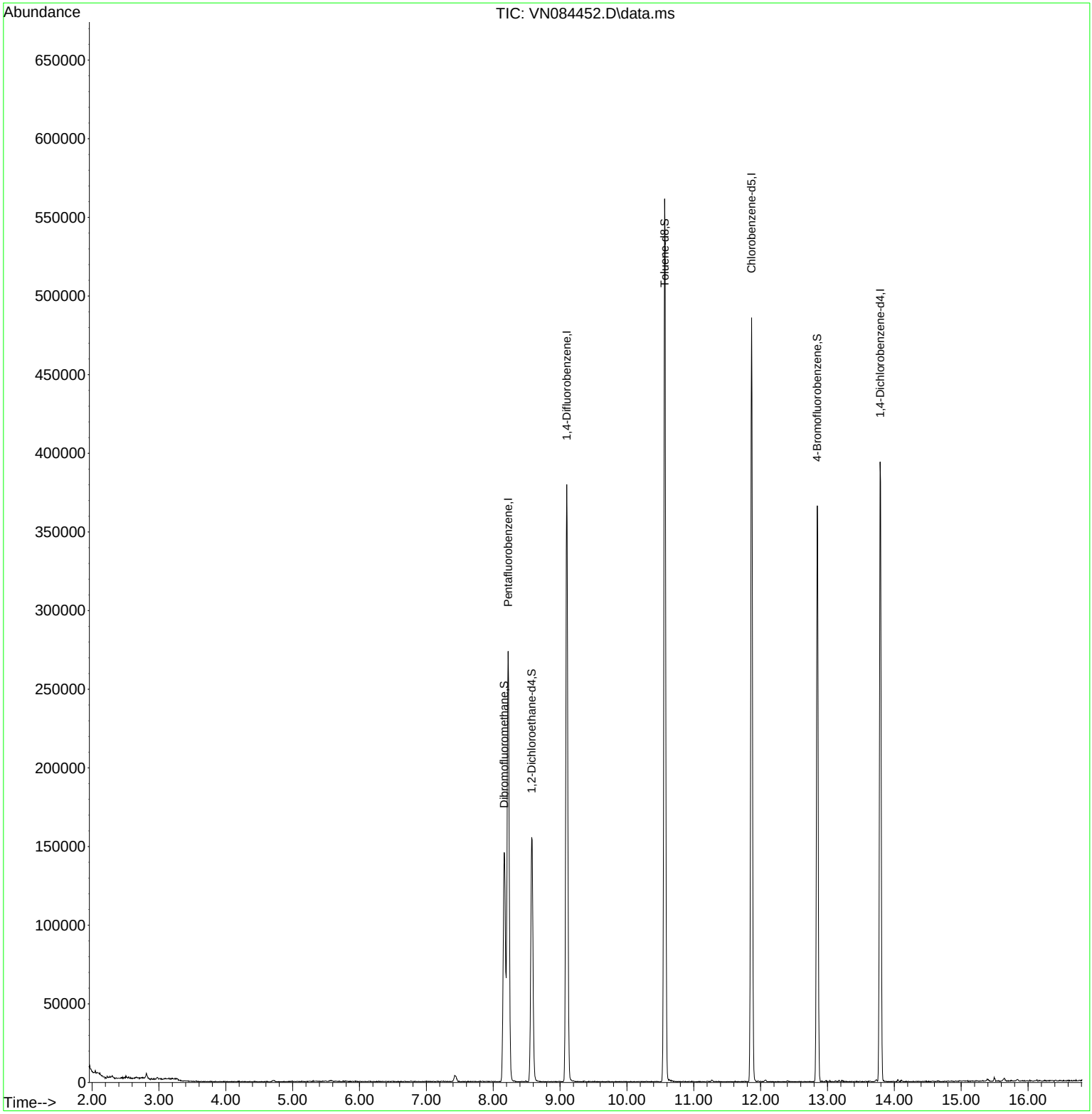
Target Compounds Qvalue

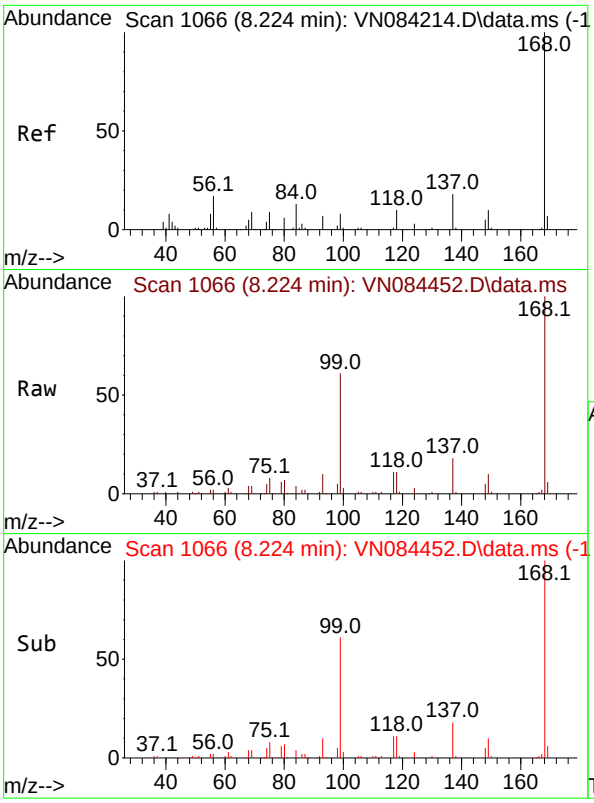
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084452.D
Acq On : 22 Oct 2024 13:38
Operator : JC\MD
Sample : VN1022WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Quant Time: Oct 23 01:26:49 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



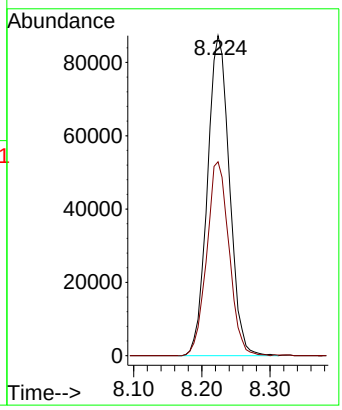


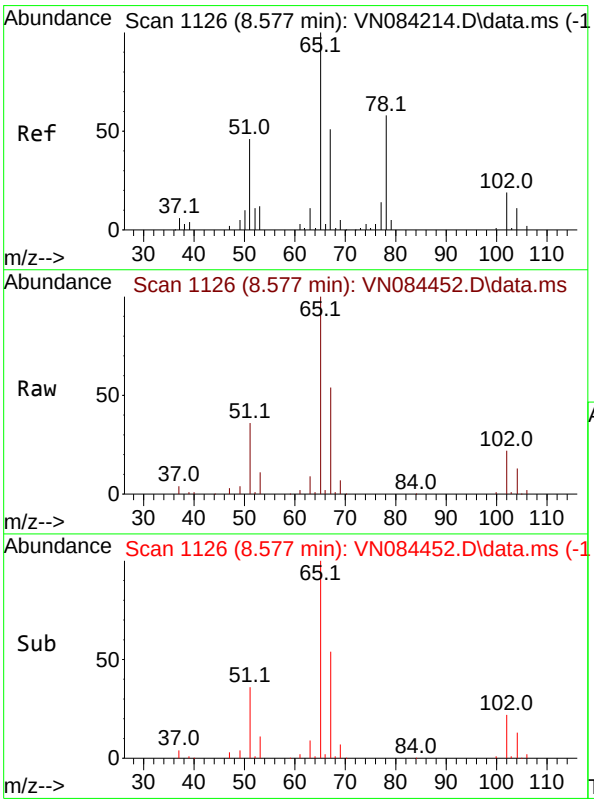
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Tgt Ion:168 Resp: 195991

Ion	Ratio	Lower	Upper
168	100		
99	60.6	54.2	81.2

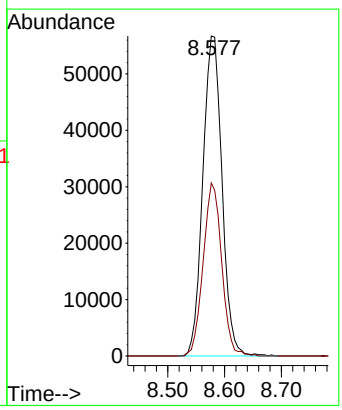


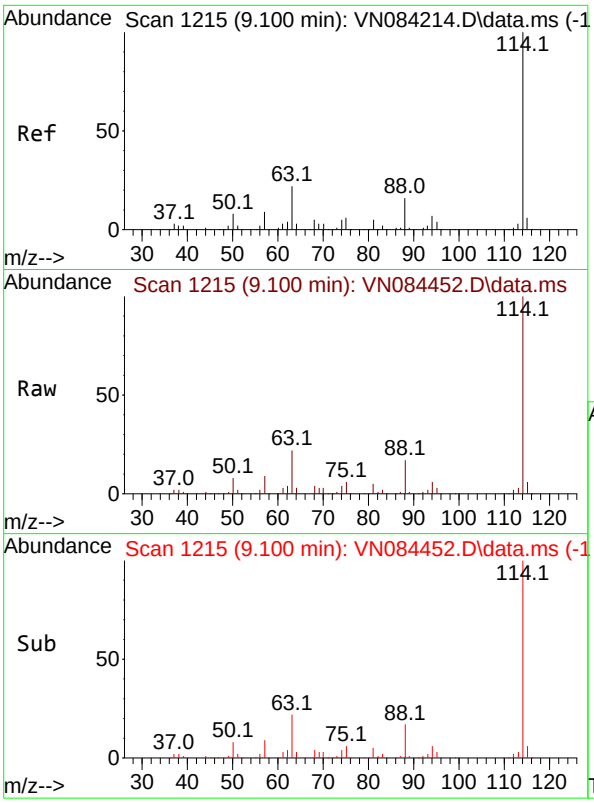


#33
1,2-Dichloroethane-d4
Concen: 45.690 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Tgt Ion: 65 Resp: 132772

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	102.0



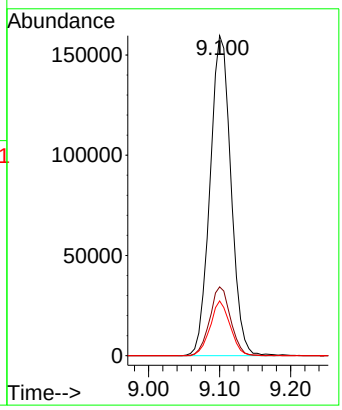


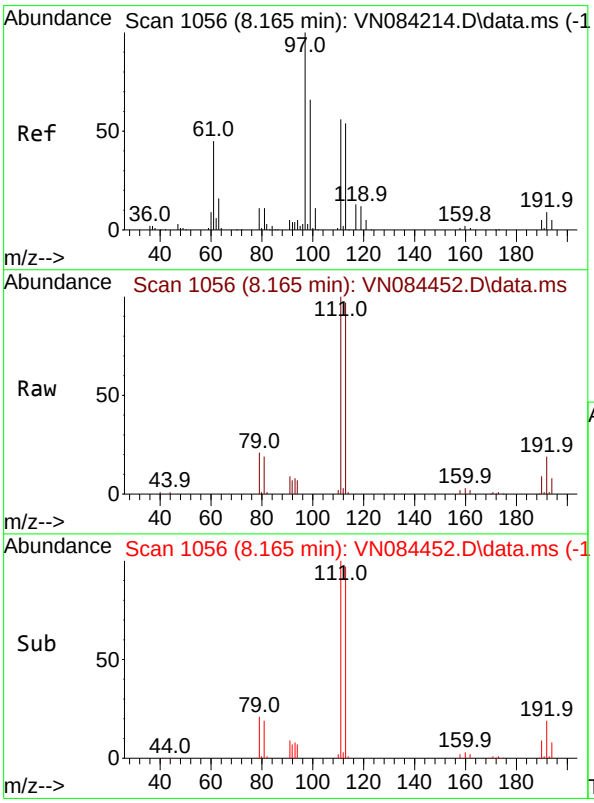
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Tgt Ion:114 Resp: 325943

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	43.8
88	17.1	0.0	31.6

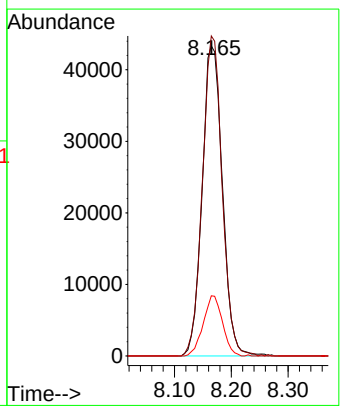


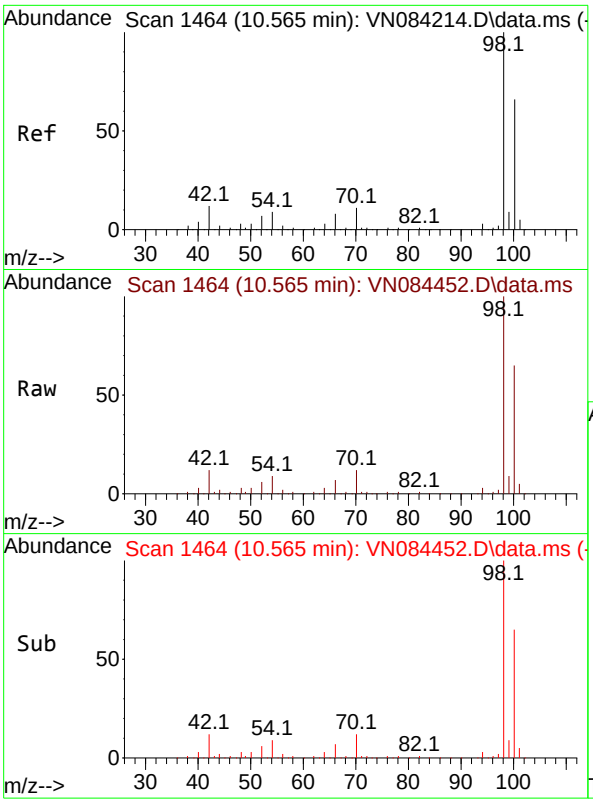


#35
Dibromofluoromethane
Concen: 49.949 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Tgt Ion:113 Resp: 107332

Ion	Ratio	Lower	Upper
113	100		
111	100.4	83.3	124.9
192	18.4	13.5	20.3



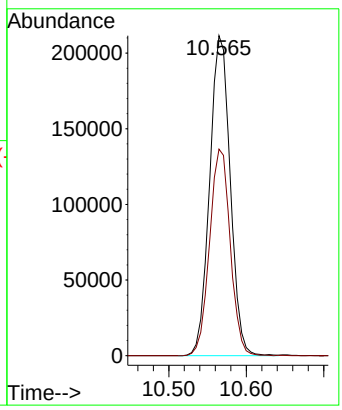


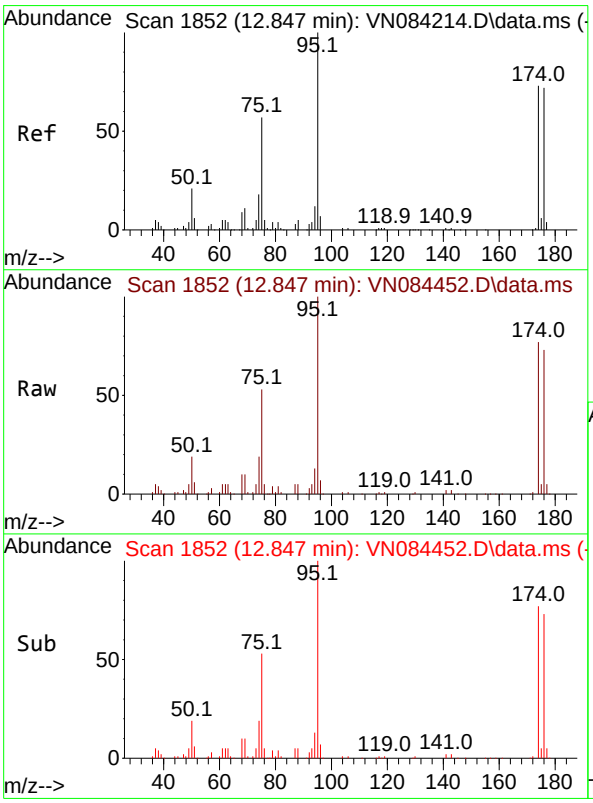
#50
Toluene-d8
Concen: 49.301 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Tgt Ion: 98 Resp: 389764

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.7	79.1

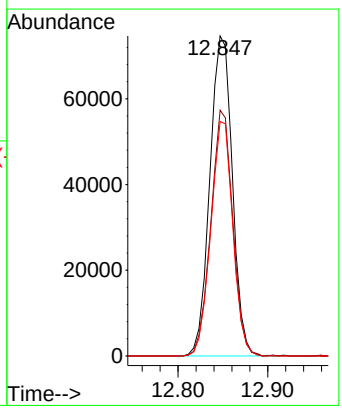


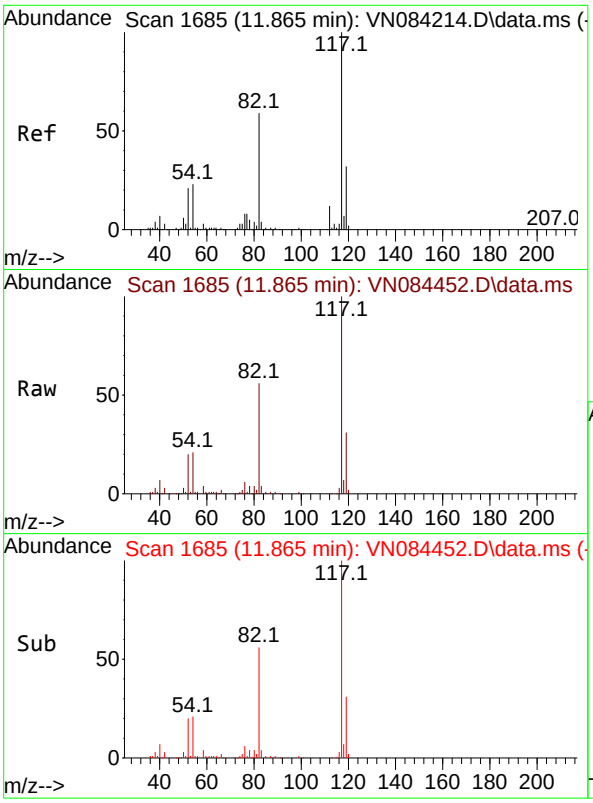


#62
4-Bromofluorobenzene
Concen: 44.996 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Tgt Ion: 95 Resp: 129594

Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	145.2
176	71.8	0.0	140.0



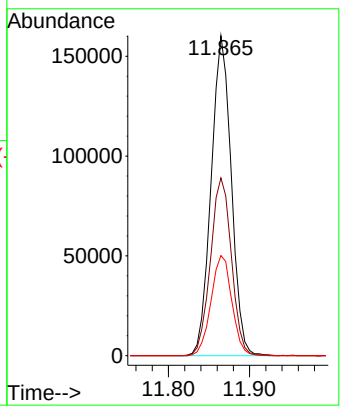


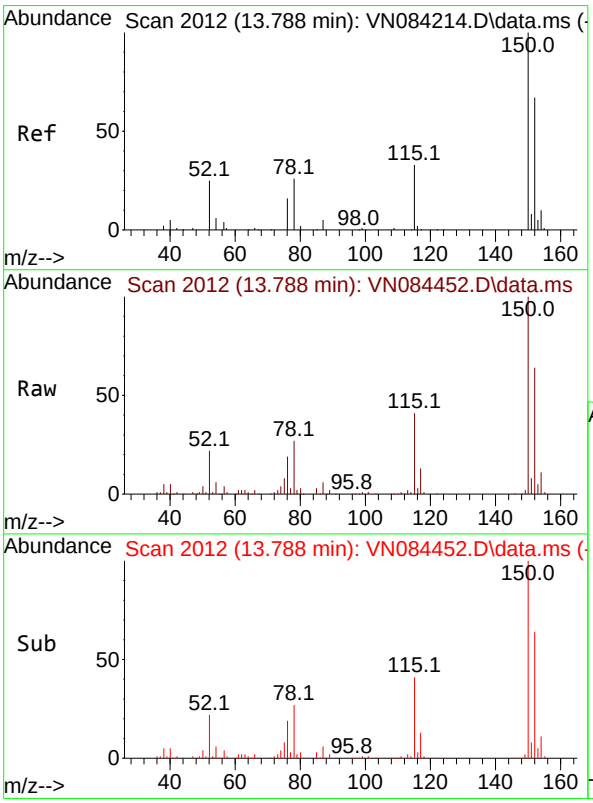
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Tgt Ion:117 Resp: 276681

Ion	Ratio	Lower	Upper
117	100		
82	55.5	47.2	70.8
119	31.3	25.4	38.0

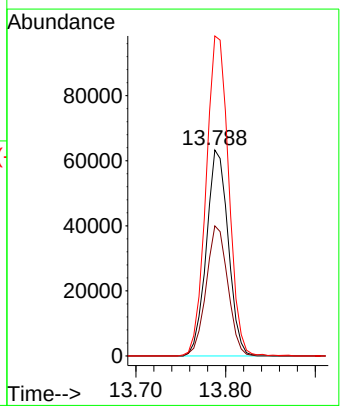




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Tgt Ion:152 Resp: 106919

Ion	Ratio	Lower	Upper
152	100		
115	62.5	31.3	93.9
150	160.2	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084453.D
Acq On : 22 Oct 2024 14:01
Operator : JC\MD
Sample : VN1022WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 01:27:16 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 :
VN1022WBS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	177710	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304170	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	270028	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132421	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	121628	46.161	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.320%		
35) Dibromofluoromethane	8.165	113	99350	49.544	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.080%		
50) Toluene-d8	10.565	98	359697	48.755	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.520%		
62) 4-Bromofluorobenzene	12.847	95	131806	49.040	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	98.080%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	30405	14.464	ug/l	88
3) Chloromethane	2.365	50	38245	15.934	ug/l	92
4) Vinyl Chloride	2.512	62	38348	16.494	ug/l	99
5) Bromomethane	2.953	94	26015	16.964	ug/l	96
6) Chloroethane	3.118	64	24567	14.755	ug/l	93
7) Trichlorofluoromethane	3.494	101	62625	17.298	ug/l	100
8) Diethyl Ether	3.959	74	23561	17.547	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.365	101	36860	17.769	ug/l	98
10) Methyl Iodide	4.589	142	46339	17.346	ug/l	99
11) Tert butyl alcohol	5.524	59	34138	78.574	ug/l	100
12) 1,1-Dichloroethene	4.347	96	36354	18.169	ug/l	90
13) Acrolein	4.177	56	28493	57.125	ug/l	99
14) Allyl chloride	5.024	41	57894	16.660	ug/l	96
15) Acrylonitrile	5.724	53	99053	90.281	ug/l	99
16) Acetone	4.430	43	92502	81.724	ug/l	100
17) Carbon Disulfide	4.712	76	103059	16.268	ug/l	100
18) Methyl Acetate	5.024	43	43324	17.561	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	119560	17.704	ug/l	98
20) Methylene Chloride	5.277	84	41973	18.242	ug/l	94
21) trans-1,2-Dichloroethene	5.788	96	37752	18.009	ug/l	97
22) Diisopropyl ether	6.671	45	129644	18.037	ug/l	96
23) Vinyl Acetate	6.606	43	460216	86.325	ug/l	100
24) 1,1-Dichloroethane	6.565	63	74312	18.487	ug/l	99
25) 2-Butanone	7.482	43	134974	87.552	ug/l	99
26) 2,2-Dichloropropane	7.488	77	64580	17.819	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	46201	18.239	ug/l	97
28) Bromochloromethane	7.818	49	33275	18.553	ug/l	95
29) Tetrahydrofuran	7.841	42	84149	88.450	ug/l	99
30) Chloroform	7.971	83	78076	18.699	ug/l	96
31) Cyclohexane	8.253	56	66769	17.108	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	68084	18.156	ug/l	96
36) 1,1-Dichloropropene	8.371	75	53919	18.511	ug/l	99
37) Ethyl Acetate	7.559	43	53127	17.779	ug/l	99
38) Carbon Tetrachloride	8.365	117	60111	18.813	ug/l	99
39) Methylcyclohexane	9.600	83	56729	17.499	ug/l	98
40) Benzene	8.606	78	169698	18.699	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084453.D
Acq On : 22 Oct 2024 14:01
Operator : JC\MD
Sample : VN1022WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 01:27:16 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 :
VN1022WBS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	28308	17.450	ug/l		98
42) 1,2-Dichloroethane	8.671	62	56388	18.328	ug/l		99
43) Isopropyl Acetate	8.688	43	87191	14.897	ug/l		98
44) Trichloroethene	9.353	130	40177	18.955	ug/l		98
45) 1,2-Dichloropropane	9.623	63	40840	19.023	ug/l		96
46) Dibromomethane	9.706	93	28768	19.857	ug/l		98
47) Bromodichloromethane	9.882	83	61279	19.038	ug/l		91
48) Methyl methacrylate	9.676	41	41050	17.619	ug/l		98
49) 1,4-Dioxane	9.694	88	14851	346.222	ug/l	#	90
51) 4-Methyl-2-Pentanone	10.447	43	262197	92.172	ug/l		99
52) Toluene	10.629	92	106505	19.246	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	61026	18.600	ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	64908	18.392	ug/l		99
55) 1,1,2-Trichloroethane	11.018	97	40314	20.321	ug/l		92
56) Ethyl methacrylate	10.870	69	59750	18.303	ug/l		95
57) 1,3-Dichloropropane	11.165	76	65745	18.546	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	124774	82.396	ug/l		98
59) 2-Hexanone	11.194	43	194266	91.370	ug/l		100
60) Dibromochloromethane	11.359	129	45869	19.568	ug/l		100
61) 1,2-Dibromoethane	11.470	107	39273	19.051	ug/l		100
64) Tetrachloroethene	11.106	164	34680	18.439	ug/l		96
65) Chlorobenzene	11.894	112	111661	18.650	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	38900	18.863	ug/l		99
67) Ethyl Benzene	11.964	91	192042	18.137	ug/l		99
68) m/p-Xylenes	12.070	106	148188	37.836	ug/l		99
69) o-Xylene	12.400	106	70695	19.078	ug/l		98
70) Styrene	12.412	104	120254	19.159	ug/l		98
71) Bromoform	12.576	173	29221	19.246	ug/l	#	96
73) Isopropylbenzene	12.694	105	182230	18.034	ug/l		98
74) N-amyl acetate	12.494	43	76299	16.674	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	55947	18.413	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	52772m	19.521	ug/l		
77) Bromobenzene	12.976	156	44866	18.407	ug/l		95
78) n-propylbenzene	13.035	91	213398	18.227	ug/l		99
79) 2-Chlorotoluene	13.123	91	134753	18.038	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	154916	18.794	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	21723	19.264	ug/l		87
82) 4-Chlorotoluene	13.217	91	137196	18.243	ug/l		99
83) tert-Butylbenzene	13.435	119	127869	17.454	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	153680	18.508	ug/l		97
85) sec-Butylbenzene	13.617	105	176234	18.027	ug/l		100
86) p-Isopropyltoluene	13.729	119	146590	18.133	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	83239	18.204	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	81325	17.612	ug/l		99
89) n-Butylbenzene	14.053	91	122182	16.668	ug/l		99
90) Hexachloroethane	14.329	117	28246	17.213	ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	79655	17.766	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10211	16.285	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	36971	16.741	ug/l		99
94) Hexachlorobutadiene	15.500	225	18220	16.544	ug/l		96
95) Naphthalene	15.641	128	109289	14.927	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	36215	16.382	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084453.D
Acq On : 22 Oct 2024 14:01
Operator : JC\MD
Sample : VN1022WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 01:27:16 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 :
VN1022WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

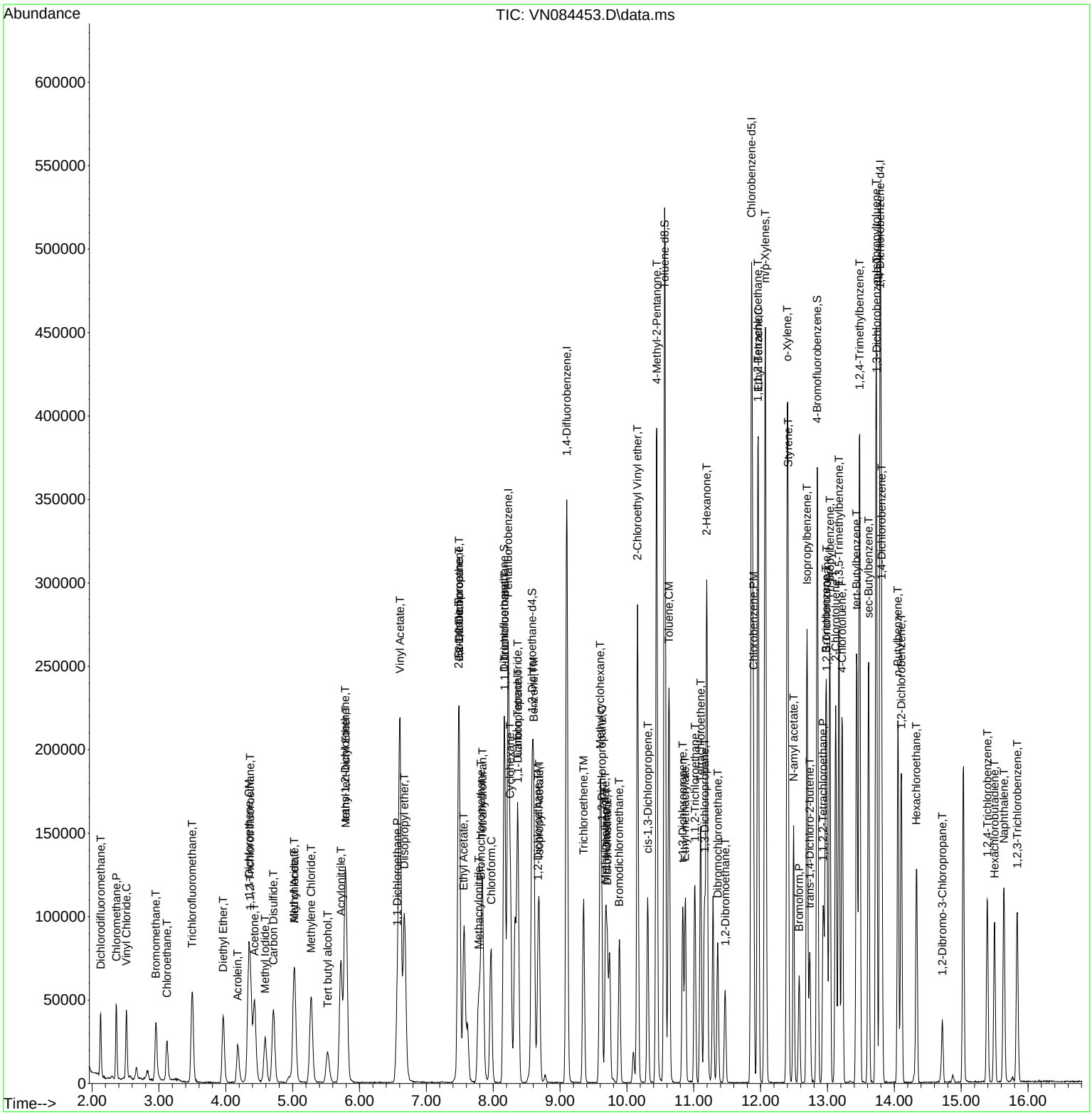
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084453.D
Acq On : 22 Oct 2024 14:01
Operator : JC\MD
Sample : VN1022WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 01:27:16 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 :
VN1022WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084454.D
Acq On : 22 Oct 2024 14:45
Operator : JC\MD
Sample : VN1022WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 23 01:28:20 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 :
VN1022WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	162648	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	284290	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	251894	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	120786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118385	49.091	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.180%		
35) Dibromofluoromethane	8.165	113	92800	49.514	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.020%		
50) Toluene-d8	10.565	98	331212	48.033	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.060%		
62) 4-Bromofluorobenzene	12.847	95	122807	48.887	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.780%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	28241	14.679	ug/l	88
3) Chloromethane	2.359	50	35405	16.117	ug/l	99
4) Vinyl Chloride	2.512	62	35054	16.474	ug/l	95
5) Bromomethane	2.959	94	25307	18.031	ug/l	95
6) Chloroethane	3.124	64	23899	15.683	ug/l	98
7) Trichlorofluoromethane	3.494	101	59328	17.905	ug/l	91
8) Diethyl Ether	3.959	74	22634	18.418	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	34776	18.317	ug/l	99
10) Methyl Iodide	4.589	142	44688	18.277	ug/l	99
11) Tert butyl alcohol	5.518	59	34892	87.746	ug/l	100
12) 1,1-Dichloroethene	4.341	96	32769	17.894	ug/l	93
13) Acrolein	4.177	56	29404	64.411	ug/l	98
14) Allyl chloride	5.024	41	53581	16.847	ug/l	98
15) Acrylonitrile	5.718	53	97676	97.270	ug/l	99
16) Acetone	4.430	43	87135	84.111	ug/l	96
17) Carbon Disulfide	4.718	76	96268	16.603	ug/l	97
18) Methyl Acetate	5.030	43	44581	19.744	ug/l	99
19) Methyl tert-butyl Ether	5.800	73	121253	19.617	ug/l	98
20) Methylene Chloride	5.277	84	41617	19.762	ug/l	95
21) trans-1,2-Dichloroethene	5.788	96	36611	19.082	ug/l	99
22) Diisopropyl ether	6.671	45	127788	19.425	ug/l	95
23) Vinyl Acetate	6.600	43	471205	96.571	ug/l	99
24) 1,1-Dichloroethane	6.571	63	72140	19.609	ug/l	98
25) 2-Butanone	7.482	43	130207	92.281	ug/l	100
26) 2,2-Dichloropropane	7.488	77	58286	17.571	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	44657	19.262	ug/l	96
28) Bromochloromethane	7.812	49	32800	19.982	ug/l	98
29) Tetrahydrofuran	7.841	42	84216	96.717	ug/l	98
30) Chloroform	7.965	83	74218	19.421	ug/l	94
31) Cyclohexane	8.259	56	59952	16.784	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	64815	18.885	ug/l	94
36) 1,1-Dichloropropene	8.371	75	50527	18.560	ug/l	98
37) Ethyl Acetate	7.559	43	53479	19.148	ug/l	97
38) Carbon Tetrachloride	8.359	117	55533	18.596	ug/l	92
39) Methylcyclohexane	9.600	83	52431	17.305	ug/l	95
40) Benzene	8.606	78	160063	18.871	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084454.D
Acq On : 22 Oct 2024 14:45
Operator : JC\MD
Sample : VN1022WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 23 01:28:20 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 :
VN1022WBSD01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	29208	19.263	ug/l		96
42) 1,2-Dichloroethane	8.671	62	56362	19.601	ug/l		99
43) Isopropyl Acetate	8.688	43	87329	15.964	ug/l		97
44) Trichloroethene	9.353	130	37196	18.776	ug/l		95
45) 1,2-Dichloropropane	9.618	63	40032	19.951	ug/l		100
46) Dibromomethane	9.706	93	28247	20.861	ug/l		98
47) Bromodichloromethane	9.888	83	59421	19.752	ug/l		96
48) Methyl methacrylate	9.676	41	39452	18.117	ug/l		98
49) 1,4-Dioxane	9.694	88	15410	384.377	ug/l		97
51) 4-Methyl-2-Pentanone	10.447	43	265413	99.827	ug/l		99
52) Toluene	10.629	92	98137	18.974	ug/l		98
53) t-1,3-Dichloropropene	10.835	75	58118	18.952	ug/l		96
54) cis-1,3-Dichloropropene	10.312	75	62876	19.062	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	38703	20.873	ug/l		96
56) Ethyl methacrylate	10.876	69	58523	19.181	ug/l		99
57) 1,3-Dichloropropane	11.159	76	67142	20.265	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	124778	88.160	ug/l		99
59) 2-Hexanone	11.194	43	191652	96.444	ug/l		99
60) Dibromochloromethane	11.359	129	45689	20.855	ug/l		98
61) 1,2-Dibromoethane	11.470	107	39095	20.291	ug/l		98
64) Tetrachloroethene	11.106	164	33764	19.244	ug/l		97
65) Chlorobenzene	11.888	112	109394	19.587	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.965	131	36735	19.096	ug/l		98
67) Ethyl Benzene	11.965	91	180220	18.246	ug/l		99
68) m/p-Xylenes	12.070	106	141783	38.806	ug/l		97
69) o-Xylene	12.400	106	65662	18.995	ug/l		96
70) Styrene	12.412	104	113796	19.435	ug/l		98
71) Bromoform	12.582	173	28447	20.085	ug/l	#	95
73) Isopropylbenzene	12.694	105	167871	18.213	ug/l		99
74) N-amyl acetate	12.494	43	74246	17.789	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	55170	19.906	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	51860m	21.031	ug/l		
77) Bromobenzene	12.982	156	42558	19.142	ug/l		96
78) n-propylbenzene	13.035	91	202008	18.916	ug/l		100
79) 2-Chlorotoluene	13.123	91	126589	18.577	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	144609	19.234	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.741	75	18211	17.706	ug/l		96
82) 4-Chlorotoluene	13.223	91	130226	18.984	ug/l		99
83) tert-Butylbenzene	13.435	119	120683	18.060	ug/l		97
84) 1,2,4-Trimethylbenzene	13.482	105	146120	19.292	ug/l		99
85) sec-Butylbenzene	13.617	105	166811	18.707	ug/l		100
86) p-Isopropyltoluene	13.729	119	139521	18.921	ug/l		98
87) 1,3-Dichlorobenzene	13.735	146	78103	18.726	ug/l		100
88) 1,4-Dichlorobenzene	13.811	146	79624	18.904	ug/l		100
89) n-Butylbenzene	14.053	91	118654	17.746	ug/l		99
90) Hexachloroethane	14.335	117	26884	17.962	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	75541	18.471	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10570	18.481	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	36540	18.139	ug/l		99
94) Hexachlorobutadiene	15.500	225	17391	17.312	ug/l		97
95) Naphthalene	15.641	128	109616	16.414	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	35947	17.827	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084454.D
Acq On : 22 Oct 2024 14:45
Operator : JC\MD
Sample : VN1022WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 23 01:28:20 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 :
VN1022WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

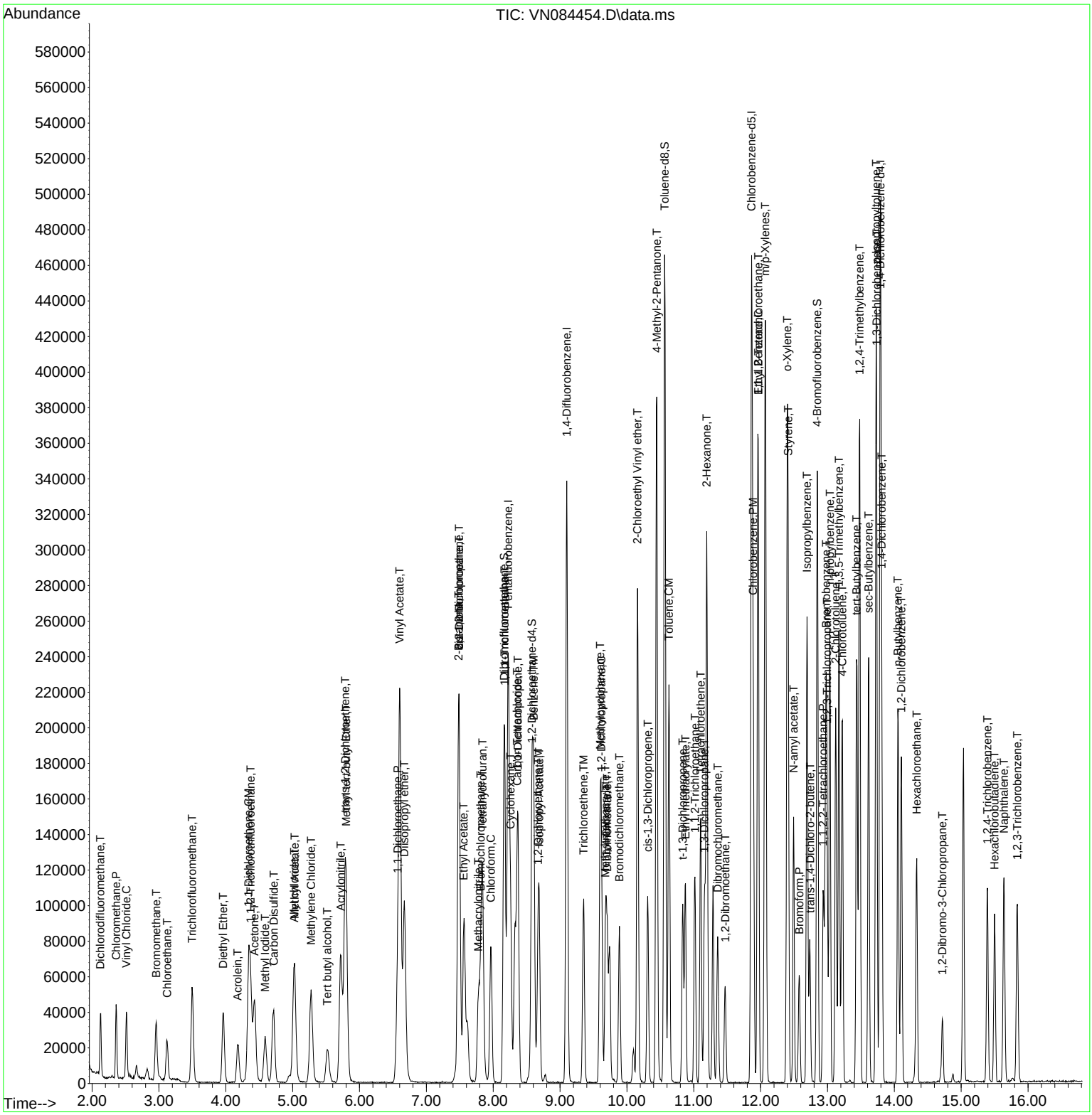
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084454.D
Acq On : 22 Oct 2024 14:45
Operator : JC\MD
Sample : VN1022WBSD01
Misc : 5.0mL/MSVOA_N/WATER
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Quant Time: Oct 23 01:28:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024



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

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
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

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

Manual Integration Report

Sequence:	VN102224	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084450.D	1,2,3-Trichloropropane	SAM	10/23/2024 9:49:28 AM	MMDadoda	10/23/2024 1:06:30 PM	Peak Integrated by Software
VN1022WBS01	VN084453.D	1,2,3-Trichloropropane	SAM	10/23/2024 9:49:33 AM	MMDadoda	10/23/2024 1:06:30 PM	Peak Integrated by Software
VN1022WBSD01	VN084454.D	1,2,3-Trichloropropane	SAM	10/23/2024 9:49:38 AM	MMDadoda	10/23/2024 1:06:29 PM	Peak Integrated by Software
P4397-06	VN084462.D	Methylene Chloride	SAM	10/23/2024 9:49:44 AM	MMDadoda	10/23/2024 1:06:31 PM	Peak Integrated by Software
VSTDCCC050	VN084464.D	1,2,3-Trichloropropane	SAM	10/23/2024 9:49:49 AM	MMDadoda	10/23/2024 1:06:32 PM	Peak Integrated by Software

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

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

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102224

Review By	Semsettin Yesilyurt	Review On	10/23/2024 9:50:24 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/23/2024 1:06:37 PM		
SubDirectory	VN102224	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131018
Initial Calibration Stds	
CCC	VP131019,VP131020
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084449.D	22 Oct 2024 08:33	JC\MD	Ok
2	VSTDCCC050	VN084450.D	22 Oct 2024 12:50	JC\MD	Ok,M
3	VN1022MBL01	VN084451.D	22 Oct 2024 13:14	JC\MD	Ok
4	VN1022WBL01	VN084452.D	22 Oct 2024 13:38	JC\MD	Ok
5	VN1022WBS01	VN084453.D	22 Oct 2024 14:01	JC\MD	Ok,M
6	VN1022WBSD01	VN084454.D	22 Oct 2024 14:45	JC\MD	Ok,M
7	P4475-04	VN084455.D	22 Oct 2024 15:09	JC\MD	Ok
8	P4475-01	VN084456.D	22 Oct 2024 15:33	JC\MD	Ok
9	IBLK	VN084457.D	22 Oct 2024 16:21	JC\MD	Ok
10	P4475-05	VN084458.D	22 Oct 2024 16:45	JC\MD	Ok
11	P4475-06	VN084459.D	22 Oct 2024 17:09	JC\MD	Ok
12	P4475-03	VN084460.D	22 Oct 2024 17:33	JC\MD	Ok
13	P4475-02	VN084461.D	22 Oct 2024 17:57	JC\MD	Ok
14	P4397-06	VN084462.D	22 Oct 2024 18:21	JC\MD	Ok,M
15	P4460-04	VN084463.D	22 Oct 2024 18:46	JC\MD	Ok
16	VSTDCCC050	VN084464.D	22 Oct 2024 19:10	JC\MD	Ok,M

M : Manual Integration

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

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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Fax : 908 789 8922

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 # VN102224

Review By	Semsettin Yesilyurt	Review On	10/23/2024 9:50:24 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/23/2024 1:06:37 PM		
SubDirectory	VN102224	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131018
Initial Calibration Stds	
CCC	VP131019,VP131020
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084449.D	22 Oct 2024 08:33		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084450.D	22 Oct 2024 12:50		JC\MD	Ok,M
3	VN1022MBL01	VN1022MBL01	VN084451.D	22 Oct 2024 13:14		JC\MD	Ok
4	VN1022WBL01	VN1022WBL01	VN084452.D	22 Oct 2024 13:38		JC\MD	Ok
5	VN1022WBS01	VN1022WBS01	VN084453.D	22 Oct 2024 14:01		JC\MD	Ok,M
6	VN1022WBSD01	VN1022WBSD01	VN084454.D	22 Oct 2024 14:45		JC\MD	Ok,M
7	P4475-04	BP-VPB-190-GW-238-2	VN084455.D	22 Oct 2024 15:09		JC\MD	Ok
8	P4475-01	BP-VPB-190-TB-20241	VN084456.D	22 Oct 2024 15:33	TB	JC\MD	Ok
9	IBLK	IBLK	VN084457.D	22 Oct 2024 16:21		JC\MD	Ok
10	P4475-05	BP-VPB-190-GW-258-2	VN084458.D	22 Oct 2024 16:45		JC\MD	Ok
11	P4475-06	BP-VPB-190-GW-278-2	VN084459.D	22 Oct 2024 17:09		JC\MD	Ok
12	P4475-03	BP-VPB-190-GW-223-2	VN084460.D	22 Oct 2024 17:33		JC\MD	Ok
13	P4475-02	BP-VPB-190-DUP-2024	VN084461.D	22 Oct 2024 17:57		JC\MD	Ok
14	P4397-06	WB-301-BOT	VN084462.D	22 Oct 2024 18:21		JC\MD	Ok,M
15	P4460-04	WB-303-BOT	VN084463.D	22 Oct 2024 18:46		JC\MD	Ok
16	VSTDCCC050	VSTDCCC050EC	VN084464.D	22 Oct 2024 19:10		JC\MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**SOIL**			**10/10/24**			**10/11/24**
			VOC-TCLVOA-10	8260D			10/14/24	
P4397-02	**WB-301-BOT**	**SOIL**			**10/10/24**			**10/11/24**
			VOC-TCLVOA-10	8260D			10/14/24	
P4397-04	**WB-301-SW**	**Water**			**10/10/24**			**10/11/24**
			VOC-TCLVOA-10	8260-Low			10/15/24	
P4397-05	**TB-10102024**	**Water**			**10/11/24**			**10/11/24**
			VOC-TCLVOA-10	8260-Low			10/15/24	
P4397-06	**WB-301-BOT**	**TCLP**			**10/10/24**			**10/11/24**
			TCLP VOA	8260D			10/22/24	

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164262

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

TCLP Filter ID : 50223706

Start Prep Date : 10/18/2024 **Time :** 17:00

End Prep Date : 10/19/2024 **Time :** 10:15

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °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:

TUMBLER ZHE-1 checked,30 rpm. ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 mintues of tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/21/24 @.JP	JP Lab Room	MD NUCLEUS
@1:00	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164262

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
P4397-06	WB-301-BOT	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4443-05	OG-315-HR-502-COMP-29	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4443-10	OG-315-HR-502-COMP-30	03	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4458-02	280517	04	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4460-04	WB-303-BOT	05	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
PB164262TB	LEB262	06	N/A	500	N/A	N/A	N/A	4.93	N/A	ZHE-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4397-06	WB-301-BOT	N/A	N/A	N/A	N/A	100	N/A
P4443-05	OG-315-HR-502-COMP-29	N/A	N/A	N/A	N/A	100	N/A
P4443-10	OG-315-HR-502-COMP-30	N/A	N/A	N/A	N/A	100	N/A
P4458-02	280517	N/A	N/A	N/A	N/A	100	N/A
P4460-04	WB-303-BOT	N/A	N/A	N/A	N/A	100	N/A
PB164262TB	LEB262	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE P4397 **WorkList ID :** 184596 **Department :** TCLP Extraction **Date :** 10-18-2024 14:05:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4397-06	WB-301-BOT	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06		10/10/2024	1311 ZHE
P4443-05	OG-315-HR-502-COMP-29	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311 ZHE
P4443-10	OG-315-HR-502-COMP-30	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311 ZHE
P4458-02	280517	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K51	10/18/2024	1311 ZHE
P4460-04	WB-303-BOT	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	K51	10/18/2024	1311 ZHE

Date/Time 10-18-24 16:20

Raw Sample Received by: JD WC

Raw Sample Relinquished by: CR SM

Date/Time 10-18-24 18:30

Raw Sample Received by: CR SM

Raw Sample Relinquished by: JD WC

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Hit Summary Sheet
SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**WB-301-TOP**								
P4397-01	WB-301-TOP	SOIL	Naphthalene		1,400.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	2-Methylnaphthalene		1,200.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	1,1-Biphenyl		160.000	J	140	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Acenaphthylene		170.000	J	140	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Acenaphthene		1,300.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Fluorene		780.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene		2,500.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Anthracene		1,000.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Fluoranthene		1,300.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Pyrene		1,200.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(a)anthracene		870.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Chrysene		890.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(b)fluoranthene		580.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(k)fluoranthene		300.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(a)pyrene		760.000		150	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Indeno(1,2,3-cd)pyrene		160.000	J	120	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(g,h,i)perylene		190.000	J	130	270	ug/Kg
			Total Svoc :		**14,760.00**				
P4397-01	WB-301-TOP	SOIL	.alpha.-Amyrone	*	470.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	1H-1,2,4-Triazol-5-amine, 3-brom	*	1,700.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	9H-Fluorene, 1-methyl-	*	430.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Anthracene, 2-methyl-	*	420.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1,1-(1,3-butadiyne-1,4-d	*	450.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzophenone	*	570.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Butane, 2-methoxy-2-methyl-	*	4,100.000	JB	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Cholestan-3-one	*	380.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Dibenzothiophene	*	420.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Fluoranthene, 2-methyl-	*	390.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 1,2-dimethyl-	*	420.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 2,3-dimethyl-	*	800.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 2,7-dimethyl-	*	520.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 2-ethyl-	*	580.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene, 1-methyl-	*	850.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene, 2,5-dimethyl-	*	550.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene, 2-methyl-	*	730.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	unknown10.839	*	380.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	unknown17.298	*	360.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P4397-01	WB-301-TOP	SOIL	Indeno[2,1-a]indene, 5,10-dihydrc	*	510.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	1-Methylnaphthalene	*	1,100.000	J	130	270	ug/Kg
			Total Tics :		**16,130.00**				
			Total Concentration:		**30,890.00**				
Client ID :	**WB-301-BOT**								
P4397-02	WB-301-BOT	SOIL	Acenaphthene		140.000	J	110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Phenanthrene		330.000		110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Anthracene		110.000	J	110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Fluoranthene		150.000	J	110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Pyrene		130.000	J	110	220	ug/Kg
			Total Svoc :		**860.00**				
P4397-02	WB-301-BOT	SOIL	2-Bromo dodecane	*	110.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Heptadecyl heptafluorobutyrate	*	160.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Hexadecane	*	91.600	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Methanone, (1-hydroxycyclohexy	*	96.900	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Naphthalene, 2,3-dimethyl-	*	110.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	n-Hexadecanoic acid	*	340.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Nonadecane	*	91.200	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	unknown12.022	*	150.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	unknown12.498	*	100.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Benzophenone	*	690.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Butane, 2-methoxy-2-methyl-	*	4,000.000	JB	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Cholestan-3-one	*	100.000	J	0	0	ug/Kg
			Total Tics :		**6,309.70**				
			Total Concentration:		**7,169.70**				
Client ID :	**WB-301-SW**								
P4397-04	WB-301-SW	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	2.600	AB	0	0	ug/L
P4397-04	WB-301-SW	WATER	Benzophenone	*	2.600	J	0	0	ug/L
P4397-04	WB-301-SW	WATER	Butane, 2-methoxy-2-methyl-	*	220.000	JB	0	0	ug/L
P4397-04	WB-301-SW	WATER	n-Hexadecanoic acid	*	2.100	J	0	0	ug/L
			Total Tics :		**227.30**				
			Total Concentration:		**227.30**				

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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	63.3
Sample Wt/Vol:	30.09 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
BF139979.D	1	10/14/24 10:40	10/23/24 22:17	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	290	U	290	520	ug/Kg
108-95-2	Phenol	130	U	130	270	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	130	U	130	270	ug/Kg
95-57-8	2-Chlorophenol	130	U	130	270	ug/Kg
95-48-7	2-Methylphenol	130	U	130	270	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	140	U	140	270	ug/Kg
98-86-2	Acetophenone	140	U	140	270	ug/Kg
65794-96-9	3+4-Methylphenols	130	U	130	520	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	63.5	U	63.5	130	ug/Kg
67-72-1	Hexachloroethane	130	U	130	270	ug/Kg
98-95-3	Nitrobenzene	140	U	140	270	ug/Kg
78-59-1	Isophorone	130	U	130	270	ug/Kg
88-75-5	2-Nitrophenol	150	U	150	270	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	150	270	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	U	140	270	ug/Kg
120-83-2	2,4-Dichlorophenol	120	U	120	270	ug/Kg
91-20-3	Naphthalene	1400		130	270	ug/Kg
106-47-8	4-Chloroaniline	130	UQ	130	270	ug/Kg
87-68-3	Hexachlorobutadiene	130	U	130	270	ug/Kg
105-60-2	Caprolactam	140	U	140	520	ug/Kg
59-50-7	4-Chloro-3-methylphenol	120	U	120	270	ug/Kg
91-57-6	2-Methylnaphthalene	1200		130	270	ug/Kg
77-47-4	Hexachlorocyclopentadiene	250	UQ	250	520	ug/Kg
88-06-2	2,4,6-Trichlorophenol	110	U	110	270	ug/Kg
95-95-4	2,4,5-Trichlorophenol	120	U	120	270	ug/Kg
92-52-4	1,1-Biphenyl	160	J	140	270	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	130	270	ug/Kg
88-74-4	2-Nitroaniline	150	U	150	270	ug/Kg
131-11-3	Dimethylphthalate	130	U	130	270	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	63.3
Sample Wt/Vol:	30.09 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
BF139979.D	1	10/14/24 10:40	10/23/24 22:17	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	J	140	270	ug/Kg
606-20-2	2,6-Dinitrotoluene	130	U	130	270	ug/Kg
99-09-2	3-Nitroaniline	140	UQ	140	270	ug/Kg
83-32-9	Acenaphthene	1300		130	270	ug/Kg
51-28-5	2,4-Dinitrophenol	380	U	380	520	ug/Kg
100-02-7	4-Nitrophenol	180	U	180	520	ug/Kg
132-64-9	Dibenzofuran	130	U	130	270	ug/Kg
121-14-2	2,4-Dinitrotoluene	140	U	140	270	ug/Kg
84-66-2	Diethylphthalate	130	U	130	270	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	130	U	130	270	ug/Kg
86-73-7	Fluorene	780		130	270	ug/Kg
100-01-6	4-Nitroaniline	170	U	170	270	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	180	UQ	180	520	ug/Kg
86-30-6	n-Nitrosodiphenylamine	130	U	130	270	ug/Kg
101-55-3	4-Bromophenyl-phenylether	120	U	120	270	ug/Kg
118-74-1	Hexachlorobenzene	130	U	130	270	ug/Kg
1912-24-9	Atrazine	140	U	140	270	ug/Kg
87-86-5	Pentachlorophenol	120	U	120	520	ug/Kg
85-01-8	Phenanthrene	2500		130	270	ug/Kg
120-12-7	Anthracene	1000		130	270	ug/Kg
86-74-8	Carbazole	130	U	130	270	ug/Kg
84-74-2	Di-n-butylphthalate	130	U	130	270	ug/Kg
206-44-0	Fluoranthene	1300		130	270	ug/Kg
129-00-0	Pyrene	1200		130	270	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	150	270	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	U	160	520	ug/Kg
56-55-3	Benzo(a)anthracene	870		130	270	ug/Kg
218-01-9	Chrysene	890		130	270	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	140	U	140	270	ug/Kg
117-84-0	Di-n-octyl phthalate	170	U	170	520	ug/Kg
205-99-2	Benzo(b)fluoranthene	580		130	270	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	63.3
Sample Wt/Vol:	30.09 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
BF139979.D	1	10/14/24 10:40	10/23/24 22:17	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	300		130	270	ug/Kg
50-32-8	Benzo(a)pyrene	760		150	270	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	160	J	120	270	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	130	U	130	270	ug/Kg
191-24-2	Benzo(g,h,i)perylene	190	J	130	270	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	140	270	ug/Kg
123-91-1	1,4-Dioxane	170	U	170	270	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	120	U	120	270	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.5		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	83.3		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.9		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.6		30 (20) - 130 (109)	60%	SPK: 100
118-79-6	2,4,6-Tribromophenol	75.7		30 (10) - 130 (116)	50%	SPK: 150
1718-51-0	Terphenyl-d14	40.6		30 (10) - 130 (105)	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	147000	6.887			
1146-65-2	Naphthalene-d8	535000	8.169			
15067-26-2	Acenaphthene-d10	260000	9.928			
1517-22-2	Phenanthrene-d10	370000	11.41			
1719-03-5	Chrysene-d12	319000	14.051			
1520-96-3	Perylene-d12	312000	15.533			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	4100	JB		2.21	ug/Kg
90-12-0	1-Methylnaphthalene	1100	J		8.98	ug/Kg
000939-27-5	Naphthalene, 2-ethyl-	580	J		9.44	ug/Kg
000582-16-1	Naphthalene, 2,7-dimethyl-	520	J		9.51	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	800	J		9.58	ug/Kg
000573-98-8	Naphthalene, 1,2-dimethyl-	420	J		9.70	ug/Kg
000119-61-9	Benzophenone	570	J		10.6	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	63.3
Sample Wt/Vol:	30.09 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
BF139979.D	1	10/14/24 10:40	10/23/24 22:17	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown10.839	380	J		10.8	ug/Kg
001730-37-6	9H-Fluorene, 1-methyl-	430	J		11.0	ug/Kg
000132-65-0	Dibenzothiophene	420	J		11.3	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	730	J		11.9	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	850	J		11.9	ug/Kg
000613-12-7	Anthracene, 2-methyl-	420	J		12.0	ug/Kg
1000460-85-7	1H-1,2,4-Triazol-5-amine, 3-bromo-	1700	J		12.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	550	J		12.5	ug/Kg
006543-29-9	Indeno[2,1-a]indene, 5,10-dihydro-	510	J		12.5	ug/Kg
000886-66-8	Benzene, 1,1-(1,3-butadiyne-1,4-d	450	J		12.7	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	390	J		13.2	ug/Kg
015600-08-5	Cholestan-3-one	380	J		16.5	ug/Kg
	unknown17.298	360	J		17.3	ug/Kg
000638-96-0	.alpha.-Amyrone	470	J		18.2	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139976.D	1	10/14/24 10:40	10/23/24 20:51	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	240	U	240	430	ug/Kg
108-95-2	Phenol	110	U	110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	110	U	110	220	ug/Kg
95-57-8	2-Chlorophenol	110	U	110	220	ug/Kg
95-48-7	2-Methylphenol	110	U	110	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	120	U	120	220	ug/Kg
98-86-2	Acetophenone	110	U	110	220	ug/Kg
65794-96-9	3+4-Methylphenols	100	U	100	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.0	U	53.0	110	ug/Kg
67-72-1	Hexachloroethane	110	U	110	220	ug/Kg
98-95-3	Nitrobenzene	120	U	120	220	ug/Kg
78-59-1	Isophorone	110	U	110	220	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	99.3	U	99.3	220	ug/Kg
91-20-3	Naphthalene	110	U	110	220	ug/Kg
106-47-8	4-Chloroaniline	110	UQ	110	220	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	220	ug/Kg
105-60-2	Caprolactam	110	U	110	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	100	U	100	220	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	210	UQ	210	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	93.9	U	93.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	97.3	U	97.3	220	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	220	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	220	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	220	ug/Kg
131-11-3	Dimethylphthalate	110	U	110	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139976.D	1	10/14/24 10:40	10/23/24 20:51	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	220	ug/Kg
99-09-2	3-Nitroaniline	120	UQ	120	220	ug/Kg
83-32-9	Acenaphthene	140	J	110	220	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	320	430	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	430	ug/Kg
132-64-9	Dibenzofuran	110	U	110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	220	ug/Kg
84-66-2	Diethylphthalate	110	U	110	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	220	ug/Kg
86-73-7	Fluorene	110	U	110	220	ug/Kg
100-01-6	4-Nitroaniline	140	U	140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	UQ	150	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	110	U	110	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	100	U	100	220	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	220	ug/Kg
1912-24-9	Atrazine	120	U	120	220	ug/Kg
87-86-5	Pentachlorophenol	100	U	100	430	ug/Kg
85-01-8	Phenanthrene	330		110	220	ug/Kg
120-12-7	Anthracene	110	J	110	220	ug/Kg
86-74-8	Carbazole	110	U	110	220	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	220	ug/Kg
206-44-0	Fluoranthene	150	J	110	220	ug/Kg
129-00-0	Pyrene	130	J	110	220	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	130	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	130	U	130	430	ug/Kg
56-55-3	Benzo(a)anthracene	110	U	110	220	ug/Kg
218-01-9	Chrysene	100	U	100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	120	U	120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	U	110	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139976.D	1	10/14/24 10:40	10/23/24 20:51	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	U	110	220	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	U	110	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	220	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	98.2	U	98.2	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	113		30 (18) - 130 (112)	76%	SPK: 150
13127-88-3	Phenol-d6	108		30 (15) - 130 (107)	72%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.8		30 (18) - 130 (107)	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.6		30 (20) - 130 (109)	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		30 (10) - 130 (116)	68%	SPK: 150
1718-51-0	Terphenyl-d14	57.6		30 (10) - 130 (105)	58%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	146000	6.893			
1146-65-2	Naphthalene-d8	542000	8.169			
15067-26-2	Acenaphthene-d10	263000	9.922			
1517-22-2	Phenanthrene-d10	381000	11.41			
1719-03-5	Chrysene-d12	321000	14.051			
1520-96-3	Perylene-d12	307000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	4000	JB		2.22	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.12	ug/Kg
000544-76-3	Hexadecane	91.6	J		9.32	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	110	J		9.58	ug/Kg
000629-92-5	Nonadecane	91.2	J		10.4	ug/Kg
000119-61-9	Benzophenone	690	J		10.6	ug/Kg
013187-99-0	2-Bromo dodecane	110	J		10.8	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139976.D	1	10/14/24 10:40	10/23/24 20:51	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	96.9	J		10.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	340	J		11.9	ug/Kg
	unknown12.022	150	J		12.0	ug/Kg
	unknown12.498	100	J		12.5	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	160	J		13.9	ug/Kg
015600-08-5	Cholestan-3-one	100	J		16.5	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	960 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
BF139975.D	1	10/15/24 08:40	10/23/24 20:22	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.20	U	4.20	10.4	ug/L
108-95-2	Phenol	0.97	U	0.97	5.20	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.20	ug/L
95-57-8	2-Chlorophenol	0.74	U	0.74	5.20	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.20	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.4	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.10	U	1.10	5.20	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.20	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.20	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.20	ug/L
105-67-9	2,4-Dimethylphenol	1.60	U	1.60	5.20	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.10	U	1.10	5.20	ug/L
120-83-2	2,4-Dichlorophenol	0.92	U	0.92	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
106-47-8	4-Chloroaniline	1.40	UQ	1.40	5.20	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.20	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.4	ug/L
59-50-7	4-Chloro-3-methylphenol	0.88	U	0.88	5.20	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.20	ug/L
77-47-4	Hexachlorocyclopentadiene	5.20	UQ	5.20	10.4	ug/L
88-06-2	2,4,6-Trichlorophenol	0.93	U	0.93	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.20	ug/L
92-52-4	1,1-Biphenyl	0.95	U	0.95	5.20	ug/L
91-58-7	2-Chloronaphthalene	1.00	U	1.00	5.20	ug/L
88-74-4	2-Nitroaniline	1.50	U	1.50	5.20	ug/L
131-11-3	Dimethylphthalate	0.97	U	0.97	5.20	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	960 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
BF139975.D	1	10/15/24 08:40	10/23/24 20:22	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.20	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.20	ug/L
99-09-2	3-Nitroaniline	1.40	UQ	1.40	5.20	ug/L
83-32-9	Acenaphthene	0.84	U	0.84	5.20	ug/L
51-28-5	2,4-Dinitrophenol	6.70	U	6.70	10.4	ug/L
100-02-7	4-Nitrophenol	2.10	U	2.10	10.4	ug/L
132-64-9	Dibenzofuran	0.97	U	0.97	5.20	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.20	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.20	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.20	ug/L
86-73-7	Fluorene	1.00	U	1.00	5.20	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.20	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.20	UQ	3.20	10.4	ug/L
86-30-6	n-Nitrosodiphenylamine	0.93	U	0.93	5.20	ug/L
101-55-3	4-Bromophenyl-phenylether	0.99	U	0.99	5.20	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.20	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.20	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.4	ug/L
85-01-8	Phenanthrene	0.93	U	0.93	5.20	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.20	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.20	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.20	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.20	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.20	ug/L
85-68-7	Butylbenzylphthalate	2.20	U	2.20	5.20	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	UQ	1.30	10.4	ug/L
56-55-3	Benzo(a)anthracene	0.98	U	0.98	5.20	ug/L
218-01-9	Chrysene	0.90	U	0.90	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.00	U	2.00	5.20	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.4	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.20	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	960 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
BF139975.D	1	10/15/24 08:40	10/23/24 20:22	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.20	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.20	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.20	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.20	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.82	U	0.82	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	63.8		15 (10) - 110 (139)	43%	SPK: 150
13127-88-3	Phenol-d6	44.2		15 (10) - 110 (134)	29%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.9		30 (49) - 130 (133)	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.7		30 (52) - 130 (132)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	112		15 (44) - 110 (137)	75%	SPK: 150
1718-51-0	Terphenyl-d14	67.3		30 (48) - 130 (125)	67%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	147000	6.887			
1146-65-2	Naphthalene-d8	542000	8.169			
15067-26-2	Acenaphthene-d10	276000	9.922			
1517-22-2	Phenanthrene-d10	397000	11.41			
1719-03-5	Chrysene-d12	341000	14.051			
1520-96-3	Perylene-d12	312000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	220	JB		2.20	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.60	AB		5.11	ug/L
000119-61-9	Benzophenone	2.60	J		10.6	ug/L
000057-10-3	n-Hexadecanoic acid	2.10	J		11.9	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	960 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
BF139975.D	1	10/15/24 08:40	10/23/24 20:22	PB164154

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.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4397-01	WB-301-TOP	2-Fluorophenol	150	87.5	58		30 (18)	130 (112)
		Phenol-d6	150	83.3	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	61.9	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.6	60		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	75.7	50		30 (10)	130 (116)
		Terphenyl-d14	100	40.6	41		30 (10)	130 (105)
P4397-02	WB-301-BOT	2-Fluorophenol	150	113	76		30 (18)	130 (112)
		Phenol-d6	150	108	72		30 (15)	130 (107)
		Nitrobenzene-d5	100	83.8	84		30 (18)	130 (107)
		2-Fluorobiphenyl	100	85.6	86		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	102	68		30 (10)	130 (116)
		Terphenyl-d14	100	57.6	58		30 (10)	130 (105)
P4397-02MS	WB-301-BOTMS	2-Fluorophenol	150	115	76		30 (18)	130 (112)
		Phenol-d6	150	111	74		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.2	87		30 (18)	130 (107)
		2-Fluorobiphenyl	100	87.7	88		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	114	76		30 (10)	130 (116)
		Terphenyl-d14	100	62.7	63		30 (10)	130 (105)
P4397-02MSD	WB-301-BOTMSD	2-Fluorophenol	150	116	77		30 (18)	130 (112)
		Phenol-d6	150	113	75		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.7	88		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.8	87		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	115	77		30 (10)	130 (116)
		Terphenyl-d14	100	62.7	63		30 (10)	130 (105)
PB164123BL	PB164123BL	2-Fluorophenol	150	138	92		30 (18)	130 (112)
		Phenol-d6	150	136	90		30 (15)	130 (107)
		Nitrobenzene-d5	100	96.9	97		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.2	91		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	145	97		30 (10)	130 (116)
		Terphenyl-d14	100	90.4	90		30 (10)	130 (105)
PB164123BS	PB164123BS	2-Fluorophenol	150	131	87		30 (18)	130 (112)
		Phenol-d6	150	128	85		30 (15)	130 (107)
		Nitrobenzene-d5	100	96.9	97		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.6	92		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	158	105		30 (10)	130 (116)
		Terphenyl-d14	100	103	103		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4397-04	WB-301-SW	2-Fluorophenol	150	63.8	43		15 (10)	110 (139)
		Phenol-d6	150	44.2	29		15 (10)	110 (134)
		Nitrobenzene-d5	100	96.9	97		30 (49)	130 (133)
		2-Fluorobiphenyl	100	95.7	96		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	112	75		15 (44)	110 (137)
		Terphenyl-d14	100	67.3	67		30 (48)	130 (125)
PB164154BL	PB164154BL	2-Fluorophenol	150	127	85		15 (10)	110 (139)
		Phenol-d6	150	125	83		15 (10)	110 (134)
		Nitrobenzene-d5	100	95.0	95		30 (49)	130 (133)
		2-Fluorobiphenyl	100	88.9	89		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	147	98		15 (44)	110 (137)
		Terphenyl-d14	100	93.8	94		30 (48)	130 (125)
PB164154BS	PB164154BS	2-Fluorophenol	150	129	86		15 (10)	110 (139)
		Phenol-d6	150	127	85		15 (10)	110 (134)
		Nitrobenzene-d5	100	98.5	98		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.3	93		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	159	106		15 (44)	110 (137)
		Terphenyl-d14	100	98.4	98		30 (48)	130 (125)
PB164154BSD	PB164154BSD	2-Fluorophenol	150	128	85		15 (10)	110 (139)
		Phenol-d6	150	126	84		15 (10)	110 (134)
		Nitrobenzene-d5	100	96.3	96		30 (49)	130 (133)
		2-Fluorobiphenyl	100	90.4	90		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	161	107		15 (44)	110 (137)
		Terphenyl-d14	100	100	100		30 (48)	130 (125)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

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: P4397-02MS		**Client Sample ID: WB-301-BOTMS**						**DataFile: BF139977.D**			
Benzaldehyde	2200	0	830	ug/Kg	38				20 (10)	160 (86)	
Phenol	2200	0	2100	ug/Kg	95				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2200	0	2200	ug/Kg	100				70 (54)	130 (125)	
2-Chlorophenol	2200	0	2200	ug/Kg	100				70 (79)	130 (107)	
2-Methylphenol	2200	0	2200	ug/Kg	100				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2200	0	2100	ug/Kg	95				70 (65)	130 (110)	
Acetophenone	2200	0	2200	ug/Kg	100				70 (75)	130 (111)	
3+4-Methylphenols	2200	0	2100	ug/Kg	95				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	2200	0	2100	ug/Kg	95				70 (59)	130 (119)	
Hexachloroethane	2200	0	2100	ug/Kg	95				20 (65)	160 (117)	
Nitrobenzene	2200	0	2200	ug/Kg	100				70 (70)	130 (119)	
Isophorone	2200	0	2200	ug/Kg	100				70 (76)	130 (122)	
2-Nitrophenol	2200	0	2600	ug/Kg	118				70 (54)	130 (145)	
2,4-Dimethylphenol	2200	0	2500	ug/Kg	114				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	2200	0	2200	ug/Kg	100				70 (68)	130 (112)	
2,4-Dichlorophenol	2200	0	2200	ug/Kg	100				70 (72)	130 (118)	
Naphthalene	2200	0	2200	ug/Kg	100				70 (72)	130 (110)	
4-Chloroaniline	2200	0	550	ug/Kg	25	*			70 (10)	130 (91)	
Hexachlorobutadiene	2200	0	2200	ug/Kg	100				70 (66)	130 (114)	
Caprolactam	2200	0	2100	ug/Kg	95				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2200	0	2100	ug/Kg	95				70 (57)	130 (132)	
2-Methylnaphthalene	2200	0	2200	ug/Kg	100				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4400	0	3100	ug/Kg	70				20 (10)	160 (175)	
2,4,6-Trichlorophenol	2200	0	2400	ug/Kg	109				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2200	0	2200	ug/Kg	100				70 (72)	130 (117)	
1,1-Biphenyl	2200	0	2300	ug/Kg	105				70 (75)	130 (113)	
2-Chloronaphthalene	2200	0	2200	ug/Kg	100				70 (67)	130 (118)	
2-Nitroaniline	2200	0	2400	ug/Kg	109				70 (69)	130 (127)	
Dimethylphthalate	2200	0	2400	ug/Kg	109				70 (70)	130 (113)	
Acenaphthylene	2200	0	2300	ug/Kg	105				70 (79)	130 (118)	
2,6-Dinitrotoluene	2200	0	2300	ug/Kg	105				70 (70)	130 (125)	
3-Nitroaniline	2200	0	1300	ug/Kg	59	*			70 (30)	130 (99)	
Acenaphthene	2200	140	2400	ug/Kg	103				70 (70)	130 (121)	
2,4-Dinitrophenol	4400	0	2400	ug/Kg	55				20 (10)	160 (155)	
4-Nitrophenol	4400	0	4100	ug/Kg	93				20 (45)	160 (133)	
Dibenzofuran	2200	0	2200	ug/Kg	100				70 (72)	130 (110)	
2,4-Dinitrotoluene	2200	0	2400	ug/Kg	109				70 (55)	130 (128)	
Diethylphthalate	2200	0	2200	ug/Kg	100				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2200	0	2200	ug/Kg	100				70 (71)	130 (108)	
Fluorene	2200	0	2100	ug/Kg	95				70 (68)	130 (116)	
4-Nitroaniline	2200	0	1900	ug/Kg	86				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2200	0	1900	ug/Kg	86				70 (10)	130 (160)	
N-Nitrosodiphenylamine	2200	0	2600	ug/Kg	118				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2200	0	2600	ug/Kg	118				70 (65)	130 (121)	
Hexachlorobenzene	2200	0	2400	ug/Kg	109				70 (67)	130 (118)	
Atrazine	2200	0	2900	ug/Kg	132	*			70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

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	4400	0	4400	ug/Kg	100				20 (47)	160 (128)	
Phenanthrene	2200	330	2600	ug/Kg	103				70 (52)	130 (128)	
Anthracene	2200	110	2500	ug/Kg	109				70 (62)	130 (124)	
Carbazole	2200	0	2200	ug/Kg	100				70 (59)	130 (119)	
Di-n-butylphthalate	2200	0	2500	ug/Kg	114				70 (69)	130 (118)	
Fluoranthene	2200	150	2400	ug/Kg	102				70 (44)	130 (125)	
Pyrene	2200	130	1800	ug/Kg	76				70 (26)	130 (142)	
Butylbenzylphthalate	2200	0	2400	ug/Kg	109				70 (64)	130 (126)	
3,3-Dichlorobenzidine	2200	0	1800	ug/Kg	82				70 (33)	130 (116)	
Benzo(a)anthracene	2200	0	2400	ug/Kg	109				70 (71)	130 (114)	
Chrysene	2200	0	2400	ug/Kg	109				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2200	0	3000	ug/Kg	136	*			70 (42)	130 (169)	
Di-n-octyl phthalate	2200	0	3100	ug/Kg	141	*			70 (23)	130 (175)	
Benzo(b)fluoranthene	2200	0	2600	ug/Kg	118				70 (67)	130 (121)	
Benzo(k)fluoranthene	2200	0	2400	ug/Kg	109				70 (57)	130 (134)	
Benzo(a)pyrene	2200	0	2500	ug/Kg	114				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2200	0	1500	ug/Kg	68	*			70 (40)	130 (129)	
Dibenz(a,h)anthracene	2200	0	1600	ug/Kg	73				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2200	0	1300	ug/Kg	59	*			70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2200	0	2400	ug/Kg	109				70 (69)	130 (124)	
1,4-Dioxane	2200	0	2100	ug/Kg	95				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2200	0	2100	ug/Kg	95				70 (69)	130 (112)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

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: P4397-02MSD		**Client Sample ID: WB-301-BOTMSD**						**DataFile: BF139978.D**			
Benzaldehyde	2200	0	830	ug/Kg	38		0		20 (10)	160 (86)	30 (20)
Phenol	2200	0	2200	ug/Kg	100		5		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2200	0	2200	ug/Kg	100		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2200	0	2300	ug/Kg	105		5		70 (79)	130 (107)	30 (20)
2-Methylphenol	2200	0	2200	ug/Kg	100		0		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2200	0	2100	ug/Kg	95		0		70 (65)	130 (110)	30 (20)
Acetophenone	2200	0	2200	ug/Kg	100		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2200	0	2100	ug/Kg	95		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2200	0	2100	ug/Kg	95		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	2200	0	2200	ug/Kg	100		5		20 (65)	160 (117)	30 (20)
Nitrobenzene	2200	0	2100	ug/Kg	95		5		70 (70)	130 (119)	30 (20)
Isophorone	2200	0	2200	ug/Kg	100		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2200	0	2700	ug/Kg	123		4		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2200	0	2600	ug/Kg	118		3		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2200	0	2200	ug/Kg	100		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2200	0	2200	ug/Kg	100		0		70 (72)	130 (118)	30 (20)
Naphthalene	2200	0	2200	ug/Kg	100		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2200	0	590	ug/Kg	27	*	8		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2200	0	2200	ug/Kg	100		0		70 (66)	130 (114)	30 (20)
Caprolactam	2200	0	2100	ug/Kg	95		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2200	0	2100	ug/Kg	95		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2200	0	2200	ug/Kg	100		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4400	0	3400	ug/Kg	77		10		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2200	0	2400	ug/Kg	109		0		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2200	0	2200	ug/Kg	100		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2200	0	2300	ug/Kg	105		0		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2200	0	2200	ug/Kg	100		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2200	0	2400	ug/Kg	109		0		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2200	0	2300	ug/Kg	105		4		70 (70)	130 (113)	30 (20)
Acenaphthylene	2200	0	2300	ug/Kg	105		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2200	0	2300	ug/Kg	105		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2200	0	1300	ug/Kg	59	*	0		70 (30)	130 (99)	30 (20)
Acenaphthene	2200	140	2400	ug/Kg	103		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4400	0	3000	ug/Kg	68		21		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4400	0	4200	ug/Kg	95		2		20 (45)	160 (133)	30 (20)
Dibenzofuran	2200	0	2200	ug/Kg	100		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2200	0	2400	ug/Kg	109		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	2200	0	2200	ug/Kg	100		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2200	0	2100	ug/Kg	95		5		70 (71)	130 (108)	30 (20)
Fluorene	2200	0	2100	ug/Kg	95		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2200	0	1900	ug/Kg	86		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2200	0	2200	ug/Kg	100		15		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2200	0	2500	ug/Kg	114		3		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2200	0	2500	ug/Kg	114		3		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2200	0	2300	ug/Kg	105		4		70 (67)	130 (118)	30 (20)
Atrazine	2200	0	2900	ug/Kg	132	*	0		70 (79)	130 (127)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

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	4400	0	4400	ug/Kg	100		0		20 (47)	160 (128)	30 (20)
Phenanthrene	2200	330	2500	ug/Kg	99		4		70 (52)	130 (128)	30 (20)
Anthracene	2200	110	2400	ug/Kg	104		5		70 (62)	130 (124)	30 (20)
Carbazole	2200	0	2200	ug/Kg	100		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2200	0	2500	ug/Kg	114		0		70 (69)	130 (118)	30 (20)
Fluoranthene	2200	150	2400	ug/Kg	102		0		70 (44)	130 (125)	30 (20)
Pyrene	2200	130	1800	ug/Kg	76		0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2200	0	2500	ug/Kg	114		4		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2200	0	1900	ug/Kg	86		5		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2200	0	2300	ug/Kg	105		4		70 (71)	130 (114)	30 (20)
Chrysene	2200	0	2400	ug/Kg	109		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2200	0	3000	ug/Kg	136	*	0		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2200	0	3000	ug/Kg	136	*	4		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2200	0	2700	ug/Kg	123		4		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2200	0	2400	ug/Kg	109		0		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2200	0	2500	ug/Kg	114		0		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2200	0	1600	ug/Kg	73		7		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2200	0	1600	ug/Kg	73		0		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2200	0	1300	ug/Kg	59	*	0		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2200	0	2400	ug/Kg	109		0		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2200	0	2100	ug/Kg	95		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2200	0	2100	ug/Kg	95		0		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139959.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164123BS	Benzaldehyde	1700	580	ug/Kg	34				20 (10)	160 (133)	
	Phenol	1700	1600	ug/Kg	94				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1600	ug/Kg	94				70 (60)	130 (101)	
	2-Chlorophenol	1700	1700	ug/Kg	100				70 (65)	130 (112)	
	2-Methylphenol	1700	1600	ug/Kg	94				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1500	ug/Kg	88				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1600	ug/Kg	94				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1500	ug/Kg	88				70 (57)	130 (101)	
	Isophorone	1700	1600	ug/Kg	94				70 (59)	130 (99)	
	2-Nitrophenol	1700	1900	ug/Kg	112				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1900	ug/Kg	112				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				70 (62)	130 (107)	
	Naphthalene	1700	1600	ug/Kg	94				70 (62)	130 (100)	
	4-Chloroaniline	1700	860	ug/Kg	51		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1700	ug/Kg	100				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1600	ug/Kg	94				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	5900	ug/Kg	179		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				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	1800	ug/Kg	106				70 (66)	130 (101)	
	Dimethylphthalate	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Acenaphthylene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1700	ug/Kg	100				70 (61)	130 (104)	
	3-Nitroaniline	1700	1100	ug/Kg	65		*		70 (28)	130 (100)	
	Acenaphthene	1700	1800	ug/Kg	106				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	4400	ug/Kg	133				20 (37)	160 (128)	
	4-Nitrophenol	3300	3500	ug/Kg	106				20 (48)	160 (119)	
	Dibenzofuran	1700	1600	ug/Kg	94				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1900	ug/Kg	112				70 (60)	130 (106)	
	Diethylphthalate	1700	1600	ug/Kg	94				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1600	ug/Kg	94				70 (61)	130 (101)	
	4-Nitroaniline	1700	1800	ug/Kg	106				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	2300	ug/Kg	135		*		70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139959.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164123BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	1900	ug/Kg	112				70 (47)	130 (152)	
	Pentachlorophenol	3300	3400	ug/Kg	103				20 (67)	160 (105)	
	Phenanthrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Anthracene	1700	1700	ug/Kg	100				70 (61)	130 (105)	
	Carbazole	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				70 (58)	130 (104)	
	Fluoranthene	1700	1600	ug/Kg	94				70 (57)	130 (107)	
	Pyrene	1700	1700	ug/Kg	100				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1800	ug/Kg	106				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1300	ug/Kg	76				70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1700	ug/Kg	100				70 (60)	130 (102)	
	Chrysene	1700	1700	ug/Kg	100				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1900	ug/Kg	112				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1900	ug/Kg	112				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1800	ug/Kg	106				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1800	ug/Kg	106				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				70 (53)	130 (101)	
	1,4-Dioxane	1700	1300	ug/Kg	76				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1800	ug/Kg	106				70 (59)	130 (108)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139960.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164154BS	Benzaldehyde	50	17.2	ug/L	34				20 (10)	160 (162)	
	Phenol	50	46.9	ug/L	94				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	46.9	ug/L	94				70 (62)	130 (103)	
	2-Chlorophenol	50	49.8	ug/L	100				70 (70)	130 (117)	
	2-Methylphenol	50	48.9	ug/L	98				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	46.0	ug/L	92				70 (65)	130 (100)	
	Acetophenone	50	46.3	ug/L	93				70 (60)	130 (104)	
	3+4-Methylphenols	50	46.5	ug/L	93				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	46.7	ug/L	93				70 (57)	130 (107)	
	Hexachloroethane	50	47.3	ug/L	95				20 (76)	160 (118)	
	Nitrobenzene	50	46.2	ug/L	92				70 (58)	130 (106)	
	Isophorone	50	48.7	ug/L	97				70 (61)	130 (102)	
	2-Nitrophenol	50	58.6	ug/L	117				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	57.2	ug/L	114				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	48.3	ug/L	97				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	49.9	ug/L	100				70 (66)	130 (115)	
	Naphthalene	50	46.9	ug/L	94				70 (64)	130 (107)	
	4-Chloroaniline	50	21.5	ug/L	43		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	47.9	ug/L	96				70 (69)	130 (101)	
	Caprolactam	50	49.5	ug/L	99				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	49.5	ug/L	99				70 (65)	130 (114)	
	2-Methylnaphthalene	50	48.6	ug/L	97				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	180	ug/L	180		*		20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	52.2	ug/L	104				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	49.7	ug/L	99				70 (70)	130 (106)	
	1,1-Biphenyl	50	47.5	ug/L	95				70 (72)	130 (98)	
	2-Chloronaphthalene	50	46.5	ug/L	93				70 (59)	130 (106)	
	2-Nitroaniline	50	54.0	ug/L	108				70 (73)	130 (114)	
	Dimethylphthalate	50	50.5	ug/L	101				70 (64)	130 (103)	
	Acenaphthylene	50	50.9	ug/L	102				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	52.4	ug/L	105				70 (64)	130 (110)	
	3-Nitroaniline	50	31.2	ug/L	62		*		70 (28)	130 (100)	
	Acenaphthene	50	55.1	ug/L	110				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	130	ug/L	130				20 (36)	160 (166)	
	4-Nitrophenol	100	110	ug/L	110				20 (45)	160 (147)	
	Dibenzofuran	50	48.2	ug/L	96				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	57.8	ug/L	116				70 (60)	130 (115)	
	Diethylphthalate	50	49.9	ug/L	100				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	48.4	ug/L	97				70 (61)	130 (104)	
	Fluorene	50	48.1	ug/L	96				70 (64)	130 (107)	
	4-Nitroaniline	50	52.6	ug/L	105				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	70.2	ug/L	140		*		70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	48.0	ug/L	96				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	49.9	ug/L	100				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139960.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164154BS	Hexachlorobenzene	50	49.6	ug/L	99				70 (73)	130 (106)	
	Atrazine	50	58.1	ug/L	116				70 (76)	130 (120)	
	Pentachlorophenol	100	99.9	ug/L	100				20 (47)	160 (114)	
	Phenanthrene	50	48.2	ug/L	96				70 (62)	130 (109)	
	Anthracene	50	50.3	ug/L	101				70 (65)	130 (110)	
	Carbazole	50	46.4	ug/L	93				70 (62)	130 (106)	
	Di-n-butylphthalate	50	49.0	ug/L	98				70 (64)	130 (106)	
	Fluoranthene	50	47.2	ug/L	94				70 (64)	130 (110)	
	Pyrene	50	48.5	ug/L	97				70 (71)	130 (103)	
	Butylbenzylphthalate	50	54.0	ug/L	108				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	35.3	ug/L	71				70 (43)	130 (108)	
	Benzo(a)anthracene	50	50.3	ug/L	101				70 (62)	130 (107)	
	Chrysene	50	50.9	ug/L	102				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	57.8	ug/L	116				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	57.1	ug/L	114				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	49.8	ug/L	100				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	48.7	ug/L	97				70 (77)	130 (105)	
	Benzo(a)pyrene	50	53.5	ug/L	107				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	53.2	ug/L	106				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	52.3	ug/L	105				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	48.5	ug/L	97				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	47.4	ug/L	95				70 (72)	130 (101)	
	1,4-Dioxane	50	39.2	ug/L	78				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	53.8	ug/L	108				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139961.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164154BSD	Benzaldehyde	50	17.2	ug/L	34	0			20 (10)	160 (162)	20 (20)
	Phenol	50	46.9	ug/L	94	0			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	46.4	ug/L	93	1			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	49.6	ug/L	99	0			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	48.5	ug/L	97	1			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	45.7	ug/L	91	1			70 (65)	130 (100)	20 (20)
	Acetophenone	50	45.3	ug/L	91	2			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	45.7	ug/L	91	2			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	46.4	ug/L	93	1			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	47.3	ug/L	95	0			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	45.5	ug/L	91	2			70 (58)	130 (106)	20 (20)
	Isophorone	50	47.3	ug/L	95	3			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	57.9	ug/L	116	1			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	55.8	ug/L	112	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	46.7	ug/L	93	3			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	48.8	ug/L	98	2			70 (66)	130 (115)	20 (20)
	Naphthalene	50	45.8	ug/L	92	2			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	19.8	ug/L	40	8	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	46.7	ug/L	93	3			70 (69)	130 (101)	20 (20)
	Caprolactam	50	51.4	ug/L	103	4			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	48.4	ug/L	97	2			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	47.3	ug/L	95	3			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	170	ug/L	170	6	*		20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	50.9	ug/L	102	3			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	49.6	ug/L	99	0			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	46.7	ug/L	93	2			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	46.1	ug/L	92	1			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	53.8	ug/L	108	0			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	49.8	ug/L	100	1			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	50.5	ug/L	101	1			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	52.2	ug/L	104	0			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	30.7	ug/L	61	2	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	53.9	ug/L	108	2			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	130	ug/L	130	0			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	110	ug/L	110	0			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	47.6	ug/L	95	1			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	57.7	ug/L	115	0			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	49.0	ug/L	98	2			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	47.6	ug/L	95	2			70 (61)	130 (104)	20 (20)
	Fluorene	50	47.4	ug/L	95	1			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	52.6	ug/L	105	0			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	70.5	ug/L	141	0	*		70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	47.7	ug/L	95	1			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	48.7	ug/L	97	2			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139961.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164154BSD	Hexachlorobenzene	50	47.9	ug/L	96	3			70 (73)	130 (106)	20 (20)
	Atrazine	50	58.6	ug/L	117	1			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	100	ug/L	100	0			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	47.5	ug/L	95	1			70 (62)	130 (109)	20 (20)
	Anthracene	50	49.3	ug/L	99	2			70 (65)	130 (110)	20 (20)
	Carbazole	50	46.6	ug/L	93	0			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	48.8	ug/L	98	0			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	46.5	ug/L	93	1			70 (64)	130 (110)	20 (20)
	Pyrene	50	49.5	ug/L	99	2			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	55.1	ug/L	110	2			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	34.2	ug/L	68	3	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	49.8	ug/L	100	1			70 (62)	130 (107)	20 (20)
	Chrysene	50	50.6	ug/L	101	1			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	57.5	ug/L	115	1			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	53.8	ug/L	108	6			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	49.3	ug/L	99	1			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	48.9	ug/L	98	0			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	54.2	ug/L	108	1			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	54.0	ug/L	108	1			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	53.1	ug/L	106	2			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	48.9	ug/L	98	1			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	46.8	ug/L	94	1			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	39.3	ug/L	79	0			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	53.9	ug/L	108	0			70 (63)	130 (116)	20 (20)

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164123BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139893.D Lab Sample ID: PB164123BL

Instrument ID: BNA_F Date Extracted: 10/14/2024

Matrix: (soil/water) SOIL Date Analyzed: 10/21/2024

Level: (low/med) LOW Time Analyzed: 10:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
WB-301-BOT	P4397-02	BF139976.D	10/23/2024
WB-301-BOTMS	P4397-02MS	BF139977.D	10/23/2024
WB-301-BOTMSD	P4397-02MSD	BF139978.D	10/23/2024
WB-301-TOP	P4397-01	BF139979.D	10/23/2024
PB164123BS	PB164123BS	BF139959.D	10/23/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164154BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139928.D Lab Sample ID: PB164154BL

Instrument ID: BNA_F Date Extracted: 10/15/2024

Matrix: (soil/water) Water Date Analyzed: 10/22/2024

Level: (low/med) LOW Time Analyzed: 14:58

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164154BS	PB164154BS	BF139960.D	10/23/2024
PB164154BSD	PB164154BSD	BF139961.D	10/23/2024
WB-301-SW	P4397-04	BF139975.D	10/23/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

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.: P4397 SDG NO.: P4397

Lab File ID: BF139891.D DFTPP Injection Date: 10/21/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.9
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	38.2
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	0.4
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	27.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (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	BF139892.D	10/21/2024	09:57
PB164123BL	PB164123BL	BF139893.D	10/21/2024	10:25

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139926.D DFTPP Injection Date: 10/22/2024

Instrument ID: BNA_F DFTPP Injection Time: 14:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.6
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	35.6
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	45.3
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	6.8
275	10.0 - 60.0% of mass 198	29.0
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	17.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (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
SSTDCCC040	SSTDCCC040	BF139927.D	10/22/2024	14:28
PB164154BL	PB164154BL	BF139928.D	10/22/2024	14:58

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139951.D DFTPP Injection Date: 10/23/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.0
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.8
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	45.1
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	6.8
275	10.0 - 60.0% of mass 198	29.4
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	18.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.9 (19.9) 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	BF139952.D	10/23/2024	09:20
PB164123BS	PB164123BS	BF139959.D	10/23/2024	12:39
PB164154BS	PB164154BS	BF139960.D	10/23/2024	13:07
PB164154BSD	PB164154BSD	BF139961.D	10/23/2024	13:36

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139964.D DFTPP Injection Date: 10/23/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.6
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	44.2
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	6.9
275	10.0 - 60.0% of mass 198	28.8
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	17.4
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	BF139965.D	10/23/2024	15:30
WB-301-SW	P4397-04	BF139975.D	10/23/2024	20:22
WB-301-BOT	P4397-02	BF139976.D	10/23/2024	20:51
WB-301-BOTMS	P4397-02MS	BF139977.D	10/23/2024	21:20
WB-301-BOTMSD	P4397-02MSD	BF139978.D	10/23/2024	21:49
WB-301-TOP	P4397-01	BF139979.D	10/23/2024	22:17

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/21/2024

Lab File ID: BF139892.D Time Analyzed: 09:57

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	170135	6.892	645389	8.18	355580	9.93
	UPPER LIMIT	340270	7.392	1290780	8.675	711160	10.427
	LOWER LIMIT	85067.5	6.392	322695	7.675	177790	9.427
	EPA SAMPLE NO.						
01	PB164123BL	167950	6.89	682521	8.17	387913	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.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/21/2024

Lab File ID: BF139892.D Time Analyzed: 09:57

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	607097	11.416	292847	14.057	323975	15.533
	UPPER LIMIT	1214190	11.916	585694	14.557	647950	16.033
	LOWER LIMIT	303549	10.916	146424	13.557	161988	15.033
	EPA SAMPLE NO.						
01	PB164123BL	717487	11.41	434664	14.05	327943	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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/22/2024

Lab File ID: BF139927.D Time Analyzed: 14:28

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	169434	6.893	628861	8.18	340877	9.93
	UPPER LIMIT	338868	7.393	1257720	8.675	681754	10.428
	LOWER LIMIT	84717	6.393	314431	7.675	170439	9.428
	EPA SAMPLE NO.						
01	PB164154BL	163319	6.89	633200	8.17	357885	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.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/22/2024

Lab File ID: BF139927.D Time Analyzed: 14:28

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	576195	11.416	272427	14.051	340524	15.533
	UPPER LIMIT	1152390	11.916	544854	14.551	681048	16.033
	LOWER LIMIT	288098	10.916	136214	13.551	170262	15.033
	EPA SAMPLE NO.						
01	PB164154BL	642786	11.41	375705	14.05	319185	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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139952.D Time Analyzed: 09:20

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	156634	6.893	590130	8.18	329153	9.93
	UPPER LIMIT	313268	7.393	1180260	8.675	658306	10.428
	LOWER LIMIT	78317	6.393	295065	7.675	164577	9.428
	EPA SAMPLE NO.						
01	PB164123BS	157015	6.89	616380	8.18	348472	9.93
02	PB164154BS	155060	6.89	598190	8.18	337425	9.93
03	PB164154BSD	161665	6.89	636044	8.18	355843	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.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139952.D Time Analyzed: 09:20

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	576587	11.416	299183	14.057	329130	15.533
	UPPER LIMIT	1153170	11.916	598366	14.557	658260	16.033
	LOWER LIMIT	288294	10.916	149592	13.557	164565	15.033
	EPA SAMPLE NO.						
01	PB164123BS	625574	11.42	318250	14.06	349349	15.53
02	PB164154BS	611801	11.42	325970	14.06	358287	15.53
03	PB164154BSD	646570	11.42	335936	14.06	357796	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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139965.D Time Analyzed: 15:30

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	159858	6.892	611382	8.18	340124	9.93
	UPPER LIMIT	319716	7.392	1222760	8.675	680248	10.428
	LOWER LIMIT	79929	6.392	305691	7.675	170062	9.428
	EPA SAMPLE NO.						
01	WB-301-TOP	147308	6.89	535162	8.17	259896	9.93
02	WB-301-BOT	146113	6.89	542139	8.17	263407	9.92
03	WB-301-BOTMS	145039	6.89	535106	8.18	263539	9.93
04	WB-301-BOTMSD	145043	6.89	544717	8.18	274724	9.93
05	WB-301-SW	146831	6.89	541523	8.17	276437	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.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139965.D Time Analyzed: 15:30

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	597021	11.416	306092	14.057	358871	15.533
	UPPER LIMIT	1194040	11.916	612184	14.557	717742	16.033
	LOWER LIMIT	298511	10.916	153046	13.557	179436	15.033
	EPA SAMPLE NO.						
01	WB-301-TOP	369608	11.41	318909	14.05	311630	15.53
02	WB-301-BOT	381099	11.41	321287	14.05	306800	15.53
03	WB-301-BOTMS	377320	11.42	297713	14.06	304160	15.53
04	WB-301-BOTMSD	399778	11.42	304493	14.06	305520	15.53
05	WB-301-SW	397037	11.41	340671	14.05	311683	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:	PB164123BL	SDG No.:	P4397
Lab Sample ID:	PB164123BL	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
BF139893.D	1	10/14/24 10:40	10/21/24 10:25	PB164123

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	82.8	U	82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	170	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	170	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	170	ug/Kg
105-60-2	Caprolactam	86.7	U	86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.3	U	71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	73.9	U	73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	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:	PB164123BL	SDG No.:	P4397
Lab Sample ID:	PB164123BL	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
BF139893.D	1	10/14/24 10:40	10/21/24 10:25	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.4	U	86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	170	ug/Kg
83-32-9	Acenaphthene	81.0	U	81.0	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	84.3	U	84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	170	ug/Kg
84-66-2	Diethylphthalate	80.0	U	80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	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	81.5	U	81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	170	ug/Kg
87-86-5	Pentachlorophenol	77.2	U	77.2	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	170	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.0	U	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:	PB164123BL	SDG No.:	P4397
Lab Sample ID:	PB164123BL	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
BF139893.D	1	10/14/24 10:40	10/21/24 10:25	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.0	U	78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.0	U	80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.6	U	74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	138		30 (18) - 130 (112)	92%	SPK: 150
13127-88-3	Phenol-d6	136		30 (15) - 130 (107)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.9		30 (18) - 130 (107)	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.2		30 (20) - 130 (109)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		30 (10) - 130 (116)	97%	SPK: 150
1718-51-0	Terphenyl-d14	90.4		30 (10) - 130 (105)	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	168000	6.893			
1146-65-2	Naphthalene-d8	683000	8.169			
15067-26-2	Acenaphthene-d10	388000	9.928			
1517-22-2	Phenanthrene-d10	717000	11.41			
1719-03-5	Chrysene-d12	435000	14.051			
1520-96-3	Perylene-d12	328000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	190	J		2.25	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	A		5.13	ug/Kg
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	240	J		17.3	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:	PB164123BL	SDG No.:	P4397
Lab Sample ID:	PB164123BL	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
BF139893.D	1	10/14/24 10:40	10/21/24 10:25	PB164123

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:	PB164154BL	SDG No.:	P4397
Lab Sample ID:	PB164154BL	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
BF139928.D	1	10/15/24 08:40	10/22/24 14:58	PB164154

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:	PB164154BL	SDG No.:	P4397
Lab Sample ID:	PB164154BL	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
BF139928.D	1	10/15/24 08:40	10/22/24 14:58	PB164154

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:	PB164154BL	SDG No.:	P4397
Lab Sample ID:	PB164154BL	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
BF139928.D	1	10/15/24 08:40	10/22/24 14:58	PB164154

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	127		15 (10) - 110 (139)	85%	SPK: 150
13127-88-3	Phenol-d6	125		15 (10) - 110 (134)	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.0		30 (49) - 130 (133)	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.9		30 (52) - 130 (132)	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	147		15 (44) - 110 (137)	98%	SPK: 150
1718-51-0	Terphenyl-d14	93.8		30 (48) - 130 (125)	94%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	163000	6.887			
1146-65-2	Naphthalene-d8	633000	8.169			
15067-26-2	Acenaphthene-d10	358000	9.928			
1517-22-2	Phenanthrene-d10	643000	11.41			
1719-03-5	Chrysene-d12	376000	14.051			
1520-96-3	Perylene-d12	319000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	4.00	J		2.24	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	7.20	A		5.13	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:	PB164154BL	SDG No.:	P4397
Lab Sample ID:	PB164154BL	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
BF139928.D	1	10/15/24 08:40	10/22/24 14:58	PB164154

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:	PB164123BS	SDG No.:	P4397
Lab Sample ID:	PB164123BS	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
BF139959.D	1	10/14/24 10:40	10/23/24 12:39	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	580		180	330	ug/Kg
108-95-2	Phenol	1600		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		83.7	170	ug/Kg
95-57-8	2-Chlorophenol	1700		83.5	170	ug/Kg
95-48-7	2-Methylphenol	1600		80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.9	170	ug/Kg
98-86-2	Acetophenone	1500		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1500		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1500		90.8	170	ug/Kg
78-59-1	Isophorone	1600		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1900		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		75.5	170	ug/Kg
91-20-3	Naphthalene	1600		82.6	170	ug/Kg
106-47-8	4-Chloroaniline	860		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.3	170	ug/Kg
105-60-2	Caprolactam	1700		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5900	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1800		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1600		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:	PB164123BS	SDG No.:	P4397
Lab Sample ID:	PB164123BS	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
BF139959.D	1	10/14/24 10:40	10/23/24 12:39	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	1100		89.2	170	ug/Kg
83-32-9	Acenaphthene	1800		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4400	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3500	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1600		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1600		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		85.6	170	ug/Kg
86-73-7	Fluorene	1600		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1800		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2300		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		85.0	170	ug/Kg
1912-24-9	Atrazine	1900		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	3400	E	77.3	330	ug/Kg
85-01-8	Phenanthrene	1600		84.0	170	ug/Kg
120-12-7	Anthracene	1700		84.4	170	ug/Kg
86-74-8	Carbazole	1600		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.3	170	ug/Kg
206-44-0	Fluoranthene	1600		81.7	170	ug/Kg
129-00-0	Pyrene	1700		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1700		80.7	170	ug/Kg
218-01-9	Chrysene	1700		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		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:	PB164123BS	SDG No.:	P4397
Lab Sample ID:	PB164123BS	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
BF139959.D	1	10/14/24 10:40	10/23/24 12:39	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1800		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1300		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	131		30 (18) - 130 (112)	87%	SPK: 150
13127-88-3	Phenol-d6	128		30 (15) - 130 (107)	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.9		30 (18) - 130 (107)	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.6		30 (20) - 130 (109)	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	158		30 (10) - 130 (116)	105%	SPK: 150
1718-51-0	Terphenyl-d14	103		30 (10) - 130 (105)	103%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	157000	6.892			
1146-65-2	Naphthalene-d8	616000	8.175			
15067-26-2	Acenaphthene-d10	348000	9.928			
1517-22-2	Phenanthrene-d10	626000	11.416			
1719-03-5	Chrysene-d12	318000	14.057			
1520-96-3	Perylene-d12	349000	15.533			

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:	PB164154BS	SDG No.:	P4397
Lab Sample ID:	PB164154BS	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
BF139960.D	1	10/15/24 08:40	10/23/24 13:07	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	17.2		4.00	10.0	ug/L
108-95-2	Phenol	46.9		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	46.9		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	49.8		0.71	5.00	ug/L
95-48-7	2-Methylphenol	48.9		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	46.0		1.40	5.00	ug/L
98-86-2	Acetophenone	46.3		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	46.5		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	46.7		1.50	2.50	ug/L
67-72-1	Hexachloroethane	47.3		1.00	5.00	ug/L
98-95-3	Nitrobenzene	46.2		1.30	5.00	ug/L
78-59-1	Isophorone	48.7		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	58.6		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	57.2		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.3		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	49.9		0.88	5.00	ug/L
91-20-3	Naphthalene	46.9		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	21.5		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	47.9		1.30	5.00	ug/L
105-60-2	Caprolactam	49.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	49.5		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	48.6		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	180	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	52.2		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.7		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.5		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	46.5		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	54.0		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	50.5		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:	PB164154BS	SDG No.:	P4397
Lab Sample ID:	PB164154BS	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
BF139960.D	1	10/15/24 08:40	10/23/24 13:07	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	50.9		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	52.4		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	31.2		1.40	5.00	ug/L
83-32-9	Acenaphthene	55.1		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	130	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	110	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	57.8		1.50	5.00	ug/L
84-66-2	Diethylphthalate	49.9		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	48.4		0.98	5.00	ug/L
86-73-7	Fluorene	48.1		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	52.6		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	70.2		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	48.0		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	49.9		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	49.6		1.10	5.00	ug/L
1912-24-9	Atrazine	58.1		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	99.9	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	48.2		0.89	5.00	ug/L
120-12-7	Anthracene	50.3		1.10	5.00	ug/L
86-74-8	Carbazole	46.4		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	49.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	47.2		1.30	5.00	ug/L
129-00-0	Pyrene	48.5		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.0		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	35.3		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	50.3		0.94	5.00	ug/L
218-01-9	Chrysene	50.9		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	57.8		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	57.1		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	49.8		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:	PB164154BS	SDG No.:	P4397
Lab Sample ID:	PB164154BS	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
BF139960.D	1	10/15/24 08:40	10/23/24 13:07	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	48.7		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	53.5		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	53.2		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	52.3		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	48.5		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	47.4		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.2		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	53.8		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	129		15 (10) - 110 (139)	86%	SPK: 150
13127-88-3	Phenol-d6	127		15 (10) - 110 (134)	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.5		30 (49) - 130 (133)	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.3		30 (52) - 130 (132)	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		15 (44) - 110 (137)	106%	SPK: 150
1718-51-0	Terphenyl-d14	98.4		30 (48) - 130 (125)	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	155000	6.893			
1146-65-2	Naphthalene-d8	598000	8.175			
15067-26-2	Acenaphthene-d10	337000	9.928			
1517-22-2	Phenanthrene-d10	612000	11.416			
1719-03-5	Chrysene-d12	326000	14.057			
1520-96-3	Perylene-d12	358000	15.533			

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:	PB164154BSD	SDG No.:	P4397
Lab Sample ID:	PB164154BSD	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
BF139961.D	1	10/15/24 08:40	10/23/24 13:36	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	17.2		4.00	10.0	ug/L
108-95-2	Phenol	46.9		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	46.4		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	49.6		0.71	5.00	ug/L
95-48-7	2-Methylphenol	48.5		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	45.7		1.40	5.00	ug/L
98-86-2	Acetophenone	45.3		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	45.7		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	46.4		1.50	2.50	ug/L
67-72-1	Hexachloroethane	47.3		1.00	5.00	ug/L
98-95-3	Nitrobenzene	45.5		1.30	5.00	ug/L
78-59-1	Isophorone	47.3		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	57.9		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	55.8		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	46.7		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	48.8		0.88	5.00	ug/L
91-20-3	Naphthalene	45.8		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	19.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.7		1.30	5.00	ug/L
105-60-2	Caprolactam	51.4		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	48.4		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	47.3		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	170	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.9		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.6		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	46.7		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	46.1		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	53.8		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	49.8		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:	PB164154BSD	SDG No.:	P4397
Lab Sample ID:	PB164154BSD	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
BF139961.D	1	10/15/24 08:40	10/23/24 13:36	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	50.5		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	52.2		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	30.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	53.9		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	130	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	110	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	47.6		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	57.7		1.50	5.00	ug/L
84-66-2	Diethylphthalate	49.0		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	47.6		0.98	5.00	ug/L
86-73-7	Fluorene	47.4		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	52.6		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	70.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	47.7		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	48.7		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	47.9		1.10	5.00	ug/L
1912-24-9	Atrazine	58.6		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	47.5		0.89	5.00	ug/L
120-12-7	Anthracene	49.3		1.10	5.00	ug/L
86-74-8	Carbazole	46.6		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	48.8		1.50	5.00	ug/L
206-44-0	Fluoranthene	46.5		1.30	5.00	ug/L
129-00-0	Pyrene	49.5		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	55.1		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	34.2		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	49.8		0.94	5.00	ug/L
218-01-9	Chrysene	50.6		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	57.5		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	53.8		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	49.3		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:	PB164154BSD	SDG No.:	P4397
Lab Sample ID:	PB164154BSD	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
BF139961.D	1	10/15/24 08:40	10/23/24 13:36	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	48.9		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	54.2		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	54.0		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	53.1		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	48.9		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	46.8		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.3		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	53.9		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	128		15 (10) - 110 (139)	85%	SPK: 150
13127-88-3	Phenol-d6	126		15 (10) - 110 (134)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.3		30 (49) - 130 (133)	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.4		30 (52) - 130 (132)	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	161		15 (44) - 110 (137)	107%	SPK: 150
1718-51-0	Terphenyl-d14	100		30 (48) - 130 (125)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	162000	6.893			
1146-65-2	Naphthalene-d8	636000	8.175			
15067-26-2	Acenaphthene-d10	356000	9.928			
1517-22-2	Phenanthrene-d10	647000	11.416			
1719-03-5	Chrysene-d12	336000	14.057			
1520-96-3	Perylene-d12	358000	15.533			

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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139977.D	1	10/14/24 10:40	10/23/24 21:20	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	830		240	430	ug/Kg
108-95-2	Phenol	2100		110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2200		110	220	ug/Kg
95-57-8	2-Chlorophenol	2200		110	220	ug/Kg
95-48-7	2-Methylphenol	2200		110	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2100		120	220	ug/Kg
98-86-2	Acetophenone	2200		110	220	ug/Kg
65794-96-9	3+4-Methylphenols	2100		100	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		52.9	110	ug/Kg
67-72-1	Hexachloroethane	2100		110	220	ug/Kg
98-95-3	Nitrobenzene	2200		120	220	ug/Kg
78-59-1	Isophorone	2200		110	220	ug/Kg
88-75-5	2-Nitrophenol	2600		120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	2500		120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2200		110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		99.1	220	ug/Kg
91-20-3	Naphthalene	2200		110	220	ug/Kg
106-47-8	4-Chloroaniline	550		110	220	ug/Kg
87-68-3	Hexachlorobutadiene	2200		110	220	ug/Kg
105-60-2	Caprolactam	2100		110	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2100		100	220	ug/Kg
91-57-6	2-Methylnaphthalene	2200		110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100		200	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2400		93.8	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2200		97.2	220	ug/Kg
92-52-4	1,1-Biphenyl	2300		110	220	ug/Kg
91-58-7	2-Chloronaphthalene	2200		110	220	ug/Kg
88-74-4	2-Nitroaniline	2400		120	220	ug/Kg
131-11-3	Dimethylphthalate	2400		110	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139977.D	1	10/14/24 10:40	10/23/24 21:20	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2300		110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	2300		110	220	ug/Kg
99-09-2	3-Nitroaniline	1300		120	220	ug/Kg
83-32-9	Acenaphthene	2400		110	220	ug/Kg
51-28-5	2,4-Dinitrophenol	2400		320	430	ug/Kg
100-02-7	4-Nitrophenol	4100	E	150	430	ug/Kg
132-64-9	Dibenzofuran	2200		110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	2400		110	220	ug/Kg
84-66-2	Diethylphthalate	2200		110	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2200		110	220	ug/Kg
86-73-7	Fluorene	2100		110	220	ug/Kg
100-01-6	4-Nitroaniline	1900		140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		150	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2600		110	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2600		100	220	ug/Kg
118-74-1	Hexachlorobenzene	2400		110	220	ug/Kg
1912-24-9	Atrazine	2900		120	220	ug/Kg
87-86-5	Pentachlorophenol	4400	E	100	430	ug/Kg
85-01-8	Phenanthrene	2600		110	220	ug/Kg
120-12-7	Anthracene	2500		110	220	ug/Kg
86-74-8	Carbazole	2200		110	220	ug/Kg
84-74-2	Di-n-butylphthalate	2500		110	220	ug/Kg
206-44-0	Fluoranthene	2400		110	220	ug/Kg
129-00-0	Pyrene	1800		110	220	ug/Kg
85-68-7	Butylbenzylphthalate	2400		130	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		130	430	ug/Kg
56-55-3	Benzo(a)anthracene	2400		110	220	ug/Kg
218-01-9	Chrysene	2400		100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	3000		120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	3100		140	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	2600		110	220	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139977.D	1	10/14/24 10:40	10/23/24 21:20	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2400		110	220	ug/Kg
50-32-8	Benzo(a)pyrene	2500		120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		110	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		110	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2400		110	220	ug/Kg
123-91-1	1,4-Dioxane	2100		140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		98.1	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	115		30 (18) - 130 (112)	76%	SPK: 150
13127-88-3	Phenol-d6	111		30 (15) - 130 (107)	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.2		30 (18) - 130 (107)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.7		30 (20) - 130 (109)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	114		30 (10) - 130 (116)	76%	SPK: 150
1718-51-0	Terphenyl-d14	62.7		30 (10) - 130 (105)	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	145000	6.893			
1146-65-2	Naphthalene-d8	535000	8.175			
15067-26-2	Acenaphthene-d10	264000	9.928			
1517-22-2	Phenanthrene-d10	377000	11.416			
1719-03-5	Chrysene-d12	298000	14.057			
1520-96-3	Perylene-d12	304000	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139978.D	1	10/14/24 10:40	10/23/24 21:49	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	830		240	430	ug/Kg
108-95-2	Phenol	2200		110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2200		110	220	ug/Kg
95-57-8	2-Chlorophenol	2300		110	220	ug/Kg
95-48-7	2-Methylphenol	2200		110	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2100		120	220	ug/Kg
98-86-2	Acetophenone	2200		110	220	ug/Kg
65794-96-9	3+4-Methylphenols	2100		100	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		52.9	100	ug/Kg
67-72-1	Hexachloroethane	2200		110	220	ug/Kg
98-95-3	Nitrobenzene	2100		120	220	ug/Kg
78-59-1	Isophorone	2200		110	220	ug/Kg
88-75-5	2-Nitrophenol	2700		120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	2600		120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2200		110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		99.1	220	ug/Kg
91-20-3	Naphthalene	2200		110	220	ug/Kg
106-47-8	4-Chloroaniline	590		110	220	ug/Kg
87-68-3	Hexachlorobutadiene	2200		110	220	ug/Kg
105-60-2	Caprolactam	2100		110	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2100		100	220	ug/Kg
91-57-6	2-Methylnaphthalene	2200		110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3400		200	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2400		93.7	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2200		97.1	220	ug/Kg
92-52-4	1,1-Biphenyl	2300		110	220	ug/Kg
91-58-7	2-Chloronaphthalene	2200		110	220	ug/Kg
88-74-4	2-Nitroaniline	2400		120	220	ug/Kg
131-11-3	Dimethylphthalate	2300		110	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139978.D	1	10/14/24 10:40	10/23/24 21:49	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2300		110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	2300		110	220	ug/Kg
99-09-2	3-Nitroaniline	1300		120	220	ug/Kg
83-32-9	Acenaphthene	2400		110	220	ug/Kg
51-28-5	2,4-Dinitrophenol	3000		320	430	ug/Kg
100-02-7	4-Nitrophenol	4200	E	150	430	ug/Kg
132-64-9	Dibenzofuran	2200		110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	2400		110	220	ug/Kg
84-66-2	Diethylphthalate	2200		110	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		110	220	ug/Kg
86-73-7	Fluorene	2100		110	220	ug/Kg
100-01-6	4-Nitroaniline	1900		140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2200		150	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2500		110	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2500		100	220	ug/Kg
118-74-1	Hexachlorobenzene	2300		110	220	ug/Kg
1912-24-9	Atrazine	2900		120	220	ug/Kg
87-86-5	Pentachlorophenol	4400	E	100	430	ug/Kg
85-01-8	Phenanthrene	2500		110	220	ug/Kg
120-12-7	Anthracene	2400		110	220	ug/Kg
86-74-8	Carbazole	2200		110	220	ug/Kg
84-74-2	Di-n-butylphthalate	2500		110	220	ug/Kg
206-44-0	Fluoranthene	2400		110	220	ug/Kg
129-00-0	Pyrene	1800		110	220	ug/Kg
85-68-7	Butylbenzylphthalate	2500		130	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1900		130	430	ug/Kg
56-55-3	Benzo(a)anthracene	2300		110	220	ug/Kg
218-01-9	Chrysene	2400		100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	3000		120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	3000		140	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	2700		110	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139978.D	1	10/14/24 10:40	10/23/24 21:49	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2400		110	220	ug/Kg
50-32-8	Benzo(a)pyrene	2500		120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		110	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		110	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2400		110	220	ug/Kg
123-91-1	1,4-Dioxane	2100		140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		98.0	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	116		30 (18) - 130 (112)	77%	SPK: 150
13127-88-3	Phenol-d6	113		30 (15) - 130 (107)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.7		30 (18) - 130 (107)	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.8		30 (20) - 130 (109)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	115		30 (10) - 130 (116)	77%	SPK: 150
1718-51-0	Terphenyl-d14	62.7		30 (10) - 130 (105)	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	145000	6.892			
1146-65-2	Naphthalene-d8	545000	8.175			
15067-26-2	Acenaphthene-d10	275000	9.928			
1517-22-2	Phenanthrene-d10	400000	11.416			
1719-03-5	Chrysene-d12	304000	14.057			
1520-96-3	Perylene-d12	306000	15.533			

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_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

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/21/2024 09:57

Lab File ID: BF139892.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	1.253		-2.0	
Benzaldehyde	0.931	0.814		-12.6	
Phenol-d6	1.655	1.618		-2.2	
Phenol	1.706	1.701		-0.3	20.0
bis(2-Chloroethyl)ether	1.319	1.298		-1.6	
2-Chlorophenol	1.306	1.302		-0.3	
2-Methylphenol	1.114	1.099		-1.3	
2,2-oxybis(1-Chloropropane)	2.248	2.201		-2.1	
Acetophenone	0.490	0.481		-1.8	
3+4-Methylphenols	1.424	1.398		-1.8	
n-Nitroso-di-n-propylamine	1.004	0.965	0.050	-3.9	
Nitrobenzene-d5	0.361	0.370		2.5	
Hexachloroethane	0.534	0.539		0.9	
Nitrobenzene	0.396	0.395		-0.3	
Isophorone	0.685	0.677		-1.2	
2-Nitrophenol	0.149	0.157		5.4	20.0
2,4-Dimethylphenol	0.249	0.243		-2.4	
bis(2-Chloroethoxy)methane	0.415	0.418		0.7	
2,4-Dichlorophenol	0.283	0.286		1.1	20.0
Naphthalene	1.031	1.026		-0.5	
4-Chloroaniline	0.352	0.354		0.6	
Hexachlorobutadiene	0.197	0.202		2.5	20.0
Caprolactam	0.090	0.085		-5.6	
4-Chloro-3-methylphenol	0.314	0.311		-1.0	20.0
2-Methylnaphthalene	0.632	0.627		-0.8	
Hexachlorocyclopentadiene	0.188	0.209	0.050	11.2	
2,4,6-Trichlorophenol	0.382	0.378		-1.0	20.0
2-Fluorobiphenyl	1.210	1.182		-2.3	
2,4,5-Trichlorophenol	0.394	0.415		5.3	
1,1-Biphenyl	1.392	1.400		0.6	
2-Chloronaphthalene	1.121	1.125		0.4	
2-Nitroaniline	0.343	0.354		3.2	
Dimethylphthalate	1.246	1.237		-0.7	
Acenaphthylene	1.621	1.614		-0.4	
2,6-Dinitrotoluene	0.270	0.275		1.9	
3-Nitroaniline	0.278	0.282		1.4	
Acenaphthene	1.049	1.050		0.1	20.0
2,4-Dinitrophenol	0.093	0.104	0.050	11.8	
4-Nitrophenol	0.214	0.218	0.050	1.9	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/21/2024 09:57

Lab File ID: BF139892.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	1.506		0.1	
2,4-Dinitrotoluene	0.332	0.343		3.3	
Diethylphthalate	1.223	1.206		-1.4	
4-Chlorophenyl-phenylether	0.579	0.575		-0.7	
Fluorene	1.146	1.118		-2.4	
4-Nitroaniline	0.263	0.269		2.3	
4,6-Dinitro-2-methylphenol	0.082	0.091		11.0	
n-Nitrosodiphenylamine	0.599	0.601		0.3	20.0
2,4,6-Tribromophenol	0.187	0.195		4.3	
4-Bromophenyl-phenylether	0.206	0.215		4.4	
Hexachlorobenzene	0.232	0.240		3.4	
Atrazine	0.162	0.162		0.0	
Pentachlorophenol	0.141	0.155		9.9	20.0
Phenanthrene	0.945	0.931		-1.5	
Anthracene	0.922	0.920		-0.2	
Carbazole	0.857	0.827		-3.5	
Di-n-butylphthalate	0.990	0.946		-4.4	
Fluoranthene	0.955	0.907		-5.0	20.0
Pyrene	1.751	1.911		9.1	
Terphenyl-d14	1.227	1.303		6.2	
Butylbenzylphthalate	0.525	0.537		2.3	
3,3-Dichlorobenzidine	0.380	0.390		2.6	
Benzo(a)anthracene	1.302	1.326		1.8	
Chrysene	1.194	1.209		1.3	
Bis(2-ethylhexyl)phthalate	0.589	0.666		13.1	
Di-n-octyl phthalate	1.071	1.261		17.7	20.0
Benzo(b)fluoranthene	1.218	1.234		1.3	
Benzo(k)fluoranthene	1.051	0.938		-10.8	
Benzo(a)pyrene	1.002	1.009		0.7	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.495		16.2	
Dibenzo(a,h)anthracene	1.073	1.250		16.5	
Benzo(g,h,i)perylene	1.072	1.278		19.2	
1,2,4,5-Tetrachlorobenzene	0.540	0.552		2.2	
1,4-Dioxane	0.596	0.584		-2.0	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.313		1.3	

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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/22/2024 14:28

Lab File ID: BF139927.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	1.238		-3.1	
Benzaldehyde	0.931	0.957		2.8	
Phenol-d6	1.655	1.570		-5.1	
Phenol	1.706	1.639		-3.9	20.0
bis(2-Chloroethyl)ether	1.319	1.272		-3.6	
2-Chlorophenol	1.306	1.287		-1.5	
2-Methylphenol	1.114	1.070		-4.0	
2,2-oxybis(1-Chloropropane)	2.248	2.090		-7.0	
Acetophenone	0.490	0.474		-3.3	
3+4-Methylphenols	1.424	1.367		-4.0	
n-Nitroso-di-n-propylamine	1.004	0.934	0.050	-7.0	
Nitrobenzene-d5	0.361	0.377		4.4	
Hexachloroethane	0.534	0.531		-0.6	
Nitrobenzene	0.396	0.401		1.3	
Isophorone	0.685	0.658		-3.9	
2-Nitrophenol	0.149	0.178		19.5	20.0
2,4-Dimethylphenol	0.249	0.243		-2.4	
bis(2-Chloroethoxy)methane	0.415	0.406		-2.2	
2,4-Dichlorophenol	0.283	0.285		0.7	20.0
Naphthalene	1.031	1.017		-1.4	
4-Chloroaniline	0.352	0.346		-1.7	
Hexachlorobutadiene	0.197	0.204		3.6	20.0
Caprolactam	0.090	0.086		-4.4	
4-Chloro-3-methylphenol	0.314	0.306		-2.5	20.0
2-Methylnaphthalene	0.632	0.625		-1.1	
Hexachlorocyclopentadiene	0.188	0.217	0.050	15.4	
2,4,6-Trichlorophenol	0.382	0.396		3.7	20.0
2-Fluorobiphenyl	1.210	1.202		-0.7	
2,4,5-Trichlorophenol	0.394	0.423		7.4	
1,1-Biphenyl	1.392	1.411		1.4	
2-Chloronaphthalene	1.121	1.140		1.7	
2-Nitroaniline	0.343	0.368		7.3	
Dimethylphthalate	1.246	1.230		-1.3	
Acenaphthylene	1.621	1.627		0.4	
2,6-Dinitrotoluene	0.270	0.289		7.0	
3-Nitroaniline	0.278	0.287		3.2	
Acenaphthene	1.049	1.066		1.6	20.0
2,4-Dinitrophenol	0.093	0.132	0.050	41.9	
4-Nitrophenol	0.214	0.223	0.050	4.2	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/22/2024 14:28

Lab File ID: BF139927.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	1.499		-0.4	
2,4-Dinitrotoluene	0.332	0.373		12.3	
Diethylphthalate	1.223	1.185		-3.1	
4-Chlorophenyl-phenylether	0.579	0.580		0.2	
Fluorene	1.146	1.117		-2.5	
4-Nitroaniline	0.263	0.268		1.9	
4,6-Dinitro-2-methylphenol	0.082	0.112		36.6	
n-Nitrosodiphenylamine	0.599	0.598		-0.2	20.0
2,4,6-Tribromophenol	0.187	0.201		7.5	
4-Bromophenyl-phenylether	0.206	0.216		4.9	
Hexachlorobenzene	0.232	0.239		3.0	
Atrazine	0.162	0.155		-4.3	
Pentachlorophenol	0.141	0.160		13.5	20.0
Phenanthrene	0.945	0.925		-2.1	
Anthracene	0.922	0.916		-0.7	
Carbazole	0.857	0.810		-5.5	
Di-n-butylphthalate	0.990	0.919		-7.2	
Fluoranthene	0.955	0.875		-8.5	20.0
Pyrene	1.751	1.852		5.8	
Terphenyl-d14	1.227	1.269		3.4	
Butylbenzylphthalate	0.525	0.539		2.7	
3,3-Dichlorobenzidine	0.380	0.452		18.9	
Benzo(a)anthracene	1.302	1.303		0.1	
Chrysene	1.194	1.167		-2.3	
Bis(2-ethylhexyl)phthalate	0.589	0.693		17.7	
Di-n-octyl phthalate	1.071	1.312		22.5	20.0
Benzo(b)fluoranthene	1.218	1.229		0.9	
Benzo(k)fluoranthene	1.051	0.899		-14.5	
Benzo(a)pyrene	1.002	1.008		0.6	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.437		11.7	
Dibenzo(a,h)anthracene	1.073	1.186		10.5	
Benzo(g,h,i)perylene	1.072	1.213		13.2	
1,2,4,5-Tetrachlorobenzene	0.540	0.557		3.1	
1,4-Dioxane	0.596	0.561		-5.9	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.321		3.9	

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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 09:20

Lab File ID: BF139952.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	1.208		-5.5	
Benzaldehyde	0.931	0.814		-12.6	
Phenol-d6	1.655	1.535		-7.3	
Phenol	1.706	1.607		-5.8	20.0
bis(2-Chloroethyl)ether	1.319	1.234		-6.4	
2-Chlorophenol	1.306	1.268		-2.9	
2-Methylphenol	1.114	1.068		-4.1	
2,2-oxybis(1-Chloropropane)	2.248	2.003		-10.9	
Acetophenone	0.490	0.464		-5.3	
3+4-Methylphenols	1.424	1.338		-6.0	
n-Nitroso-di-n-propylamine	1.004	0.910	0.050	-9.4	
Nitrobenzene-d5	0.361	0.367		1.7	
Hexachloroethane	0.534	0.522		-2.2	
Nitrobenzene	0.396	0.388		-2.0	
Isophorone	0.685	0.648		-5.4	
2-Nitrophenol	0.149	0.174		16.8	20.0
2,4-Dimethylphenol	0.249	0.236		-5.2	
bis(2-Chloroethoxy)methane	0.415	0.398		-4.1	
2,4-Dichlorophenol	0.283	0.280		-1.1	20.0
Naphthalene	1.031	1.008		-2.2	
4-Chloroaniline	0.352	0.342		-2.8	
Hexachlorobutadiene	0.197	0.200		1.5	20.0
Caprolactam	0.090	0.090		0.0	
4-Chloro-3-methylphenol	0.314	0.305		-2.9	20.0
2-Methylnaphthalene	0.632	0.620		-1.9	
Hexachlorocyclopentadiene	0.188	0.204	0.050	8.5	
2,4,6-Trichlorophenol	0.382	0.403		5.5	20.0
2-Fluorobiphenyl	1.210	1.162		-4.0	
2,4,5-Trichlorophenol	0.394	0.393		-0.3	
1,1-Biphenyl	1.392	1.355		-2.7	
2-Chloronaphthalene	1.121	1.098		-2.1	
2-Nitroaniline	0.343	0.363		5.8	
Dimethylphthalate	1.246	1.215		-2.5	
Acenaphthylene	1.621	1.589		-2.0	
2,6-Dinitrotoluene	0.270	0.288		6.7	
3-Nitroaniline	0.278	0.293		5.4	
Acenaphthene	1.049	1.047		-0.2	20.0
2,4-Dinitrophenol	0.093	0.140	0.050	50.5	
4-Nitrophenol	0.214	0.233	0.050	8.9	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 09:20

Lab File ID: BF139952.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	1.468		-2.5	
2,4-Dinitrotoluene	0.332	0.372		12.0	
Diethylphthalate	1.223	1.192		-2.5	
4-Chlorophenyl-phenylether	0.579	0.584		0.9	
Fluorene	1.146	1.120		-2.3	
4-Nitroaniline	0.263	0.278		5.7	
4,6-Dinitro-2-methylphenol	0.082	0.113		37.8	
n-Nitrosodiphenylamine	0.599	0.579		-3.3	20.0
2,4,6-Tribromophenol	0.187	0.206		10.2	
4-Bromophenyl-phenylether	0.206	0.211		2.4	
Hexachlorobenzene	0.232	0.233		0.4	
Atrazine	0.162	0.165		1.9	
Pentachlorophenol	0.141	0.161		14.2	20.0
Phenanthrene	0.945	0.906		-4.1	
Anthracene	0.922	0.896		-2.8	
Carbazole	0.857	0.815		-4.9	
Di-n-butylphthalate	0.990	0.951		-3.9	
Fluoranthene	0.955	0.921		-3.6	20.0
Pyrene	1.751	1.747		-0.2	
Terphenyl-d14	1.227	1.236		0.7	
Butylbenzylphthalate	0.525	0.536		2.1	
3,3-Dichlorobenzidine	0.380	0.427		12.4	
Benzo(a)anthracene	1.302	1.273		-2.2	
Chrysene	1.194	1.169		-2.1	
Bis(2-ethylhexyl)phthalate	0.589	0.652		10.7	
Di-n-octyl phthalate	1.071	1.163		8.6	20.0
Benzo(b)fluoranthene	1.218	1.240		1.8	
Benzo(k)fluoranthene	1.051	0.912		-13.2	
Benzo(a)pyrene	1.002	0.988		-1.4	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.393		8.2	
Dibenzo(a,h)anthracene	1.073	1.155		7.6	
Benzo(g,h,i)perylene	1.072	1.184		10.4	
1,2,4,5-Tetrachlorobenzene	0.540	0.541		0.2	
1,4-Dioxane	0.596	0.552		-7.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.318		2.9	

All other compounds must meet a minimum RRF of 0.010.

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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 15:30

Lab File ID: BF139965.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	1.233		-3.5	
Benzaldehyde	0.931	0.939		0.9	
Phenol-d6	1.655	1.579		-4.6	
Phenol	1.706	1.663		-2.5	20.0
bis(2-Chloroethyl)ether	1.319	1.273		-3.5	
2-Chlorophenol	1.306	1.291		-1.1	
2-Methylphenol	1.114	1.099		-1.3	
2,2-oxybis(1-Chloropropane)	2.248	2.018		-10.2	
Acetophenone	0.490	0.467		-4.7	
3+4-Methylphenols	1.424	1.388		-2.5	
n-Nitroso-di-n-propylamine	1.004	0.918	0.050	-8.6	
Nitrobenzene-d5	0.361	0.370		2.5	
Hexachloroethane	0.534	0.530		-0.7	
Nitrobenzene	0.396	0.391		-1.3	
Isophorone	0.685	0.651		-5.0	
2-Nitrophenol	0.149	0.175		17.5	20.0
2,4-Dimethylphenol	0.249	0.239		-4.0	
bis(2-Chloroethoxy)methane	0.415	0.397		-4.3	
2,4-Dichlorophenol	0.283	0.283		0.0	20.0
Naphthalene	1.031	1.011		-1.9	
4-Chloroaniline	0.352	0.340		-3.4	
Hexachlorobutadiene	0.197	0.199		1.0	20.0
Caprolactam	0.090	0.092		2.2	
4-Chloro-3-methylphenol	0.314	0.308		-1.9	20.0
2-Methylnaphthalene	0.632	0.618		-2.2	
Hexachlorocyclopentadiene	0.188	0.193	0.050	2.7	
2,4,6-Trichlorophenol	0.382	0.381		-0.3	20.0
2-Fluorobiphenyl	1.210	1.169		-3.4	
2,4,5-Trichlorophenol	0.394	0.415		5.3	
1,1-Biphenyl	1.392	1.351		-2.9	
2-Chloronaphthalene	1.121	1.097		-2.1	
2-Nitroaniline	0.343	0.369		7.6	
Dimethylphthalate	1.246	1.226		-1.6	
Acenaphthylene	1.621	1.588		-2.0	
2,6-Dinitrotoluene	0.270	0.289		7.0	
3-Nitroaniline	0.278	0.292		5.0	
Acenaphthene	1.049	1.051		0.2	20.0
2,4-Dinitrophenol	0.093	0.139	0.050	49.5	
4-Nitrophenol	0.214	0.228	0.050	6.5	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 15:30

Lab File ID: BF139965.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	1.458		-3.1	
2,4-Dinitrotoluene	0.332	0.379		14.2	
Diethylphthalate	1.223	1.211		-1.0	
4-Chlorophenyl-phenylether	0.579	0.574		-0.9	
Fluorene	1.146	1.118		-2.4	
4-Nitroaniline	0.263	0.280		6.5	
4,6-Dinitro-2-methylphenol	0.082	0.112		36.6	
n-Nitrosodiphenylamine	0.599	0.583		-2.7	20.0
2,4,6-Tribromophenol	0.187	0.204		9.1	
4-Bromophenyl-phenylether	0.206	0.211		2.4	
Hexachlorobenzene	0.232	0.234		0.9	
Atrazine	0.162	0.166		2.5	
Pentachlorophenol	0.141	0.157		11.3	20.0
Phenanthrene	0.945	0.920		-2.6	
Anthracene	0.922	0.894		-3.0	
Carbazole	0.857	0.815		-4.9	
Di-n-butylphthalate	0.990	0.956		-3.4	
Fluoranthene	0.955	0.893		-6.5	20.0
Pyrene	1.751	1.731		-1.1	
Terphenyl-d14	1.227	1.227		0.0	
Butylbenzylphthalate	0.525	0.540		2.9	
3,3-Dichlorobenzidine	0.380	0.447		17.6	
Benzo(a)anthracene	1.302	1.293		-0.7	
Chrysene	1.194	1.157		-3.1	
Bis(2-ethylhexyl)phthalate	0.589	0.666		13.1	
Di-n-octyl phthalate	1.071	1.198		11.9	20.0
Benzo(b)fluoranthene	1.218	1.083		-11.1	
Benzo(k)fluoranthene	1.051	1.048		-0.3	
Benzo(a)pyrene	1.002	0.978		-2.4	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.280		-0.5	
Dibenzo(a,h)anthracene	1.073	1.060		-1.2	
Benzo(g,h,i)perylene	1.072	1.053		-1.8	
1,2,4,5-Tetrachlorobenzene	0.540	0.540		0.0	
1,4-Dioxane	0.596	0.581		-2.5	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.324		4.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 24 01:13:25 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

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	147308	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	535162	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	259896	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	369608	20.000	ng		0.00
76) Chrysene-d12	14.051	240	318909	20.000	ng		0.00
86) Perylene-d12	15.533	264	311630	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	823186	87.483	ng		0.00
7) Phenol-d6	6.504	99	1014654	83.256	ng		0.00
23) Nitrobenzene-d5	7.445	82	597976	61.929	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	184112	75.736	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	936691	59.565	ng		0.00
79) Terphenyl-d14	12.998	244	794759	40.609	ng		0.00
Target Compounds							Qvalue
31) Naphthalene	8.192	128	738416	26.754	ng		100
37) 2-Methylnaphthalene	8.881	142	392241	23.205	ng		99
38) 1-Methylnaphthalene	8.981	142	361633	21.806	ng		99
46) 1,1'-Biphenyl	9.345	154	54794	3.029	ng		97
49) Acenaphthylene	9.787	152	69778	3.312	ng	#	86
52) Acenaphthene	9.957	154	346417	25.420	ng		97
58) Fluorene	10.475	166	220529	14.808	ng		96
71) Phenanthrene	11.439	178	822142	47.091	ng		100
72) Anthracene	11.486	178	324395	19.044	ng		99
75) Fluoranthene	12.627	202	443928	25.153	ng		99
78) Pyrene	12.857	202	631843	22.634	ng		99
81) Benzo(a)anthracene	14.039	228	342920m	16.518	ng		
83) Chrysene	14.074	228	323494	16.995	ng	#	95
87) Indeno(1,2,3-cd)pyrene	17.015	276	60334	3.009	ng		96
88) Benzo(b)fluoranthene	15.098	252	208966m	11.008	ng		
89) Benzo(k)fluoranthene	15.110	252	94638m	5.781	ng		
90) Benzo(a)pyrene	15.468	252	225515	14.438	ng		98
92) Benzo(g,h,i)perylene	17.468	276	61435	3.678	ng		99

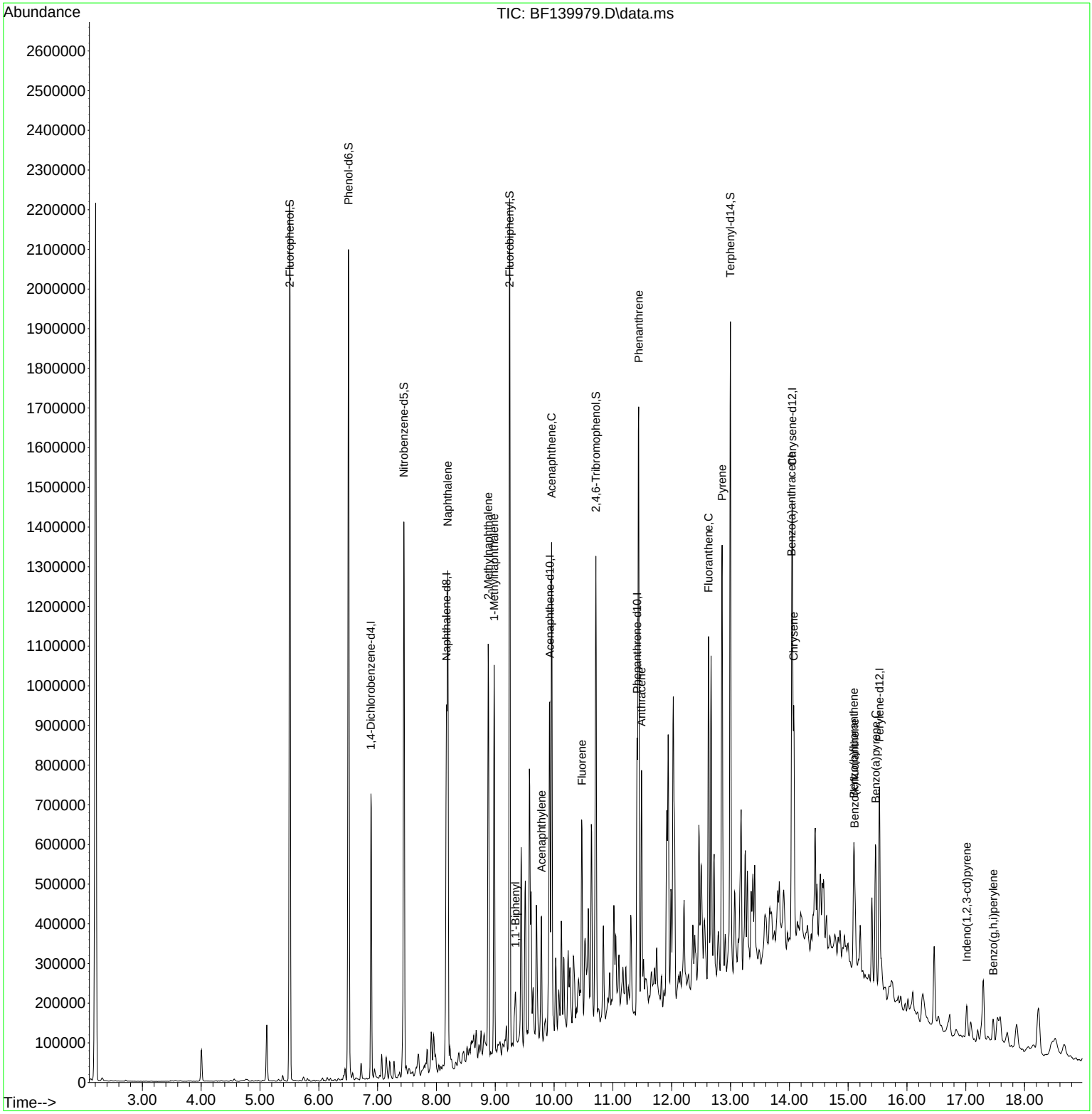
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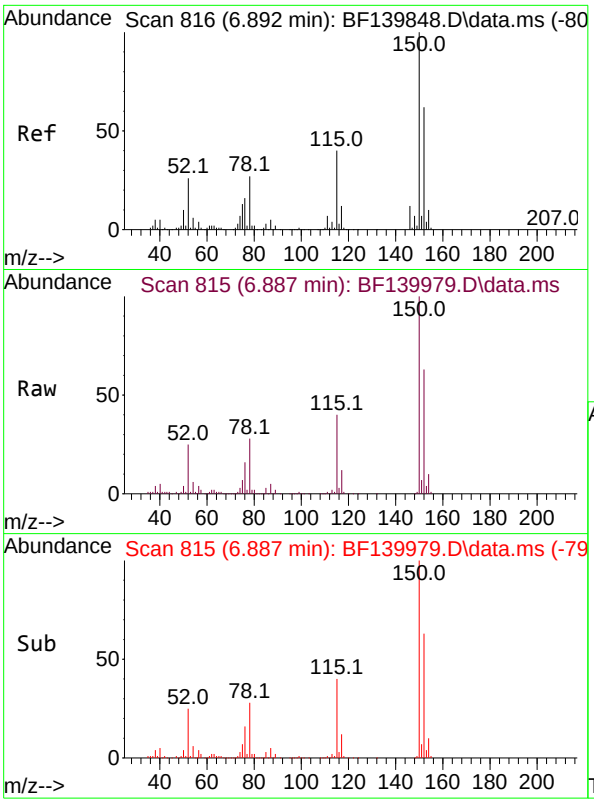
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 24 01:13:25 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

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

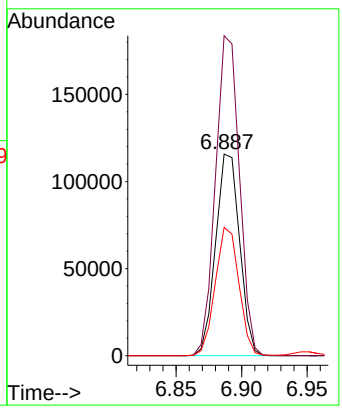




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:152 Resp: 14730

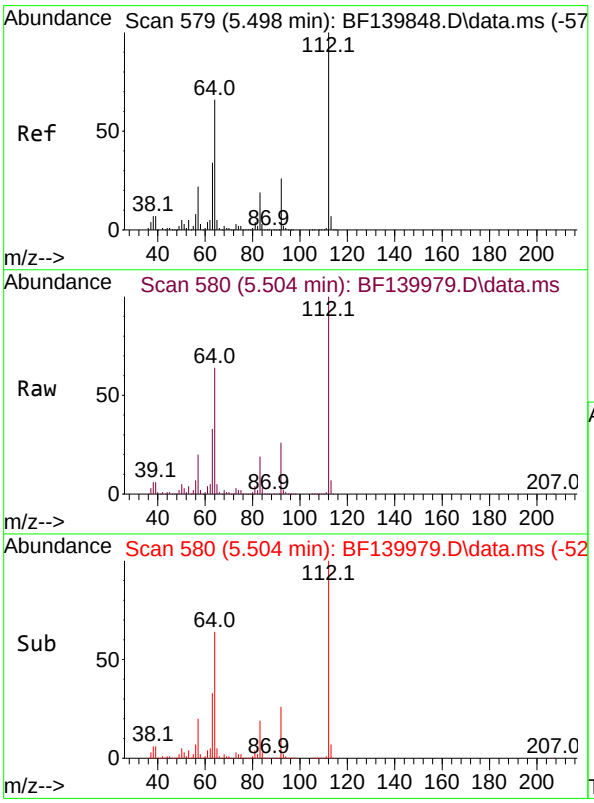
Ion	Ratio	Lower	Upper
152	100		
150	158.8	130.2	195.2
115	63.7	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Manual Integrations
APPROVED

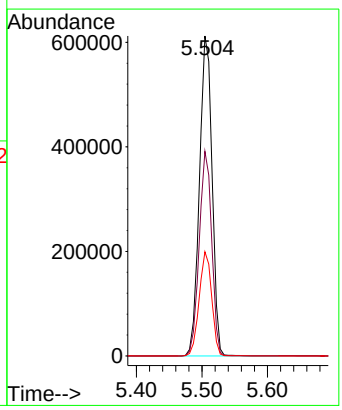
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

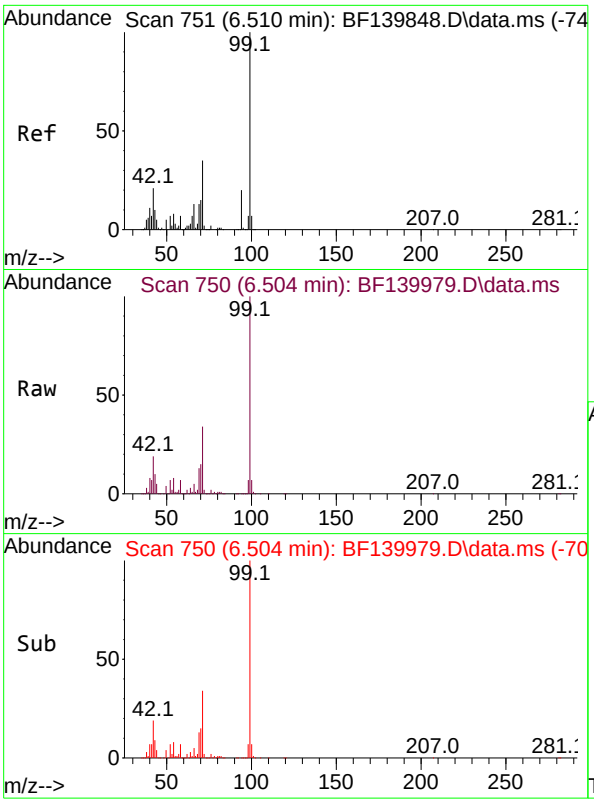


#5
2-Fluorophenol
Concen: 87.483 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:112 Resp: 823186

Ion	Ratio	Lower	Upper
112	100		
64	63.9	53.0	79.6
63	32.6	27.0	40.4

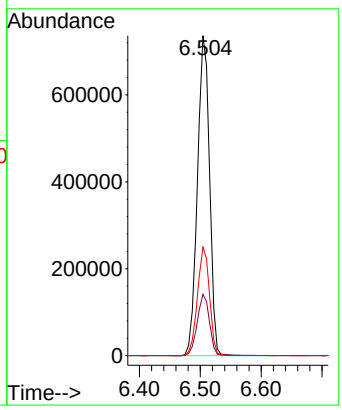




#7
Phenol-d6
Concen: 83.256 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion: 99 Resp: 101465

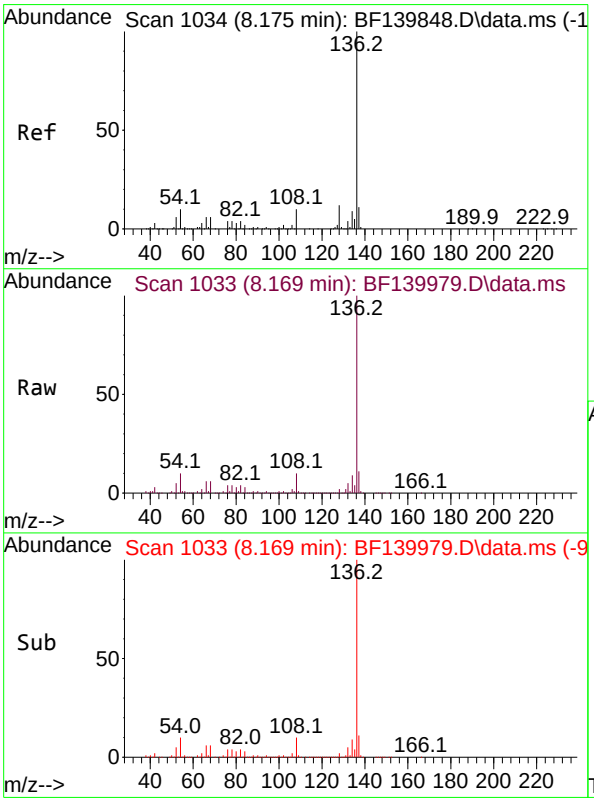
Ion	Ratio	Lower	Upper
99	100		
42	19.2	16.7	25.1
71	33.9	27.7	41.5



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Manual Integrations APPROVED

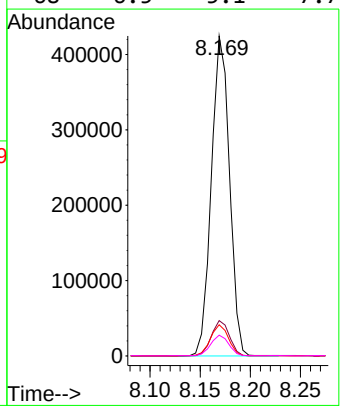
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

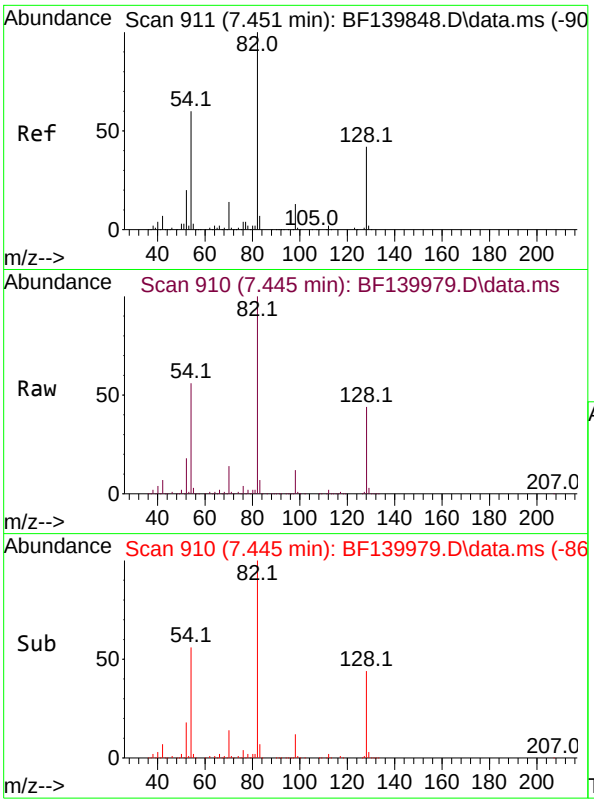


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:136 Resp: 535162

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	9.8	8.4	12.6
68	6.5	5.1	7.7

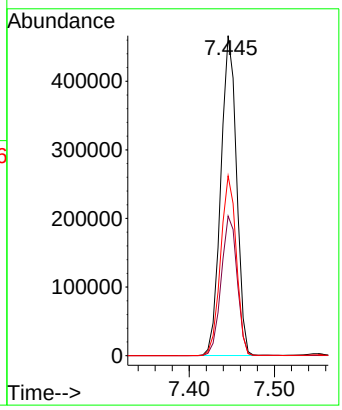




#23
Nitrobenzene-d5
Concen: 61.929 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

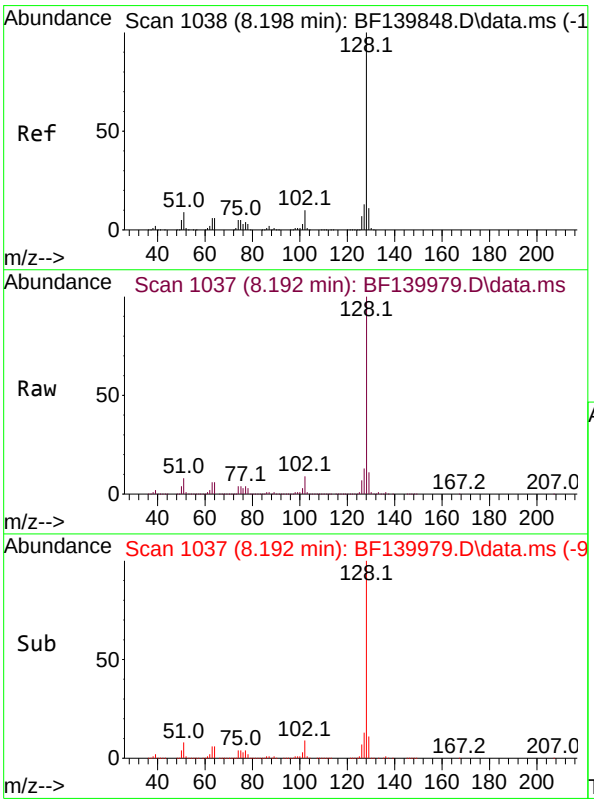
Tgt Ion: 82 Resp: 59797

Ion	Ratio	Lower	Upper
82	100		
128	43.6	33.4	50.0
54	56.2	47.8	71.8



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

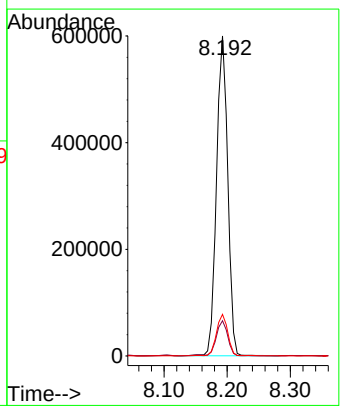
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

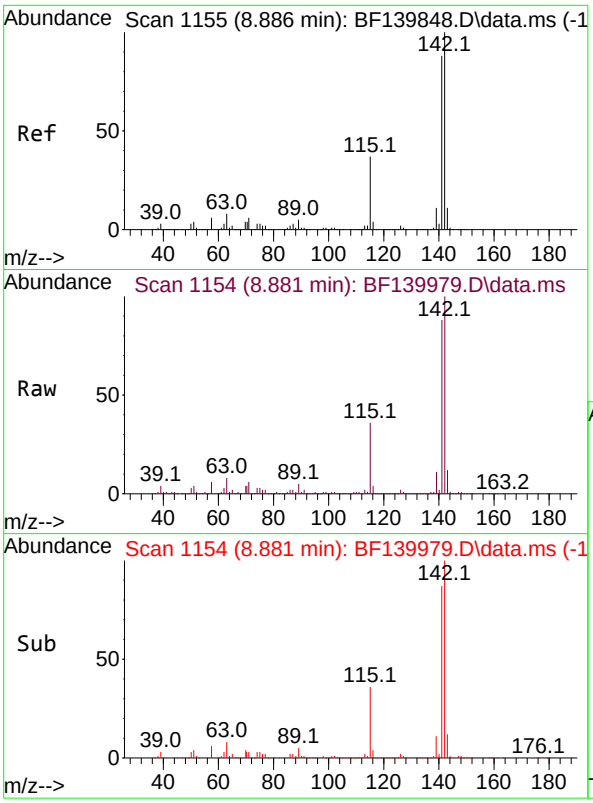


#31
Naphthalene
Concen: 26.754 ng
RT: 8.192 min Scan# 1037
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:128 Resp: 738416

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.0	10.6	16.0

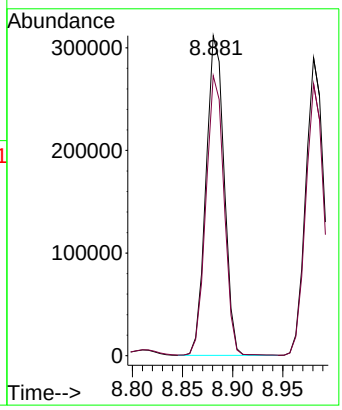




#37
2-Methylnaphthalene
Concen: 23.205 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:142 Resp: 39224

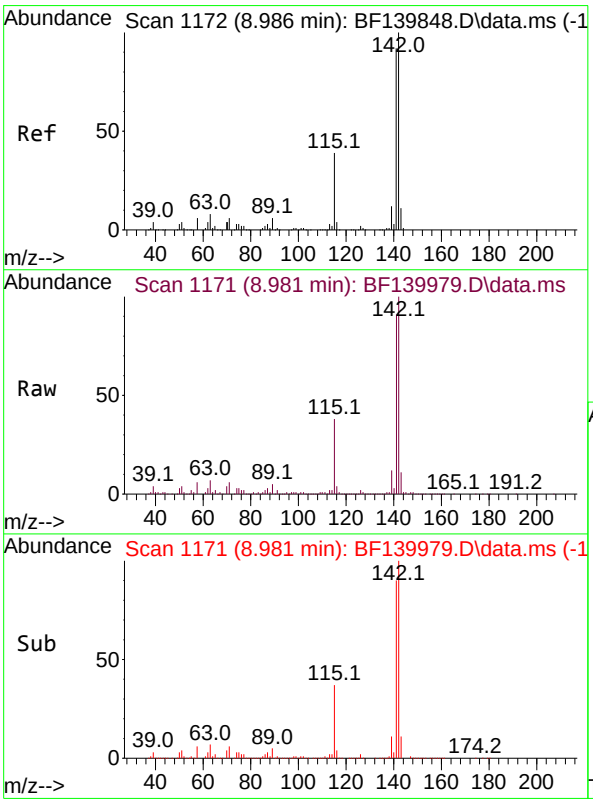
Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Manual Integrations
APPROVED

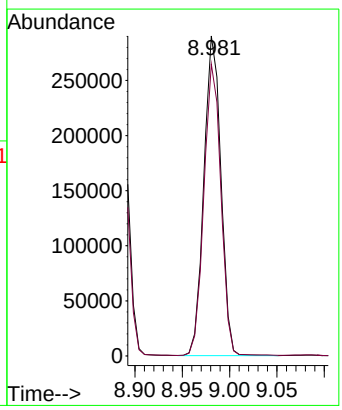
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

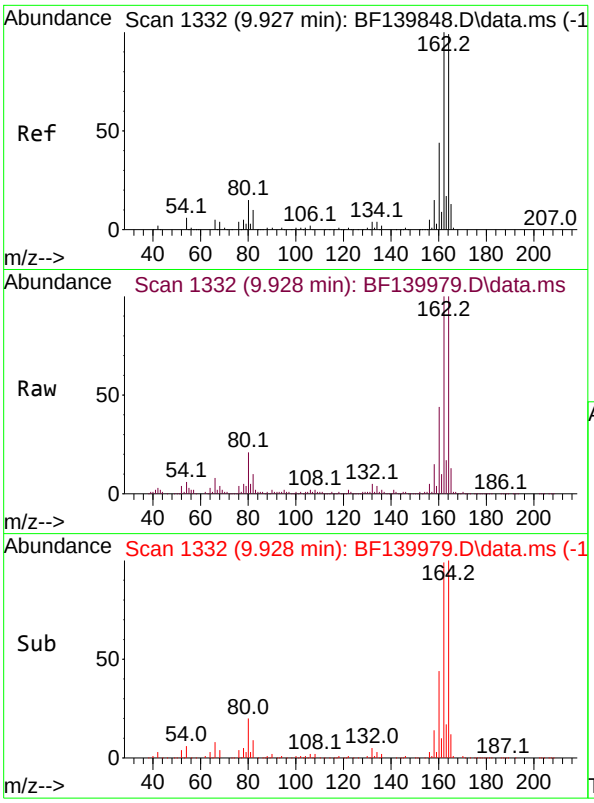


#38
1-Methylnaphthalene
Concen: 21.806 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:142 Resp: 361633

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.5	110.3

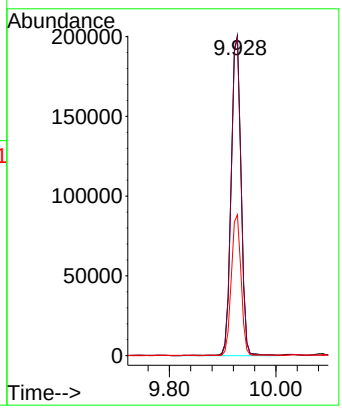




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

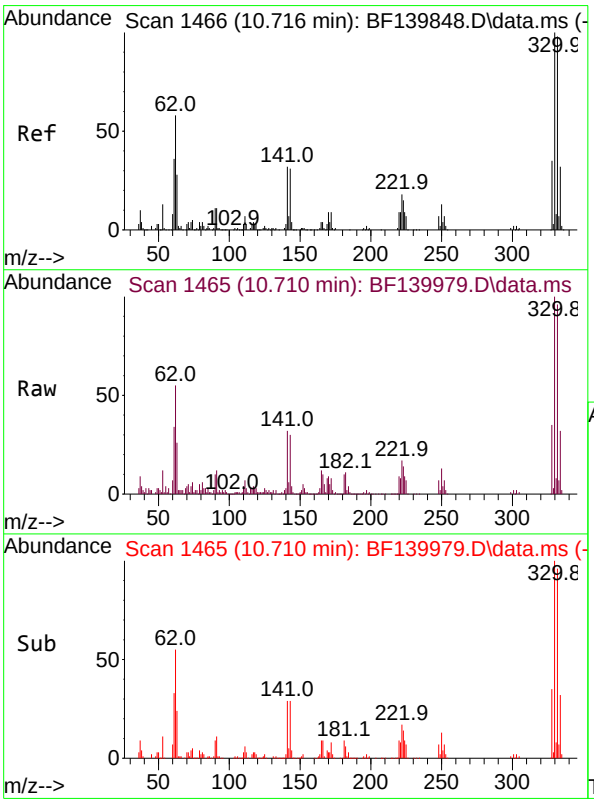
Tgt Ion:164 Resp: 25989

Ion	Ratio	Lower	Upper
164	100		
162	99.5	81.0	121.4
160	44.0	35.4	53.0



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

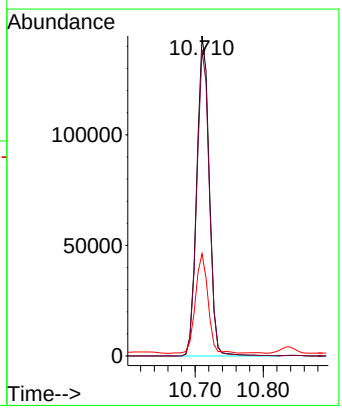
Manual Integrations
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Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

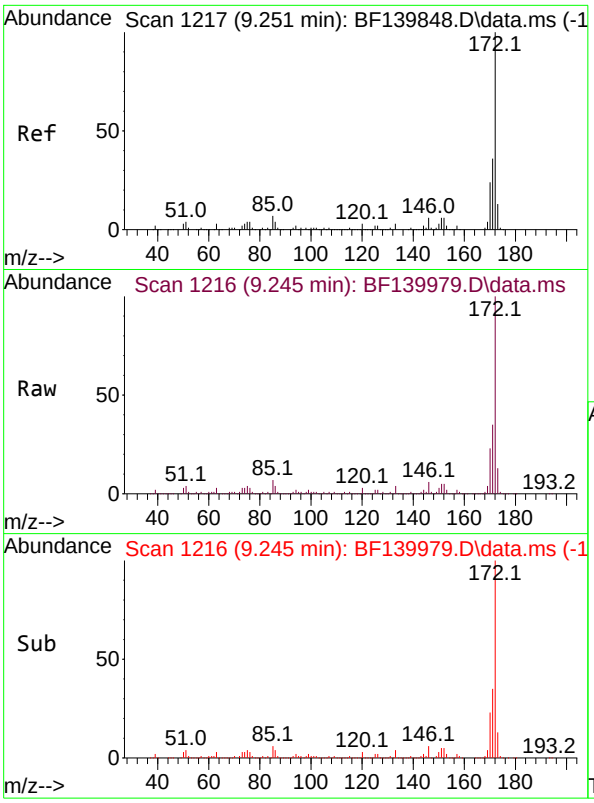


#42
2,4,6-Tribromophenol
Concen: 75.736 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:330 Resp: 184112

Ion	Ratio	Lower	Upper
330	100		
332	96.0	78.1	117.1
141	31.3	26.6	39.8

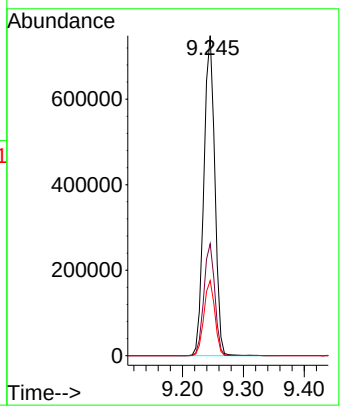




#45
2-Fluorobiphenyl
Concen: 59.565 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

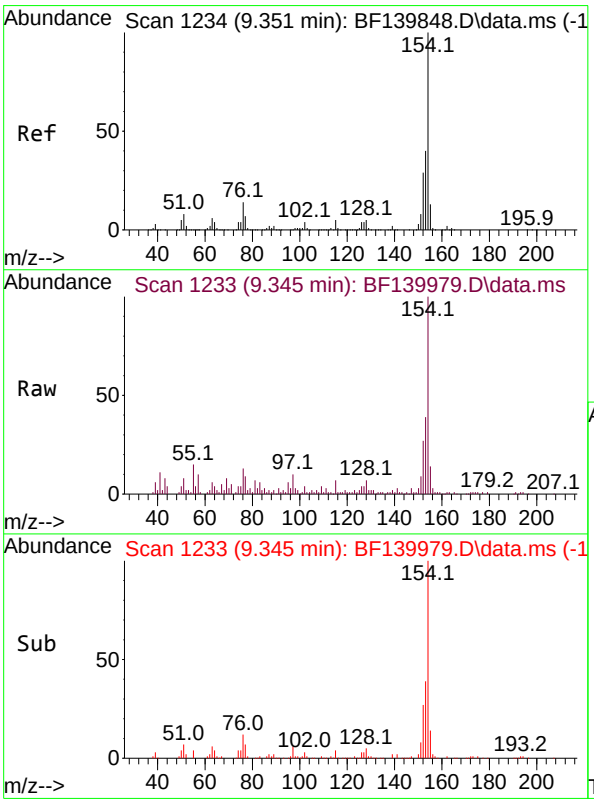
Tgt Ion:172 Resp: 93669

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.6	43.0
170	23.5	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

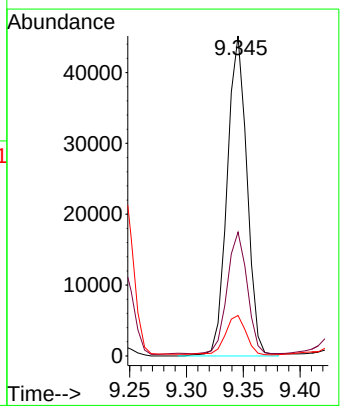
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

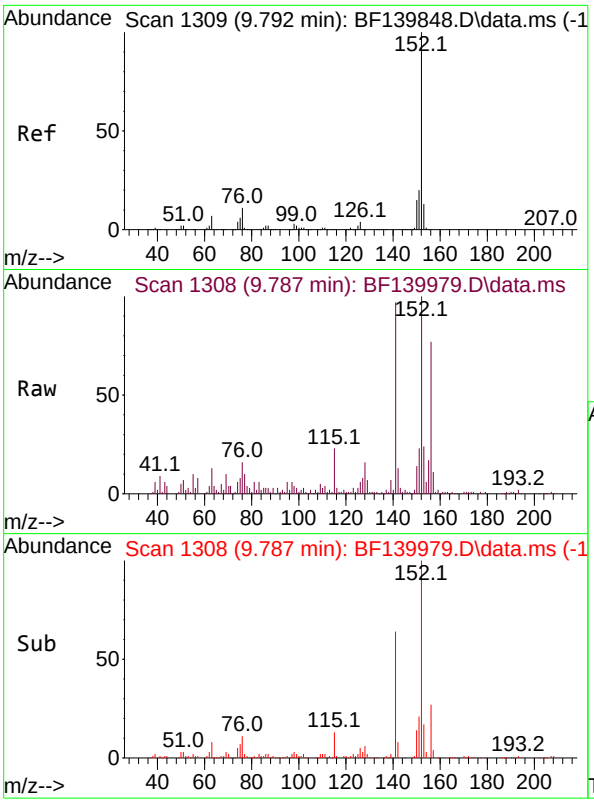


#46
1,1'-Biphenyl
Concen: 3.029 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:154 Resp: 54794

Ion	Ratio	Lower	Upper
154	100		
153	38.7	20.3	60.3
76	12.6	0.0	33.9

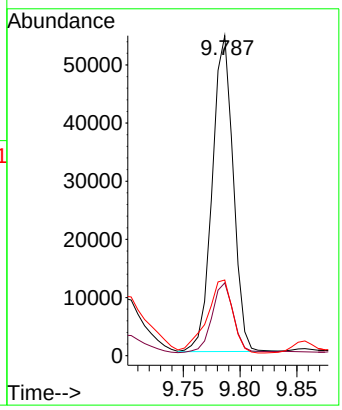




#49
Acenaphthylene
Concen: 3.312 ng
RT: 9.787 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:152 Resp: 6977

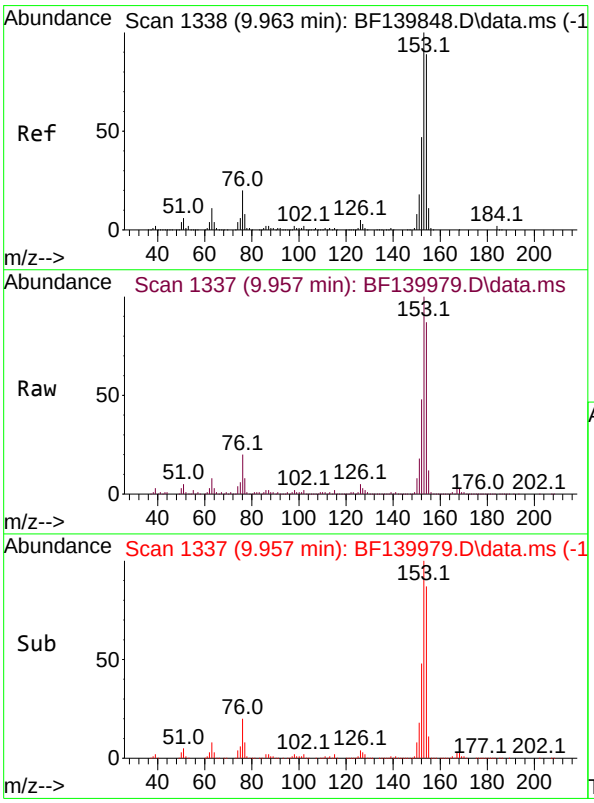
Ion	Ratio	Lower	Upper
152	100		
151	22.7	15.9	23.9
153	23.6	10.7	16.1#



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Manual Integrations APPROVED

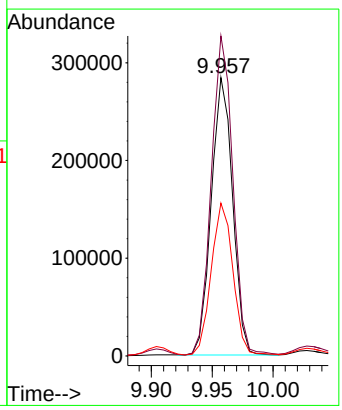
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

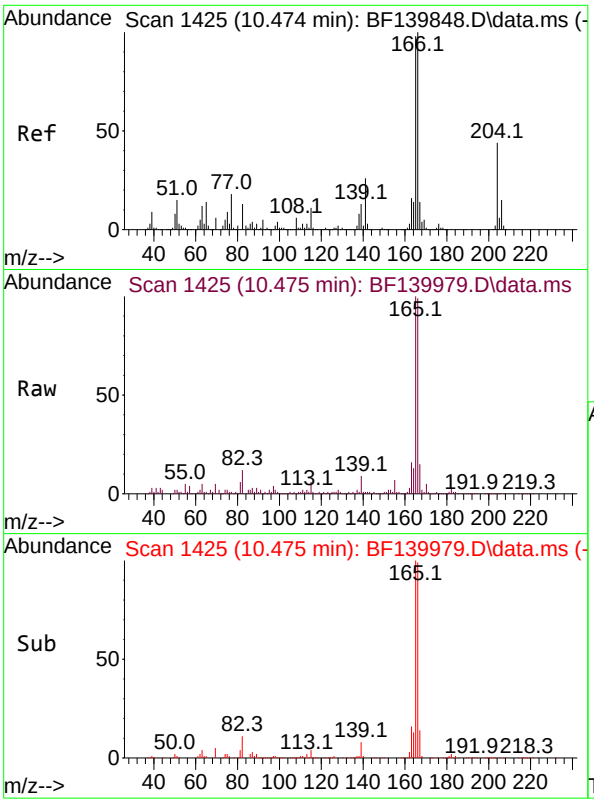


#52
Acenaphthene
Concen: 25.420 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:154 Resp: 346417

Ion	Ratio	Lower	Upper
154	100		
153	114.9	89.8	134.6
152	54.9	42.4	63.6

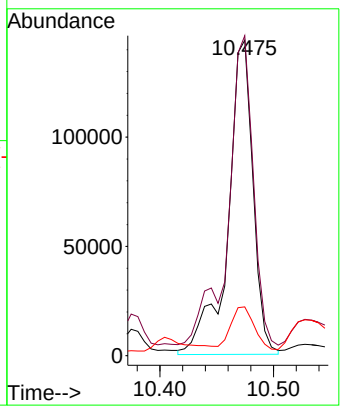




#58
Fluorene
Concen: 14.808 ng
RT: 10.475 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:166 Resp: 22052

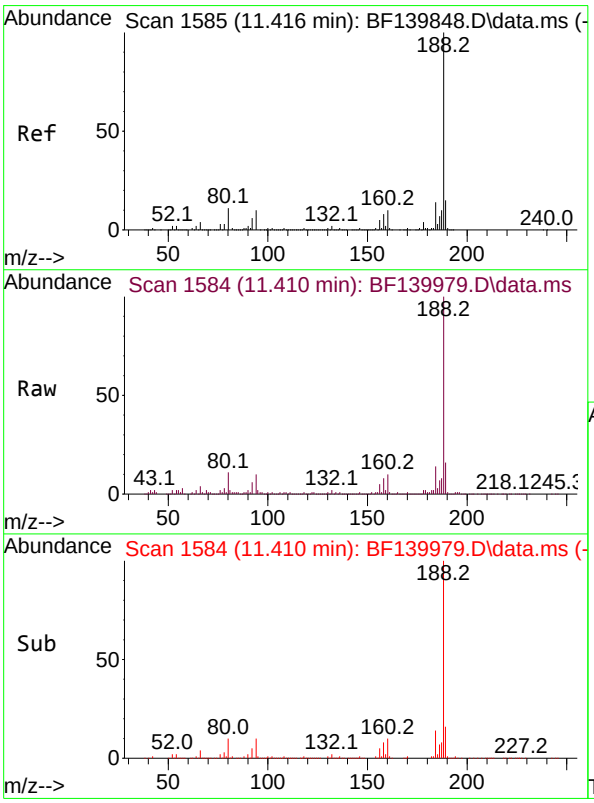
Ion	Ratio	Lower	Upper
166	100		
165	101.4	78.5	117.7
167	15.5	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Manual Integrations
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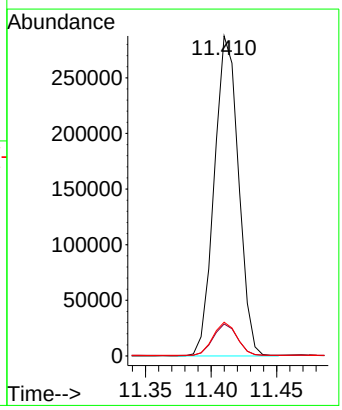
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

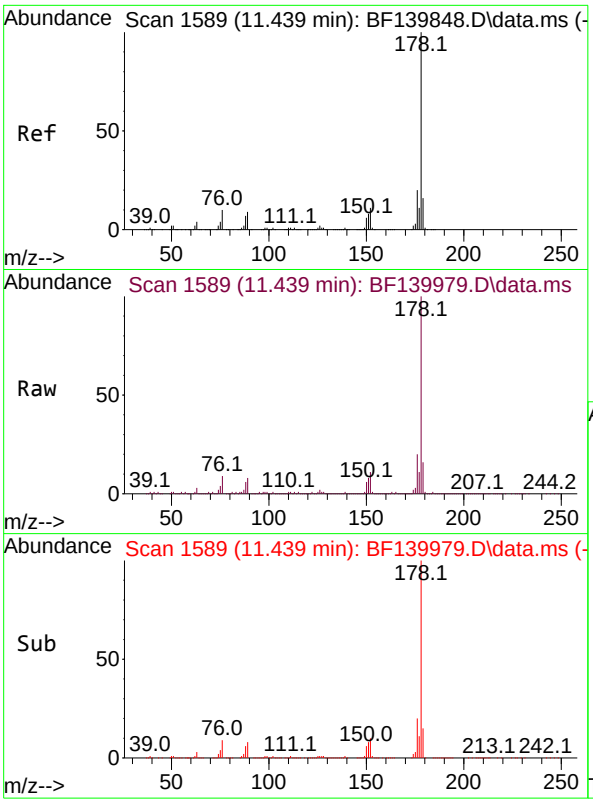


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:188 Resp: 369608

Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.9	11.9
80	10.5	9.0	13.4

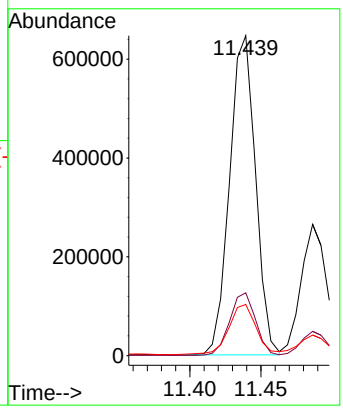




#71
Phenanthrene
Concen: 47.091 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:178 Resp: 82214

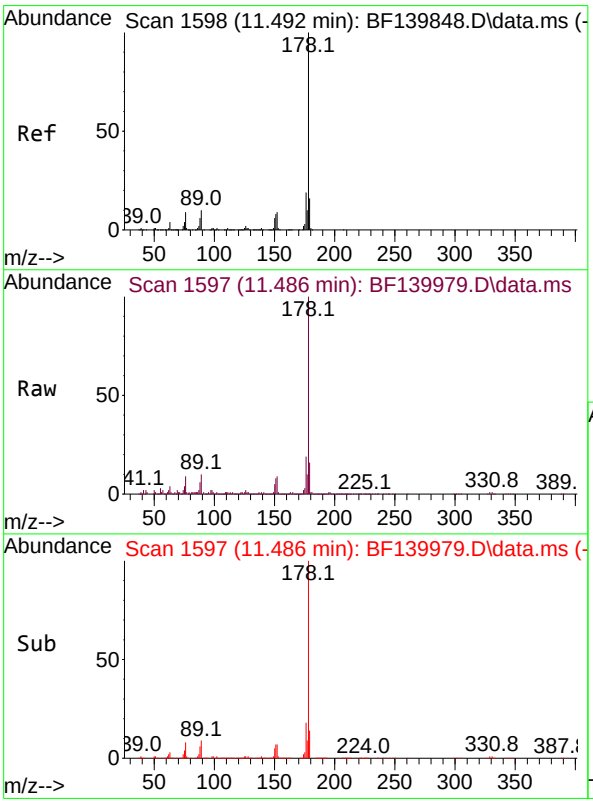
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.6
179	16.0	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Manual Integrations
APPROVED

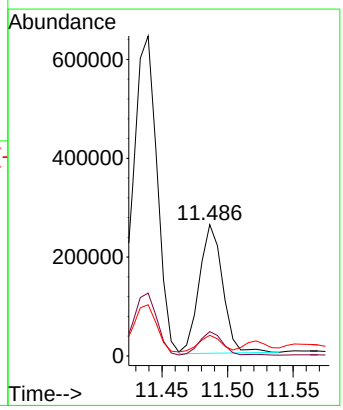
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

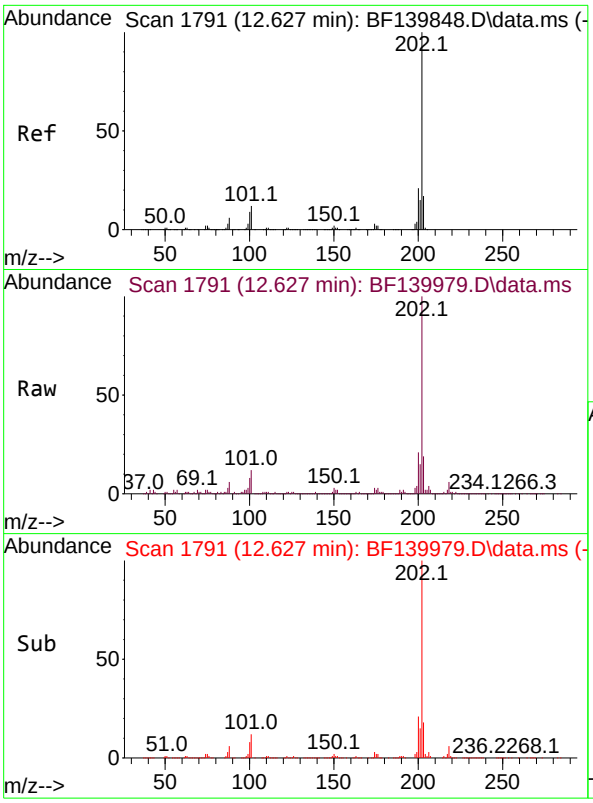


#72
Anthracene
Concen: 19.044 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:178 Resp: 324395

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.3	22.9
179	15.7	12.4	18.6

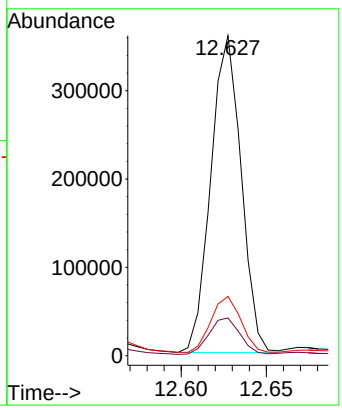




#75
Fluoranthene
Concen: 25.153 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:202 Resp: 44392

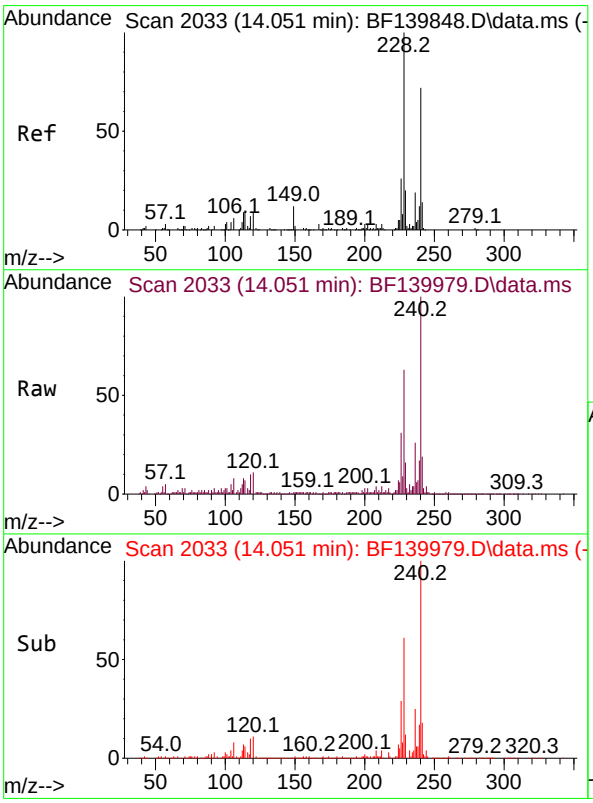
Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	31.9
203	18.5	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Manual Integrations APPROVED

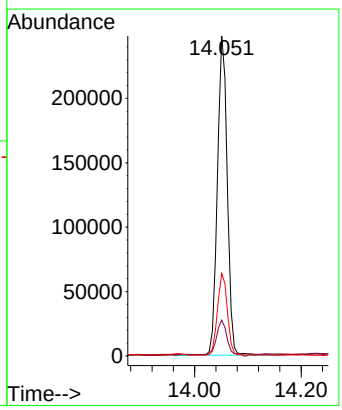
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

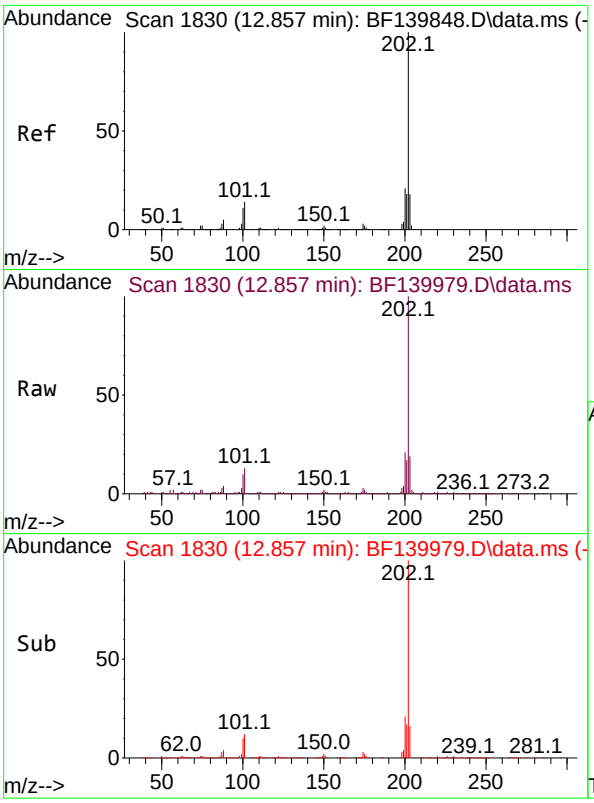


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:240 Resp: 318909

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.4	14.2
236	25.8	20.9	31.3

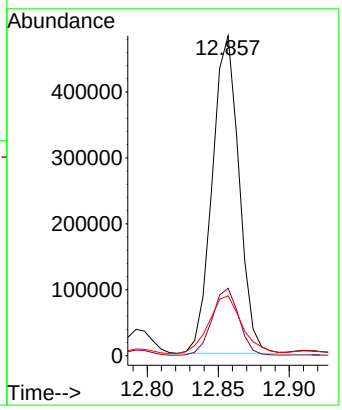




#78
Pyrene
Concen: 22.634 ng
RT: 12.857 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

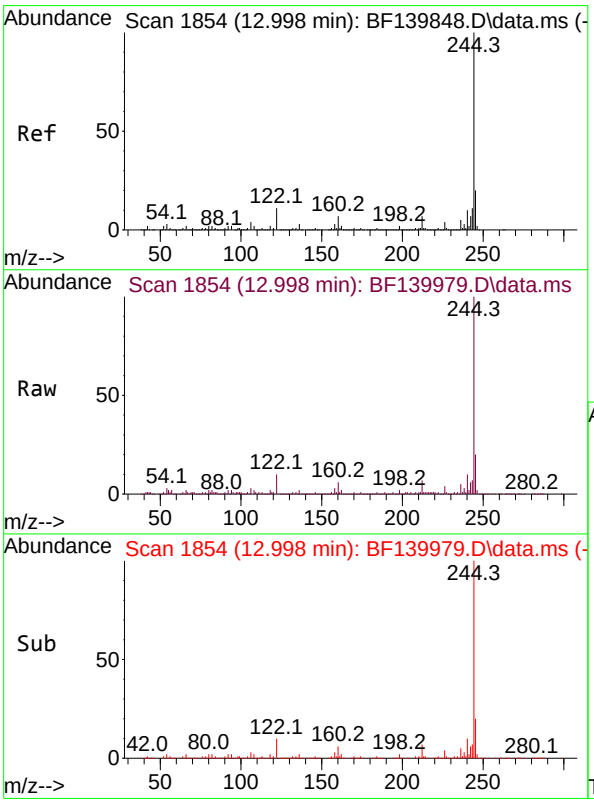
Tgt Ion:202 Resp: 63184

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.2	25.8
203	18.7	14.2	21.4



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

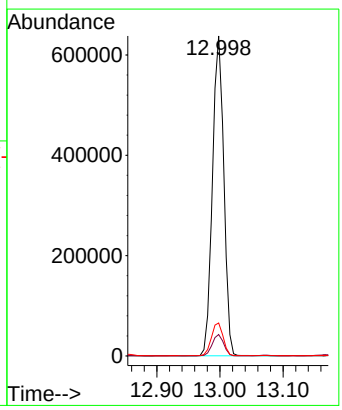
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Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

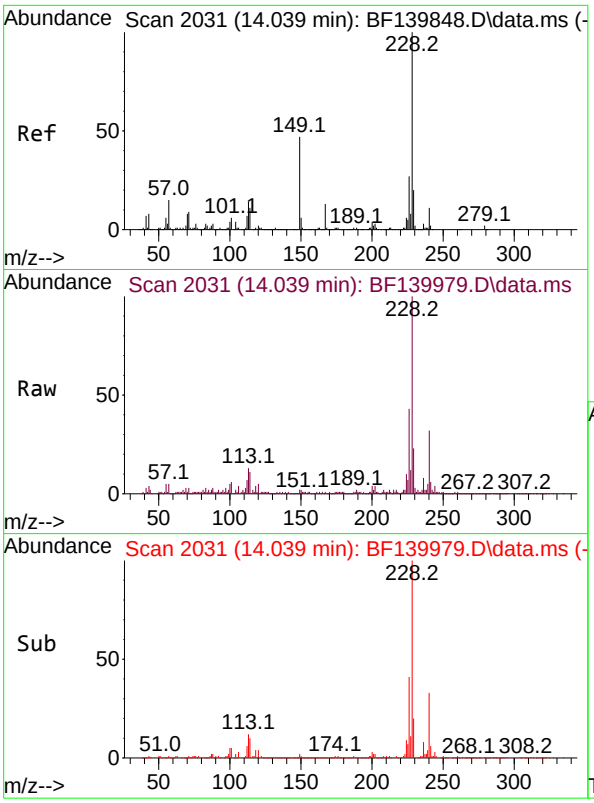


#79
Terphenyl-d14
Concen: 40.609 ng
RT: 12.998 min Scan# 1854
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:244 Resp: 794759

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.7	8.5
122	10.3	8.6	13.0

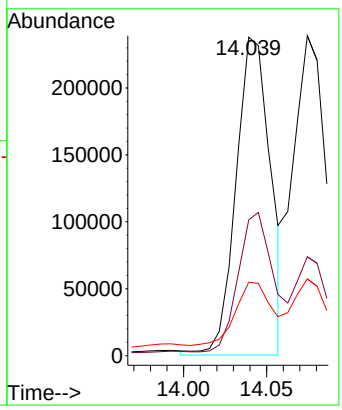




#81
Benzo(a)anthracene
Concen: 16.518 ng m
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

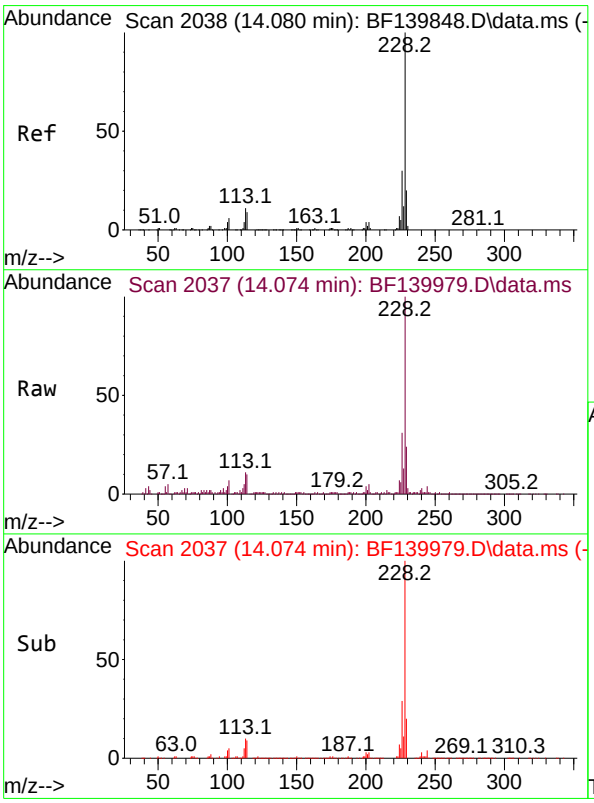
Tgt Ion:228 Resp: 34292

Ion	Ratio	Lower	Upper
228	100		
226	42.7	21.6	32.4#
229	23.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

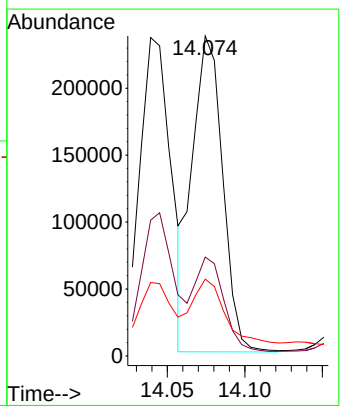
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

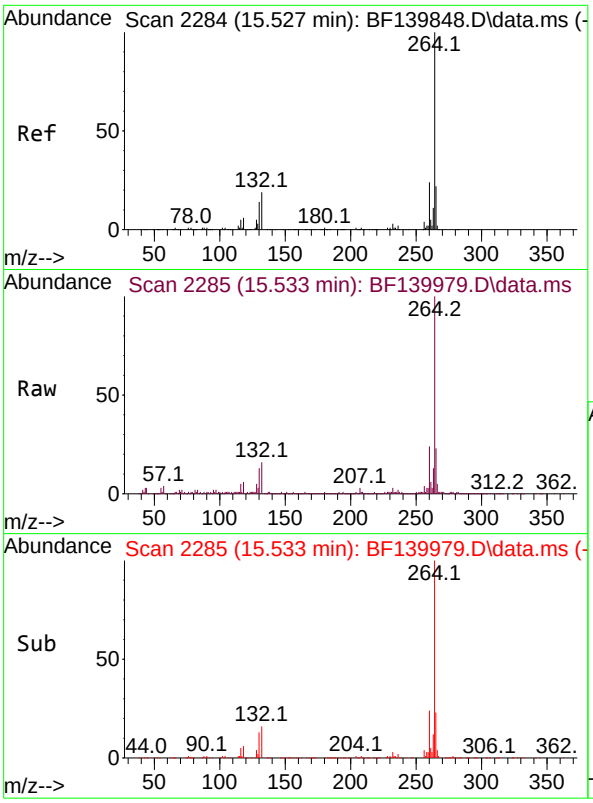


#83
Chrysene
Concen: 16.995 ng
RT: 14.074 min Scan# 2037
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:228 Resp: 323494

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.1	36.1
229	24.0	15.8	23.6#

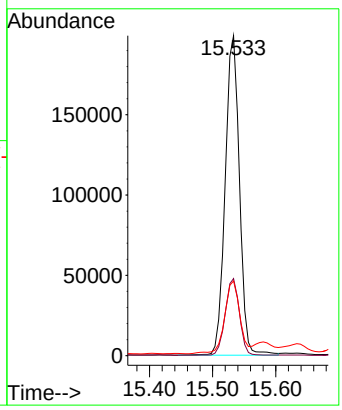




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

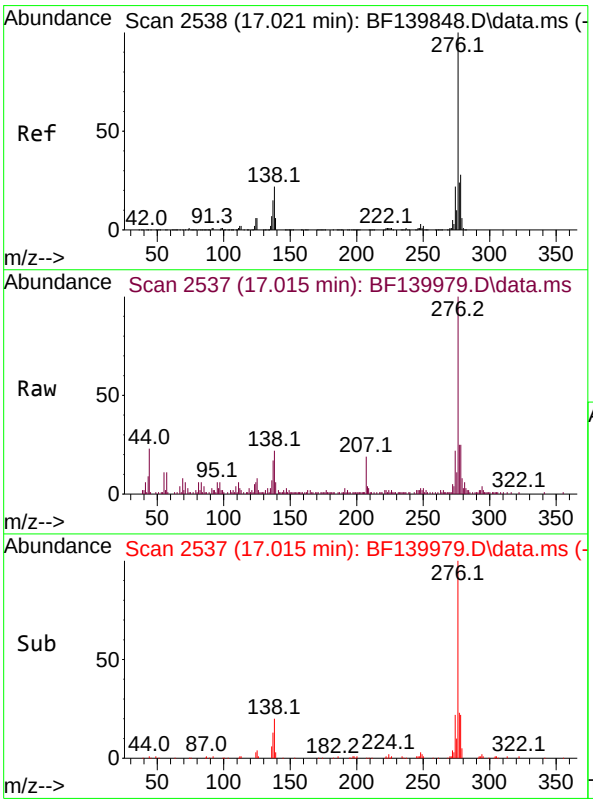
Tgt Ion:264 Resp: 31163

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.4	29.2
265	23.4	17.4	26.0



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

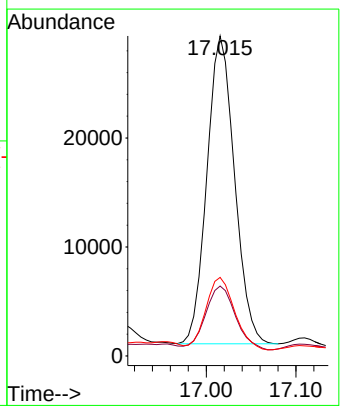
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

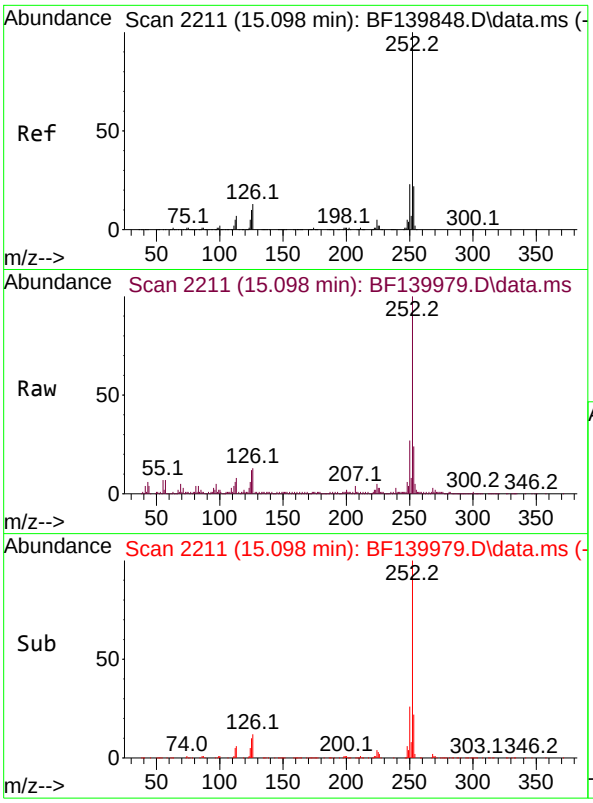


#87
Indeno(1,2,3-cd)pyrene
Concen: 3.009 ng
RT: 17.015 min Scan# 2537
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:276 Resp: 60334

Ion	Ratio	Lower	Upper
276	100		
138	22.4	20.4	30.6
277	24.6	20.2	30.4

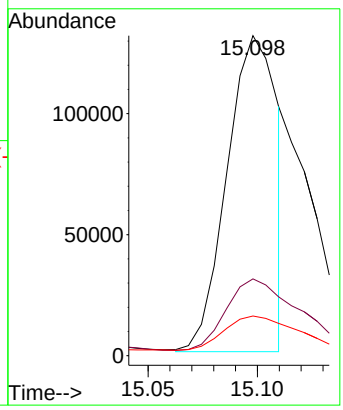




#88
Benzo(b)fluoranthene
Concen: 11.008 ng m
RT: 15.098 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

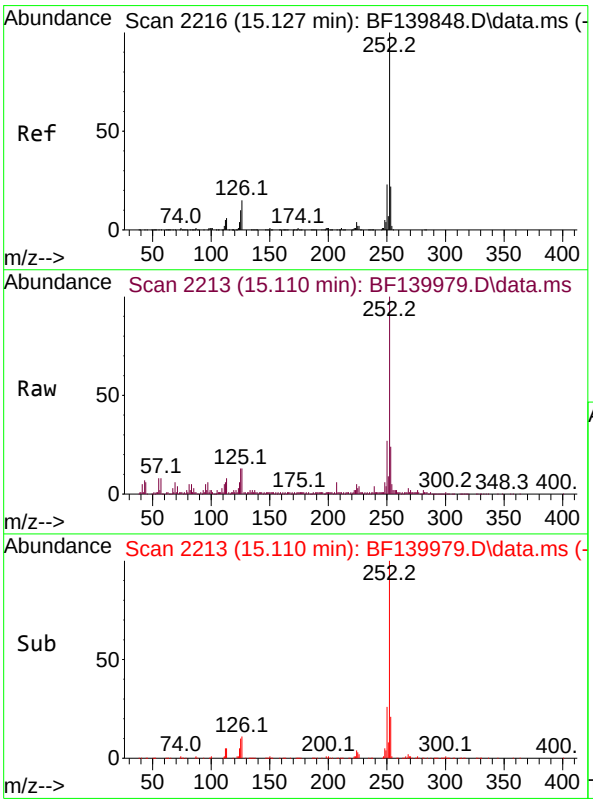
Tgt Ion:252 Resp: 20896

Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.6	26.4
125	12.4	7.9	11.9#



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

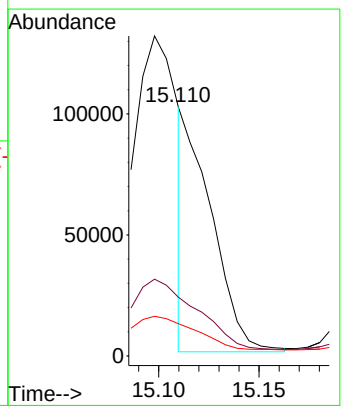
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

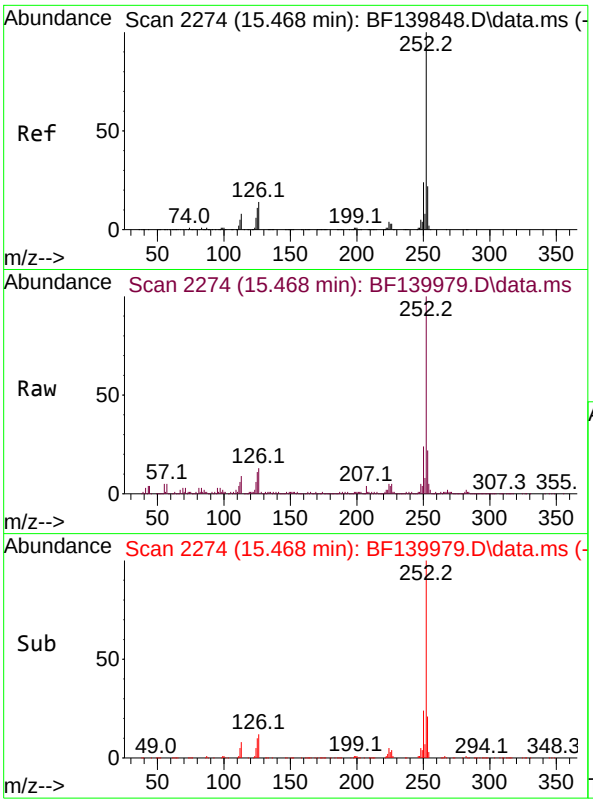


#89
Benzo(k)fluoranthene
Concen: 5.781 ng m
RT: 15.110 min Scan# 2213
Delta R.T. -0.017 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:252 Resp: 94638

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.6	26.4
125	13.0	7.9	11.9#

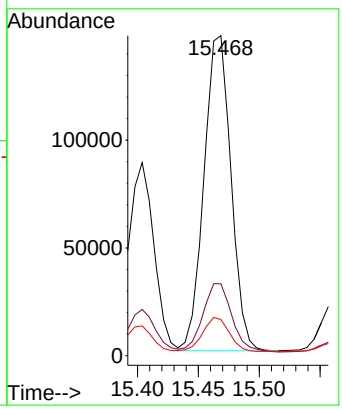




#90
Benzo(a)pyrene
Concen: 14.438 ng
RT: 15.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:252 Resp: 22551

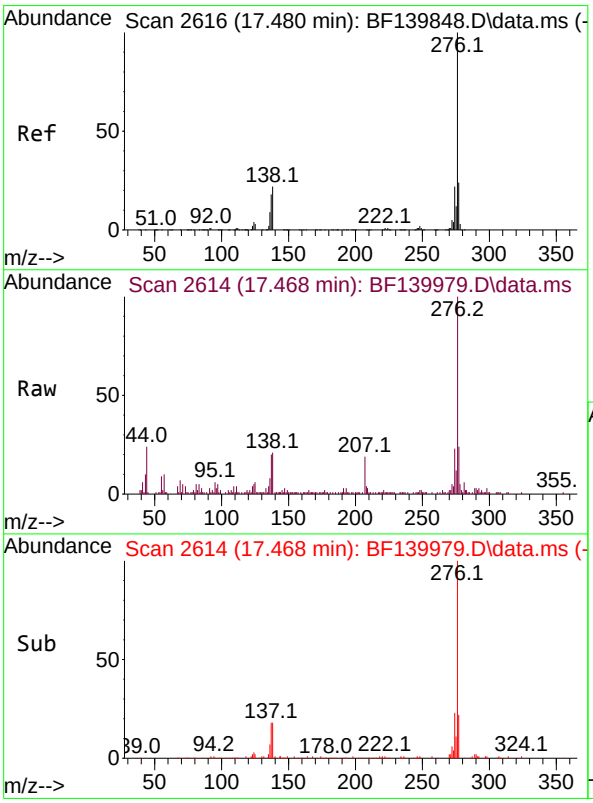
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.3	25.9
125	11.3	8.7	13.1



Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Manual Integrations
APPROVED

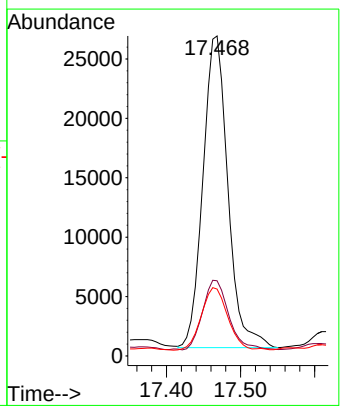
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024



#92
Benzo(g,h,i)perylene
Concen: 3.678 ng
RT: 17.468 min Scan# 2614
Delta R.T. -0.012 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:276 Resp: 61435

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.0	28.6
138	20.9	17.4	26.0



Sample Results: **BF139979.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-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: BF139979.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.205	9	19	29	rVB	2212116	3596286	100.00%	5.857%
2	4.005	314	325	335	rBV	78942	128518	3.57%	0.209%
3	5.116	506	514	523	rVB	141179	212968	5.92%	0.347%
4	5.504	574	580	585	rBV	2211927	2949739	82.02%	4.804%
5	6.504	744	750	759	rVV	2092979	2930953	81.50%	4.773%
6	6.716	782	786	791	rBV2	41698	63301	1.76%	0.103%
7	6.887	810	815	822	rBV	717457	911517	25.35%	1.484%
8	7.069	842	846	852	rVB	63326	77963	2.17%	0.127%
9	7.145	852	859	865	rBV3	55102	102965	2.86%	0.168%
10	7.204	865	869	877	rVB	42956	65361	1.82%	0.106%
11	7.445	901	910	915	rBV	1399760	1921915	53.44%	3.130%
12	7.693	947	952	958	rVB3	53086	109322	3.04%	0.178%
13	7.793	958	969	971	rBV4	24925	68261	1.90%	0.111%
14	7.840	974	977	982	rVB2	57794	78197	2.17%	0.127%
15	7.910	982	989	993	rBV2	102299	173972	4.84%	0.283%
16	7.951	993	996	1000	rBV2	63572	87544	2.43%	0.143%
17	8.169	1026	1033	1035	rBV	910205	1388362	38.61%	2.261%
18	8.192	1035	1037	1041	rVV	1238651	1315232	36.57%	2.142%
19	8.381	1064	1069	1076	rVV7	32864	65822	1.83%	0.107%
20	8.675	1116	1119	1124	rVB4	69664	95087	2.64%	0.155%
21	8.757	1130	1133	1137	rVV	65533	79357	2.21%	0.129%
22	8.810	1137	1142	1149	rVV5	55658	146664	4.08%	0.239%
23	8.881	1149	1154	1159	rVB	1036143	1303126	36.24%	2.122%
24	8.981	1166	1171	1176	rBV	978589	1226156	34.10%	1.997%
25	9.187	1204	1206	1210	rVB	62489	74323	2.07%	0.121%
26	9.245	1210	1216	1221	rBV	2147128	2689193	74.78%	4.379%
27	9.345	1226	1233	1239	rVV2	135772	269388	7.49%	0.439%
28	9.439	1244	1249	1255	rVB	498961	723120	20.11%	1.178%
29	9.510	1255	1261	1265	rBV	414583	647111	17.99%	1.054%
30	9.581	1268	1273	1276	rVV	686102	988490	27.49%	1.610%
31	9.610	1276	1278	1281	rVV	373426	412295	11.46%	0.671%
32	9.645	1281	1284	1289	rVV3	129502	185893	5.17%	0.303%
33	9.698	1289	1293	1301	rVB	334947	516809	14.37%	0.842%
34	9.787	1302	1308	1312	rVB2	313274	451673	12.56%	0.736%
35	9.851	1314	1319	1323	rBV2	43197	77936	2.17%	0.127%
36	9.928	1324	1332	1334	rBV2	840074	1301200	36.18%	2.119%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-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	9.957	1334	1337	1342	rVV	1227086	1500408	41.72%	2.443%
38	10.028	1345	1349	1354	rBV	183827	264798	7.36%	0.431%
39	10.081	1354	1358	1361	rBV3	96821	150362	4.18%	0.245%
40	10.122	1361	1365	1369	rVV2	260834	371044	10.32%	0.604%
41	10.163	1369	1372	1380	rVB	175802	249871	6.95%	0.407%
42	10.239	1381	1385	1388	rBV3	189098	289639	8.05%	0.472%
43	10.269	1388	1390	1396	rVB2	139928	176997	4.92%	0.288%
44	10.328	1396	1400	1406	rBV	169304	346991	9.65%	0.565%
45	10.416	1411	1415	1418	rVV4	102776	198050	5.51%	0.323%
46	10.469	1421	1424	1430	rVV	500142	692863	19.27%	1.128%
47	10.528	1430	1434	1438	rVV2	198392	402426	11.19%	0.655%
48	10.581	1440	1443	1447	rVV2	269573	404188	11.24%	0.658%
49	10.634	1448	1452	1459	rVB2	484871	712153	19.80%	1.160%
50	10.710	1459	1465	1470	rBV2	1160631	1627494	45.25%	2.650%
51	10.839	1482	1487	1493	rVB3	233663	347836	9.67%	0.566%
52	10.945	1502	1505	1508	rVB3	81564	89290	2.48%	0.145%
53	11.016	1513	1517	1520	rVV	250953	394317	10.96%	0.642%
54	11.045	1520	1522	1526	rVV2	175910	235606	6.55%	0.384%
55	11.104	1529	1532	1535	rVB	126296	150965	4.20%	0.246%
56	11.222	1549	1552	1555	rVB2	94069	112336	3.12%	0.183%
57	11.304	1562	1566	1574	rVB2	247876	380348	10.58%	0.619%
58	11.410	1580	1584	1586	rBV	698650	959149	26.67%	1.562%
59	11.439	1586	1589	1593	rVV	1512094	1874567	52.13%	3.053%
60	11.486	1593	1597	1601	rVV	571237	719796	20.01%	1.172%
61	11.522	1601	1603	1606	rVB2	77337	79352	2.21%	0.129%
62	11.745	1638	1641	1651	rVB3	129116	208544	5.80%	0.340%
63	11.828	1652	1655	1658	rVB	77666	96360	2.68%	0.157%
64	11.916	1666	1670	1672	rBV	460095	667700	18.57%	1.087%
65	11.939	1672	1674	1679	rVV	654537	774649	21.54%	1.262%
66	11.986	1679	1682	1685	rVV	268848	379886	10.56%	0.619%
67	12.028	1685	1689	1697	rVB	761456	1553179	43.19%	2.529%
68	12.210	1716	1720	1728	rVB2	213603	327048	9.09%	0.533%
69	12.357	1743	1745	1748	rVB	98361	101108	2.81%	0.165%
70	12.392	1748	1751	1757	rVB2	114012	201861	5.61%	0.329%
71	12.463	1759	1763	1766	rBV	362761	499821	13.90%	0.814%
72	12.498	1766	1769	1775	rVV2	255167	462255	12.85%	0.753%
73	12.557	1775	1779	1786	rVB4	148041	319061	8.87%	0.520%
74	12.627	1786	1791	1794	rBV	862867	1079828	30.03%	1.759%
75	12.669	1794	1798	1803	rVV	787103	1014866	28.22%	1.653%
76	12.722	1803	1807	1814	rVB	304909	413506	11.50%	0.673%

Sample Results: **BF139979.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-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	12.792	1815	1819	1824	rVB3	98911	167115	4.65%	0.272%
78	12.857	1824	1830	1836	rBV	1073423	1567924	43.60%	2.553%
79	12.910	1836	1839	1843	rVB2	94493	118181	3.29%	0.192%
80	12.998	1849	1854	1862	rVB	1640688	2217286	61.65%	3.611%
81	13.069	1863	1866	1873	rBV2	189445	320992	8.93%	0.523%
82	13.180	1879	1885	1889	rVB	403797	739695	20.57%	1.205%
83	13.251	1893	1897	1900	rVV2	292344	432392	12.02%	0.704%
84	13.286	1900	1903	1910	rVV	236289	361896	10.06%	0.589%
85	13.351	1911	1914	1916	rVV	180202	236370	6.57%	0.385%
86	13.380	1916	1919	1921	rVV	220827	294271	8.18%	0.479%
87	13.410	1921	1924	1933	rVB2	237408	364708	10.14%	0.594%
88	14.045	2027	2032	2036	rBV2	1105009	1995549	55.49%	3.250%
89	14.439	2095	2099	2102	rBV	208379	264646	7.36%	0.431%
90	15.098	2206	2211	2221	rVB	309058	682840	18.99%	1.112%
91	15.204	2226	2229	2234	rVB	117084	160468	4.46%	0.261%
92	15.404	2259	2263	2268	rVB	209936	302334	8.41%	0.492%
93	15.463	2269	2273	2279	rVV	351952	540909	15.04%	0.881%
94	15.533	2280	2285	2297	rVB	511205	927302	25.78%	1.510%
95	16.463	2438	2443	2451	rVB2	188098	336317	9.35%	0.548%
96	17.015	2532	2537	2544	rVB2	75292	151341	4.21%	0.246%
97	17.298	2580	2585	2594	rVB	148226	322215	8.96%	0.525%
98	17.462	2609	2613	2619	rVB	52375	100717	2.80%	0.164%
99	17.539	2621	2626	2630	rBV5	49138	121011	3.36%	0.197%
100	18.233	2737	2744	2760	rVB7	119482	412017	11.46%	0.671%

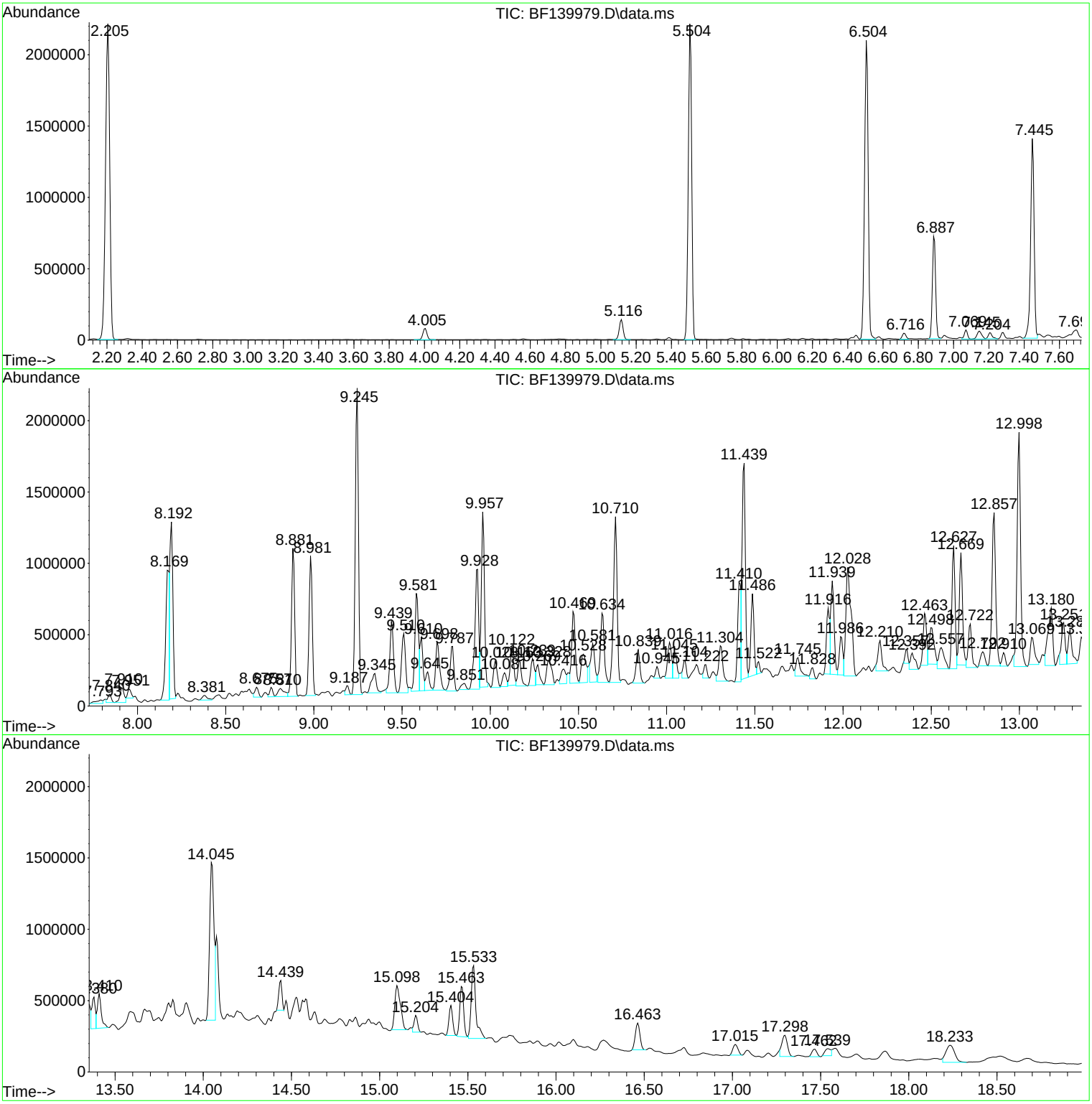
Sum of corrected areas: 61405033

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-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\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

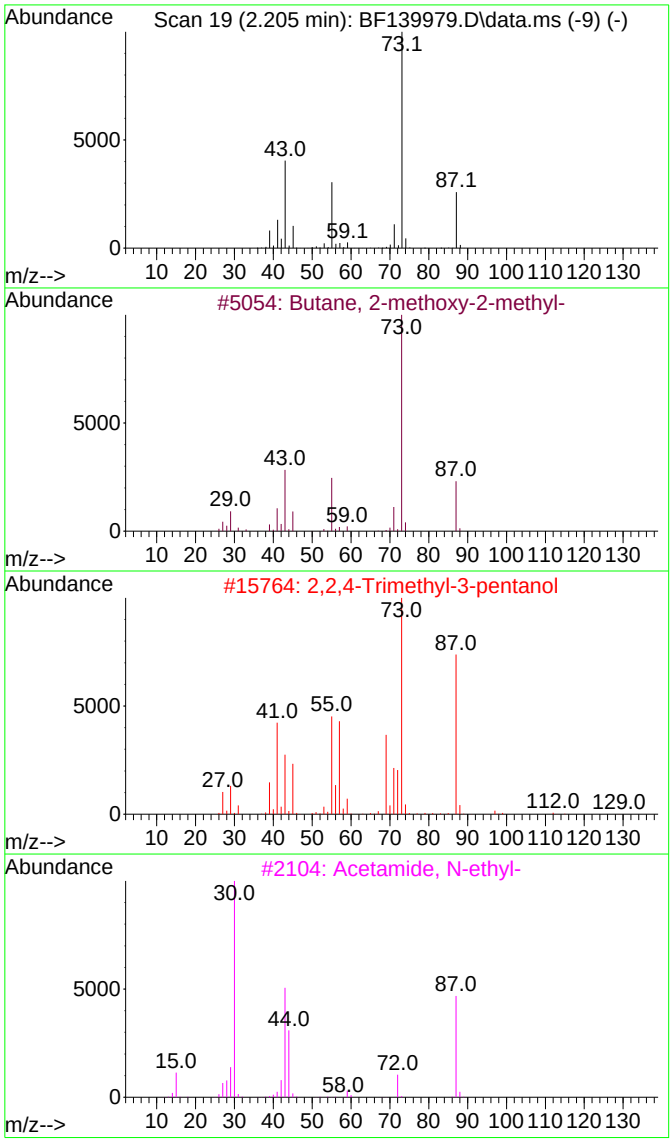
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

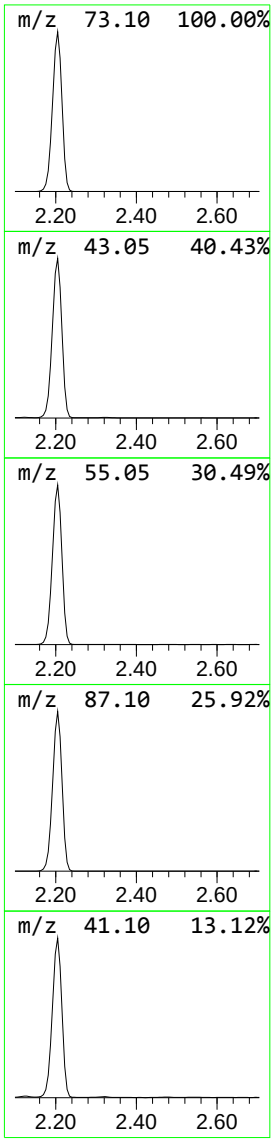
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.205	78.91 ng	3596290	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\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

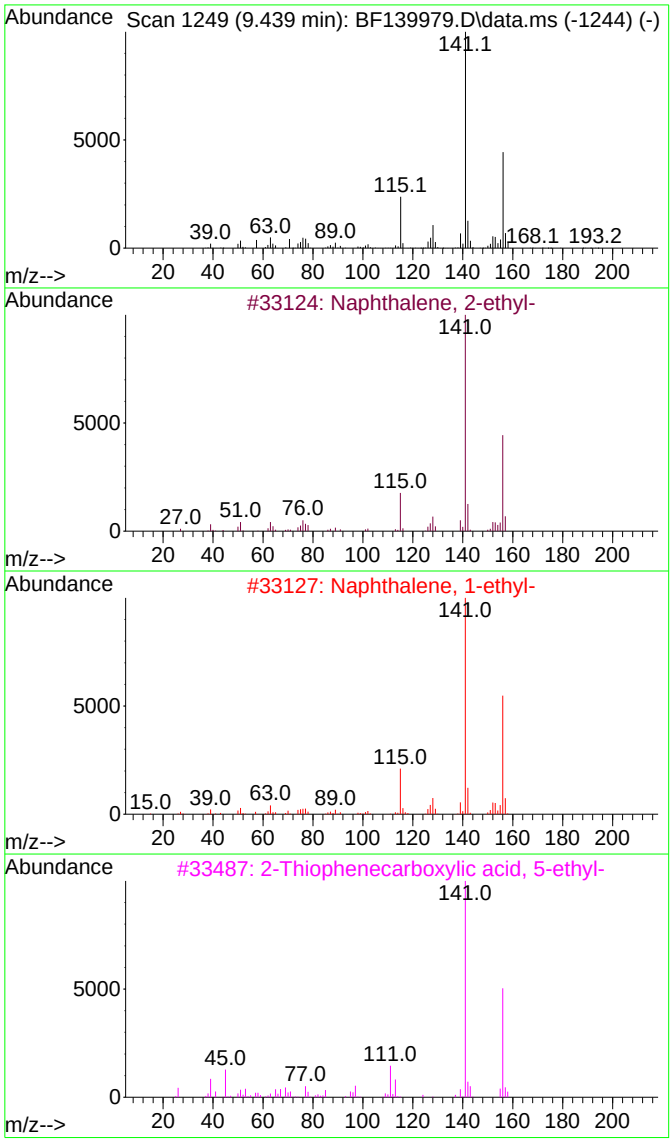
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

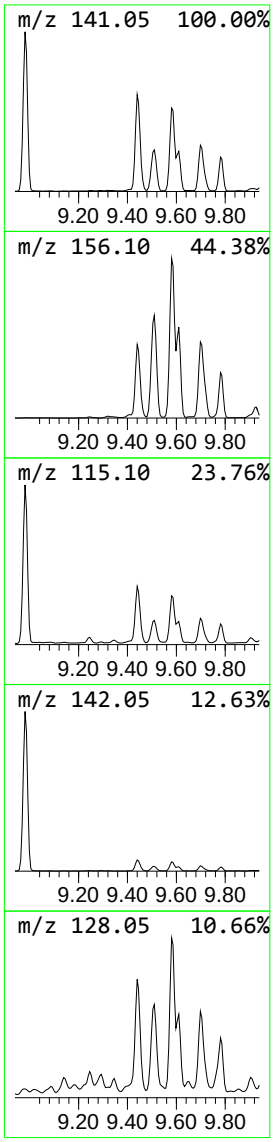
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Peak Number 2 Naphthalene, 2-ethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.439	11.11 ng	723120	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	97
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	96
3	2-Thiophenecarboxylic acid, 5-et...	156	C7H8O2S	023229-72-3	64
4	2-Amino-4-tertbutylthiazole	156	C7H12N2S	074370-93-7	59
5	4-(Methylsulfinyl)phenol	156	C7H8O2S	014763-64-5	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

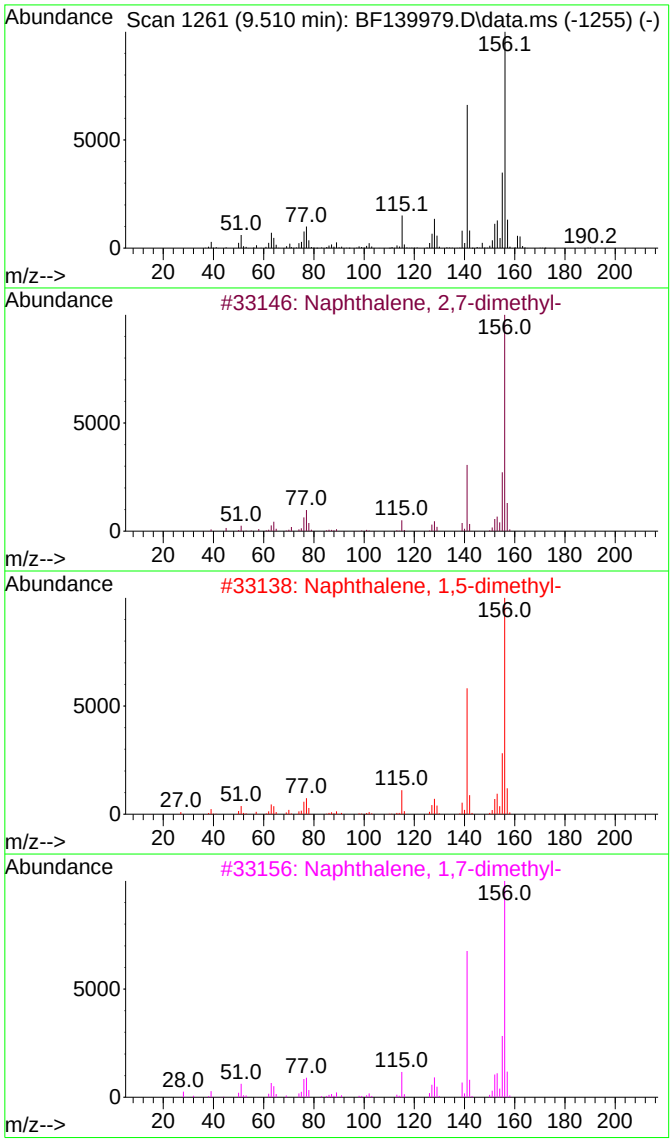
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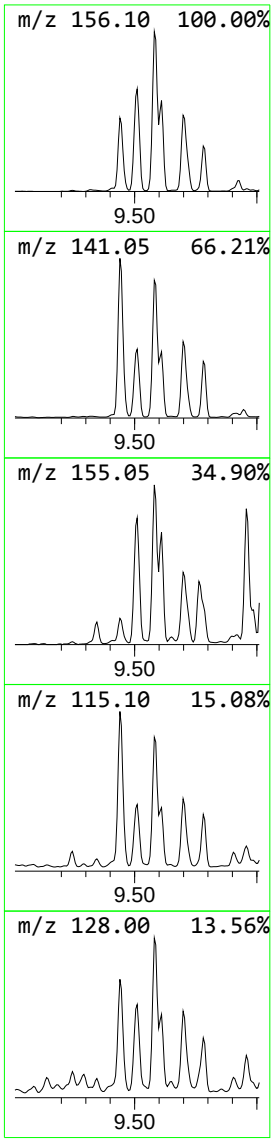
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Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.510	9.95 ng	647111	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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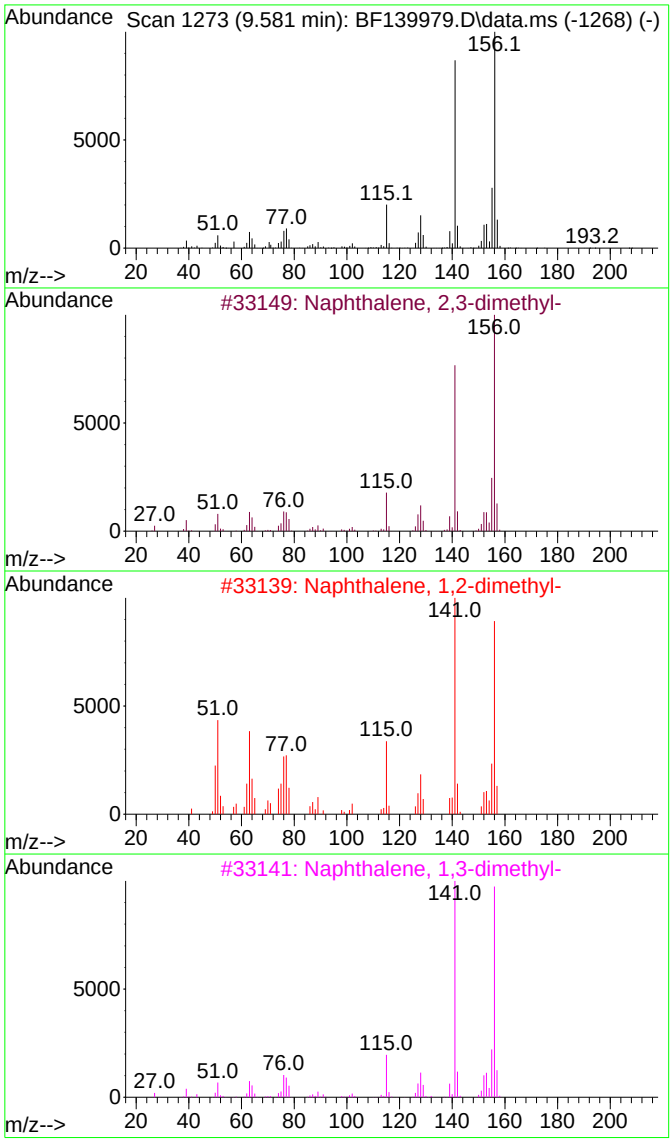
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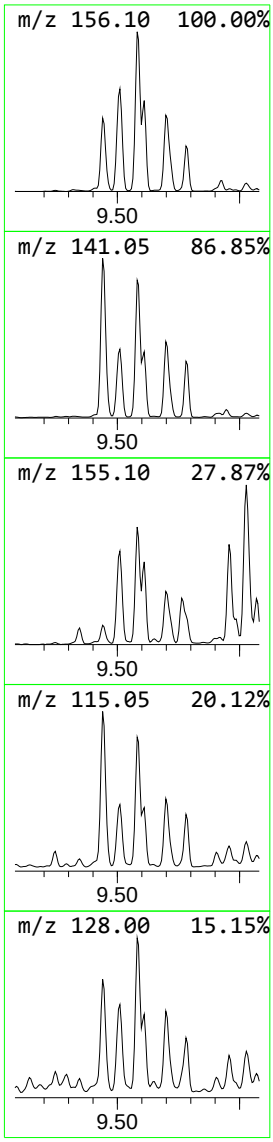
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Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.581	15.19 ng	988490	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95





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Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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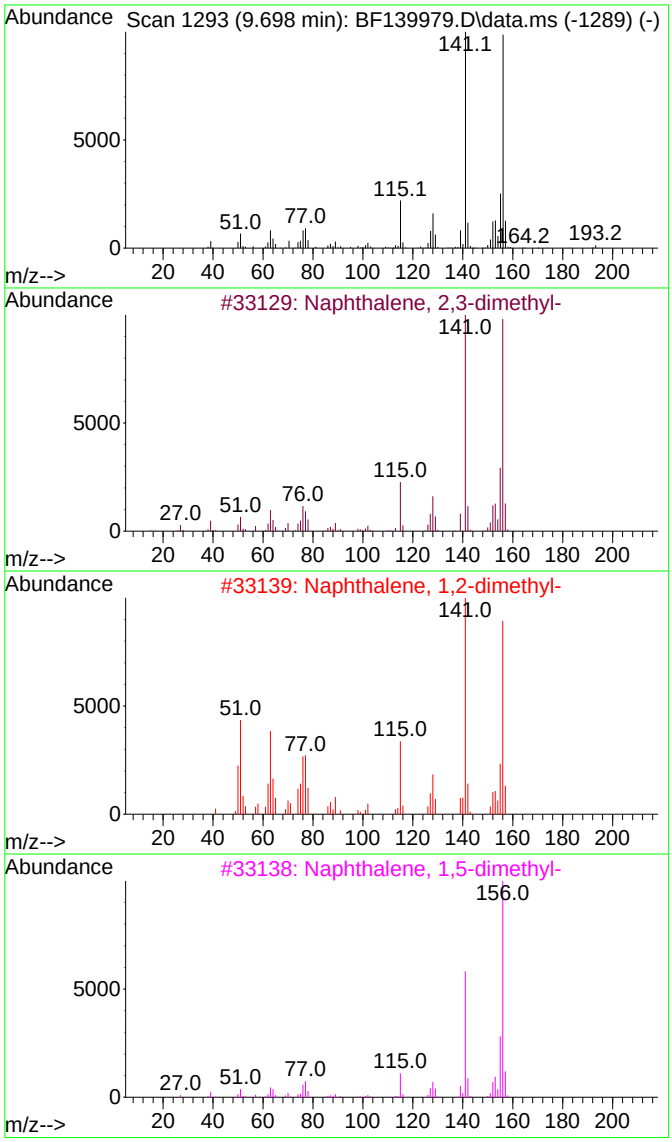
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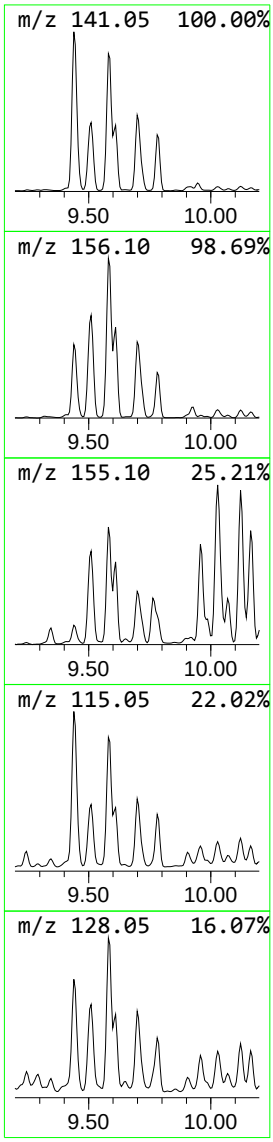
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Peak Number 5 Naphthalene, 1,2-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.698	7.94 ng	516809	Acenaphthene-d10	9.928

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, 1,7-dimethyl-	156	C12H12	000575-37-1	97
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
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Sample : P4397-01
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Instrument :
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ClientSampleId :
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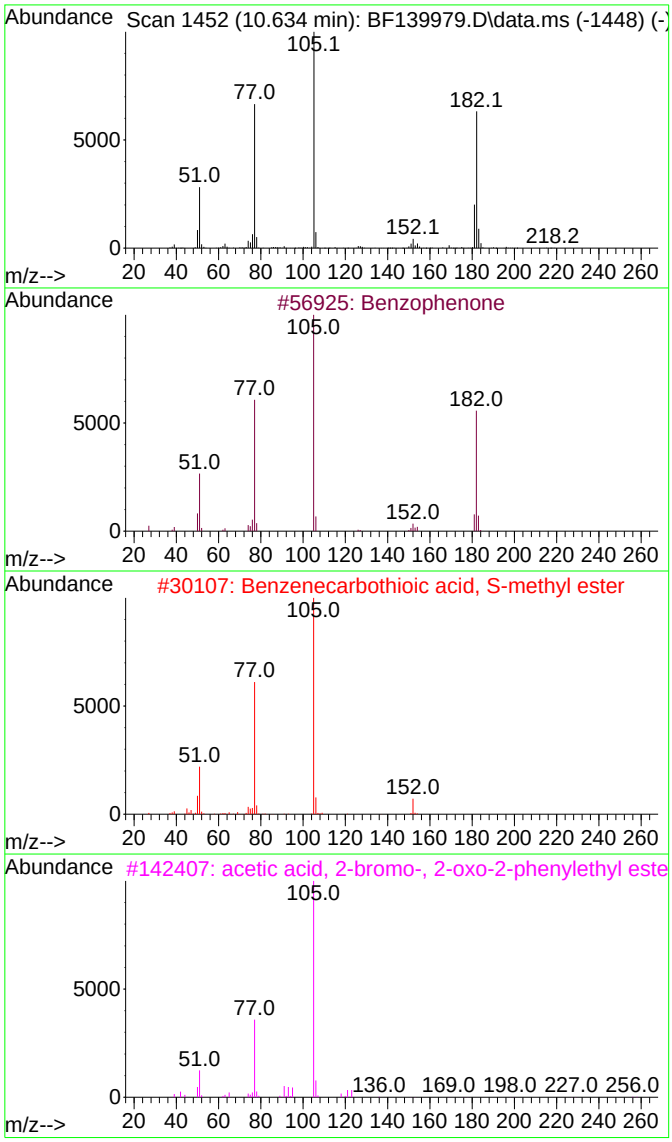
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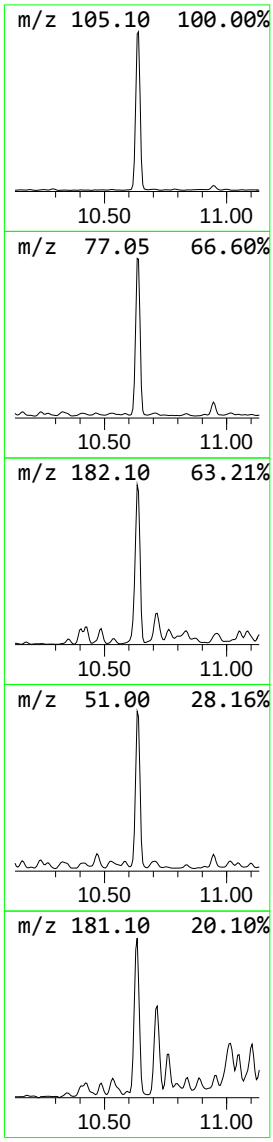
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Peak Number 6 Benzophenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.634	10.95 ng	712153	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	95
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	46
3	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	43
4	N-(1-Cyanovinyl)benzamide	172	C10H8N2O	1000186-19-1	43
5	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
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Sample : P4397-01
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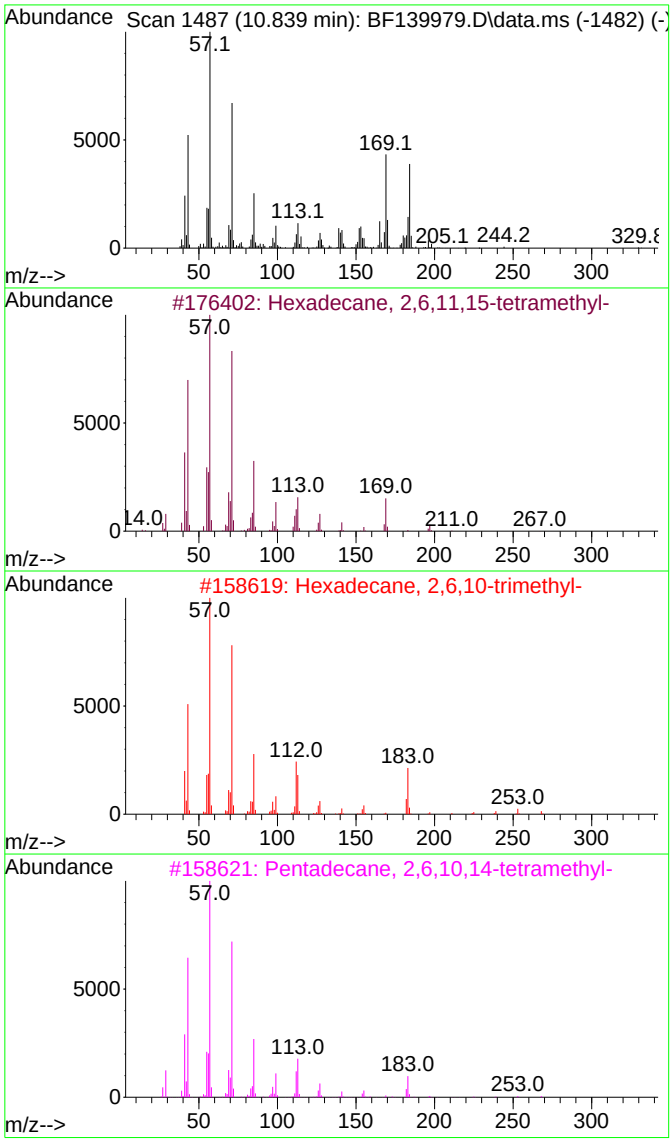
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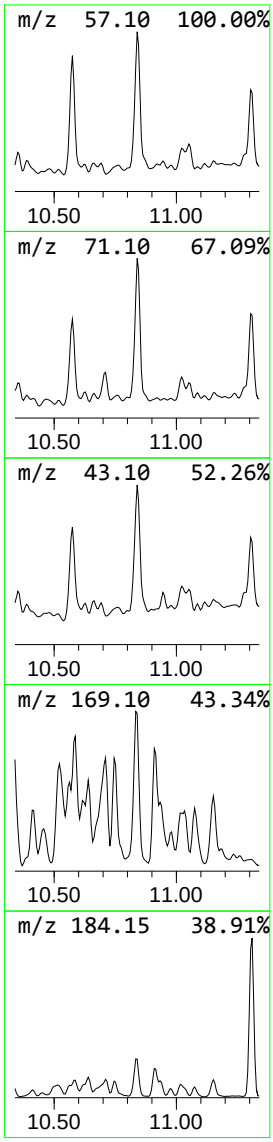
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Peak Number 7 unknown10.839 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.839	7.25 ng	347836	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	30
2	Hexadecane, 2,6,10-trimethyl-	268	C19H40	055000-52-7	30
3	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	30
4	Dodecane, 2-methyl-8-propyl-	226	C16H34	055045-07-3	25
5	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
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Sample : P4397-01
Misc :
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Instrument :
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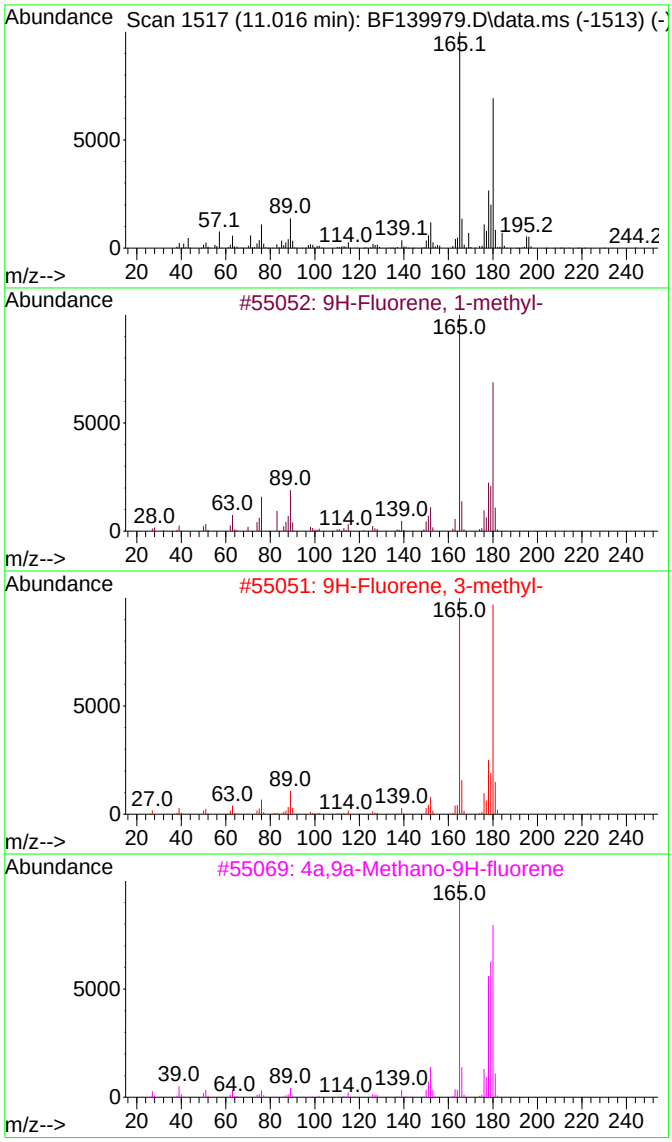
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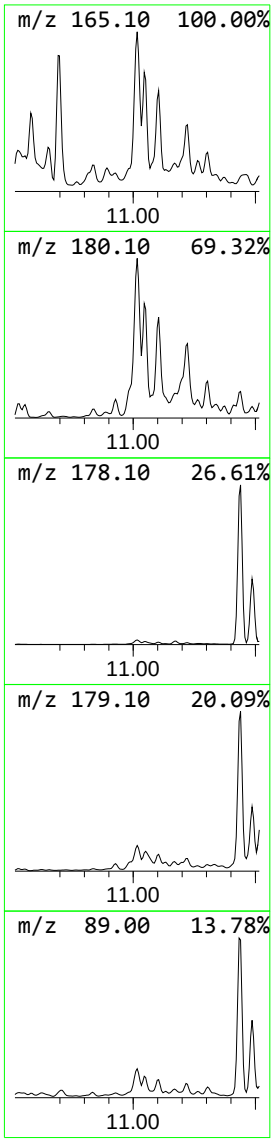
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Peak Number 8 9H-Fluorene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.016	8.22 ng	394317	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
3	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	91
4	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	72
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
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Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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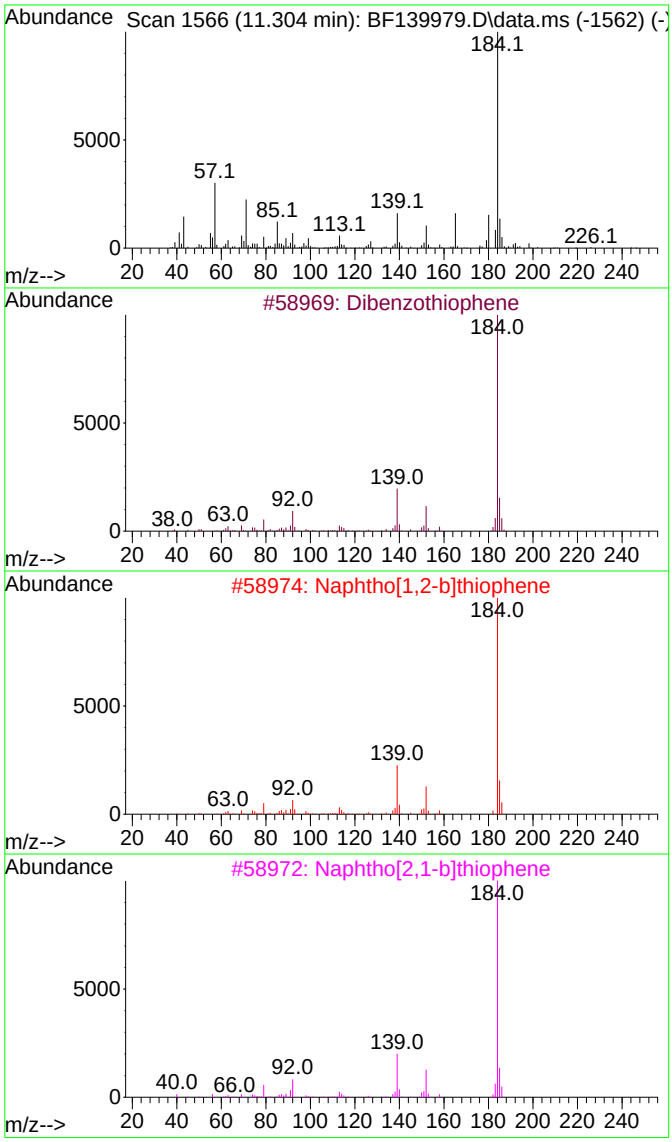
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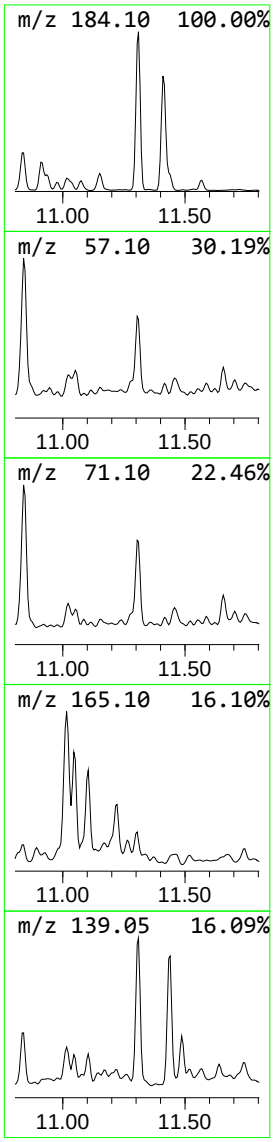
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Peak Number 9 Dibenzothiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.304	7.93 ng	380348	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	83
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	83
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	64
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	64





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Sample : P4397-01
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ALS Vial : 16 Sample Multiplier: 1

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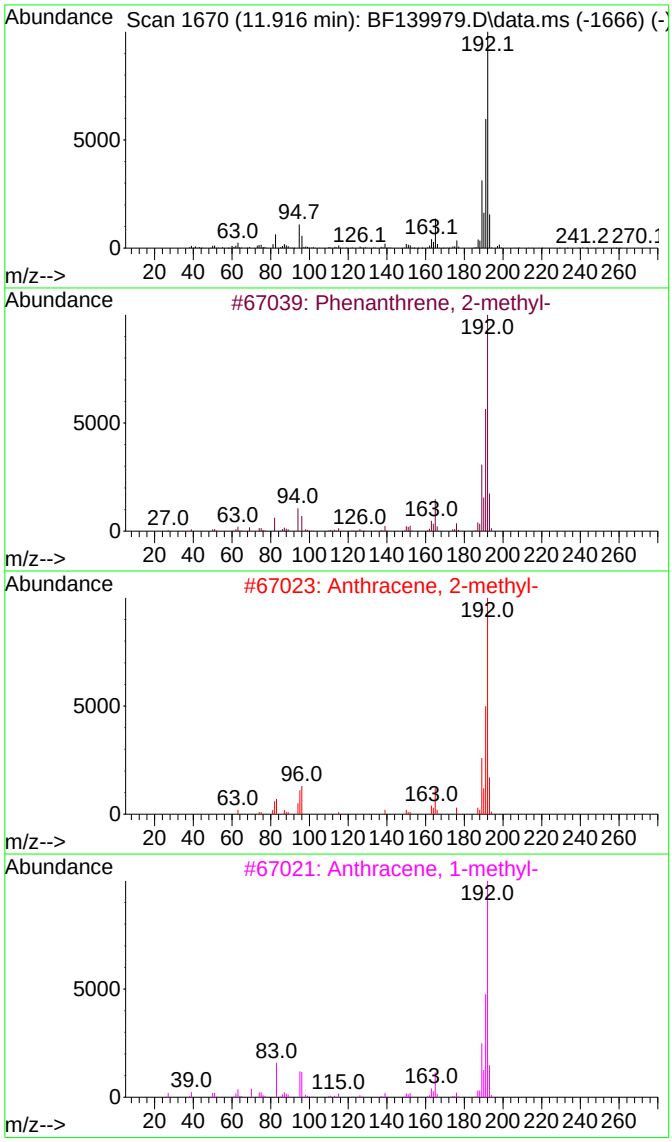
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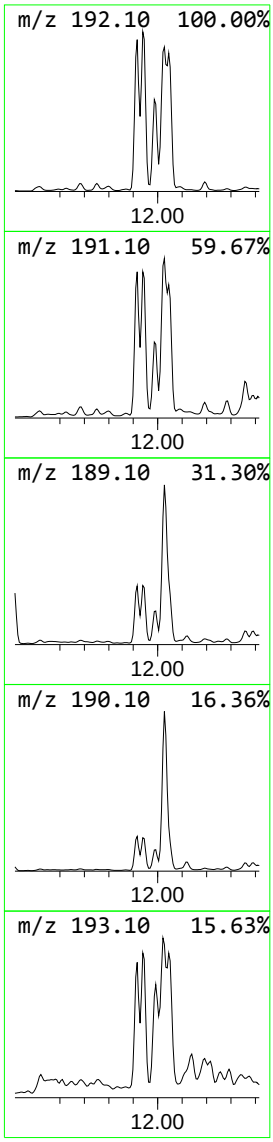
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Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	13.92 ng	667700	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90





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Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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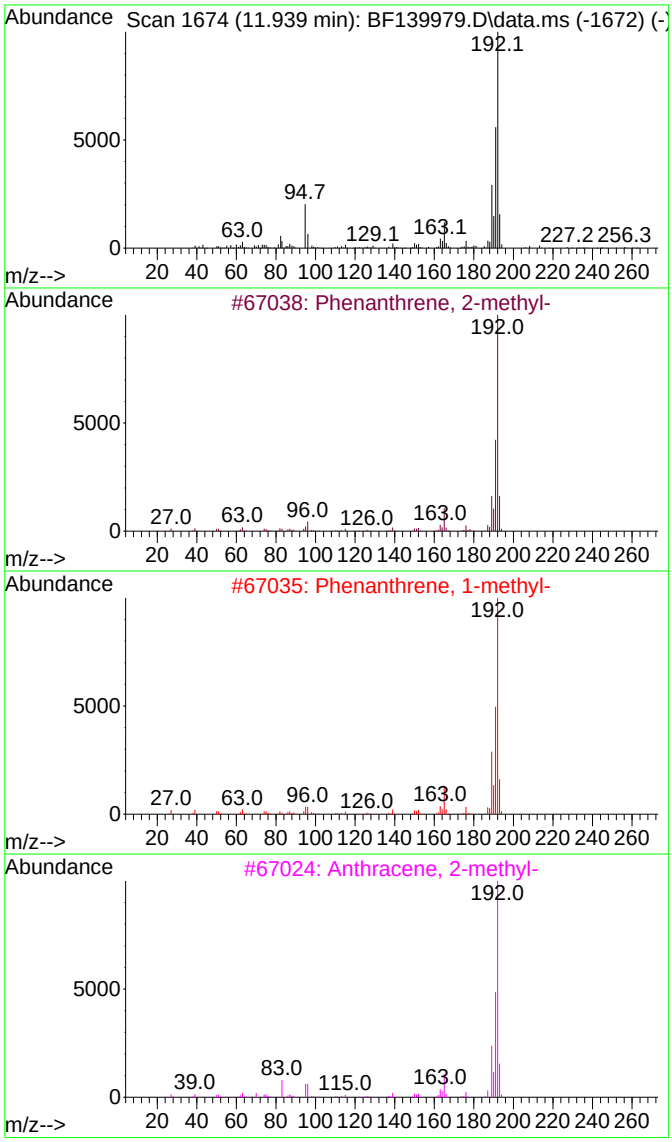
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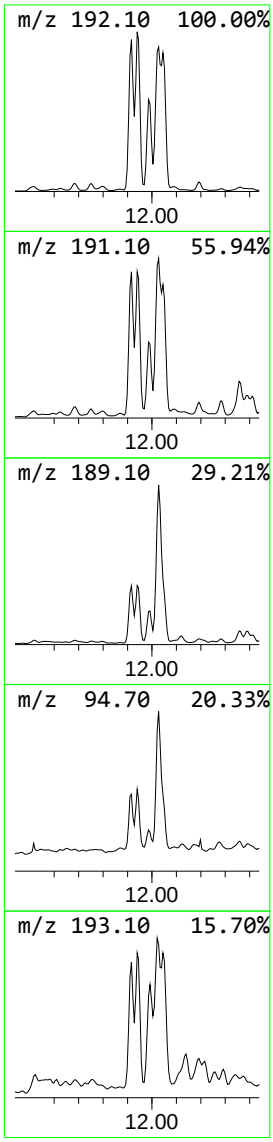
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Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.939	16.15 ng	774649	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
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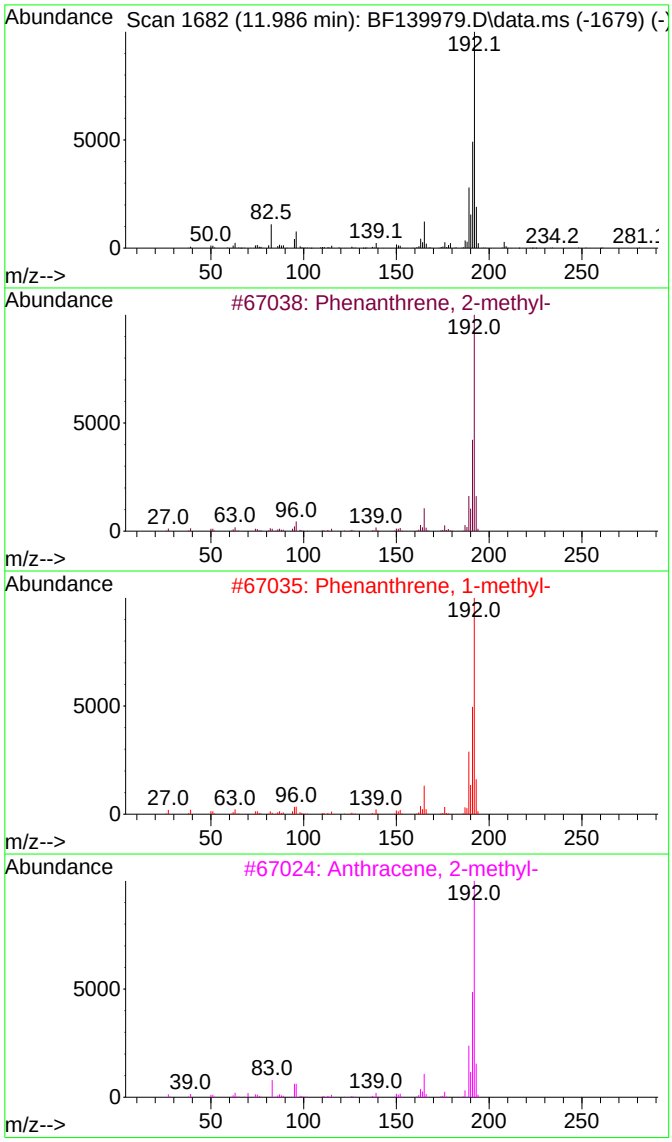
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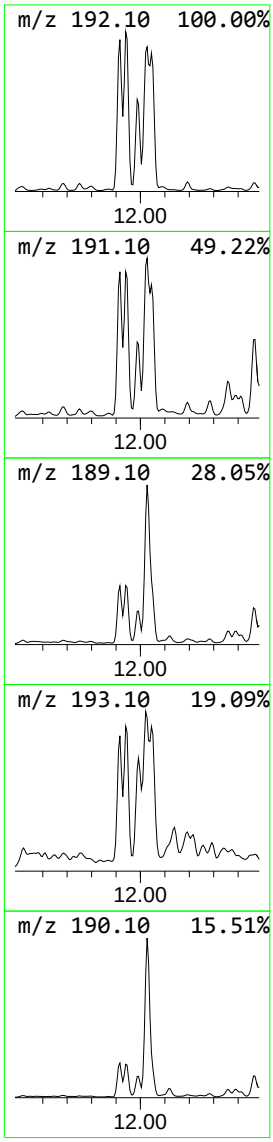
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Peak Number 12 Anthracene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.986	7.92 ng	379886	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93





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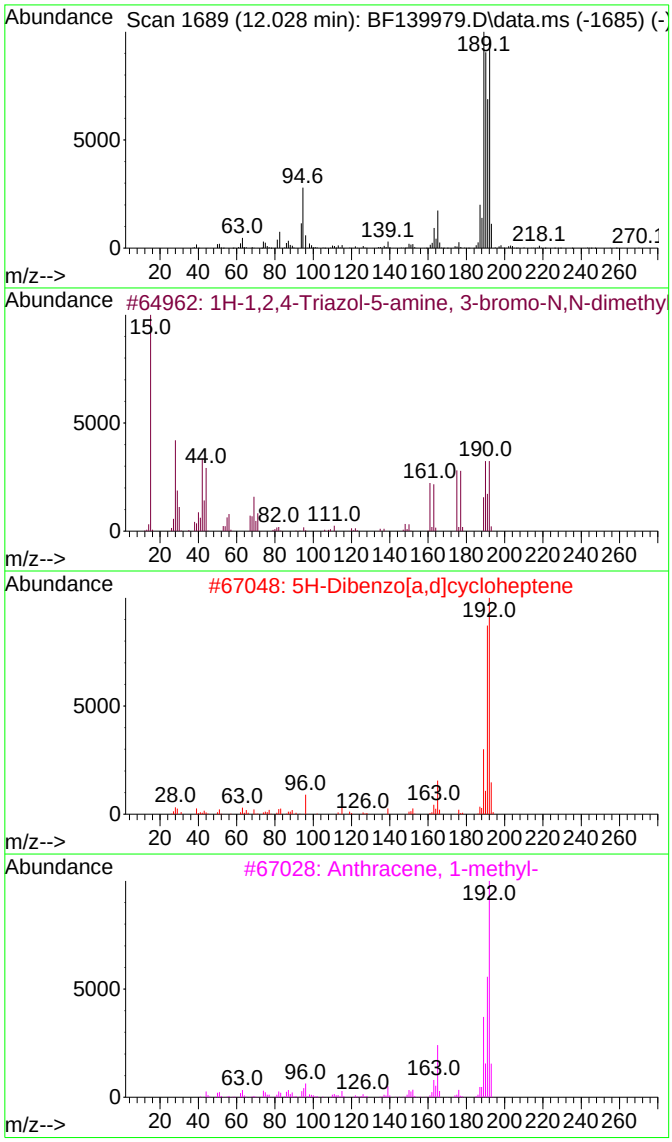
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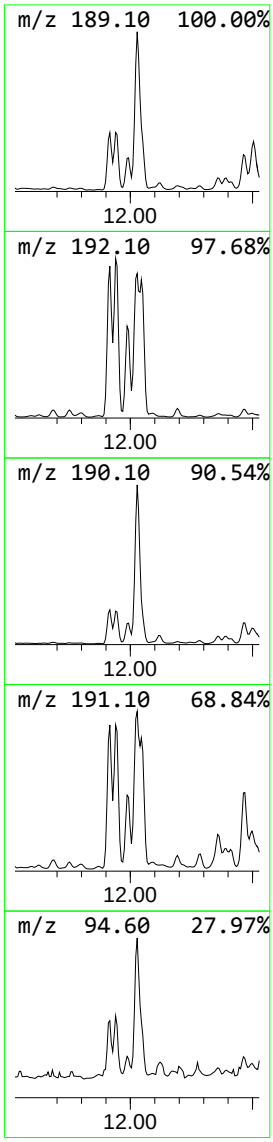
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Peak Number 13 1H-1,2,4-Triazol-5-amine, 3... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.028	32.39 ng	1553180	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-1,2,4-Triazol-5-amine, 3-brom...	190	C4H7BrN4	1000460-85-7	50
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	42
4	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	38
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
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ALS Vial : 16 Sample Multiplier: 1

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ClientSampleId :
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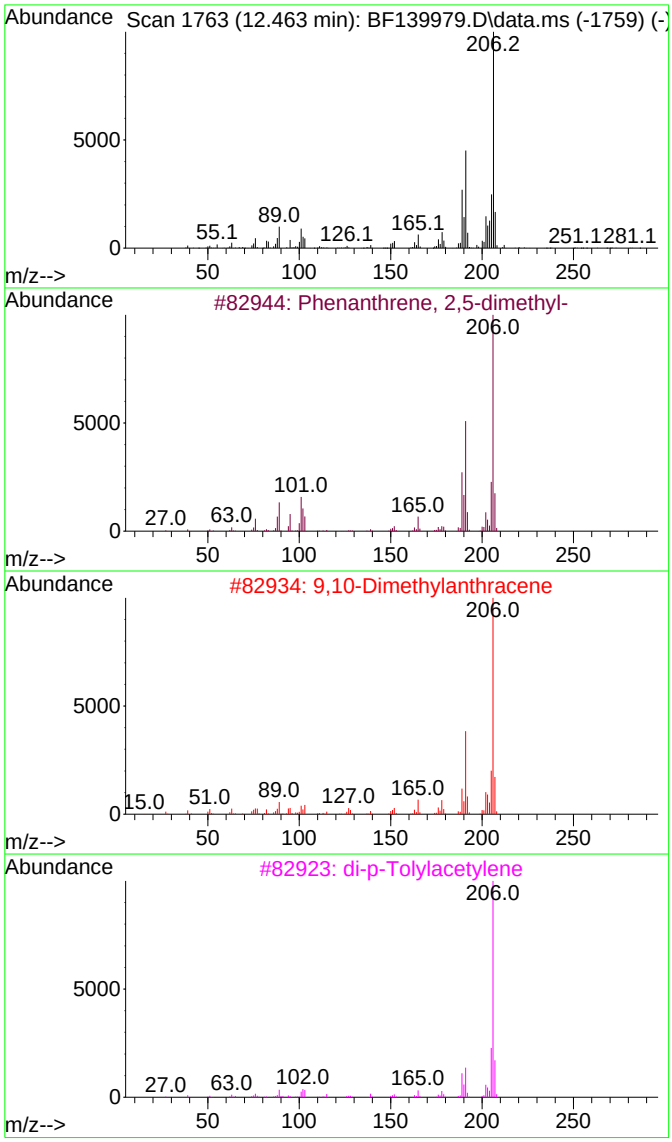
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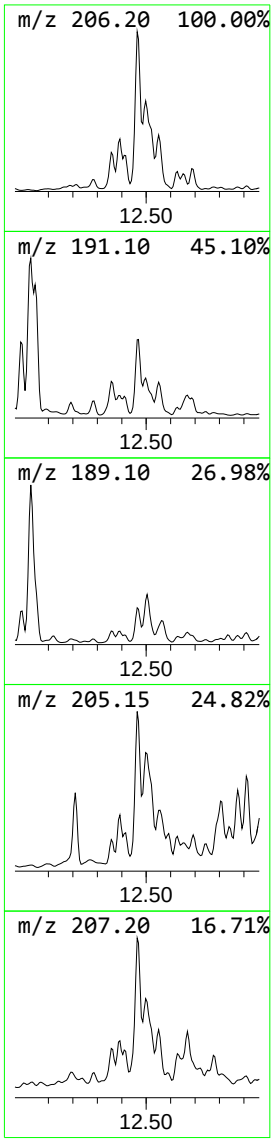
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Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.463	10.42 ng	499821	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

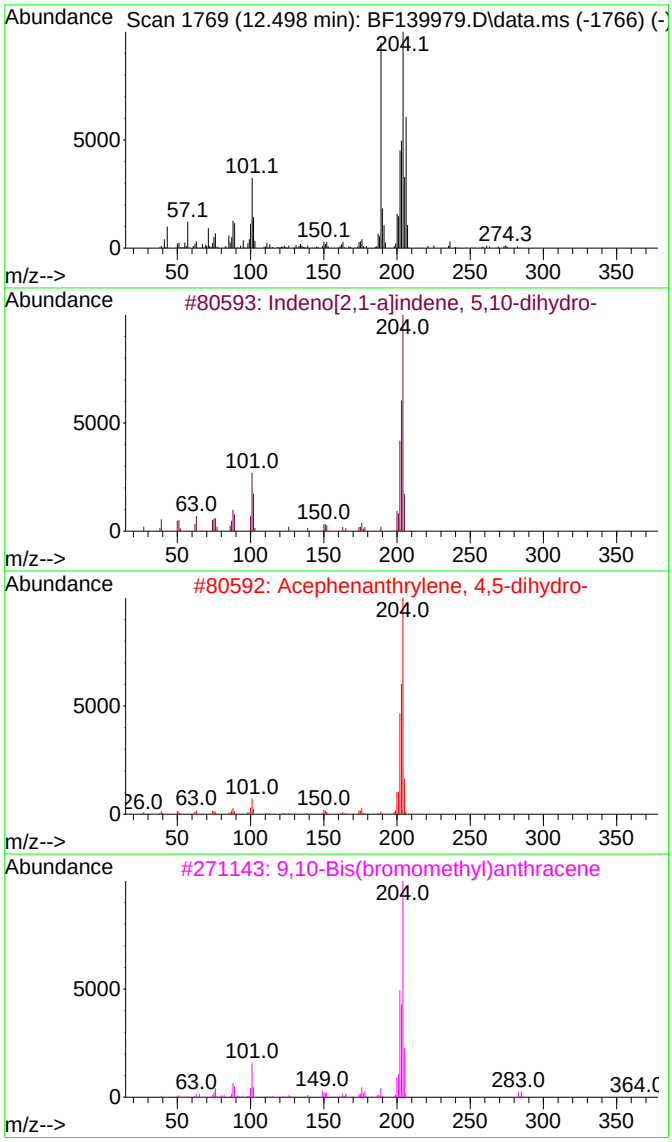
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

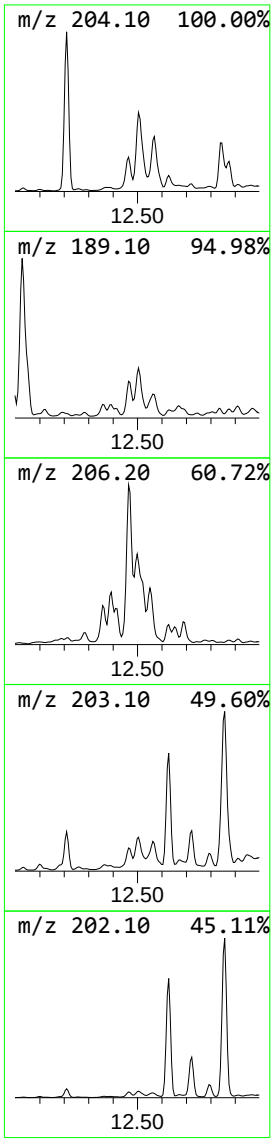
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 Indeno[2,1-a]indene, 5,10-d... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.498	9.64 ng	462255	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	86
2	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	60
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	47
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	43
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	42





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

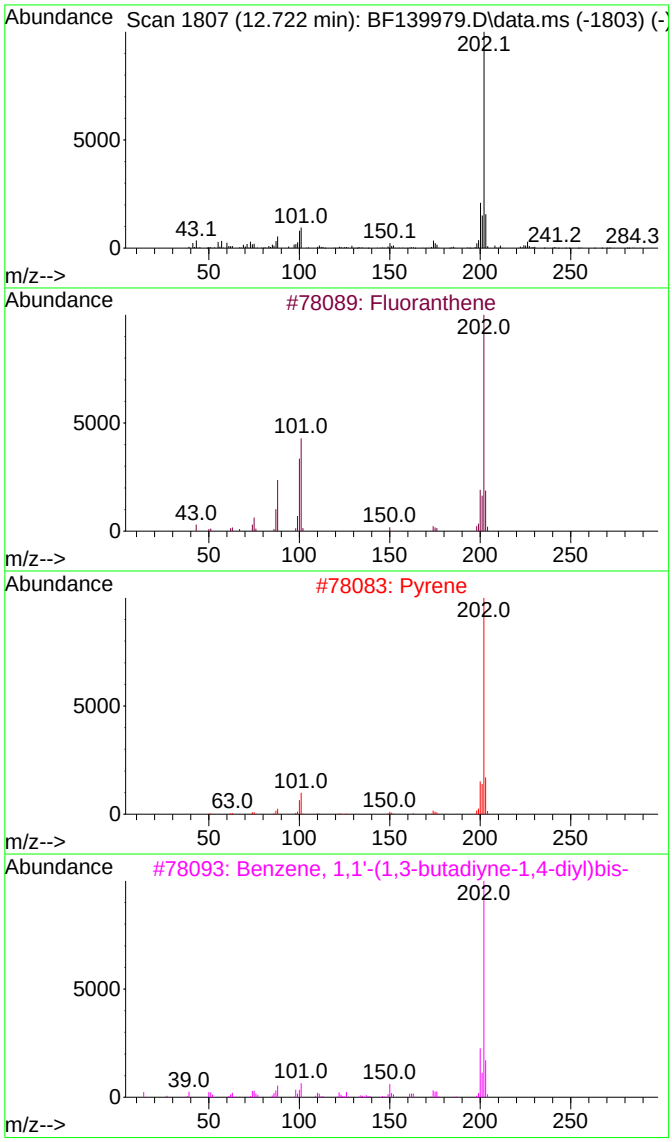
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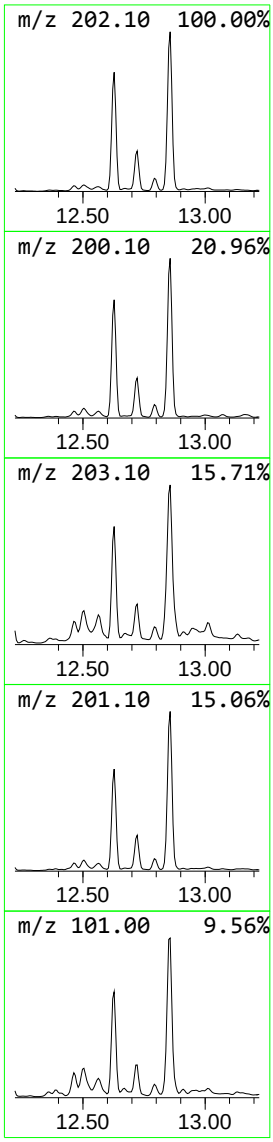
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.722	8.62 ng	413506	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	81
2	Pyrene	202	C16H10	000129-00-0	81
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	72
4	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	60
5	7H-Furo[3,2-g][1]benzopyran-7-on...	202	C11H6O4	002009-24-7	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

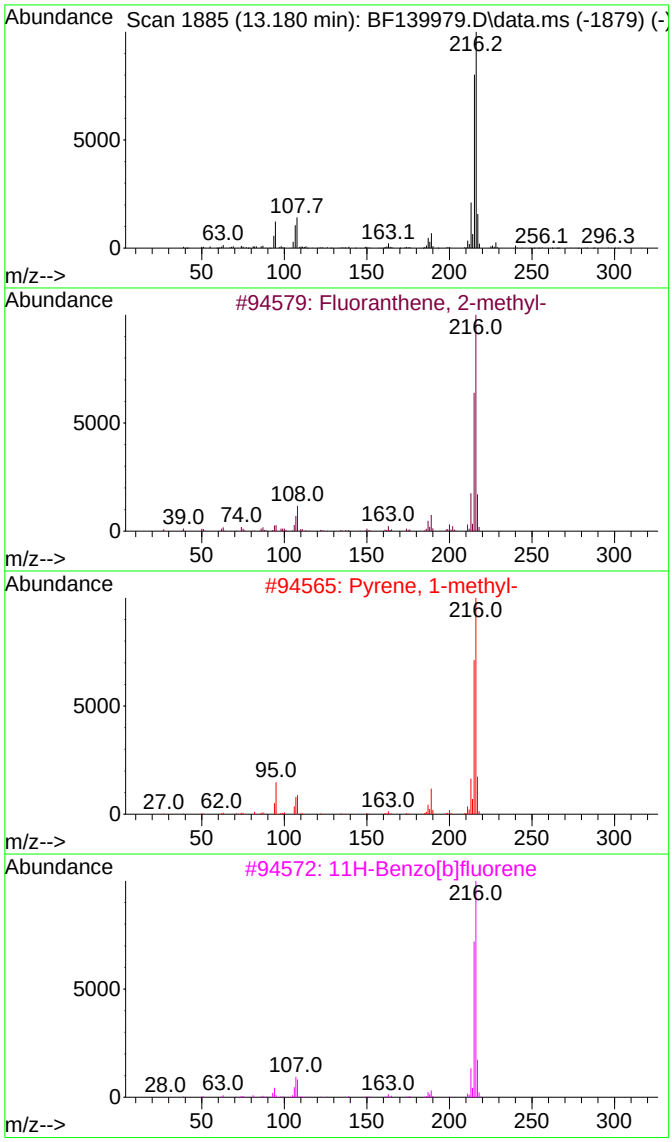
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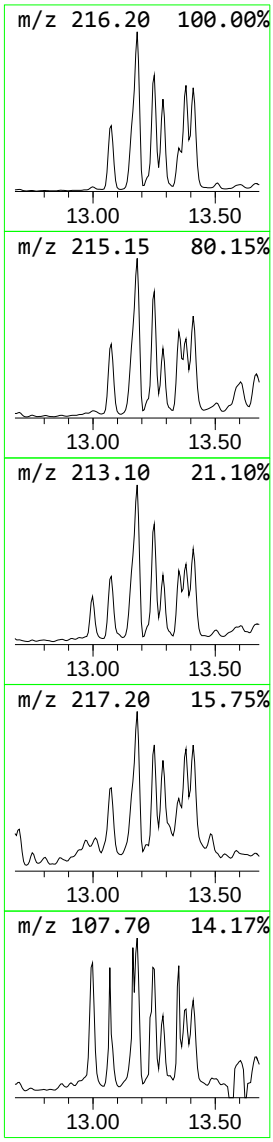
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Peak Number 17 Fluoranthene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.180	7.41 ng	739695	Chrysene-d12	14.051

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

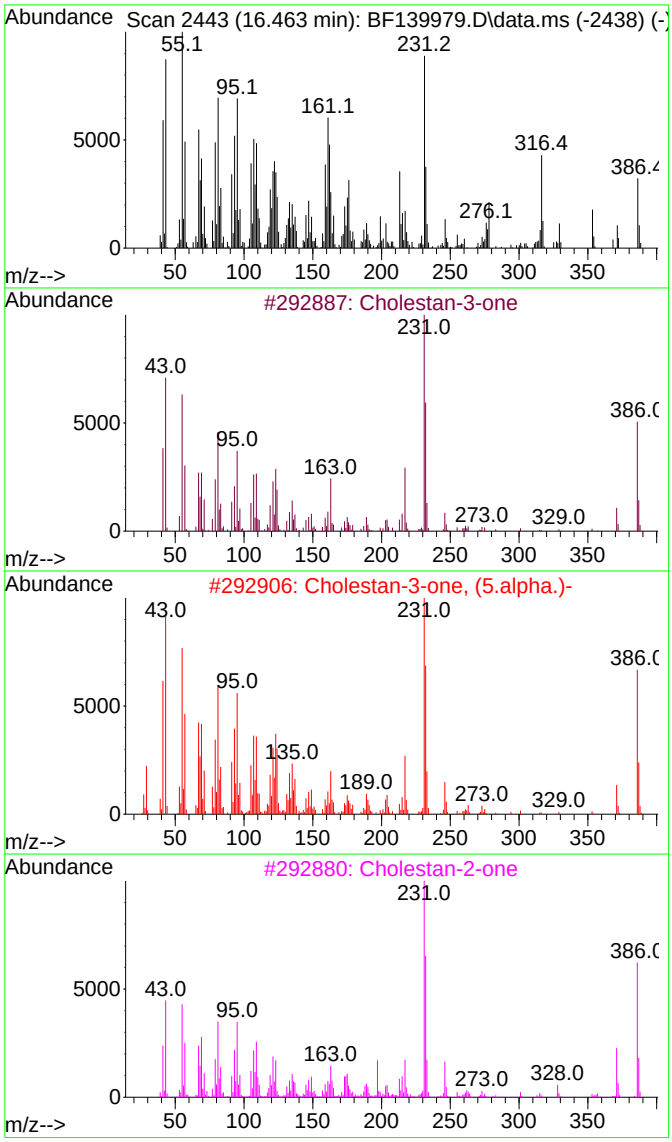
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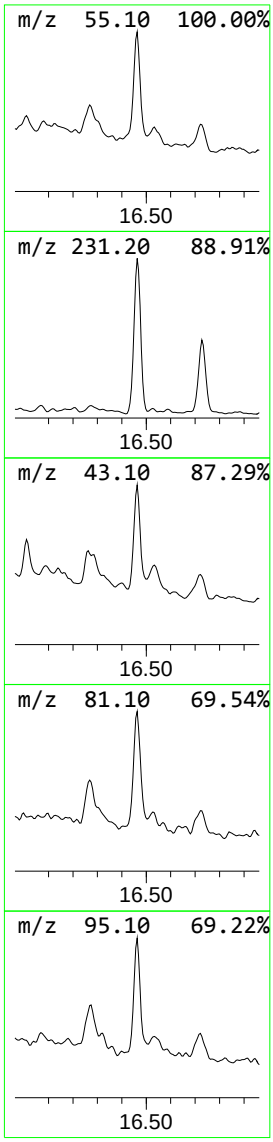
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Peak Number 18 Cholestan-3-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.462	7.25 ng	336317	Perylene-d12	15.533

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholestan-3-one	386	C27H46O	015600-08-5	90
2	Cholestan-3-one, (5.alpha.)-	386	C27H46O	000566-88-1	90
3	Cholestan-2-one	386	C27H46O	1010210-43-4	68
4	Cholestan-3-one, (5.beta.)-	386	C27H46O	000601-53-6	43
5	Arnicolide A (isomer 1)	306	C17H22O5	1000495-69-7	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

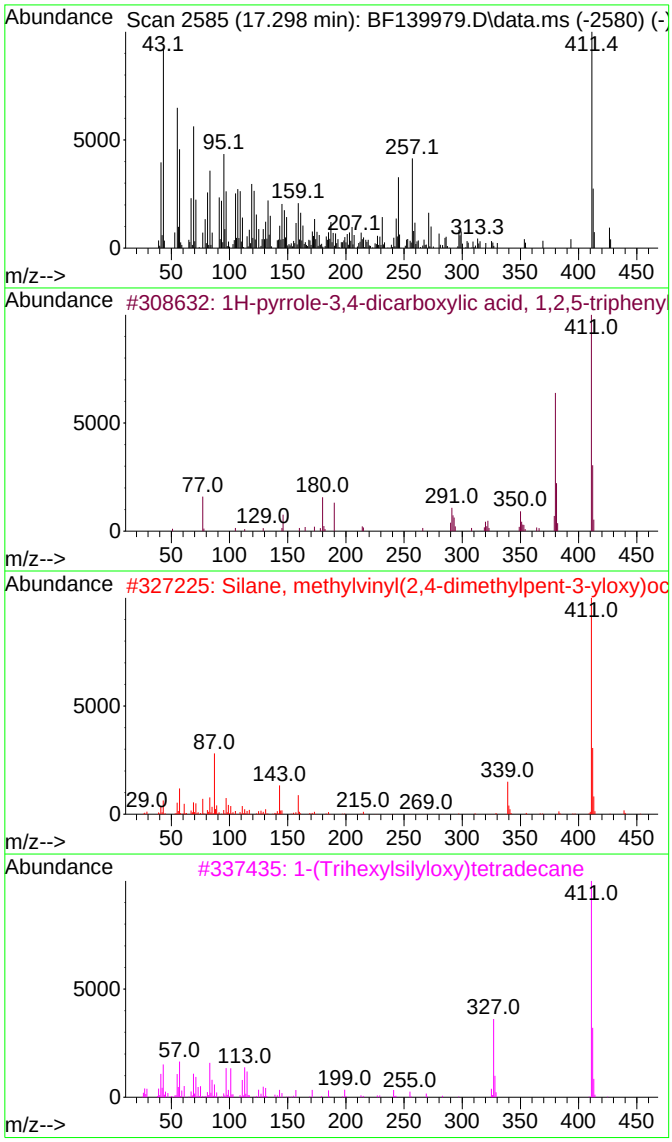
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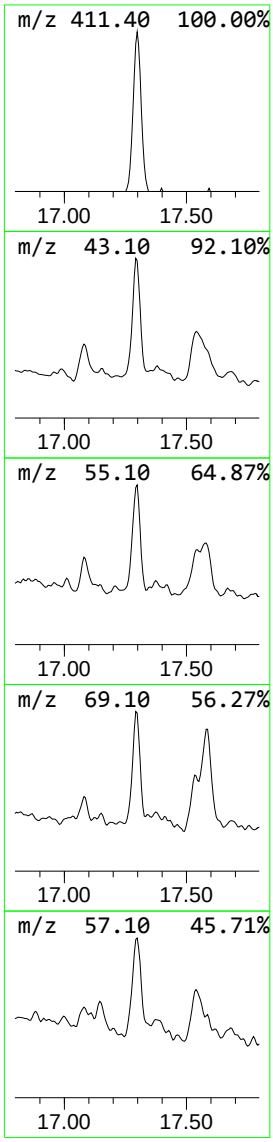
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Peak Number 19 unknown17.298 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.298	6.95 ng	322215	Perylene-d12	15.533

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-pyrrole-3,4-dicarboxylic acid...	411	C26H21NO4	1000399-06-9	27
2	Silane, methylvinyl(2,4-dimethyl...	454	C28H58O2Si	1010416-92-1	27
3	1-(Trihexylsilyloxy)tetradecane	497	C32H68OSi	1000308-32-9	27
4	Tricosanoic acid, TBDMS derivative	468	C29H60O2Si	1000352-40-3	27
5	2,4-Diamino-N-[3,4-dichlorobenzy...	411	C16H15Cl2N5O2S	092144-31-5	27





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

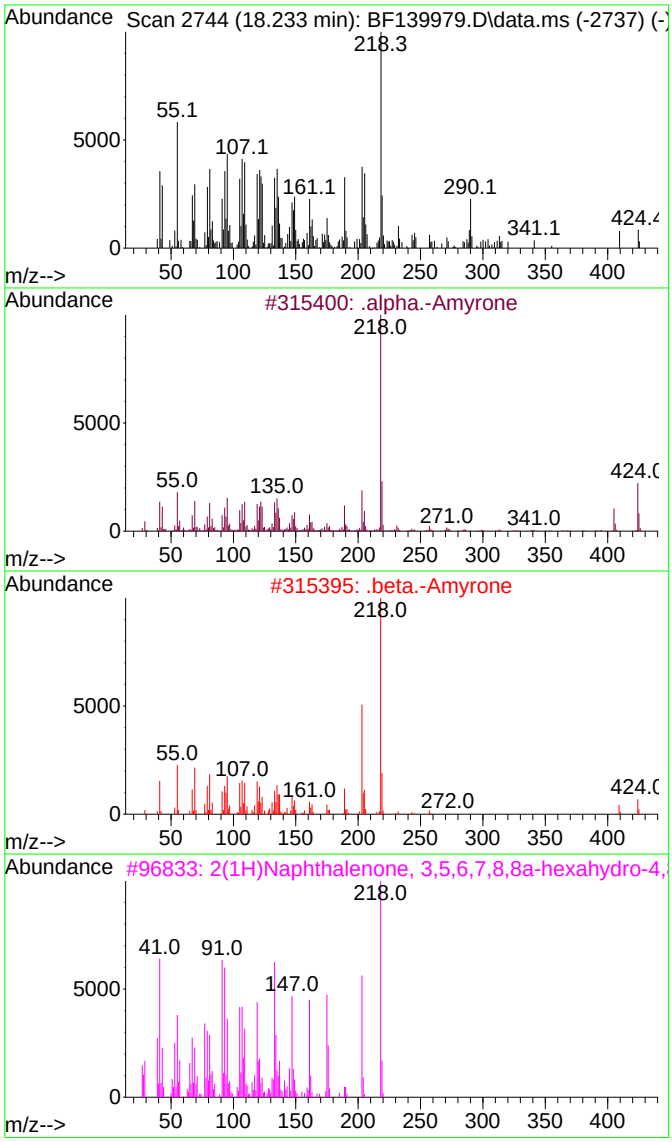
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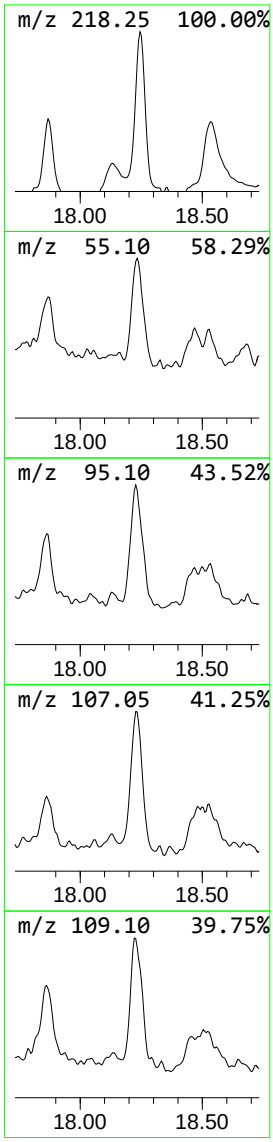
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Peak Number 20 .alpha.-Amyrone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.233	8.89 ng	412017	Perylene-d12	15.533

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Amyrone	424	C30H48O	000638-96-0	97
2	.beta.-Amyrone	424	C30H48O	000638-97-1	87
3	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	72
4	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	64
5	7-Isopropenyl-1,4a-dimethyl-4,4a...	218	C15H22O	000473-08-5	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-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...	2.205	78.9	ng	3596290	1	6.887	911517	20.0
Naphthalene, 2-...	9.439	11.1	ng	723120	3	9.928	1301200	20.0
Naphthalene, 2,...	9.510	9.9	ng	647111	3	9.928	1301200	20.0
Naphthalene, 2,...	9.581	15.2	ng	988490	3	9.928	1301200	20.0
Naphthalene, 1,...	9.698	7.9	ng	516809	3	9.928	1301200	20.0
Benzophenone	10.634	10.9	ng	712153	3	9.928	1301200	20.0
unknown10.839	10.839	7.3	ng	347836	4	11.410	959149	20.0
9H-Fluorene, 1-...	11.016	8.2	ng	394317	4	11.410	959149	20.0
Dibenzothiophene	11.304	7.9	ng	380348	4	11.410	959149	20.0
Phenanthrene, 2...	11.916	13.9	ng	667700	4	11.410	959149	20.0
Phenanthrene, 1...	11.939	16.1	ng	774649	4	11.410	959149	20.0
Anthracene, 2-m...	11.986	7.9	ng	379886	4	11.410	959149	20.0
1H-1,2,4-Triazo...	12.028	32.4	ng	1553180	4	11.410	959149	20.0
Phenanthrene, 2...	12.463	10.4	ng	499821	4	11.410	959149	20.0
Indeno[2,1-a]in...	12.498	9.6	ng	462255	4	11.410	959149	20.0
Benzene, 1,1'-(...	12.722	8.6	ng	413506	4	11.410	959149	20.0
Fluoranthene, 2...	13.180	7.4	ng	739695	5	14.051	1995550	20.0
Cholestan-3-one	16.462	7.3	ng	336317	6	15.533	927302	20.0
unknown17.298	17.298	7.0	ng	322215	6	15.533	927302	20.0
.alpha.-Amyrone	18.233	8.9	ng	412017	6	15.533	927302	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Time: Oct 24 01:12:16 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

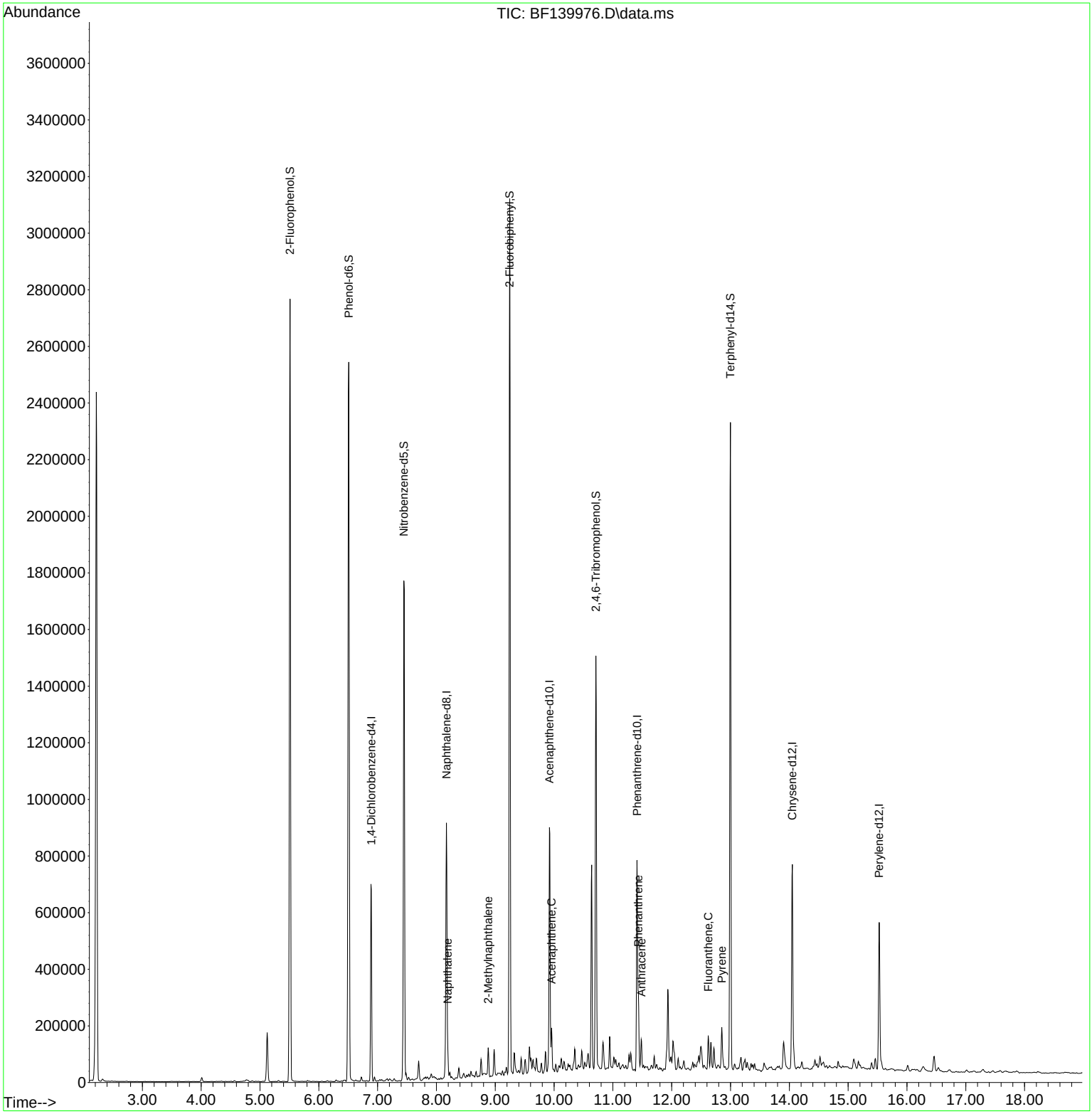
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	146113	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	542139	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	263407	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	381099	20.000	ng	0.00
76) Chrysene-d12	14.051	240	321287	20.000	ng	0.00
86) Perylene-d12	15.527	264	306800	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1058310	113.390	ng	0.01
7) Phenol-d6	6.510	99	1308970	108.285	ng	0.00
23) Nitrobenzene-d5	7.445	82	819717	83.801	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	251339	102.012	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1364688	85.625	ng	0.00
79) Terphenyl-d14	12.998	244	1135897	57.610	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.192	128	56302	2.014	ng	99
37) 2-Methylnaphthalene	8.881	142	37673	2.200	ng	98
52) Acenaphthene	9.957	154	43848	3.175	ng	98
71) Phenanthrene	11.433	178	135628	7.534	ng	99
72) Anthracene	11.486	178	43687	2.487	ng	99
75) Fluoranthene	12.622	202	61855	3.399	ng	100
78) Pyrene	12.851	202	81427	2.895	ng	99

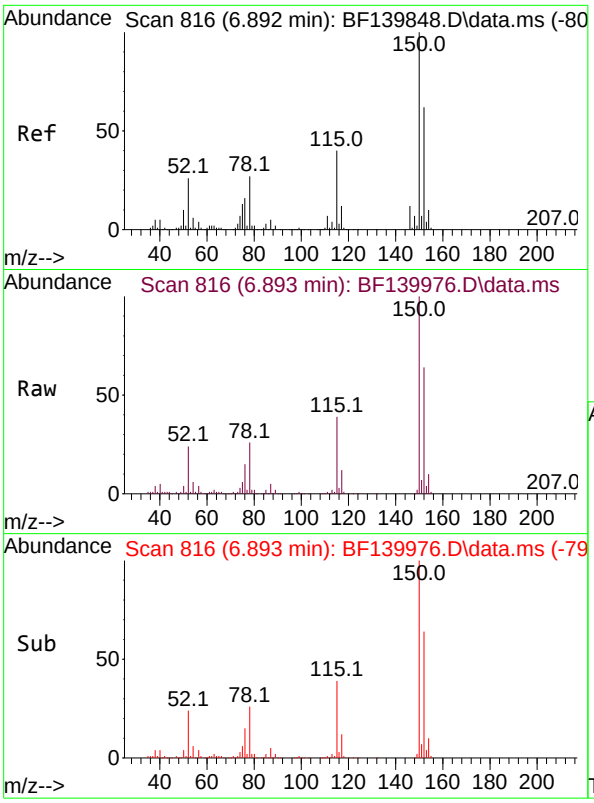
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Time: Oct 24 01:12:16 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



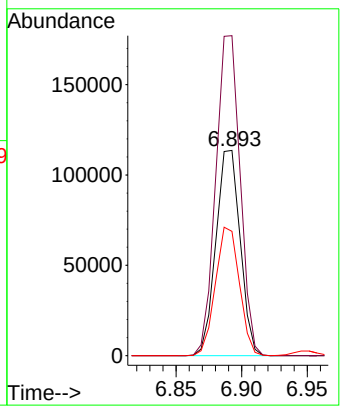


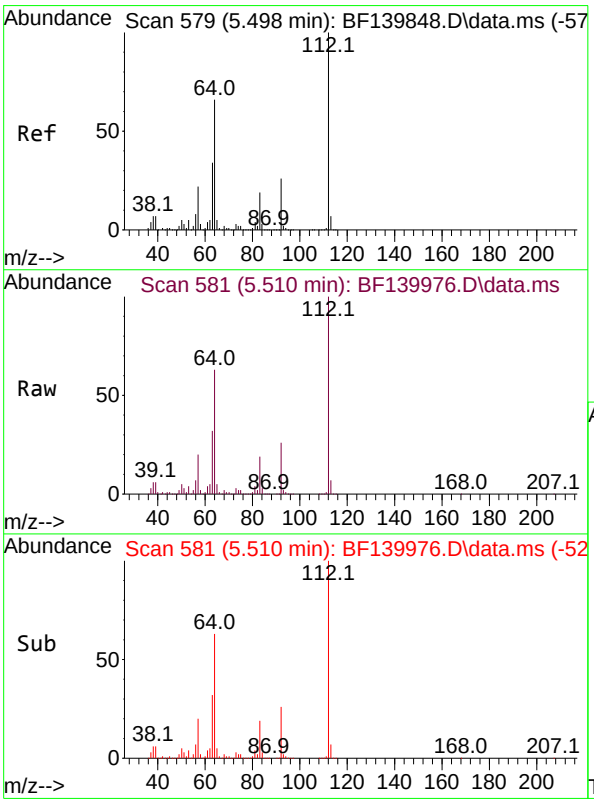
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 81
Delta R.T. 0.001 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:152 Resp: 146113

Ion	Ratio	Lower	Upper
152	100		
150	155.9	130.2	195.2
115	60.5	51.4	77.2

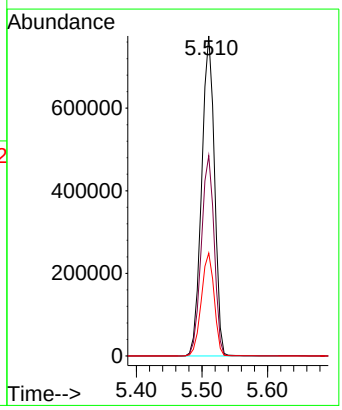


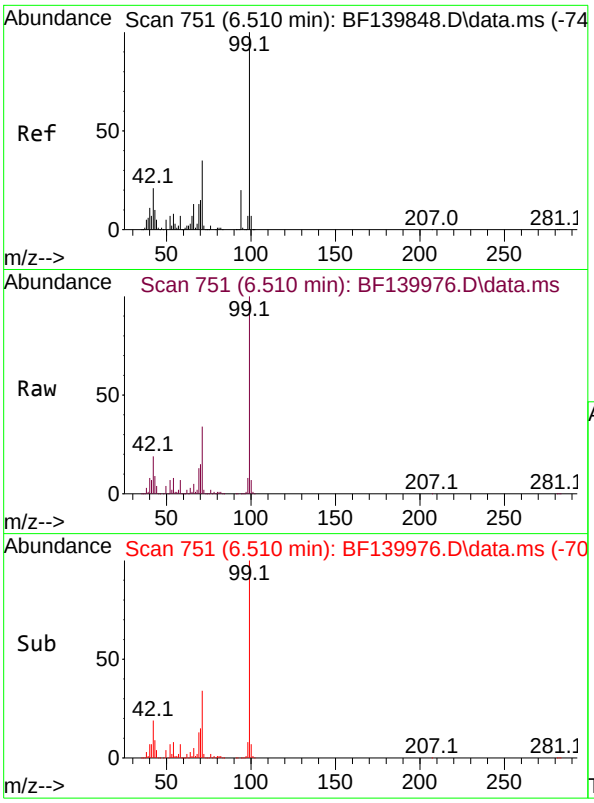


#5
2-Fluorophenol
Concen: 113.390 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:112 Resp: 1058310

Ion	Ratio	Lower	Upper
112	100		
64	62.6	53.0	79.6
63	32.2	27.0	40.4



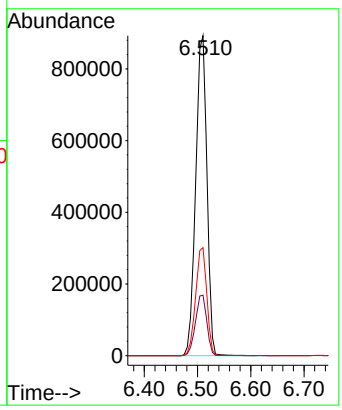


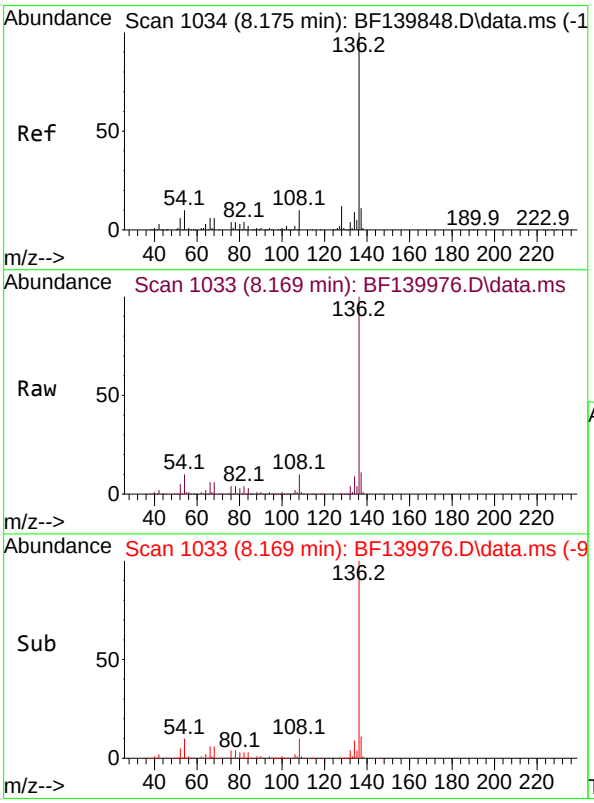
#7
Phenol-d6
Concen: 108.285 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion: 99 Resp: 1308970

Ion	Ratio	Lower	Upper
99	100		
42	18.9	16.7	25.1
71	33.7	27.7	41.5

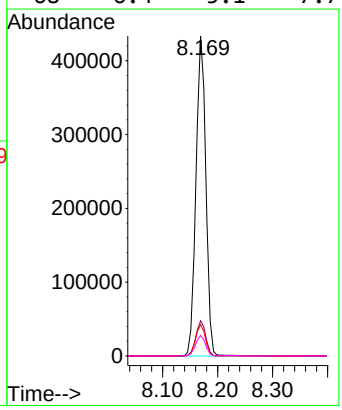


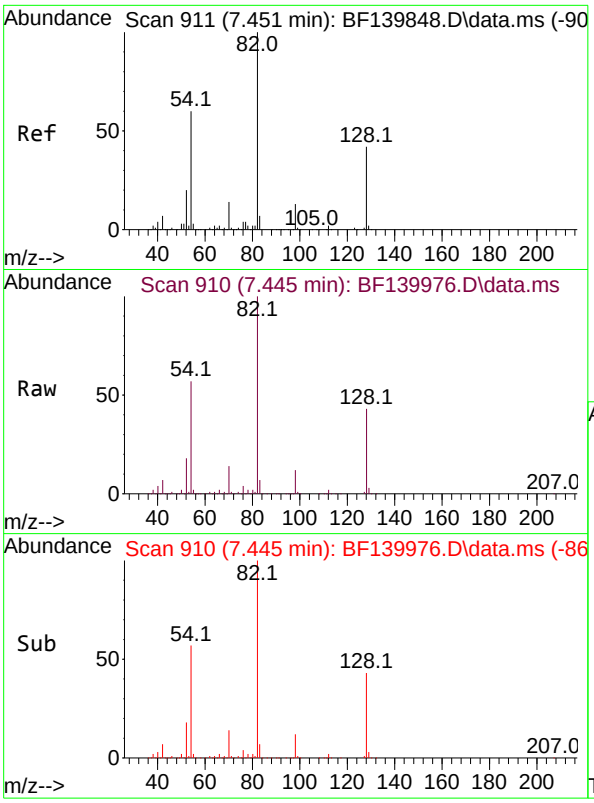


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:136 Resp: 542139

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	9.8	8.4	12.6
68	6.4	5.1	7.7



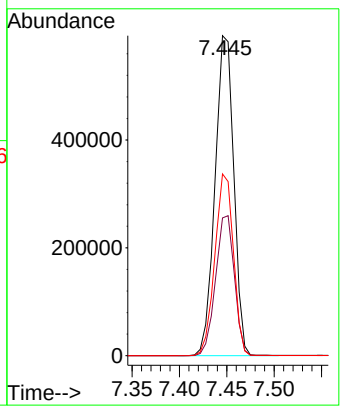


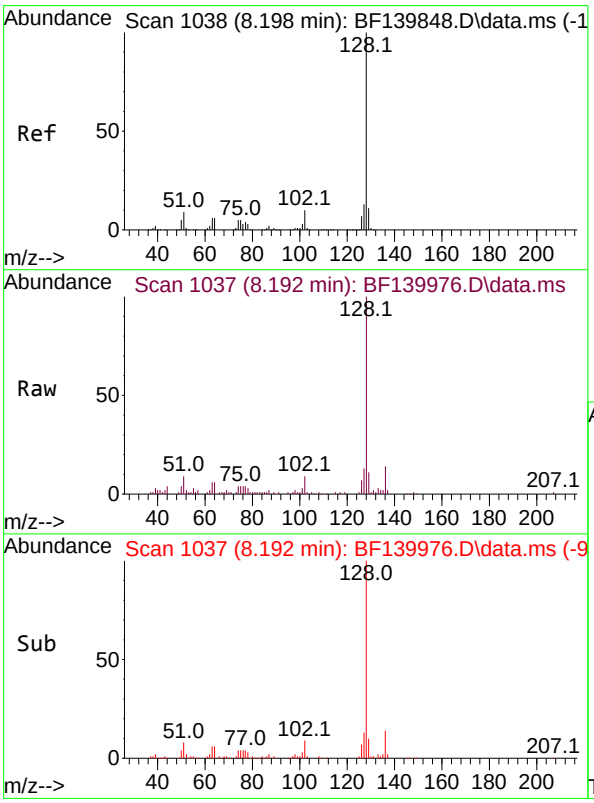
#23
Nitrobenzene-d5
Concen: 83.801 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion: 82 Resp: 819717

Ion	Ratio	Lower	Upper
82	100		
128	43.1	33.4	50.0
54	56.8	47.8	71.8

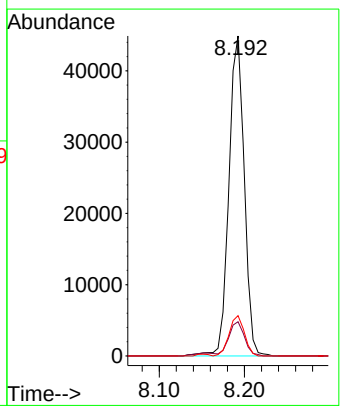


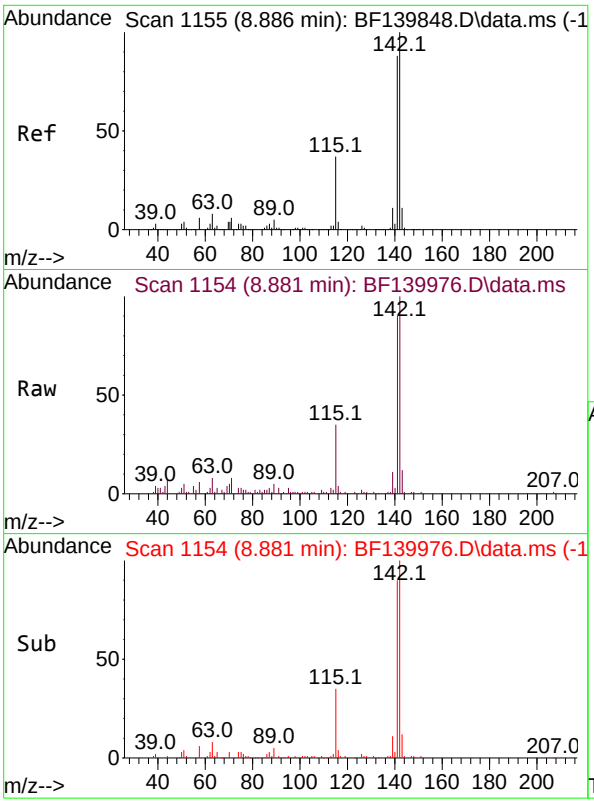


#31
Naphthalene
Concen: 2.014 ng
RT: 8.192 min Scan# 1037
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:128 Resp: 56302

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.9	13.3
127	12.6	10.6	16.0



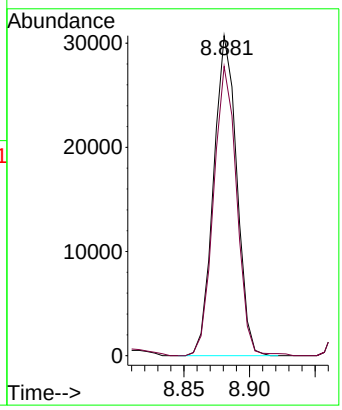


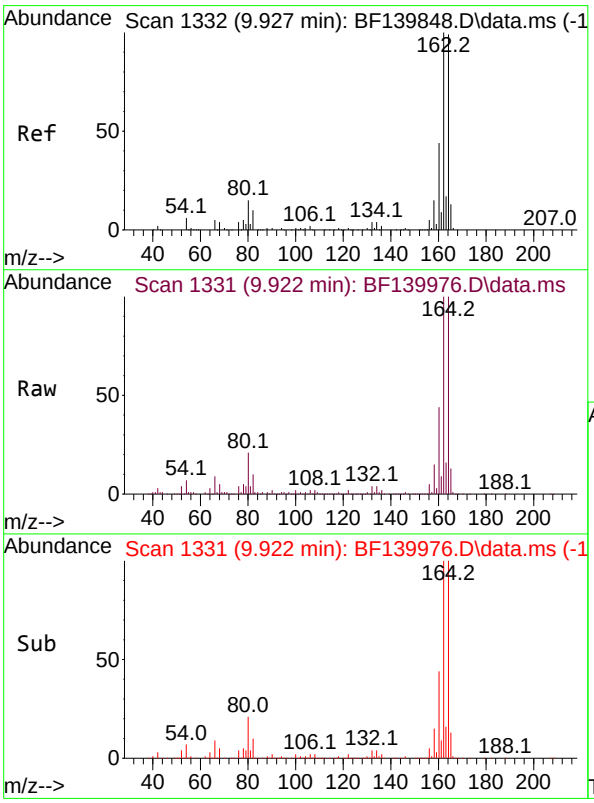
#37
2-Methylnaphthalene
Concen: 2.200 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:142 Resp: 37673

Ion	Ratio	Lower	Upper
142	100		
141	90.4	70.8	106.2

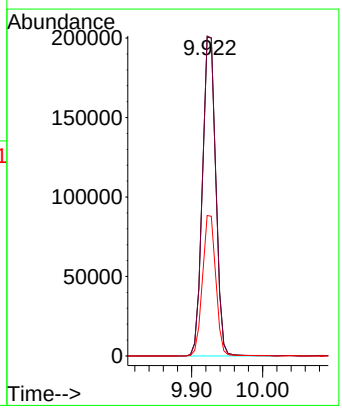


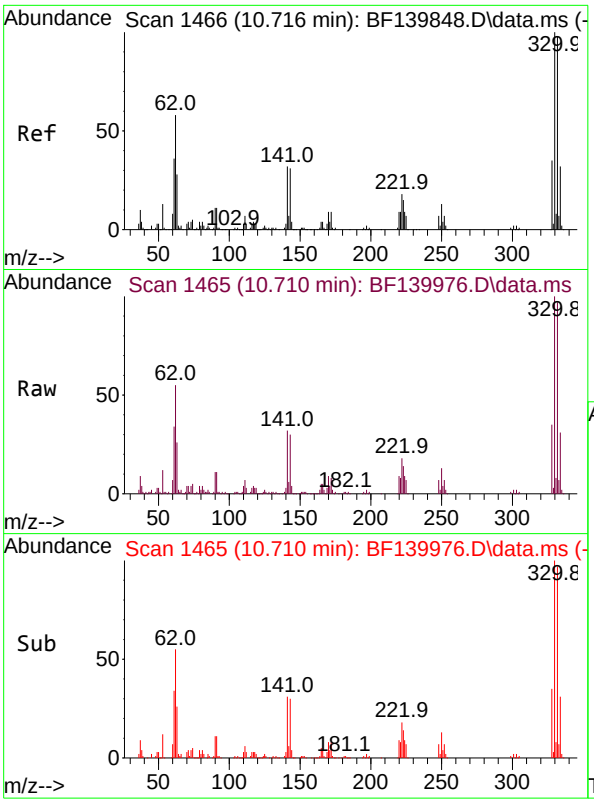


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:164 Resp: 263407

Ion	Ratio	Lower	Upper
164	100		
162	100.3	81.0	121.4
160	44.0	35.4	53.0



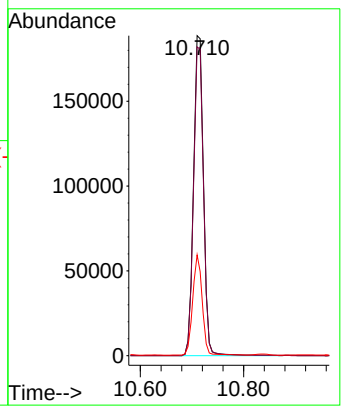


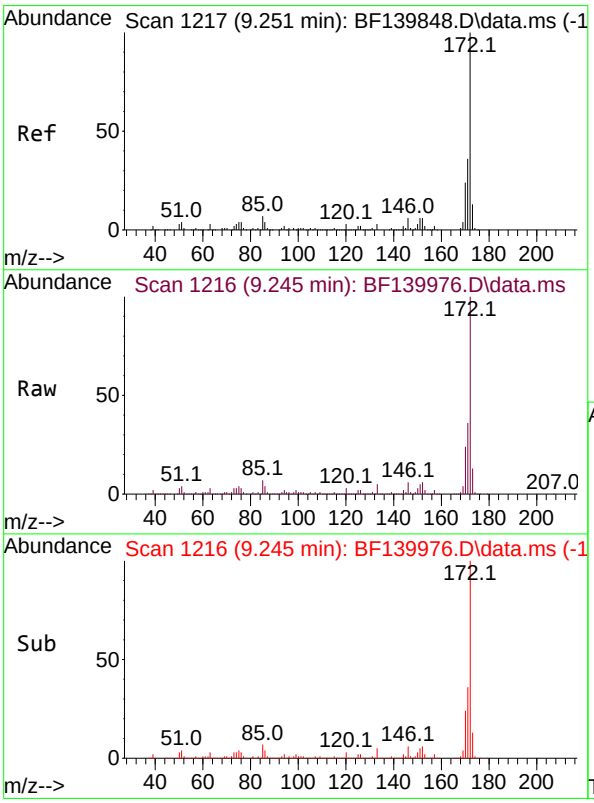
#42
2,4,6-Tribromophenol
Concen: 102.012 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:330 Resp: 251339

Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.1	117.1
141	30.0	26.6	39.8

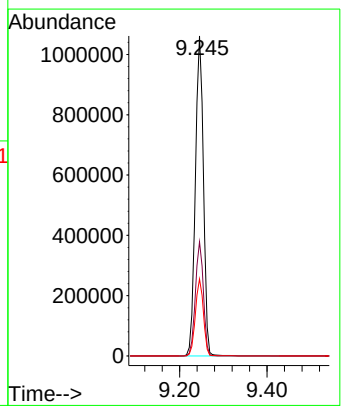


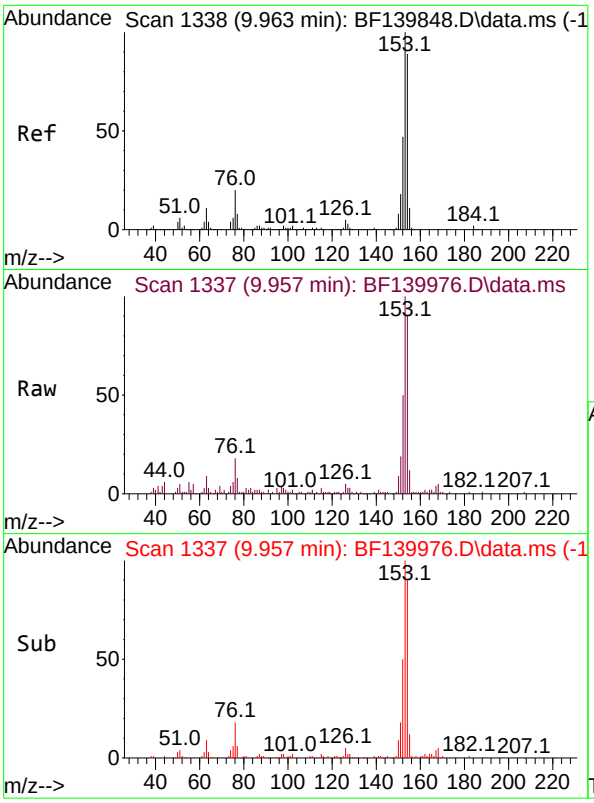


#45
2-Fluorobiphenyl
Concen: 85.625 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:172 Resp: 1364688

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	24.1	19.1	28.7



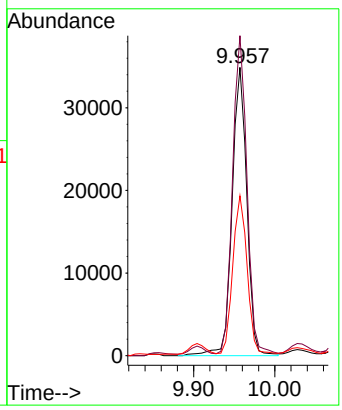


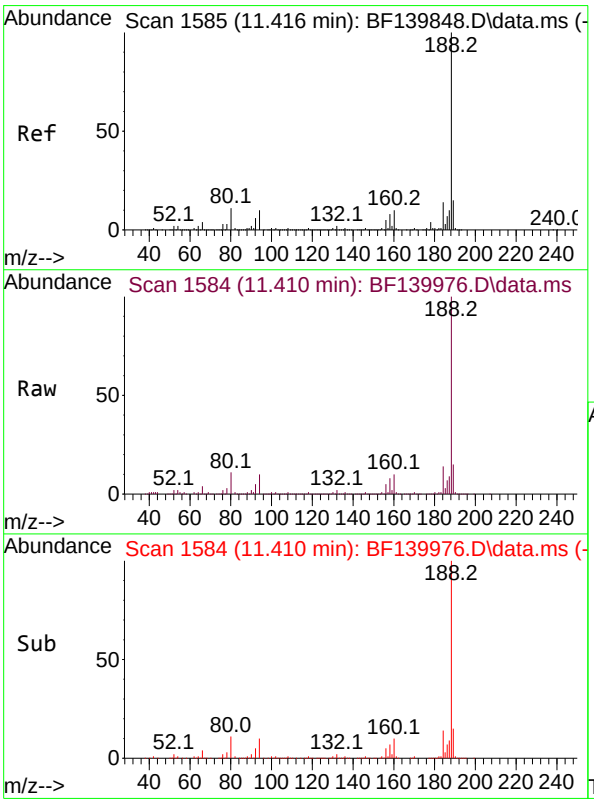
#52
Acenaphthene
Concen: 3.175 ng
RT: 9.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:154 Resp: 43848

Ion	Ratio	Lower	Upper
154	100		
153	111.0	89.8	134.6
152	55.5	42.4	63.6

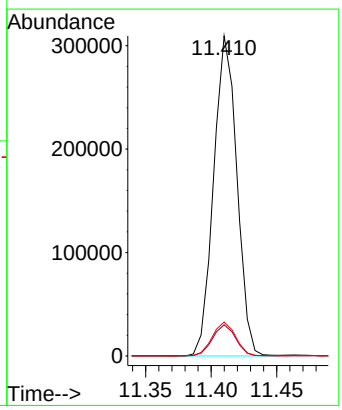


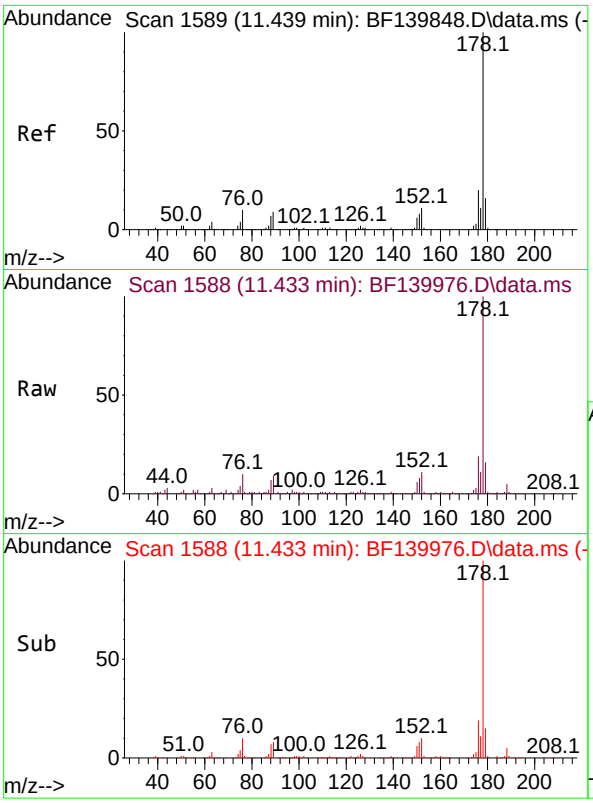


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:188 Resp: 381099

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.9	11.9
80	10.6	9.0	13.4



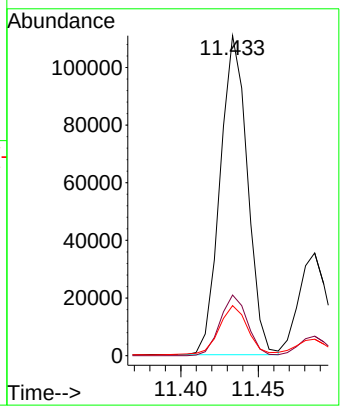


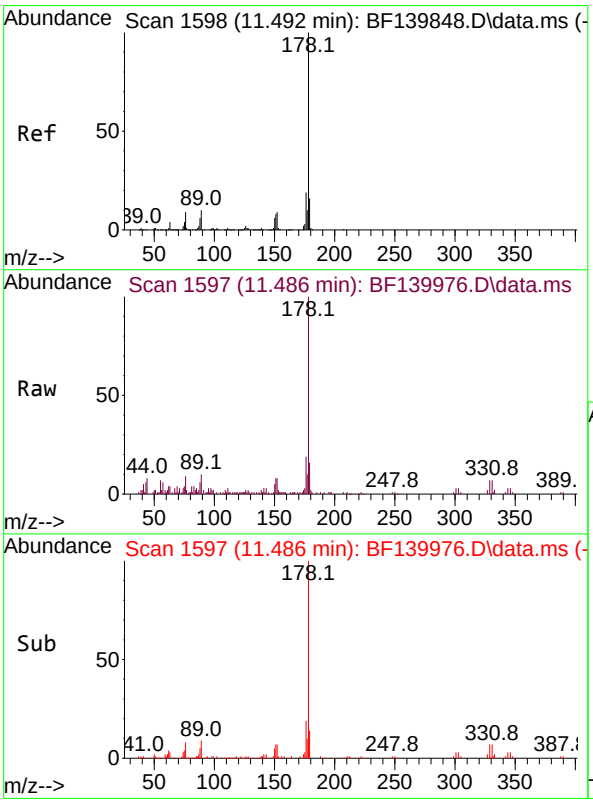
#71
Phenanthrene
Concen: 7.534 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:178 Resp: 135628

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.6
179	15.6	12.6	18.8

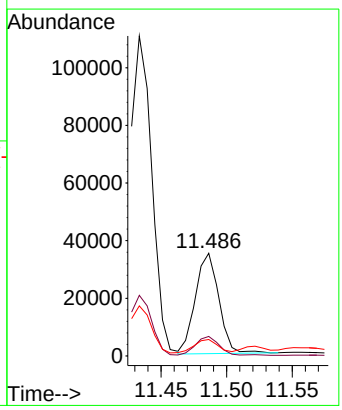


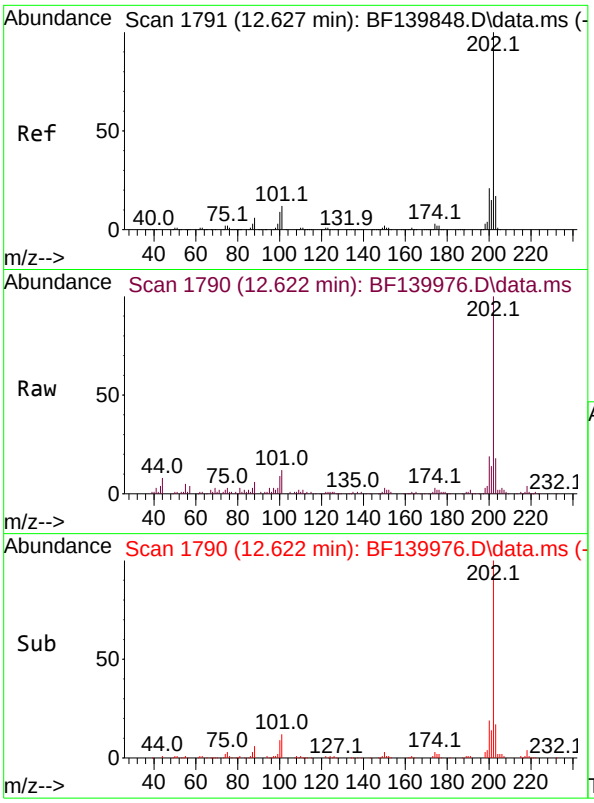


#72
Anthracene
Concen: 2.487 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:178 Resp: 43687

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	16.0	12.4	18.6



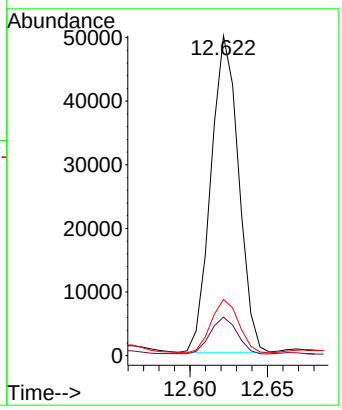


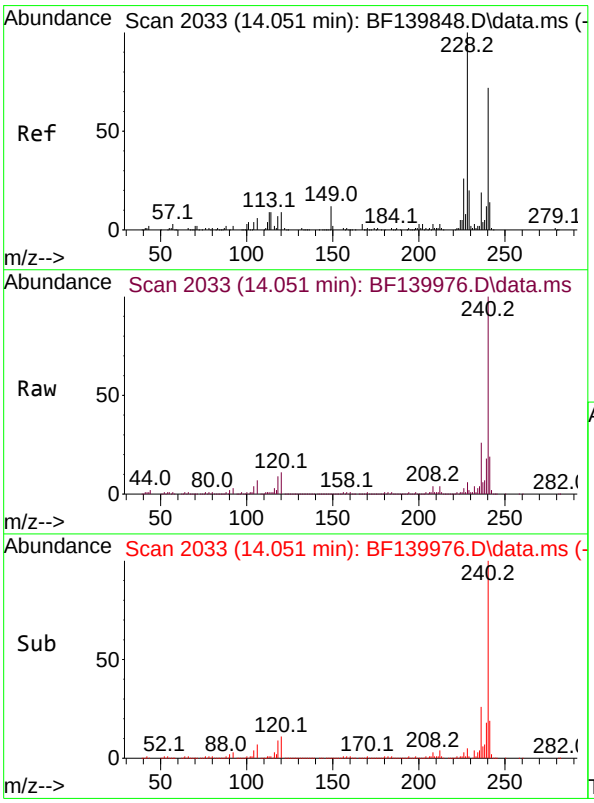
#75
Fluoranthene
Concen: 3.399 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:202 Resp: 61855

Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	31.9
203	17.6	0.0	37.5

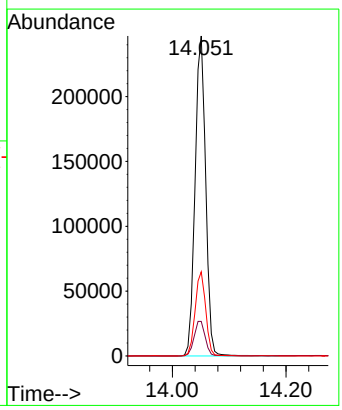


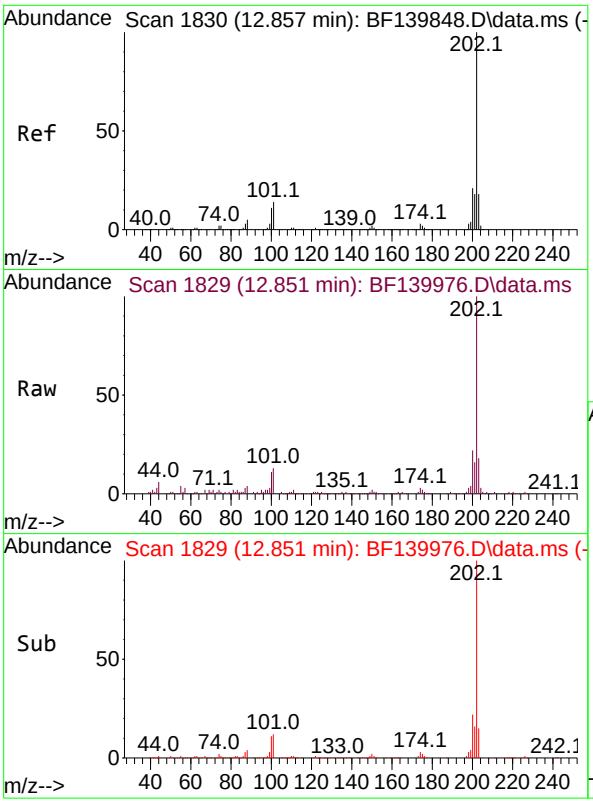


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:240 Resp: 321287

Ion	Ratio	Lower	Upper
240	100		
120	10.8	9.4	14.2
236	26.3	20.9	31.3



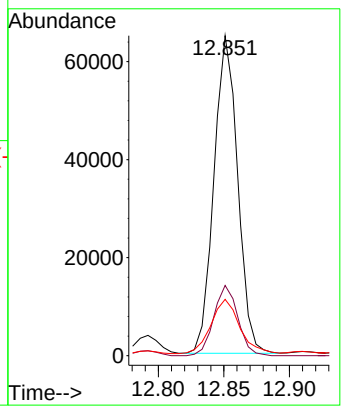


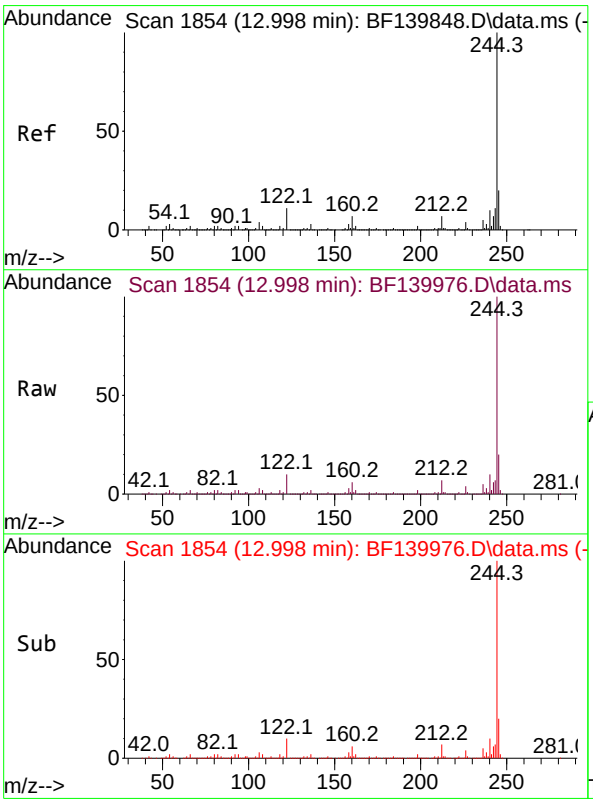
#78
Pyrene
Concen: 2.895 ng
RT: 12.851 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:202 Resp: 81427

Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.2	25.8
203	17.6	14.2	21.4

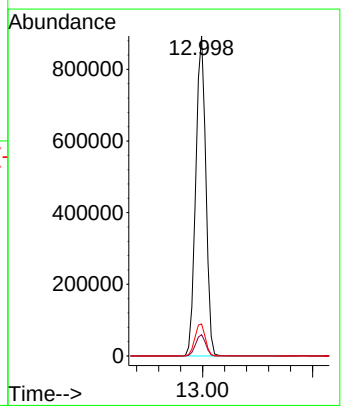


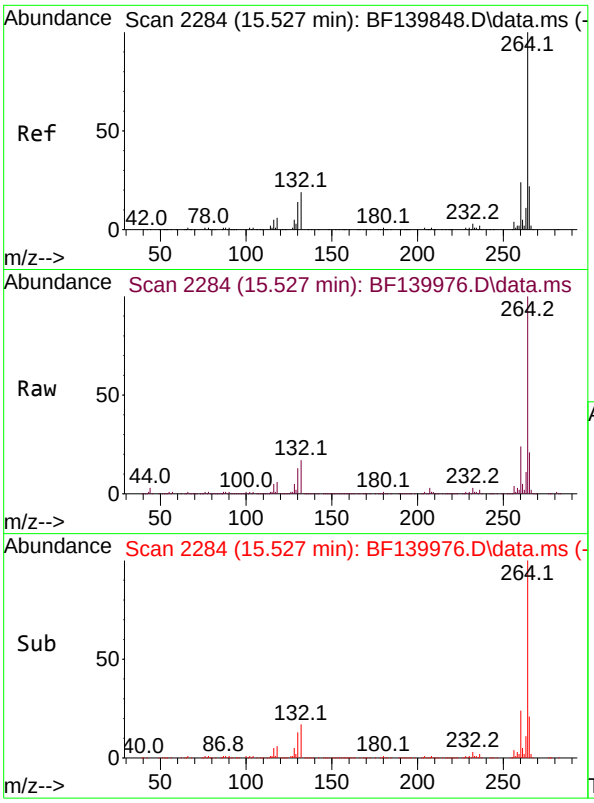


#79
Terphenyl-d14
Concen: 57.610 ng
RT: 12.998 min Scan# 1854
Delta R.T. 0.000 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:244 Resp: 1135897

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.7	8.5
122	10.0	8.6	13.0



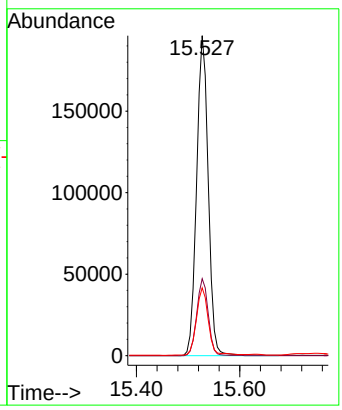


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:264 Resp: 306800

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	21.2	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-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: BF139976.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.216	10	21	28	rVB	2431762	4065405	100.00%	11.478%
2	5.122	506	515	528	rVB	173047	278004	6.84%	0.785%
3	5.510	574	581	586	rBV	2764132	3777013	92.91%	10.664%
4	6.510	743	751	756	rBV	2540938	3732051	91.80%	10.537%
5	6.887	810	815	821	rVB	695541	890804	21.91%	2.515%
6	7.445	901	910	915	rBV	1767329	2475355	60.89%	6.989%
7	7.698	939	953	961	rVB2	69390	113349	2.79%	0.320%
8	8.169	1020	1033	1041	rBV	905543	1323958	32.57%	3.738%
9	8.381	1064	1069	1074	rBV3	35403	50789	1.25%	0.143%
10	8.757	1129	1133	1137	rBV	60558	75631	1.86%	0.214%
11	8.881	1150	1154	1158	rVB	102811	124666	3.07%	0.352%
12	8.981	1166	1171	1178	rBV	94201	128383	3.16%	0.362%
13	9.245	1210	1216	1221	rBV	3092076	3934185	96.77%	11.107%
14	9.322	1225	1229	1238	rBV2	73189	122086	3.00%	0.345%
15	9.439	1245	1249	1255	rVB	57361	80064	1.97%	0.226%
16	9.510	1255	1261	1265	rBV	51493	84760	2.08%	0.239%
17	9.581	1268	1273	1276	rVV	92135	141082	3.47%	0.398%
18	9.645	1280	1284	1290	rVV2	44412	85400	2.10%	0.241%
19	9.698	1290	1293	1299	rVB2	47020	66063	1.63%	0.187%
20	9.786	1304	1308	1312	rVB	35749	49364	1.21%	0.139%
21	9.851	1313	1319	1324	rBV	75758	113694	2.80%	0.321%
22	9.922	1324	1331	1335	rBV	862177	1170242	28.79%	3.304%
23	9.957	1335	1337	1341	rVB	146519	151563	3.73%	0.428%
24	10.122	1361	1365	1369	rVB3	35872	49949	1.23%	0.141%
25	10.169	1370	1373	1379	rVB3	29810	44269	1.09%	0.125%
26	10.351	1397	1404	1408	rBV2	74149	121830	3.00%	0.344%
27	10.469	1421	1424	1430	rVB	64682	87044	2.14%	0.246%
28	10.575	1437	1442	1447	rVV2	54490	102080	2.51%	0.288%
29	10.639	1448	1453	1459	rVV	721046	924341	22.74%	2.610%
30	10.710	1459	1465	1477	rVV	1460209	1920274	47.23%	5.421%
31	10.833	1481	1486	1493	rVB2	95483	164008	4.03%	0.463%
32	10.945	1501	1505	1510	rBV	112652	138645	3.41%	0.391%
33	11.016	1513	1517	1520	rVV2	36296	53467	1.32%	0.151%
34	11.275	1557	1561	1564	rBV	47692	69222	1.70%	0.195%
35	11.304	1564	1566	1573	rVB2	60732	78127	1.92%	0.221%
36	11.410	1579	1584	1592	rBV2	743655	1255857	30.89%	3.546%

Sample Results: **BF139976.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-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

37	11.480	1592	1596	1600	rVB	100303	136514	3.36%	0.385%
38	11.704	1630	1634	1638	rBV2	42617	50748	1.25%	0.143%
39	11.933	1665	1673	1679	rBV3	283289	491754	12.10%	1.388%
40	12.022	1685	1688	1697	rVB	100512	208224	5.12%	0.588%
41	12.110	1699	1703	1707	rBV2	37099	50042	1.23%	0.141%
42	12.204	1716	1719	1726	rVB2	30332	46614	1.15%	0.132%
43	12.498	1765	1769	1775	rVB4	74975	144103	3.54%	0.407%
44	12.622	1786	1790	1794	rBV	118592	154092	3.79%	0.435%
45	12.669	1794	1798	1803	rVV	92619	129157	3.18%	0.365%
46	12.716	1803	1806	1814	rVB	72759	106036	2.61%	0.299%
47	12.851	1824	1829	1836	rBV	144684	216119	5.32%	0.610%
48	12.998	1848	1854	1862	rVB	2286489	2956436	72.72%	8.347%
49	13.174	1878	1884	1889	rVB	45346	85110	2.09%	0.240%
50	13.245	1889	1896	1899	rBV2	37871	78449	1.93%	0.221%
51	13.280	1900	1902	1910	rVB	27474	42662	1.05%	0.120%
52	13.569	1948	1951	1960	rVB3	22609	43233	1.06%	0.122%
53	13.904	2003	2008	2022	rVB	94163	205404	5.05%	0.580%
54	14.051	2027	2033	2044	rVB	722537	1105543	27.19%	3.121%
55	14.521	2109	2113	2117	rBV3	33965	50114	1.23%	0.141%
56	15.098	2206	2211	2219	rVB	32885	73371	1.80%	0.207%
57	15.463	2268	2273	2278	rVV	37536	57651	1.42%	0.163%
58	15.527	2278	2284	2298	rVB	519712	846010	20.81%	2.389%
59	16.463	2437	2443	2449	rBV2	51720	99288	2.44%	0.280%

Sum of corrected areas: 35419698

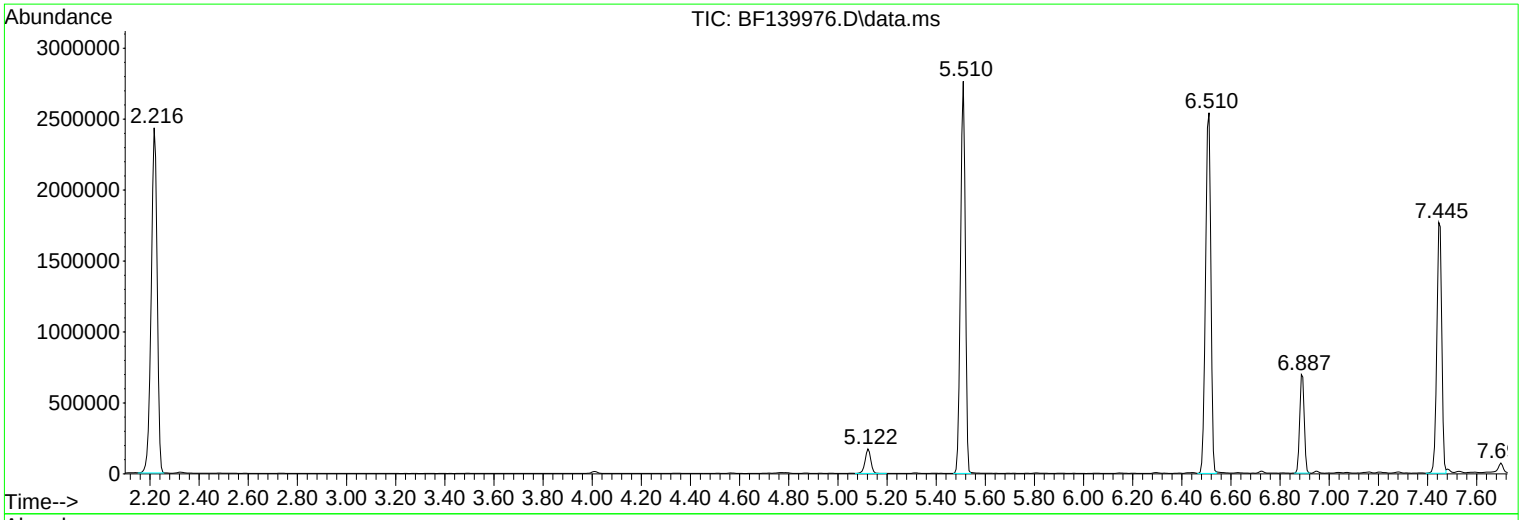
Sample Results: **BF139976.D**

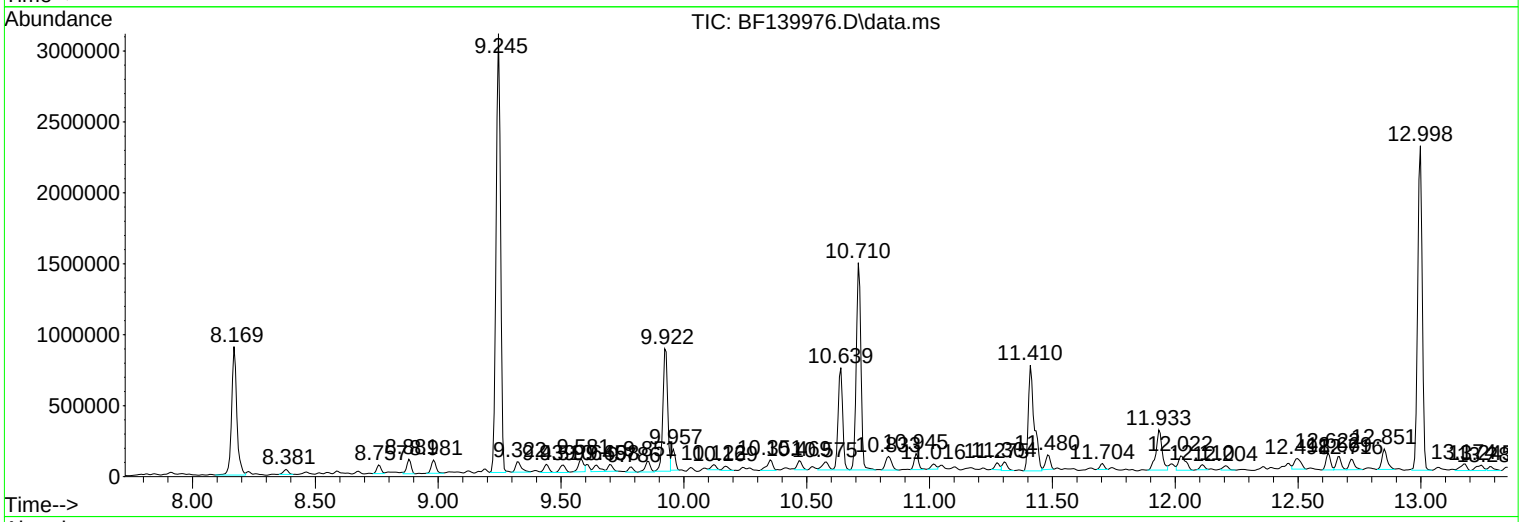
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Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

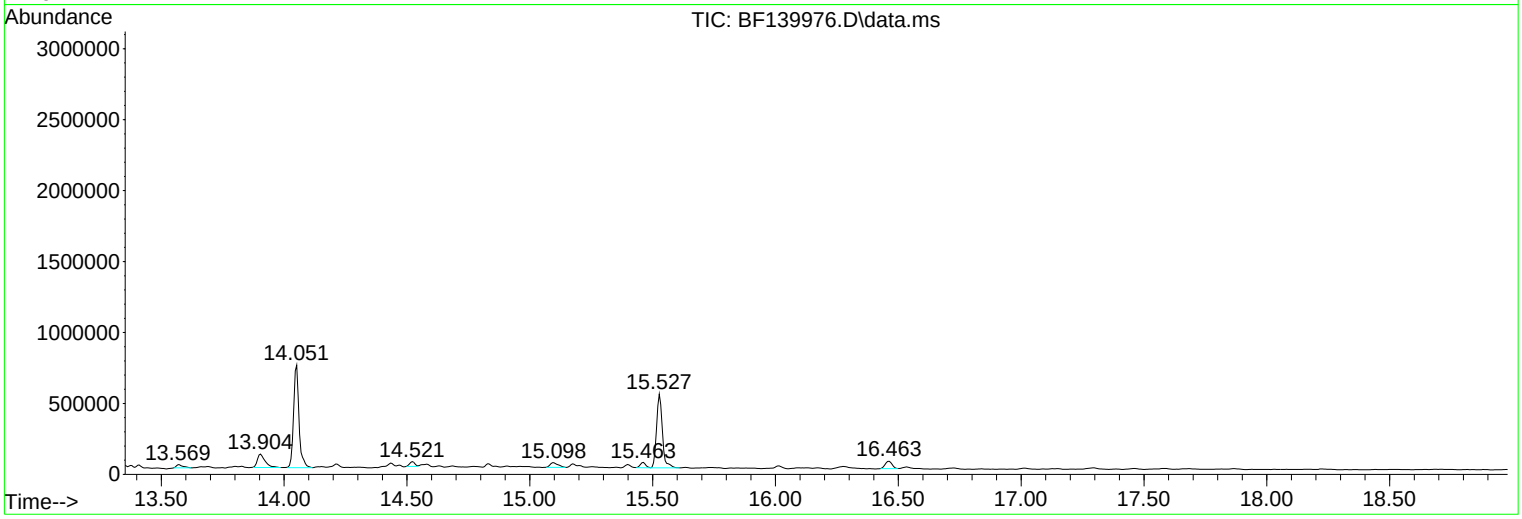
Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

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\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

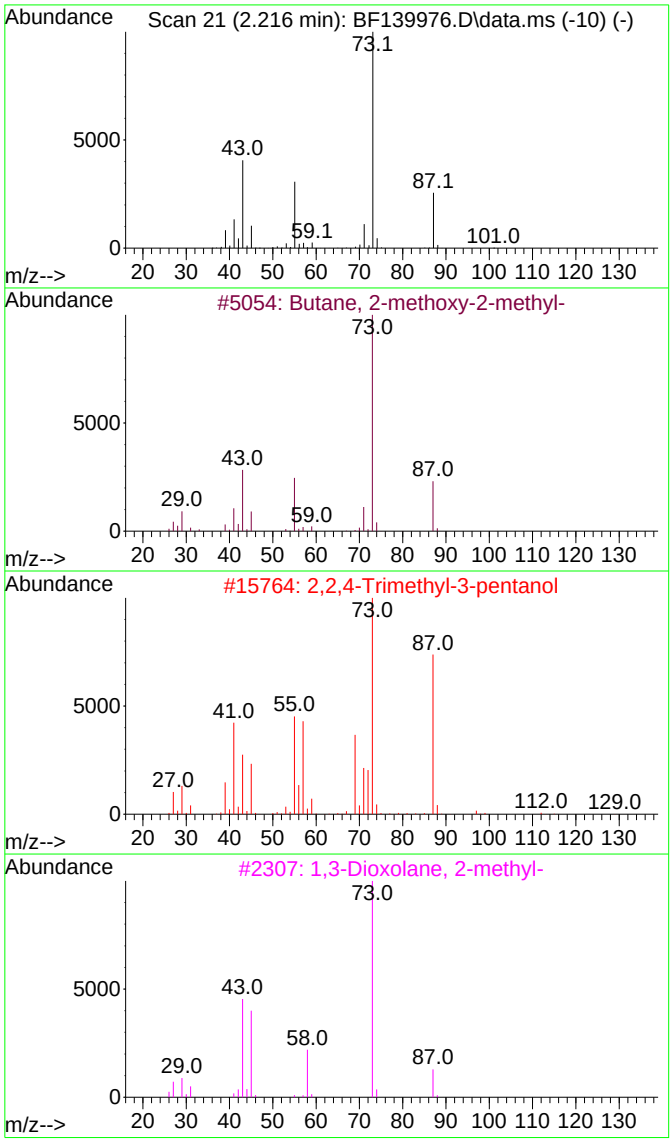
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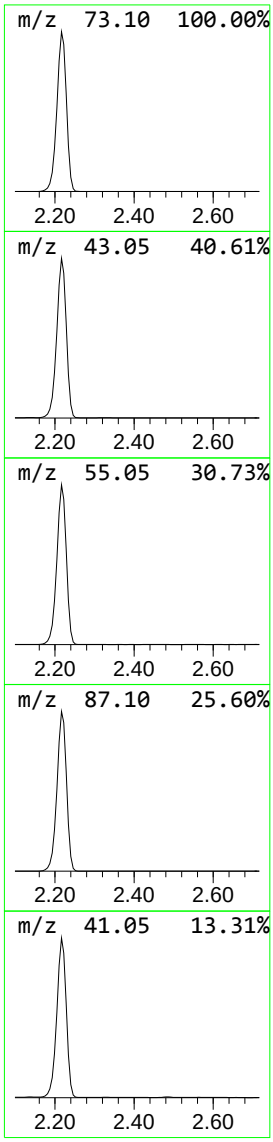
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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.216	91.28 ng	4065410	1,4-Dichlorobenzene-d4	6.893

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	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

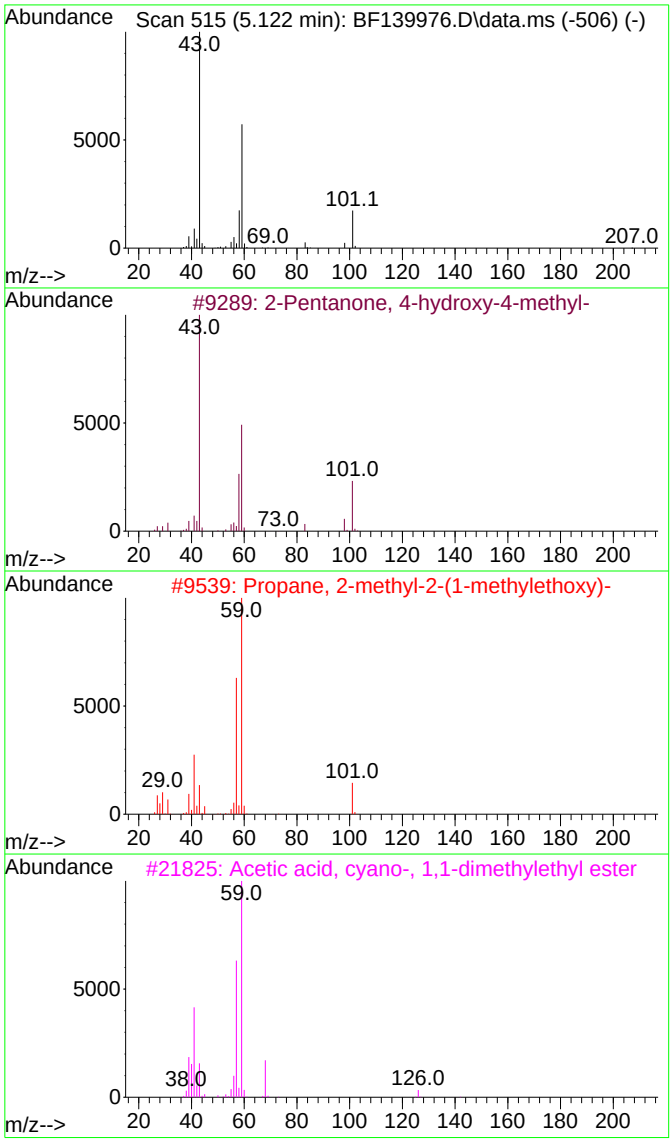
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

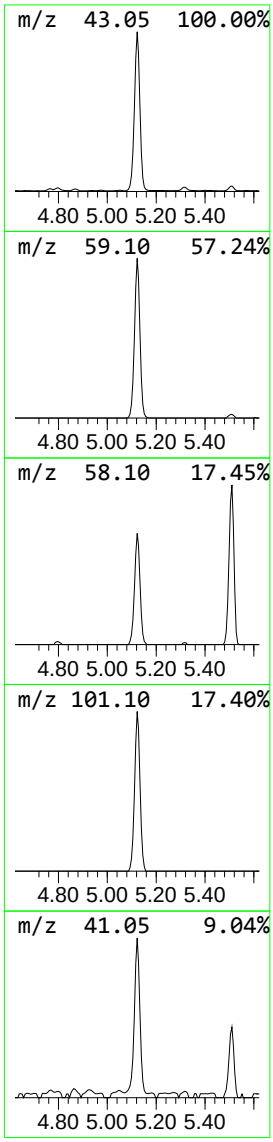
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.122	6.24 ng	278004	1,4-Dichlorobenzene-d4	6.893

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	42
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
4	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
5	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 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

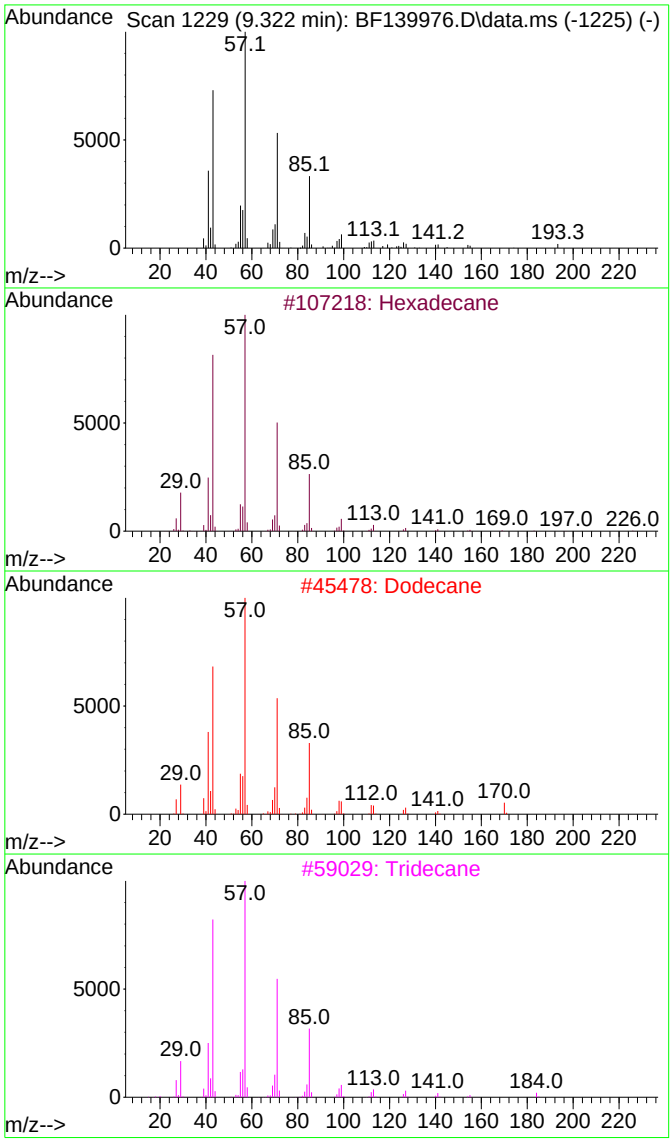
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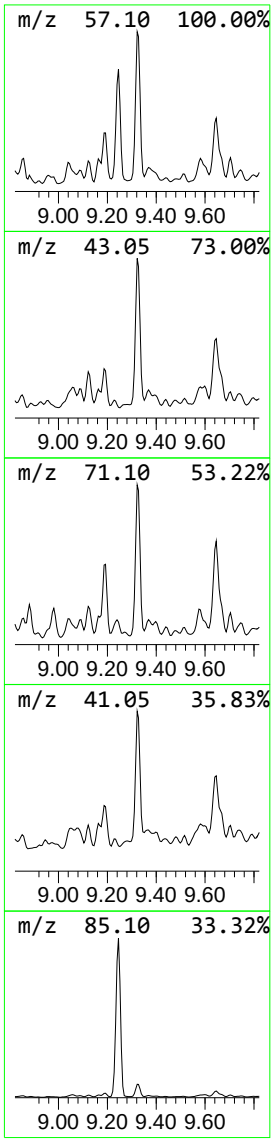
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Peak Number 3 Hexadecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.322	2.09 ng	122086	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	90
2	Dodecane	170	C12H26	000112-40-3	90
3	Tridecane	184	C13H28	000629-50-5	86
4	Tetradecane	198	C14H30	000629-59-4	86
5	Pentadecane	212	C15H32	000629-62-9	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

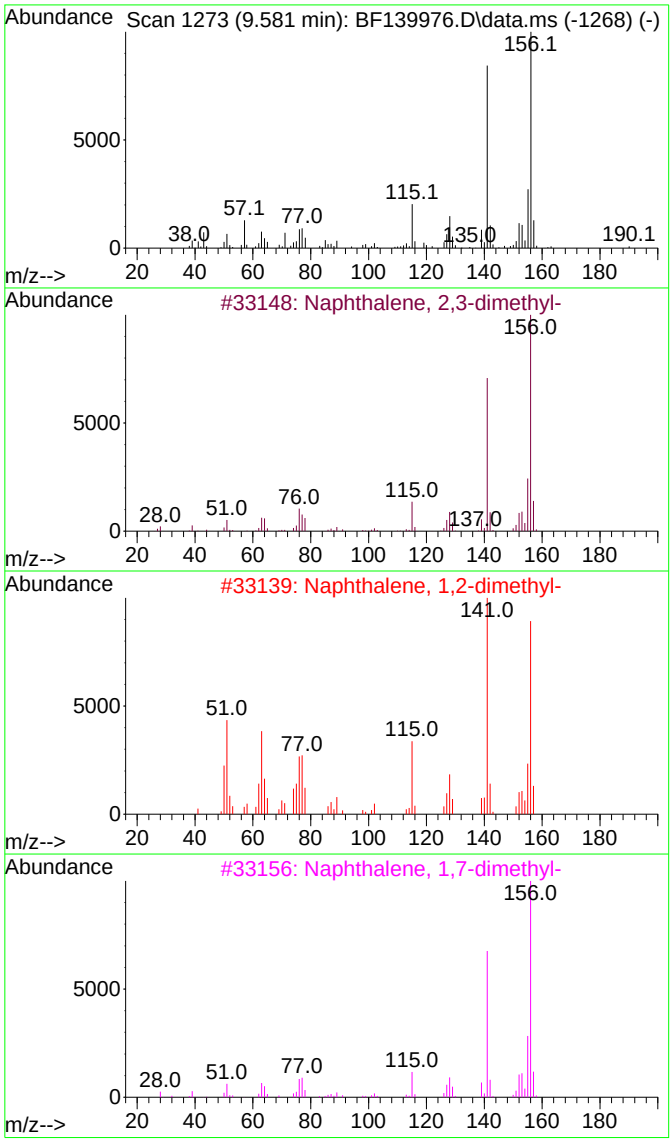
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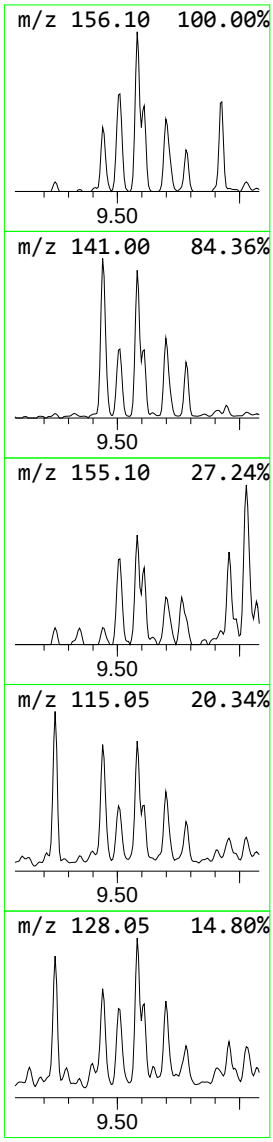
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Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.581	2.41 ng	141082	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

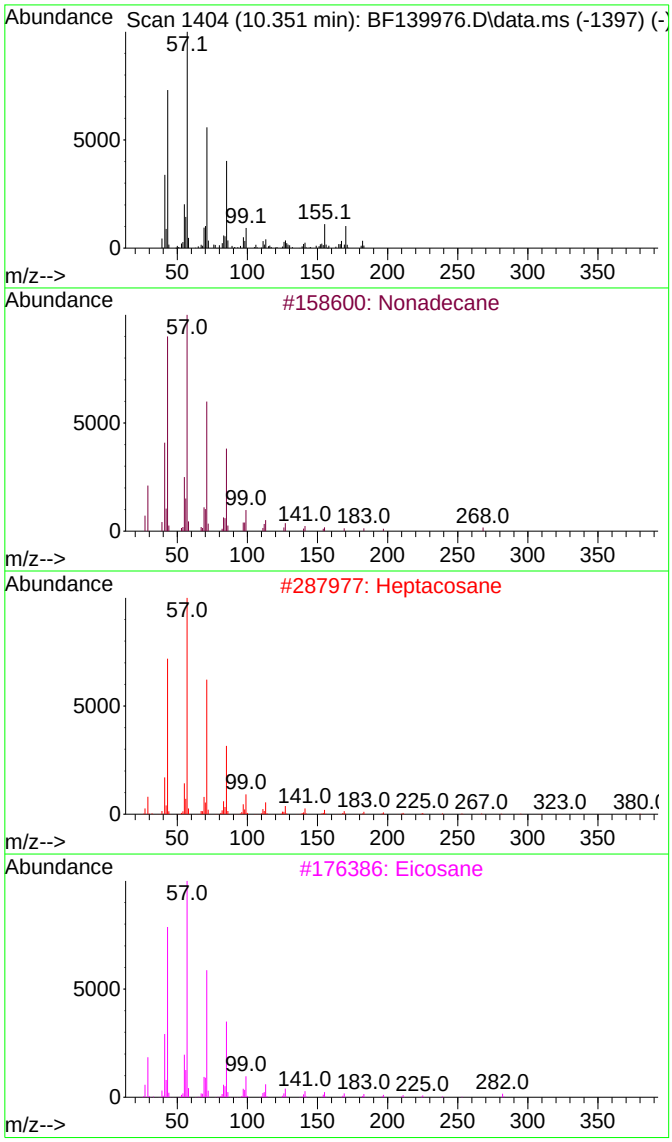
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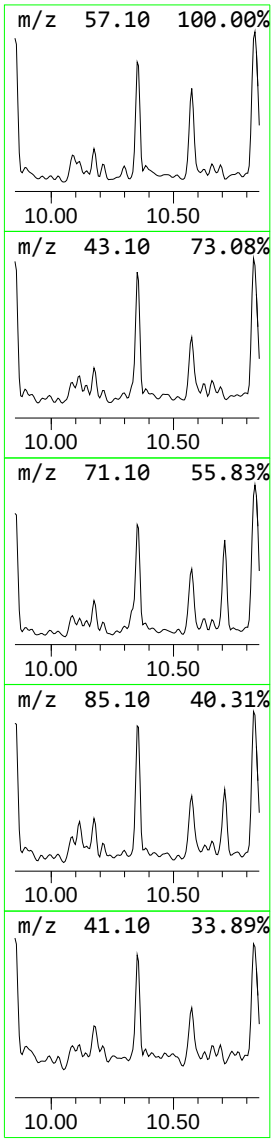
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Peak Number 5 Nonadecane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.351	2.08 ng	121830	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	81
2	Heptacosane	380	C27H56	000593-49-7	74
3	Eicosane	282	C20H42	000112-95-8	74
4	Heptadecane	240	C17H36	000629-78-7	74
5	Pentadecane	212	C15H32	000629-62-9	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

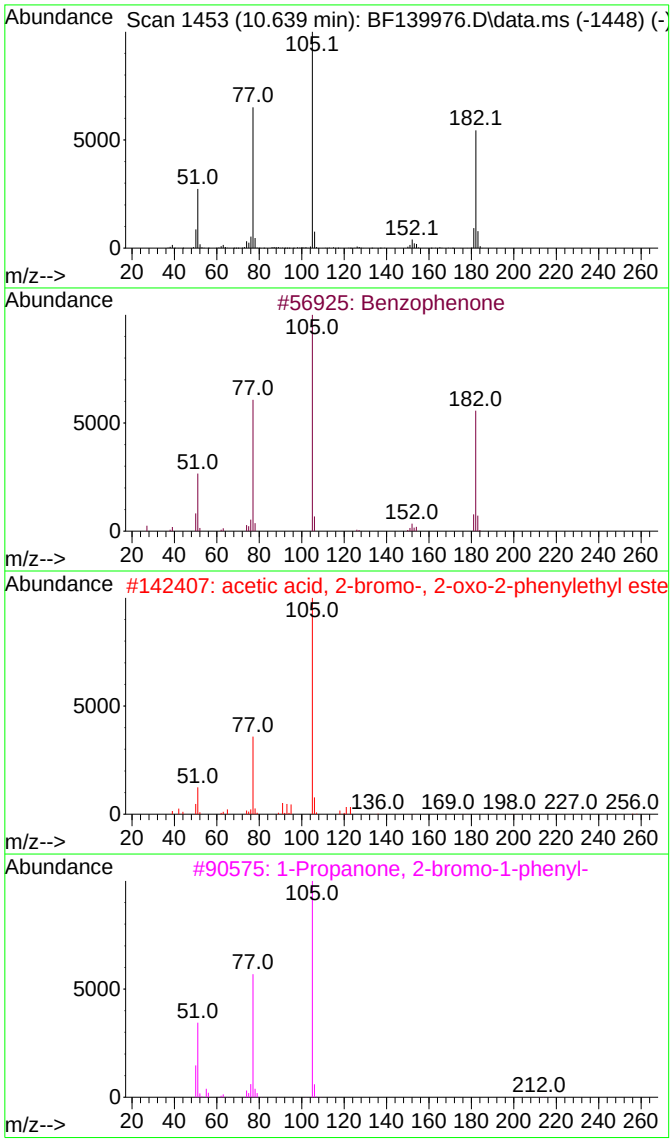
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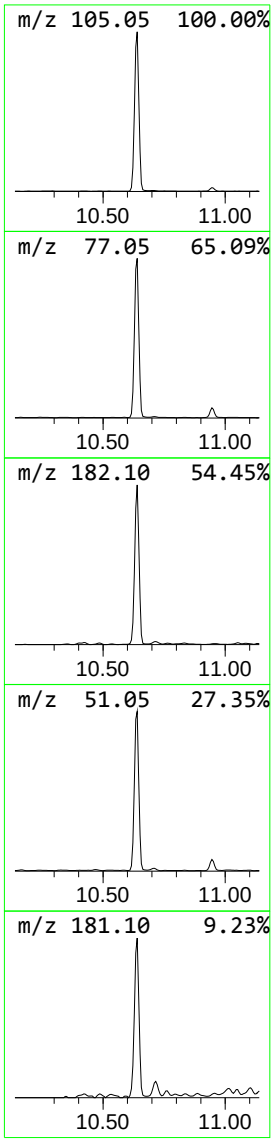
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Peak Number 6 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.639	15.80 ng	924341	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	47
5	N-(1-Cyanovinyl)benzamide	172	C10H8N2O	1000186-19-1	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

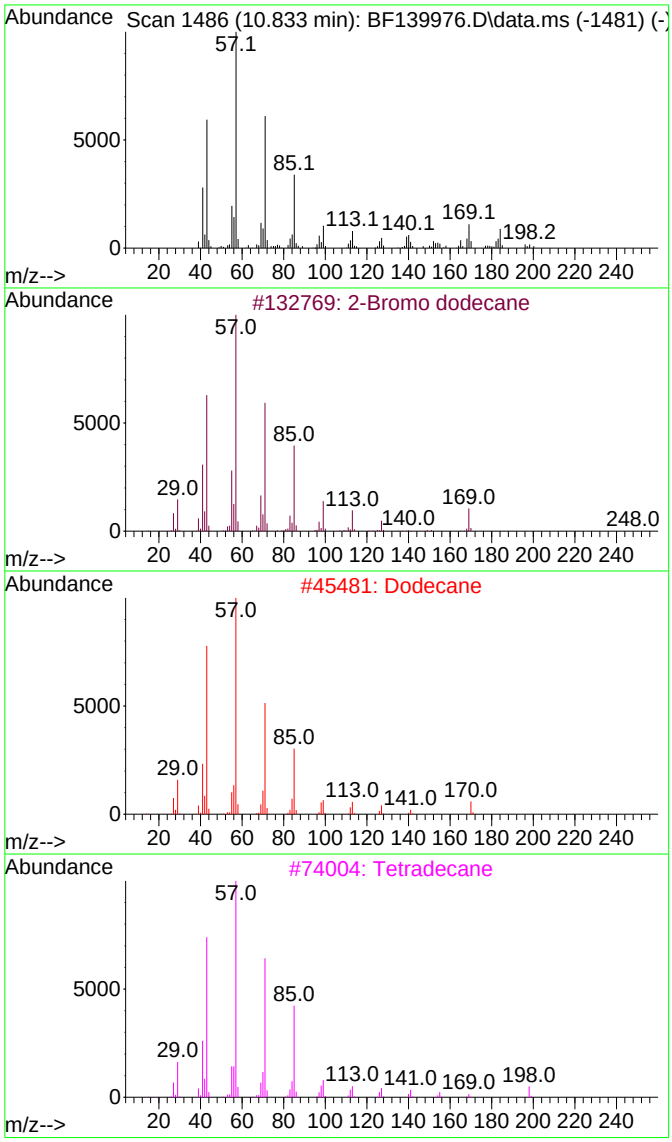
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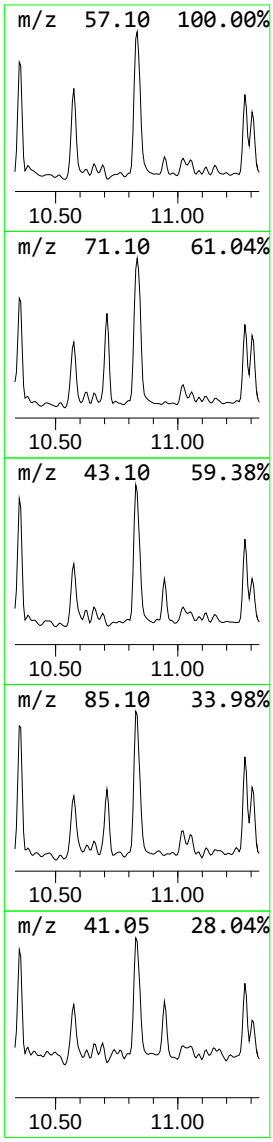
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Peak Number 7 2-Bromo dodecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.834	2.61 ng	164008	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Bromo dodecane	248	C12H25Br	013187-99-0	80
2	Dodecane	170	C12H26	000112-40-3	76
3	Tetradecane	198	C14H30	000629-59-4	76
4	Heneicosane	296	C21H44	000629-94-7	74
5	Octacosane	394	C28H58	000630-02-4	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
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ClientSampleId :
WB-301-BOT

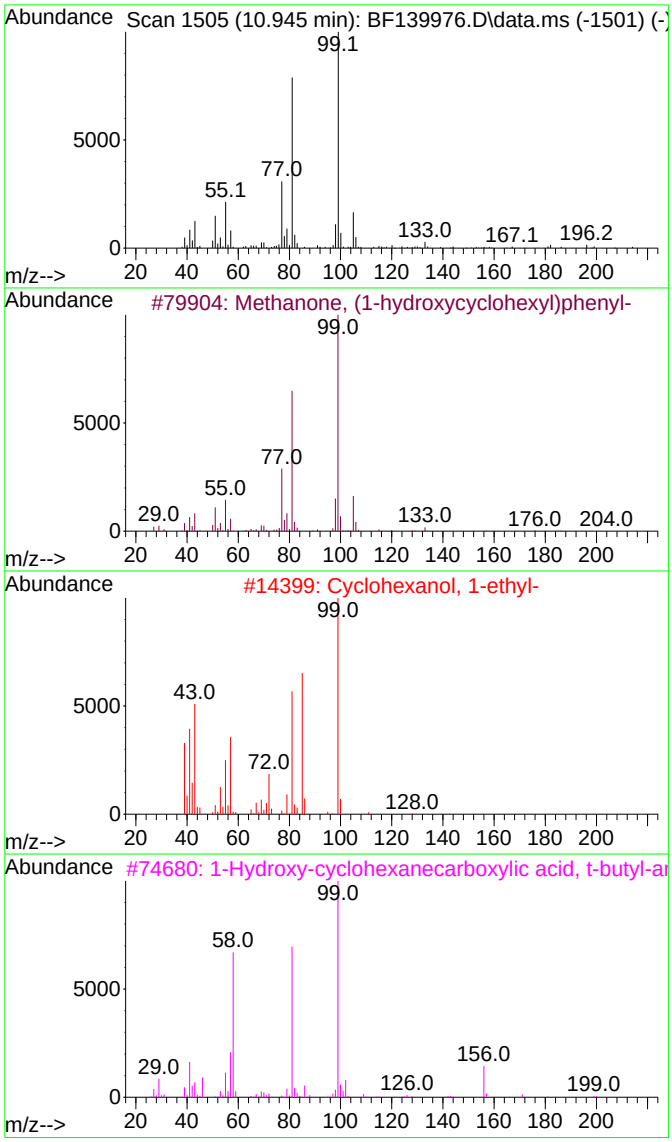
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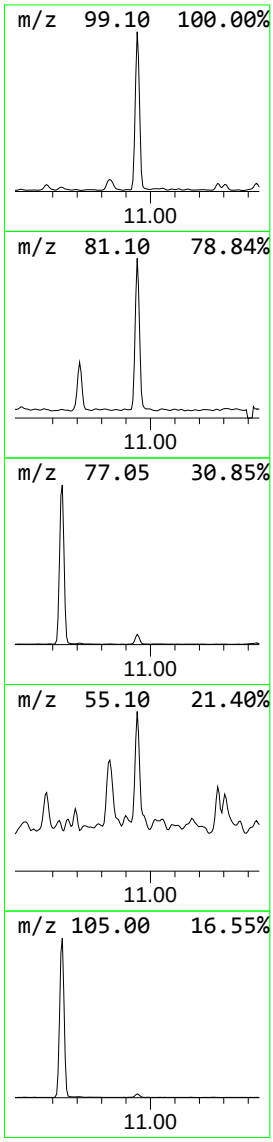
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TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Methanone, (1-hydroxycycloh... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.945	2.21 ng	138645	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	90
2	Cyclohexanol, 1-ethyl-	128	C8H16O	001940-18-7	59
3	1-Hydroxy-cyclohexanecarboxylic ...	199	C11H21NO2	004933-47-5	53
4	Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	47
5	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	45





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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On    : 23 Oct 2024  20:51
Operator  : RC/JU
Sample    : P4397-02
Misc      :
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

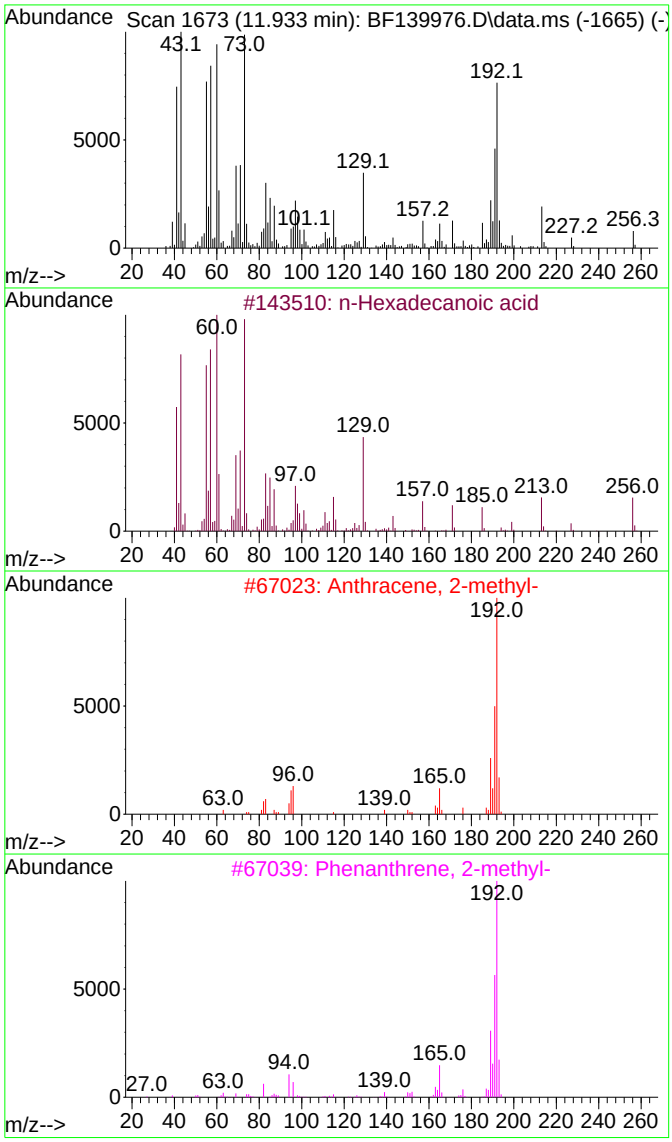
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TIC Integration Parameters: LSCINT.P
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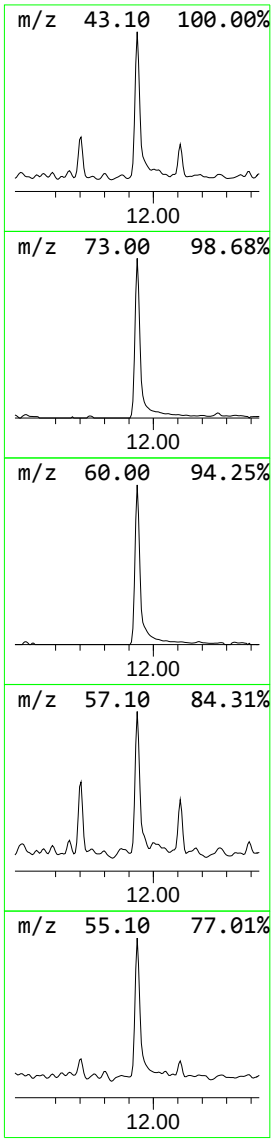
Instrument : BNA_F
ClientSampleId : WB-301-BOT

Peak Number 9 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	7.83 ng	491754	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	92
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	92
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	92





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

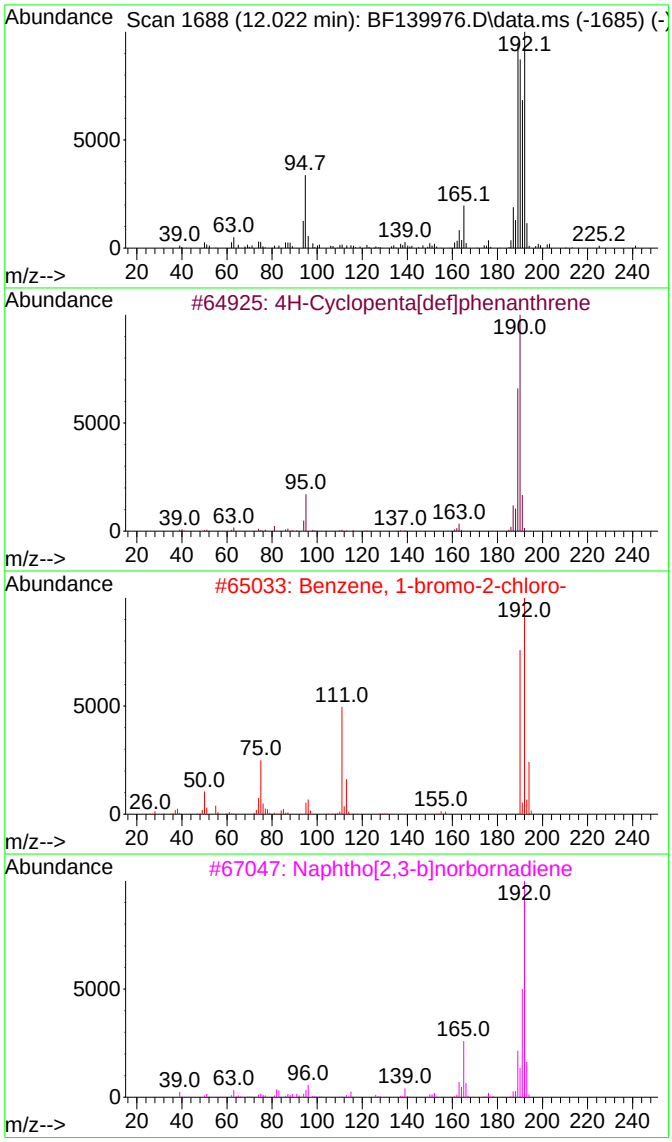
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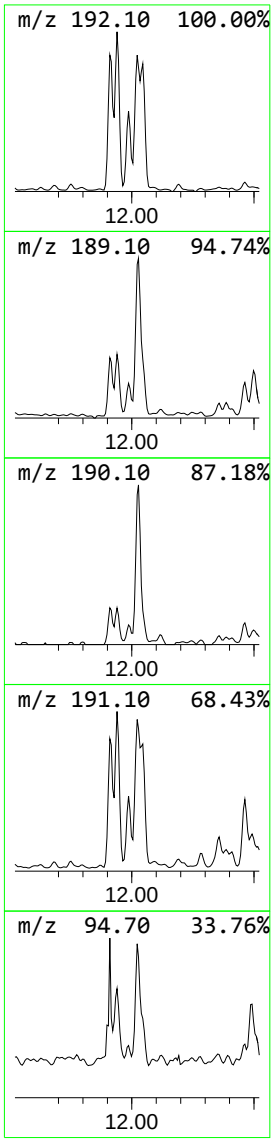
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Peak Number 10 unknown12.022 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.022	3.32 ng	208224	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	43
2	Benzene, 1-bromo-2-chloro-	190	C6H4BrCl	000694-80-4	43
3	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	42
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	41
5	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	41





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

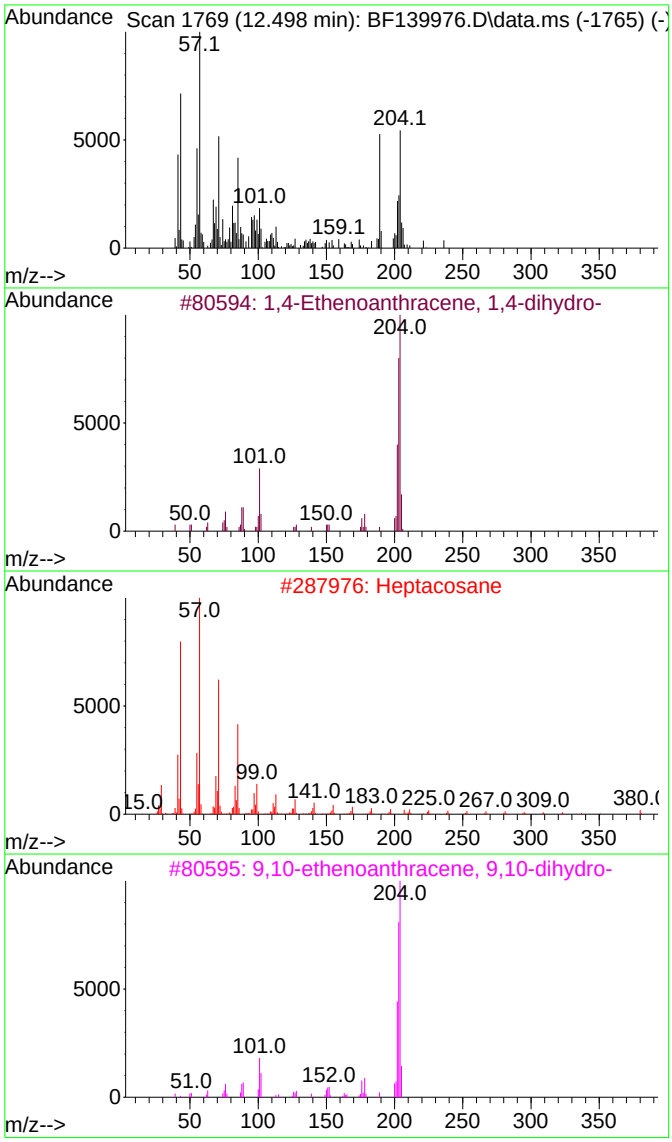
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TIC Integration Parameters: LSCINT.P

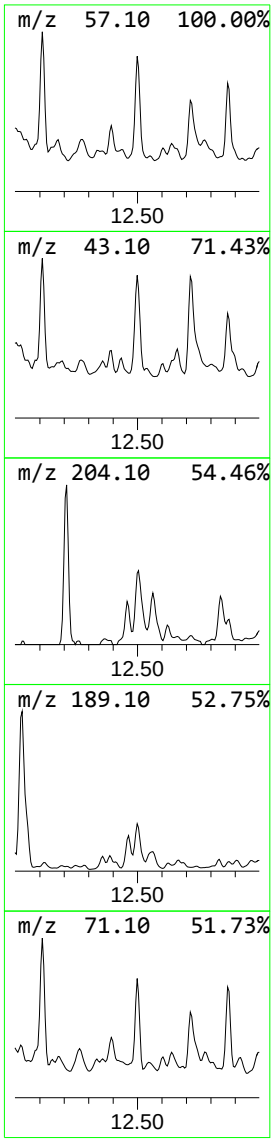
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Peak Number 11 unknown12.498 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.498	2.29 ng	144103	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	41
2	Heptacosane	380	C27H56	000593-49-7	30
3	9,10-ethenoanthracene, 9,10-dihy...	204	C16H12	1000400-47-8	25
4	Pentadecane	212	C15H32	000629-62-9	25
5	Pentadecane, 7-(bromomethyl)-	304	C16H33Br	052997-43-0	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

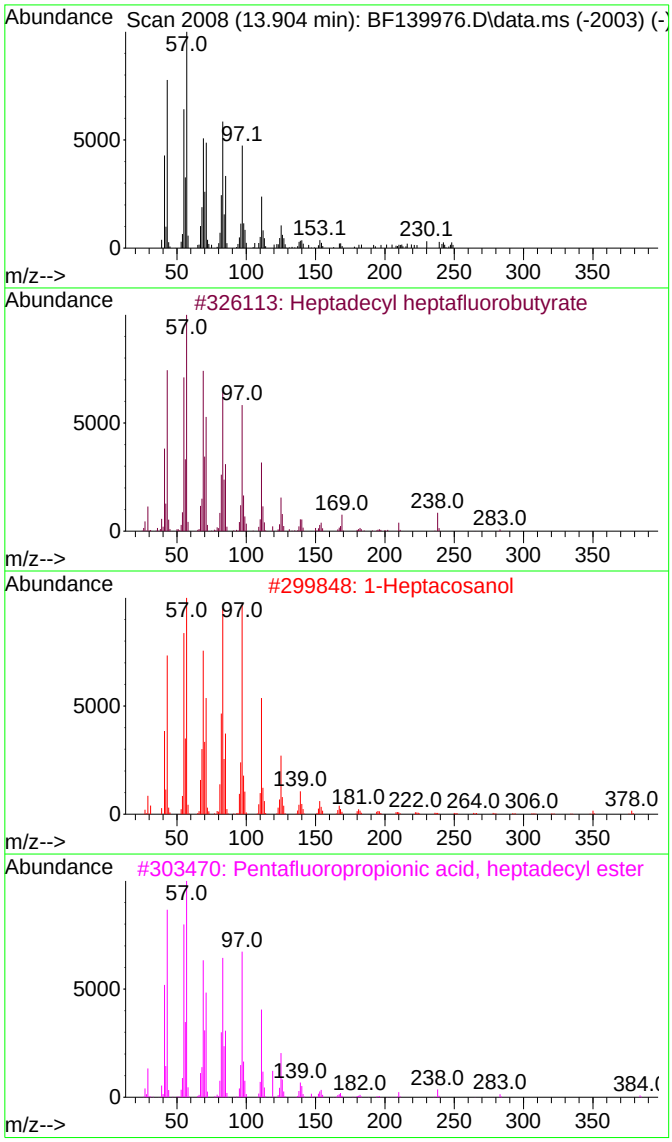
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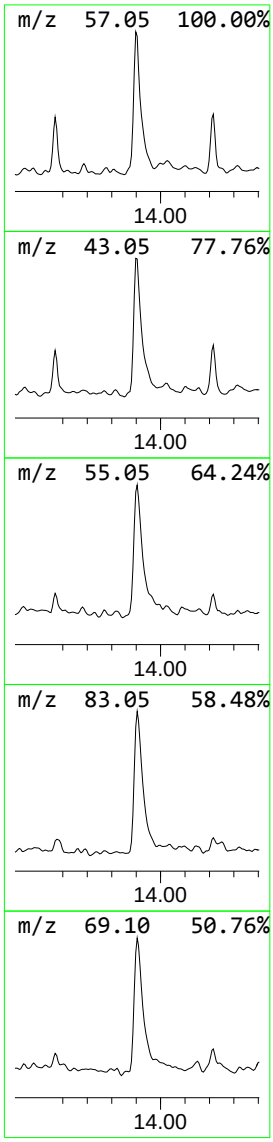
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 Heptadecyl heptafluorobutyrate Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.72 ng	205404	Chrysene-d12	14.051

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
2	1-Heptacosanol	396	C27H56O	002004-39-9	91
3	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	91
4	Butyl hexacosyl ether	438	C30H62O	1000406-41-0	91
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

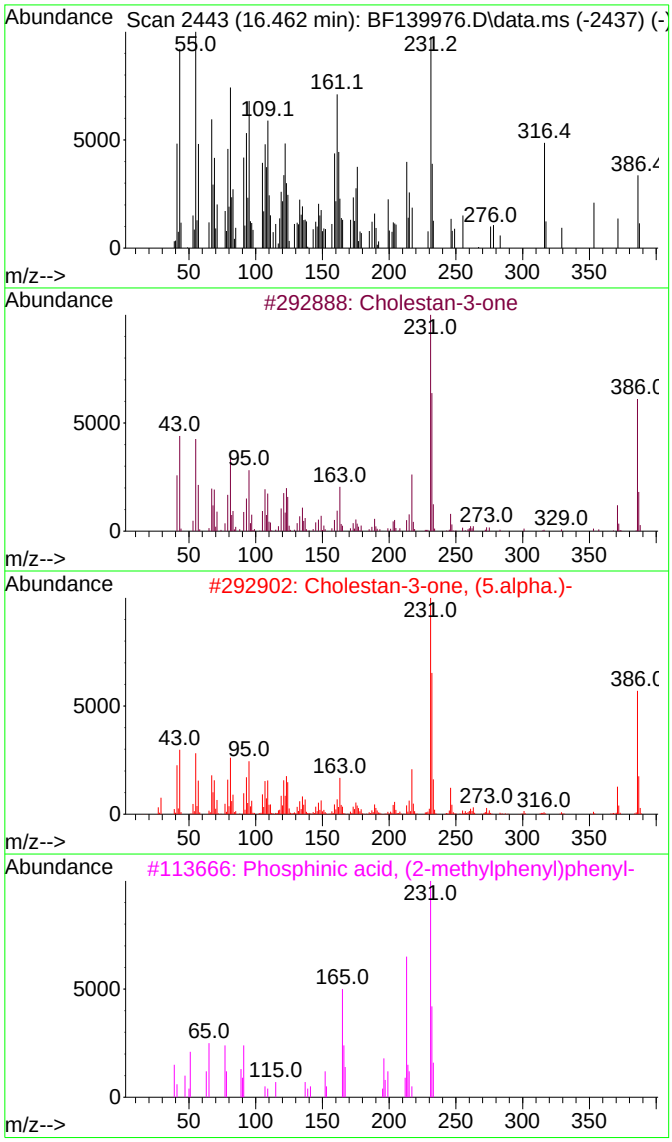
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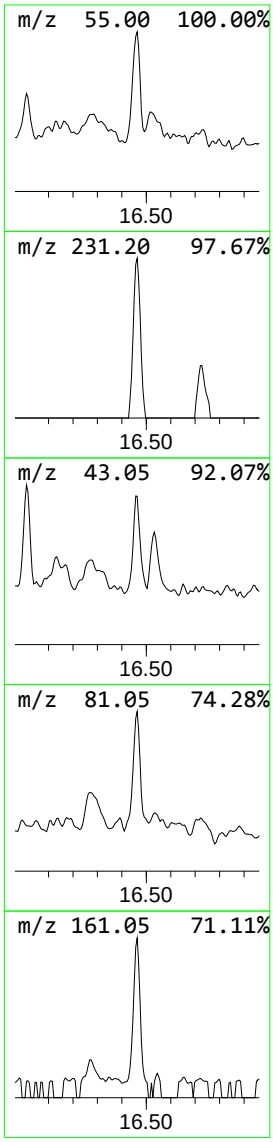
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Peak Number 13 Cholestan-3-one Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.462	2.35 ng	99288	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholestan-3-one	386	C27H46O	015600-08-5	90
2	Cholestan-3-one, (5.alpha.)-	386	C27H46O	000566-88-1	56
3	Phosphinic acid, (2-methylphenyl...	232	C13H13O2P	018593-18-5	27
4	Cholestan-3-one, (5.beta.)-	386	C27H46O	000601-53-6	20
5	26-Nor-5-cholesten-3.beta.-ol-25...	386	C26H42O2	007494-34-0	15





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-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...	2.216	91.3	ng	4065410	1	6.893	890804	20.0
2-Pentanone, 4-...	5.122	6.2	ng	278004	1	6.893	890804	20.0
Hexadecane	9.322	2.1	ng	122086	3	9.922	1170240	20.0
Naphthalene, 2,...	9.581	2.4	ng	141082	3	9.922	1170240	20.0
Nonadecane	10.351	2.1	ng	121830	3	9.922	1170240	20.0
Benzophenone	10.639	15.8	ng	924341	3	9.922	1170240	20.0
2-Bromo dodecane	10.834	2.6	ng	164008	4	11.410	1255860	20.0
Methanone, (1-h...	10.945	2.2	ng	138645	4	11.410	1255860	20.0
n-Hexadecanoic ...	11.933	7.8	ng	491754	4	11.410	1255860	20.0
unknown12.022	12.022	3.3	ng	208224	4	11.410	1255860	20.0
unknown12.498	12.498	2.3	ng	144103	4	11.410	1255860	20.0
Heptadecyl hept...	13.904	3.7	ng	205404	5	14.051	1105540	20.0
Cholestan-3-one	16.462	2.4	ng	99288	6	15.527	846010	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Quant Time: Oct 24 01:12:03 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

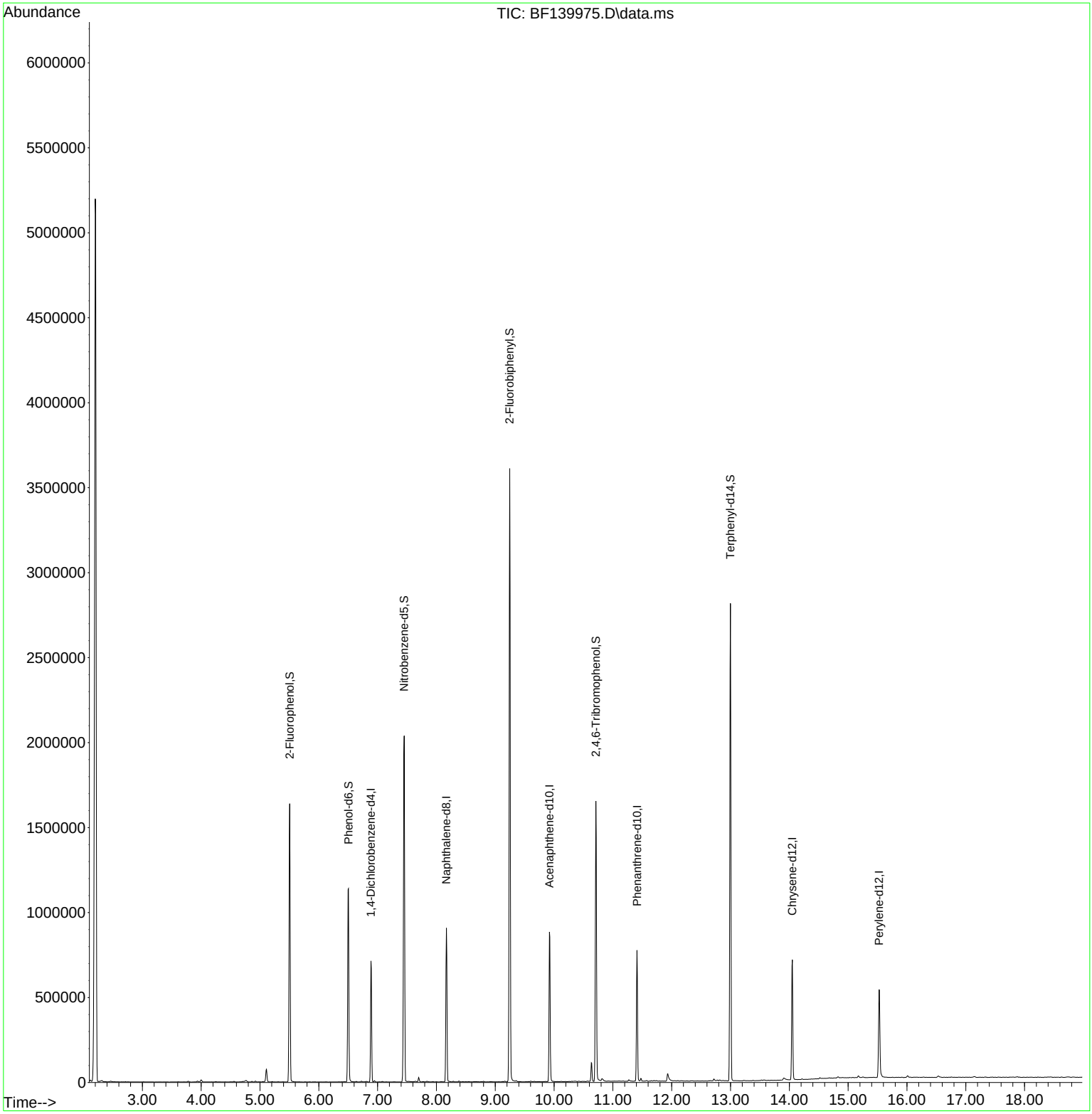
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	146831	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	541523	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	276437	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	397037	20.000	ng	0.00
76) Chrysene-d12	14.051	240	340671	20.000	ng	0.00
86) Perylene-d12	15.527	264	311683	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	598372	63.797	ng	0.00
7) Phenol-d6	6.504	99	536909	44.199	ng	0.00
23) Nitrobenzene-d5	7.451	82	946599	96.882	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	290864	112.489	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1600028	95.659	ng	0.00
79) Terphenyl-d14	12.998	244	1406116	67.257	ng	0.00
Target Compounds						Qvalue

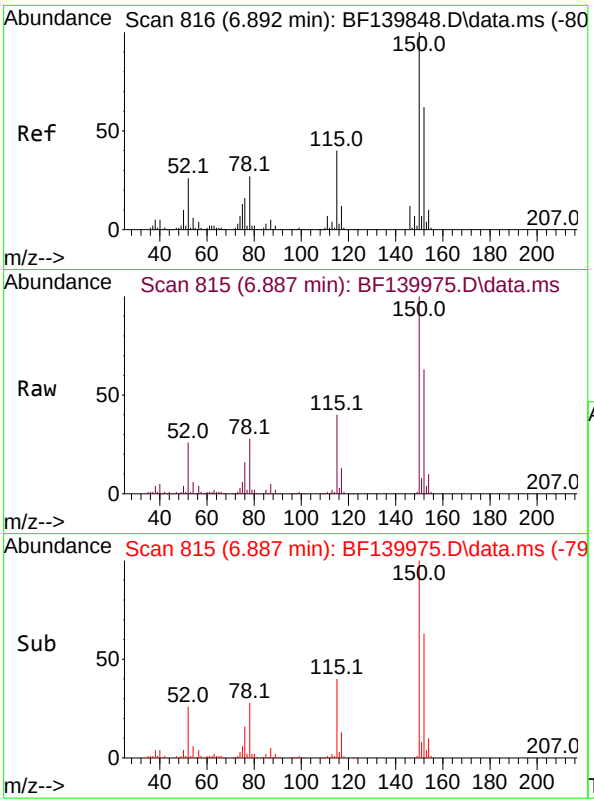
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Quant Time: Oct 24 01:12:03 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



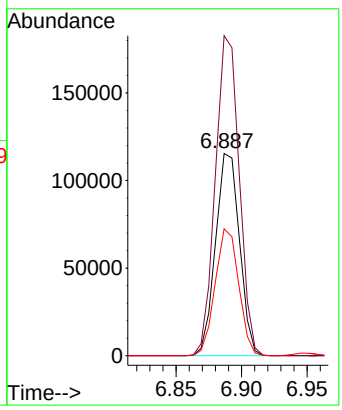


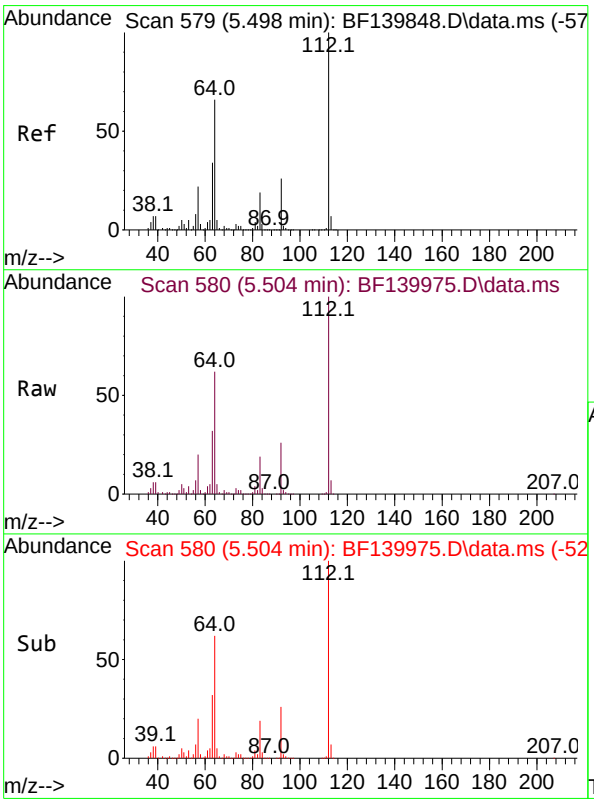
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion:152 Resp: 146831

Ion	Ratio	Lower	Upper
152	100		
150	158.2	130.2	195.2
115	62.8	51.4	77.2

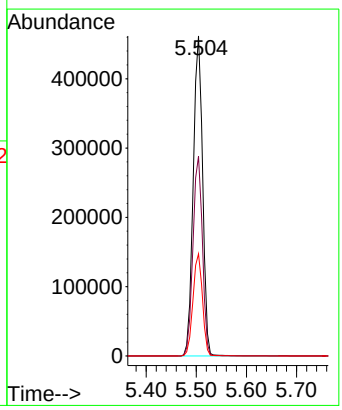


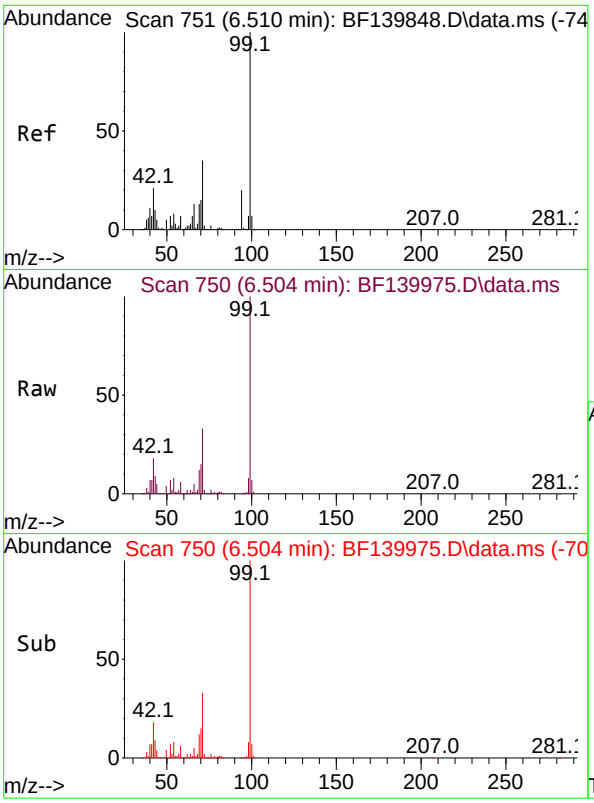


#5
2-Fluorophenol
Concen: 63.797 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:112 Resp: 598372

Ion	Ratio	Lower	Upper
112	100		
64	62.4	53.0	79.6
63	31.9	27.0	40.4



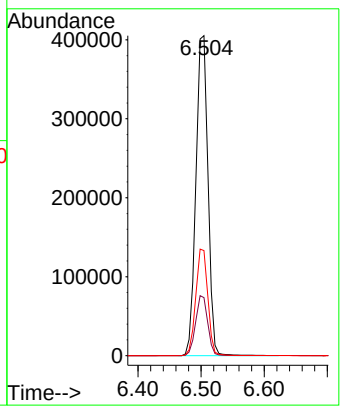


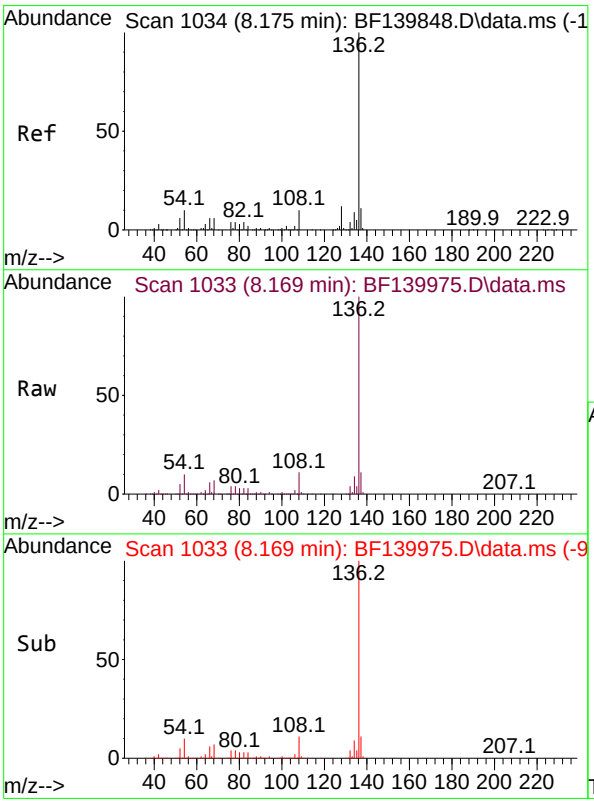
#7
Phenol-d6
Concen: 44.199 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion: 99 Resp: 536909

Ion	Ratio	Lower	Upper
99	100		
42	18.1	16.7	25.1
71	32.8	27.7	41.5

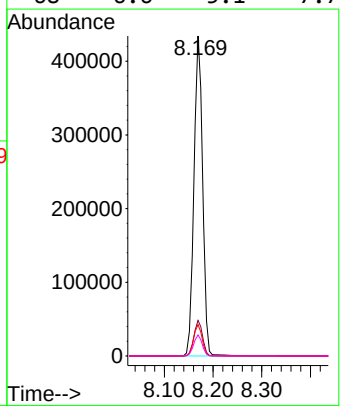


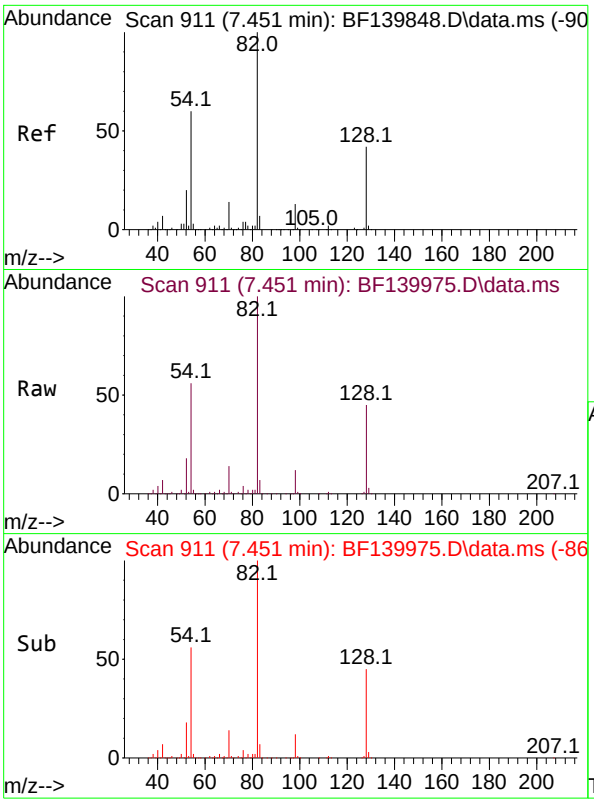


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:136 Resp: 541523

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	12.8
54	9.8	8.4	12.6
68	6.6	5.1	7.7



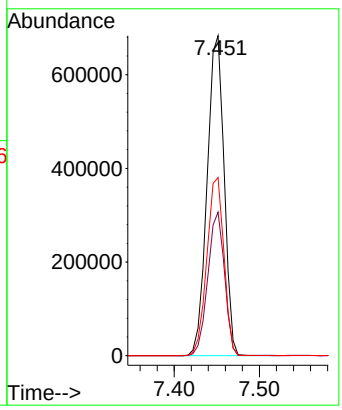


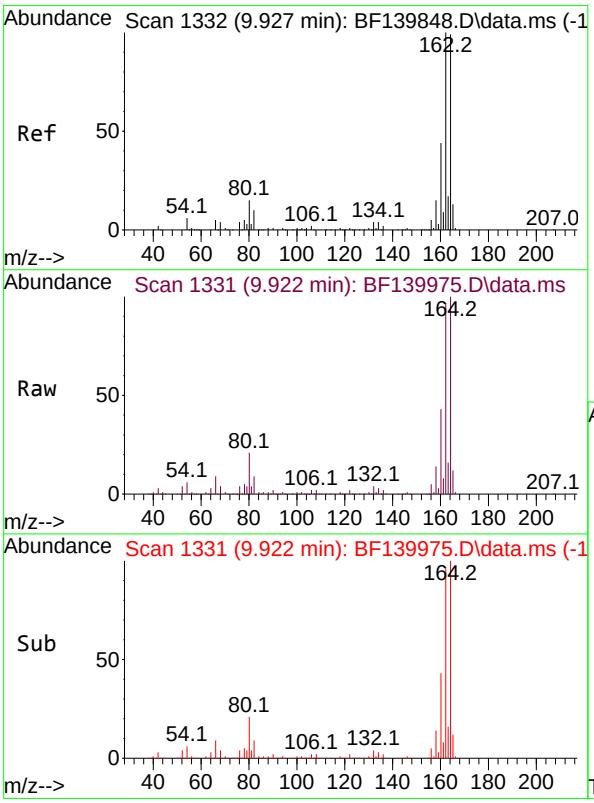
#23
Nitrobenzene-d5
Concen: 96.882 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion: 82 Resp: 946599

Ion	Ratio	Lower	Upper
82	100		
128	44.9	33.4	50.0
54	55.6	47.8	71.8

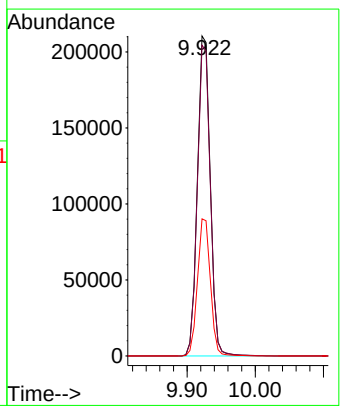


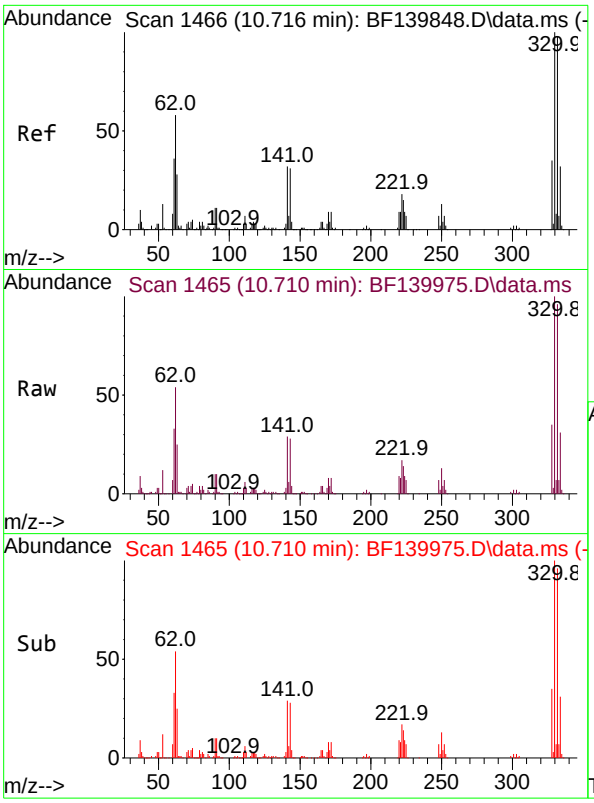


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:164 Resp: 276437

Ion	Ratio	Lower	Upper
164	100		
162	97.1	81.0	121.4
160	42.9	35.4	53.0



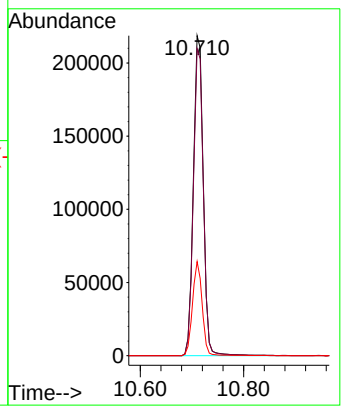


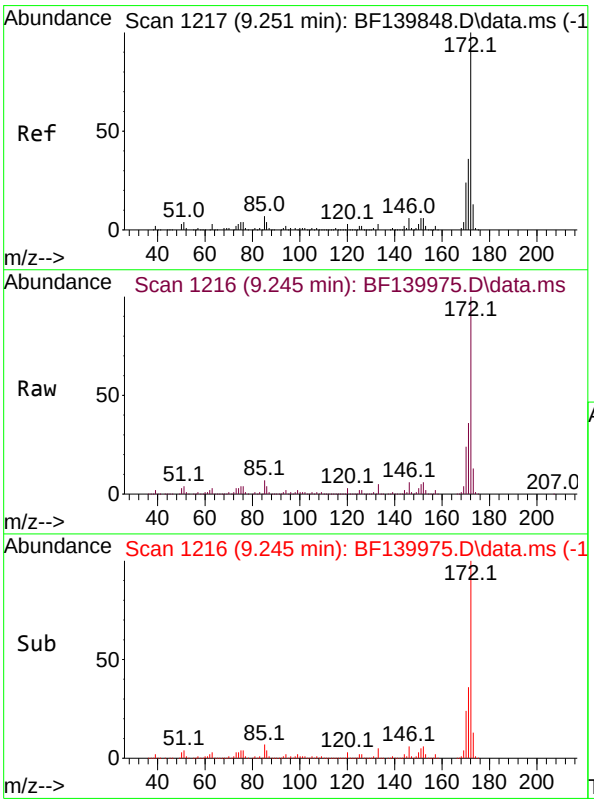
#42
2,4,6-Tribromophenol
Concen: 112.489 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion:330 Resp: 290864

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.1	117.1
141	28.8	26.6	39.8

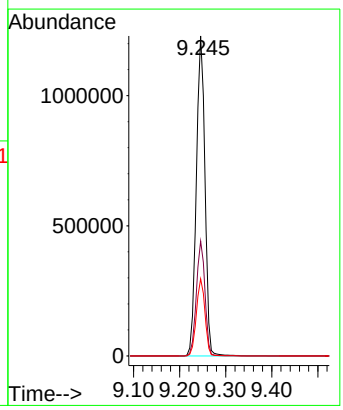


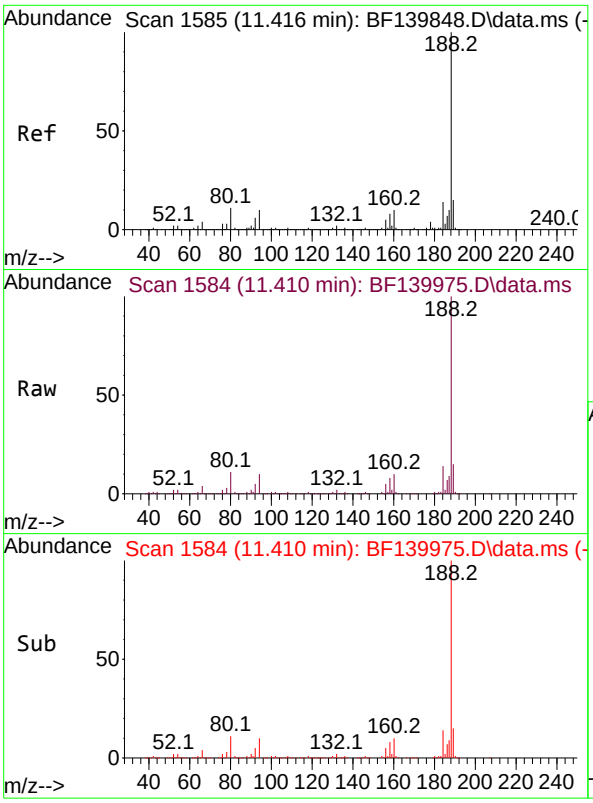


#45
2-Fluorobiphenyl
Concen: 95.659 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:172 Resp: 1600028

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.1	19.1	28.7



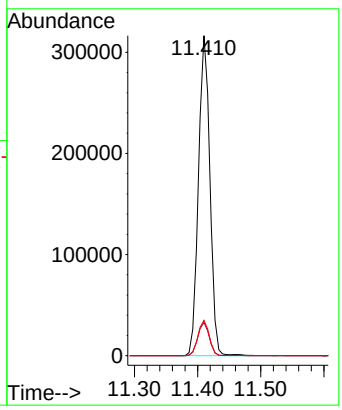


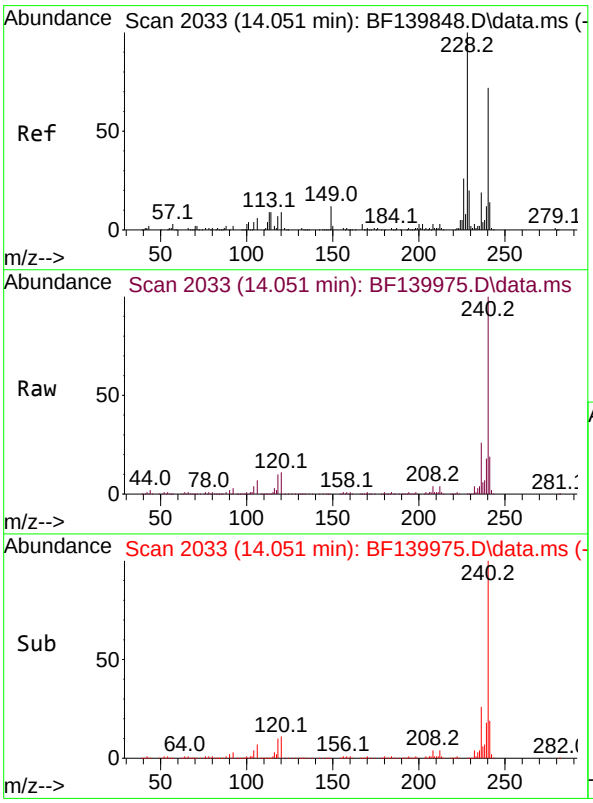
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion:188 Resp: 397037

Ion	Ratio	Lower	Upper
188	100		
94	10.4	7.9	11.9
80	11.0	9.0	13.4

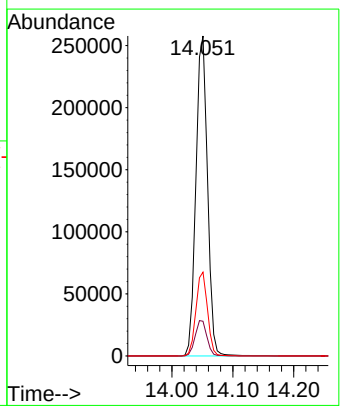


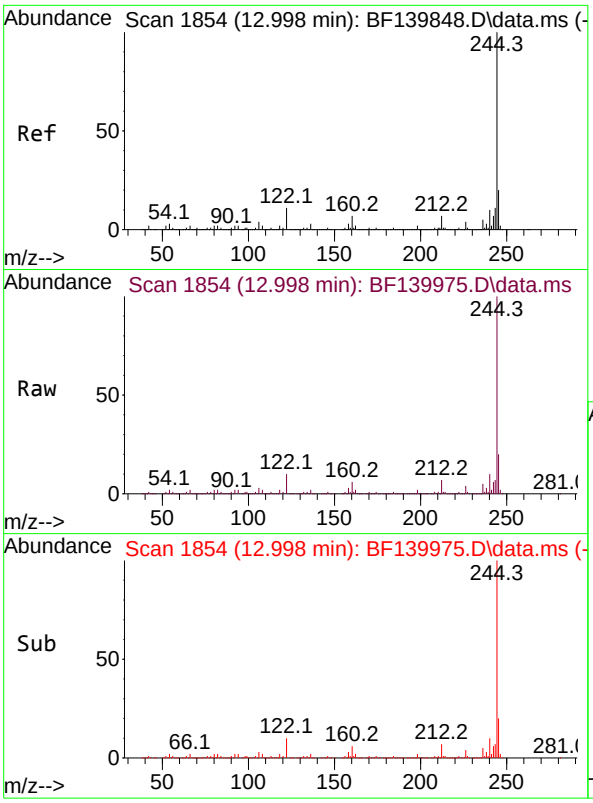


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:240 Resp: 340671

Ion	Ratio	Lower	Upper
240	100		
120	10.8	9.4	14.2
236	26.2	20.9	31.3



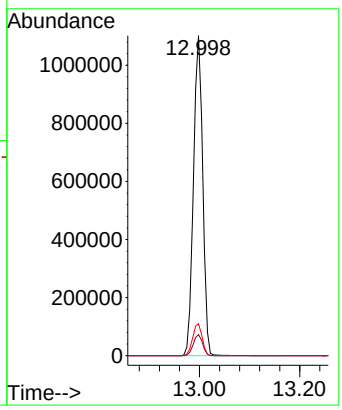


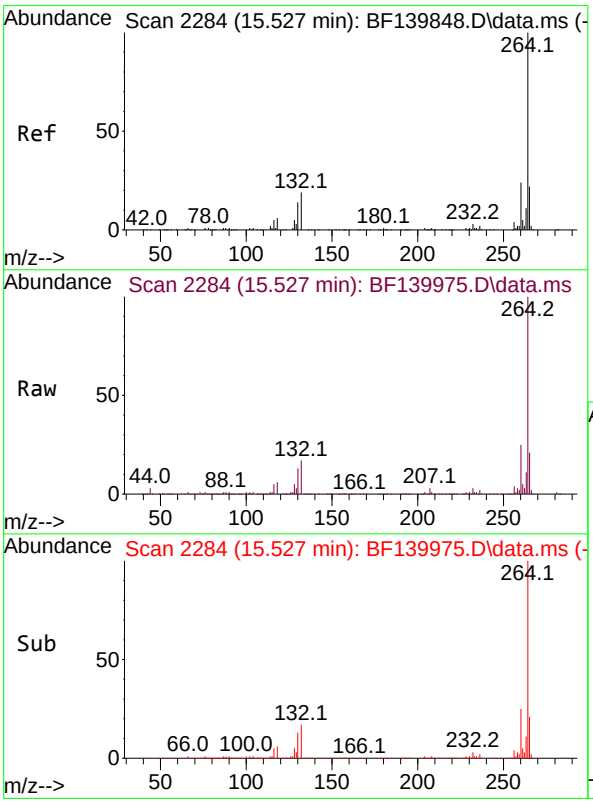
#79
Terphenyl-d14
Concen: 67.257 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion:244 Resp: 1406116

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	10.0	8.6	13.0

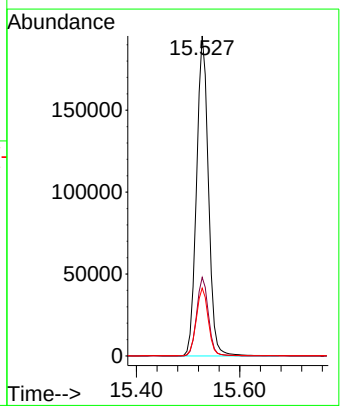




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:264 Resp: 311683

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	21.2	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-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: BF139975.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	8	18	25	rVB	5193508	9482581	100.00%	29.069%
2	5.110	505	513	521	rVB	74064	113426	1.20%	0.348%
3	5.504	574	580	585	rBV	1637936	2128310	22.44%	6.524%
4	6.504	744	750	764	rBV	1135868	1525513	16.09%	4.676%
5	6.887	810	815	821	rBV	712057	895974	9.45%	2.747%
6	7.451	904	911	916	rBV	2036614	2821277	29.75%	8.649%
7	8.169	1028	1033	1038	rBV	904722	1118375	11.79%	3.428%
8	9.245	1210	1216	1221	rBV	3608402	4641242	48.94%	14.228%
9	9.922	1326	1331	1341	rBV	879459	1147142	12.10%	3.517%
10	10.634	1447	1452	1459	rVB	109546	142989	1.51%	0.438%
11	10.710	1459	1465	1479	rBV	1649776	2163165	22.81%	6.631%
12	11.410	1579	1584	1592	rBV	770201	963887	10.16%	2.955%
13	11.933	1667	1673	1688	rBV3	42912	99209	1.05%	0.304%
14	12.998	1848	1854	1859	rBV	2809282	3601174	37.98%	11.039%
15	14.051	2027	2033	2040	rBV	705842	941026	9.92%	2.885%
16	15.527	2278	2284	2300	rBV	516363	835896	8.82%	2.562%

Sum of corrected areas: 32621186

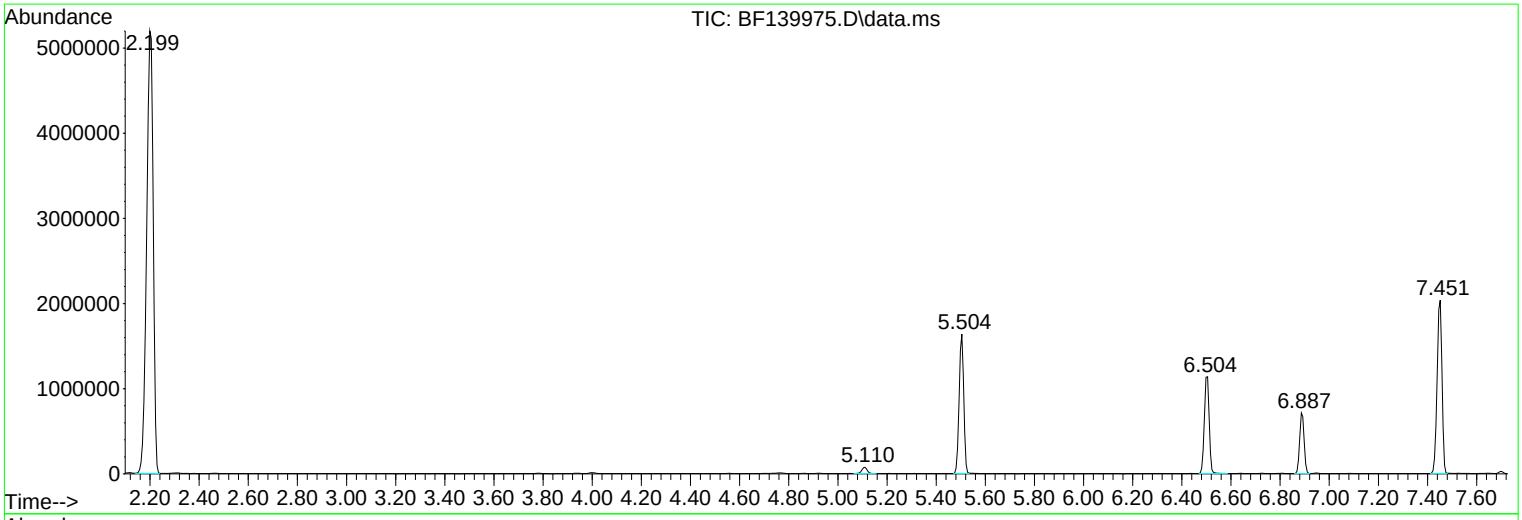
Sample Results: **BF139975.D**

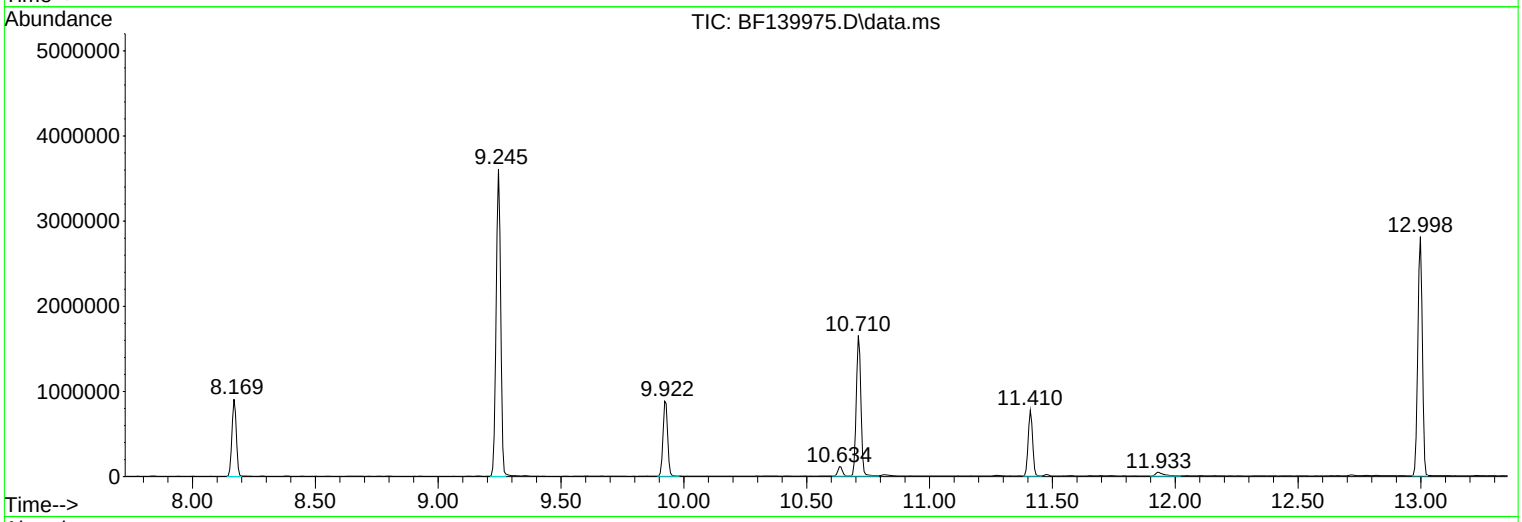
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

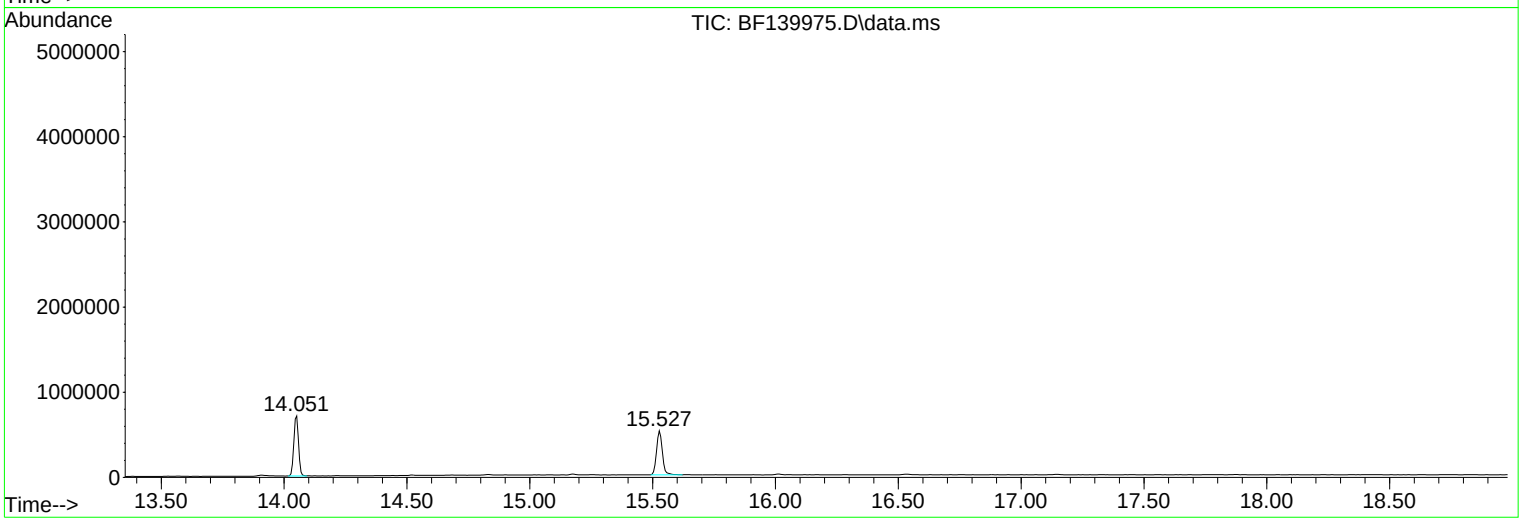
Instrument :
BNA_F
ClientSampleId :
WB-301-SW

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\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

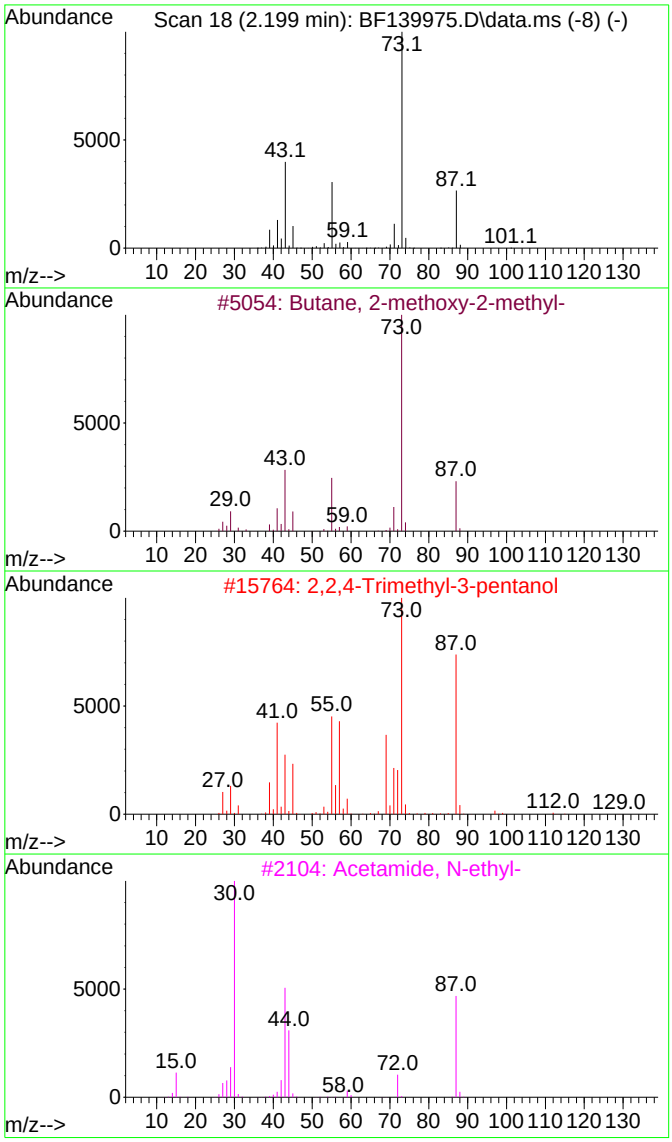
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

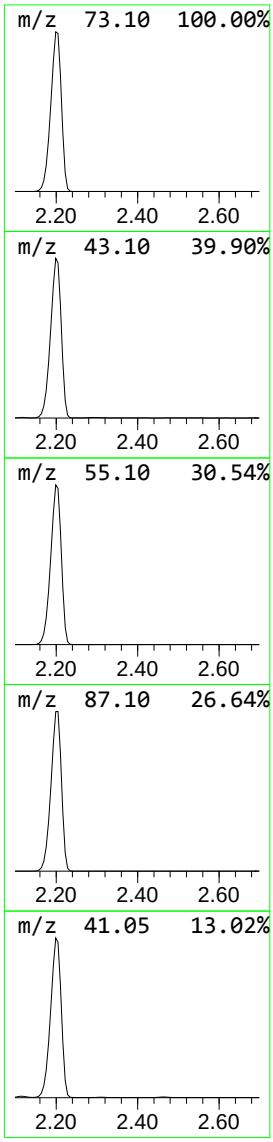
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.199	211.67 ng	9482580	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	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\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

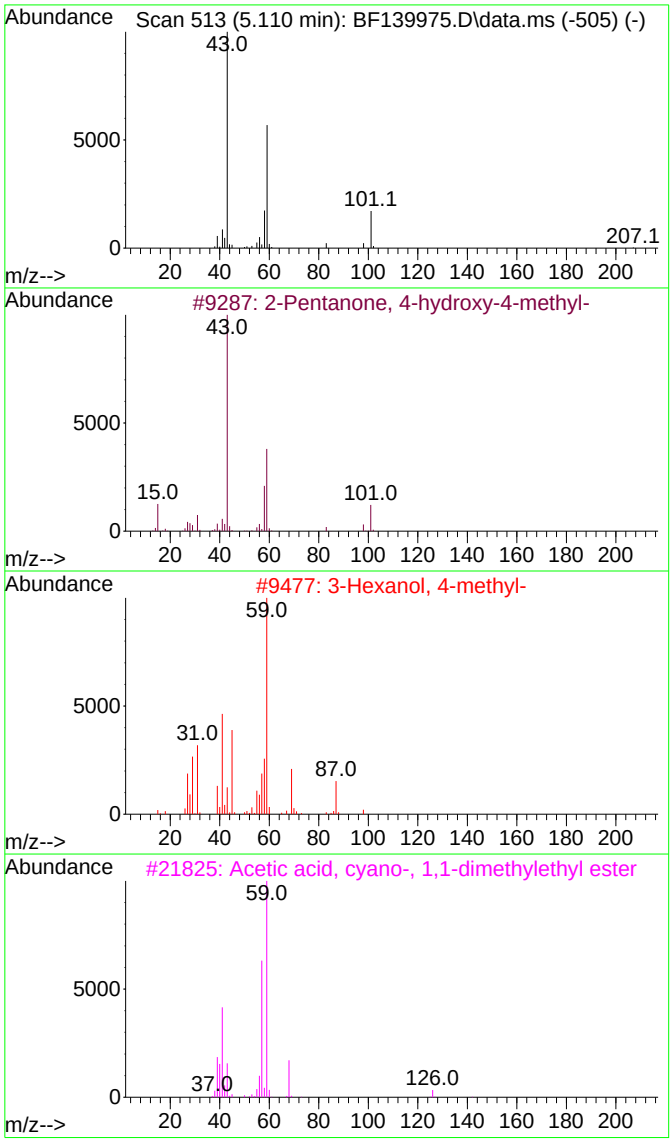
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

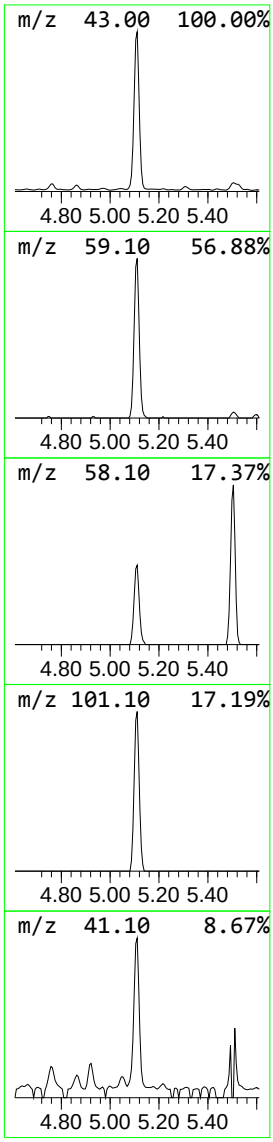
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	2.53 ng	113426	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	23
5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

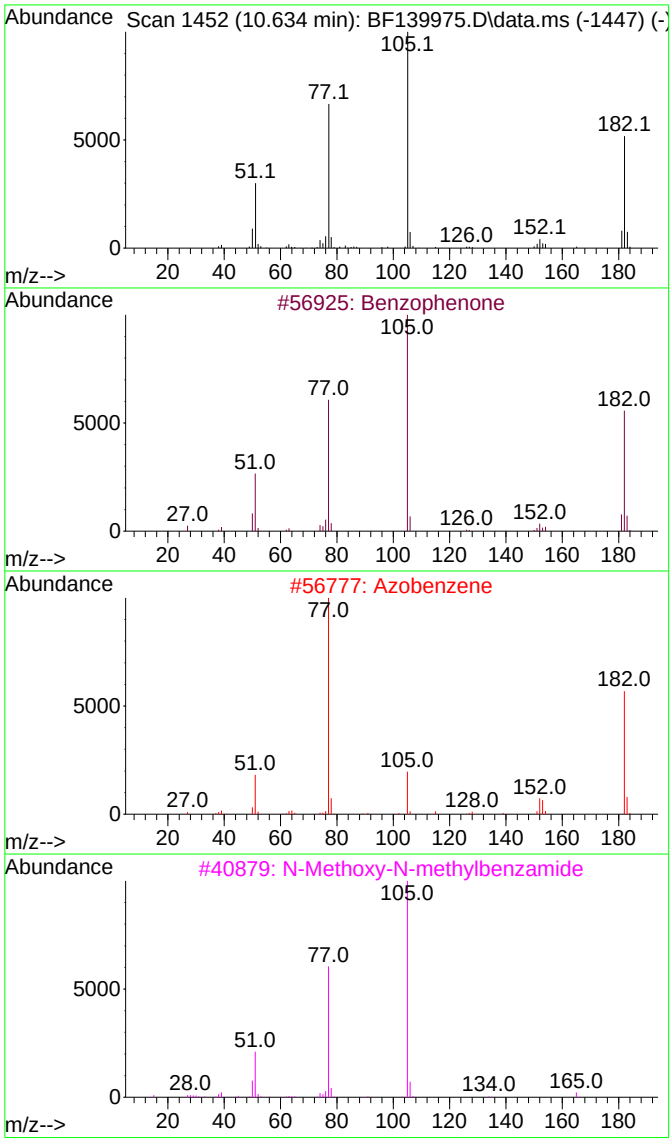
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

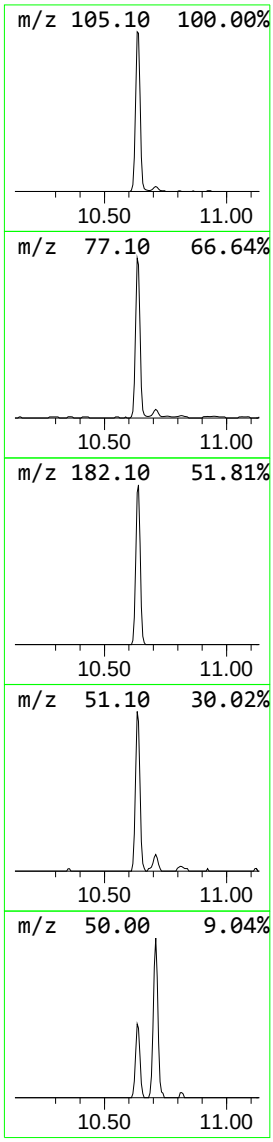
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Peak Number 3 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.634	2.49 ng	142989	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	58
3	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	50
4	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	50
5	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

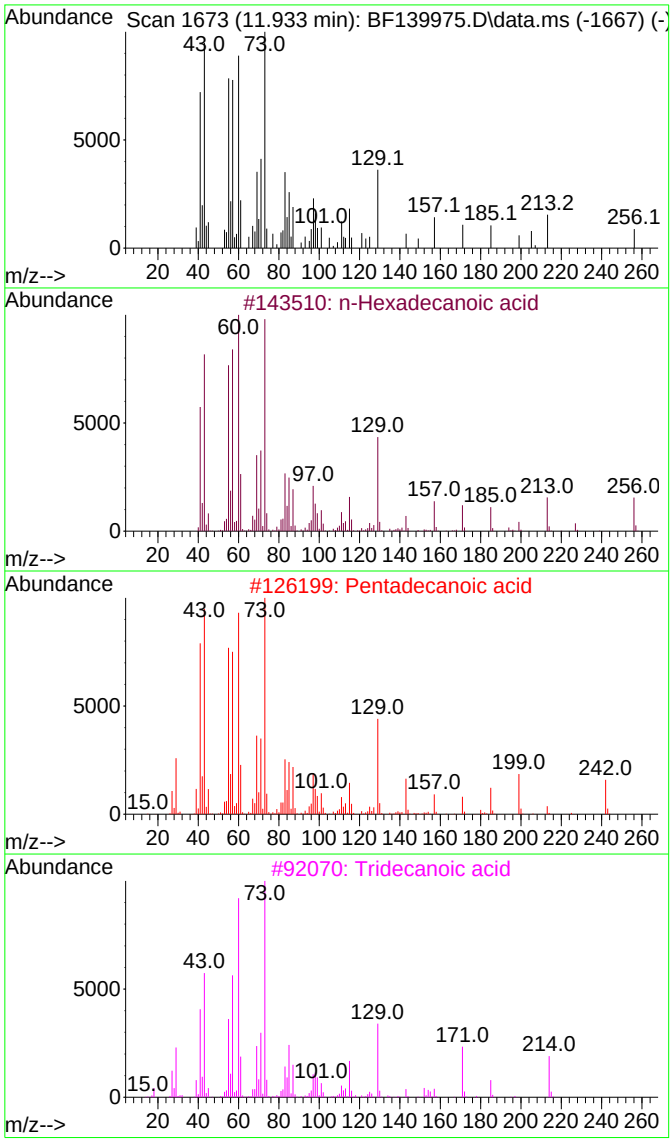
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

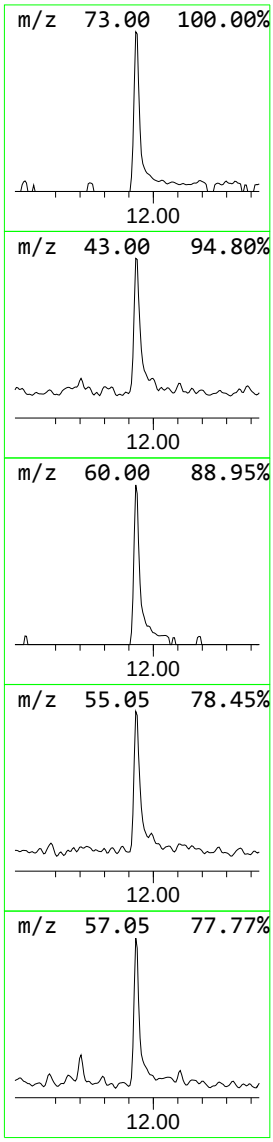
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	2.06 ng	99209	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	87
3	Tridecanoic acid	214	C13H26O2	000638-53-9	80
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	Oxalic acid, allyl hexadecyl ester	354	C21H38O4	1000309-24-4	20





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-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...	2.199	211.7	ng	9482580	1	6.887	895974	20.0
2-Pentanone, 4-...	5.110	2.5	ng	113426	1	6.887	895974	20.0
Benzophenone	10.634	2.5	ng	142989	3	9.922	1147140	20.0
n-Hexadecanoic ...	11.933	2.1	ng	99209	4	11.410	963887	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Quant Time: Oct 21 11:07:33 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

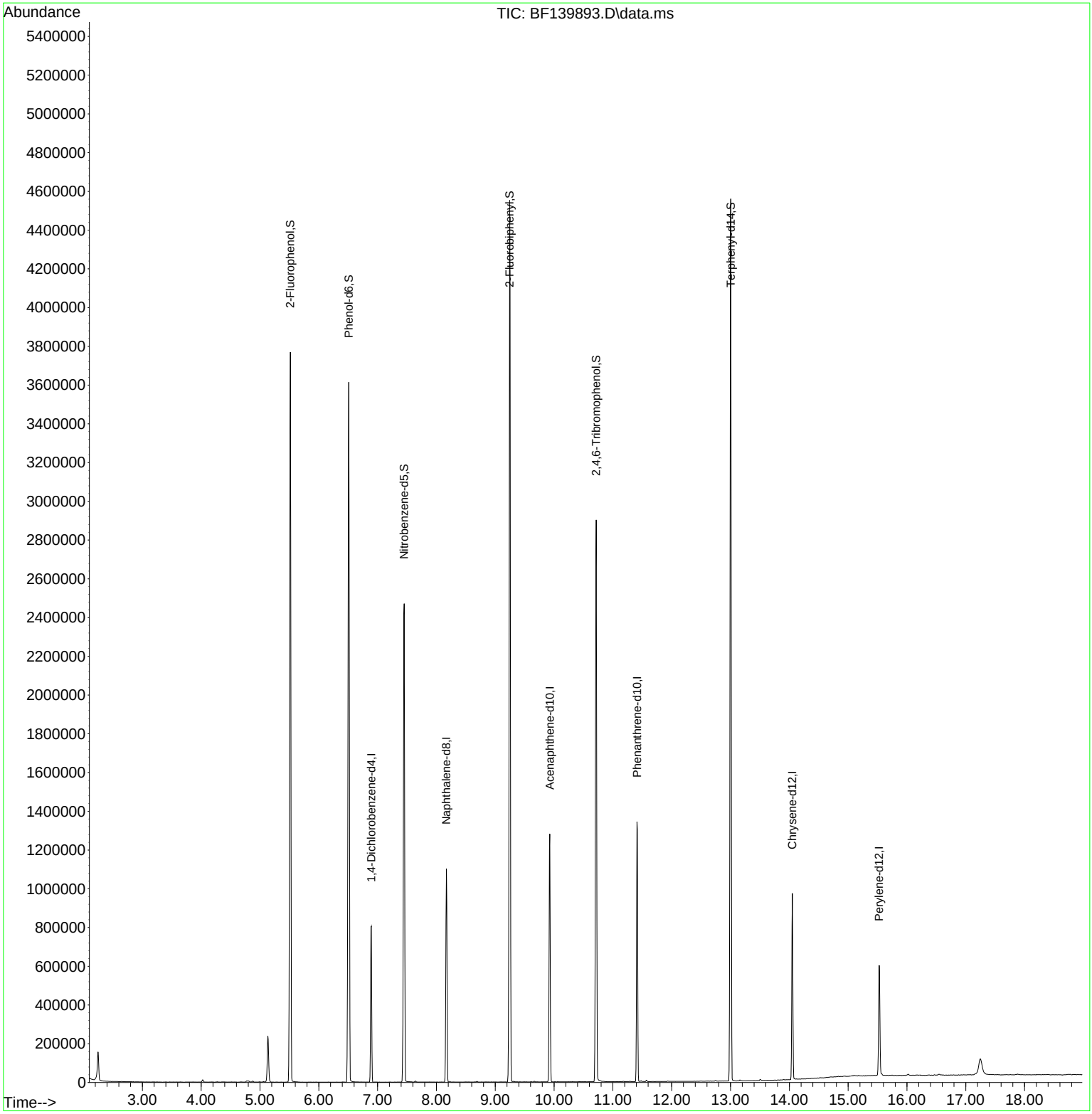
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	167950	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	682521	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	387913	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	717487	20.000	ng	0.00
76) Chrysene-d12	14.051	240	434664	20.000	ng	0.00
86) Perylene-d12	15.527	264	327943	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1477979	137.765	ng	0.02
7) Phenol-d6	6.510	99	1885243	135.679	ng	0.00
23) Nitrobenzene-d5	7.451	82	1193449	96.913	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	526130	145.003	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	2140061	91.177	ng	0.00
79) Terphenyl-d14	13.004	244	2411993	90.421	ng	0.00
Target Compounds						Qvalue

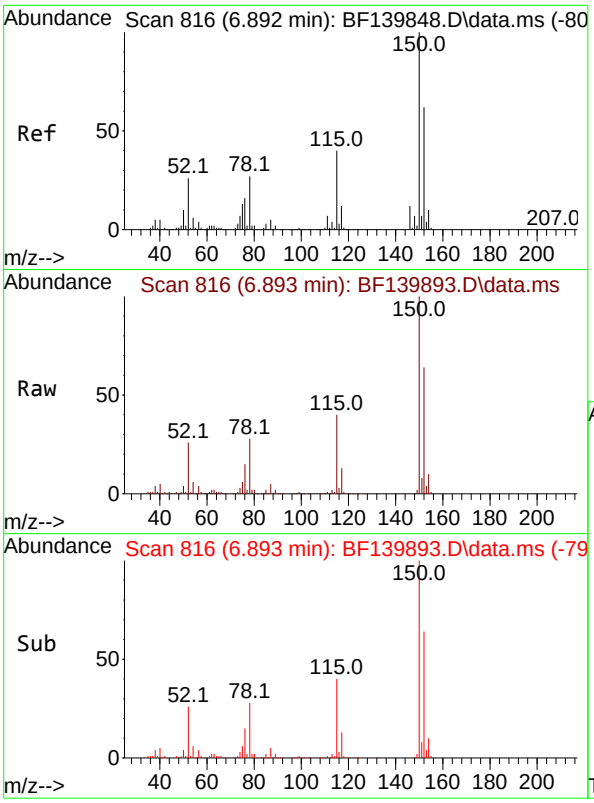
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Quant Time: Oct 21 11:07:33 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



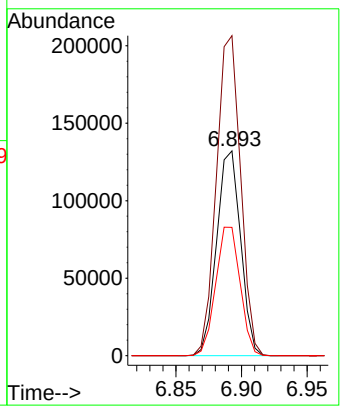


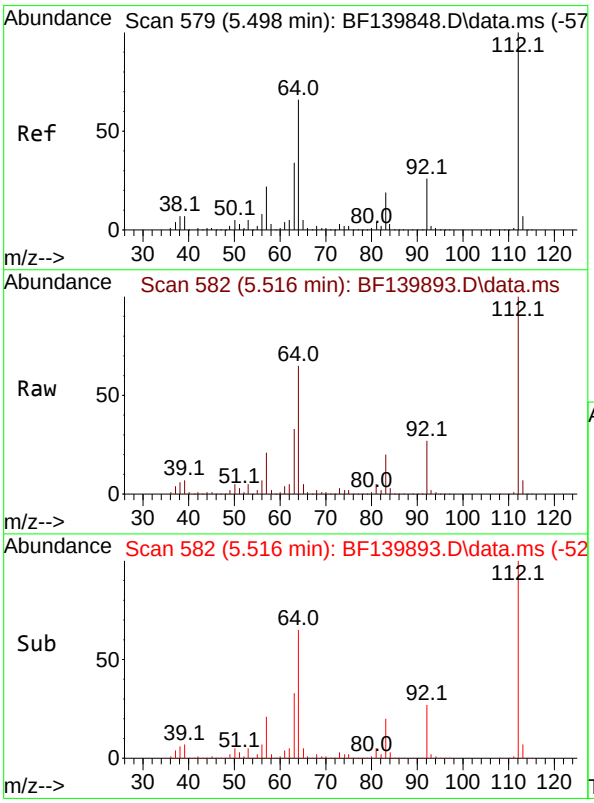
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion:152 Resp: 167950

Ion	Ratio	Lower	Upper
152	100		
150	156.3	130.2	195.2
115	62.7	51.4	77.2

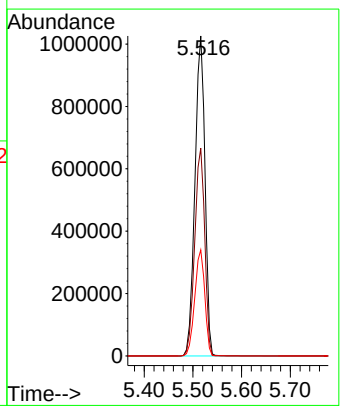


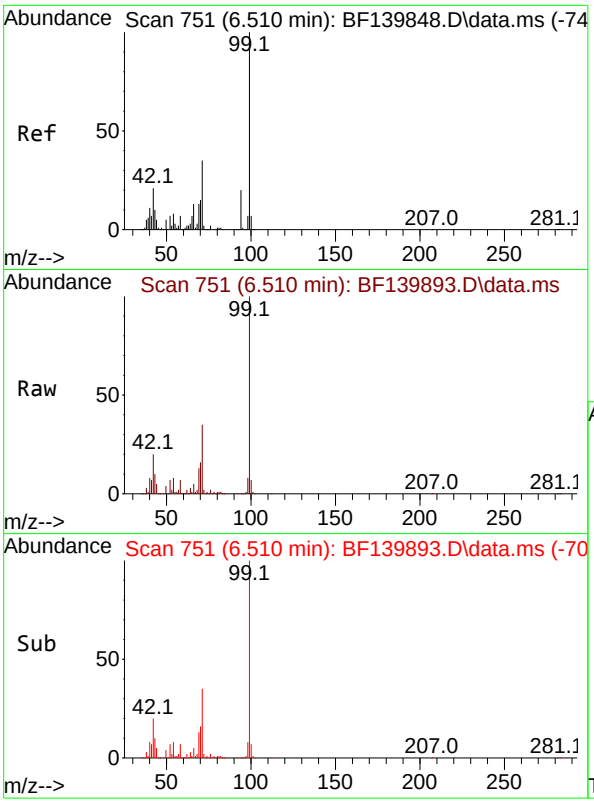


#5
2-Fluorophenol
Concen: 137.765 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:112 Resp: 1477979

Ion	Ratio	Lower	Upper
112	100		
64	64.9	53.0	79.6
63	33.2	27.0	40.4



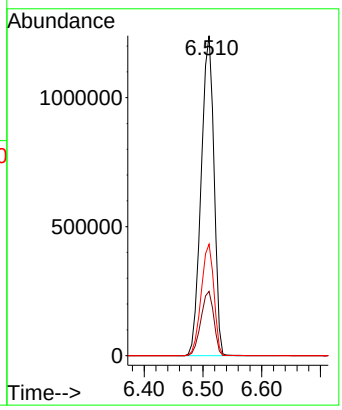


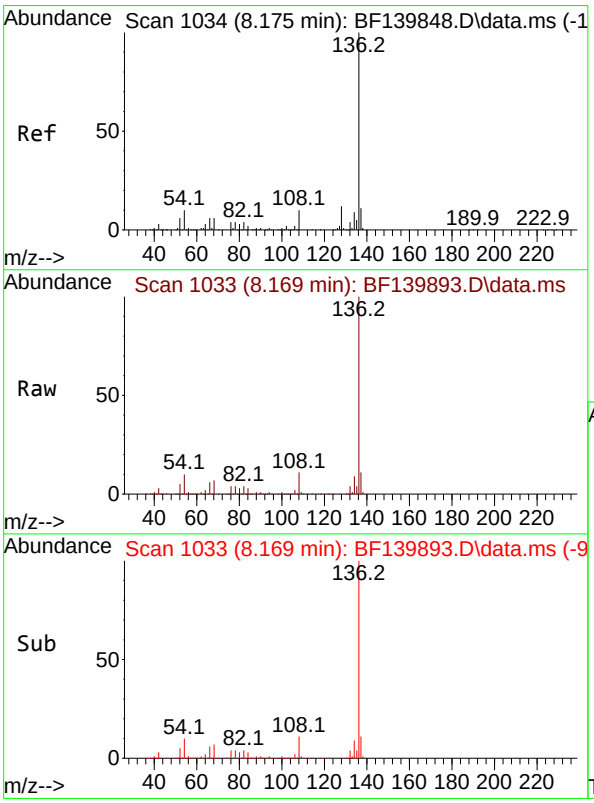
#7
Phenol-d6
Concen: 135.679 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion: 99 Resp: 1885243

Ion	Ratio	Lower	Upper
99	100		
42	20.1	16.7	25.1
71	34.9	27.7	41.5

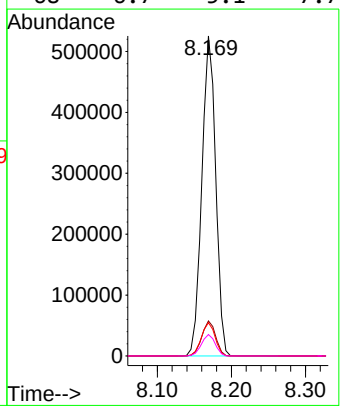


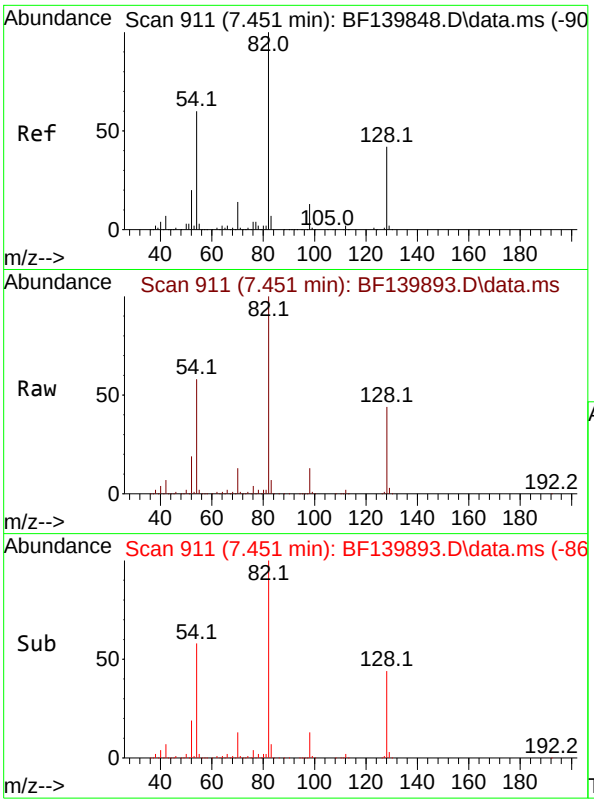


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:136 Resp: 682521

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	10.4	8.4	12.6
68	6.7	5.1	7.7



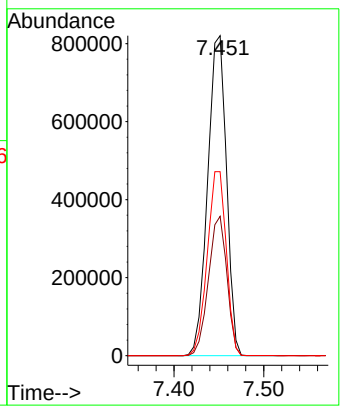


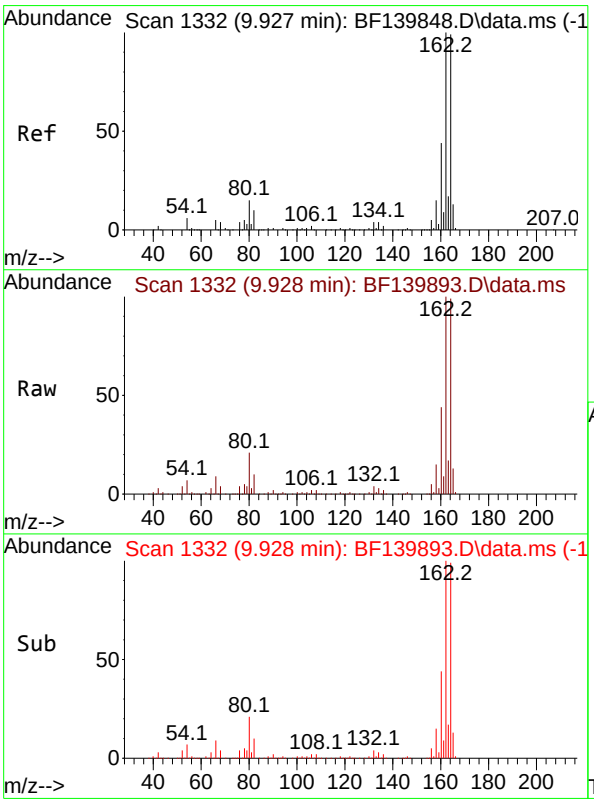
#23
Nitrobenzene-d5
Concen: 96.913 ng
RT: 7.451 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion: 82 Resp: 1193449

Ion	Ratio	Lower	Upper
82	100		
128	43.6	33.4	50.0
54	57.5	47.8	71.8

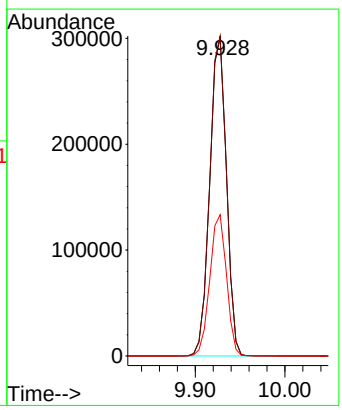


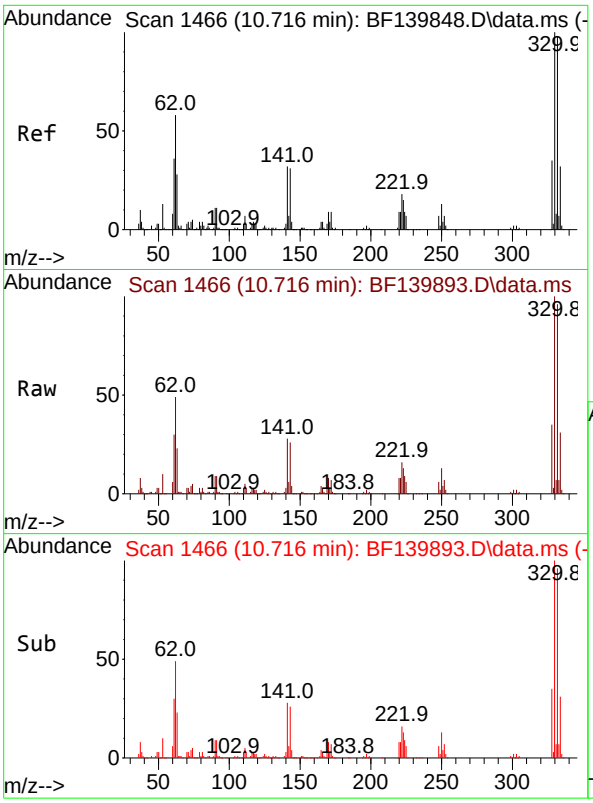


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1332
Delta R.T. 0.001 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:164 Resp: 387913

Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.0	121.4
160	44.4	35.4	53.0



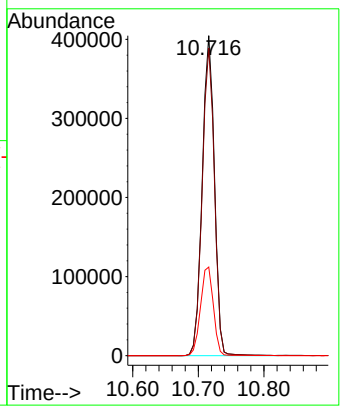


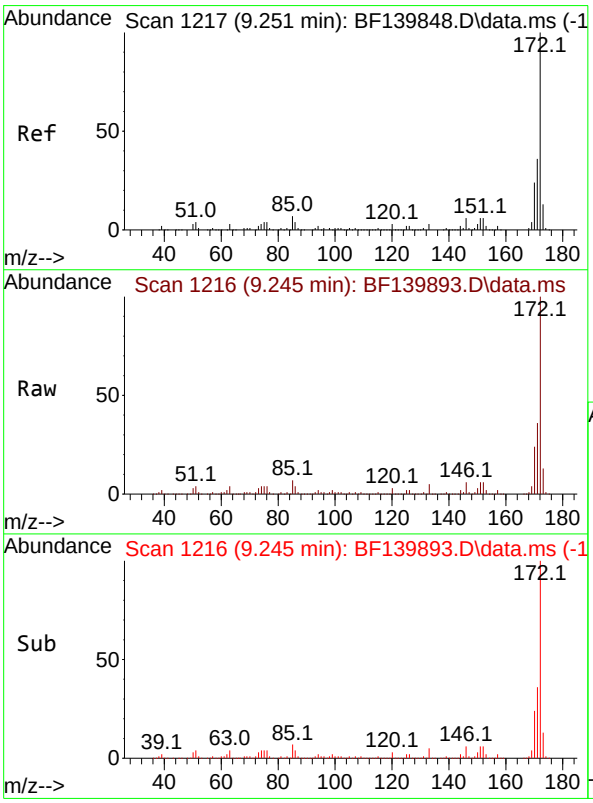
#42
2,4,6-Tribromophenol
Concen: 145.003 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion:330 Resp: 526130

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.1	117.1
141	29.3	26.6	39.8

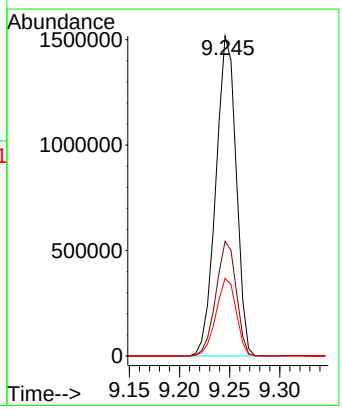


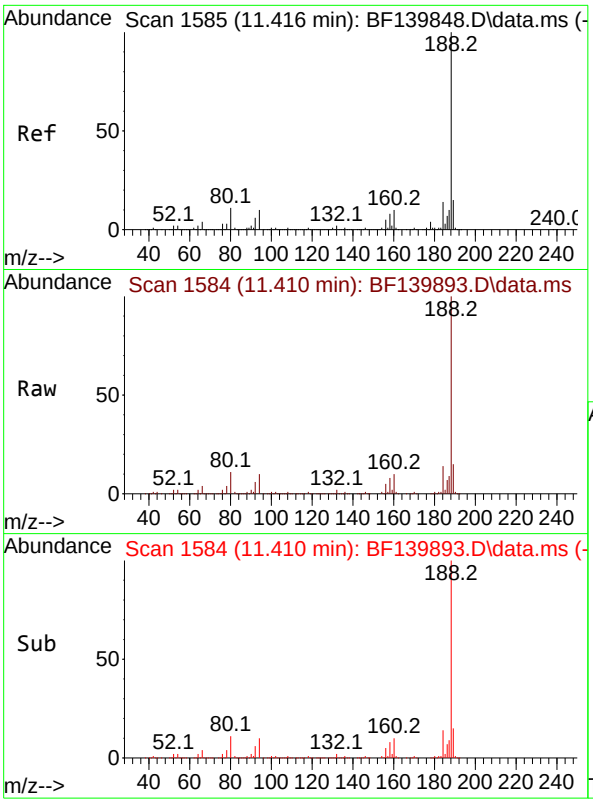


#45
2-Fluorobiphenyl
Concen: 91.177 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:172 Resp: 2140061

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.2	19.1	28.7



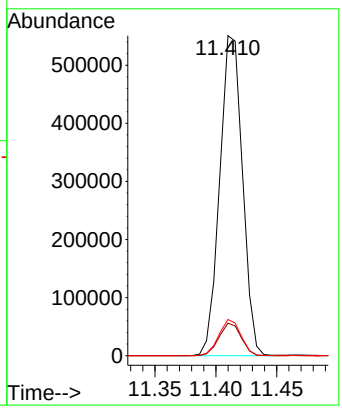


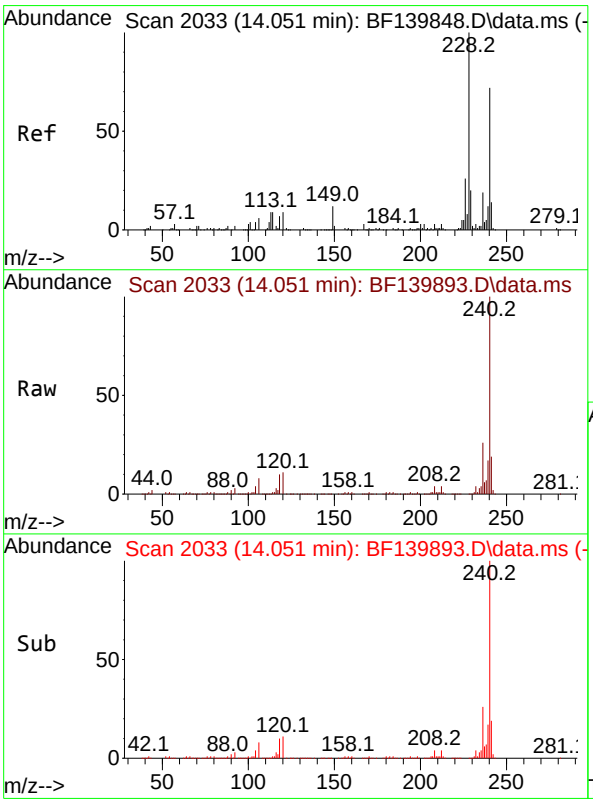
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion:188 Resp: 717487

Ion	Ratio	Lower	Upper
188	100		
94	10.2	7.9	11.9
80	11.3	9.0	13.4

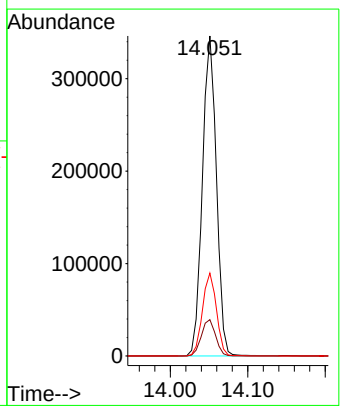


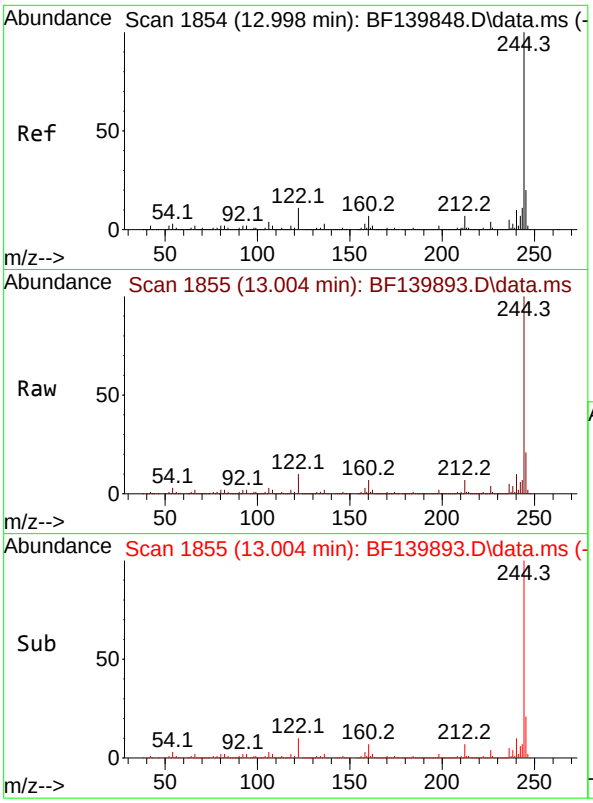


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:240 Resp: 434664

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.4	14.2
236	25.9	20.9	31.3



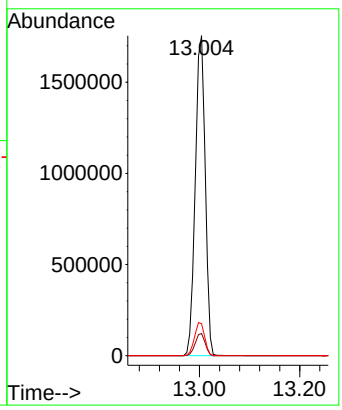


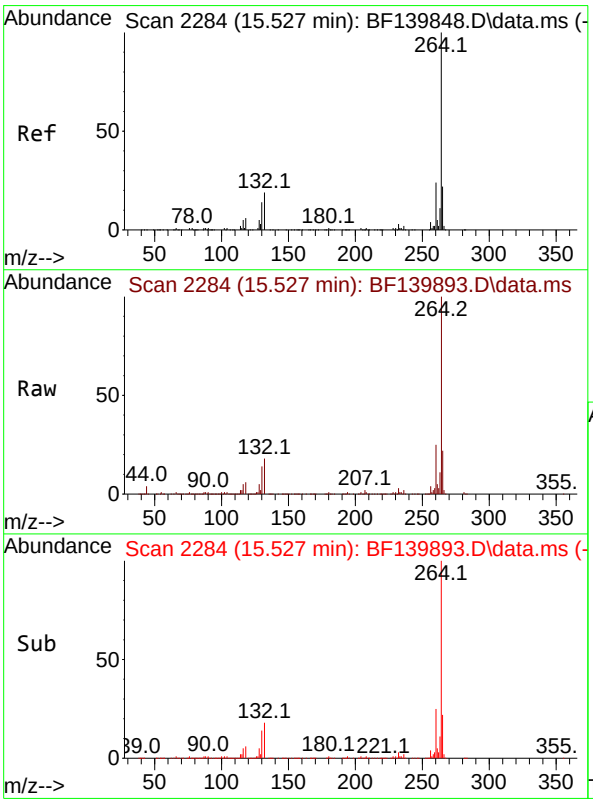
#79
Terphenyl-d14
Concen: 90.421 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion:244 Resp: 2411993

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.0	8.6	13.0

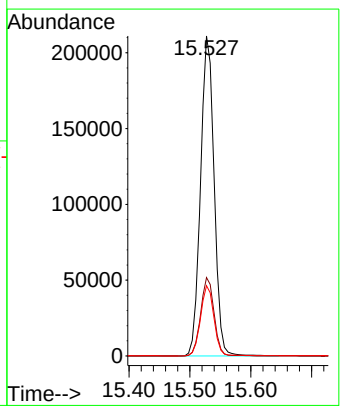




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:264 Resp: 327943

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	22.0	17.4	26.0



Sample Results: **BF139893.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

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: BF139893.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.246	15	26	44	rVB	151286	297446	4.69%	0.743%
2	5.134	509	517	529	rVB	237957	395531	6.23%	0.989%
3	5.516	575	582	587	rBV	3767406	5418586	85.41%	13.543%
4	6.510	743	751	756	rBV	3612725	5478088	86.35%	13.691%
5	6.893	810	816	821	rVB	803939	1041515	16.42%	2.603%
6	7.451	904	911	916	rBV	2469764	3601688	56.77%	9.002%
7	8.169	1027	1033	1038	rBV	1100451	1425869	22.48%	3.564%
8	9.245	1209	1216	1221	rBV	4551147	6343970	100.00%	15.855%
9	9.928	1325	1332	1337	rBV	1280335	1661014	26.18%	4.151%
10	10.716	1459	1466	1471	rBV	2900294	3906673	61.58%	9.764%
11	11.410	1579	1584	1590	rBV	1341130	1735066	27.35%	4.336%
12	13.004	1848	1855	1860	rBV	4553710	6304757	99.38%	15.757%
13	14.051	2027	2033	2038	rBV	961627	1208233	19.05%	3.020%
14	15.527	2278	2284	2295	rVB	567270	874191	13.78%	2.185%
15	17.251	2568	2577	2597	rVB2	79164	318735	5.02%	0.797%

Sum of corrected areas: 40011362

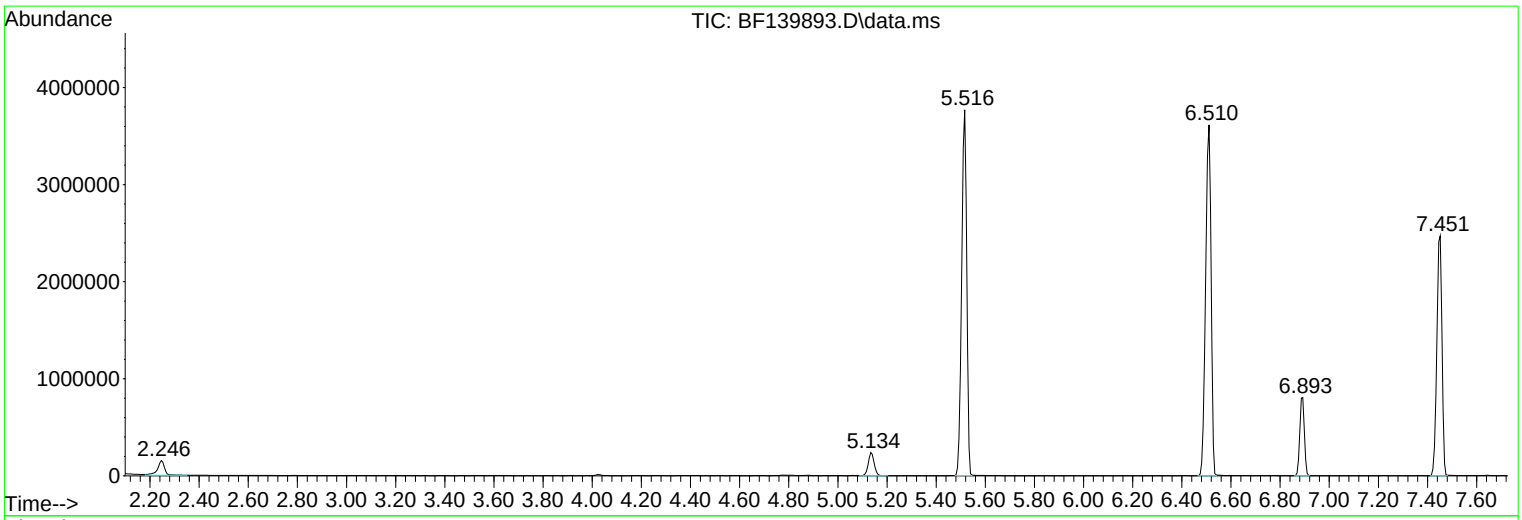
Sample Results: **BF139893.D**

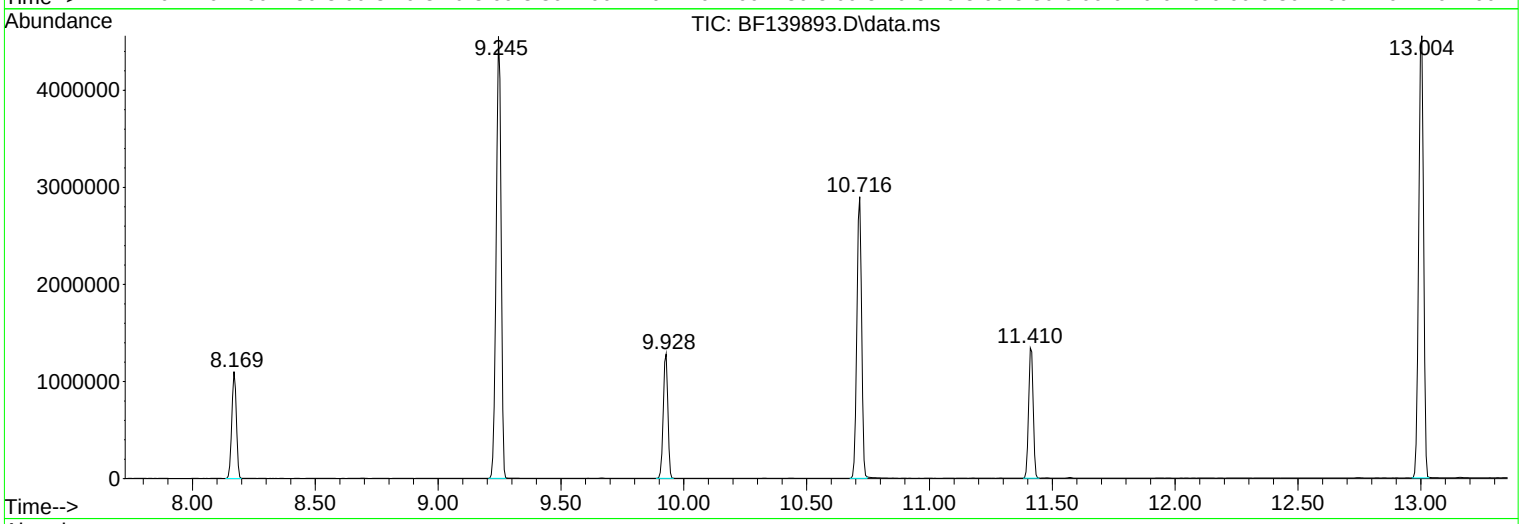
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

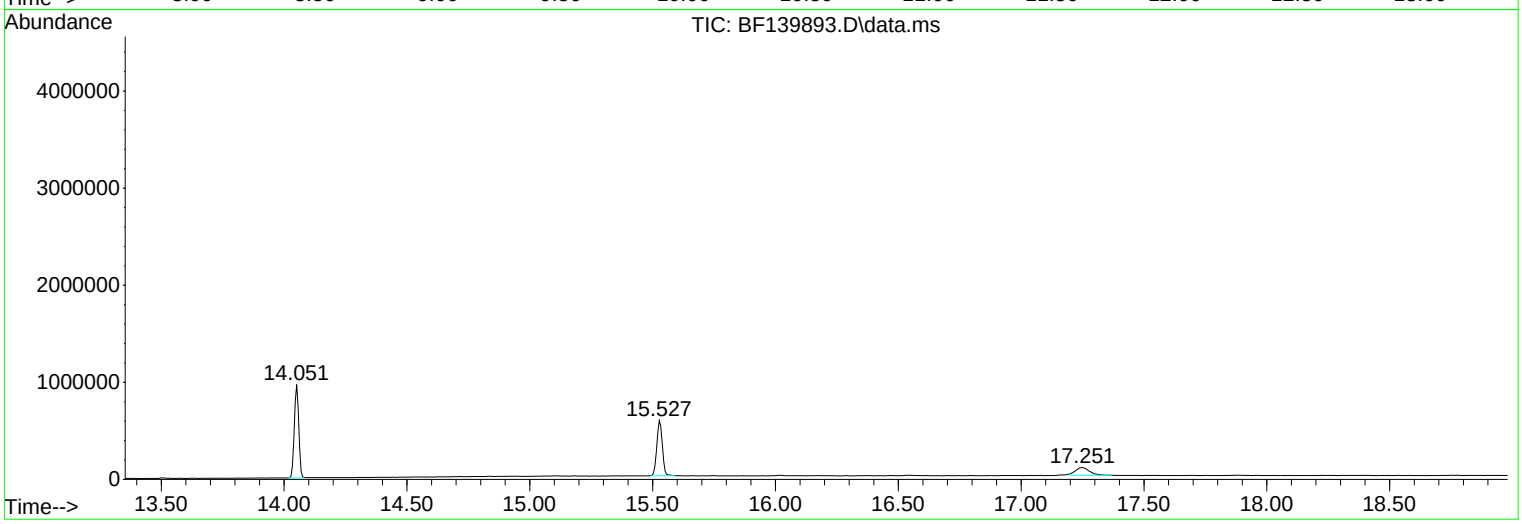
Instrument :
BNA_F
ClientSampleId :
PB164123BL

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\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

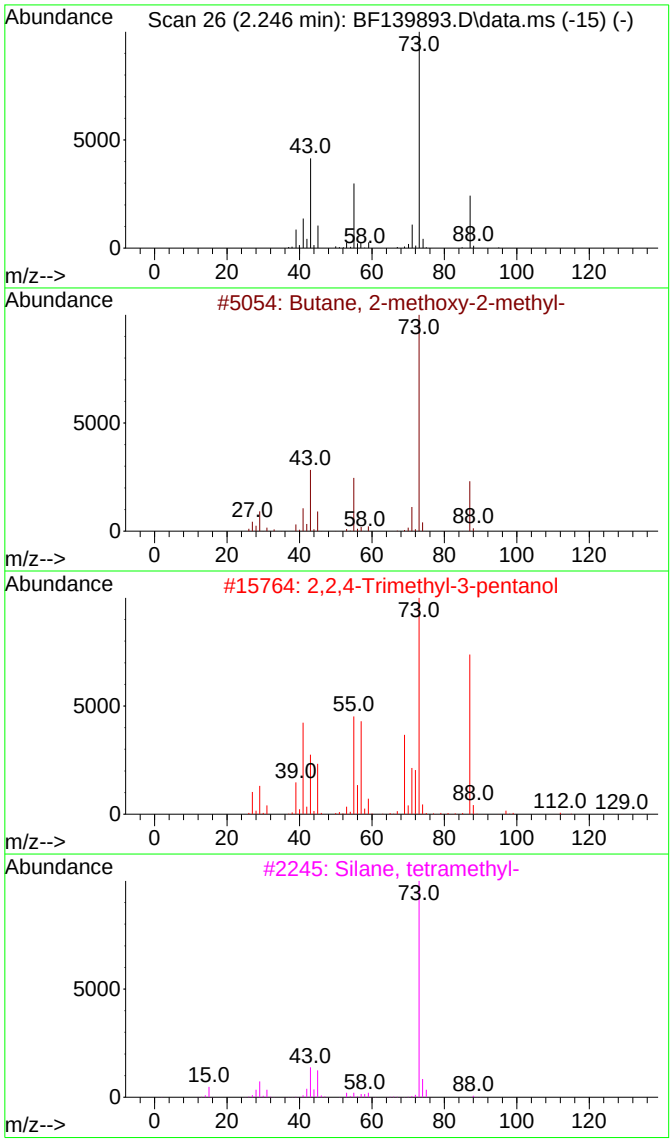
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

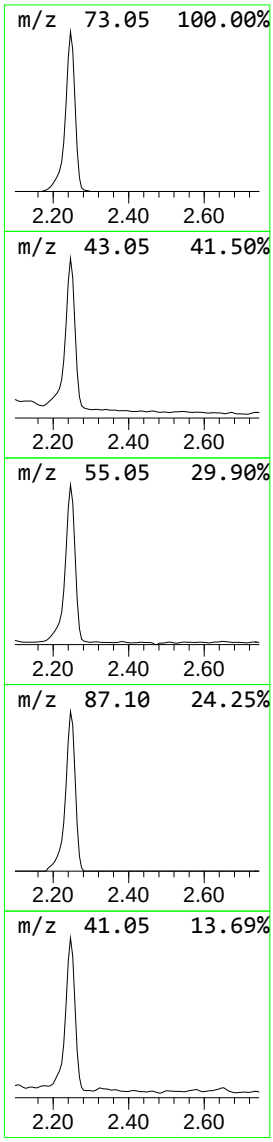
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.246	5.71 ng	297446	1,4-Dichlorobenzene-d4	6.893

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	Silane, tetramethyl-	88	C4H12Si	000075-76-3	35
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

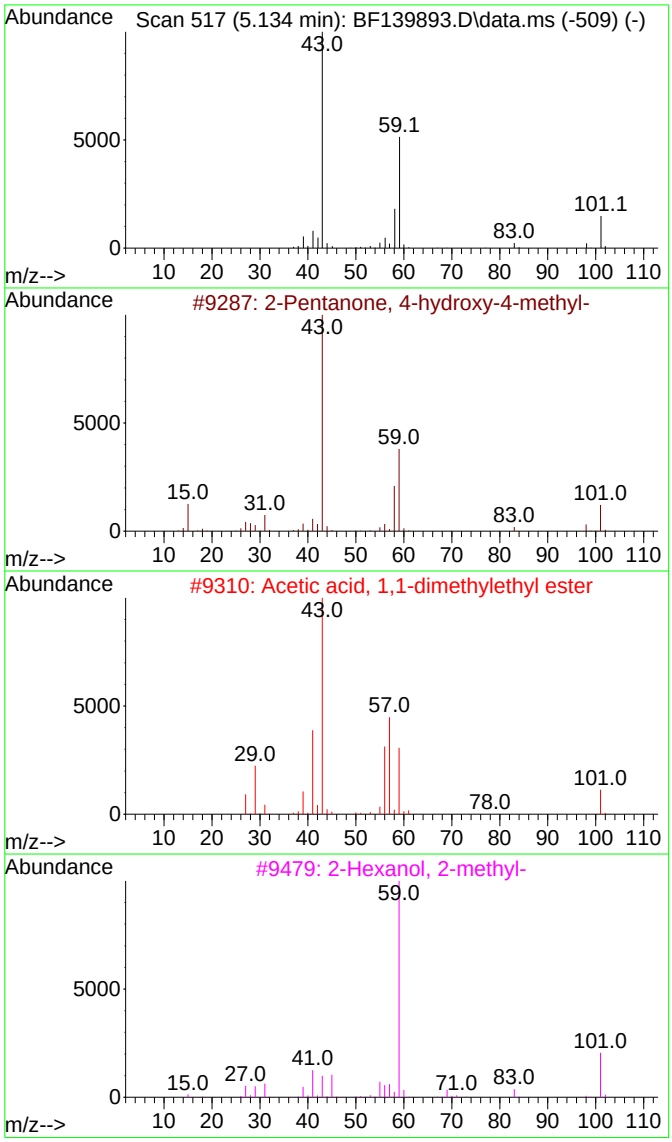
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

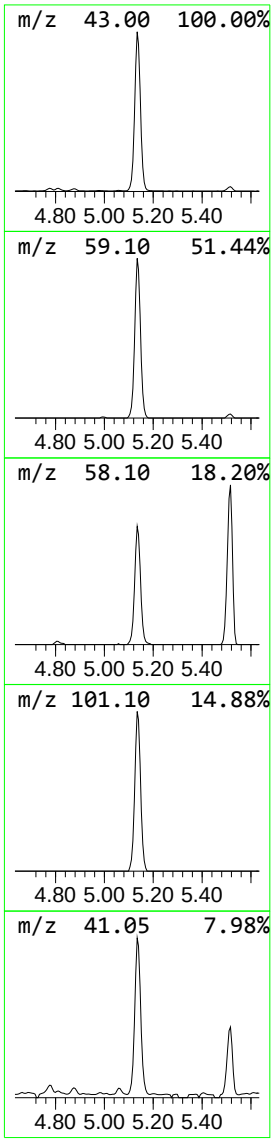
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	7.60 ng	395531	1,4-Dichlorobenzene-d4	6.893

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	25
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

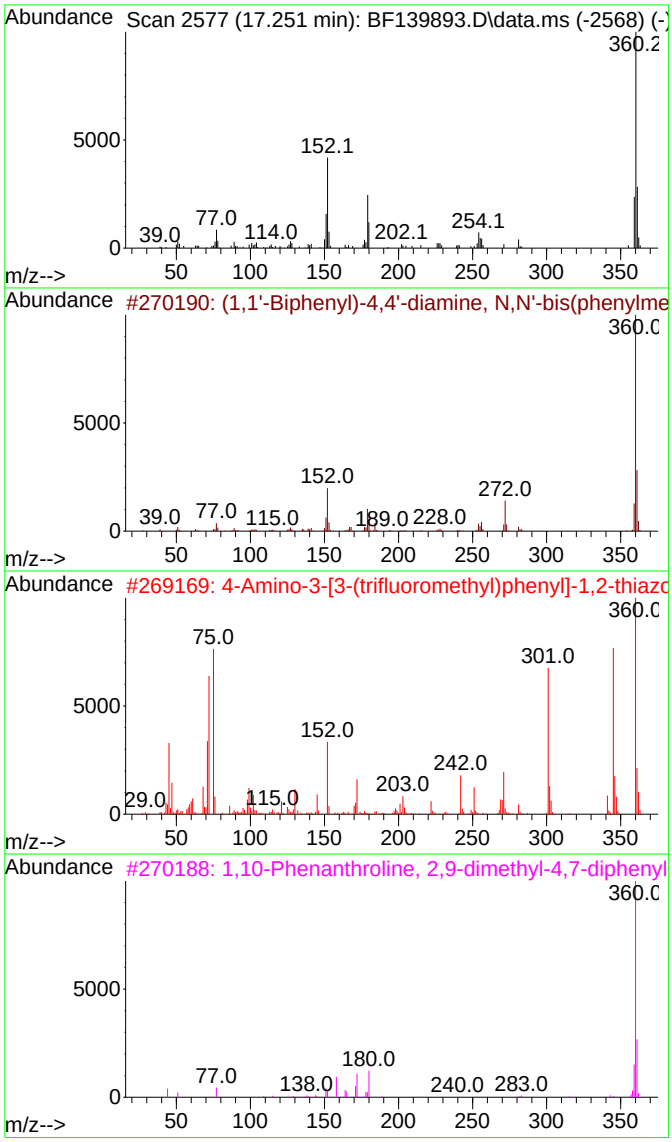
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

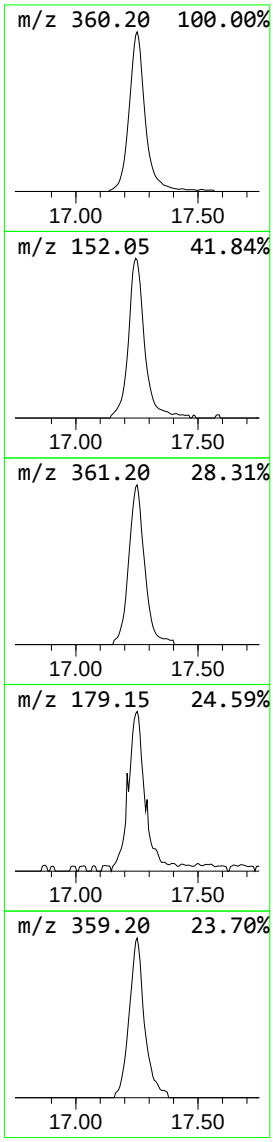
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (1,1'-Biphenyl)-4,4'-diamin... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.251	7.29 ng	318735	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1,1'-Biphenyl)-4,4'-diamine, N,...	360	C26H20N2	006311-48-4	93
2	4-Amino-3-[3-(trifluoromethyl)ph...	360	C14H15F3N2O2SSi	1010500-98-0	58
3	1,10-Phenanthroline, 2,9-dimethy...	360	C26H20N2	004733-39-5	49
4	Benzaldehyde, 4-hydroxy-3,5-dime...	360	C18H20N2O6	014414-32-5	49
5	Androst-4-ene-3,17-dione, 12-hyd...	360	C21H32N2O3	069688-31-9	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

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...	2.246	5.7	ng	297446	1	6.893	1041520	20.0
2-Pentanone, 4-...	5.134	7.6	ng	395531	1	6.893	1041520	20.0
(1,1'-Biphenyl)...	17.251	7.3	ng	318735	6	15.527	874191	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Quant Time: Oct 22 15:24:16 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

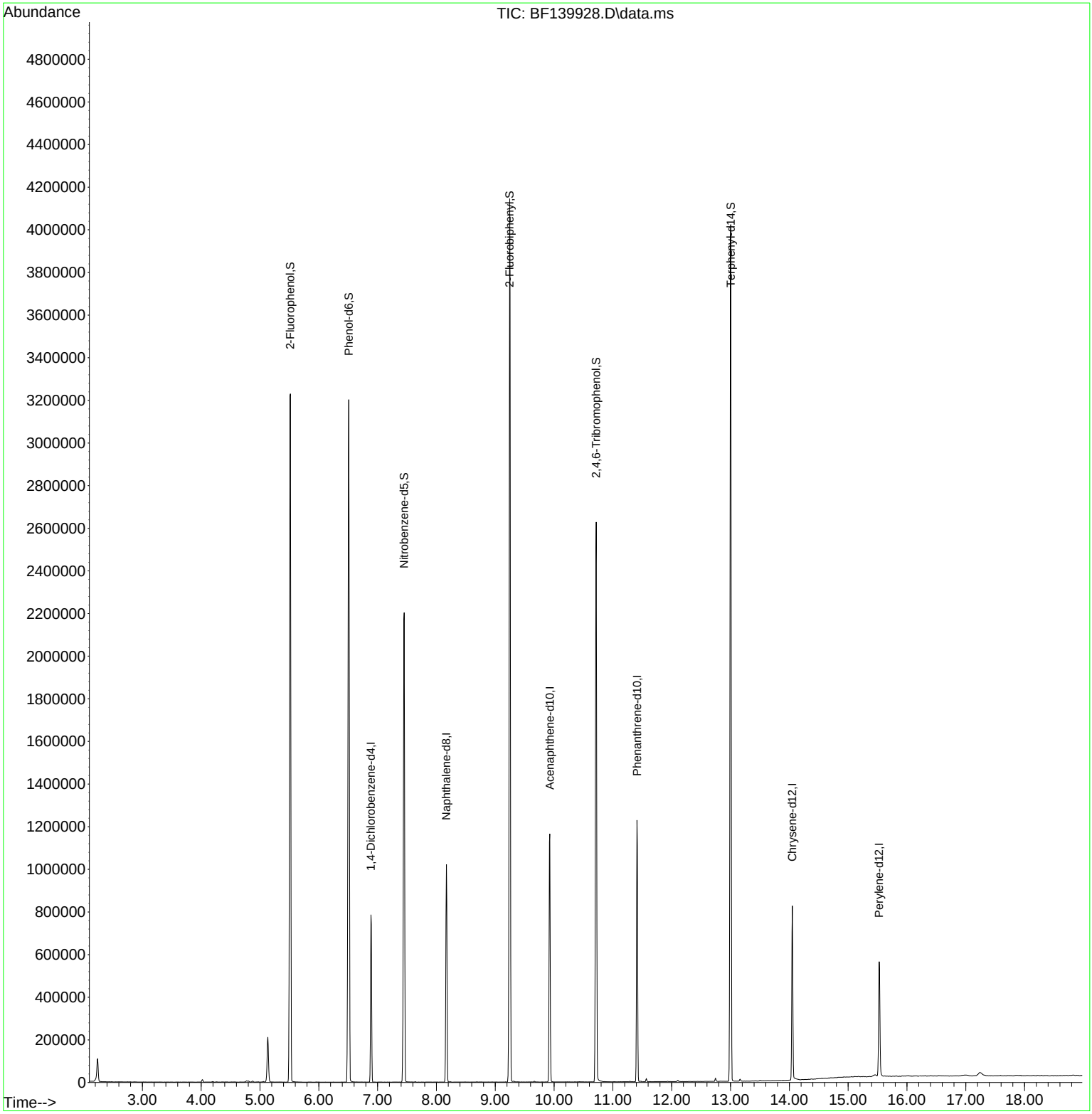
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	163319	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	633200	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	357885	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	642786	20.000	ng	0.00
76) Chrysene-d12	14.051	240	375705	20.000	ng	0.00
86) Perylene-d12	15.527	264	319185	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1329585	127.447	ng	0.02
7) Phenol-d6	6.510	99	1686016	124.782	ng	0.00
23) Nitrobenzene-d5	7.451	82	1085362	95.001	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	490579	146.549	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1924724	88.883	ng	0.00
79) Terphenyl-d14	13.004	244	2163031	93.813	ng	0.00
Target Compounds						Qvalue

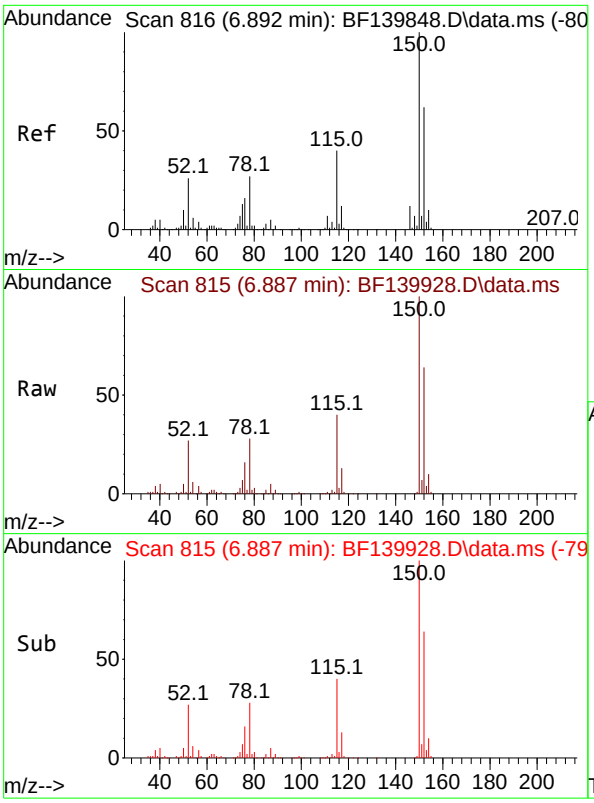
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Quant Time: Oct 22 15:24:16 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



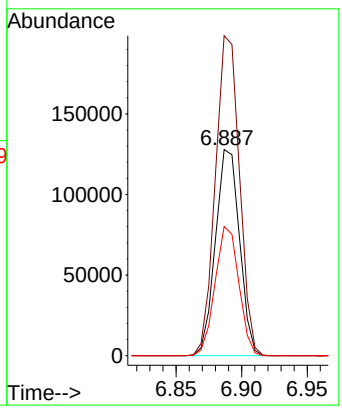


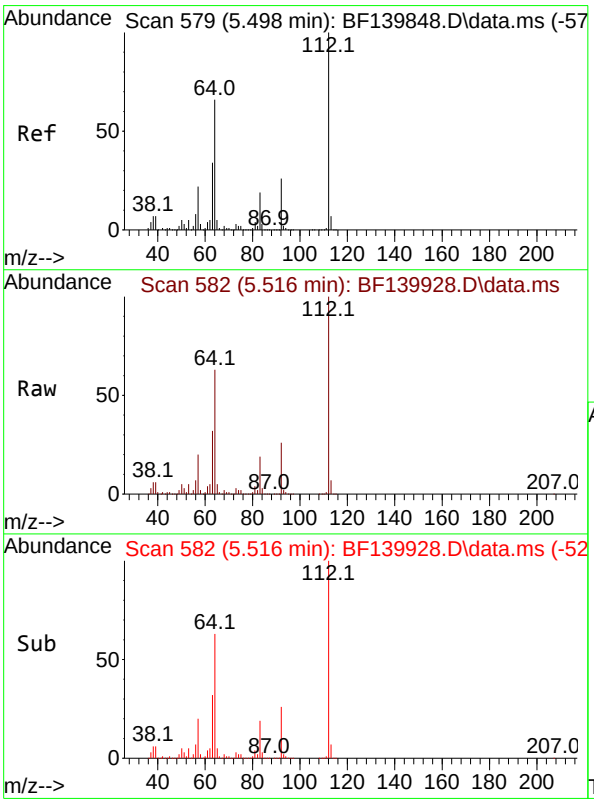
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion:152 Resp: 163319

Ion	Ratio	Lower	Upper
152	100		
150	155.2	130.2	195.2
115	62.6	51.4	77.2

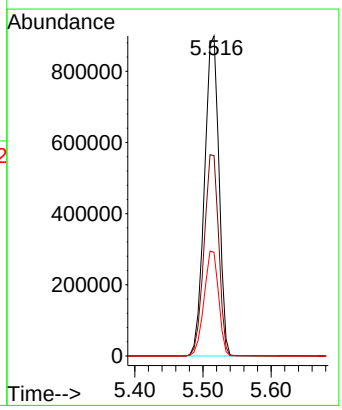


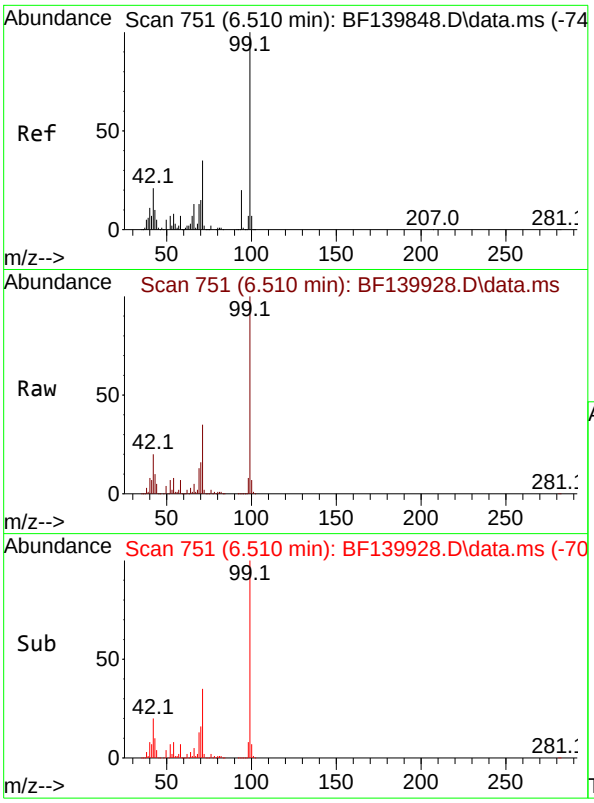


#5
2-Fluorophenol
Concen: 127.447 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:112 Resp: 1329585

Ion	Ratio	Lower	Upper
112	100		
64	62.6	53.0	79.6
63	32.4	27.0	40.4



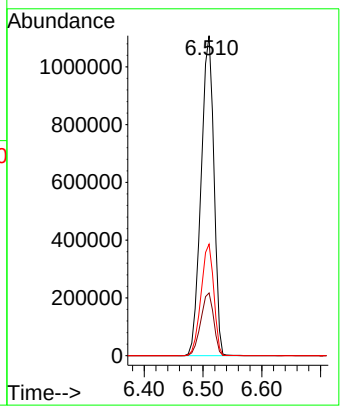


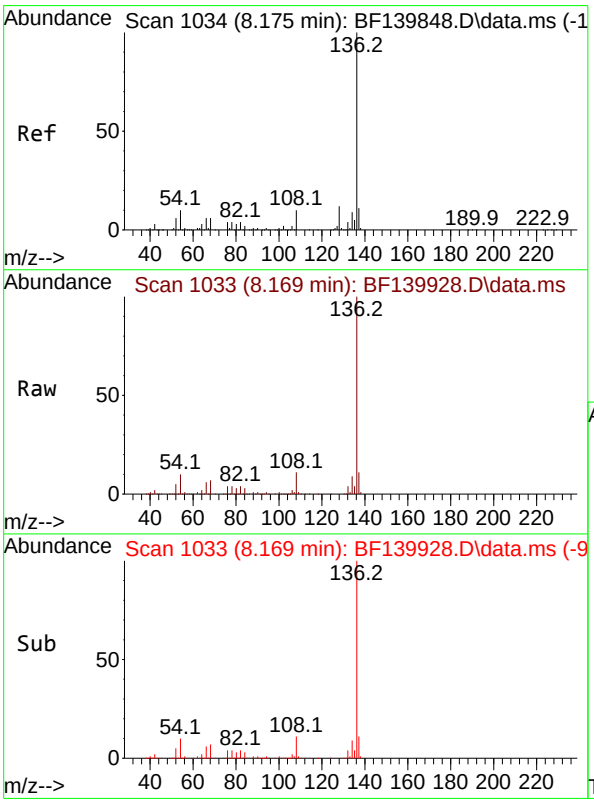
#7
Phenol-d6
Concen: 124.782 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion: 99 Resp: 1686016

Ion	Ratio	Lower	Upper
99	100		
42	19.6	16.7	25.1
71	34.9	27.7	41.5

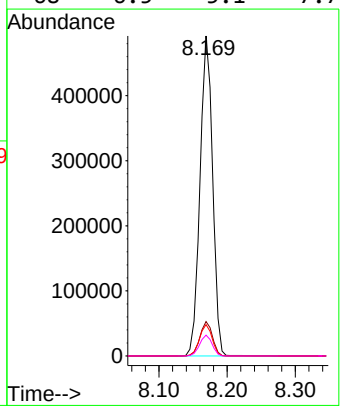


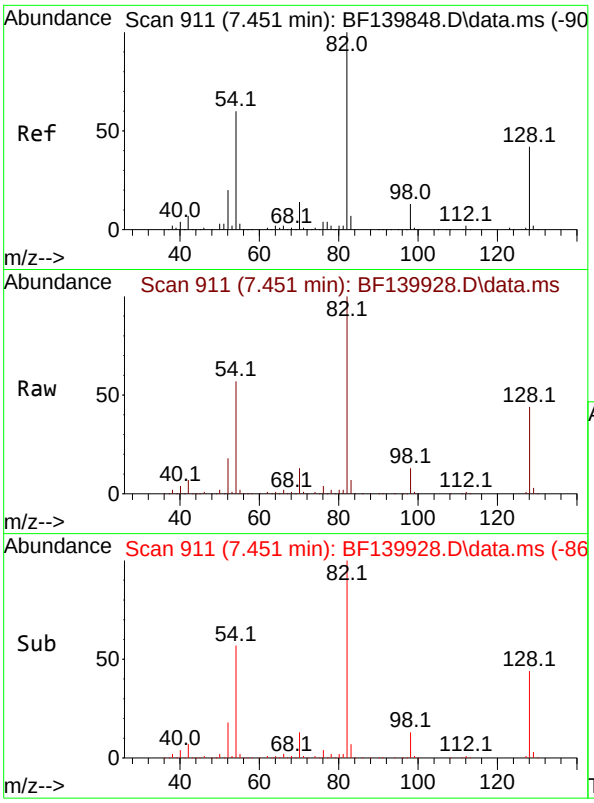


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:136 Resp: 633200

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	9.8	8.4	12.6
68	6.5	5.1	7.7



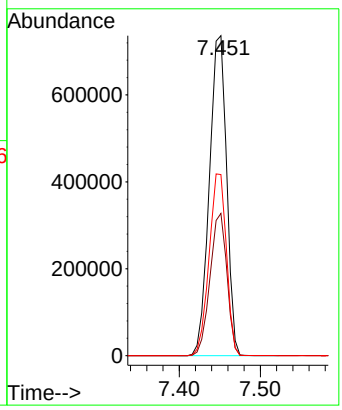


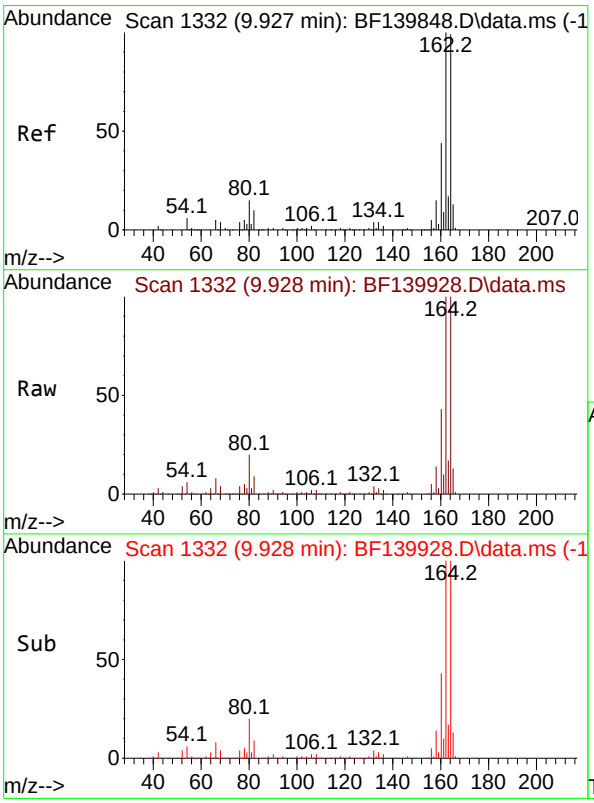
#23
Nitrobenzene-d5
Concen: 95.001 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion: 82 Resp: 1085362

Ion	Ratio	Lower	Upper
82	100		
128	44.4	33.4	50.0
54	56.6	47.8	71.8

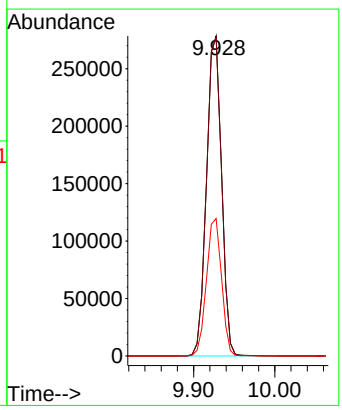


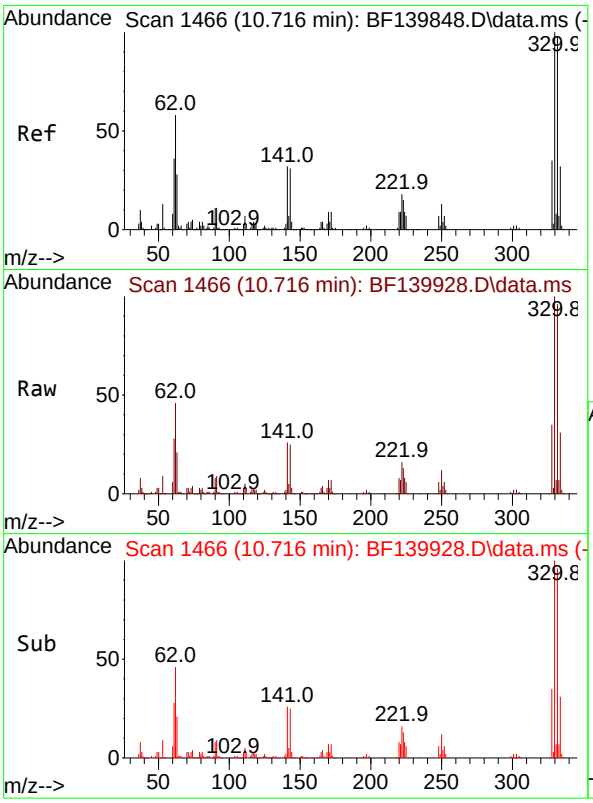


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1332
Delta R.T. 0.001 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:164 Resp: 357885

Ion	Ratio	Lower	Upper
164	100		
162	99.6	81.0	121.4
160	43.0	35.4	53.0



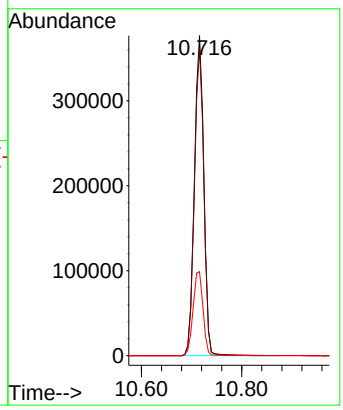


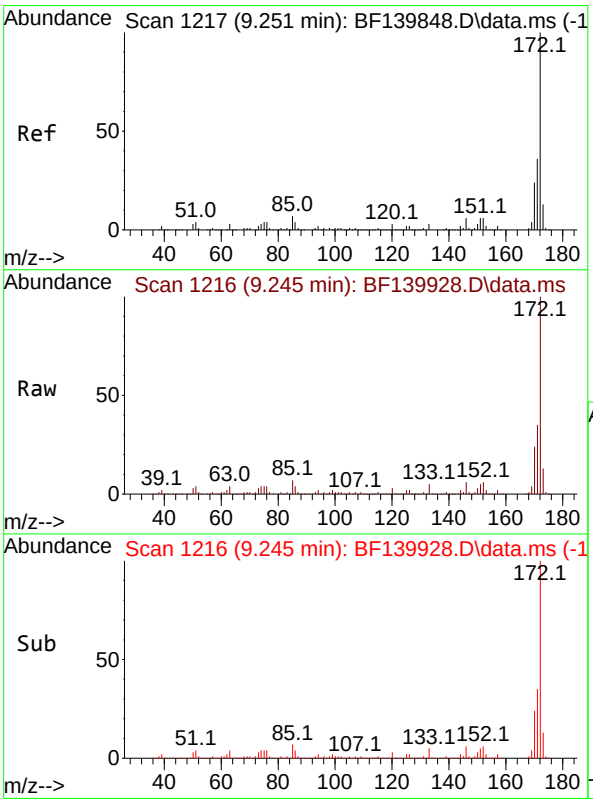
#42
2,4,6-Tribromophenol
Concen: 146.549 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion:330 Resp: 490579

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.1	117.1
141	27.8	26.6	39.8

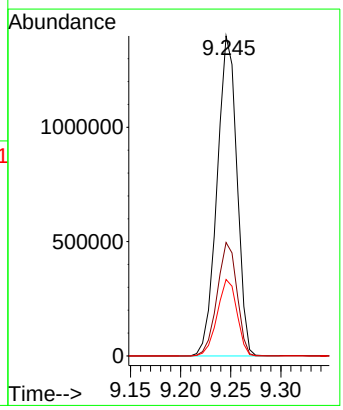


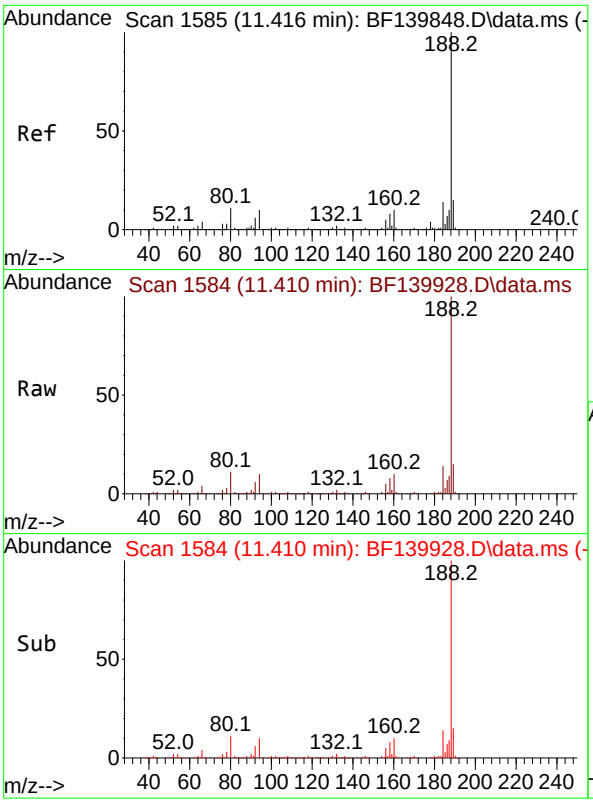


#45
2-Fluorobiphenyl
Concen: 88.883 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:172 Resp: 1924724

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	23.9	19.1	28.7



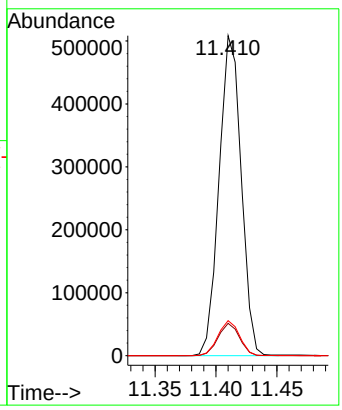


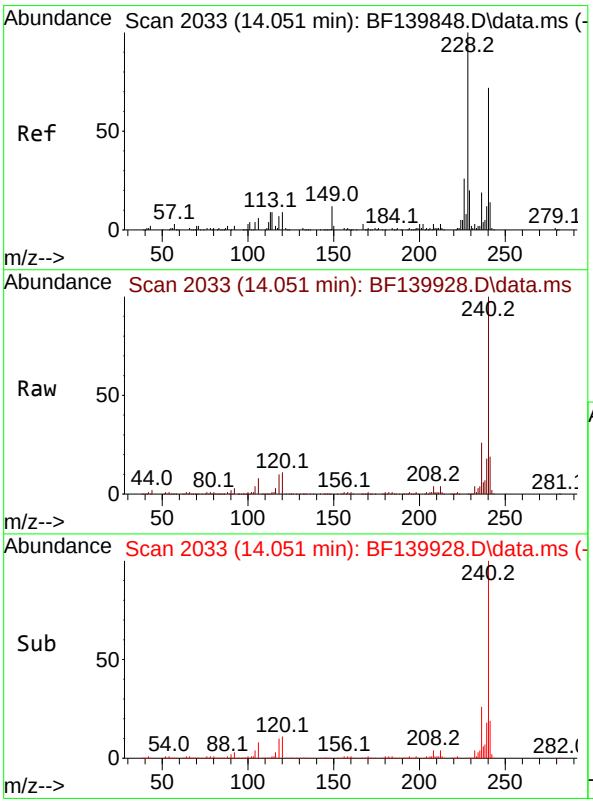
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion:188 Resp: 642786

Ion	Ratio	Lower	Upper
188	100		
94	10.1	7.9	11.9
80	11.0	9.0	13.4

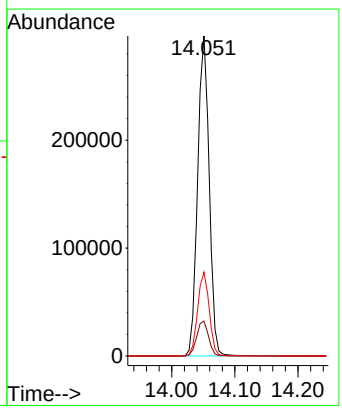


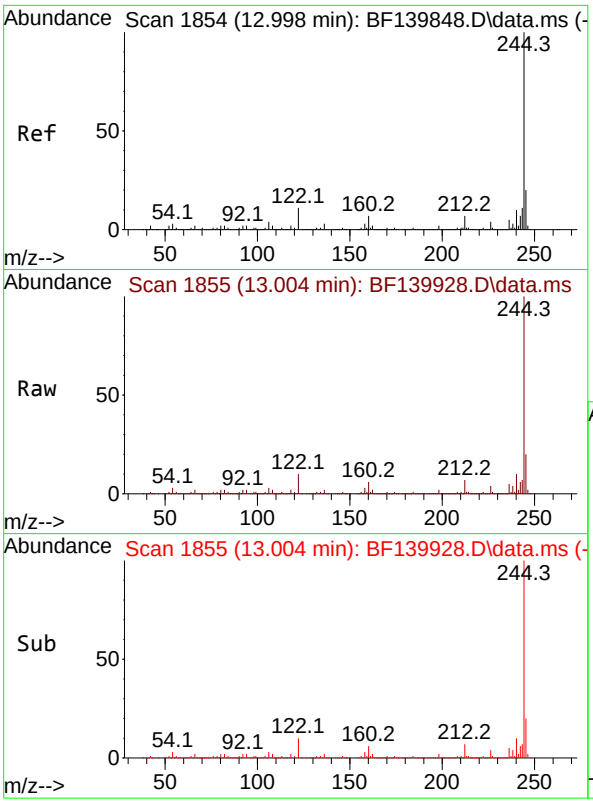


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:240 Resp: 375705

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.4	14.2
236	26.2	20.9	31.3



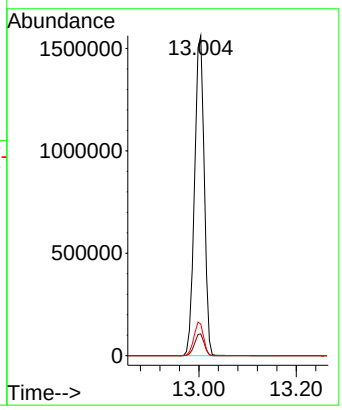


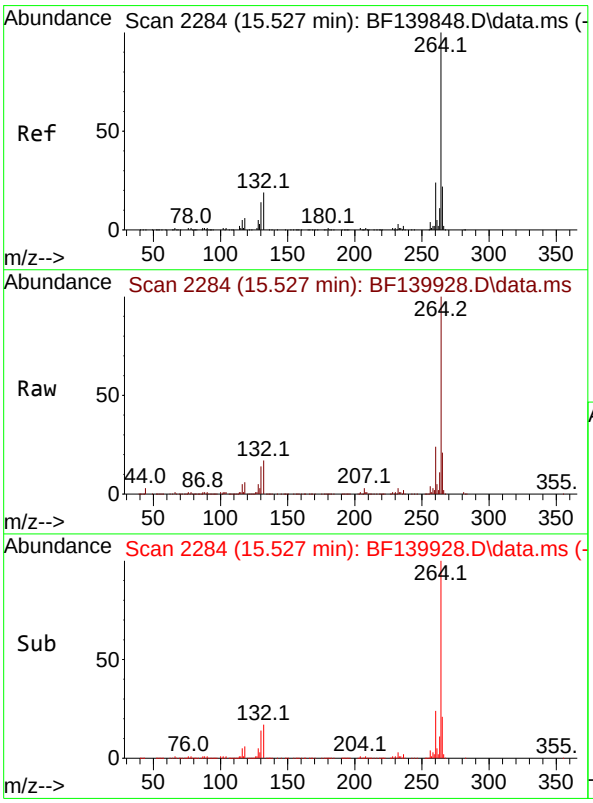
#79
Terphenyl-d14
Concen: 93.813 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion:244 Resp: 2163031

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	9.9	8.6	13.0

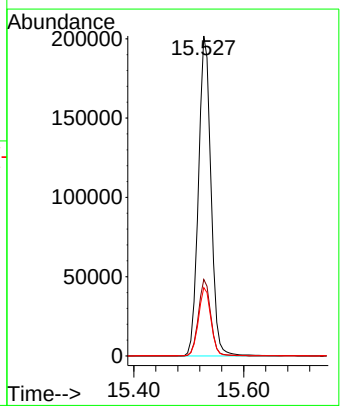




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:264 Resp: 319185

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	21.4	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BL

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: BF139928.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.240	14	25	32	rVB	105942	196094	3.48%	0.552%
2	5.134	508	517	525	rBV	211232	355793	6.31%	1.002%
3	5.516	574	582	587	rBV	3228533	4811074	85.29%	13.548%
4	6.510	743	751	756	rBV	3201342	4863415	86.22%	13.695%
5	6.887	810	815	821	rVB	785314	988889	17.53%	2.785%
6	7.451	904	911	916	rBV	2202504	3245093	57.53%	9.138%
7	8.169	1027	1033	1038	rBV	1021389	1307293	23.18%	3.681%
8	9.245	1209	1216	1221	rBV	4143378	5640850	100.00%	15.884%
9	9.928	1326	1332	1337	rBV	1164032	1504574	26.67%	4.237%
10	10.716	1459	1466	1471	rBV	2625645	3523721	62.47%	9.922%
11	11.410	1579	1584	1590	rBV	1226772	1541456	27.33%	4.341%
12	13.004	1848	1855	1860	rBV	4019094	5615006	99.54%	15.811%
13	14.051	2027	2033	2056	rBV	817601	1077617	19.10%	3.034%
14	15.527	2278	2284	2298	rVB	537431	841650	14.92%	2.370%

Sum of corrected areas: 35512525

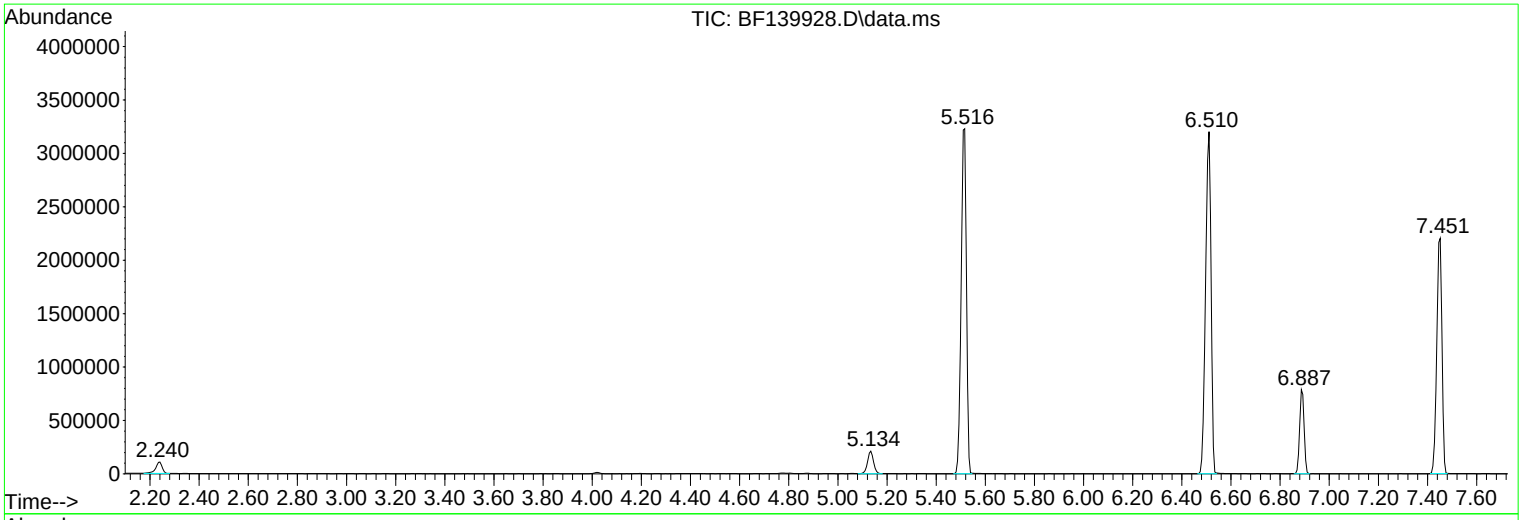
Sample Results: **BF139928.D**

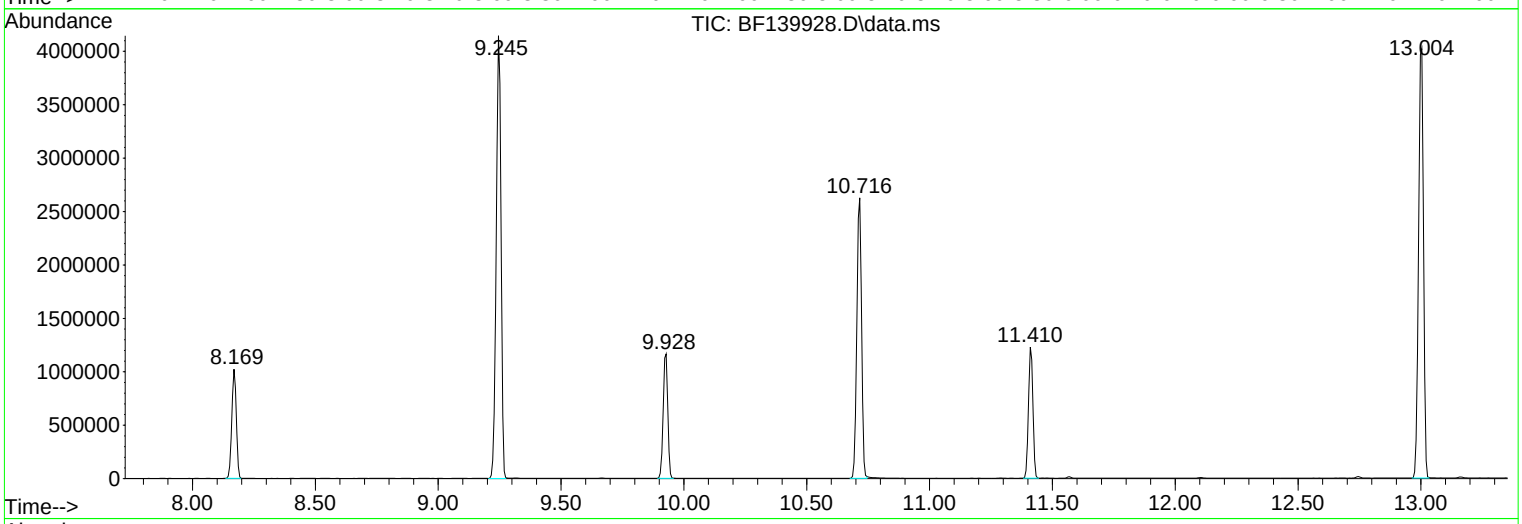
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

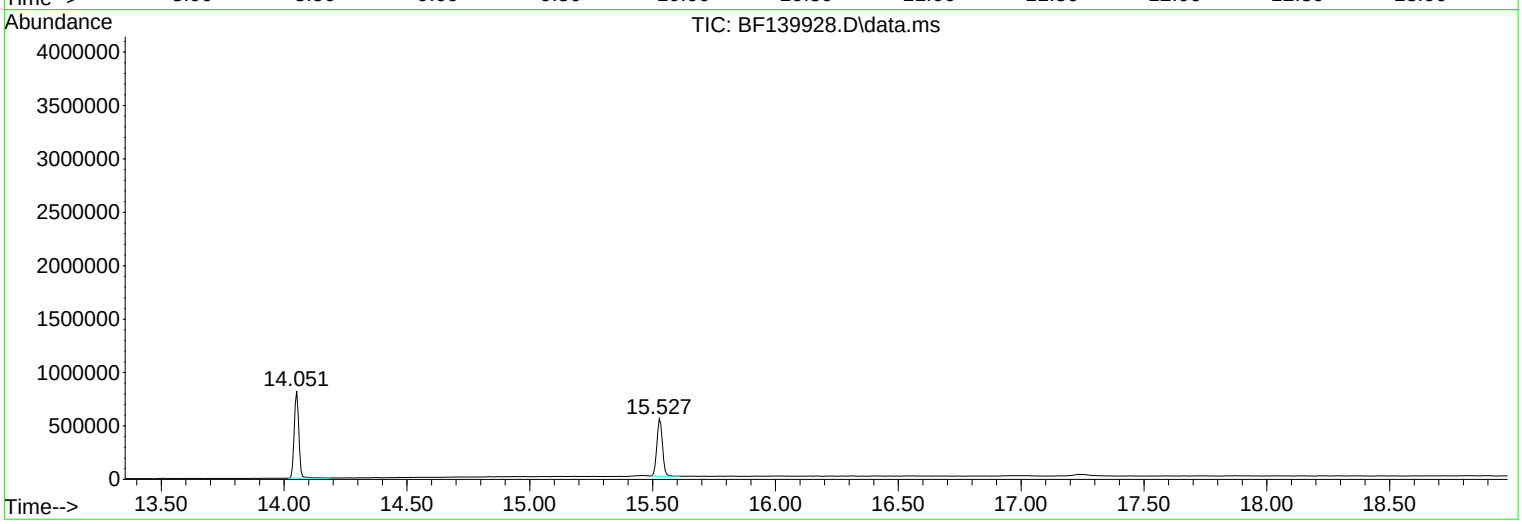
Instrument :
BNA_F
ClientSampleId :
PB164154BL

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\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

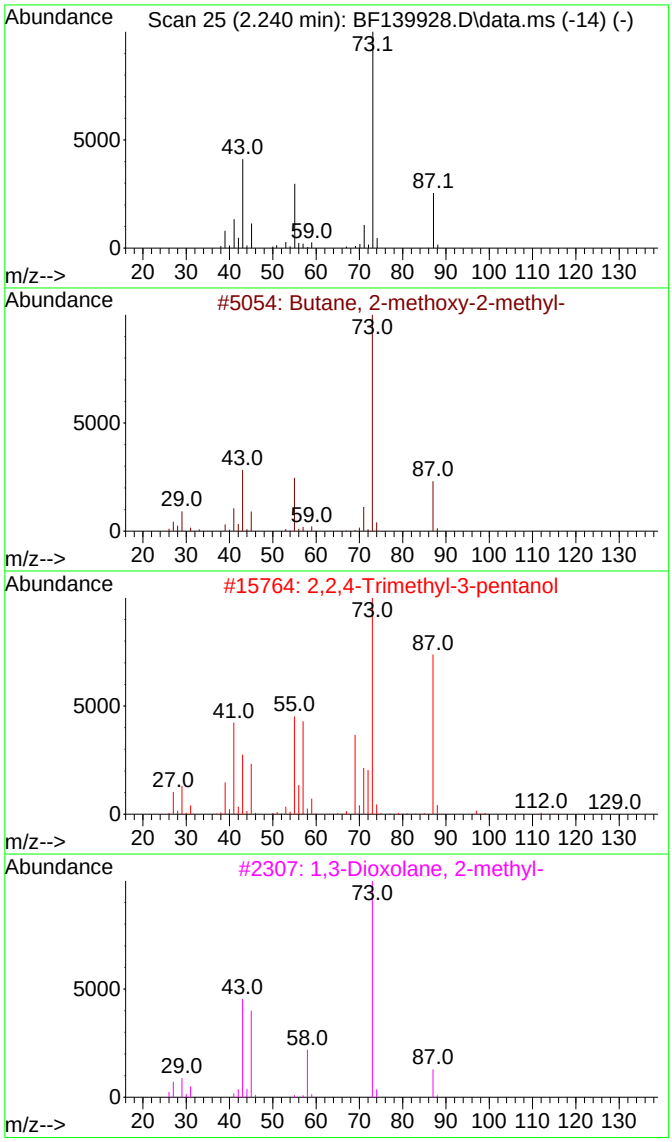
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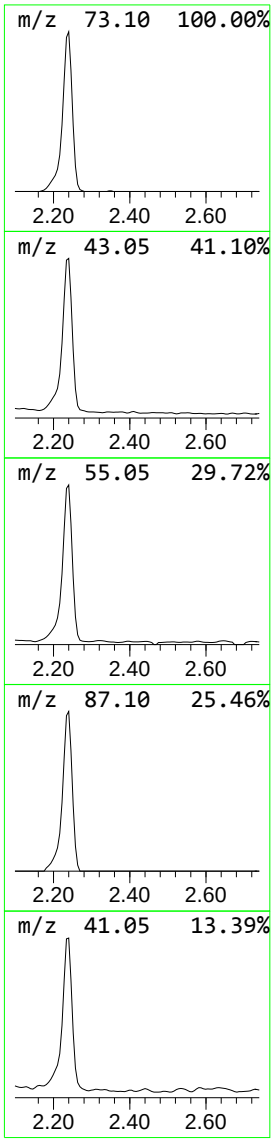
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.240	3.97 ng	196094	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	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17
5	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BL

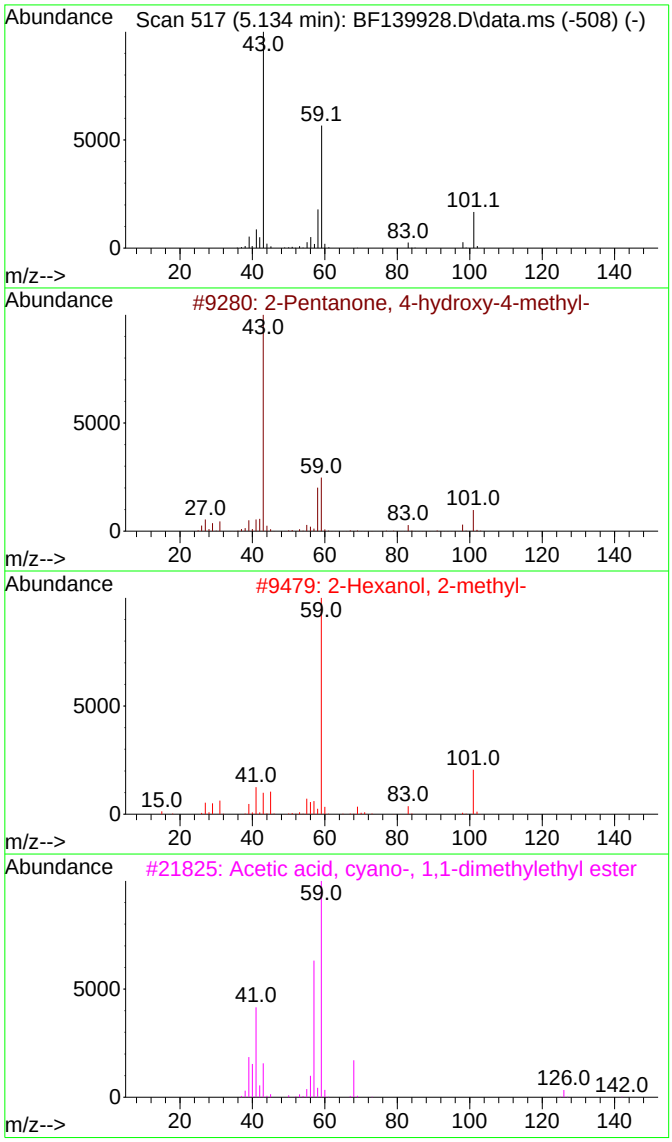
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

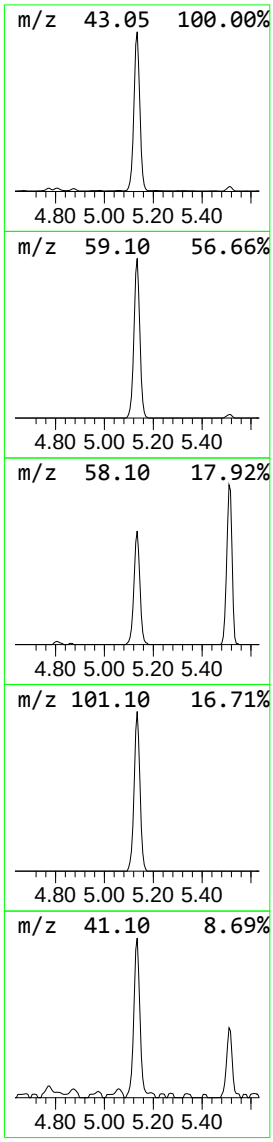
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	7.20 ng	355793	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	38
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
4	3-Octanol	130	C8H18O	000589-98-0	33
5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BL

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...	2.240	4.0	ng	196094	1	6.887	988889	20.0
2-Pentanone, 4-...	5.134	7.2	ng	355793	1	6.887	988889	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139959.D
Acq On : 23 Oct 2024 12:39
Operator : RC/JU
Sample : PB164123BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 23 13:22:34 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 :
PB164123BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	157015	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	616380	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	348472	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	625574	20.000	ng		0.00
76) Chrysene-d12	14.057	240	318250	20.000	ng		0.00
86) Perylene-d12	15.533	264	349349	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	1314086	131.018	ng		0.02
7) Phenol-d6	6.516	99	1659988	127.788	ng		0.00
23) Nitrobenzene-d5	7.451	82	1077187	96.858	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	515054	158.016	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	1931021	91.582	ng		0.00
79) Terphenyl-d14	13.004	244	2004549	102.635	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.763	88	175992	37.634	ng		96
3) Pyridine	3.516	79	471114	40.644	ng		96
4) n-Nitrosodimethylamine	3.469	42	267760	42.995	ng		95
6) Aniline	6.551	93	557615	46.059	ng		98
8) 2-Chlorophenol	6.675	128	511606	49.896	ng		97
9) Benzaldehyde	6.440	77	126825	17.355	ng		97
10) Phenol	6.528	94	639467m	47.749	ng		
11) bis(2-Chloroethyl)ether	6.628	93	485330	46.886	ng		98
12) 1,3-Dichlorobenzene	6.834	146	537187	45.640	ng		98
13) 1,4-Dichlorobenzene	6.910	146	546217	46.450	ng		99
14) 1,2-Dichlorobenzene	7.063	146	524912	47.829	ng		98
15) Benzyl Alcohol	7.028	79	471637	49.496	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	810592	45.925	ng		97
17) 2-Methylphenol	7.140	107	431652	49.370	ng		99
18) Hexachloroethane	7.404	117	195039	46.512	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	367544	46.651	ng		96
20) 3+4-Methylphenols	7.292	107	518857	46.396	ng	#	81
22) Acetophenone	7.298	105	692884	45.895	ng		99
24) Nitrobenzene	7.475	77	555417	45.551	ng		98
25) Isophorone	7.710	82	1009777	47.838	ng		99
26) 2-Nitrophenol	7.787	139	268407	58.350	ng		95
27) 2,4-Dimethylphenol	7.822	122	428034	55.805	ng		100
28) bis(2-Chloroethoxy)met...	7.922	93	600864	46.984	ng		100
29) 2,4-Dichlorophenol	8.028	162	425845	48.743	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	442395	45.763	ng		99
31) Naphthalene	8.192	128	1480485	46.572	ng		100
32) Benzoic acid	7.934	122	331294	49.522	ng		94
33) 4-Chloroaniline	8.239	127	279577	25.792	ng		98
34) Hexachlorobutadiene	8.310	225	281463	46.339	ng		99
35) Caprolactam	8.610	113	144372m	51.971	ng		
36) 4-Chloro-3-methylphenol	8.716	107	471188	48.707	ng		98
37) 2-Methylnaphthalene	8.886	142	934188	47.983	ng		100
38) 1-Methylnaphthalene	8.986	142	875790	45.850	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	441914	47.006	ng		99
41) Hexachlorocyclopentadiene	9.039	237	575484	175.926	ng		100
43) 2,4,6-Trichlorophenol	9.163	196	338719	50.889	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139959.D
Acq On : 23 Oct 2024 12:39
Operator : RC/JU
Sample : PB164123BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 23 13:22:34 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 :
PB164123BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	339933	49.501	ng		99
46) 1,1'-Biphenyl	9.351	154	1126703	46.445	ng		100
47) 2-Chloronaphthalene	9.375	162	901688	46.150	ng		99
48) 2-Nitroaniline	9.469	65	316703	52.999	ng		93
49) Acenaphthylene	9.792	152	1409992	49.917	ng		99
50) Dimethylphthalate	9.651	163	1070887	49.337	ng		100
51) 2,6-Dinitrotoluene	9.710	165	240598	51.194	ng		97
52) Acenaphthene	9.963	154	980931	53.683	ng		99
53) 3-Nitroaniline	9.881	138	165720	34.194	ng		95
54) 2,4-Dinitrophenol	9.986	184	264001	130.698	ng	#	1
55) Dibenzofuran	10.139	168	1240679	47.324	ng		98
56) 4-Nitrophenol	10.033	139	396279	106.278	ng		100
57) 2,4-Dinitrotoluene	10.116	165	329266	56.973	ng		96
58) Fluorene	10.480	166	935732	46.861	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	289740	53.821	ng		96
60) Diethylphthalate	10.351	149	1041864	48.887	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	475776	47.181	ng		99
62) 4-Nitroaniline	10.498	138	243551	53.208	ng		94
63) Azobenzene	10.633	77	1058273	46.839	ng		96
65) 4,6-Dinitro-2-methylph...	10.522	198	178099	69.796	ng		93
66) n-Nitrosodiphenylamine	10.592	169	894297	47.764	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	313776	48.688	ng		94
68) Hexachlorobenzene	11.028	284	354277	48.879	ng		95
69) Atrazine	11.116	200	291198	57.414	ng		99
70) Pentachlorophenol	11.216	266	442639	100.626	ng		100
71) Phenanthrene	11.445	178	1412519	47.802	ng		100
72) Anthracene	11.492	178	1430590	49.620	ng		99
73) Carbazole	11.645	167	1254503	46.786	ng		100
74) Di-n-butylphthalate	11.975	149	1506787	48.640	ng		100
75) Fluoranthene	12.627	202	1394053	46.667	ng		100
77) Benzidine	12.745	184	329626	62.989	ng		99
78) Pyrene	12.857	202	1391086	49.936	ng		100
80) Butylbenzylphthalate	13.474	149	451349	54.043	ng		98
81) Benzo(a)anthracene	14.045	228	1042409	50.317	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	240244	39.773	ng		98
83) Chrysene	14.080	228	963784	50.739	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	532526	56.832	ng		99
85) Di-n-octyl phthalate	14.645	149	950001	55.741	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	1244594	55.378	ng		98
88) Benzo(b)fluoranthene	15.098	252	1062781	49.941	ng		99
89) Benzo(k)fluoranthene	15.127	252	864638	47.112	ng		100
90) Benzo(a)pyrene	15.468	252	941642	53.776	ng		99
91) Dibenzo(a,h)anthracene	17.057	278	1028811	54.874	ng		98
92) Benzo(g,h,i)perylene	17.486	276	954801	50.984	ng		99

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

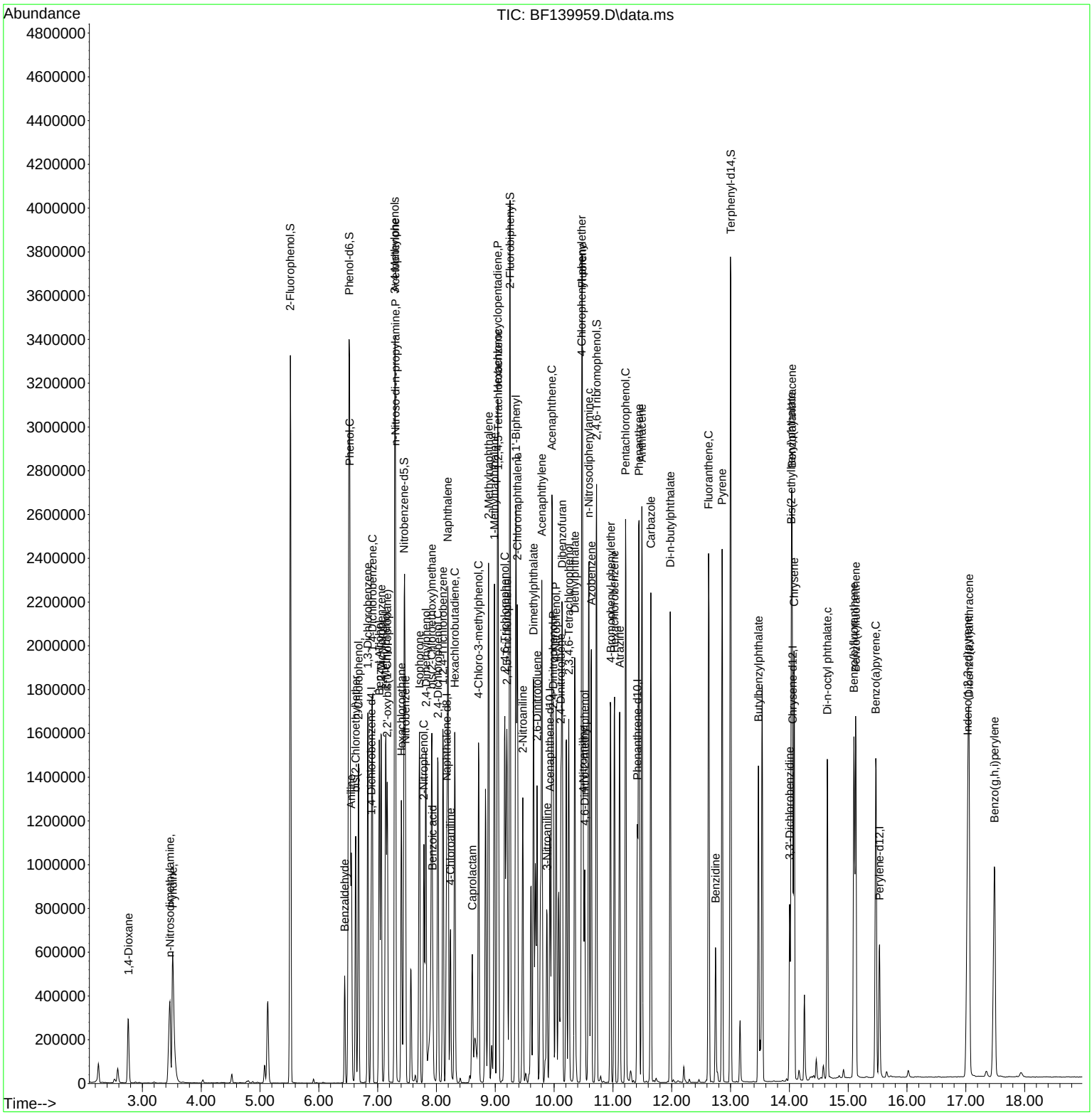
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Data File : BF139959.D
Acq On : 23 Oct 2024 12:39
Operator : RC/JU
Sample : PB164123BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 23 13:22:34 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 :
PB164123BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139960.D
Acq On : 23 Oct 2024 13:07
Operator : RC/JU
Sample : PB164154BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 23 13:37:26 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 :
PB164154BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	155060	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	598190	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	337425	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	611801	20.000	ng	0.00
76) Chrysene-d12	14.057	240	325970	20.000	ng	0.00
86) Perylene-d12	15.533	264	358287	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1272846	128.507	ng	0.02
7) Phenol-d6	6.516	99	1628123	126.915	ng	0.00
23) Nitrobenzene-d5	7.451	82	1062598	98.452	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	502653	159.261	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	1905194	93.316	ng	0.00
79) Terphenyl-d14	12.998	244	1968137	98.385	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.769	88	181218	39.241	ng	94
3) Pyridine	3.522	79	479042	41.849	ng	97
4) n-Nitrosodimethylamine	3.475	42	266874	43.393	ng	95
6) Aniline	6.551	93	484680	40.539	ng	98
8) 2-Chlorophenol	6.675	128	503876	49.762	ng	98
9) Benzaldehyde	6.440	77	124231	17.214	ng	98
10) Phenol	6.528	94	619901m	46.872	ng	
11) bis(2-Chloroethyl)ether	6.628	93	479759	46.932	ng	99
12) 1,3-Dichlorobenzene	6.834	146	529493	45.553	ng	99
13) 1,4-Dichlorobenzene	6.910	146	543764	46.825	ng	99
14) 1,2-Dichlorobenzene	7.063	146	520985	48.070	ng	98
15) Benzyl Alcohol	7.028	79	462205	49.118	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	801294	45.971	ng	97
17) 2-Methylphenol	7.140	107	422006	48.876	ng	99
18) Hexachloroethane	7.404	117	195917	47.310	ng	96
19) n-Nitroso-di-n-propyla...	7.304	70	363348	46.700	ng	96
20) 3+4-Methylphenols	7.287	107	513204	46.470	ng	93
22) Acetophenone	7.298	105	678917	46.337	ng	99
24) Nitrobenzene	7.469	77	546867	46.214	ng	99
25) Isophorone	7.710	82	996658	48.653	ng	99
26) 2-Nitrophenol	7.787	139	261637	58.608	ng	95
27) 2,4-Dimethylphenol	7.822	122	425922	57.218	ng	99
28) bis(2-Chloroethoxy)met...	7.922	93	599138	48.273	ng	100
29) 2,4-Dichlorophenol	8.028	162	422786	49.864	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	437000	46.579	ng	99
31) Naphthalene	8.192	128	1447102	46.906	ng	100
32) Benzoic acid	7.934	122	331855	51.114	ng	96
33) 4-Chloroaniline	8.240	127	226613	21.542	ng	98
34) Hexachlorobutadiene	8.310	225	282324	47.894	ng	99
35) Caprolactam	8.610	113	133451m	49.501	ng	
36) 4-Chloro-3-methylphenol	8.716	107	464991	49.528	ng	99
37) 2-Methylnaphthalene	8.887	142	918290	48.601	ng	100
38) 1-Methylnaphthalene	8.987	142	862092	46.505	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	431129	47.360	ng	99
41) Hexachlorocyclopentadiene	9.039	237	567205	179.072	ng	99
43) 2,4,6-Trichlorophenol	9.163	196	336220	52.168	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139960.D
Acq On : 23 Oct 2024 13:07
Operator : RC/JU
Sample : PB164154BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 23 13:37:26 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 :
PB164154BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	330382	49.686	ng		100
46) 1,1'-Biphenyl	9.351	154	1115152	47.474	ng		100
47) 2-Chloronaphthalene	9.375	162	879879	46.508	ng		100
48) 2-Nitroaniline	9.469	65	312352	53.982	ng		93
49) Acenaphthylene	9.792	152	1392576	50.915	ng		100
50) Dimethylphthalate	9.651	163	1061203	50.491	ng		100
51) 2,6-Dinitrotoluene	9.710	165	238284	52.362	ng		96
52) Acenaphthene	9.963	154	974519	55.078	ng		98
53) 3-Nitroaniline	9.875	138	146617	31.242	ng		95
54) 2,4-Dinitrophenol	9.986	184	261212	133.409	ng	#	1
55) Dibenzofuran	10.134	168	1224268	48.227	ng		99
56) 4-Nitrophenol	10.034	139	393084	108.873	ng		99
57) 2,4-Dinitrotoluene	10.116	165	323562	57.819	ng		96
58) Fluorene	10.481	166	929505	48.073	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	280379	53.788	ng		96
60) Diethylphthalate	10.351	149	1030661	49.945	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	472382	48.378	ng		98
62) 4-Nitroaniline	10.498	138	233090	52.589	ng		96
63) Azobenzene	10.628	77	1048244	47.914	ng		98
65) 4,6-Dinitro-2-methylph...	10.522	198	175060	70.150	ng		92
66) n-Nitrosodiphenylamine	10.586	169	878190	47.960	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	314317	49.870	ng		94
68) Hexachlorobenzene	11.028	284	351330	49.564	ng		96
69) Atrazine	11.116	200	288364	58.136	ng		99
70) Pentachlorophenol	11.216	266	429890	99.928	ng		99
71) Phenanthrene	11.439	178	1394242	48.246	ng		100
72) Anthracene	11.492	178	1419494	50.343	ng		100
73) Carbazole	11.645	167	1215745	46.362	ng		99
74) Di-n-butylphthalate	11.975	149	1483161	48.955	ng		100
75) Fluoranthene	12.627	202	1377658	47.157	ng		100
77) Benzidine	12.745	184	297260	55.458	ng		99
78) Pyrene	12.857	202	1384172	48.511	ng		100
80) Butylbenzylphthalate	13.475	149	461755	53.979	ng		100
81) Benzo(a)anthracene	14.045	228	1066844	50.276	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	218434	35.306	ng		100
83) Chrysene	14.080	228	989412	50.854	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	554575	57.783	ng	#	98
85) Di-n-octyl phthalate	14.645	149	995907	57.050	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	1227173	53.241	ng		98
88) Benzo(b)fluoranthene	15.098	252	1086886	49.799	ng		100
89) Benzo(k)fluoranthene	15.127	252	916238	48.678	ng		100
90) Benzo(a)pyrene	15.468	252	960094	53.462	ng		100
91) Dibenzo(a,h)anthracene	17.057	278	1006006	52.319	ng		98
92) Benzo(g,h,i)perylene	17.486	276	931789	48.514	ng		99

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

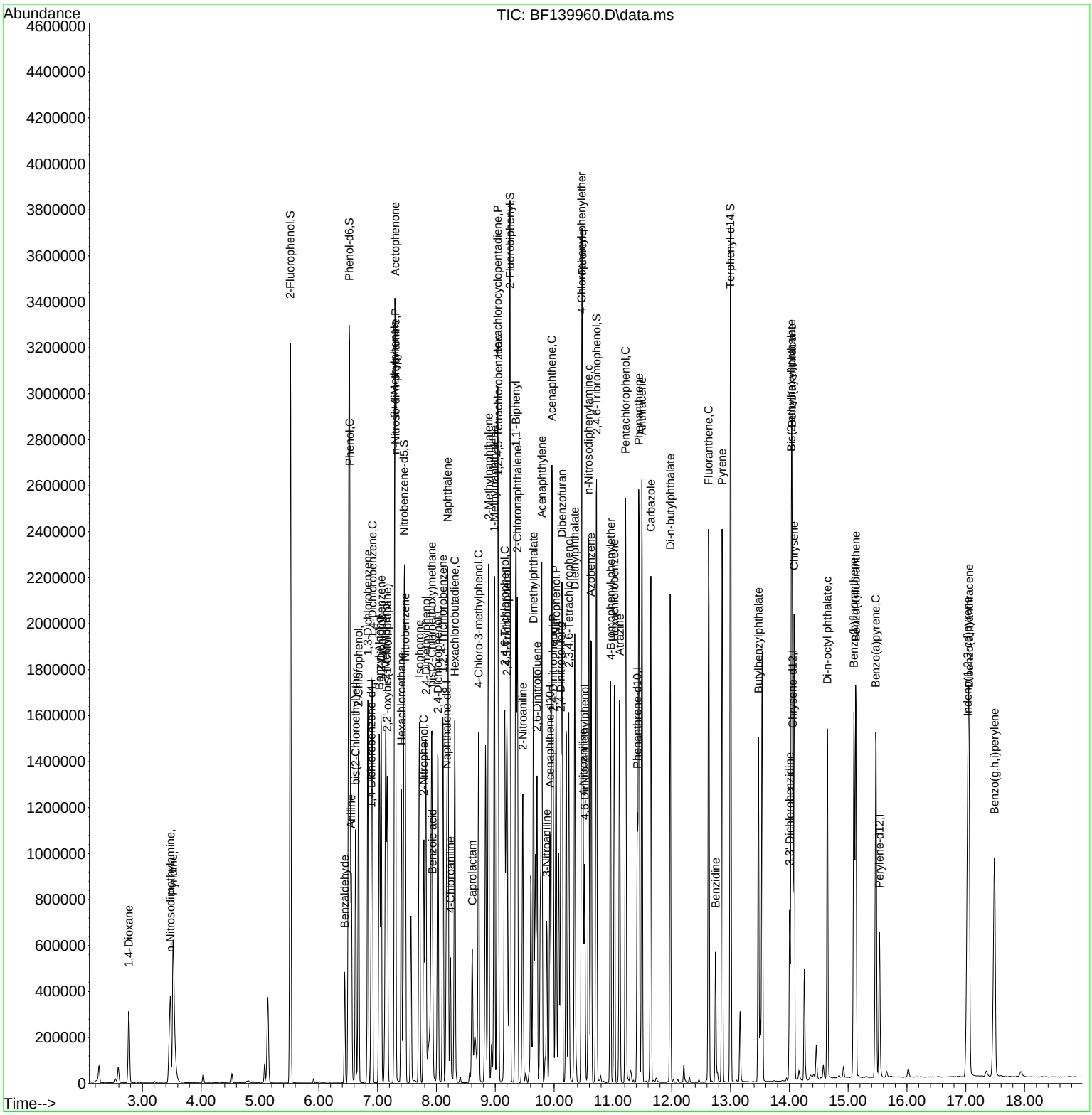
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Data File : BF139960.D
Acq On : 23 Oct 2024 13:07
Operator : RC/JU
Sample : PB164154BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 23 13:37:26 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 :
PB164154BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139961.D
Acq On : 23 Oct 2024 13:36
Operator : RC/JU
Sample : PB164154BSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 23 13:59:46 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 :
PB164154BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.893	152	161665	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	636044	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	355843	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	646570	20.000	ng		0.00
76) Chrysene-d12	14.057	240	335936	20.000	ng		0.00
86) Perylene-d12	15.533	264	357796	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	1319109	127.736	ng		0.02
7) Phenol-d6	6.516	99	1685264	126.002	ng		0.00
23) Nitrobenzene-d5	7.451	82	1104799	96.270	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	534646	160.629	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	1946395	90.399	ng		0.00
79) Terphenyl-d14	13.004	244	2069951	100.404	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.775	88	189334	39.323	ng		94
3) Pyridine	3.528	79	499060	41.816	ng		95
4) n-Nitrosodimethylamine	3.481	42	277359	43.255	ng		96
6) Aniline	6.551	93	502708	40.329	ng		98
8) 2-Chlorophenol	6.675	128	524066	49.641	ng		98
9) Benzaldehyde	6.440	77	129085	17.156	ng		98
10) Phenol	6.528	94	646060m	46.854	ng		
11) bis(2-Chloroethyl)ether	6.628	93	494832	46.429	ng		99
12) 1,3-Dichlorobenzene	6.834	146	550631	45.436	ng		98
13) 1,4-Dichlorobenzene	6.910	146	559405	46.204	ng		99
14) 1,2-Dichlorobenzene	7.063	146	537705	47.585	ng		98
15) Benzyl Alcohol	7.028	79	478997	48.822	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	831226	45.740	ng		97
17) 2-Methylphenol	7.140	107	436758	48.518	ng		100
18) Hexachloroethane	7.404	117	204069	47.266	ng		97
19) n-Nitroso-di-n-propyla...	7.304	70	376708	46.439	ng		96
20) 3+4-Methylphenols	7.293	107	526338	45.712	ng	#	81
22) Acetophenone	7.298	105	705241	45.269	ng		100
24) Nitrobenzene	7.475	77	573014	45.541	ng		98
25) Isophorone	7.710	82	1030410	47.307	ng		99
26) 2-Nitrophenol	7.787	139	274915	57.917	ng		95
27) 2,4-Dimethylphenol	7.822	122	442007	55.845	ng		99
28) bis(2-Chloroethoxy)met...	7.922	93	616428	46.711	ng		100
29) 2,4-Dichlorophenol	8.028	162	439495	48.750	ng		98
30) 1,2,4-Trichlorobenzene	8.110	180	454400	45.551	ng		99
31) Naphthalene	8.192	128	1503638	45.838	ng		100
32) Benzoic acid	7.934	122	344080	49.843	ng		97
33) 4-Chloroaniline	8.240	127	220991	19.757	ng		97
34) Hexachlorobutadiene	8.310	225	292600	46.683	ng		99
35) Caprolactam	8.610	113	147240m	51.365	ng		
36) 4-Chloro-3-methylphenol	8.716	107	483040	48.389	ng		99
37) 2-Methylnaphthalene	8.887	142	950365	47.305	ng		99
38) 1-Methylnaphthalene	8.987	142	894132	45.363	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	449111	46.782	ng		99
41) Hexachlorocyclopentadiene	9.039	237	584487	174.977	ng		100
43) 2,4,6-Trichlorophenol	9.163	196	345841	50.883	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139961.D
Acq On : 23 Oct 2024 13:36
Operator : RC/JU
Sample : PB164154BSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 23 13:59:46 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 :
PB164154BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	347946	49.619	ng		98
46) 1,1'-Biphenyl	9.351	154	1156329	46.679	ng		99
47) 2-Chloronaphthalene	9.375	162	919760	46.100	ng		100
48) 2-Nitroaniline	9.469	65	328006	53.753	ng		93
49) Acenaphthylene	9.792	152	1457542	50.532	ng		99
50) Dimethylphthalate	9.651	163	1104702	49.841	ng		99
51) 2,6-Dinitrotoluene	9.710	165	250701	52.239	ng		97
52) Acenaphthene	9.963	154	1005969	53.913	ng		99
53) 3-Nitroaniline	9.881	138	151706	30.654	ng		93
54) 2,4-Dinitrophenol	9.986	184	273036	132.288	ng	#	1
55) Dibenzofuran	10.139	168	1274548	47.609	ng		98
56) 4-Nitrophenol	10.034	139	408257	107.223	ng		100
57) 2,4-Dinitrotoluene	10.116	165	340646	57.721	ng		96
58) Fluorene	10.481	166	967345	47.441	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	296508	53.938	ng		97
60) Diethylphthalate	10.351	149	1066263	48.995	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	489688	47.555	ng		99
62) 4-Nitroaniline	10.498	138	245826	52.592	ng		98
63) Azobenzene	10.633	77	1095176	47.468	ng		96
65) 4,6-Dinitro-2-methylph...	10.522	198	185801	70.450	ng		92
66) n-Nitrosodiphenylamine	10.592	169	922858	47.689	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	324462	48.711	ng		94
68) Hexachlorobenzene	11.028	284	358709	47.884	ng		96
69) Atrazine	11.116	200	307011	58.567	ng		100
70) Pentachlorophenol	11.216	266	454447	99.955	ng		99
71) Phenanthrene	11.445	178	1451375	47.522	ng		100
72) Anthracene	11.492	178	1468169	49.270	ng		99
73) Carbazole	11.645	167	1291336	46.596	ng		99
74) Di-n-butylphthalate	11.975	149	1560879	48.750	ng		100
75) Fluoranthene	12.627	202	1437108	46.546	ng		99
77) Benzidine	12.745	184	310637	56.235	ng		99
78) Pyrene	12.857	202	1455283	49.490	ng		99
80) Butylbenzylphthalate	13.474	149	485460	55.067	ng		99
81) Benzo(a)anthracene	14.045	228	1088912	49.794	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	218064	34.200	ng		99
83) Chrysene	14.080	228	1013566	50.550	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	568264	57.453	ng		99
85) Di-n-octyl phthalate	14.645	149	968166	53.816	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	1241821	53.950	ng		98
88) Benzo(b)fluoranthene	15.098	252	1073628	49.259	ng		99
89) Benzo(k)fluoranthene	15.133	252	919342	48.910	ng		99
90) Benzo(a)pyrene	15.474	252	972366	54.219	ng		98
91) Dibenzo(a,h)anthracene	17.057	278	1019996	53.119	ng		99
92) Benzo(g,h,i)perylene	17.486	276	938810	48.946	ng		99

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

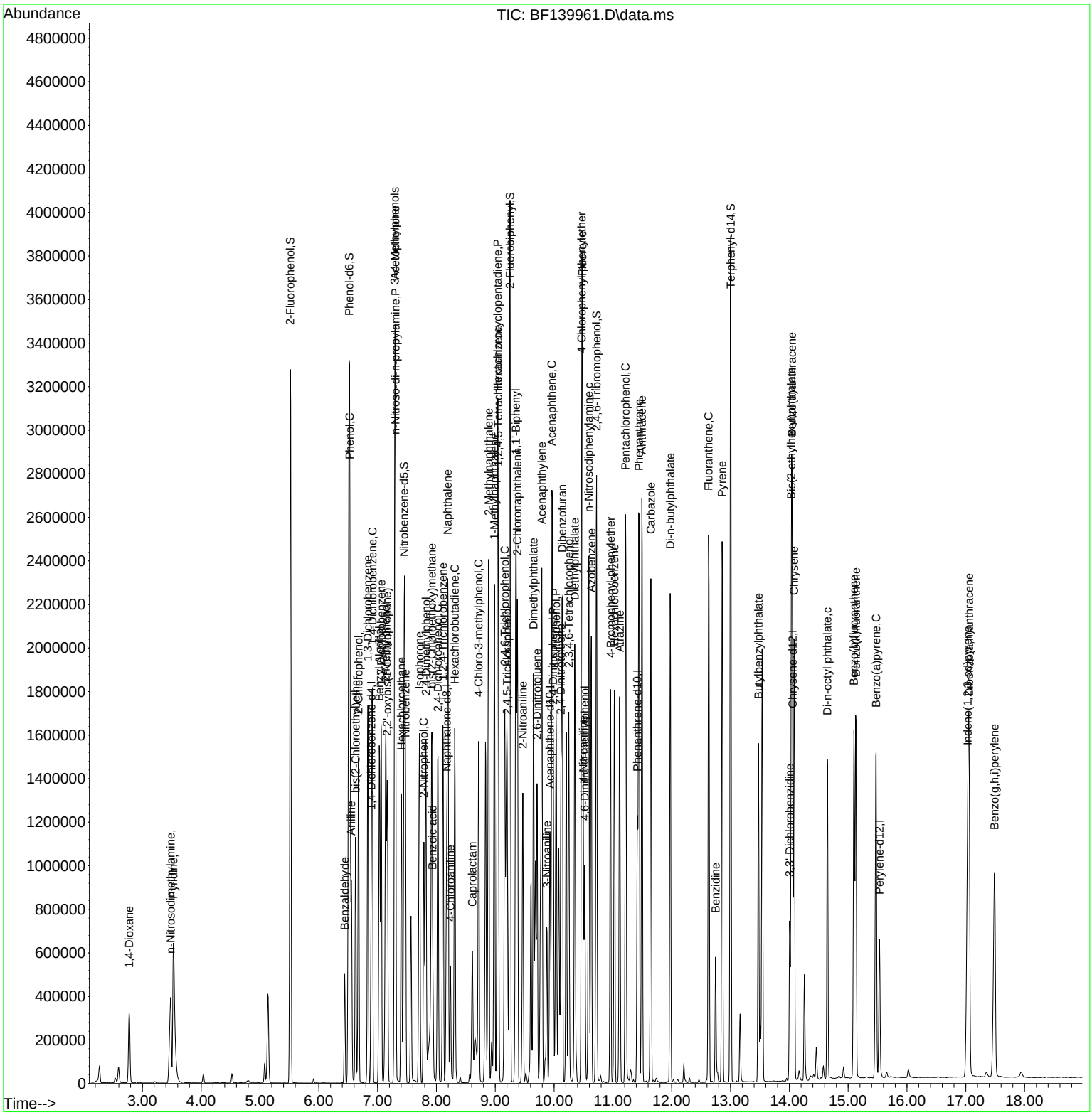
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Data File : BF139961.D
Acq On : 23 Oct 2024 13:36
Operator : RC/JU
Sample : PB164154BSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 23 13:59:46 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 :
PB164154BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139977.D
Acq On : 23 Oct 2024 21:20
Operator : RC/JU
Sample : P4397-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 24 01:12:30 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

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	145039	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	535106	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	263539	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	377320	20.000	ng	0.00
76) Chrysene-d12	14.057	240	297713	20.000	ng	0.00
86) Perylene-d12	15.527	264	304160	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1061586	114.583	ng	0.02
7) Phenol-d6	6.516	99	1332741	111.067	ng	0.00
23) Nitrobenzene-d5	7.451	82	842035	87.214	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	280549	113.810	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1397699	87.652	ng	0.00
79) Terphenyl-d14	12.998	244	1145736	62.710	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.769	88	203136	47.026	ng	94
3) Pyridine	3.522	79	486426	45.430	ng	96
4) n-Nitrosodimethylamine	3.475	42	271618	47.216	ng	95
6) Aniline	6.551	93	341256	30.515	ng	97
8) 2-Chlorophenol	6.675	128	485993	51.312	ng	97
9) Benzaldehyde	6.440	77	127637	18.908	ng	97
10) Phenol	6.528	94	600141m	48.513	ng	
11) bis(2-Chloroethyl)ether	6.628	93	476724	49.858	ng	98
12) 1,3-Dichlorobenzene	6.834	146	529757	48.725	ng	98
13) 1,4-Dichlorobenzene	6.910	146	536427	49.385	ng	99
14) 1,2-Dichlorobenzene	7.063	146	514070	50.709	ng	97
15) Benzyl Alcohol	7.028	79	437440	49.698	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	777285	47.675	ng	97
17) 2-Methylphenol	7.140	107	399548	49.472	ng	99
18) Hexachloroethane	7.404	117	189431	48.905	ng	97
19) n-Nitroso-di-n-propyla...	7.304	70	343817	47.243	ng	95
20) 3+4-Methylphenols	7.287	107	488080	47.248	ng	95
22) Acetophenone	7.298	105	656515	50.091	ng	97
24) Nitrobenzene	7.469	77	521971	49.310	ng	99
25) Isophorone	7.710	82	934740	51.009	ng	99
26) 2-Nitrophenol	7.787	139	239518	59.978	ng	95
27) 2,4-Dimethylphenol	7.816	122	387363	58.173	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	559563	50.400	ng	100
29) 2,4-Dichlorophenol	8.022	162	379393	50.022	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	409284	48.768	ng	100
31) Naphthalene	8.192	128	1392449	50.456	ng	100
32) Benzoic acid	7.916	122	225970	38.908	ng	98
33) 4-Chloroaniline	8.240	127	118687	12.612	ng	97
34) Hexachlorobutadiene	8.310	225	265253	50.303	ng	99
35) Caprolactam	8.604	113	114307m	47.398	ng	
36) 4-Chloro-3-methylphenol	8.716	107	401310	47.785	ng	99
37) 2-Methylnaphthalene	8.887	142	852979	50.467	ng	100
38) 1-Methylnaphthalene	8.987	142	789589	47.615	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	395277	55.595	ng	99
41) Hexachlorocyclopentadiene	9.039	237	174108	70.378	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	277530	55.134	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139977.D
Acq On : 23 Oct 2024 21:20
Operator : RC/JU
Sample : P4397-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 24 01:12:30 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

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	259382	49.944	ng		99
46) 1,1'-Biphenyl	9.351	154	972821	53.026	ng		100
47) 2-Chloronaphthalene	9.375	162	754588	51.068	ng		100
48) 2-Nitroaniline	9.463	65	249911	55.300	ng		96
49) Acenaphthylene	9.792	152	1135463	53.153	ng		100
50) Dimethylphthalate	9.645	163	886466	54.003	ng		100
51) 2,6-Dinitrotoluene	9.710	165	186311	52.419	ng		95
52) Acenaphthene	9.963	154	747502	54.092	ng		98
53) 3-Nitroaniline	9.875	138	110802	30.230	ng		96
54) 2,4-Dinitrophenol	9.981	184	77722	54.865	ng	#	1
55) Dibenzofuran	10.134	168	985836	49.722	ng		98
56) 4-Nitrophenol	10.028	139	263177	93.328	ng		98
57) 2,4-Dinitrotoluene	10.110	165	235726	53.932	ng	#	96
58) Fluorene	10.475	166	728456	48.238	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	195193	47.944	ng		95
60) Diethylphthalate	10.345	149	814166	50.515	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	374831	49.150	ng		98
62) 4-Nitroaniline	10.486	138	147678	42.660	ng		96
63) Azobenzene	10.628	77	961318	56.260	ng		93
65) 4,6-Dinitro-2-methylph...	10.516	198	66791	43.397	ng		93
66) n-Nitrosodiphenylamine	10.586	169	664599	58.850	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	226580	58.290	ng		96
68) Hexachlorobenzene	11.022	284	236364	54.067	ng		98
69) Atrazine	11.110	200	203957	66.671	ng		100
70) Pentachlorophenol	11.216	266	268299	101.122	ng		99
71) Phenanthrene	11.439	178	1043799	58.565	ng		100
72) Anthracene	11.492	178	991993	57.045	ng		100
73) Carbazole	11.639	167	826188	51.085	ng		99
74) Di-n-butylphthalate	11.975	149	1064494	56.971	ng		99
75) Fluoranthene	12.627	202	1008266	55.960	ng		99
77) Benzidine	12.745	184	205525	41.983	ng		99
78) Pyrene	12.857	202	1063411	40.807	ng		100
80) Butylbenzylphthalate	13.474	149	435867	55.789	ng		98
81) Benzo(a)anthracene	14.045	228	1050257	54.192	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	231442	40.959	ng		99
83) Chrysene	14.080	228	964181	54.261	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	596526	68.054	ng	#	99
85) Di-n-octyl phthalate	14.645	149	1111486	69.714	ng		97
87) Indeno(1,2,3-cd)pyrene	17.021	276	688441	35.183	ng		98
88) Benzo(b)fluoranthene	15.098	252	1103565	59.562	ng		99
89) Benzo(k)fluoranthene	15.127	252	888283	55.591	ng		100
90) Benzo(a)pyrene	15.468	252	876971	57.523	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	578410	35.434	ng		98
92) Benzo(g,h,i)perylene	17.474	276	490321	30.072	ng		99

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

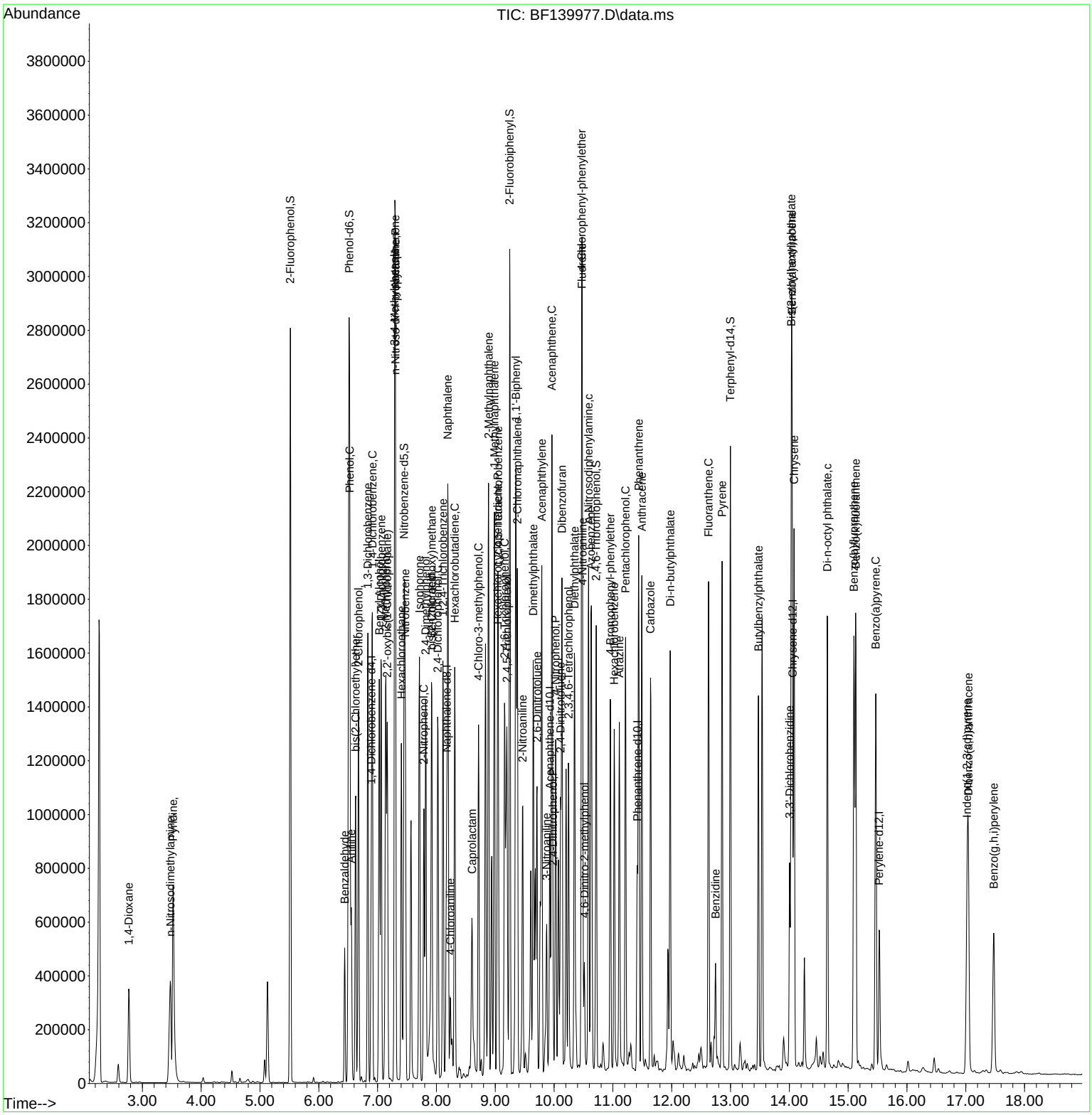
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139977.D
Acq On : 23 Oct 2024 21:20
Operator : RC/JU
Sample : P4397-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 24 01:12:30 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

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139978.D
Acq On : 23 Oct 2024 21:49
Operator : RC/JU
Sample : P4397-02MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 24 01:12:56 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

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	145043	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	544717	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	274724	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	399778	20.000	ng	0.00
76) Chrysene-d12	14.057	240	304493	20.000	ng	0.00
86) Perylene-d12	15.533	264	305520	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1074370	115.960	ng	0.02
7) Phenol-d6	6.516	99	1355344	112.948	ng	0.00
23) Nitrobenzene-d5	7.451	82	862260	87.733	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	295680	115.065	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1442846	86.799	ng	0.00
79) Terphenyl-d14	12.998	244	1171336	62.684	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.769	88	204291	47.292	ng	94
3) Pyridine	3.522	79	503947	47.065	ng	95
4) n-Nitrosodimethylamine	3.475	42	271640	47.218	ng	95
6) Aniline	6.551	93	362373	32.402	ng	98
8) 2-Chlorophenol	6.675	128	491736	51.916	ng	97
9) Benzaldehyde	6.440	77	128567	19.046	ng	96
10) Phenol	6.528	94	609766m	49.289	ng	
11) bis(2-Chloroethyl)ether	6.628	93	482062	50.415	ng	99
12) 1,3-Dichlorobenzene	6.834	146	532430	48.970	ng	98
13) 1,4-Dichlorobenzene	6.910	146	542367	49.930	ng	98
14) 1,2-Dichlorobenzene	7.063	146	515493	50.848	ng	98
15) Benzyl Alcohol	7.028	79	444990	50.554	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	792774	48.623	ng	97
17) 2-Methylphenol	7.140	107	403735	49.989	ng	99
18) Hexachloroethane	7.404	117	191365	49.403	ng	97
19) n-Nitroso-di-n-propyla...	7.304	70	352876	48.487	ng	95
20) 3+4-Methylphenols	7.287	107	493800	47.801	ng	94
22) Acetophenone	7.298	105	664685	49.819	ng	98
24) Nitrobenzene	7.469	77	529532	49.142	ng	99
25) Isophorone	7.710	82	951945	51.032	ng	99
26) 2-Nitrophenol	7.787	139	248802	61.204	ng	96
27) 2,4-Dimethylphenol	7.822	122	396741	58.530	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	568638	50.314	ng	99
29) 2,4-Dichlorophenol	8.028	162	392433	50.828	ng	97
30) 1,2,4-Trichlorobenzene	8.110	180	419640	49.120	ng	99
31) Naphthalene	8.192	128	1420023	50.547	ng	99
32) Benzoic acid	7.922	122	255301	43.183	ng	98
33) 4-Chloroaniline	8.239	127	129935	13.564	ng	98
34) Hexachlorobutadiene	8.310	225	274022	51.049	ng	99
35) Caprolactam	8.610	113	118722m	48.360	ng	
36) 4-Chloro-3-methylphenol	8.716	107	409463	47.895	ng	98
37) 2-Methylnaphthalene	8.886	142	876472	50.942	ng	100
38) 1-Methylnaphthalene	8.986	142	813674	48.202	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	409887	55.303	ng	99
41) Hexachlorocyclopentadiene	9.039	237	198824	77.097	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	291428	55.538	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139978.D
Acq On : 23 Oct 2024 21:49
Operator : RC/JU
Sample : P4397-02MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 24 01:12:56 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

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	275272	50.846	ng		99
46) 1,1'-Biphenyl	9.351	154	1003788	52.486	ng		99
47) 2-Chloronaphthalene	9.375	162	779472	50.604	ng		100
48) 2-Nitroaniline	9.469	65	256306	54.406	ng		90
49) Acenaphthylene	9.792	152	1177711	52.886	ng		99
50) Dimethylphthalate	9.651	163	916630	53.567	ng		100
51) 2,6-Dinitrotoluene	9.710	165	192883	52.059	ng		96
52) Acenaphthene	9.963	154	778766	54.060	ng		99
53) 3-Nitroaniline	9.875	138	115993	30.358	ng		96
54) 2,4-Dinitrophenol	9.981	184	103426	68.232	ng	#	1
55) Dibenzofuran	10.133	168	1024790	49.582	ng		99
56) 4-Nitrophenol	10.028	139	281070	95.616	ng		98
57) 2,4-Dinitrotoluene	10.110	165	249070	54.665	ng		97
58) Fluorene	10.475	166	758915	48.209	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	205763	48.483	ng		96
60) Diethylphthalate	10.351	149	845427	50.319	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	388270	48.840	ng		99
62) 4-Nitroaniline	10.486	138	156078	43.251	ng		97
63) Azobenzene	10.628	77	1004048	56.368	ng		94
65) 4,6-Dinitro-2-methylph...	10.516	198	83406	51.148	ng		95
66) n-Nitrosodiphenylamine	10.586	169	690371	57.698	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	237973	57.782	ng		96
68) Hexachlorobenzene	11.022	284	246849	53.293	ng		99
69) Atrazine	11.110	200	217789	67.194	ng		99
70) Pentachlorophenol	11.216	266	281865	100.268	ng		99
71) Phenanthrene	11.439	178	1078344	57.104	ng		100
72) Anthracene	11.492	178	1021269	55.429	ng		100
73) Carbazole	11.645	167	855533	49.928	ng		99
74) Di-n-butylphthalate	11.975	149	1121037	56.626	ng		100
75) Fluoranthene	12.627	202	1032153	54.068	ng		99
77) Benzidine	12.745	184	267220	53.370	ng		99
78) Pyrene	12.857	202	1096357	41.134	ng		100
80) Butylbenzylphthalate	13.474	149	451808	56.542	ng		99
81) Benzo(a)anthracene	14.045	228	1061721	53.564	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	245824	42.535	ng		99
83) Chrysene	14.080	228	994000	54.694	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	620274	69.187	ng		99
85) Di-n-octyl phthalate	14.645	149	1132521	69.452	ng		97
87) Indeno(1,2,3-cd)pyrene	17.027	276	699702	35.599	ng		98
88) Benzo(b)fluoranthene	15.098	252	1128273	60.624	ng		99
89) Benzo(k)fluoranthene	15.127	252	879963	54.825	ng		99
90) Benzo(a)pyrene	15.468	252	886606	57.896	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	586803	35.788	ng		99
92) Benzo(g,h,i)perylene	17.474	276	500438	30.555	ng		99

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

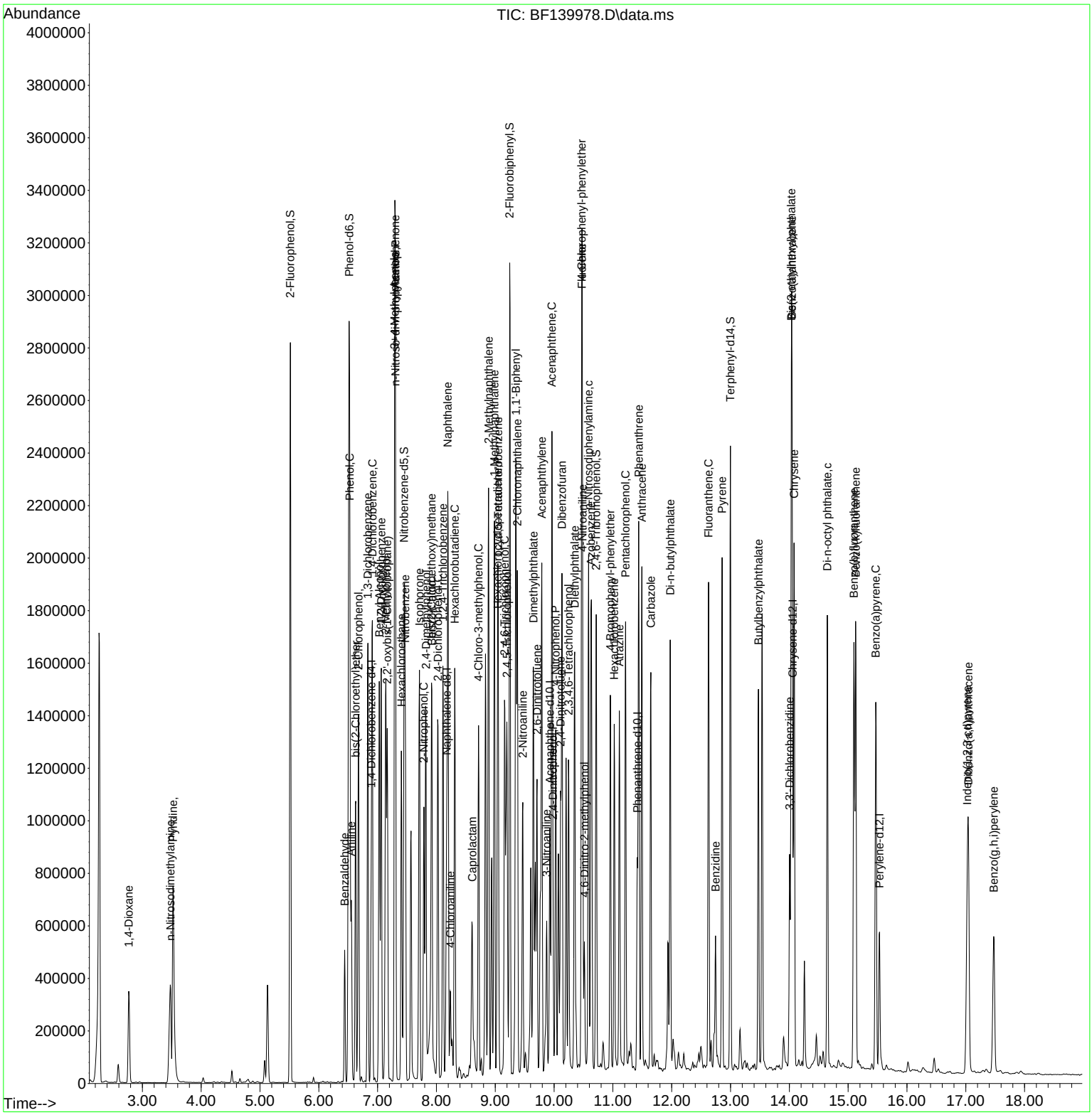
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139978.D
Acq On : 23 Oct 2024 21:49
Operator : RC/JU
Sample : P4397-02MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 24 01:12:56 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

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024



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

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

Manual Integration Report

Sequence:	BF102124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139892.D	Phenol	yogesh	10/22/2024 4:37:38 AM	mohammad	10/23/2024 4:28:27 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF102224	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139917.D	Phenol	Jagrut	10/23/2024 2:27:27 PM	mohammad	10/24/2024 1:59:10 AM	Peak Integrated by Software
SSTDCCC040	BF139927.D	Phenol	Jagrut	10/23/2024 2:27:40 PM	mohammad	10/24/2024 1:59:10 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF102324	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139952.D	Phenol	yogesh	10/24/2024 1:42:16 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
PB164123BS	BF139959.D	Caprolactam	yogesh	10/24/2024 1:42:21 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
PB164123BS	BF139959.D	Phenol	yogesh	10/24/2024 1:42:21 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
PB164154BS	BF139960.D	Caprolactam	yogesh	10/24/2024 1:42:23 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
PB164154BS	BF139960.D	Phenol	yogesh	10/24/2024 1:42:23 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
PB164154BSD	BF139961.D	Caprolactam	yogesh	10/24/2024 1:42:24 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
PB164154BSD	BF139961.D	Phenol	yogesh	10/24/2024 1:42:24 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
SSTDCCC040	BF139965.D	Phenol	yogesh	10/24/2024 1:42:27 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
P4397-02MS	BF139977.D	Caprolactam	Jagrut	10/24/2024 10:34:17 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
P4397-02MS	BF139977.D	Phenol	Jagrut	10/24/2024 10:34:17 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
P4397-02MSD	BF139978.D	Caprolactam	Jagrut	10/24/2024 10:34:19 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
P4397-02MSD	BF139978.D	Phenol	Jagrut	10/24/2024 10:34:19 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
P4397-01	BF139979.D	Benzo(a)anthracene	Jagrut	10/24/2024 10:34:23 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF102324	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4397-01	BF139979.D	Benzo(b)fluoranthene	Jagrut	10/24/2024 10:34:23 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
P4397-01	BF139979.D	Benzo(k)fluoranthene	Jagrut	10/24/2024 10:34:23 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software

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 # 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

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 # 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

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 # BF102124

Review By	yogesh	Review On	10/22/2024 4:38:40 AM				
Supervise By	mohammad	Supervise On	10/23/2024 4:28:27 AM				
SubDirectory	BF102124	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	BF139891.D	21 Oct 2024 09:28	RC/JU	Ok
2	SSTDCCC040	BF139892.D	21 Oct 2024 09:57	RC/JU	Ok,M
3	PB164123BL	BF139893.D	21 Oct 2024 10:25	RC/JU	Ok
4	P4430-01	BF139894.D	21 Oct 2024 10:58	RC/JU	Ok
5	P4425-07	BF139895.D	21 Oct 2024 11:27	RC/JU	Ok
6	P4425-09	BF139896.D	21 Oct 2024 11:55	RC/JU	Ok
7	P4426-03	BF139897.D	21 Oct 2024 12:24	RC/JU	Ok
8	P4426-07	BF139898.D	21 Oct 2024 12:52	RC/JU	Ok
9	P4426-17	BF139899.D	21 Oct 2024 13:20	RC/JU	Ok
10	P4426-11	BF139900.D	21 Oct 2024 13:49	RC/JU	Ok
11	P4396-01RE	BF139901.D	21 Oct 2024 14:18	RC/JU	Confirms
12	P4385-06MS	BF139902.D	21 Oct 2024 14:47	RC/JU	Ok,M
13	P4385-06MSD	BF139903.D	21 Oct 2024 15:15	RC/JU	Ok,M
14	P4403-01RE	BF139904.D	21 Oct 2024 15:44	RC/JU	Confirms
15	P4410-01RE	BF139905.D	21 Oct 2024 16:12	RC/JU	Confirms
16	P4410-01MS	BF139906.D	21 Oct 2024 16:42	RC/JU	Ok,M
17	P4410-01MSD	BF139907.D	21 Oct 2024 17:11	RC/JU	Ok,M
18	P4395-01RE	BF139908.D	21 Oct 2024 17:39	RC/JU	Confirms
19	P4400-01RE	BF139909.D	21 Oct 2024 18:08	RC/JU	Confirms
20	P4401-01RE	BF139910.D	21 Oct 2024 18:37	RC/JU	Confirms
21	P4406-01RE	BF139911.D	21 Oct 2024 19:06	RC/JU	Confirms

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102124

Review By	yogesh	Review On	10/22/2024 4:38:40 AM		
Supervise By	mohammad	Supervise On	10/23/2024 4:28:27 AM		
SubDirectory	BF102124	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	P4419-01	BF139912.D	21 Oct 2024 19:34	RC/JU	Ok,M
23	P4419-01MS	BF139913.D	21 Oct 2024 20:03	RC/JU	Ok,M
24	P4419-01MSD	BF139914.D	21 Oct 2024 20:32	RC/JU	Ok,M
25	P4455-01	BF139915.D	21 Oct 2024 21:01	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102224

Review By	Jagrut	Review On	10/23/2024 2:28:42 PM				
Supervise By	mohammad	Supervise On	10/24/2024 1:59:10 AM				
SubDirectory	BF102224	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	BF139916.D	22 Oct 2024 09:11	RC/JU	Ok
2	SSTDCCC040	BF139917.D	22 Oct 2024 09:39	RC/JU	Ok,M
3	PB164152BL	BF139918.D	22 Oct 2024 10:07	RC/JU	Ok
4	PB164152BS	BF139919.D	22 Oct 2024 10:36	RC/JU	Ok,M
5	PB164071BL	BF139920.D	22 Oct 2024 11:05	RC/JU	Ok
6	PB164071BS	BF139921.D	22 Oct 2024 11:34	RC/JU	Ok,M
7	PB164176BL	BF139922.D	22 Oct 2024 12:03	RC/JU	Ok
8	PB164176BS	BF139923.D	22 Oct 2024 12:32	RC/JU	Ok,M
9	PB164246BL	BF139924.D	22 Oct 2024 13:01	RC/JU	Ok
10	PB164246BS	BF139925.D	22 Oct 2024 13:31	RC/JU	Ok,M
11	DFTPP	BF139926.D	22 Oct 2024 14:00	RC/JU	Ok
12	SSTDCCC040	BF139927.D	22 Oct 2024 14:28	RC/JU	Ok,M
13	PB164154BL	BF139928.D	22 Oct 2024 14:58	RC/JU	Ok
14	P4452-01	BF139929.D	22 Oct 2024 15:32	RC/JU	Ok
15	P4419-04	BF139930.D	22 Oct 2024 16:01	RC/JU	Ok
16	P4419-04MS	BF139931.D	22 Oct 2024 16:30	RC/JU	Ok,M
17	P4419-04MSD	BF139932.D	22 Oct 2024 16:59	RC/JU	Ok,M
18	P4458-02	BF139933.D	22 Oct 2024 17:29	RC/JU	Ok
19	P4443-05	BF139934.D	22 Oct 2024 17:58	RC/JU	Ok
20	P4443-10	BF139935.D	22 Oct 2024 18:27	RC/JU	Ok
21	P4385-08	BF139936.D	22 Oct 2024 18:56	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102224

Review By	Jagrut	Review On	10/23/2024 2:28:42 PM				
Supervise By	mohammad	Supervise On	10/24/2024 1:59:10 AM				
SubDirectory	BF102224	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	P4385-04	BF139937.D	22 Oct 2024 19:25	RC/JU	Ok
23	P4385-06	BF139938.D	22 Oct 2024 19:54	RC/JU	Ok
24	P4403-01MSD	BF139939.D	22 Oct 2024 20:22	RC/JU	Ok,M
25	P4403-01MS	BF139940.D	22 Oct 2024 20:51	RC/JU	Ok,M
26	P4385-02	BF139941.D	22 Oct 2024 21:20	RC/JU	Ok
27	P4456-01	BF139942.D	22 Oct 2024 21:49	RC/JU	Ok
28	P4431-01MS	BF139943.D	22 Oct 2024 22:17	RC/JU	Ok,M
29	P4431-01MSD	BF139944.D	22 Oct 2024 22:46	RC/JU	Ok,M
30	P4385-16	BF139945.D	22 Oct 2024 23:14	RC/JU	Ok
31	P4385-18	BF139946.D	22 Oct 2024 23:43	RC/JU	Ok
32	P4385-12	BF139947.D	23 Oct 2024 00:11	RC/JU	Ok
33	P4443-01	BF139948.D	23 Oct 2024 00:40	RC/JU	Ok,M
34	P4385-10	BF139949.D	23 Oct 2024 01:08	RC/JU	Ok
35	P4443-06	BF139950.D	23 Oct 2024 01:36	RC/JU	Dilution

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	BF139951.D	23 Oct 2024 08:52	RC/JU	Ok
2	SSTDCCC040	BF139952.D	23 Oct 2024 09:20	RC/JU	Ok,M
3	PB164020BL	BF139953.D	23 Oct 2024 09:48	RC/JU	Ok
4	PB164020BS	BF139954.D	23 Oct 2024 10:17	RC/JU	Ok,M
5	PB164237BL	BF139955.D	23 Oct 2024 10:45	RC/JU	Ok
6	PB164237BS	BF139956.D	23 Oct 2024 11:14	RC/JU	Ok,M
7	PB164208BL	BF139957.D	23 Oct 2024 11:42	RC/JU	Ok
8	PB164216BS	BF139958.D	23 Oct 2024 12:10	RC/JU	Ok,M
9	PB164123BS	BF139959.D	23 Oct 2024 12:39	RC/JU	Ok,M
10	PB164154BS	BF139960.D	23 Oct 2024 13:07	RC/JU	Ok,M
11	PB164154BSD	BF139961.D	23 Oct 2024 13:36	RC/JU	Ok,M
12	PB164286BL	BF139962.D	23 Oct 2024 14:04	RC/JU	Ok
13	PB164286BS	BF139963.D	23 Oct 2024 14:33	RC/JU	Ok,M
14	DFTPP	BF139964.D	23 Oct 2024 15:01	RC/JU	Ok
15	SSTDCCC040	BF139965.D	23 Oct 2024 15:30	RC/JU	Ok,M
16	PB164195TB	BF139966.D	23 Oct 2024 15:58	RC/JU	Ok
17	P4397-06	BF139967.D	23 Oct 2024 16:32	RC/JU	Ok
18	P4443-06DL	BF139968.D	23 Oct 2024 17:01	RC/JU	Ok,M
19	P4458-01	BF139969.D	23 Oct 2024 17:30	RC/JU	Ok,M
20	P4397-06MS	BF139970.D	23 Oct 2024 17:59	RC/JU	Ok,M
21	P4397-06MSD	BF139971.D	23 Oct 2024 18:28	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM				
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM				
SubDirectory	BF102324	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	P4472-04	BF139972.D	23 Oct 2024 18:56	RC/JU	Ok
23	P4468-06	BF139973.D	23 Oct 2024 19:25	RC/JU	Ok
24	P4468-04	BF139974.D	23 Oct 2024 19:54	RC/JU	Ok
25	P4397-04	BF139975.D	23 Oct 2024 20:22	RC/JU	Ok
26	P4397-02	BF139976.D	23 Oct 2024 20:51	RC/JU	Ok
27	P4397-02MS	BF139977.D	23 Oct 2024 21:20	RC/JU	Ok,M
28	P4397-02MSD	BF139978.D	23 Oct 2024 21:49	RC/JU	Ok,M
29	P4397-01	BF139979.D	23 Oct 2024 22:17	RC/JU	Ok,M
30	P4468-05	BF139980.D	23 Oct 2024 22:46	RC/JU	Ok
31	P4472-01	BF139981.D	23 Oct 2024 23:14	RC/JU	Ok
32	P4385-20	BF139982.D	23 Oct 2024 23:43	RC/JU	Ok,M
33	P4385-14	BF139983.D	24 Oct 2024 00:11	RC/JU	Ok
34	P4474-01	BF139984.D	24 Oct 2024 00:40	RC/JU	Ok
35	P4473-01	BF139985.D	24 Oct 2024 01:08	RC/JU	Ok
36	P4489-01	BF139986.D	24 Oct 2024 01:37	RC/JU	Dilution
37	P4486-01	BF139987.D	24 Oct 2024 02:06	RC/JU	Ok,M
38	P4468-03	BF139988.D	24 Oct 2024 02:34	RC/JU	Ok,M

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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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 # BF102124

Review By	yogesh	Review On	10/22/2024 4:38:40 AM		
Supervise By	mohammad	Supervise On	10/23/2024 4:28:27 AM		
SubDirectory	BF102124	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	BF139891.D	21 Oct 2024 09:28		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139892.D	21 Oct 2024 09:57		RC/JU	Ok,M
3	PB164123BL	PB164123BL	BF139893.D	21 Oct 2024 10:25		RC/JU	Ok
4	P4430-01	VNJ-209	BF139894.D	21 Oct 2024 10:58		RC/JU	Ok
5	P4425-07	TP-4	BF139895.D	21 Oct 2024 11:27		RC/JU	Ok
6	P4425-09	TP-5	BF139896.D	21 Oct 2024 11:55		RC/JU	Ok
7	P4426-03	PAD-2	BF139897.D	21 Oct 2024 12:24		RC/JU	Ok
8	P4426-07	PAD-4	BF139898.D	21 Oct 2024 12:52		RC/JU	Ok
9	P4426-17	PAD-9	BF139899.D	21 Oct 2024 13:20		RC/JU	Ok
10	P4426-11	PAD-6	BF139900.D	21 Oct 2024 13:49		RC/JU	Ok
11	P4396-01RE	WASTE-WATER-FRAC	BF139901.D	21 Oct 2024 14:18	Fax is already given	RC/JU	Confirms
12	P4385-06MS	SP-3MS	BF139902.D	21 Oct 2024 14:47		RC/JU	Ok,M
13	P4385-06MSD	SP-3MSD	BF139903.D	21 Oct 2024 15:15		RC/JU	Ok,M
14	P4403-01RE	Hawthorne TP SoilRE	BF139904.D	21 Oct 2024 15:44	Fax is already given	RC/JU	Confirms
15	P4410-01RE	TR-04-101524RE	BF139905.D	21 Oct 2024 16:12	Fax is already given	RC/JU	Confirms
16	P4410-01MS	TR-04-101524MS	BF139906.D	21 Oct 2024 16:42		RC/JU	Ok,M
17	P4410-01MSD	TR-04-101524MSD	BF139907.D	21 Oct 2024 17:11		RC/JU	Ok,M
18	P4395-01RE	F05308-SOLIDRE	BF139908.D	21 Oct 2024 17:39	Fax is already given	RC/JU	Confirms

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102124

Review By	yogesh	Review On	10/22/2024 4:38:40 AM		
Supervise By	mohammad	Supervise On	10/23/2024 4:28:27 AM		
SubDirectory	BF102124	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	

19	P4400-01RE	NB-08-101424RE	BF139909.D	21 Oct 2024 18:08	Fax is already given	RC/JU	Confirms
20	P4401-01RE	SU-03-101424RE	BF139910.D	21 Oct 2024 18:37	Fax is already given	RC/JU	Confirms
21	P4406-01RE	OK-02-101524RE	BF139911.D	21 Oct 2024 19:06	Fax is already given	RC/JU	Confirms
22	P4419-01	IB-1	BF139912.D	21 Oct 2024 19:34		RC/JU	Ok,M
23	P4419-01MS	IB-1MS	BF139913.D	21 Oct 2024 20:03		RC/JU	Ok,M
24	P4419-01MSD	IB-1MSD	BF139914.D	21 Oct 2024 20:32		RC/JU	Ok,M
25	P4455-01	SU-4-101824	BF139915.D	21 Oct 2024 21:01		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102224

Review By	Jagrut	Review On	10/23/2024 2:28:42 PM		
Supervise By	mohammad	Supervise On	10/24/2024 1:59:10 AM		
SubDirectory	BF102224	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	BF139916.D	22 Oct 2024 09:11		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139917.D	22 Oct 2024 09:39		RC/JU	Ok,M
3	PB164152BL	PB164152BL	BF139918.D	22 Oct 2024 10:07		RC/JU	Ok
4	PB164152BS	PB164152BS	BF139919.D	22 Oct 2024 10:36		RC/JU	Ok,M
5	PB164071BL	PB164071BL	BF139920.D	22 Oct 2024 11:05		RC/JU	Ok
6	PB164071BS	PB164071BS	BF139921.D	22 Oct 2024 11:34		RC/JU	Ok,M
7	PB164176BL	PB164176BL	BF139922.D	22 Oct 2024 12:03		RC/JU	Ok
8	PB164176BS	PB164176BS	BF139923.D	22 Oct 2024 12:32		RC/JU	Ok,M
9	PB164246BL	PB164246BL	BF139924.D	22 Oct 2024 13:01		RC/JU	Ok
10	PB164246BS	PB164246BS	BF139925.D	22 Oct 2024 13:31		RC/JU	Ok,M
11	DFTPP	DFTPP	BF139926.D	22 Oct 2024 14:00		RC/JU	Ok
12	SSTDCCC040	SSTDCCC040	BF139927.D	22 Oct 2024 14:28		RC/JU	Ok,M
13	PB164154BL	PB164154BL	BF139928.D	22 Oct 2024 14:58		RC/JU	Ok
14	P4452-01	ETGI-285	BF139929.D	22 Oct 2024 15:32		RC/JU	Ok
15	P4419-04	IB-1	BF139930.D	22 Oct 2024 16:01		RC/JU	Ok
16	P4419-04MS	IB-1MS	BF139931.D	22 Oct 2024 16:30		RC/JU	Ok,M
17	P4419-04MSD	IB-1MSD	BF139932.D	22 Oct 2024 16:59		RC/JU	Ok,M
18	P4458-02	280517	BF139933.D	22 Oct 2024 17:29		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102224

Review By	Jagrut	Review On	10/23/2024 2:28:42 PM		
Supervise By	mohammad	Supervise On	10/24/2024 1:59:10 AM		
SubDirectory	BF102224	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	

19	P4443-05	OG-315-HR-502-COMP	BF139934.D	22 Oct 2024 17:58		RC/JU	Ok
20	P4443-10	OG-315-HR-502-COMP	BF139935.D	22 Oct 2024 18:27		RC/JU	Ok
21	P4385-08	SP-4	BF139936.D	22 Oct 2024 18:56		RC/JU	Ok
22	P4385-04	SP-2	BF139937.D	22 Oct 2024 19:25		RC/JU	Ok
23	P4385-06	SP-3	BF139938.D	22 Oct 2024 19:54		RC/JU	Ok
24	P4403-01MSD	Hawthorne TP SoilMSD	BF139939.D	22 Oct 2024 20:22		RC/JU	Ok,M
25	P4403-01MS	Hawthorne TP SoilMS	BF139940.D	22 Oct 2024 20:51		RC/JU	Ok,M
26	P4385-02	SP-1	BF139941.D	22 Oct 2024 21:20		RC/JU	Ok
27	P4456-01	PAD-10182024	BF139942.D	22 Oct 2024 21:49	Internal Standrad Fail	RC/JU	Ok
28	P4431-01MS	72-11934MS	BF139943.D	22 Oct 2024 22:17		RC/JU	Ok,M
29	P4431-01MSD	72-11934MSD	BF139944.D	22 Oct 2024 22:46		RC/JU	Ok,M
30	P4385-16	SP-8	BF139945.D	22 Oct 2024 23:14		RC/JU	Ok
31	P4385-18	SP-9	BF139946.D	22 Oct 2024 23:43		RC/JU	Ok
32	P4385-12	SP-6	BF139947.D	23 Oct 2024 00:11		RC/JU	Ok
33	P4443-01	OG-315-HR-502-COMP	BF139948.D	23 Oct 2024 00:40		RC/JU	Ok,M
34	P4385-10	SP-5	BF139949.D	23 Oct 2024 01:08		RC/JU	Ok
35	P4443-06	OG-315-HR-502-COMP	BF139950.D	23 Oct 2024 01:36	Need further 5X Dilution	RC/JU	Dilution

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	BF139951.D	23 Oct 2024 08:52		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139952.D	23 Oct 2024 09:20		RC/JU	Ok,M
3	PB164020BL	PB164020BL	BF139953.D	23 Oct 2024 09:48		RC/JU	Ok
4	PB164020BS	PB164020BS	BF139954.D	23 Oct 2024 10:17		RC/JU	Ok,M
5	PB164237BL	PB164237BL	BF139955.D	23 Oct 2024 10:45		RC/JU	Ok
6	PB164237BS	PB164237BS	BF139956.D	23 Oct 2024 11:14		RC/JU	Ok,M
7	PB164208BL	PB164208BL	BF139957.D	23 Oct 2024 11:42		RC/JU	Ok
8	PB164216BS	PB164216BS	BF139958.D	23 Oct 2024 12:10		RC/JU	Ok,M
9	PB164123BS	PB164123BS	BF139959.D	23 Oct 2024 12:39		RC/JU	Ok,M
10	PB164154BS	PB164154BS	BF139960.D	23 Oct 2024 13:07		RC/JU	Ok,M
11	PB164154BSD	PB164154BSD	BF139961.D	23 Oct 2024 13:36		RC/JU	Ok,M
12	PB164286BL	PB164286BL	BF139962.D	23 Oct 2024 14:04		RC/JU	Ok
13	PB164286BS	PB164286BS	BF139963.D	23 Oct 2024 14:33		RC/JU	Ok,M
14	DFTPP	DFTPP	BF139964.D	23 Oct 2024 15:01		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF139965.D	23 Oct 2024 15:30		RC/JU	Ok,M
16	PB164195TB	PB164195TB	BF139966.D	23 Oct 2024 15:58		RC/JU	Ok
17	P4397-06	WB-301-BOT	BF139967.D	23 Oct 2024 16:32		RC/JU	Ok
18	P4443-06DL	OG-315-HR-502-COMP	BF139968.D	23 Oct 2024 17:01		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	

19	P4458-01	280517	BF139969.D	23 Oct 2024 17:30		RC/JU	Ok,M
20	P4397-06MS	WB-301-BOTMS	BF139970.D	23 Oct 2024 17:59		RC/JU	Ok,M
21	P4397-06MSD	WB-301-BOTMSD	BF139971.D	23 Oct 2024 18:28		RC/JU	Ok,M
22	P4472-04	BP-F-28	BF139972.D	23 Oct 2024 18:56		RC/JU	Ok
23	P4468-06	ETGI-345	BF139973.D	23 Oct 2024 19:25		RC/JU	Ok
24	P4468-04	ETGI-329	BF139974.D	23 Oct 2024 19:54		RC/JU	Ok
25	P4397-04	WB-301-SW	BF139975.D	23 Oct 2024 20:22		RC/JU	Ok
26	P4397-02	WB-301-BOT	BF139976.D	23 Oct 2024 20:51		RC/JU	Ok
27	P4397-02MS	WB-301-BOTMS	BF139977.D	23 Oct 2024 21:20		RC/JU	Ok,M
28	P4397-02MSD	WB-301-BOTMSD	BF139978.D	23 Oct 2024 21:49		RC/JU	Ok,M
29	P4397-01	WB-301-TOP	BF139979.D	23 Oct 2024 22:17		RC/JU	Ok,M
30	P4468-05	ETGI-345	BF139980.D	23 Oct 2024 22:46		RC/JU	Ok
31	P4472-01	BP-F-28	BF139981.D	23 Oct 2024 23:14		RC/JU	Ok
32	P4385-20	SP-10	BF139982.D	23 Oct 2024 23:43		RC/JU	Ok,M
33	P4385-14	SP-7	BF139983.D	24 Oct 2024 00:11		RC/JU	Ok
34	P4474-01	TS-2	BF139984.D	24 Oct 2024 00:40		RC/JU	Ok
35	P4473-01	TS-1	BF139985.D	24 Oct 2024 01:08		RC/JU	Ok
36	P4489-01	RT-2675	BF139986.D	24 Oct 2024 01:37	Internal Standard Failed, Need 5X Dilution	RC/JU	Dilution
37	P4486-01	EO-03-102224	BF139987.D	24 Oct 2024 02:06		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	

38	P4468-03	ETGI-329	BF139988.D	24 Oct 2024 02:34		RC/JU	Ok,M

M : Manual Integration

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EXTRACTION LOGPAGE

PB164123

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/14/2024
Matrix :	Solid			**Extraction Start Time :**	10:40
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	10/14/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:40
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
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6524
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	EP2546
Sand	N/A	E2865
Methylene Chloride	N/A	E3817
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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
10/14/24	RP (Ext. Lab)	AC/SVOC
13:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164123

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/14/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164123BL	SBLK123	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			U6-1
PB164123BS	SLCS123	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			2
P4395-01	F05308-SOLID	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		3
P4397-01	WB-301-TOP	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		4
P4397-02	WB-301-BOT	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		5
P4397-02MS	WB-301-BOTMS	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
P4397-02MSD	WB-301-BOTMSD	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		U7-1

* **Extracts relinquished on the same date as received.**

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4397S **WorkList ID :** 184414 **Department :** Extraction **Date :** 10-14-2024 10:30:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4395-01	F05308-SOLID	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K33	10/11/2024	8270E
P4397-01	WB-301-TOP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K32	10/10/2024	8270E
P4397-02	WB-301-BOT	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K32	10/10/2024	8270E

Date/Time 10/14/24 10:25
Raw Sample Received by: RJ (Eat. (04)
Raw Sample Relinquished by: SM

Date/Time 10/14/24 10:50
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Eat (04)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164154

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/15/2024
Matrix :	Water			**Extraction Start Time :**	08:40
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	10/15/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	13:40
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	SP6524
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	EP2546
10N NaoH	N/A	EP2523
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

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.

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
10/15/24	RP (Ext. Lab)	RC/SVOC
13:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164154

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 10/15/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164154BL	SBLK154	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			SEP-01
PB164154BS	SLCS154	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			2
PB164154BSD	SLCSD154	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			3
P4396-01	WASTE-WATER-FRAC-TANK	SVOC-TCL BNA -20	990	6	RUPESH	rajesh	1	I		4
P4397-04	WB-301-SW	SVOC-TCL BNA -20	960	6	RUPESH	rajesh	1	F		5

* **Extracts relinquished on the same date as received.**

10/15/24

P4397 10/15/24 8:40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4397SV **WorkList ID :** 184445 **Department :** Extraction **Date :** 10-15-2024 08:21:40

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4396-01	WASTE-WATER-FRAC-TANK	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K32	10/11/2024	8270E
P4397-04	WB-301-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K32	10/10/2024	8270E

Date/Time 10/15/24 8:35
Raw Sample Received by: RJ (Hexas Labs)
Raw Sample Relinquished by: JD (SM)

Date/Time 10/15/24 9:00
Raw Sample Received by: JD (SM)
Raw Sample Relinquished by: RJ (Hexas Labs)

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LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**SOIL**			**10/10/24**			**10/11/24**
			SVOC-TCL BNA -20	8270E		10/14/24	10/23/24	
P4397-02	**WB-301-BOT**	**SOIL**			**10/10/24**			**10/11/24**
			SVOC-TCL BNA -20	8270E		10/14/24	10/23/24	
P4397-04	**WB-301-SW**	**Water**			**10/10/24**			**10/11/24**
			SVOC-TCL BNA -20	8270E		10/15/24	10/23/24	

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Hit Summary Sheet
SW-846

SDG No.: P4397

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-06	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
BF139967.D	1	10/22/24 10:30	10/23/24 16:32	PB164315

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	134		15 (10) - 110 (139)	89%	SPK: 150
13127-88-3	Phenol-d6	127		15 (10) - 110 (134)	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.6		30 (49) - 130 (133)	99%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.9		30 (52) - 130 (132)	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	158		15 (44) - 110 (137)	105%	SPK: 150
1718-51-0	Terphenyl-d14	91.2		30 (48) - 130 (125)	91%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	156000	6.892			
1146-65-2	Naphthalene-d8	613000	8.169			
15067-26-2	Acenaphthene-d10	338000	9.927			
1517-22-2	Phenanthrene-d10	580000	11.41			
1719-03-5	Chrysene-d12	346000	14.051			
1520-96-3	Perylene-d12	384000	15.527			

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/11/24
Client Sample ID:	WB-301-BOT			SDG No.:	P4397
Lab Sample ID:	P4397-06			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
BF139967.D	1	10/22/24 10:30	10/23/24 16:32	PB164315

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:	10/22/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/22/24
Client Sample ID:	PB164301TB	SDG No.:	P4397
Lab Sample ID:	PB164301TB	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
BF139995.D	1	10/22/24 10:30	10/24/24 12:17	PB164315

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	134		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	98.4		30 (49) - 130 (133)	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.8		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	161		15 (44) - 110 (137)	108%	SPK: 150
1718-51-0	Terphenyl-d14	93.5		30 (48) - 130 (125)	93%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	151000	6.886			
1146-65-2	Naphthalene-d8	595000	8.169			
15067-26-2	Acenaphthene-d10	334000	9.927			
1517-22-2	Phenanthrene-d10	606000	11.41			
1719-03-5	Chrysene-d12	377000	14.051			
1520-96-3	Perylene-d12	307000	15.527			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/22/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/22/24
Client Sample ID:	PB164301TB			SDG No.:	P4397
Lab Sample ID:	PB164301TB			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
BF139995.D	1	10/22/24 10:30	10/24/24 12:17	PB164315

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.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4397-06	WB-301-BOT	2-Fluorophenol	150	134	89		15 (10)	110 (139)
		Phenol-d6	150	127	85		15 (10)	110 (134)
		Nitrobenzene-d5	100	98.6	99		30 (49)	130 (133)
		2-Fluorobiphenyl	100	91.9	92		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	158	105		15 (44)	110 (137)
		Terphenyl-d14	100	91.2	91		30 (48)	130 (125)
P4397-06MS	WB-301-BOTMS	2-Fluorophenol	150	127	85		15 (10)	110 (139)
		Phenol-d6	150	118	79		15 (10)	110 (134)
		Nitrobenzene-d5	100	99.6	100		30 (49)	130 (133)
		2-Fluorobiphenyl	100	102	102		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	140	94		15 (44)	110 (137)
		Terphenyl-d14	100	79.0	79		30 (48)	130 (125)
P4397-06MSD	WB-301-BOTMSD	2-Fluorophenol	150	140	93		15 (10)	110 (139)
		Phenol-d6	150	130	87		15 (10)	110 (134)
		Nitrobenzene-d5	100	111	111		30 (49)	130 (133)
		2-Fluorobiphenyl	100	112	112		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	154	103		15 (44)	110 (137)
		Terphenyl-d14	100	84.9	85		30 (48)	130 (125)
PB164261TB	PB164261TB	2-Fluorophenol	150	133	88		15 (10)	110 (139)
		Phenol-d6	150	128	85		15 (10)	110 (134)
		Nitrobenzene-d5	100	98.2	98		30 (49)	130 (133)
		2-Fluorobiphenyl	100	95.6	96		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	157	105		15 (44)	110 (137)
		Terphenyl-d14	100	101	101		30 (48)	130 (125)
PB164315BL	PB164315BL	2-Fluorophenol	150	134	90		15 (10)	110 (139)
		Phenol-d6	150	130	86		15 (10)	110 (134)
		Nitrobenzene-d5	100	99.7	100		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.9	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	161	108		15 (44)	110 (137)
		Terphenyl-d14	100	95.3	95		30 (48)	130 (125)
PB164315BS	PB164315BS	2-Fluorophenol	150	126	84		15 (10)	110 (139)
		Phenol-d6	150	123	82		15 (10)	110 (134)
		Nitrobenzene-d5	100	93.4	93		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.4	93		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	158	105		15 (44)	110 (137)
		Terphenyl-d14	100	107	107		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

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: P4397-06MS		**Client Sample ID: WB-301-BOTMS**						**DataFile: BF139970.D**			
Pyridine	500	0	260	ug/L	52				20 (10)	160 (109)	
1,4-Dichlorobenzene	500	0	410	ug/L	82				70 (55)	130 (125)	
2-Methylphenol	500	0	450	ug/L	90				70 (37)	130 (126)	
3+4-Methylphenols	500	0	430	ug/L	86				20 (31)	160 (127)	
Hexachloroethane	500	0	400	ug/L	80				20 (49)	160 (110)	
Nitrobenzene	500	0	430	ug/L	86				70 (62)	130 (112)	
Hexachlorobutadiene	500	0	440	ug/L	88				70 (52)	130 (125)	
2,4,6-Trichlorophenol	500	0	520	ug/L	104				70 (78)	130 (112)	
2,4,5-Trichlorophenol	500	0	490	ug/L	98				70 (71)	130 (111)	
2,4-Dinitrotoluene	500	0	520	ug/L	104				70 (50)	130 (142)	
Hexachlorobenzene	500	0	490	ug/L	98				70 (72)	130 (115)	
Pentachlorophenol	1000	0	1000	ug/L	100				20 (25)	160 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

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: P4397-06MSD		**Client Sample ID:** WB-301-BOTMSD						**DataFile:** BF139971.D			
Pyridine	500	0	310	ug/L	62		18		20 (10)	160 (109)	20 (20)
1,4-Dichlorobenzene	500	0	450	ug/L	90		9		70 (55)	130 (125)	20 (20)
2-Methylphenol	500	0	490	ug/L	98		9		70 (37)	130 (126)	20 (20)
3+4-Methylphenols	500	0	470	ug/L	94		9		20 (31)	160 (127)	20 (20)
Hexachloroethane	500	0	440	ug/L	88		10		20 (49)	160 (110)	20 (20)
Nitrobenzene	500	0	490	ug/L	98		13		70 (62)	130 (112)	20 (20)
Hexachlorobutadiene	500	0	490	ug/L	98		11		70 (52)	130 (125)	20 (20)
2,4,6-Trichlorophenol	500	0	570	ug/L	114		9		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	500	0	540	ug/L	108		10		70 (71)	130 (111)	20 (20)
2,4-Dinitrotoluene	500	0	570	ug/L	114		9		70 (50)	130 (142)	20 (20)
Hexachlorobenzene	500	0	550	ug/L	110		12		70 (72)	130 (115)	20 (20)
Pentachlorophenol	1000	0	1100	ug/L	110		10		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.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139994.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164315BS	Pyridine	50	38.8	ug/L	78				20 (29)	160 (97)	
	1,4-Dichlorobenzene	50	45.3	ug/L	91				70 (76)	130 (103)	
	2-Methylphenol	50	46.6	ug/L	93				70 (69)	130 (109)	
	3+4-Methylphenols	50	44.2	ug/L	88				20 (67)	160 (106)	
	Hexachloroethane	50	45.5	ug/L	91				20 (76)	160 (118)	
	Nitrobenzene	50	43.6	ug/L	87				70 (58)	130 (106)	
	Hexachlorobutadiene	50	45.3	ug/L	91				70 (69)	130 (101)	
	2,4,6-Trichlorophenol	50	50.9	ug/L	102				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	49.7	ug/L	99				70 (70)	130 (106)	
	2,4-Dinitrotoluene	50	54.7	ug/L	109				70 (60)	130 (115)	
	Hexachlorobenzene	50	49.6	ug/L	99				70 (73)	130 (106)	
	Pentachlorophenol	100	99.2	ug/L	99				20 (47)	160 (114)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164315BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139993.D Lab Sample ID: PB164315BL

Instrument ID: BNA_F Date Extracted: 10/22/2024

Matrix: (soil/water) water Date Analyzed: 10/24/2024

Level: (low/med) LOW Time Analyzed: 11:20

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164315BS	PB164315BS	BF139994.D	10/24/2024
PB164261TB	PB164261TB	BF140002.D	10/24/2024
WB-301-BOT	P4397-06	BF139967.D	10/23/2024
WB-301-BOTMS	P4397-06MS	BF139970.D	10/23/2024
WB-301-BOTMSD	P4397-06MSD	BF139971.D	10/23/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

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.: P4397 SDG NO.: P4397

Lab File ID: BF139964.D DFTPP Injection Date: 10/23/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	30.6
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	39
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	25.4
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.4
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	BF139965.D	10/23/2024	15:30
WB-301-BOT	P4397-06	BF139967.D	10/23/2024	16:32
WB-301-BOTMS	P4397-06MS	BF139970.D	10/23/2024	17:59
WB-301-BOTMSD	P4397-06MSD	BF139971.D	10/23/2024	18:28

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139989.D DFTPP Injection Date: 10/24/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.5
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	29.8
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	37.5
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.6
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	14.9
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	BF139990.D	10/24/2024	09:55
PB164315BL	PB164315BL	BF139993.D	10/24/2024	11:20
PB164315BS	PB164315BS	BF139994.D	10/24/2024	11:49

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF140000.D DFTPP Injection Date: 10/24/2024

Instrument ID: BNA_F DFTPP Injection Time: 14:47

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 (1.9) 1
69	Mass 69 relative abundance	35.2
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	44.2
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	6.7
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140001.D	10/24/2024	15:16
PB164261TB	PB164261TB	BF140002.D	10/24/2024	15:44

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139965.D Time Analyzed: 15:30

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	159858	6.892	611382	8.18	340124	9.93
	UPPER LIMIT	319716	7.392	1222760	8.675	680248	10.428
	LOWER LIMIT	79929	6.392	305691	7.675	170062	9.428
	EPA SAMPLE NO.						
01	WB-301-BOT	156242	6.89	612656	8.17	337691	9.93
02	WB-301-BOTMS	145719	6.89	539980	8.18	259652	9.93
03	WB-301-BOTMSD	137496	6.89	502859	8.18	242617	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.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139965.D Time Analyzed: 15:30

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	597021	11.416	306092	14.057	358871	15.533
	UPPER LIMIT	1194040	11.916	612184	14.557	717742	16.033
	LOWER LIMIT	298511	10.916	153046	13.557	179436	15.033
	EPA SAMPLE NO.						
01	WB-301-BOT	580027	11.41	346002	14.05	384483	15.53
02	WB-301-BOTMS	394534	11.42	319585	14.06	328571	15.53
03	WB-301-BOTMSD	363131	11.42	305569	14.06	311545	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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF139990.D Time Analyzed: 09:55

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	160242	6.892	587754	8.18	322730	9.93
	UPPER LIMIT	320484	7.392	1175510	8.675	645460	10.428
	LOWER LIMIT	80121	6.392	293877	7.675	161365	9.428
	EPA SAMPLE NO.						
01	PB164315BL	148560	6.89	574491	8.17	327603	9.93
02	PB164315BS	143702	6.89	566601	8.18	302186	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.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF139990.D Time Analyzed: 09:55

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	552693	11.416	268892	14.057	303963	15.533
	UPPER LIMIT	1105390	11.916	537784	14.557	607926	16.033
	LOWER LIMIT	276347	10.916	134446	13.557	151982	15.033
	EPA SAMPLE NO.						
01	PB164315BL	592376	11.41	363554	14.05	290384	15.53
02	PB164315BS	535948	11.42	260625	14.05	282742	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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF140001.D Time Analyzed: 15:16

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	162461	6.892	593909	8.18	325446	9.93
	UPPER LIMIT	324922	7.392	1187820	8.675	650892	10.428
	LOWER LIMIT	81230.5	6.392	296955	7.675	162723	9.428
	EPA SAMPLE NO.						
01	PB164261TB	152409	6.89	588451	8.17	328828	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.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF140001.D Time Analyzed: 15:16

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	551060	11.416	264546	14.051	308388	15.533
	UPPER LIMIT	1102120	11.916	529092	14.551	616776	16.033
	LOWER LIMIT	275530	10.916	132273	13.551	154194	15.033
	EPA SAMPLE NO.						
01	PB164261TB	603559	11.41	330965	14.05	294008	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:	PB164315BL	SDG No.:	P4397
Lab Sample ID:	PB164315BL	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
BF139993.D	1	10/22/24 10:30	10/24/24 11:20	PB164315

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	134		15 (10) - 110 (139)	90%	SPK: 150
13127-88-3	Phenol-d6	130		15 (10) - 110 (134)	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.7		30 (49) - 130 (133)	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.9		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	161		15 (44) - 110 (137)	108%	SPK: 150
1718-51-0	Terphenyl-d14	95.3		30 (48) - 130 (125)	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	149000	6.886			
1146-65-2	Naphthalene-d8	574000	8.169			
15067-26-2	Acenaphthene-d10	328000	9.927			
1517-22-2	Phenanthrene-d10	592000	11.41			
1719-03-5	Chrysene-d12	364000	14.051			
1520-96-3	Perylene-d12	290000	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:	PB164315BL			SDG No.:	P4397
Lab Sample ID:	PB164315BL			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
BF139993.D	1	10/22/24 10:30	10/24/24 11:20	PB164315

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:	PB164315BS	SDG No.:	P4397
Lab Sample ID:	PB164315BS	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
BF139994.D	1	10/22/24 10:30	10/24/24 11:49	PB164315

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	38.8		1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	45.3		0.84	5.00	ug/L
95-48-7	2-Methylphenol	46.6		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	44.2		1.20	10.0	ug/L
67-72-1	Hexachloroethane	45.5		1.00	5.00	ug/L
98-95-3	Nitrobenzene	43.6		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.3		1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	50.9		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.7		1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	54.7		1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	49.6		1.10	5.00	ug/L
87-86-5	Pentachlorophenol	99.2	E	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	126		15 (10) - 110 (139)	84%	SPK: 150
13127-88-3	Phenol-d6	123		15 (10) - 110 (134)	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.4		30 (49) - 130 (133)	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.4		30 (52) - 130 (132)	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	158		15 (44) - 110 (137)	105%	SPK: 150
1718-51-0	Terphenyl-d14	107		30 (48) - 130 (125)	107%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	144000	6.892			
1146-65-2	Naphthalene-d8	567000	8.175			
15067-26-2	Acenaphthene-d10	302000	9.928			
1517-22-2	Phenanthrene-d10	536000	11.416			
1719-03-5	Chrysene-d12	261000	14.051			
1520-96-3	Perylene-d12	283000	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:	PB164315BS			SDG No.:	P4397
Lab Sample ID:	PB164315BS			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
BF139994.D	1	10/22/24 10:30	10/24/24 11:49	PB164315

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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-06MS	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
BF139970.D	1	10/22/24 10:30	10/23/24 17:59	PB164315

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	260		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	410		8.40	50.0	ug/L
95-48-7	2-Methylphenol	450		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	430		11.5	100	ug/L
67-72-1	Hexachloroethane	400		10.1	50.0	ug/L
98-95-3	Nitrobenzene	430		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	440		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	520		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	490		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	520		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	490		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	1000	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	127		15 (10) - 110 (139)	85%	SPK: 150
13127-88-3	Phenol-d6	118		15 (10) - 110 (134)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.6		30 (49) - 130 (133)	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	102		30 (52) - 130 (132)	102%	SPK: 100
118-79-6	2,4,6-Tribromophenol	140		15 (44) - 110 (137)	94%	SPK: 150
1718-51-0	Terphenyl-d14	79.0		30 (48) - 130 (125)	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	146000	6.893			
1146-65-2	Naphthalene-d8	540000	8.175			
15067-26-2	Acenaphthene-d10	260000	9.928			
1517-22-2	Phenanthrene-d10	395000	11.416			
1719-03-5	Chrysene-d12	320000	14.057			
1520-96-3	Perylene-d12	329000	15.533			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-06MS	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
BF139970.D	1	10/22/24 10:30	10/23/24 17:59	PB164315

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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-06MSD	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
BF139971.D	1	10/22/24 10:30	10/23/24 18:28	PB164315

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	310		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	450		8.40	50.0	ug/L
95-48-7	2-Methylphenol	490		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	470		11.5	100	ug/L
67-72-1	Hexachloroethane	440		10.1	50.0	ug/L
98-95-3	Nitrobenzene	490		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	490		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	570		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	570		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	550		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	1100	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	140		15 (10) - 110 (139)	93%	SPK: 150
13127-88-3	Phenol-d6	130		15 (10) - 110 (134)	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	111		30 (49) - 130 (133)	111%	SPK: 100
321-60-8	2-Fluorobiphenyl	112		30 (52) - 130 (132)	112%	SPK: 100
118-79-6	2,4,6-Tribromophenol	154		15 (44) - 110 (137)	103%	SPK: 150
1718-51-0	Terphenyl-d14	84.9		30 (48) - 130 (125)	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	137000	6.893			
1146-65-2	Naphthalene-d8	503000	8.175			
15067-26-2	Acenaphthene-d10	243000	9.928			
1517-22-2	Phenanthrene-d10	363000	11.416			
1719-03-5	Chrysene-d12	306000	14.057			
1520-96-3	Perylene-d12	312000	15.533			

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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-06MSD	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
BF139971.D	1	10/22/24 10:30	10/23/24 18:28	PB164315

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

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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 15:30

Lab File ID: BF139965.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	1.438		-2.6	
2-Fluorophenol	1.278	1.233		-3.5	
Phenol-d6	1.655	1.579		-4.6	
1,4-Dichlorobenzene	1.498	1.484		-0.9	20.0
2-Methylphenol	1.114	1.099		-1.3	
3+4-Methylphenols	1.424	1.388		-2.5	
Nitrobenzene-d5	0.361	0.370		2.5	
Hexachloroethane	0.534	0.530		-0.7	
Nitrobenzene	0.396	0.391		-1.3	
Hexachlorobutadiene	0.197	0.199		1.0	20.0
2,4,6-Trichlorophenol	0.382	0.381		-0.3	20.0
2-Fluorobiphenyl	1.210	1.169		-3.4	
2,4,5-Trichlorophenol	0.394	0.415		5.3	
2,4-Dinitrotoluene	0.332	0.379		14.2	
2,4,6-Tribromophenol	0.187	0.204		9.1	
Hexachlorobenzene	0.232	0.234		0.9	
Pentachlorophenol	0.141	0.157		11.3	20.0
Terphenyl-d14	1.227	1.227		0.0	

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 09:55

Lab File ID: BF139990.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	1.374		-6.9	
2-Fluorophenol	1.278	1.208		-5.5	
Phenol-d6	1.655	1.504		-9.1	
1,4-Dichlorobenzene	1.498	1.458		-2.7	20.0
2-Methylphenol	1.114	1.030		-7.5	
3+4-Methylphenols	1.424	1.299		-8.8	
Nitrobenzene-d5	0.361	0.374		3.6	
Hexachloroethane	0.534	0.521		-2.4	
Nitrobenzene	0.396	0.392		-1.0	
Hexachlorobutadiene	0.197	0.202		2.5	20.0
2,4,6-Trichlorophenol	0.382	0.403		5.5	20.0
2-Fluorobiphenyl	1.210	1.183		-2.2	
2,4,5-Trichlorophenol	0.394	0.395		0.3	
2,4-Dinitrotoluene	0.332	0.371		11.7	
2,4,6-Tribromophenol	0.187	0.205		9.6	
Hexachlorobenzene	0.232	0.240		3.4	
Pentachlorophenol	0.141	0.164		16.3	20.0
Terphenyl-d14	1.227	1.286		4.8	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 15:16

Lab File ID: BF140001.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	1.408		-4.6	
2-Fluorophenol	1.278	1.208		-5.5	
Phenol-d6	1.655	1.521		-8.1	
1,4-Dichlorobenzene	1.498	1.466		-2.1	20.0
2-Methylphenol	1.114	1.047		-6.0	
3+4-Methylphenols	1.424	1.322		-7.2	
Nitrobenzene-d5	0.361	0.374		3.6	
Hexachloroethane	0.534	0.526		-1.5	
Nitrobenzene	0.396	0.397		0.3	
Hexachlorobutadiene	0.197	0.203		3.0	20.0
2,4,6-Trichlorophenol	0.382	0.387		1.3	20.0
2-Fluorobiphenyl	1.210	1.197		-1.1	
2,4,5-Trichlorophenol	0.394	0.415		5.3	
2,4-Dinitrotoluene	0.332	0.371		11.7	
2,4,6-Tribromophenol	0.187	0.207		10.7	
Hexachlorobenzene	0.232	0.242		4.3	
Pentachlorophenol	0.141	0.159		12.8	20.0
Terphenyl-d14	1.227	1.306		6.4	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139967.D
Acq On : 23 Oct 2024 16:32
Operator : RC/JU
Sample : P4397-06
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Time: Oct 23 17:06:30 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

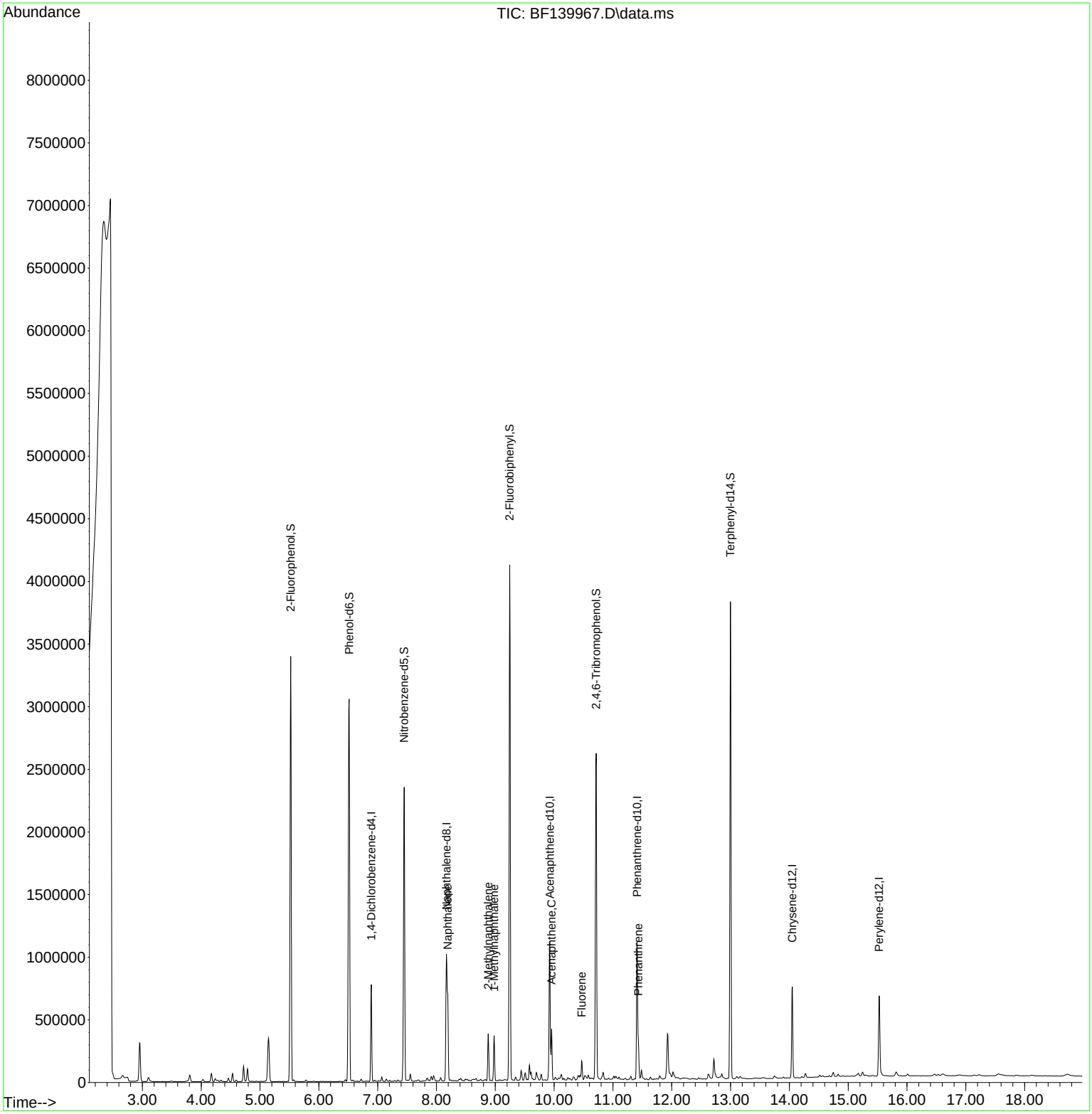
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	156242	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	612656	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	337691	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	580027	20.000	ng	0.00
76) Chrysene-d12	14.051	240	346002	20.000	ng	0.00
86) Perylene-d12	15.527	264	384483	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1337902	134.053	ng	0.02
7) Phenol-d6	6.516	99	1641886	127.020	ng	0.00
23) Nitrobenzene-d5	7.451	82	1090077	98.613	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	497608	157.538	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1878698	91.946	ng	0.00
79) Terphenyl-d14	12.998	244	1936806	91.213	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.192	128	410089	12.979	ng	100
37) 2-Methylnaphthalene	8.880	142	134304	6.940	ng	99
38) 1-Methylnaphthalene	8.980	142	128615	6.774	ng	98
52) Acenaphthene	9.957	154	118814	6.710	ng	99
58) Fluorene	10.469	166	66381	3.430	ng	98
71) Phenanthrene	11.433	178	148040	5.403	ng	98

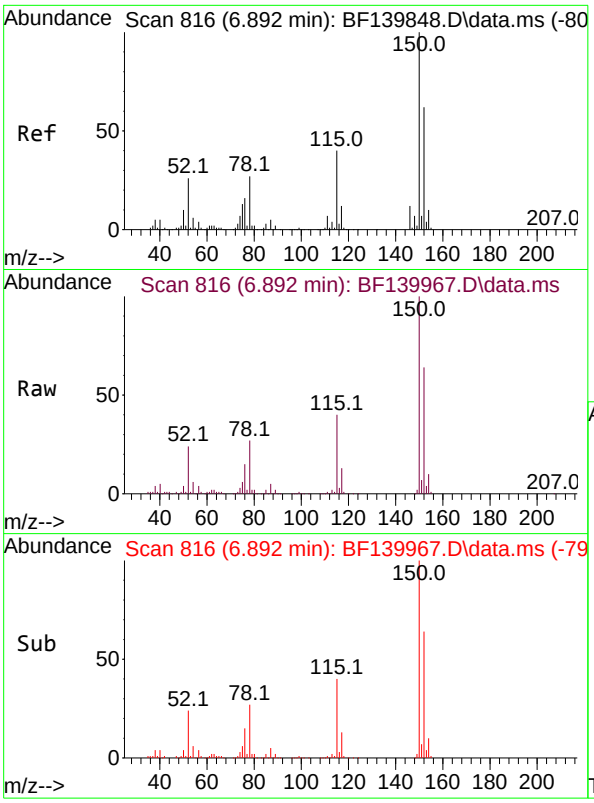
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139967.D
Acq On : 23 Oct 2024 16:32
Operator : RC/JU
Sample : P4397-06
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Time: Oct 23 17:06:30 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



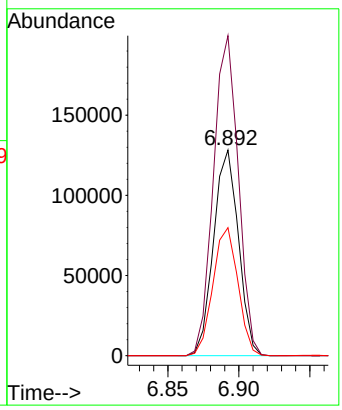


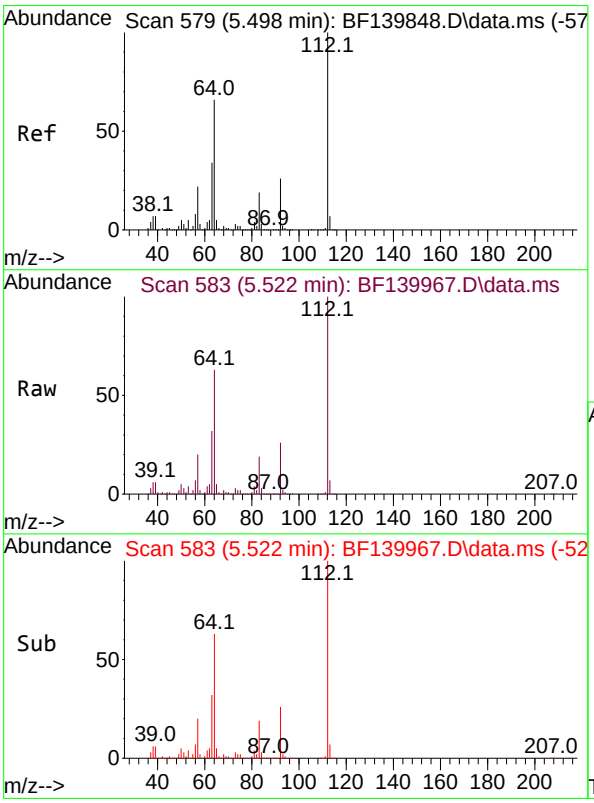
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:152 Resp: 156242

Ion	Ratio	Lower	Upper
152	100		
150	155.6	130.2	195.2
115	62.2	51.4	77.2

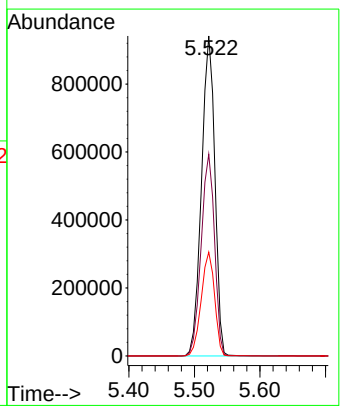


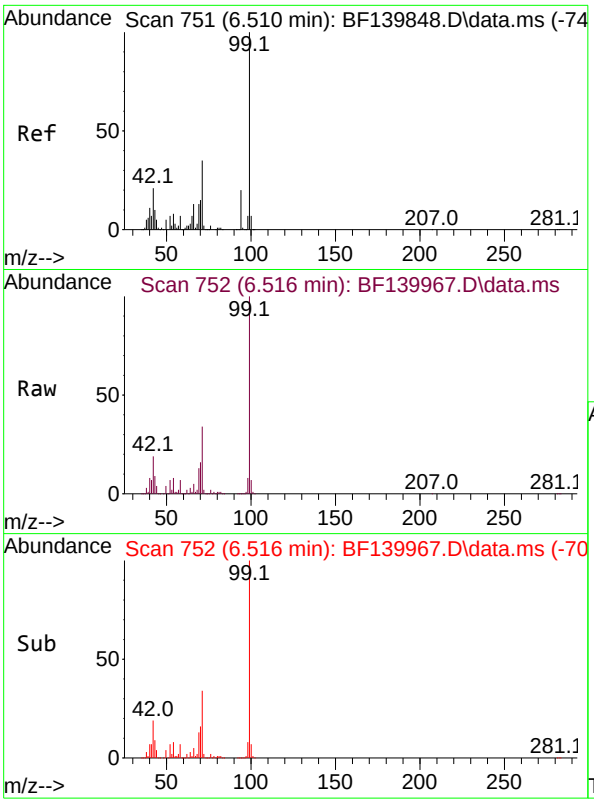


#5
2-Fluorophenol
Concen: 134.053 ng
RT: 5.522 min Scan# 583
Delta R.T. 0.024 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Tgt Ion:112 Resp: 1337902

Ion	Ratio	Lower	Upper
112	100		
64	63.1	53.0	79.6
63	32.5	27.0	40.4



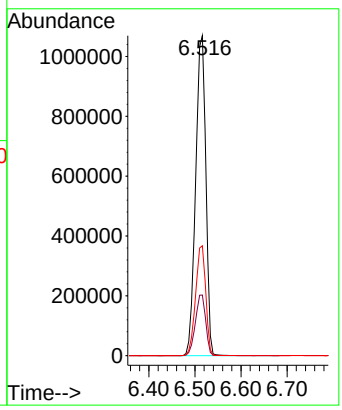


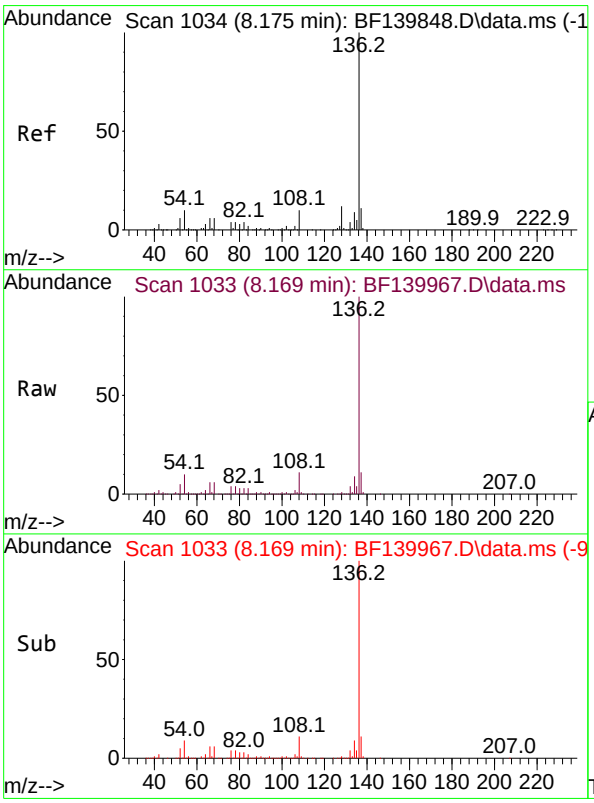
#7
Phenol-d6
Concen: 127.020 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion: 99 Resp: 1641886

Ion	Ratio	Lower	Upper
99	100		
42	19.0	16.7	25.1
71	34.4	27.7	41.5

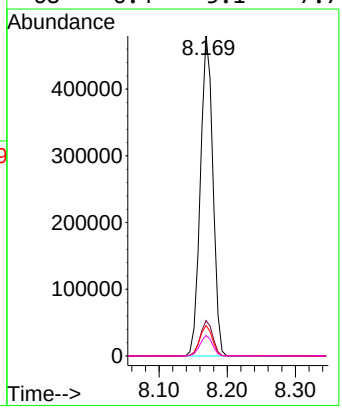


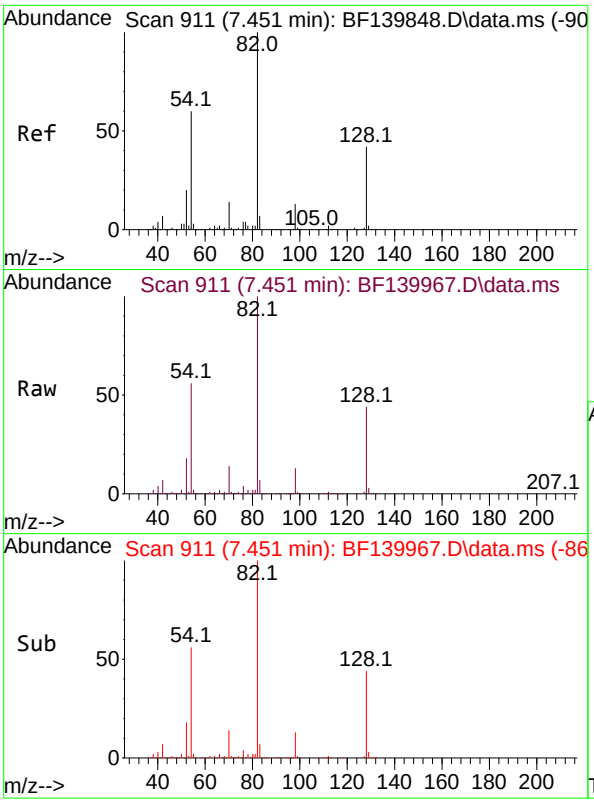


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Tgt Ion:136 Resp: 612656

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	9.5	8.4	12.6
68	6.4	5.1	7.7



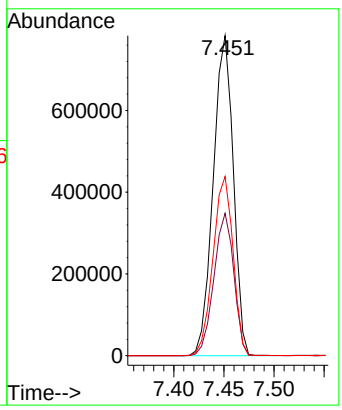


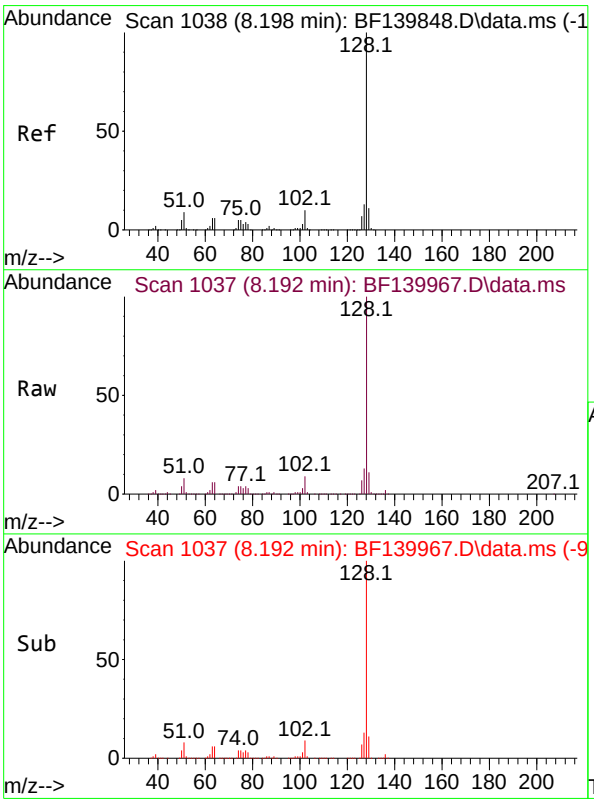
#23
Nitrobenzene-d5
Concen: 98.613 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion: 82 Resp: 1090077

Ion	Ratio	Lower	Upper
82	100		
128	44.5	33.4	50.0
54	56.0	47.8	71.8

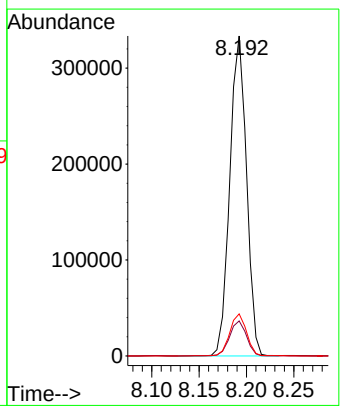


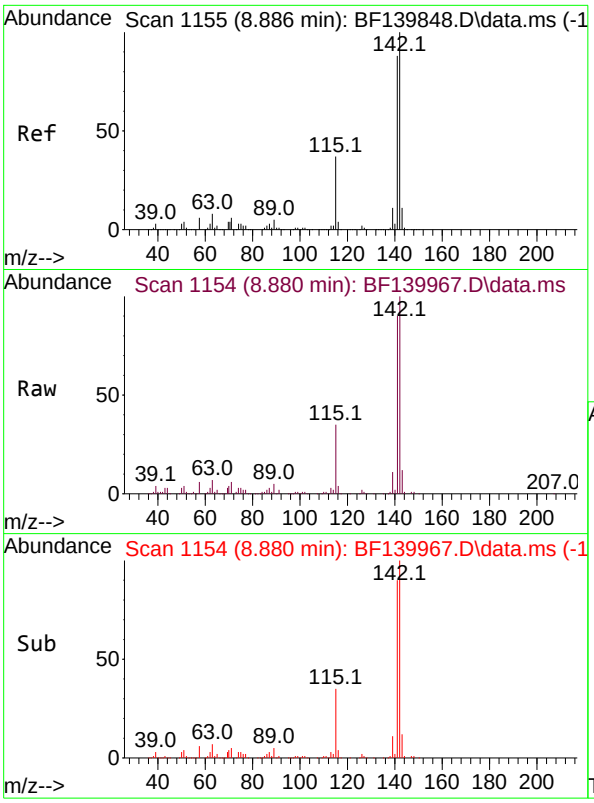


#31
Naphthalene
Concen: 12.979 ng
RT: 8.192 min Scan# 1037
Delta R.T. -0.006 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Tgt Ion:128 Resp: 410089

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.2	10.6	16.0



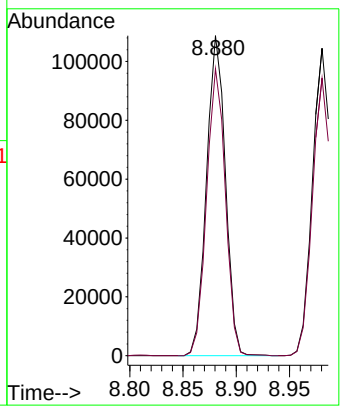


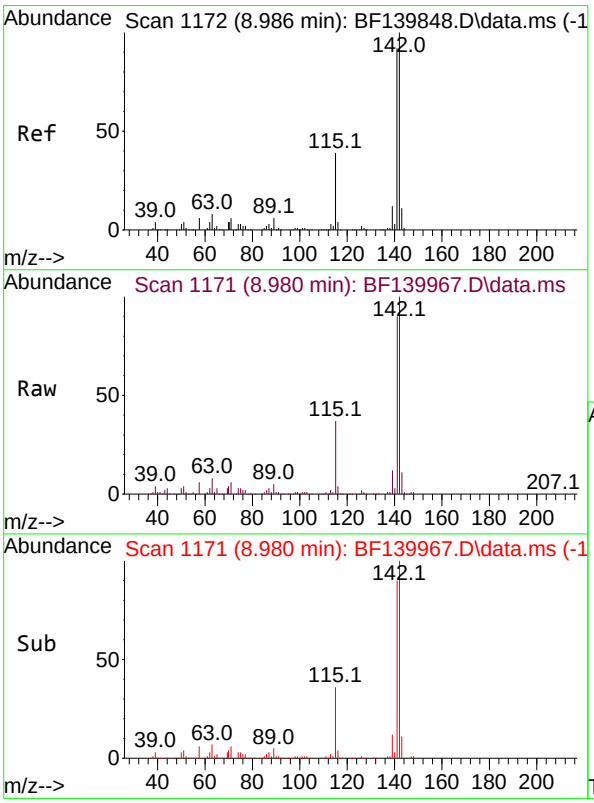
#37
2-Methylnaphthalene
Concen: 6.940 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:142 Resp: 134304

Ion	Ratio	Lower	Upper
142	100		
141	89.7	70.8	106.2

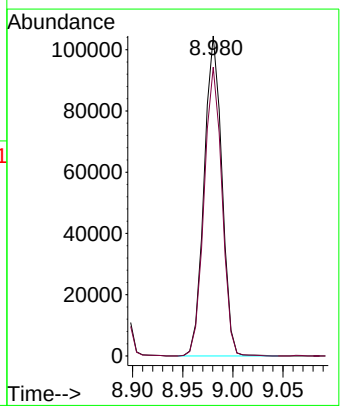


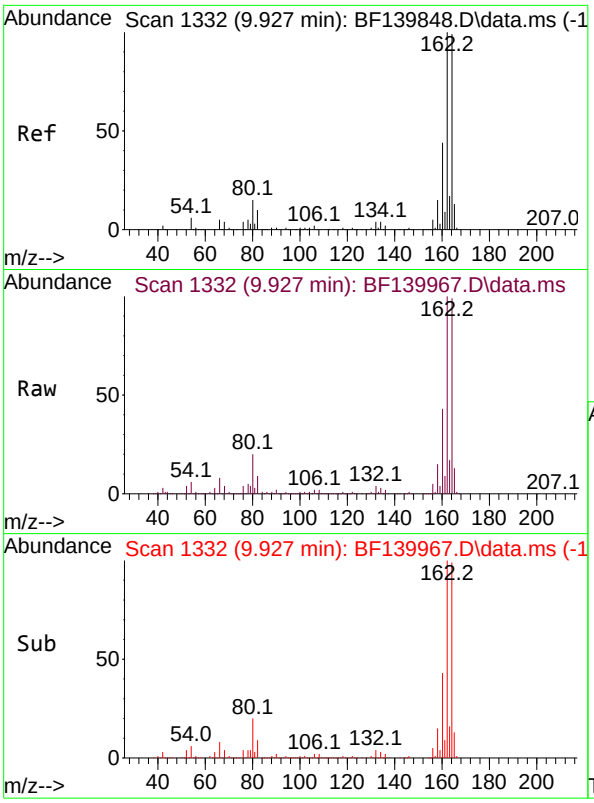


#38
1-Methylnaphthalene
Concen: 6.774 ng
RT: 8.980 min Scan# 1171
Delta R.T. -0.006 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Tgt Ion:142 Resp: 128615

Ion	Ratio	Lower	Upper
142	100		
141	90.3	73.5	110.3



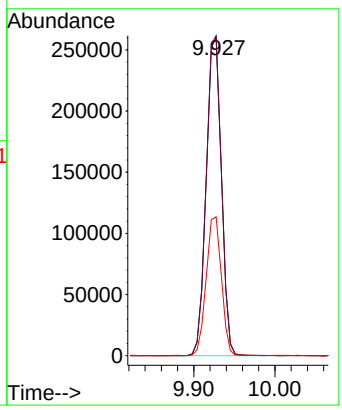


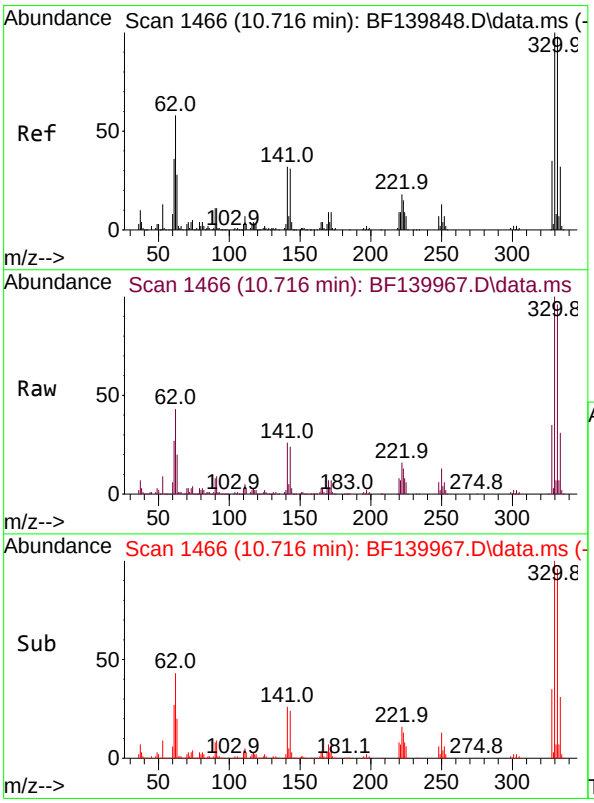
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:164 Resp: 337691

Ion	Ratio	Lower	Upper
164	100		
162	100.8	81.0	121.4
160	43.7	35.4	53.0

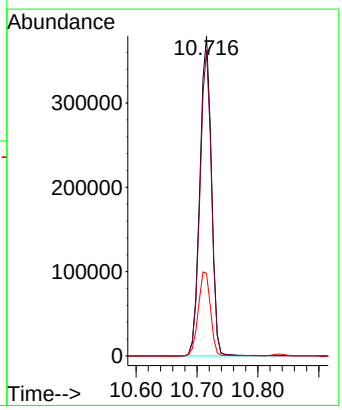


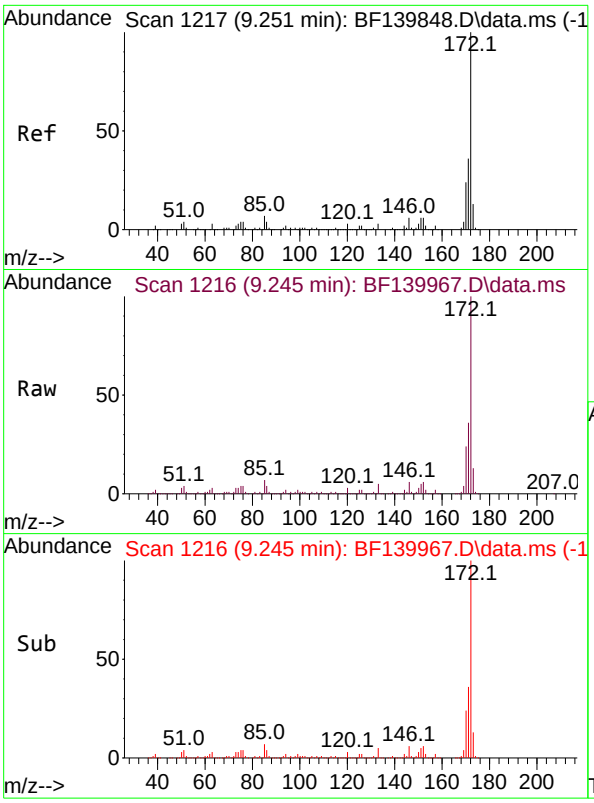


#42
2,4,6-Tribromophenol
Concen: 157.538 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Tgt Ion:330 Resp: 497608

Ion	Ratio	Lower	Upper
330	100		
332	94.9	78.1	117.1
141	27.9	26.6	39.8



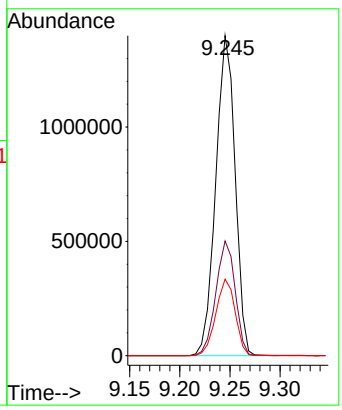


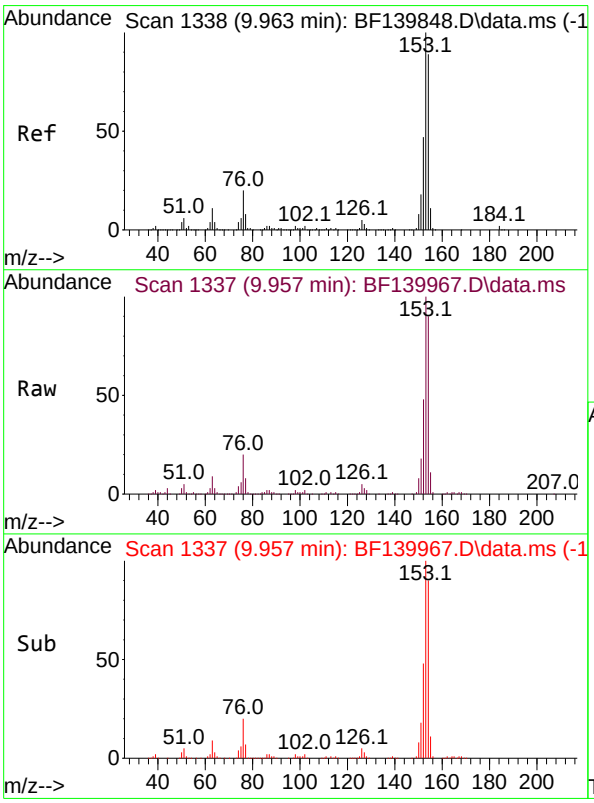
#45
2-Fluorobiphenyl
Concen: 91.946 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:172 Resp: 1878698

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	23.9	19.1	28.7

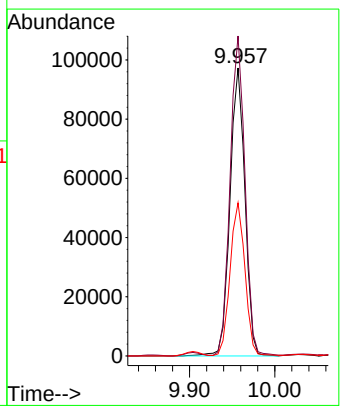


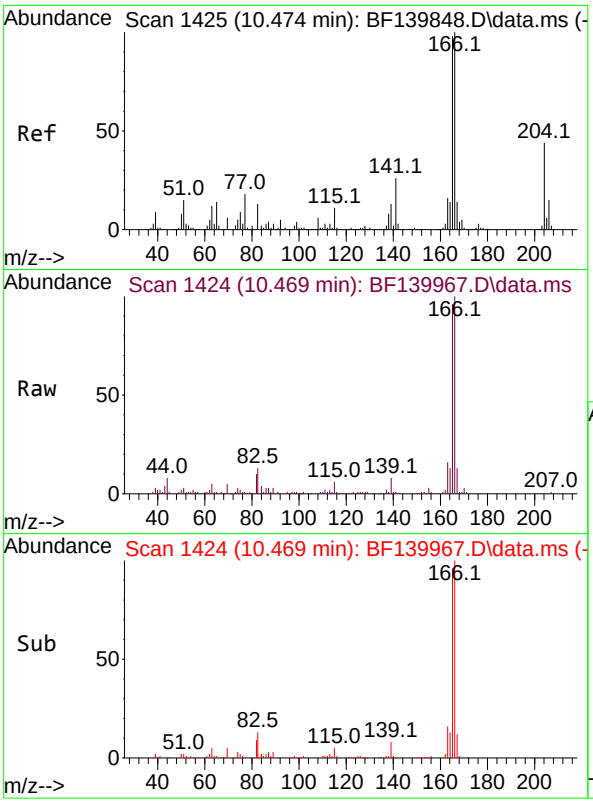


#52
Acenaphthene
Concen: 6.710 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Tgt Ion:154 Resp: 118814

Ion	Ratio	Lower	Upper
154	100		
153	111.1	89.8	134.6
152	53.2	42.4	63.6



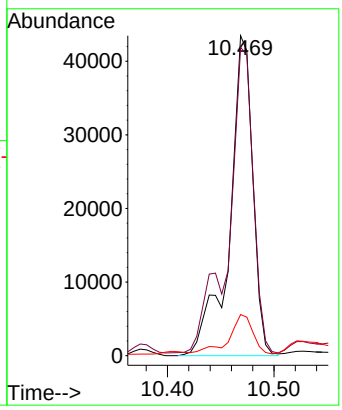


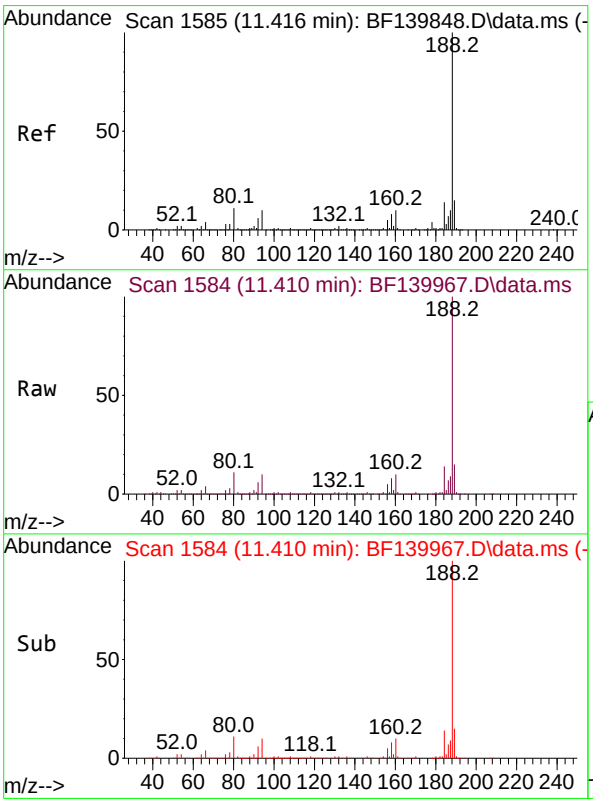
#58
Fluorene
Concen: 3.430 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:166 Resp: 66381

Ion	Ratio	Lower	Upper
166	100		
165	96.4	78.5	117.7
167	12.8	10.9	16.3

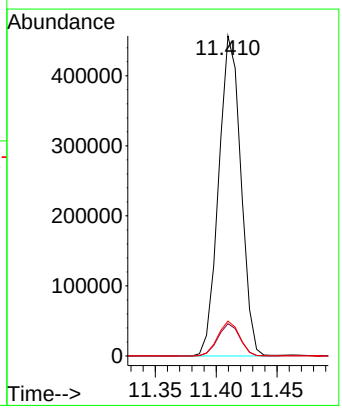


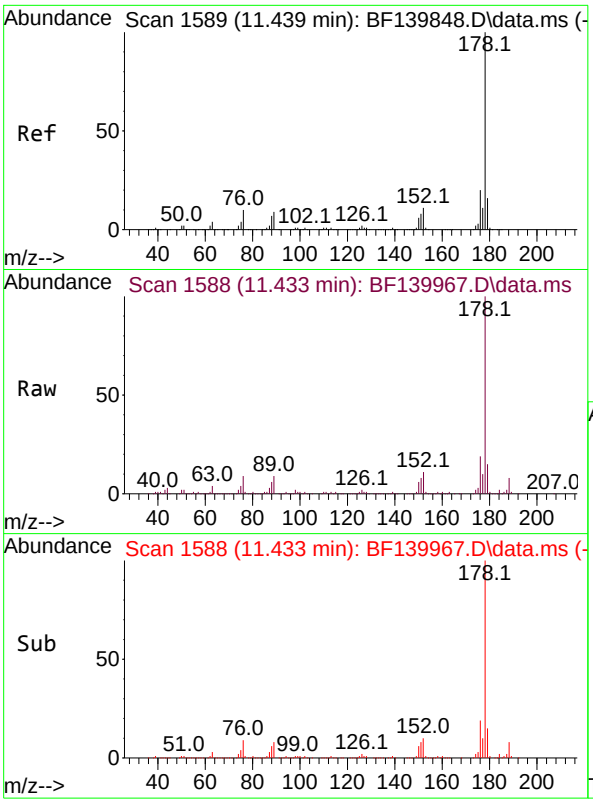


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Tgt Ion:188 Resp: 580027

Ion	Ratio	Lower	Upper
188	100		
94	10.1	7.9	11.9
80	10.9	9.0	13.4



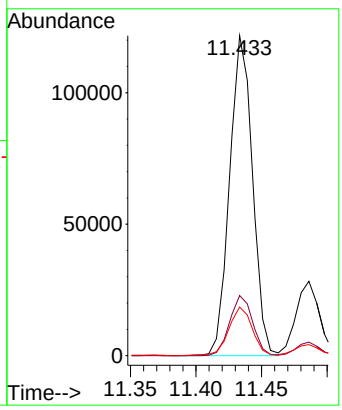


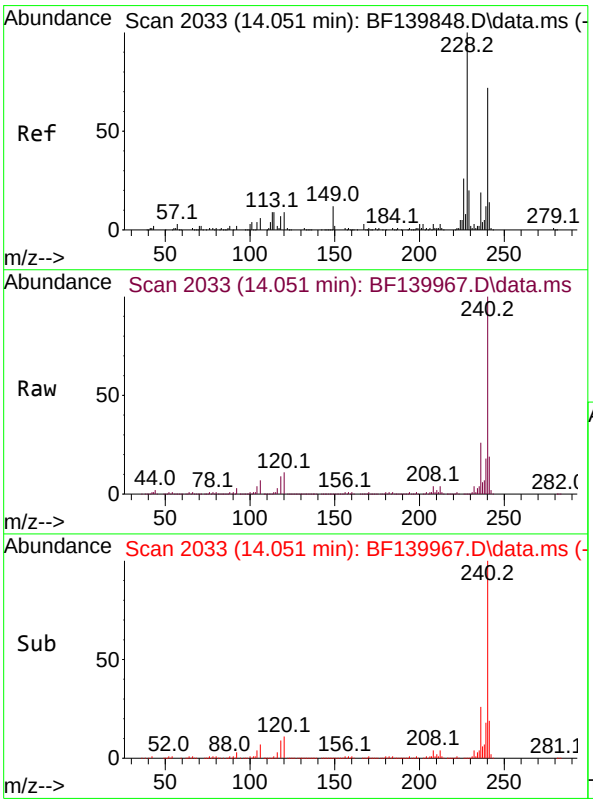
#71
Phenanthrene
Concen: 5.403 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:178 Resp: 148040

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.6
179	15.2	12.6	18.8

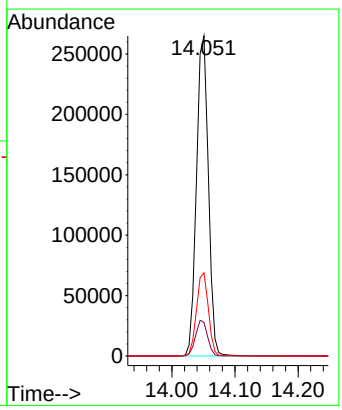


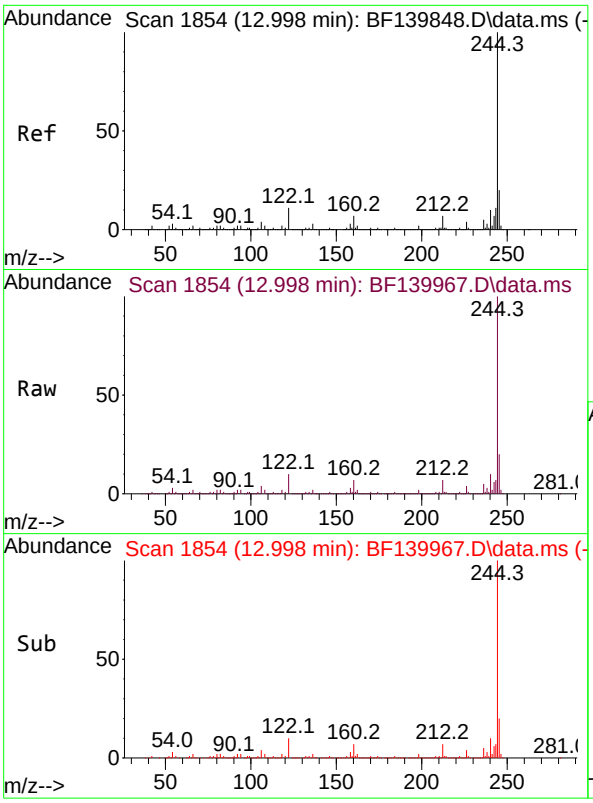


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Tgt Ion:240 Resp: 346002

Ion	Ratio	Lower	Upper
240	100		
120	10.5	9.4	14.2
236	26.0	20.9	31.3



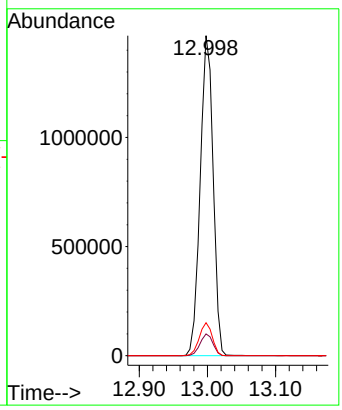


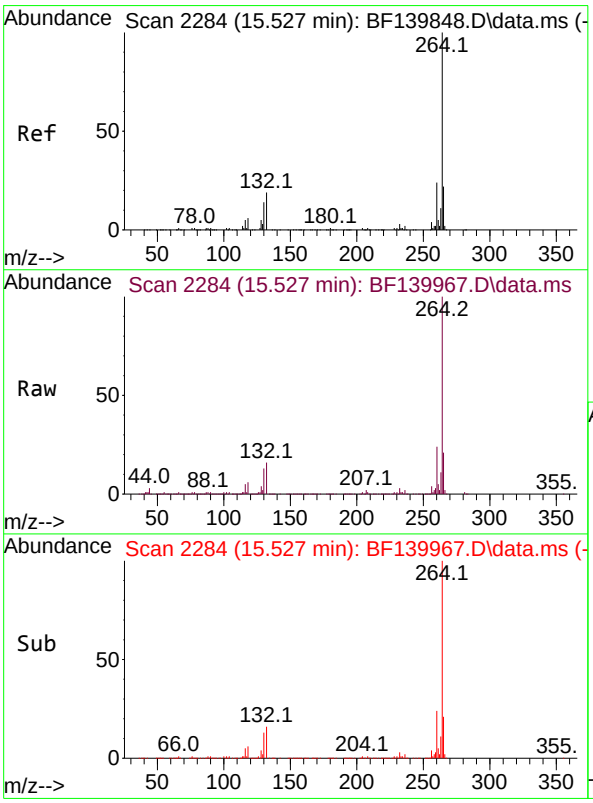
#79
Terphenyl-d14
Concen: 91.213 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:244 Resp: 1936806

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	10.3	8.6	13.0

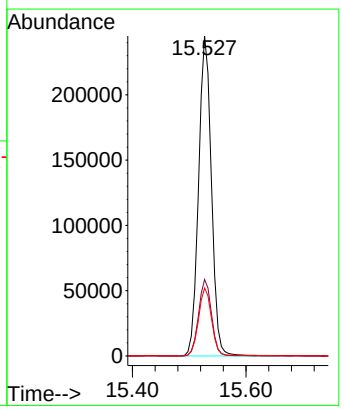




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139967.D
Acq: 23 Oct 2024 16:32

Tgt Ion:264 Resp: 384483

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	21.3	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139995.D
Acq On : 24 Oct 2024 12:17
Operator : RC/JU
Sample : PB164301TB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164301TB

Quant Time: Oct 24 13:01:15 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

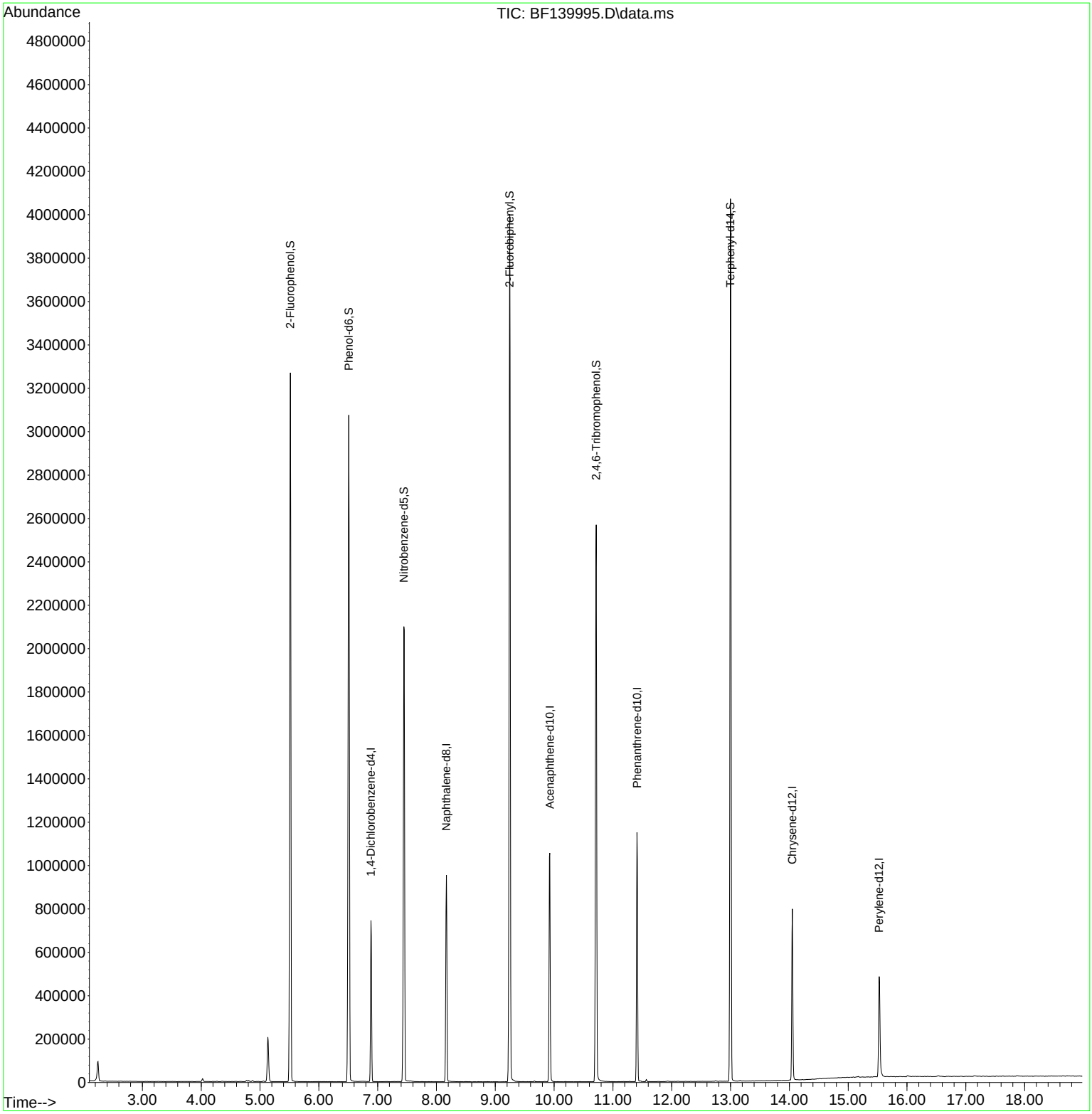
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	150783	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	595039	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	333938	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	606007	20.000	ng	0.00
76) Chrysene-d12	14.051	240	376899	20.000	ng	0.00
86) Perylene-d12	15.527	264	307486	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1294401	134.390	ng	0.02
7) Phenol-d6	6.510	99	1614427	129.417	ng	0.00
23) Nitrobenzene-d5	7.445	82	1056450	98.401	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	504219	161.425	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1915478	94.799	ng	0.00
79) Terphenyl-d14	12.998	244	2161585	93.454	ng	0.00
Target Compounds						Qvalue

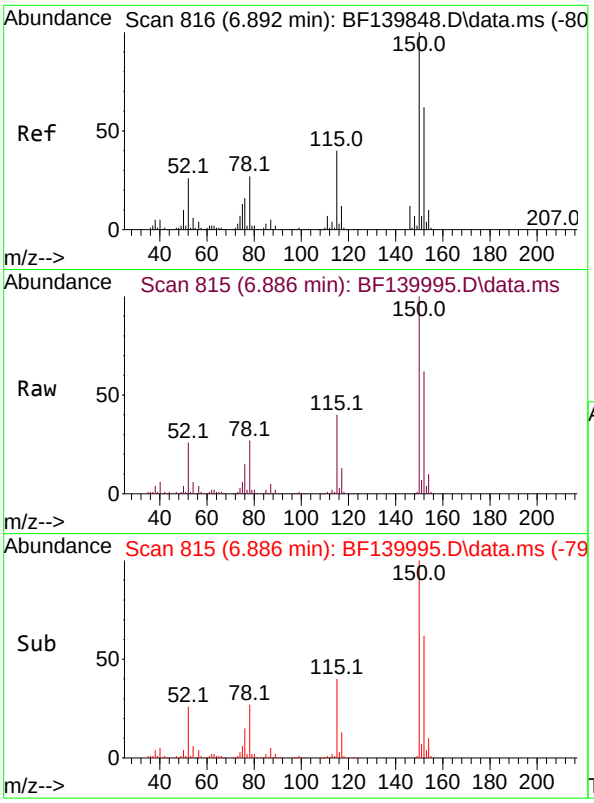
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139995.D
Acq On : 24 Oct 2024 12:17
Operator : RC/JU
Sample : PB164301TB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164301TB

Quant Time: Oct 24 13:01:15 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



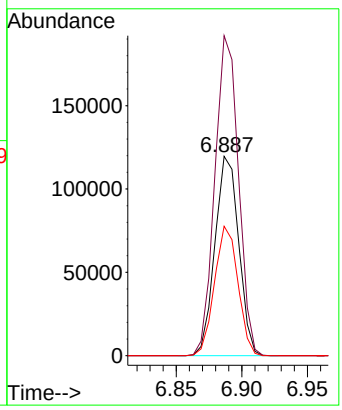


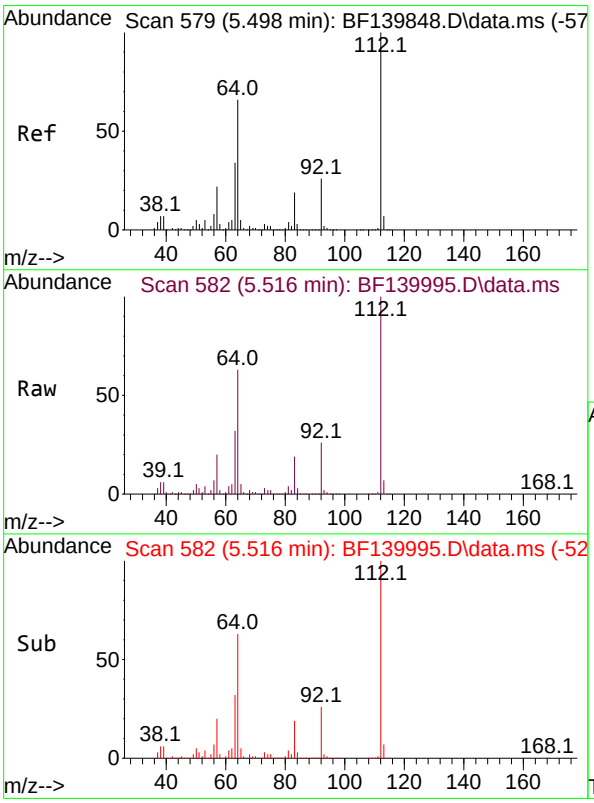
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Instrument :
BNA_F
ClientSampleId :
PB164301TB

Tgt Ion:152 Resp: 150783

Ion	Ratio	Lower	Upper
152	100		
150	160.5	130.2	195.2
115	64.9	51.4	77.2

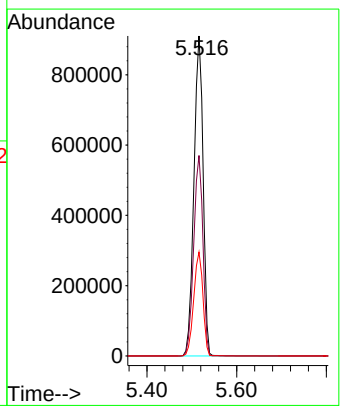


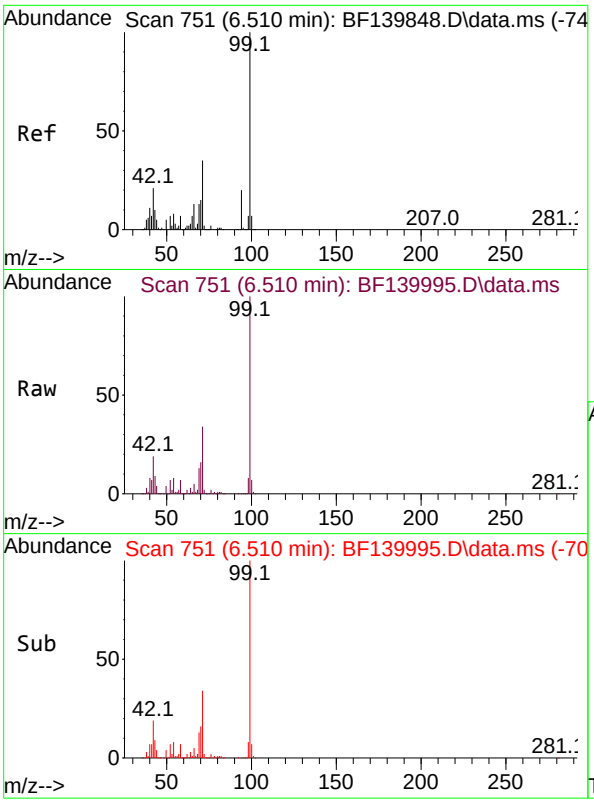


#5
2-Fluorophenol
Concen: 134.390 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Tgt Ion:112 Resp: 1294401

Ion	Ratio	Lower	Upper
112	100		
64	62.7	53.0	79.6
63	32.5	27.0	40.4



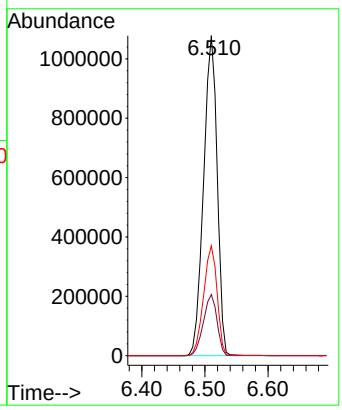


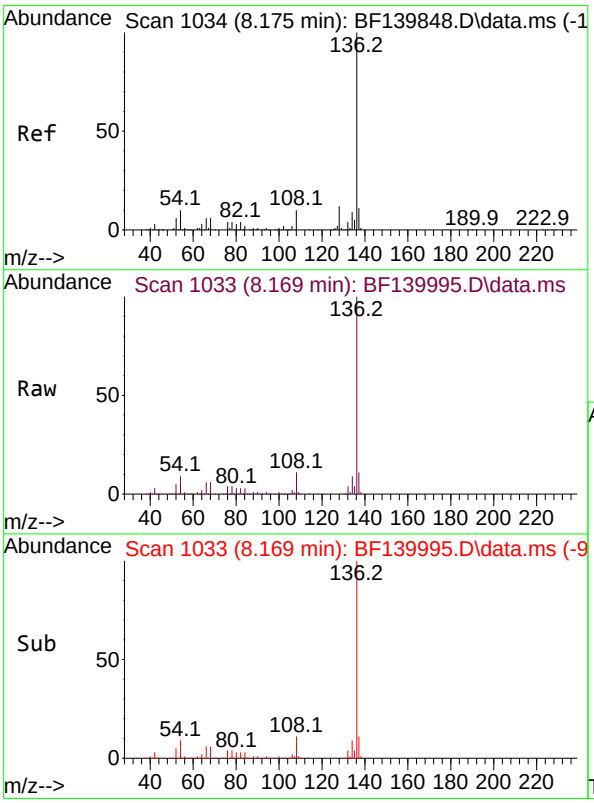
#7
Phenol-d6
Concen: 129.417 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Instrument :
BNA_F
ClientSampleId :
PB164301TB

Tgt Ion: 99 Resp: 1614427

Ion	Ratio	Lower	Upper
99	100		
42	19.1	16.7	25.1
71	34.4	27.7	41.5

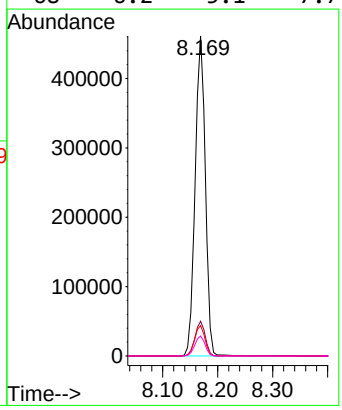


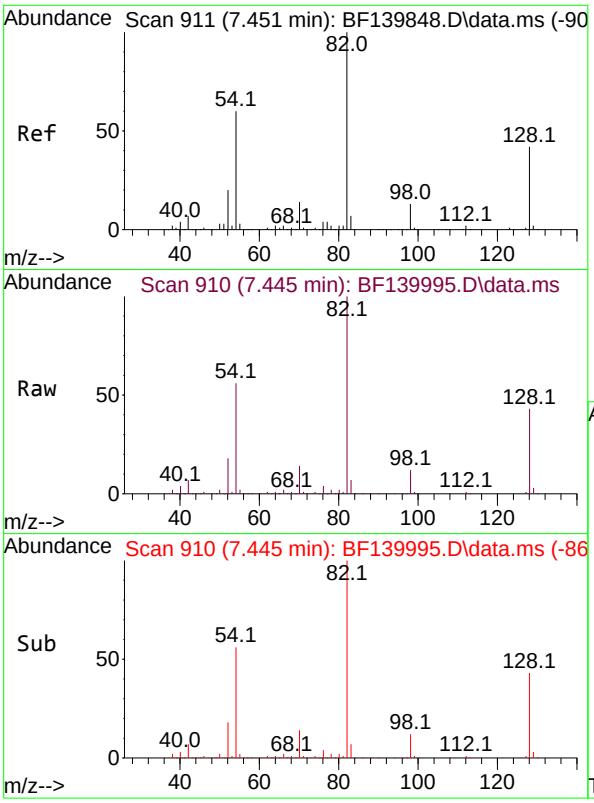


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Tgt Ion:136 Resp: 595039

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.5	8.4	12.6
68	6.2	5.1	7.7



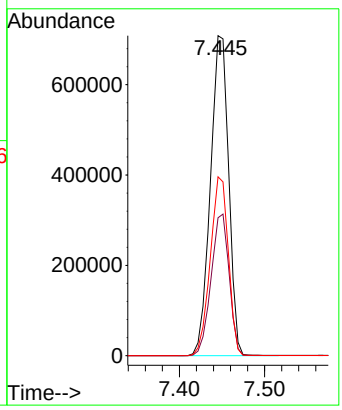


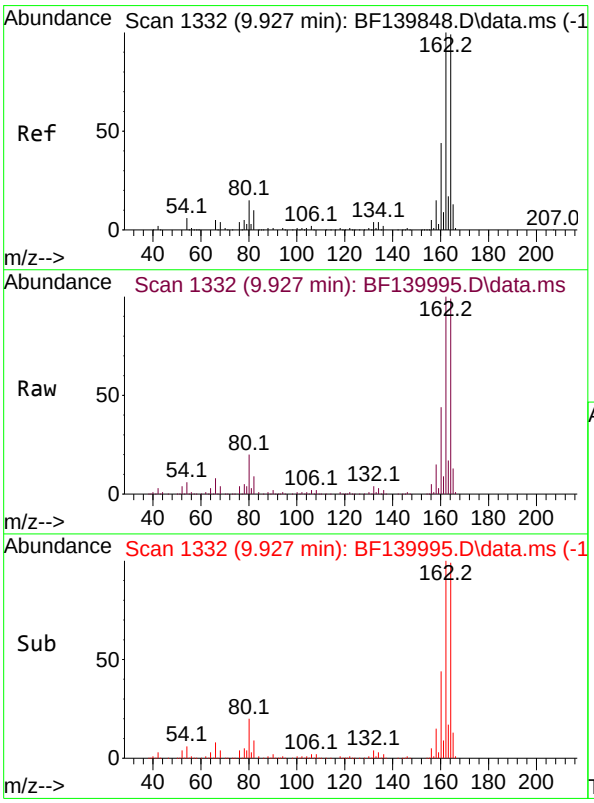
#23
Nitrobenzene-d5
Concen: 98.401 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Instrument :
BNA_F
ClientSampleId :
PB164301TB

Tgt Ion: 82 Resp: 1056450

Ion	Ratio	Lower	Upper
82	100		
128	43.1	33.4	50.0
54	55.9	47.8	71.8

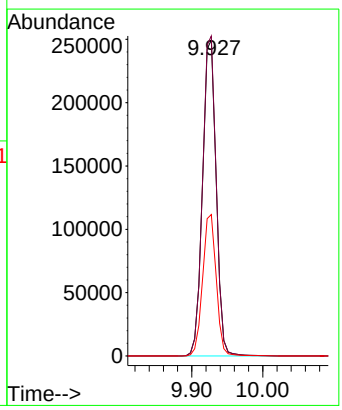


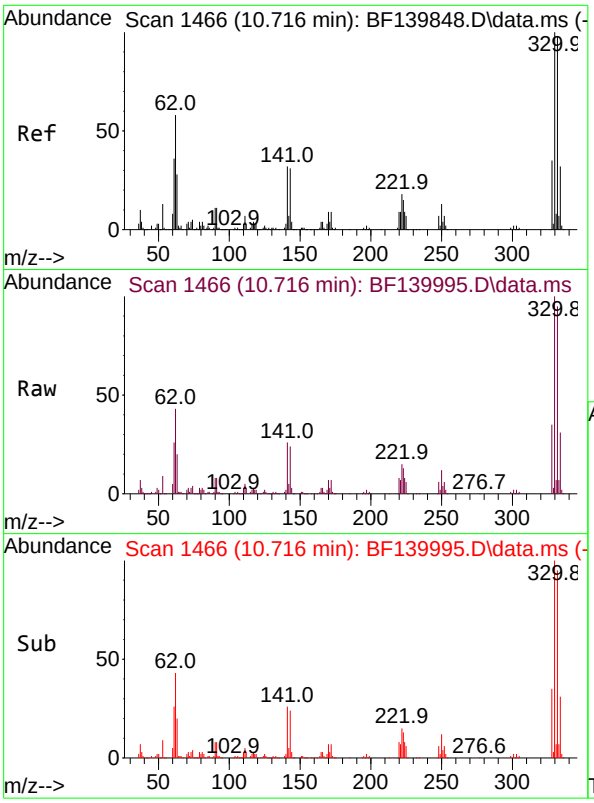


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1332
Delta R.T. 0.000 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Tgt Ion:164 Resp: 333938

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.0	121.4
160	44.8	35.4	53.0



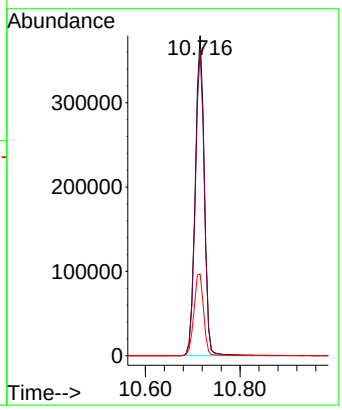


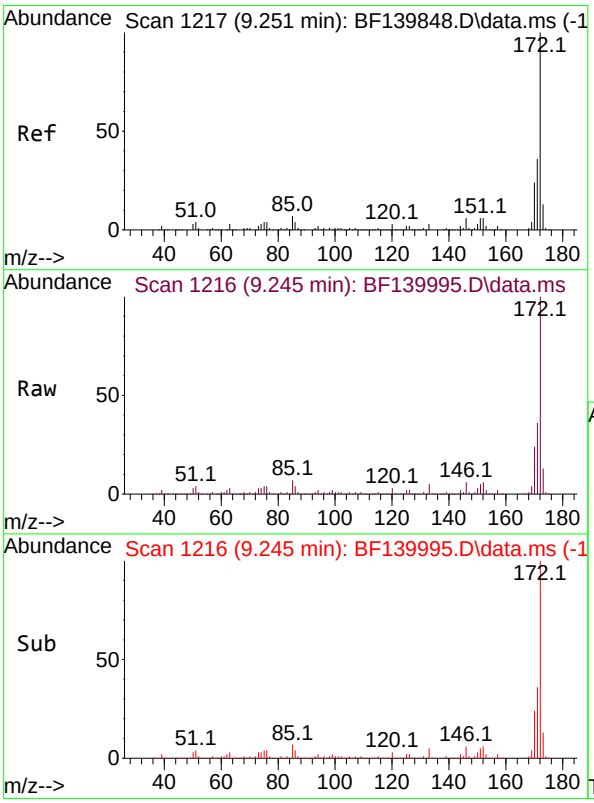
#42
2,4,6-Tribromophenol
Concen: 161.425 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Instrument :
BNA_F
ClientSampleId :
PB164301TB

Tgt Ion:330 Resp: 504219

Ion	Ratio	Lower	Upper
330	100		
332	95.6	78.1	117.1
141	27.3	26.6	39.8

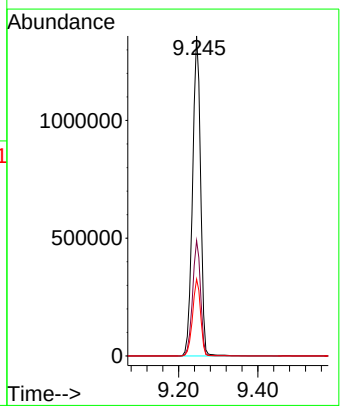


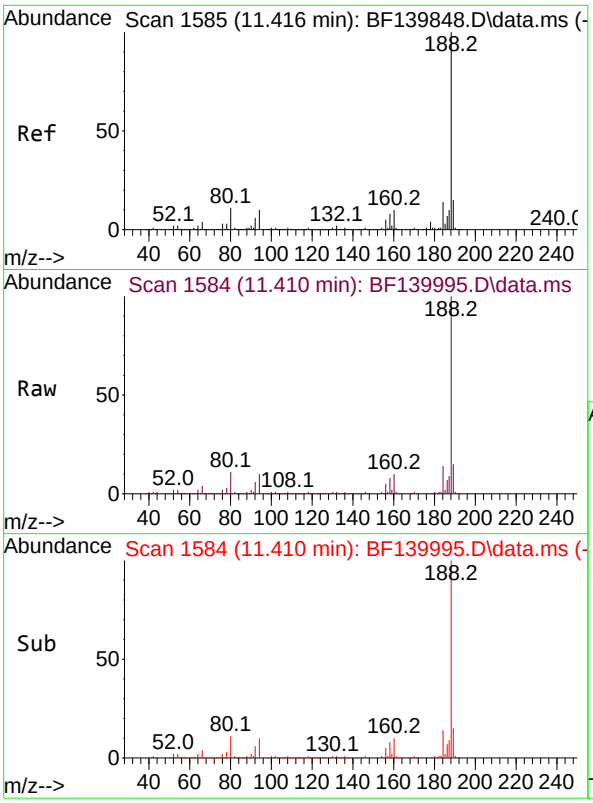


#45
2-Fluorobiphenyl
Concen: 94.799 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Tgt Ion:172 Resp: 1915478

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.6	43.0
170	24.0	19.1	28.7



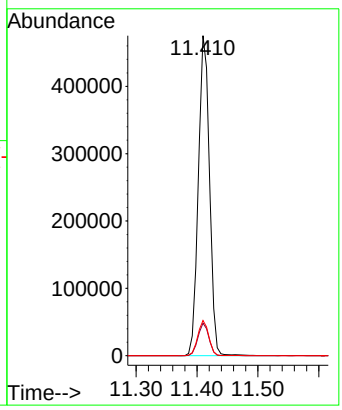


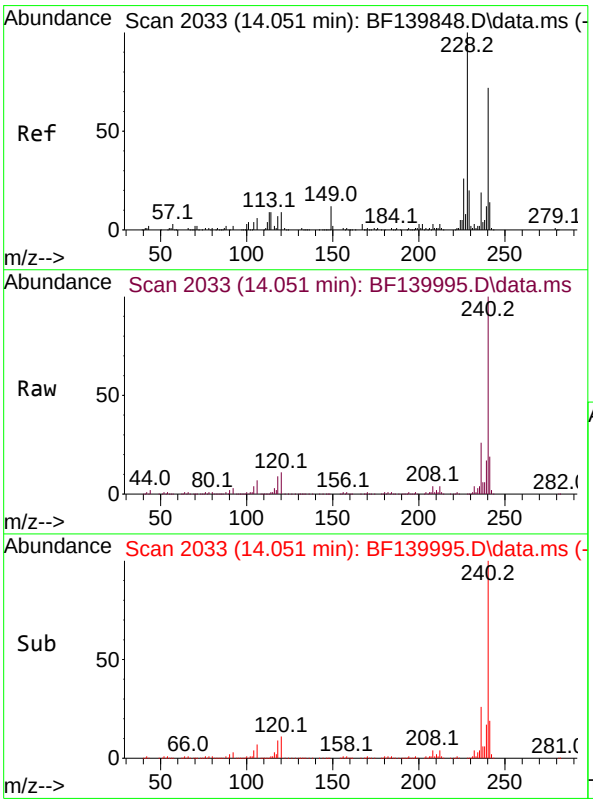
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Instrument :
BNA_F
ClientSampleId :
PB164301TB

Tgt Ion:188 Resp: 606007

Ion	Ratio	Lower	Upper
188	100		
94	10.2	7.9	11.9
80	11.0	9.0	13.4

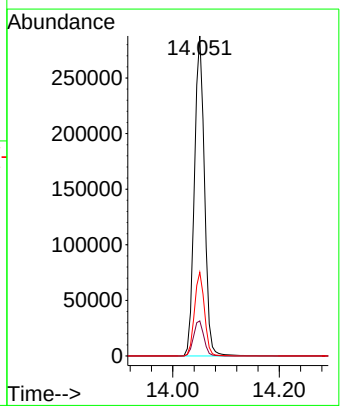


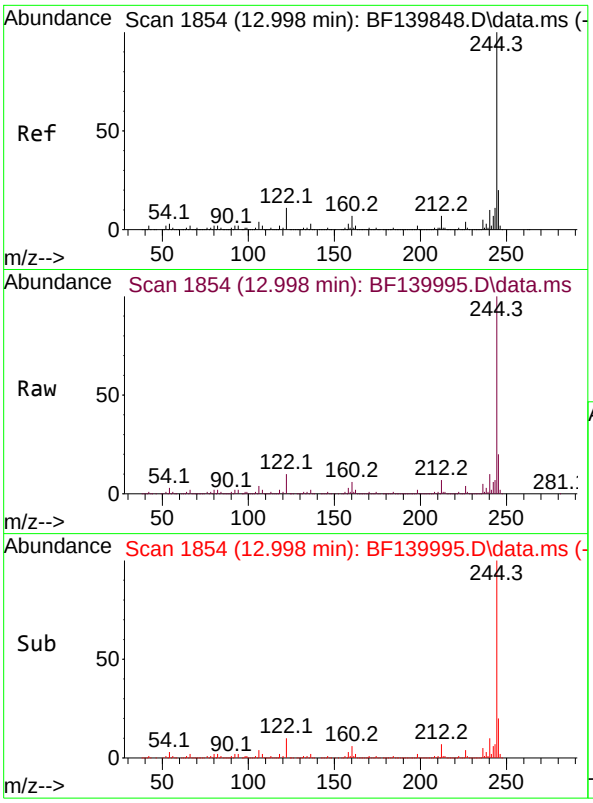


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Tgt Ion:240 Resp: 376899

Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.4	14.2
236	26.1	20.9	31.3



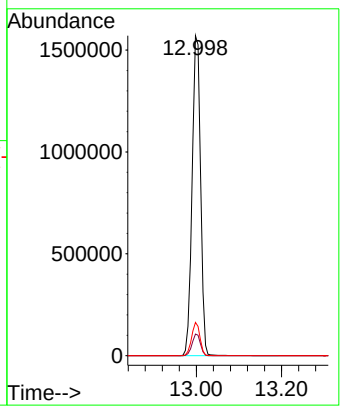


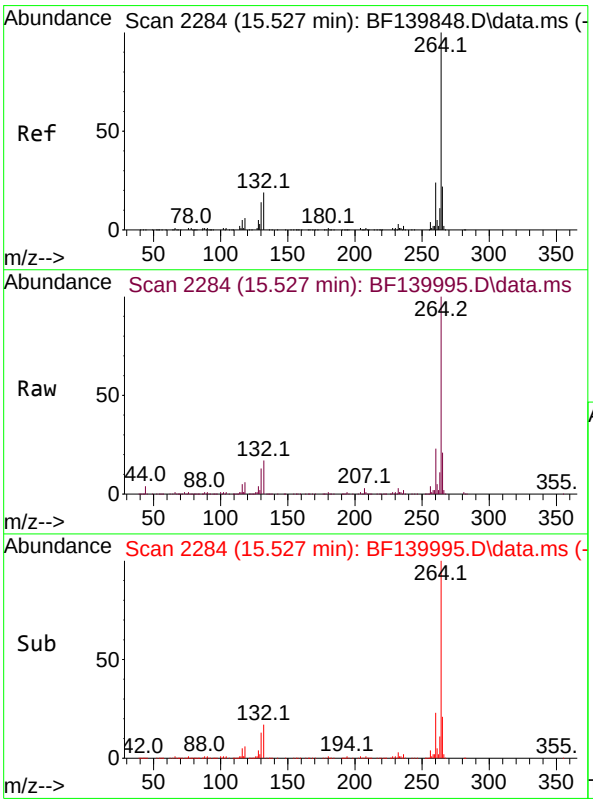
#79
Terphenyl-d14
Concen: 93.454 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Instrument :
BNA_F
ClientSampleId :
PB164301TB

Tgt Ion:244 Resp: 2161585

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.7	8.5
122	10.4	8.6	13.0

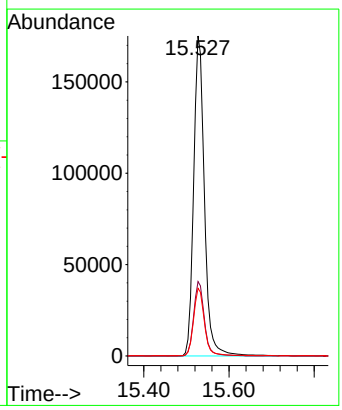




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139995.D
Acq: 24 Oct 2024 12:17

Tgt Ion:264 Resp: 307486

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.4	29.2
265	21.2	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139993.D
Acq On : 24 Oct 2024 11:20
Operator : RC/JU
Sample : PB164315BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164315BL

Quant Time: Oct 24 11:52:37 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

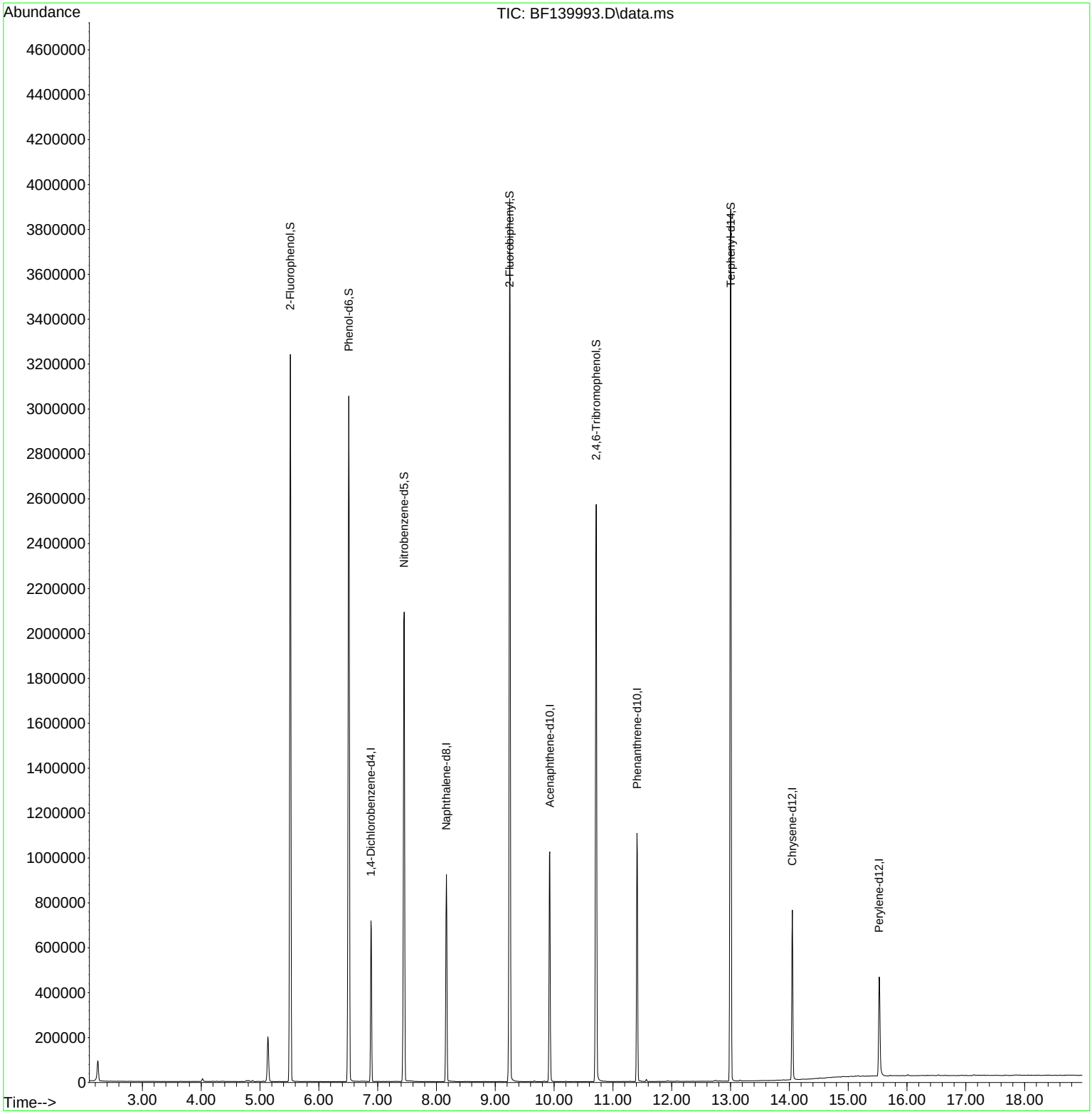
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	148560	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	574491	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	327603	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	592376	20.000	ng	0.00
76) Chrysene-d12	14.051	240	363554	20.000	ng	0.00
86) Perylene-d12	15.527	264	290384	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1274979	134.354	ng	0.02
7) Phenol-d6	6.510	99	1593884	129.682	ng	0.00
23) Nitrobenzene-d5	7.451	82	1033088	99.666	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	494475	161.367	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1880319	94.859	ng	0.00
79) Terphenyl-d14	13.004	244	2127175	95.342	ng	0.00
Target Compounds						Qvalue

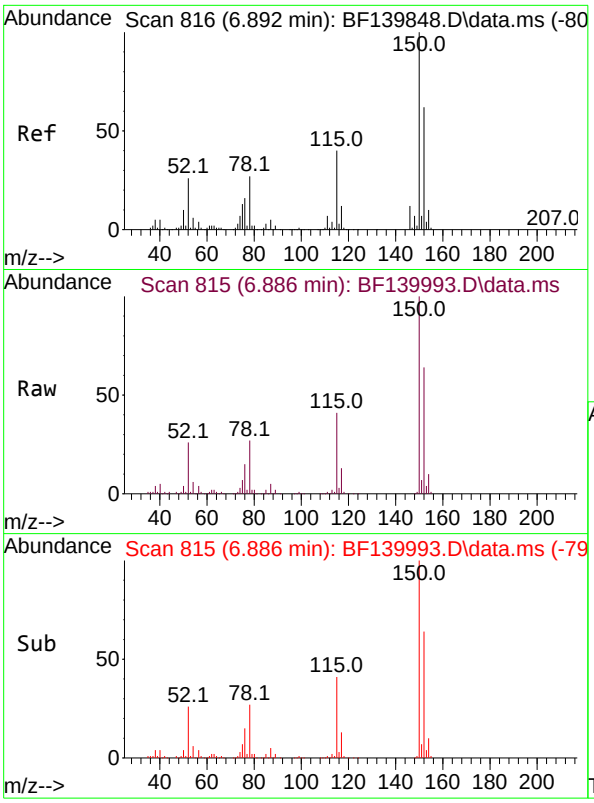
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139993.D
Acq On : 24 Oct 2024 11:20
Operator : RC/JU
Sample : PB164315BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164315BL

Quant Time: Oct 24 11:52:37 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



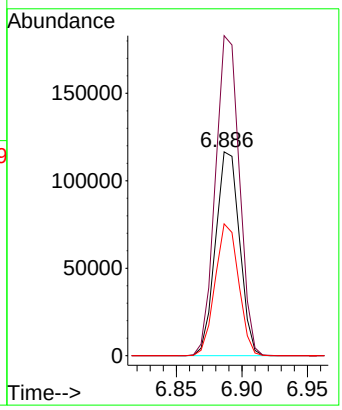


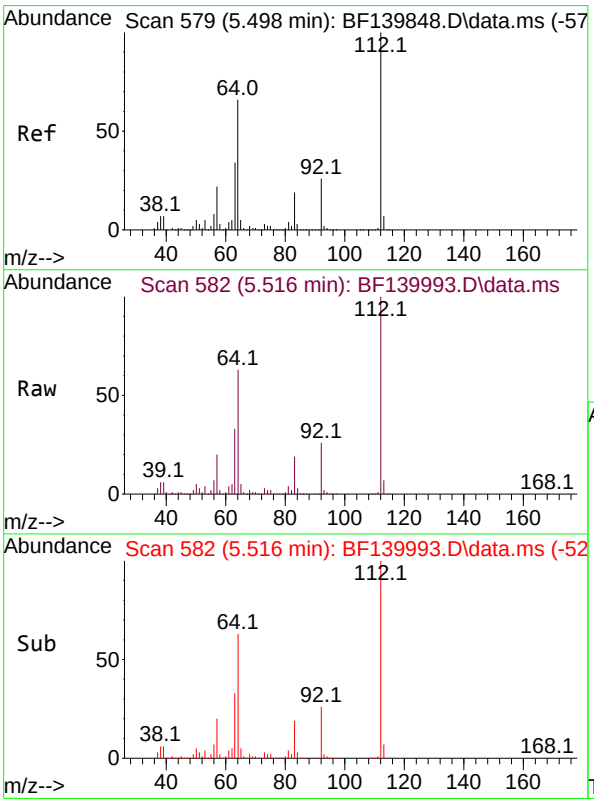
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Instrument :
BNA_F
ClientSampleId :
PB164315BL

Tgt Ion:152 Resp: 148560

Ion	Ratio	Lower	Upper
152	100		
150	156.9	130.2	195.2
115	64.6	51.4	77.2

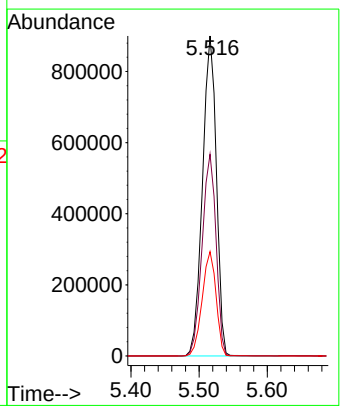


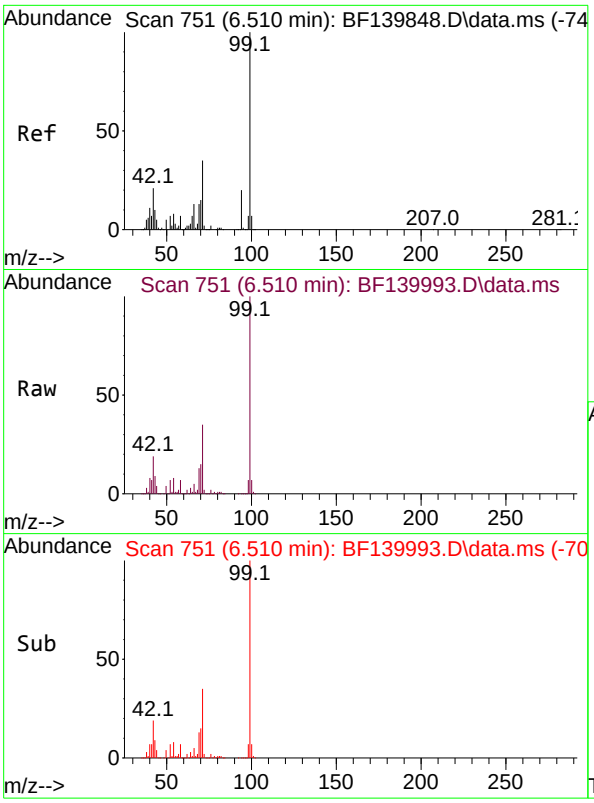


#5
2-Fluorophenol
Concen: 134.354 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Tgt Ion:112 Resp: 1274979

Ion	Ratio	Lower	Upper
112	100		
64	63.0	53.0	79.6
63	32.6	27.0	40.4



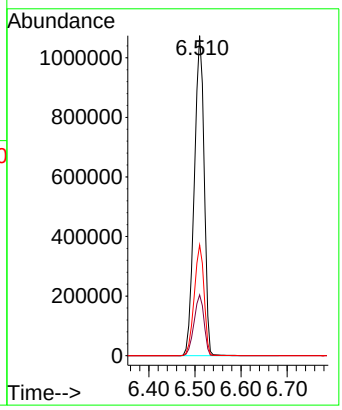


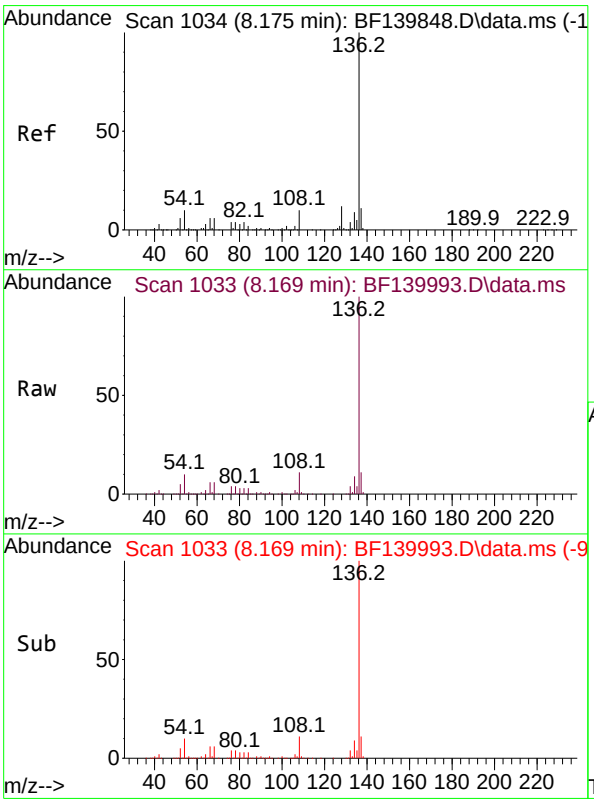
#7
Phenol-d6
Concen: 129.682 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Instrument :
BNA_F
ClientSampleId :
PB164315BL

Tgt Ion: 99 Resp: 1593884

Ion	Ratio	Lower	Upper
99	100		
42	19.0	16.7	25.1
71	34.6	27.7	41.5

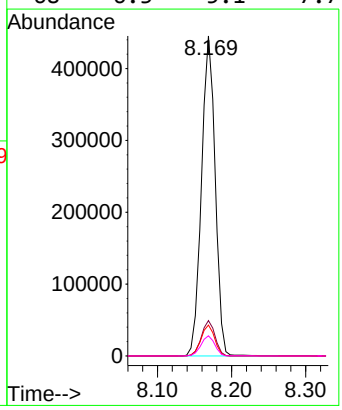


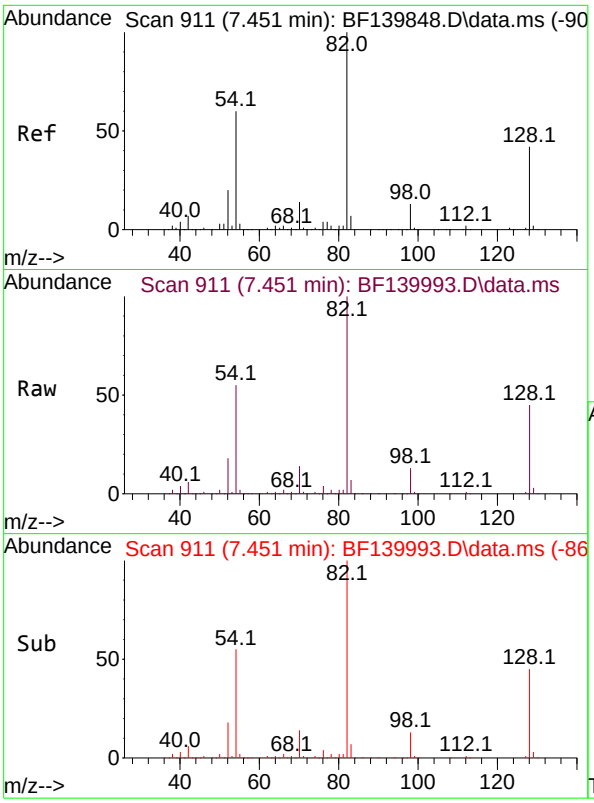


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Tgt Ion:136 Resp: 574491

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	12.8
54	9.7	8.4	12.6
68	6.3	5.1	7.7



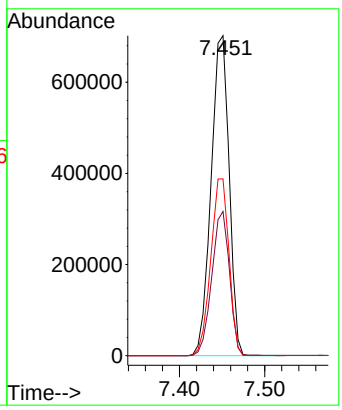


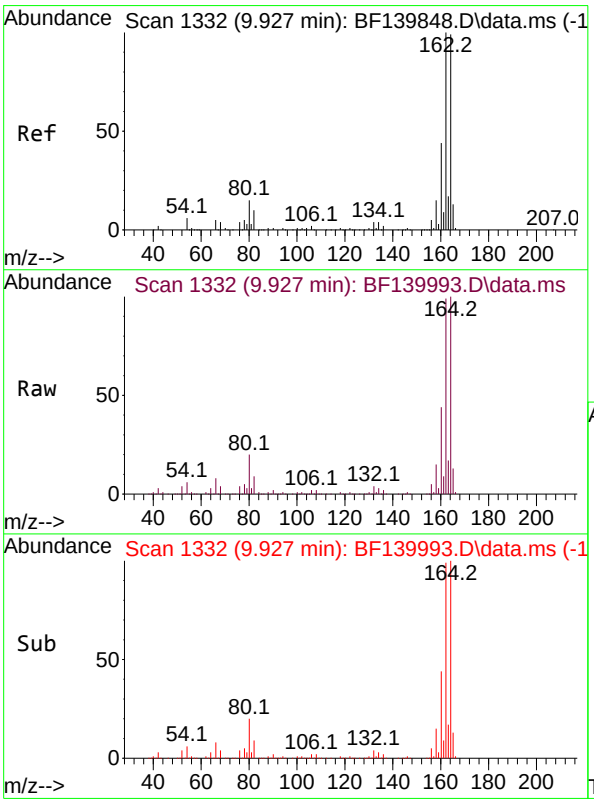
#23
Nitrobenzene-d5
Concen: 99.666 ng
RT: 7.451 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Instrument :
BNA_F
ClientSampleId :
PB164315BL

Tgt Ion: 82 Resp: 1033088

Ion	Ratio	Lower	Upper
82	100		
128	45.0	33.4	50.0
54	55.3	47.8	71.8

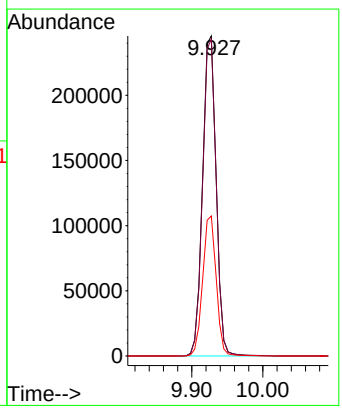


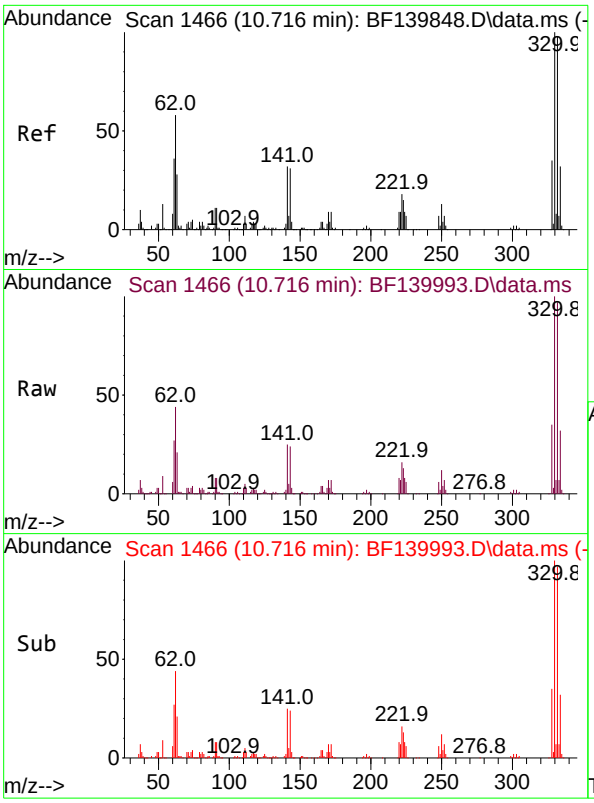


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1332
Delta R.T. 0.000 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Tgt Ion:164 Resp: 327603

Ion	Ratio	Lower	Upper
164	100		
162	99.0	81.0	121.4
160	43.7	35.4	53.0



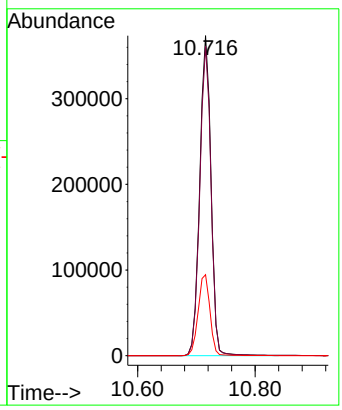


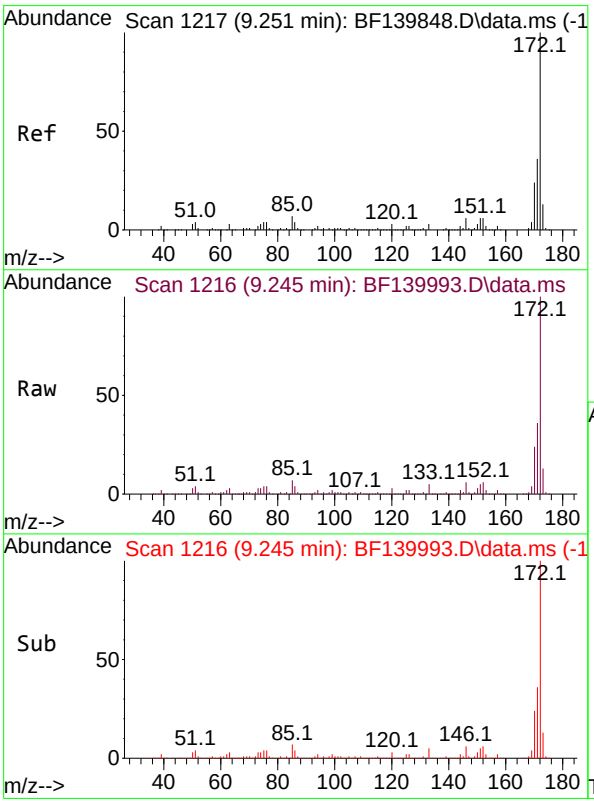
#42
2,4,6-Tribromophenol
Concen: 161.367 ng
RT: 10.716 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Instrument :
BNA_F
ClientSampleId :
PB164315BL

Tgt Ion:330 Resp: 494475

Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.1	117.1
141	26.7	26.6	39.8

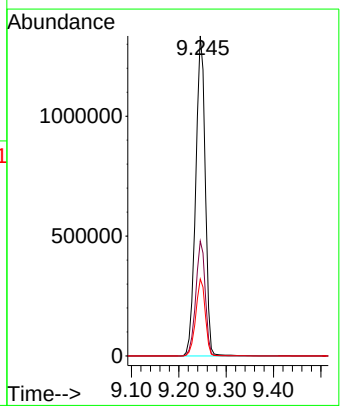


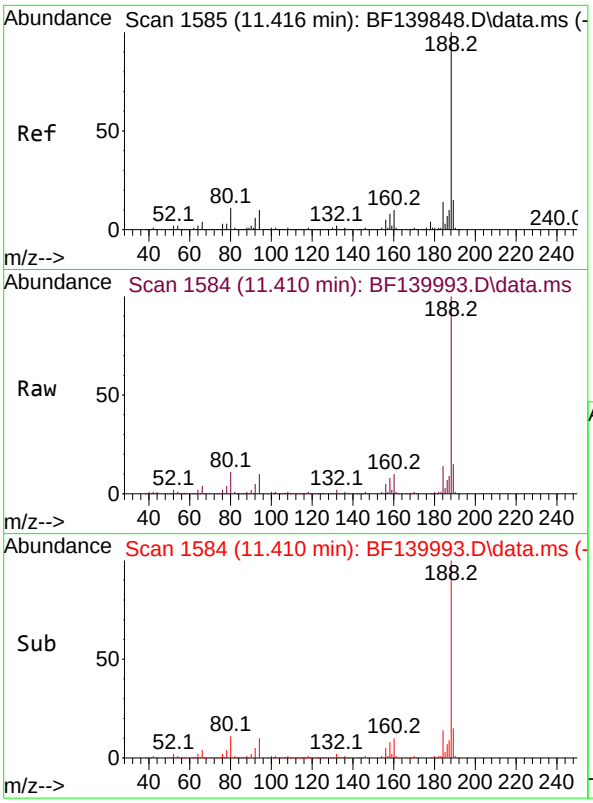


#45
2-Fluorobiphenyl
Concen: 94.859 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Tgt Ion:172 Resp: 1880319

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.0	19.1	28.7



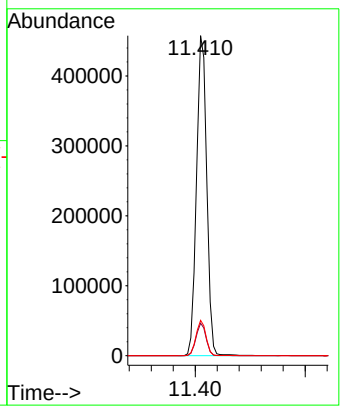


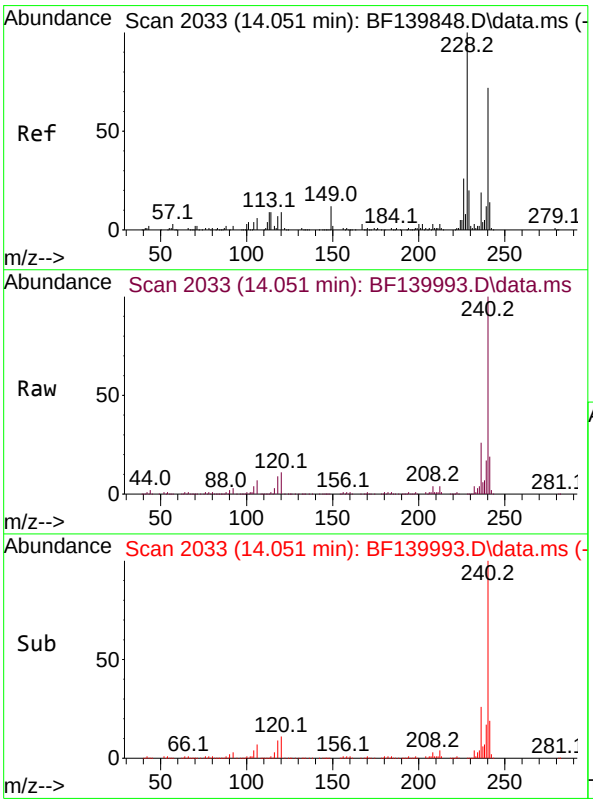
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Instrument :
BNA_F
ClientSampleId :
PB164315BL

Tgt Ion:188 Resp: 592376

Ion	Ratio	Lower	Upper
188	100		
94	10.2	7.9	11.9
80	11.0	9.0	13.4

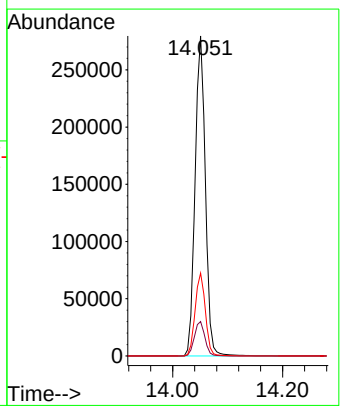


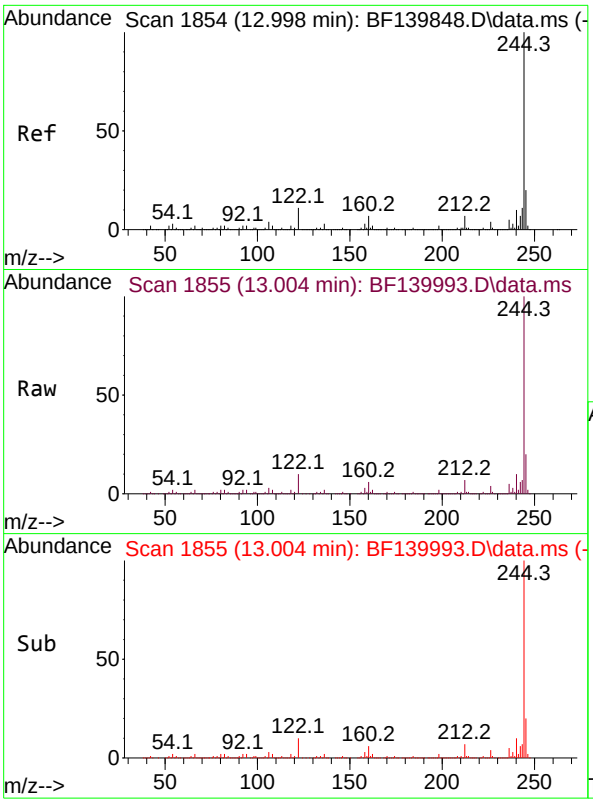


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Tgt Ion:240 Resp: 363554

Ion	Ratio	Lower	Upper
240	100		
120	10.7	9.4	14.2
236	25.9	20.9	31.3



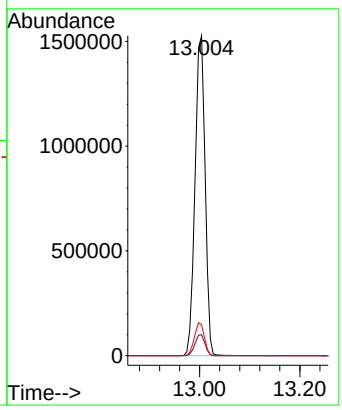


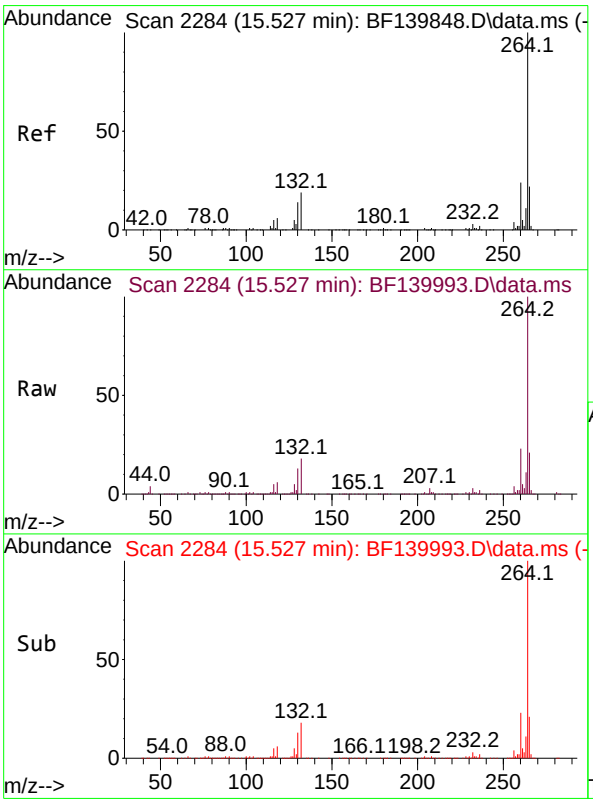
#79
Terphenyl-d14
Concen: 95.342 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Instrument :
BNA_F
ClientSampleId :
PB164315BL

Tgt Ion:244 Resp: 2127175

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	9.7	8.6	13.0

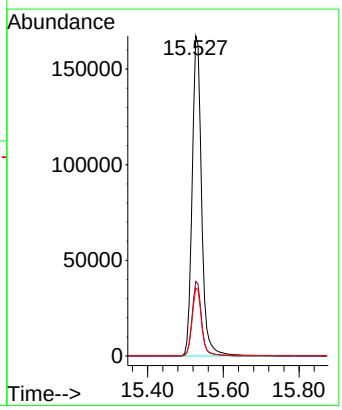




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. -0.000 min
Lab File: BF139993.D
Acq: 24 Oct 2024 11:20

Tgt Ion:264 Resp: 290384

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\BF102424\
Data File : BF139994.D
Acq On : 24 Oct 2024 11:49
Operator : RC/JU
Sample : PB164315BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164315BS

Quant Time: Oct 24 12:21:18 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	6.892	152	143702	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	566601	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	302186	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	535948	20.000	ng	0.00
76) Chrysene-d12	14.051	240	260625	20.000	ng	0.00
86) Perylene-d12	15.527	264	282742	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1160292	126.402	ng	0.02
7) Phenol-d6	6.516	99	1462769	123.038	ng	0.00
23) Nitrobenzene-d5	7.451	82	954892	93.405	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	446749	158.054	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	1707500	93.386	ng	0.00
79) Terphenyl-d14	12.998	244	1703690	106.518	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.757	88	154698	36.146	ng	95
3) Pyridine	3.516	79	411484	38.788	ng	95
4) n-Nitrosodimethylamine	3.463	42	234738	41.185	ng	96
6) Aniline	6.551	93	439543	39.670	ng	99
8) 2-Chlorophenol	6.675	128	450392	47.995	ng	96
9) Benzaldehyde	6.440	77	107591	16.087	ng	98
10) Phenol	6.528	94	549026m	44.794	ng	
11) bis(2-Chloroethyl)ether	6.628	93	430120	45.402	ng	97
12) 1,3-Dichlorobenzene	6.834	146	476596	44.243	ng	99
13) 1,4-Dichlorobenzene	6.910	146	487421	45.290	ng	98
14) 1,2-Dichlorobenzene	7.063	146	465007	46.296	ng	99
15) Benzyl Alcohol	7.028	79	404111	46.338	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.163	45	708497	43.860	ng	97
17) 2-Methylphenol	7.140	107	372824	46.592	ng	99
18) Hexachloroethane	7.404	117	174507	45.471	ng	96
19) n-Nitroso-di-n-propyla...	7.304	70	324409	44.991	ng	95
20) 3+4-Methylphenols	7.287	107	452339	44.196	ng	94
22) Acetophenone	7.298	105	606884	43.730	ng	98
24) Nitrobenzene	7.469	77	489244	43.649	ng	100
25) Isophorone	7.710	82	884582	45.589	ng	99
26) 2-Nitrophenol	7.787	139	236831	56.009	ng	95
27) 2,4-Dimethylphenol	7.816	122	371793	52.731	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	532172	45.268	ng	100
29) 2,4-Dichlorophenol	8.022	162	370712	46.160	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	393537	44.285	ng	99
31) Naphthalene	8.192	128	1298729	44.444	ng	100
32) Benzoic acid	7.934	122	295362	48.029	ng	94
33) 4-Chloroaniline	8.239	127	191995	19.268	ng	98
34) Hexachlorobutadiene	8.310	225	252882	45.291	ng	100
35) Caprolactam	8.610	113	120736m	47.281	ng	
36) 4-Chloro-3-methylphenol	8.716	107	403239	45.345	ng	97
37) 2-Methylnaphthalene	8.886	142	823280	46.002	ng	99
38) 1-Methylnaphthalene	8.986	142	760399	43.306	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	388519	47.656	ng	99
41) Hexachlorocyclopentadiene	9.039	237	514537	181.387	ng	99
43) 2,4,6-Trichlorophenol	9.163	196	293862	50.913	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139994.D
Acq On : 24 Oct 2024 11:49
Operator : RC/JU
Sample : PB164315BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164315BS

Quant Time: Oct 24 12:21:18 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

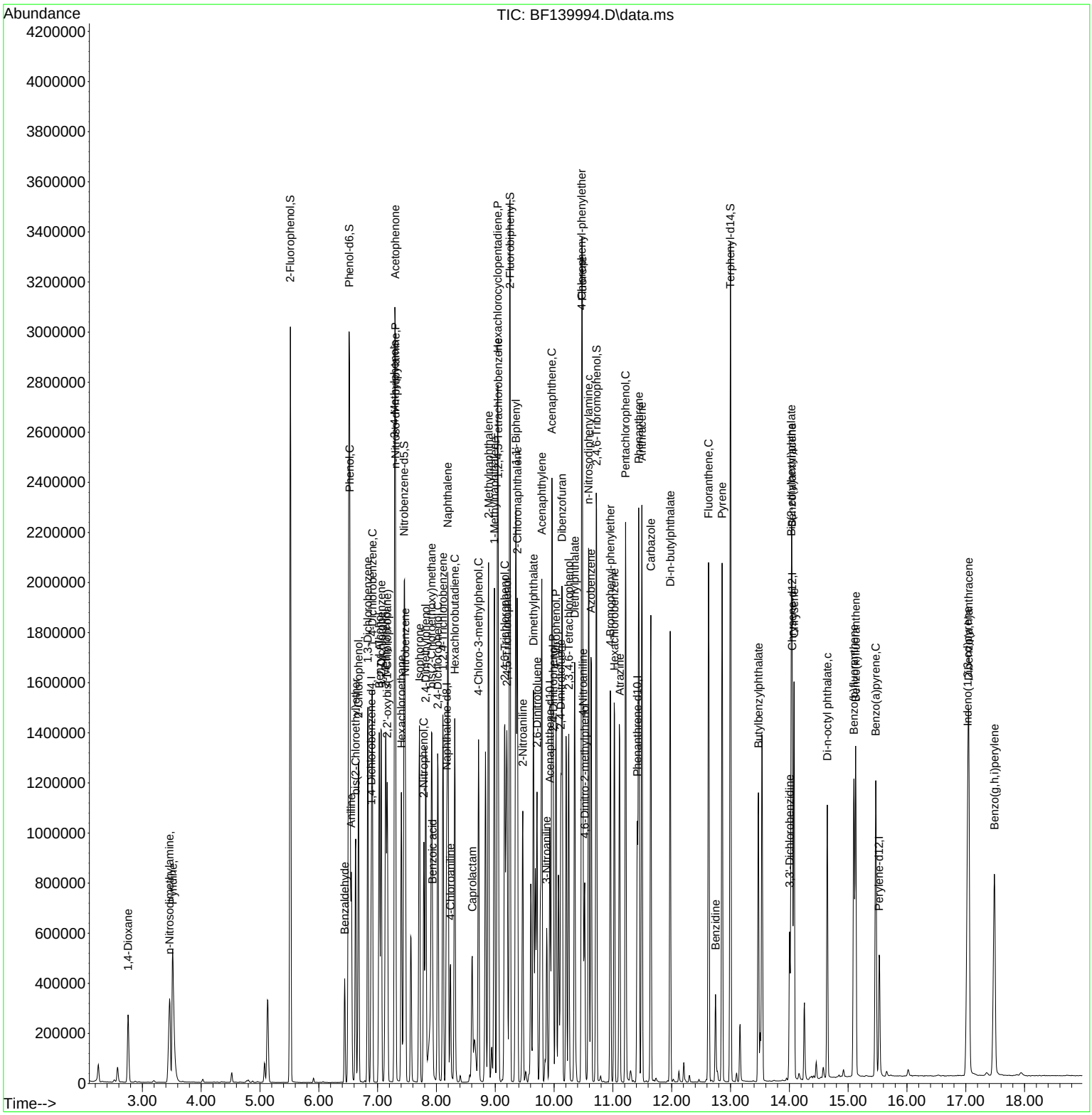
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	295995	49.705	ng		99
46) 1,1'-Biphenyl	9.351	154	990678	47.093	ng		99
47) 2-Chloronaphthalene	9.375	162	789590	46.602	ng		99
48) 2-Nitroaniline	9.469	65	269390	51.986	ng		93
49) Acenaphthylene	9.792	152	1234528	50.400	ng		99
50) Dimethylphthalate	9.651	163	921453	48.955	ng		100
51) 2,6-Dinitrotoluene	9.710	165	205171	50.343	ng		95
52) Acenaphthene	9.963	154	863112	54.470	ng		99
53) 3-Nitroaniline	9.875	138	125115	29.770	ng		97
54) 2,4-Dinitrophenol	9.986	184	224090	128.071	ng	#	1
55) Dibenzofuran	10.133	168	1095379	48.181	ng		99
56) 4-Nitrophenol	10.033	139	342409	105.897	ng		96
57) 2,4-Dinitrotoluene	10.116	165	274243	54.720	ng		96
58) Fluorene	10.480	166	821779	47.458	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	246416	52.785	ng		96
60) Diethylphthalate	10.351	149	883265	47.793	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	419283	47.948	ng		98
62) 4-Nitroaniline	10.492	138	195741	49.313	ng		95
63) Azobenzene	10.628	77	905569	46.220	ng		98
65) 4,6-Dinitro-2-methylph...	10.522	198	150164	68.690	ng		90
66) n-Nitrosodiphenylamine	10.586	169	771009	48.066	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	274971	49.802	ng		97
68) Hexachlorobenzene	11.028	284	308047	49.608	ng		94
69) Atrazine	11.116	200	249571	57.436	ng		99
70) Pentachlorophenol	11.216	266	373703	99.161	ng		99
71) Phenanthrene	11.439	178	1205859	47.632	ng		100
72) Anthracene	11.492	178	1233007	49.919	ng		100
73) Carbazole	11.645	167	1052474	45.816	ng		99
74) Di-n-butylphthalate	11.975	149	1249126	47.065	ng		100
75) Fluoranthene	12.627	202	1184700	46.291	ng		100
77) Benzidine	12.745	184	199428	46.535	ng		99
78) Pyrene	12.857	202	1178350	51.652	ng		100
80) Butylbenzylphthalate	13.474	149	366950	53.652	ng		98
81) Benzo(a)anthracene	14.045	228	854961	50.393	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	178968	36.180	ng		98
83) Chrysene	14.080	228	755642	48.577	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	411236	53.591	ng		99
85) Di-n-octyl phthalate	14.645	149	701121	50.233	ng		96
87) Indeno(1,2,3-cd)pyrene	17.033	276	1030056	56.629	ng		98
88) Benzo(b)fluoranthene	15.098	252	745894	43.307	ng		99
89) Benzo(k)fluoranthene	15.127	252	765437	51.531	ng		99
90) Benzo(a)pyrene	15.468	252	745619	52.612	ng		100
91) Dibenzo(a,h)anthracene	17.051	278	843072	55.560	ng		99
92) Benzo(g,h,i)perylene	17.486	276	798685	52.694	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139994.D
Acq On : 24 Oct 2024 11:49
Operator : RC/JU
Sample : PB164315BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164315BS

Quant Time: Oct 24 12:21:18 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



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139970.D
Acq On : 23 Oct 2024 17:59
Operator : RC/JU
Sample : P4397-06MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 24 01:10:33 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-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.893	152	145719	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	539980	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	259652	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	394534	20.000	ng		0.00
76) Chrysene-d12	14.057	240	319585	20.000	ng		0.00
86) Perylene-d12	15.533	264	328571	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.528	112	1184189	127.220	ng		0.03
7) Phenol-d6	6.516	99	1422654	118.007	ng		0.00
23) Nitrobenzene-d5	7.451	82	970341	99.596	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	341029	140.416	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1601722	101.950	ng		0.00
79) Terphenyl-d14	12.998	244	1549414	79.001	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.881	88	165499	38.134	ng	#	79
3) Pyridine	3.587	79	281056	26.127	ng		96
4) n-Nitrosodimethylamine	3.516	42	229291	39.672	ng		97
6) Aniline	6.557	93	163876	14.585	ng		97
8) 2-Chlorophenol	6.675	128	431885	45.386	ng		99
9) Benzaldehyde	6.446	77	27124	3.999	ng		92
10) Phenol	6.534	94	504851m	40.620	ng		
11) bis(2-Chloroethyl)ether	6.628	93	429093	44.667	ng		99
12) 1,3-Dichlorobenzene	6.834	146	446954	40.917	ng		99
13) 1,4-Dichlorobenzene	6.910	146	452366	41.451	ng		98
14) 1,2-Dichlorobenzene	7.063	146	437203	42.925	ng		98
15) Benzyl Alcohol	7.028	79	394187	44.575	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	692518	42.277	ng		97
17) 2-Methylphenol	7.140	107	362384	44.661	ng		99
18) Hexachloroethane	7.404	117	156969	40.335	ng		97
19) n-Nitroso-di-n-propyla...	7.304	70	318826	43.605	ng		96
20) 3+4-Methylphenols	7.293	107	447860	43.152	ng	#	81
22) Acetophenone	7.298	105	589821	44.596	ng		99
24) Nitrobenzene	7.475	77	464539	43.488	ng		98
25) Isophorone	7.710	82	850487	45.993	ng		99
26) 2-Nitrophenol	7.787	139	219714	54.522	ng		95
27) 2,4-Dimethylphenol	7.822	122	363608	54.112	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	511077	45.617	ng		100
29) 2,4-Dichlorophenol	8.028	162	351914	45.980	ng		98
30) 1,2,4-Trichlorobenzene	8.110	180	365443	43.151	ng		99
31) Naphthalene	8.193	128	1433262	51.466	ng		100
32) Benzoic acid	7.922	122	252244	43.040	ng		97
33) 4-Chloroaniline	8.240	127	56215	5.920	ng		98
34) Hexachlorobutadiene	8.310	225	231750	43.553	ng		99
35) Caprolactam	8.598	113	95747	39.344	ng		94
36) 4-Chloro-3-methylphenol	8.716	107	367844	43.404	ng		96
37) 2-Methylnaphthalene	8.887	142	831760	48.767	ng		99
38) 1-Methylnaphthalene	8.987	142	773515	46.225	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	358813	51.222	ng		99
41) Hexachlorocyclopentadiene	9.040	237	201420	82.637	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	259089	52.241	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139970.D
Acq On : 23 Oct 2024 17:59
Operator : RC/JU
Sample : P4397-06MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 24 01:10:33 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-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	252046	49.258	ng		97
46) 1,1'-Biphenyl	9.351	154	904792	50.056	ng		99
47) 2-Chloronaphthalene	9.375	162	704968	48.424	ng		99
48) 2-Nitroaniline	9.463	65	234065	52.569	ng		96
49) Acenaphthylene	9.792	152	1069289	50.805	ng		100
50) Dimethylphthalate	9.645	163	840924	51.995	ng		100
51) 2,6-Dinitrotoluene	9.710	165	178345	50.929	ng		92
52) Acenaphthene	9.963	154	752606	55.277	ng		100
53) 3-Nitroaniline	9.875	138	71967	19.929	ng		94
54) 2,4-Dinitrophenol	9.981	184	127551	87.042	ng	#	1
55) Dibenzofuran	10.134	168	931769	47.698	ng		98
56) 4-Nitrophenol	10.028	139	248396	89.405	ng		97
57) 2,4-Dinitrotoluene	10.110	165	223785	51.967	ng		96
58) Fluorene	10.475	166	707194	47.531	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	195120	48.643	ng		95
60) Diethylphthalate	10.345	149	763940	48.108	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	352123	46.864	ng		99
62) 4-Nitroaniline	10.486	138	142265	41.712	ng		96
63) Azobenzene	10.628	77	737131	43.786	ng		97
65) 4,6-Dinitro-2-methylph...	10.516	198	90649	56.329	ng		93
66) n-Nitrosodiphenylamine	10.586	169	631286	53.461	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	216597	53.291	ng		96
68) Hexachlorobenzene	11.022	284	226101	49.463	ng		99
69) Atrazine	11.110	200	161884	50.609	ng		98
70) Pentachlorophenol	11.216	266	281614	101.510	ng		99
71) Phenanthrene	11.439	178	974942	52.315	ng		99
72) Anthracene	11.492	178	953433	52.435	ng		100
73) Carbazole	11.645	167	815066	48.199	ng		99
74) Di-n-butylphthalate	11.975	149	1050412	53.764	ng		99
75) Fluoranthene	12.628	202	985425	52.306	ng		99
77) Benzidine	12.745	184	196024	37.302	ng		99
78) Pyrene	12.857	202	1030796	36.848	ng		100
80) Butylbenzylphthalate	13.475	149	443486	52.879	ng		98
81) Benzo(a)anthracene	14.045	228	1045118	50.237	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	237087	39.086	ng		99
83) Chrysene	14.080	228	966611	50.675	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	614398	65.295	ng	#	99
85) Di-n-octyl phthalate	14.645	149	1119671	65.421	ng		97
87) Indeno(1,2,3-cd)pyrene	17.027	276	705835	33.392	ng		99
88) Benzo(b)fluoranthene	15.098	252	1120485	55.982	ng		99
89) Benzo(k)fluoranthene	15.127	252	912998	52.892	ng		100
90) Benzo(a)pyrene	15.469	252	899666	54.628	ng		100
91) Dibenzo(a,h)anthracene	17.045	278	598921	33.965	ng		98
92) Benzo(g,h,i)perylene	17.474	276	501683	28.483	ng		98

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

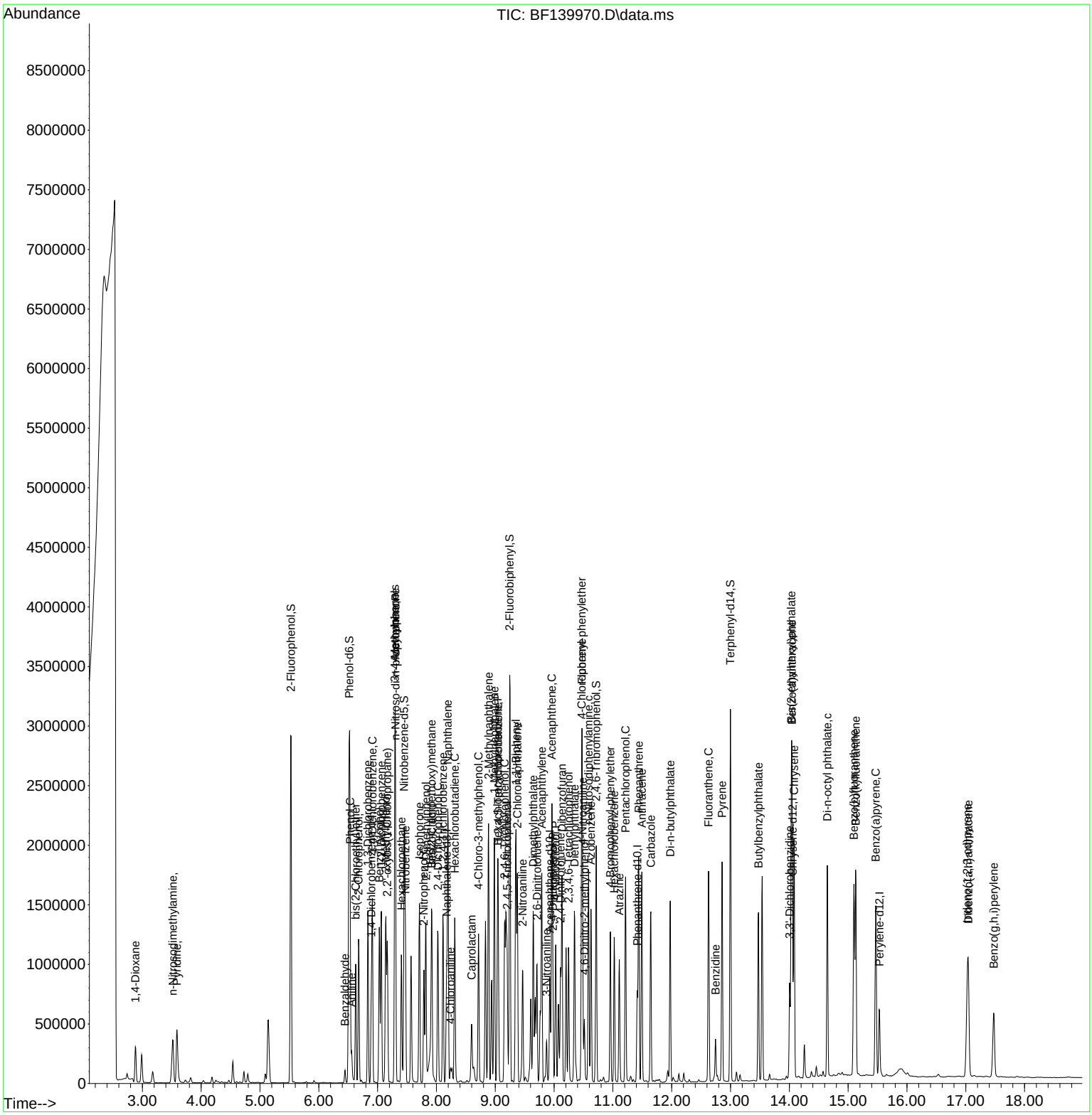
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139970.D
Acq On : 23 Oct 2024 17:59
Operator : RC/JU
Sample : P4397-06MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 24 01:10:33 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-301-BOTMS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139971.D
Acq On : 23 Oct 2024 18:28
Operator : RC/JU
Sample : P4397-06MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 24 01:10:59 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-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.893	152	137496	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	502859	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	242617	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	363131	20.000	ng		0.00
76) Chrysene-d12	14.057	240	305569	20.000	ng		0.00
86) Perylene-d12	15.533	264	311545	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.528	112	1225492	139.531	ng		0.03
7) Phenol-d6	6.516	99	1477382	129.876	ng		0.00
23) Nitrobenzene-d5	7.451	82	1009040	111.213	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	350375	154.393	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1650095	112.404	ng		0.00
79) Terphenyl-d14	12.998	244	1592275	84.910	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.899	88	170207	41.564	ng	#	80
3) Pyridine	3.599	79	310393	30.580	ng		95
4) n-Nitrosodimethylamine	3.528	42	236790	43.420	ng		95
6) Aniline	6.557	93	172832	16.302	ng		97
8) 2-Chlorophenol	6.675	128	451643	50.301	ng		99
9) Benzaldehyde	6.446	77	27050	4.227	ng		92
10) Phenol	6.534	94	520184m	44.356	ng		
11) bis(2-Chloroethyl)ether	6.628	93	437994	48.320	ng		99
12) 1,3-Dichlorobenzene	6.834	146	465766	45.190	ng		98
13) 1,4-Dichlorobenzene	6.910	146	466553	45.308	ng		99
14) 1,2-Dichlorobenzene	7.063	146	446998	46.512	ng		98
15) Benzyl Alcohol	7.028	79	408219	48.922	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	712316	46.086	ng		97
17) 2-Methylphenol	7.140	107	372657	48.674	ng		99
18) Hexachloroethane	7.404	117	163287	44.468	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	325882	47.235	ng		95
20) 3+4-Methylphenols	7.293	107	460612	47.035	ng	#	80
22) Acetophenone	7.298	105	607644	49.335	ng		99
24) Nitrobenzene	7.475	77	487597	49.017	ng		97
25) Isophorone	7.710	82	883102	51.282	ng		99
26) 2-Nitrophenol	7.787	139	221380	58.991	ng		97
27) 2,4-Dimethylphenol	7.816	122	376929	60.236	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	530666	50.862	ng		99
29) 2,4-Dichlorophenol	8.022	162	367175	51.515	ng		100
30) 1,2,4-Trichlorobenzene	8.110	180	375220	47.576	ng		99
31) Naphthalene	8.192	128	1475280	56.885	ng		100
32) Benzoic acid	7.922	122	258420	47.349	ng		97
33) 4-Chloroaniline	8.240	127	47003	5.315	ng		98
34) Hexachlorobutadiene	8.310	225	240622	48.558	ng		99
35) Caprolactam	8.598	113	97605	43.068	ng		94
36) 4-Chloro-3-methylphenol	8.716	107	379896	48.136	ng		97
37) 2-Methylnaphthalene	8.887	142	853619	53.743	ng		99
38) 1-Methylnaphthalene	8.987	142	797249	51.160	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	373726	57.097	ng		99
41) Hexachlorocyclopentadiene	9.039	237	214740	94.288	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	265846	57.367	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139971.D
Acq On : 23 Oct 2024 18:28
Operator : RC/JU
Sample : P4397-06MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 24 01:10:59 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-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	256132	53.572	ng		99
46) 1,1'-Biphenyl	9.351	154	943666	55.872	ng		100
47) 2-Chloronaphthalene	9.375	162	726392	53.399	ng		99
48) 2-Nitroaniline	9.463	65	238771	57.391	ng		95
49) Acenaphthylene	9.792	152	1082454	55.041	ng		100
50) Dimethylphthalate	9.645	163	864443	57.202	ng		100
51) 2,6-Dinitrotoluene	9.710	165	181141	55.360	ng		94
52) Acenaphthene	9.963	154	777728	61.133	ng		99
53) 3-Nitroaniline	9.875	138	60382	17.895	ng		98
54) 2,4-Dinitrophenol	9.981	184	133653	96.818	ng	#	1
55) Dibenzofuran	10.134	168	952626	52.190	ng		98
56) 4-Nitrophenol	10.028	139	253848	97.783	ng		96
57) 2,4-Dinitrotoluene	10.110	165	228275	56.731	ng		95
58) Fluorene	10.475	166	716351	51.527	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	195676	52.207	ng		96
60) Diethylphthalate	10.345	149	795465	53.610	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	360807	51.391	ng		98
62) 4-Nitroaniline	10.486	138	145450	45.640	ng		95
63) Azobenzene	10.628	77	743674	47.276	ng		97
65) 4,6-Dinitro-2-methylph...	10.516	198	94987	64.129	ng		91
66) n-Nitrosodiphenylamine	10.586	169	640036	58.890	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	218757	58.477	ng		97
68) Hexachlorobenzene	11.022	284	230847	54.868	ng		99
69) Atrazine	11.110	200	164318	55.813	ng		99
70) Pentachlorophenol	11.216	266	289137	113.234	ng		100
71) Phenanthrene	11.439	178	1006570	58.683	ng		99
72) Anthracene	11.492	178	966636	57.759	ng		100
73) Carbazole	11.639	167	834210	53.597	ng		99
74) Di-n-butylphthalate	11.975	149	1066617	59.315	ng		100
75) Fluoranthene	12.627	202	1023615	59.032	ng		100
77) Benzidine	12.745	184	154077	30.665	ng		99
78) Pyrene	12.857	202	1058288	39.566	ng		100
80) Butylbenzylphthalate	13.474	149	457311	57.029	ng		99
81) Benzo(a)anthracene	14.045	228	1075786	54.083	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	231729	39.955	ng		100
83) Chrysene	14.080	228	1005483	55.131	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	643508	71.526	ng		100
85) Di-n-octyl phthalate	14.645	149	1177689	71.968	ng		97
87) Indeno(1,2,3-cd)pyrene	17.027	276	729499	36.398	ng		99
88) Benzo(b)fluoranthene	15.098	252	1164759	61.374	ng		100
89) Benzo(k)fluoranthene	15.127	252	966378	59.044	ng		100
90) Benzo(a)pyrene	15.468	252	932048	59.687	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	614593	36.758	ng		99
92) Benzo(g,h,i)perylene	17.474	276	516991	30.956	ng		99

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

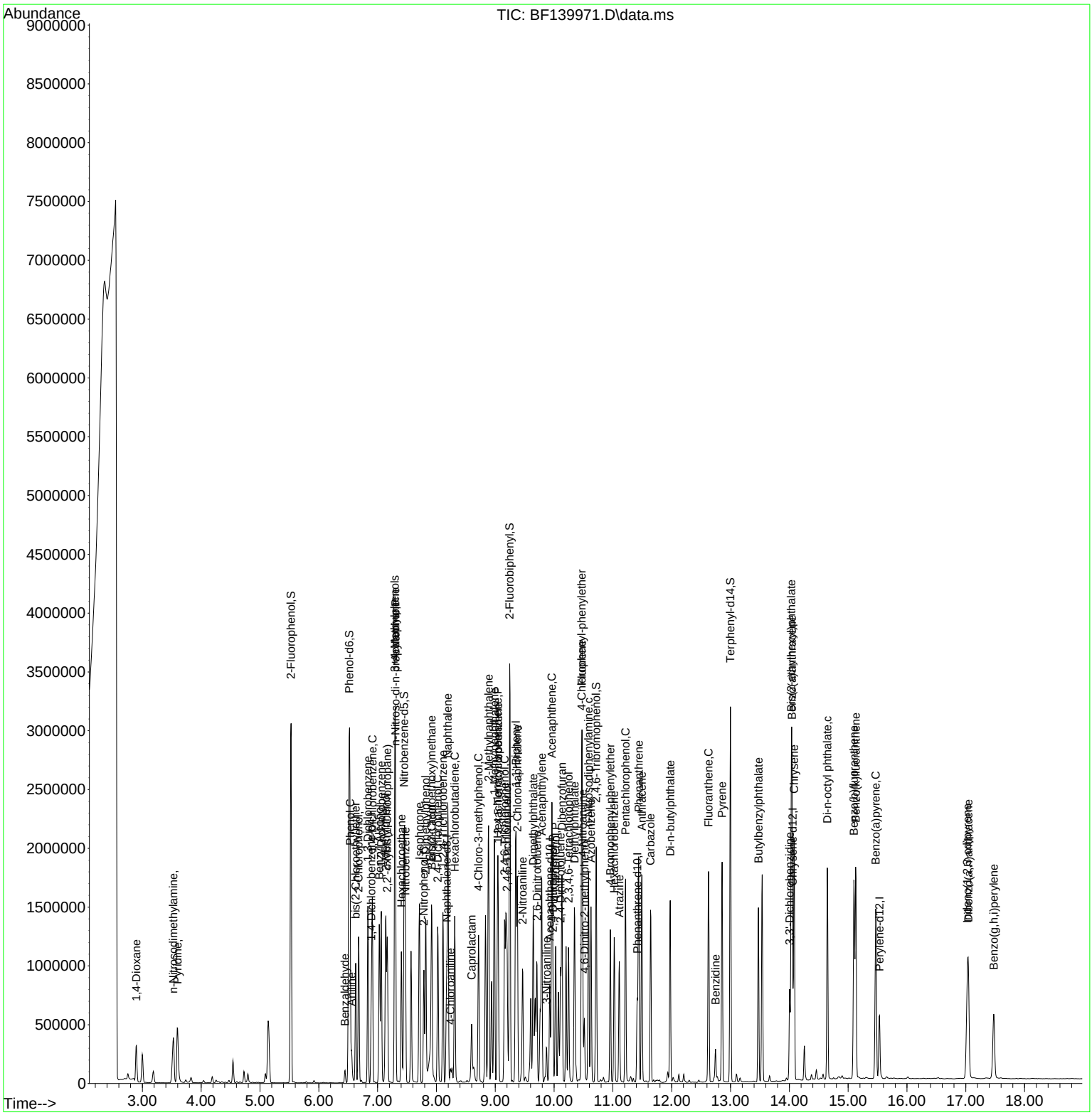
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139971.D
Acq On : 23 Oct 2024 18:28
Operator : RC/JU
Sample : P4397-06MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 24 01:10:59 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-301-BOTMSD

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/24/2024
Supervised By :mohammad ahmed 10/25/2024



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

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

Manual Integration Report

Sequence:	BF102324	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139952.D	Phenol	yogesh	10/24/2024 1:42:16 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
SSTDCCC040	BF139965.D	Phenol	yogesh	10/24/2024 1:42:27 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
P4397-06MS	BF139970.D	Phenol	Jagrut	10/24/2024 10:34:11 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
P4397-06MSD	BF139971.D	Phenol	Jagrut	10/24/2024 10:34:14 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF102424	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139990.D	Phenol	yogesh	10/25/2024 6:26:47 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
PB164315BS	BF139994.D	Caprolactam	yogesh	10/25/2024 6:26:55 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
PB164315BS	BF139994.D	Phenol	yogesh	10/25/2024 6:26:55 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
SSTDCCC040	BF140001.D	Phenol	yogesh	10/25/2024 6:27:19 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software

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 # 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 # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM				
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM				
SubDirectory	BF102324	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	BF139951.D	23 Oct 2024 08:52	RC/JU	Ok
2	SSTDCCC040	BF139952.D	23 Oct 2024 09:20	RC/JU	Ok,M
3	PB164020BL	BF139953.D	23 Oct 2024 09:48	RC/JU	Ok
4	PB164020BS	BF139954.D	23 Oct 2024 10:17	RC/JU	Ok,M
5	PB164237BL	BF139955.D	23 Oct 2024 10:45	RC/JU	Ok
6	PB164237BS	BF139956.D	23 Oct 2024 11:14	RC/JU	Ok,M
7	PB164208BL	BF139957.D	23 Oct 2024 11:42	RC/JU	Ok
8	PB164216BS	BF139958.D	23 Oct 2024 12:10	RC/JU	Ok,M
9	PB164123BS	BF139959.D	23 Oct 2024 12:39	RC/JU	Ok,M
10	PB164154BS	BF139960.D	23 Oct 2024 13:07	RC/JU	Ok,M
11	PB164154BSD	BF139961.D	23 Oct 2024 13:36	RC/JU	Ok,M
12	PB164286BL	BF139962.D	23 Oct 2024 14:04	RC/JU	Ok
13	PB164286BS	BF139963.D	23 Oct 2024 14:33	RC/JU	Ok,M
14	DFTPP	BF139964.D	23 Oct 2024 15:01	RC/JU	Ok
15	SSTDCCC040	BF139965.D	23 Oct 2024 15:30	RC/JU	Ok,M
16	PB164195TB	BF139966.D	23 Oct 2024 15:58	RC/JU	Ok
17	P4397-06	BF139967.D	23 Oct 2024 16:32	RC/JU	Ok
18	P4443-06DL	BF139968.D	23 Oct 2024 17:01	RC/JU	Ok,M
19	P4458-01	BF139969.D	23 Oct 2024 17:30	RC/JU	Ok,M
20	P4397-06MS	BF139970.D	23 Oct 2024 17:59	RC/JU	Ok,M
21	P4397-06MSD	BF139971.D	23 Oct 2024 18:28	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	P4472-04	BF139972.D	23 Oct 2024 18:56	RC/JU	Ok
23	P4468-06	BF139973.D	23 Oct 2024 19:25	RC/JU	Ok
24	P4468-04	BF139974.D	23 Oct 2024 19:54	RC/JU	Ok
25	P4397-04	BF139975.D	23 Oct 2024 20:22	RC/JU	Ok
26	P4397-02	BF139976.D	23 Oct 2024 20:51	RC/JU	Ok
27	P4397-02MS	BF139977.D	23 Oct 2024 21:20	RC/JU	Ok,M
28	P4397-02MSD	BF139978.D	23 Oct 2024 21:49	RC/JU	Ok,M
29	P4397-01	BF139979.D	23 Oct 2024 22:17	RC/JU	Ok,M
30	P4468-05	BF139980.D	23 Oct 2024 22:46	RC/JU	Ok
31	P4472-01	BF139981.D	23 Oct 2024 23:14	RC/JU	Ok
32	P4385-20	BF139982.D	23 Oct 2024 23:43	RC/JU	Ok,M
33	P4385-14	BF139983.D	24 Oct 2024 00:11	RC/JU	Ok
34	P4474-01	BF139984.D	24 Oct 2024 00:40	RC/JU	Ok
35	P4473-01	BF139985.D	24 Oct 2024 01:08	RC/JU	Ok
36	P4489-01	BF139986.D	24 Oct 2024 01:37	RC/JU	Dilution
37	P4486-01	BF139987.D	24 Oct 2024 02:06	RC/JU	Ok,M
38	P4468-03	BF139988.D	24 Oct 2024 02:34	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	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	BF139989.D	24 Oct 2024 09:26	RC/JU	Ok
2	SSTDCCC040	BF139990.D	24 Oct 2024 09:55	RC/JU	Ok,M
3	PB164312BL	BF139991.D	24 Oct 2024 10:23	RC/JU	Ok
4	PB164312BS	BF139992.D	24 Oct 2024 10:52	RC/JU	Ok,M
5	PB164315BL	BF139993.D	24 Oct 2024 11:20	RC/JU	Ok
6	PB164315BS	BF139994.D	24 Oct 2024 11:49	RC/JU	Ok,M
7	PB164301TB	BF139995.D	24 Oct 2024 12:17	RC/JU	Ok
8	PB163997BS	BF139996.D	24 Oct 2024 12:53	RC/JU	Ok,M
9	PB164208BS	BF139997.D	24 Oct 2024 13:21	RC/JU	Ok,M
10	PB164338BL	BF139998.D	24 Oct 2024 13:50	RC/JU	Ok
11	PB164338BS	BF139999.D	24 Oct 2024 14:19	RC/JU	Ok,M
12	DFTPP	BF140000.D	24 Oct 2024 14:47	RC/JU	Ok
13	SSTDCCC040	BF140001.D	24 Oct 2024 15:16	RC/JU	Ok,M
14	PB164261TB	BF140002.D	24 Oct 2024 15:44	RC/JU	Ok
15	P4489-01DL	BF140003.D	24 Oct 2024 16:19	RC/JU	Ok
16	P4467-01MS	BF140004.D	24 Oct 2024 16:48	RC/JU	Ok,M
17	P4467-01MSD	BF140005.D	24 Oct 2024 17:17	RC/JU	Ok,M
18	P4460-03MS	BF140006.D	24 Oct 2024 17:45	RC/JU	Ok,M
19	P4460-03MSD	BF140007.D	24 Oct 2024 18:14	RC/JU	Ok,M
20	P4467-04	BF140008.D	24 Oct 2024 18:42	RC/JU	Ok
21	P4472-08	BF140009.D	24 Oct 2024 19:11	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	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	P4460-03	BF140010.D	24 Oct 2024 19:39	RC/JU	ReRun
23	P4471-01	BF140011.D	24 Oct 2024 20:08	RC/JU	Ok
24	P4471-02	BF140012.D	24 Oct 2024 20:36	RC/JU	ReRun
25	P4467-01	BF140013.D	24 Oct 2024 21:04	RC/JU	ReRun
26	P4460-04	BF140014.D	24 Oct 2024 21:33	RC/JU	ReRun
27	P4468-01	BF140015.D	24 Oct 2024 22:01	RC/JU	ReRun
28	P4485-01	BF140016.D	24 Oct 2024 22:29	RC/JU	ReRun
29	P4487-01	BF140017.D	24 Oct 2024 22:58	RC/JU	ReRun
30	P4487-05	BF140018.D	24 Oct 2024 23:26	RC/JU	Ok
31	P4487-05MS	BF140019.D	24 Oct 2024 23:54	RC/JU	Ok,M
32	P4487-05MSD	BF140020.D	25 Oct 2024 00:22	RC/JU	Ok,M
33	P4485-02	BF140021.D	25 Oct 2024 00:50	RC/JU	ReRun
34	P4512-03	BF140022.D	25 Oct 2024 01:19	RC/JU	ReRun
35	P4470-01	BF140023.D	25 Oct 2024 01:46	RC/JU	Not Ok
36	P4472-05	BF140024.D	25 Oct 2024 02:14	RC/JU	ReRun

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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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 # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	BF139951.D	23 Oct 2024 08:52		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139952.D	23 Oct 2024 09:20		RC/JU	Ok,M
3	PB164020BL	PB164020BL	BF139953.D	23 Oct 2024 09:48		RC/JU	Ok
4	PB164020BS	PB164020BS	BF139954.D	23 Oct 2024 10:17		RC/JU	Ok,M
5	PB164237BL	PB164237BL	BF139955.D	23 Oct 2024 10:45		RC/JU	Ok
6	PB164237BS	PB164237BS	BF139956.D	23 Oct 2024 11:14		RC/JU	Ok,M
7	PB164208BL	PB164208BL	BF139957.D	23 Oct 2024 11:42		RC/JU	Ok
8	PB164216BS	PB164216BS	BF139958.D	23 Oct 2024 12:10		RC/JU	Ok,M
9	PB164123BS	PB164123BS	BF139959.D	23 Oct 2024 12:39		RC/JU	Ok,M
10	PB164154BS	PB164154BS	BF139960.D	23 Oct 2024 13:07		RC/JU	Ok,M
11	PB164154BSD	PB164154BSD	BF139961.D	23 Oct 2024 13:36		RC/JU	Ok,M
12	PB164286BL	PB164286BL	BF139962.D	23 Oct 2024 14:04		RC/JU	Ok
13	PB164286BS	PB164286BS	BF139963.D	23 Oct 2024 14:33		RC/JU	Ok,M
14	DFTPP	DFTPP	BF139964.D	23 Oct 2024 15:01		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF139965.D	23 Oct 2024 15:30		RC/JU	Ok,M
16	PB164195TB	PB164195TB	BF139966.D	23 Oct 2024 15:58		RC/JU	Ok
17	P4397-06	WB-301-BOT	BF139967.D	23 Oct 2024 16:32		RC/JU	Ok
18	P4443-06DL	OG-315-HR-502-COMP	BF139968.D	23 Oct 2024 17:01		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	

19	P4458-01	280517	BF139969.D	23 Oct 2024 17:30		RC/JU	Ok,M
20	P4397-06MS	WB-301-BOTMS	BF139970.D	23 Oct 2024 17:59		RC/JU	Ok,M
21	P4397-06MSD	WB-301-BOTMSD	BF139971.D	23 Oct 2024 18:28		RC/JU	Ok,M
22	P4472-04	BP-F-28	BF139972.D	23 Oct 2024 18:56		RC/JU	Ok
23	P4468-06	ETGI-345	BF139973.D	23 Oct 2024 19:25		RC/JU	Ok
24	P4468-04	ETGI-329	BF139974.D	23 Oct 2024 19:54		RC/JU	Ok
25	P4397-04	WB-301-SW	BF139975.D	23 Oct 2024 20:22		RC/JU	Ok
26	P4397-02	WB-301-BOT	BF139976.D	23 Oct 2024 20:51		RC/JU	Ok
27	P4397-02MS	WB-301-BOTMS	BF139977.D	23 Oct 2024 21:20		RC/JU	Ok,M
28	P4397-02MSD	WB-301-BOTMSD	BF139978.D	23 Oct 2024 21:49		RC/JU	Ok,M
29	P4397-01	WB-301-TOP	BF139979.D	23 Oct 2024 22:17		RC/JU	Ok,M
30	P4468-05	ETGI-345	BF139980.D	23 Oct 2024 22:46		RC/JU	Ok
31	P4472-01	BP-F-28	BF139981.D	23 Oct 2024 23:14		RC/JU	Ok
32	P4385-20	SP-10	BF139982.D	23 Oct 2024 23:43		RC/JU	Ok,M
33	P4385-14	SP-7	BF139983.D	24 Oct 2024 00:11		RC/JU	Ok
34	P4474-01	TS-2	BF139984.D	24 Oct 2024 00:40		RC/JU	Ok
35	P4473-01	TS-1	BF139985.D	24 Oct 2024 01:08		RC/JU	Ok
36	P4489-01	RT-2675	BF139986.D	24 Oct 2024 01:37	Internal Standard Failed, Need 5X Dilution	RC/JU	Dilution
37	P4486-01	EO-03-102224	BF139987.D	24 Oct 2024 02:06		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	

38	P4468-03	ETGI-329	BF139988.D	24 Oct 2024 02:34		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	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	BF139989.D	24 Oct 2024 09:26		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139990.D	24 Oct 2024 09:55		RC/JU	Ok,M
3	PB164312BL	PB164312BL	BF139991.D	24 Oct 2024 10:23		RC/JU	Ok
4	PB164312BS	PB164312BS	BF139992.D	24 Oct 2024 10:52		RC/JU	Ok,M
5	PB164315BL	PB164315BL	BF139993.D	24 Oct 2024 11:20		RC/JU	Ok
6	PB164315BS	PB164315BS	BF139994.D	24 Oct 2024 11:49		RC/JU	Ok,M
7	PB164301TB	PB164301TB	BF139995.D	24 Oct 2024 12:17		RC/JU	Ok
8	PB163997BS	PB163997BS	BF139996.D	24 Oct 2024 12:53		RC/JU	Ok,M
9	PB164208BS	PB164208BS	BF139997.D	24 Oct 2024 13:21		RC/JU	Ok,M
10	PB164338BL	PB164338BL	BF139998.D	24 Oct 2024 13:50		RC/JU	Ok
11	PB164338BS	PB164338BS	BF139999.D	24 Oct 2024 14:19		RC/JU	Ok,M
12	DFTPP	DFTPP	BF140000.D	24 Oct 2024 14:47		RC/JU	Ok
13	SSTDCCC040	SSTDCCC040	BF140001.D	24 Oct 2024 15:16		RC/JU	Ok,M
14	PB164261TB	PB164261TB	BF140002.D	24 Oct 2024 15:44		RC/JU	Ok
15	P4489-01DL	RT-2675DL	BF140003.D	24 Oct 2024 16:19	Internal Standard Fail	RC/JU	Ok
16	P4467-01MS	TP-1MS	BF140004.D	24 Oct 2024 16:48		RC/JU	Ok,M
17	P4467-01MSD	TP-1MSD	BF140005.D	24 Oct 2024 17:17		RC/JU	Ok,M
18	P4460-03MS	WB-303-BOTMS	BF140006.D	24 Oct 2024 17:45		RC/JU	Ok,M

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	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	P4460-03MSD	WB-303-BOTMSD	BF140007.D	24 Oct 2024 18:14		RC/JU	Ok,M
20	P4467-04	TP-1	BF140008.D	24 Oct 2024 18:42		RC/JU	Ok
21	P4472-08	BP-F-6	BF140009.D	24 Oct 2024 19:11		RC/JU	Ok
22	P4460-03	WB-303-BOT	BF140010.D	24 Oct 2024 19:39	Internal Standrad Fail	RC/JU	ReRun
23	P4471-01	B-180-SB01	BF140011.D	24 Oct 2024 20:08		RC/JU	Ok
24	P4471-02	B-180-SB02	BF140012.D	24 Oct 2024 20:36	Internal Standrad Fail	RC/JU	ReRun
25	P4467-01	TP-1	BF140013.D	24 Oct 2024 21:04	Internal Standrad Fail	RC/JU	ReRun
26	P4460-04	WB-303-BOT	BF140014.D	24 Oct 2024 21:33	Internal Standrad Fail	RC/JU	ReRun
27	P4468-01	ETGI-331	BF140015.D	24 Oct 2024 22:01	Internal Standrad Fail	RC/JU	ReRun
28	P4485-01	D20241001-01-04	BF140016.D	24 Oct 2024 22:29	Internal Standrad Fail	RC/JU	ReRun
29	P4487-01	BP-B5	BF140017.D	24 Oct 2024 22:58	Internal Standrad Fail	RC/JU	ReRun
30	P4487-05	BP-F27	BF140018.D	24 Oct 2024 23:26	Internal Standrad Fail	RC/JU	Ok
31	P4487-05MS	BP-F27MS	BF140019.D	24 Oct 2024 23:54	Internal Standrad Fail	RC/JU	Ok,M
32	P4487-05MSD	BP-F27MSD	BF140020.D	25 Oct 2024 00:22	Internal Standrad Fail	RC/JU	Ok,M
33	P4485-02	D20241001-01-04	BF140021.D	25 Oct 2024 00:50	Internal Standrad Fail	RC/JU	ReRun
34	P4512-03	VNJ-212	BF140022.D	25 Oct 2024 01:19	Internal Standrad Fail	RC/JU	ReRun
35	P4470-01	CL-01-102124	BF140023.D	25 Oct 2024 01:46	Need Straight Run	RC/JU	Not Ok
36	P4472-05	BP-F-6	BF140024.D	25 Oct 2024 02:14	Internal Standrad Fail	RC/JU	ReRun

M : Manual Integration

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TCLP EXTRACTION LOGPAGE

PB164261

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

TCLP Filter ID : 114771

Start Prep Date : 10/18/2024 **Time :** 17:00

End Prep Date : 10/19/2024 **Time :** 10:15

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	N/A
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 CHECKED,30 RPM. Particle size reduction is not required. p4460-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/21/24 0810	JP TCLP Room	JPP EXT
	Preparation Group	Analysis Group VOA PIG

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

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
P4397-06	WB-301-BOT	01	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4443-05	OG-315-HR-502-COMP-29	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P4443-10	OG-315-HR-502-COMP-30	03	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4458-02	280517	04	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4460-04	WB-303-BOT	05	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-1
PB164261TB	LEB261	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4397-06	WB-301-BOT	N/A	N/A	N/A	N/A	100	N/A
P4443-05	OG-315-HR-502-COMP-29	N/A	N/A	N/A	N/A	100	N/A
P4443-10	OG-315-HR-502-COMP-30	N/A	N/A	N/A	N/A	100	N/A
P4458-02	280517	N/A	N/A	N/A	N/A	100	N/A
P4460-04	WB-303-BOT	N/A	N/A	N/A	N/A	100	N/A
PB164261TB	LEB261	N/A	N/A	N/A	N/A	N/A	N/A

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TCLP Fluid Determination

PB164261

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
P4397-06	WB-301-BOT	5.02	96.5	7.4	2.5	#1	4.93
P4443-05	OG-315-HR-502-COMP-29	5.03	96.5	7.6	2.5	#1	4.93
P4443-10	OG-315-HR-502-COMP-30	5.02	96.5	6.0	2.0	#1	4.93
P4458-02	280517	5.01	96.5	7.6	2.5	#1	4.93
P4460-04	WB-303-BOT	5.02	96.5	8.4	3.0	#1	4.93
PB164261TB	LEB261	N/A	N/A	N/A	N/A	#1	4.93

P4397

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP P4397 **WorkList ID :** 184595 **Department :** TCLP Extraction **Date :** 10-18-2024 14:05:11

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4397-06	WB-301-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06		10/10/2024	1311
P4443-05	OG-315-HR-502-COMP-29	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311
P4443-10	OG-315-HR-502-COMP-30	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311
P4458-02	280517	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/18/2024	1311
P4460-04	WB-303-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K51	10/18/2024	1311

595 of 1303

Date/Time 10.18.24 16:20

Raw Sample Received by: JQ WPC

Raw Sample Relinquished by: CP SR

Date/Time 10.18.24 18:30

Raw Sample Received by: CP SR

Raw Sample Relinquished by: JQ WPC

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EXTRACTION LOGPAGE

PB164315

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/22/2024
Matrix :	Water			**Extraction Start Time :**	10:30
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	10/22/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	15:25
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:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11 with 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
10/22/24	RP (Ext. Lab)	AC/SVOC
15:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164315

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 10/22/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164261TB	PB164261TB	TCLP BNA	100	6	RUPESH	ritesh	1			SEP-1
PB164301TB	PB164301TB	TCLP BNA	100	6	RUPESH	ritesh	1			2
PB164315BL	PB164315BL	TCLP BNA	1000	6	RUPESH	ritesh	1			3
PB164315BS	PB164315BS	TCLP BNA	1000	6	RUPESH	ritesh	1			4
P4397-06	WB-301-BOT	TCLP BNA	100	6	RUPESH	ritesh	1	A		5
P4397-06MS	WB-301-BOTMS	TCLP BNA	100	6	RUPESH	ritesh	1	A		6
P4397-06MSD	WB-301-BOTMSD	TCLP BNA	100	6	RUPESH	ritesh	1	A		7
P4443-05	OG-315-HR-502-COMP-29	TCLP BNA	100	6	RUPESH	ritesh	1	A		8
P4443-10	OG-315-HR-502-COMP-30	TCLP BNA	100	6	RUPESH	ritesh	1	A		9
P4458-02	280517	TCLP BNA	100	6	RUPESH	ritesh	1	A		10
P4460-04	WB-303-BOT	TCLP BNA	100	6	RUPESH	ritesh	1	A		11
P4467-04	TP-1	TCLP BNA	100	6	RUPESH	ritesh	1	A		12
P4468-04	ETGI-329	TCLP BNA	100	6	RUPESH	ritesh	1	A		13
P4468-06	ETGI-345	TCLP BNA	100	6	RUPESH	ritesh	1	A		14
P4472-04	BP-F-28	TCLP BNA	100	6	RUPESH	ritesh	1	A		15
P4472-08	BP-F-6	TCLP BNA	100	6	RUPESH	ritesh	1	A		16

*** Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

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 P
P4397-06	WB-301-BOT	01	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-
P4443-05	OG-315-HR-502-COMP-29	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-
P4443-10	OG-315-HR-502-COMP-30	03	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-
P4458-02	280517	04	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-
P4460-04	WB-303-BOT	05	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-
PB164261TB	LEB261	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-

10/21/2024

08:00

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TCLP EXTRACTION LOGPAGE

PB164301

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	Pr... Pc...
P4467-04	TP-1	01	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-1
P4468-02	ETGI-331	02	100.03	2000	N/A	N/A	N/A	10.5	1.0	T-1
P4468-04	ETGI-329	03	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4468-06	ETGI-345	04	100.01	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4472-04	BP-F-28	05	100.03	2000	N/A	N/A	N/A	7.0	1.0	T-1
P4472-08	BP-F-6	06	100.04	2000	N/A	N/A	N/A	6.2	1.5	T-1
PB164301TB	LEB301	07	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

10/22/2024
20:00

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

LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**SOIL**			**10/10/24**			**10/11/24**
			SVOC-TCL BNA -20	8270E		10/14/24	10/23/24	
P4397-02	**WB-301-BOT**	**SOIL**			**10/10/24**			**10/11/24**
			SVOC-TCL BNA -20	8270E		10/14/24	10/23/24	
P4397-04	**WB-301-SW**	**Water**			**10/10/24**			**10/11/24**
			SVOC-TCL BNA -20	8270E		10/15/24	10/23/24	
P4397-06	**WB-301-BOT**	**TCLP**			**10/10/24**			**10/11/24**
			TCLP BNA	8270E		10/22/24	10/23/24	

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

Hit Summary Sheet
SW-846

SDG No.: P4397 **Order ID:** P4397

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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-06	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 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
PL092605.D	1	10/22/24 10:10	10/24/24 13:49	PB164360

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.049	U	0.049	0.50	ug/L
76-44-8	Heptachlor	0.054	U	0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.090	U	0.090	0.50	ug/L
72-20-8	Endrin	0.043	U	0.043	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.6		30 (43) - 150 (140)	108%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.5		30 (77) - 150 (126)	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

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:	10/22/24
Client Sample ID:	PB164261TB	SDG No.:	P4397
Lab Sample ID:	PB164261TB	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 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
PL092604.D	1	10/22/24 10:10	10/24/24 13:36	PB164360

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.049	U	0.049	0.50	ug/L
76-44-8	Heptachlor	0.054	U	0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.090	U	0.090	0.50	ug/L
72-20-8	Endrin	0.043	U	0.043	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.6		30 (43) - 150 (140)	108%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		30 (77) - 150 (126)	96%	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,
Fax : 908 789 8922

Surrogate Summary

SDG No.: P4397

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-PL092494.D	PIBLK-PL092494.D	Decachlorobiphenyl	1	20	21.5	107		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	22.0	110		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.4	107		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.0	100		30 (77)	150 (126)
I.BLK-PL092589.D	PIBLK-PL092589.D	Decachlorobiphenyl	1	20	21.0	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.0	100		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	23.3	116		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.0	105		30 (77)	150 (126)
PB164360BL	PB164360BL	Decachlorobiphenyl	1	20	19.8	99		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.6	93		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.0	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.5	98		30 (77)	150 (126)
PB164261TB	PB164261TB	Decachlorobiphenyl	1	20	19.9	100		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.3	91		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.6	108		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.1	96		30 (77)	150 (126)
P4397-06	WB-301-BOT	Decachlorobiphenyl	1	20	20.6	103		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	17.5	88		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.6	108		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	16.6	83		30 (77)	150 (126)
P4397-06MS	WB-301-BOTMS	Decachlorobiphenyl	1	20	19.4	97		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	15.9	80		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	20.9	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	16.3	82		30 (77)	150 (126)
P4397-06MSD	WB-301-BOTMSD	Decachlorobiphenyl	1	20	19.9	100		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	16.5	83		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.6	108		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	16.5	83		30 (77)	150 (126)
I.BLK-PL092612.D	PIBLK-PL092612.D	Decachlorobiphenyl	1	20	22.3	111		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.4	107		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	23.4	117		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	22.1	111		30 (77)	150 (126)
I.BLK-PL092637.D	PIBLK-PL092637.D	Decachlorobiphenyl	1	20	22.1	110		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.9	100		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	24.4	122		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.6	108		30 (77)	150 (126)
PB164360BS	PB164360BS	Decachlorobiphenyl	1	20	17.7	88		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	15.7	79		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.5	97		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	16.3	81		30 (77)	150 (126)
I.BLK-PL092649.D	PIBLK-PL092649.D	Decachlorobiphenyl	1	20	21.2	106		30 (43)	150 (140)

( ) = LABORATORY INHOUSE LIMIT

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

Surrogate Summary

SDG No.: P4397

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-PL092649.D	PIBLK-PL092649.D	Tetrachloro-m-xylene	1	20	20.0	100		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.2	111		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.4	107		30 (77)	150 (126)

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL092606.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-301-BOTMS**											
P4397-06MS	gamma-BHC (Lindane)	5	0	4.80	ug/L	96				30 (60)	150 (152)	
	Heptachlor	5	0	5.20	ug/L	104				30 (56)	150 (147)	
	Heptachlor epoxide	5	0	5.00	ug/L	100				30 (77)	150 (143)	
	Endrin	5	0	4.80	ug/L	96				30 (76)	150 (144)	
	Methoxychlor	5	0	5.20	ug/L	104				30 (70)	150 (142)	

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL092607.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-301-BOTMSD**											
P4397-06MSD	gamma-BHC (Lindane)	5	0	4.90	ug/L	98		2		30 (60)	150 (152)	20 (20)
	Heptachlor	5	0	5.30	ug/L	106		2		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	5	0	5.10	ug/L	102		2		30 (77)	150 (143)	20 (20)
	Endrin	5	0	5.00	ug/L	100		4		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	5.30	ug/L	106		2		30 (70)	150 (142)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **Datafile :** PL092642.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164360BS	gamma-BHC (Lindane)	0.5	0.47	ug/L	93				40 (82)	140 (129)	
	Heptachlor	0.5	0.48	ug/L	95				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.49	ug/L	98				40 (81)	140 (124)	
	Endrin	0.5	0.46	ug/L	93				40 (81)	140 (128)	
	Methoxychlor	0.5	0.52	ug/L	103				40 (78)	140 (108)	

( ) = LABORATORY INHOUSE LIMIT

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

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164360BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab Sample ID: PB164360BL Lab File ID: PL092602.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/22/2024

Date Analyzed (1): 10/24/2024 Date Analyzed (2): 10/24/2024

Time Analyzed (1): 13:09 Time Analyzed (2): 13:09

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
PB164261TB	PB164261TB	PL092604.D	10/24/2024	10/24/2024
WB-301-BOT	P4397-06	PL092605.D	10/24/2024	10/24/2024
WB-301-BOTMS	P4397-06MS	PL092606.D	10/24/2024	10/24/2024
WB-301-BOTMSD	P4397-06MSD	PL092607.D	10/24/2024	10/24/2024
PB164360BS	PB164360BS	PL092642.D	10/25/2024	10/25/2024

COMMENTS:

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:	PB164360BL	SDG No.:	P4397
Lab Sample ID:	PB164360BL	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
PL092602.D	1	10/22/24 10:10	10/24/24 13:09	PB164360

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	21.0		30 (43) - 150 (140)	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.5		30 (77) - 150 (126)	98%	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:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	PIBLK-PL092494.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PL092494.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
PL092494.D	1		10/21/24	PL102124

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	21.5		30 (43) - 150 (140)	107%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.0		30 (77) - 150 (126)	110%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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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

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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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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:	PIBLK-PL092589.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PL092589.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
PL092589.D	1		10/24/24	PL102424

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	23.3		30 (43) - 150 (140)	116%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.0		30 (77) - 150 (126)	105%	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

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:	PIBLK-PL092612.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PL092612.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
PL092612.D	1		10/24/24	PL102424

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	23.4		30 (43) - 150 (140)	117%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.1		30 (77) - 150 (126)	111%	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.
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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:	PIBLK-PL092637.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PL092637.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
PL092637.D	1		10/25/24	PL102624

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	24.4		30 (43) - 150 (140)	122%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		30 (77) - 150 (126)	108%	SPK: 20

Comments:

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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

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:	PIBLK-PL092649.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PL092649.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
PL092649.D	1		10/25/24	PL102624

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	22.2		30 (43) - 150 (140)	111%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.4		30 (77) - 150 (126)	107%	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:	PB164360BS	SDG No.:	P4397
Lab Sample ID:	PB164360BS	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
PL092642.D	1	10/22/24 10:10	10/25/24 17:35	PB164360

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.47		0.0049	0.050	ug/L
76-44-8	Heptachlor	0.48		0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.49		0.0090	0.050	ug/L
72-20-8	Endrin	0.46		0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.52		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	19.5		30 (43) - 150 (140)	97%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.3		30 (77) - 150 (126)	81%	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-06MS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 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
PL092606.D	1	10/22/24 10:10	10/24/24 14:03	PB164360

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	4.80		0.049	0.50	ug/L
76-44-8	Heptachlor	5.20		0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.00		0.090	0.50	ug/L
72-20-8	Endrin	4.80		0.043	0.50	ug/L
72-43-5	Methoxychlor	5.20		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.9		30 (43) - 150 (140)	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.3		30 (77) - 150 (126)	82%	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-06MSD	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 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
PL092607.D	1	10/22/24 10:10	10/24/24 14:16	PB164360

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	4.90		0.049	0.50	ug/L
76-44-8	Heptachlor	5.30		0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.10		0.090	0.50	ug/L
72-20-8	Endrin	5.00		0.043	0.50	ug/L
72-43-5	Methoxychlor	5.30		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.6		30 (43) - 150 (140)	108%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.5		30 (77) - 150 (126)	83%	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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_L **Calibration Date(s):** 10/21/2024 10/21/2024

Calibration Times: 13:00 13:53

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL092497.D RT 075 = PL092498.D

RT 050 = PL092499.D RT 025 = PL092500.D RT 005 = PL092501.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	9.06	9.06	9.06	9.05	9.06	9.06	8.96	9.16
Endrin	6.57	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	5.68	5.68	5.68	5.68	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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_L **Calibration Date(s):** 10/21/2024 10/21/2024

Calibration Times: 13:00 13:53

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL092497.D RT 075 = PL092498.D

RT 050 = PL092499.D RT 025 = PL092500.D RT 005 = PL092501.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	6.62	6.62	6.62	6.62	6.62	6.62	6.52	6.72
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_L **Calibration Date(s):** 10/21/2024 10/21/2024

Calibration Times: 13:00 13:53

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL092497.D **CF 075 =** PL092498.D

CF 050 = PL092499.D **CF 025 =** PL092500.D **CF 005 =** PL092501.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	1893630000	1911900000	1968460000	2071700000	2310050000	2031150000	8
Endrin	2580620000	2625010000	2734790000	2924540000	3253750000	2823740000	10
gamma-BHC (Lindane)	3651940000	3672710000	3751070000	3836830000	4321280000	3846770000	7
Heptachlor	3266860000	3307900000	3429100000	3569740000	4155000000	3545720000	10
Heptachlor epoxide	3004670000	3040630000	3248410000	3443240000	3866730000	3320740000	11
Methoxychlor	1148350000	1158380000	1214430000	1185540000	1181850000	1177710000	2
Tetrachloro-m-xylene	2537390000	2552890000	2586960000	2724730000	3067200000	2693840000	8

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_L **Calibration Date(s):** 10/21/2024 10/21/2024

Calibration Times: 13:00 13:53

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL092497.D **CF 075 =** PL092498.D

CF 050 = PL092499.D **CF 025 =** PL092500.D **CF 005 =** PL092501.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	2533020000	2508980000	2598990000	2640650000	2893220000	2634970000	6
Endrin	3096230000	3113840000	3236910000	3364340000	3563230000	3274910000	6
gamma-BHC (Lindane)	4098710000	4055410000	4107080000	4122620000	4206290000	4118020000	1
Heptachlor	3908940000	3891170000	3959270000	3983440000	4335990000	4015760000	5
Heptachlor epoxide	3409250000	3412120000	3473550000	3502030000	3820750000	3523540000	5
Methoxychlor	1383990000	1380180000	1398790000	1408970000	1517400000	1417870000	4
Tetrachloro-m-xylene	2710240000	2704020000	2735270000	2751220000	2986460000	2777440000	4

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_L **Date(s) Analyzed:** 10/21/2024 10/21/2024

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	131573000
		2	5.23	5.13	5.33	132167000
		3	5.94	5.84	6.04	463083000
		4	6.02	5.92	6.12	554260000
		5	6.87	6.77	6.97	113944000
Toxaphene	500	1	6.24	6.14	6.34	26646900
		2	6.44	6.34	6.54	15596100
		3	7.06	6.96	7.16	86692500
		4	7.15	7.05	7.25	69480900
		5	7.94	7.84	8.04	48743400

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_L **Date(s) Analyzed:** 10/21/2024 10/21/2024

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	116522000
		2	4.35	4.25	4.45	143580000
		3	4.98	4.88	5.08	384632000
		4	5.05	4.95	5.15	372850000
		5	5.94	5.84	6.04	146962000
Toxaphene	500	1	5.01	4.91	5.11	24468000
		2	5.33	5.23	5.43	24010200
		3	6.61	6.51	6.71	70676500
		4	6.73	6.63	6.83	82521800
		5	7.05	6.95	7.15	83166000

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/21/2024 10/21/2024

Continuing Calib Time: 10:19 **Initial Calibration Time(s):** 13:00 13:53

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.06	8.96	9.16	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	-0.01
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/21/2024 10/21/2024

Continuing Calib Time: 10:19 **Initial Calibration Time(s):** 13:00 13:53

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	6.62	6.62	6.52	6.72	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/24/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092591.D **Time Analyzed:** 10:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.057	8.955	9.155	51.250	50.000	2.5
Endrin	6.576	6.474	6.674	44.700	50.000	-10.6
gamma-BHC (Lindane)	4.330	4.227	4.427	48.930	50.000	-2.1
Heptachlor	4.918	4.815	5.015	47.520	50.000	-5.0
Heptachlor epoxide	5.684	5.583	5.783	46.660	50.000	-6.7
Methoxychlor	7.501	7.400	7.600	51.960	50.000	3.9
Tetrachloro-m-xylene	3.541	3.438	3.638	51.820	50.000	3.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/24/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092591.D **Time Analyzed:** 10:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.817	8.017	58.240	50.000	16.5
Endrin	5.643	5.541	5.741	53.080	50.000	6.2
gamma-BHC (Lindane)	3.612	3.510	3.710	56.090	50.000	12.2
Heptachlor	3.951	3.849	4.049	56.020	50.000	12.0
Heptachlor epoxide	4.733	4.631	4.831	55.710	50.000	11.4
Methoxychlor	6.616	6.515	6.715	58.450	50.000	16.9
Tetrachloro-m-xylene	2.779	2.677	2.877	56.670	50.000	13.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/21/2024 10/21/2024

Continuing Calib Time: 17:20 **Initial Calibration Time(s):** 13:00 13:53

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.06	8.96	9.16	0.00
Tetrachloro-m-xylene	3.55	3.54	3.44	3.64	-0.01
gamma-BHC (Lindane)	4.34	4.33	4.23	4.43	-0.01
Heptachlor	4.92	4.92	4.82	5.02	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
Methoxychlor	7.51	7.50	7.40	7.60	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/21/2024 10/21/2024

Continuing Calib Time: 17:20 **Initial Calibration Time(s):** 13:00 13:53

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	4.74	4.73	4.63	4.83	-0.01
Endrin	5.65	5.64	5.54	5.74	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/24/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092613.D **Time Analyzed:** 17:20

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.061	8.955	9.155	49.250	50.000	-1.5
Endrin	6.582	6.474	6.674	42.050	50.000	-15.9
gamma-BHC (Lindane)	4.335	4.227	4.427	46.560	50.000	-6.9
Heptachlor	4.922	4.815	5.015	45.870	50.000	-8.3
Heptachlor epoxide	5.690	5.583	5.783	43.230	50.000	-13.5
Methoxychlor	7.506	7.400	7.600	51.180	50.000	2.4
Tetrachloro-m-xylene	3.547	3.438	3.638	49.340	50.000	-1.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/24/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092613.D **Time Analyzed:** 17:20

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.920	7.817	8.017	53.280	50.000	6.6
Endrin	5.645	5.541	5.741	51.590	50.000	3.2
gamma-BHC (Lindane)	3.613	3.510	3.710	53.810	50.000	7.6
Heptachlor	3.952	3.849	4.049	53.550	50.000	7.1
Heptachlor epoxide	4.735	4.631	4.831	53.230	50.000	6.5
Methoxychlor	6.619	6.515	6.715	56.150	50.000	12.3
Tetrachloro-m-xylene	2.779	2.677	2.877	54.610	50.000	9.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/25/2024 **Initial Calibration Date(s):** 10/21/2024 10/21/2024

Continuing Calib Time: 15:49 **Initial Calibration Time(s):** 13:00 13:53

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.06	8.96	9.16	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	-0.01
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/25/2024 **Initial Calibration Date(s):** 10/21/2024 10/21/2024

Continuing Calib Time: 15:49 **Initial Calibration Time(s):** 13:00 13:53

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	6.62	6.62	6.52	6.72	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/25/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092639.D **Time Analyzed:** 15:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.057	8.955	9.155	51.240	50.000	2.5
Endrin	6.577	6.474	6.674	43.260	50.000	-13.5
gamma-BHC (Lindane)	4.330	4.227	4.427	47.880	50.000	-4.2
Heptachlor	4.917	4.815	5.015	46.560	50.000	-6.9
Heptachlor epoxide	5.685	5.583	5.783	45.530	50.000	-8.9
Methoxychlor	7.501	7.400	7.600	51.890	50.000	3.8
Tetrachloro-m-xylene	3.541	3.438	3.638	50.750	50.000	1.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/25/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092639.D **Time Analyzed:** 15:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.817	8.017	58.290	50.000	16.6
Endrin	5.643	5.541	5.741	53.930	50.000	7.9
gamma-BHC (Lindane)	3.612	3.510	3.710	55.850	50.000	11.7
Heptachlor	3.951	3.849	4.049	54.990	50.000	10.0
Heptachlor epoxide	4.734	4.631	4.831	54.980	50.000	10.0
Methoxychlor	6.617	6.515	6.715	57.220	50.000	14.4
Tetrachloro-m-xylene	2.779	2.677	2.877	56.350	50.000	12.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/25/2024 **Initial Calibration Date(s):** 10/21/2024 10/21/2024

Continuing Calib Time: 19:49 **Initial Calibration Time(s):** 13:00 13:53

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.06	8.96	9.16	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	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/25/2024 **Initial Calibration Date(s):** 10/21/2024 10/21/2024

Continuing Calib Time: 19:49 **Initial Calibration Time(s):** 13:00 13:53

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	6.62	6.62	6.52	6.72	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/25/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092650.D **Time Analyzed:** 19:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.058	8.955	9.155	49.750	50.000	-0.5
Endrin	6.577	6.474	6.674	41.530	50.000	-16.9
gamma-BHC (Lindane)	4.330	4.227	4.427	46.750	50.000	-6.5
Heptachlor	4.918	4.815	5.015	45.090	50.000	-9.8
Heptachlor epoxide	5.686	5.583	5.783	43.960	50.000	-12.1
Methoxychlor	7.501	7.400	7.600	49.670	50.000	-0.7
Tetrachloro-m-xylene	3.541	3.438	3.638	49.590	50.000	-0.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/25/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092650.D **Time Analyzed:** 19:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.817	8.017	54.870	50.000	9.7
Endrin	5.644	5.541	5.741	51.490	50.000	3.0
gamma-BHC (Lindane)	3.612	3.510	3.710	54.770	50.000	9.5
Heptachlor	3.951	3.849	4.049	53.610	50.000	7.2
Heptachlor epoxide	4.734	4.631	4.831	54.180	50.000	8.4
Methoxychlor	6.617	6.515	6.715	53.570	50.000	7.1
Tetrachloro-m-xylene	2.779	2.677	2.877	55.300	50.000	10.6

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No. (PEM): PEM - PL092495.D **Date Analyzed:** 10/21/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 12:33

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.056	8.960	9.160	19.690	20.000	-1.6
Tetrachloro-m-xylene	3.539	3.490	3.590	19.690	20.000	-1.6
alpha-BHC	3.995	3.940	4.050	10.390	10.000	3.9
beta-BHC	4.525	4.470	4.580	9.750	10.000	-2.5
gamma-BHC (Lindane)	4.327	4.280	4.380	9.890	10.000	-1.1
Endrin	6.575	6.500	6.650	44.220	50.000	-11.6
4,4'-DDT	7.025	6.950	7.100	91.010	100.000	-9.0
Methoxychlor	7.501	7.430	7.570	222.860	250.000	-10.9

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No. (PEM): PEM - PL092495.D **Date Analyzed:** 10/21/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 12:33

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.820	8.020	19.360	20.000	-3.2
Tetrachloro-m-xylene	2.777	2.730	2.830	19.090	20.000	-4.6
alpha-BHC	3.280	3.230	3.330	9.580	10.000	-4.2
beta-BHC	3.910	3.860	3.960	11.410	10.000	14.1
gamma-BHC (Lindane)	3.610	3.560	3.660	9.570	10.000	-4.3
Endrin	5.642	5.570	5.710	45.220	50.000	-9.6
4,4'-DDT	6.041	5.970	6.110	97.030	100.000	-3.0
Methoxychlor	6.616	6.550	6.690	226.150	250.000	-9.5

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No. (PEM): PEM - PL092590.D **Date Analyzed:** 10/24/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:06

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.058	8.960	9.160	19.320	20.000	-3.4
Tetrachloro-m-xylene	3.541	3.490	3.590	19.300	20.000	-3.5
alpha-BHC	3.997	3.950	4.050	9.060	10.000	-9.4
beta-BHC	4.527	4.480	4.580	10.490	10.000	4.9
gamma-BHC (Lindane)	4.329	4.280	4.380	9.110	10.000	-8.9
Endrin	6.577	6.510	6.650	36.800	50.000	-26.4
4,4'-DDT	7.026	6.960	7.100	80.280	100.000	-19.7
Methoxychlor	7.503	7.430	7.570	215.310	250.000	-13.9

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No. (PEM): PEM - PL092590.D **Date Analyzed:** 10/24/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:06

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.820	8.020	21.540	20.000	7.7
Tetrachloro-m-xylene	2.779	2.730	2.830	19.600	20.000	-2.0
alpha-BHC	3.282	3.230	3.330	9.140	10.000	-8.6
beta-BHC	3.911	3.860	3.960	10.700	10.000	7.0
gamma-BHC (Lindane)	3.612	3.560	3.660	8.890	10.000	-11.1
Endrin	5.643	5.570	5.710	43.270	50.000	-13.5
4,4'-DDT	6.041	5.970	6.110	98.890	100.000	-1.1
Methoxychlor	6.616	6.550	6.690	247.330	250.000	-1.1

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No. (PEM): PEM - PL092638.D **Date Analyzed:** 10/25/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:22

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.059	8.960	9.160	19.520	20.000	-2.4
Tetrachloro-m-xylene	3.542	3.490	3.590	18.900	20.000	-5.5
alpha-BHC	3.998	3.950	4.050	8.890	10.000	-11.1
beta-BHC	4.528	4.480	4.580	10.650	10.000	6.5
gamma-BHC (Lindane)	4.330	4.280	4.380	8.960	10.000	-10.4
Endrin	6.576	6.510	6.650	36.770	50.000	-26.5
4,4'-DDT	7.027	6.960	7.100	77.380	100.000	-22.6
Methoxychlor	7.503	7.430	7.570	208.950	250.000	-16.4

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No. (PEM): PEM - PL092638.D **Date Analyzed:** 10/25/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:22

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.919	7.820	8.020	21.610	20.000	8.1
Tetrachloro-m-xylene	2.781	2.730	2.830	19.830	20.000	-0.9
alpha-BHC	3.283	3.230	3.330	9.010	10.000	-9.9
beta-BHC	3.913	3.860	3.960	10.290	10.000	2.9
gamma-BHC (Lindane)	3.613	3.560	3.660	8.840	10.000	-11.6
Endrin	5.644	5.570	5.710	44.220	50.000	-11.6
4,4'-DDT	6.042	5.970	6.110	99.500	100.000	-0.5
Methoxychlor	6.617	6.550	6.690	246.500	250.000	-1.4

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/21/2024 10/21/2024

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	10/21/2024	12:19	PL092494.D	9.06	3.54
PEM	PEM	10/21/2024	12:33	PL092495.D	9.06	3.54
RESCHK	RESCHK	10/21/2024	12:46	PL092496.D	9.06	3.54
PSTDICC100	PSTDICC100	10/21/2024	13:00	PL092497.D	9.06	3.54
PSTDICC075	PSTDICC075	10/21/2024	13:13	PL092498.D	9.06	3.54
PSTDICC050	PSTDICC050	10/21/2024	13:26	PL092499.D	9.06	3.54
PSTDICC025	PSTDICC025	10/21/2024	13:40	PL092500.D	9.05	3.54
PSTDICC005	PSTDICC005	10/21/2024	13:53	PL092501.D	9.06	3.54
PCHLORICC500	PCHLORICC500	10/21/2024	14:33	PL092504.D	9.06	3.54
PTOXICC500	PTOXICC500	10/21/2024	15:40	PL092509.D	9.06	3.54
I.BLK	I.BLK	10/24/2024	09:53	PL092589.D	9.06	3.54
PEM	PEM	10/24/2024	10:06	PL092590.D	9.06	3.54
PSTDCCC050	PSTDCCC050	10/24/2024	10:19	PL092591.D	9.06	3.54
PB164360BL	PB164360BL	10/24/2024	13:09	PL092602.D	9.06	3.54
PB164261TB	PB164261TB	10/24/2024	13:36	PL092604.D	9.06	3.54
WB-301-BOT	P4397-06	10/24/2024	13:49	PL092605.D	9.06	3.54
WB-301-BOTMS	P4397-06MS	10/24/2024	14:03	PL092606.D	9.06	3.54
WB-301-BOTMSD	P4397-06MSD	10/24/2024	14:16	PL092607.D	9.06	3.54
I.BLK	I.BLK	10/24/2024	16:48	PL092612.D	9.06	3.54
PSTDCCC050	PSTDCCC050	10/24/2024	17:20	PL092613.D	9.06	3.55
I.BLK	I.BLK	10/25/2024	15:08	PL092637.D	9.06	3.54
PEM	PEM	10/25/2024	15:22	PL092638.D	9.06	3.54
PSTDCCC050	PSTDCCC050	10/25/2024	15:49	PL092639.D	9.06	3.54
PB164360BS	PB164360BS	10/25/2024	17:35	PL092642.D	9.06	3.55
I.BLK	I.BLK	10/25/2024	19:09	PL092649.D	9.06	3.54
PSTDCCC050	PSTDCCC050	10/25/2024	19:49	PL092650.D	9.06	3.54

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/21/2024 10/21/2024

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	10/21/2024	12:19	PL092494.D	7.92	2.78
PEM	PEM	10/21/2024	12:33	PL092495.D	7.92	2.78
RESCHK	RESCHK	10/21/2024	12:46	PL092496.D	7.92	2.78
PSTDICC100	PSTDICC100	10/21/2024	13:00	PL092497.D	7.92	2.78
PSTDICC075	PSTDICC075	10/21/2024	13:13	PL092498.D	7.92	2.78
PSTDICC050	PSTDICC050	10/21/2024	13:26	PL092499.D	7.92	2.78
PSTDICC025	PSTDICC025	10/21/2024	13:40	PL092500.D	7.92	2.78
PSTDICC005	PSTDICC005	10/21/2024	13:53	PL092501.D	7.92	2.78
PCHLORICC500	PCHLORICC500	10/21/2024	14:33	PL092504.D	7.92	2.78
PTOXICC500	PTOXICC500	10/21/2024	15:40	PL092509.D	7.92	2.78
I.BLK	I.BLK	10/24/2024	09:53	PL092589.D	7.92	2.78
PEM	PEM	10/24/2024	10:06	PL092590.D	7.92	2.78
PSTDCCC050	PSTDCCC050	10/24/2024	10:19	PL092591.D	7.92	2.78
PB164360BL	PB164360BL	10/24/2024	13:09	PL092602.D	7.92	2.78
PB164261TB	PB164261TB	10/24/2024	13:36	PL092604.D	7.92	2.78
WB-301-BOT	P4397-06	10/24/2024	13:49	PL092605.D	7.92	2.78
WB-301-BOTMS	P4397-06MS	10/24/2024	14:03	PL092606.D	7.92	2.78
WB-301-BOTMSD	P4397-06MSD	10/24/2024	14:16	PL092607.D	7.92	2.78
I.BLK	I.BLK	10/24/2024	16:48	PL092612.D	7.92	2.78
PSTDCCC050	PSTDCCC050	10/24/2024	17:20	PL092613.D	7.92	2.78
I.BLK	I.BLK	10/25/2024	15:08	PL092637.D	7.92	2.78
PEM	PEM	10/25/2024	15:22	PL092638.D	7.92	2.78
PSTDCCC050	PSTDCCC050	10/25/2024	15:49	PL092639.D	7.92	2.78
PB164360BS	PB164360BS	10/25/2024	17:35	PL092642.D	7.92	2.78
I.BLK	I.BLK	10/25/2024	19:09	PL092649.D	7.92	2.78
PSTDCCC050	PSTDCCC050	10/25/2024	19:49	PL092650.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.
PB164360BS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Lab Sample ID: PB164360BS **Date(s) Analyzed:** 10/25/2024 10/25/2024

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	7.51	7.46	7.56	0.47	8.6
	2	6.62	6.57	6.67	0.52	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.41	13.1
	2	3.61	3.56	3.66	0.47	
Heptachlor	1	4.92	4.87	4.97	0.41	14.9
	2	3.95	3.90	4.00	0.48	
Heptachlor epoxide	1	5.69	5.64	5.74	0.41	18.3
	2	4.74	4.69	4.79	0.49	
Endrin	1	6.58	6.53	6.63	0.39	18.3
	2	5.65	5.60	5.70	0.46	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-301-BOTMS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Lab Sample ID: P4397-06MS **Date(s) Analyzed:** 10/24/2024 10/24/2024

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	4.90	5.9
	2	6.62	6.57	6.67	5.20	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	4.10	15.7
	2	3.61	3.56	3.66	4.80	
Heptachlor	1	4.92	4.87	4.97	4.30	18.9
	2	3.95	3.90	4.00	5.20	
Heptachlor epoxide	1	5.69	5.64	5.74	4.10	19.8
	2	4.73	4.68	4.78	5.00	
Endrin	1	6.58	6.53	6.63	4.00	18.2
	2	5.64	5.59	5.69	4.80	

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-301-BOTMSD

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Lab Sample ID: P4397-06MSD **Date(s) Analyzed:** 10/24/2024 10/24/2024

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	5.00	5.8
	2	6.62	6.57	6.67	5.30	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	4.20	15.4
	2	3.61	3.56	3.66	4.90	
Heptachlor	1	4.92	4.87	4.97	4.40	18.6
	2	3.95	3.90	4.00	5.30	
Heptachlor epoxide	1	5.69	5.64	5.74	4.10	21.7
	2	4.73	4.68	4.78	5.10	
Endrin	1	6.58	6.53	6.63	4.10	19.8
	2	5.64	5.59	5.69	5.00	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102424\
Data File : PL092605.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 13:49
Operator : AR\AJ
Sample : P4397-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-301-BOT

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:16:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 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	47159397	46099909	17.506m	16.598m
28)	SA Decachlor...	9.058	7.919	41773159	56817305	20.566	21.563
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

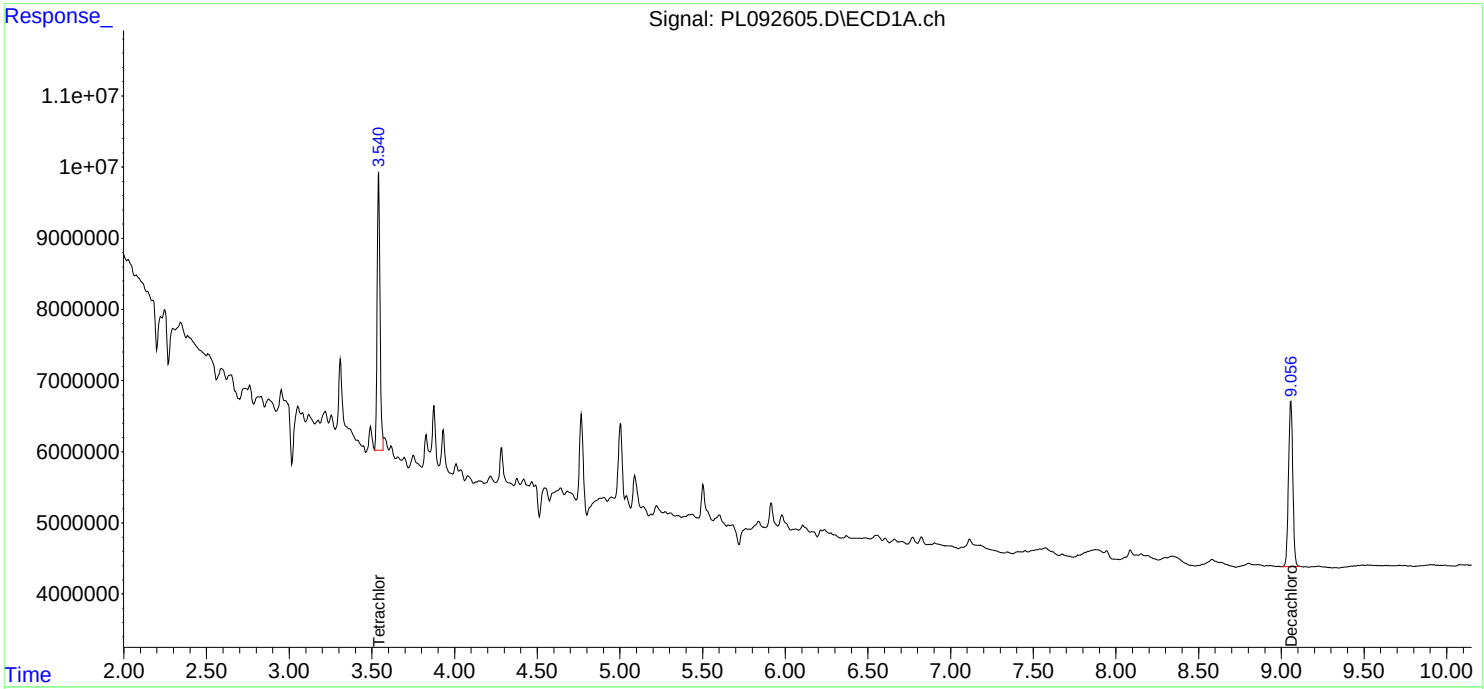
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102424\
Data File : PL092605.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 13:49
Operator : AR\AJ
Sample : P4397-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

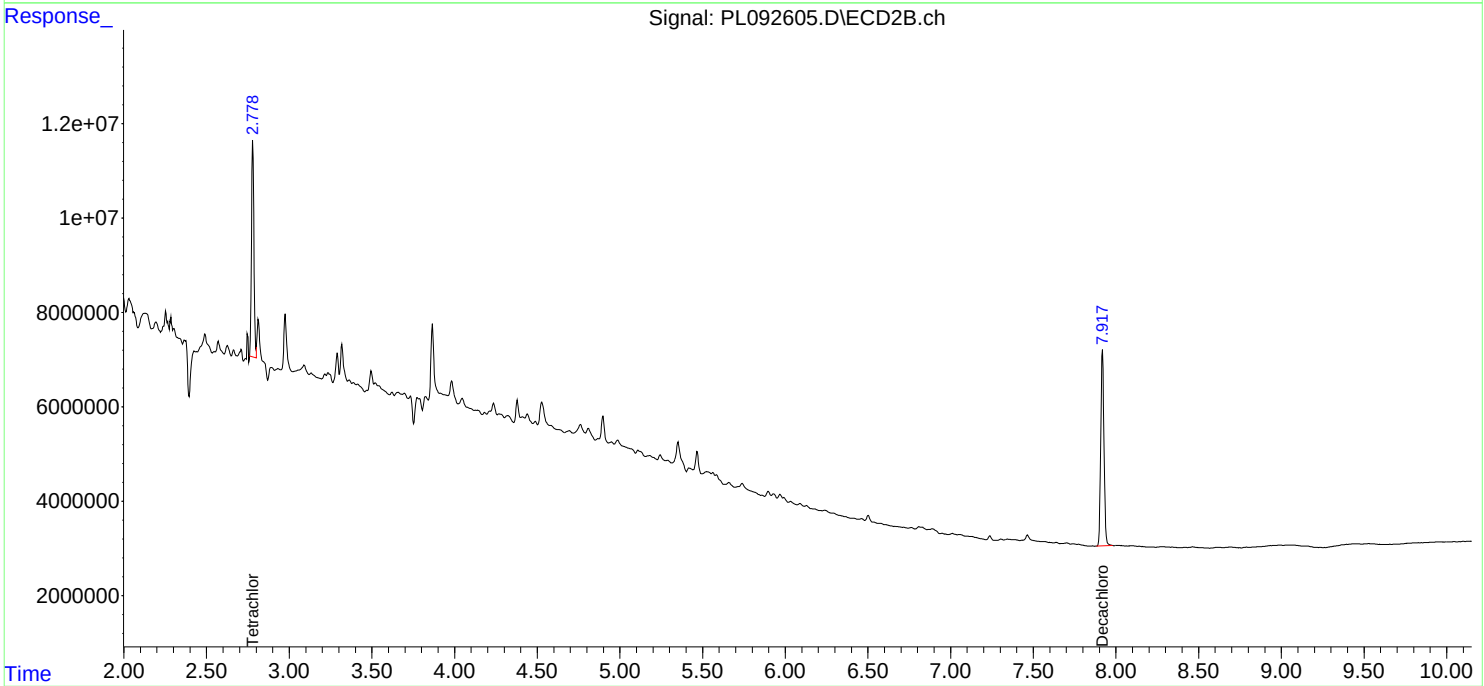
Instrument :
ECD_L
ClientSampleId :
WB-301-BOT

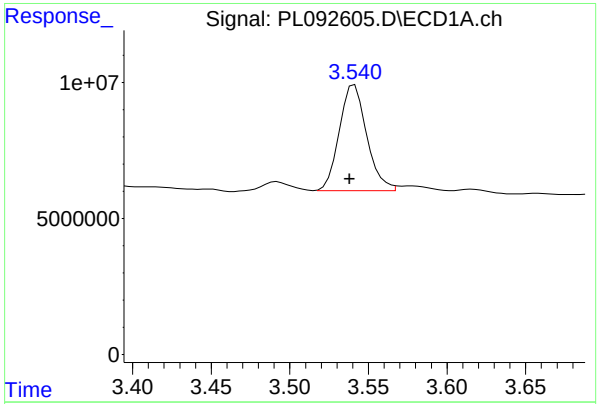
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:16:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 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







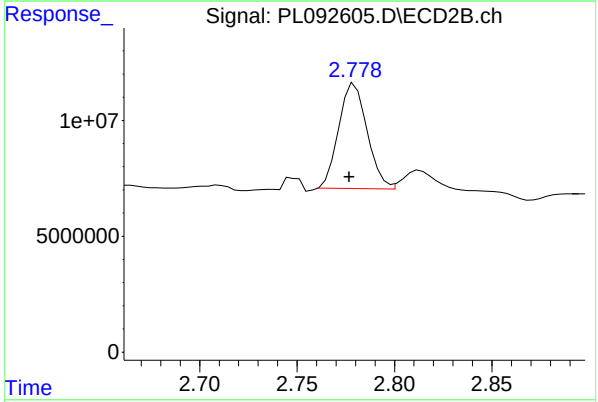
#1 Tetrachloro-m-xylene

R.T.: 3.540 min
Delta R.T.: 0.002 min
Response: 47159397
Conc: 17.51 ng/ml

Instrument :
ECD_L
ClientSampleId :
WB-301-BOT

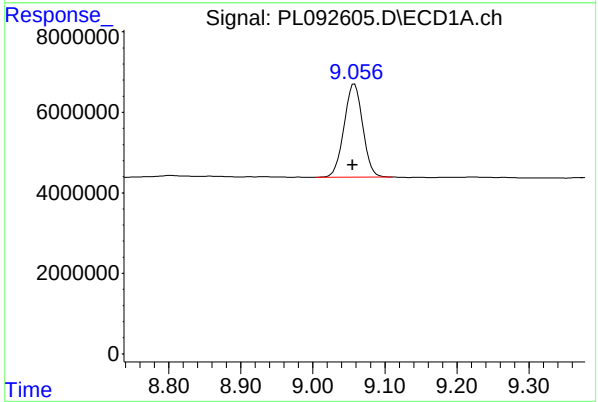
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024



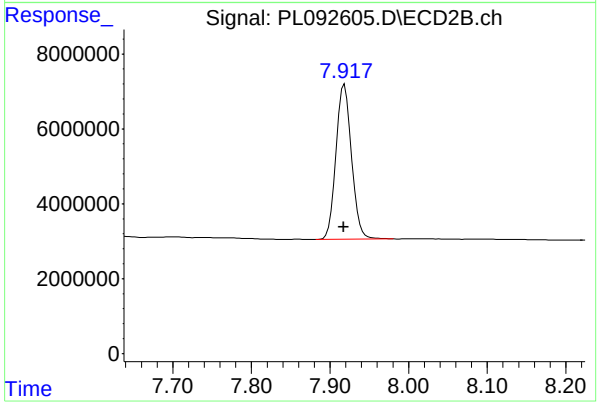
#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.001 min
Response: 46099909
Conc: 16.60 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.058 min
Delta R.T.: 0.003 min
Response: 41773159
Conc: 20.57 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.919 min
Delta R.T.: 0.001 min
Response: 56817305
Conc: 21.56 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102424\
Data File : PL092604.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 13:36
Operator : AR\AJ
Sample : PB164261TB
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164261TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:15:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 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	49274453	53074312	18.292	19.109
28)	SA Decachlor...	9.056	7.918	40501733	56815075	19.940	21.562
	Target Compounds						

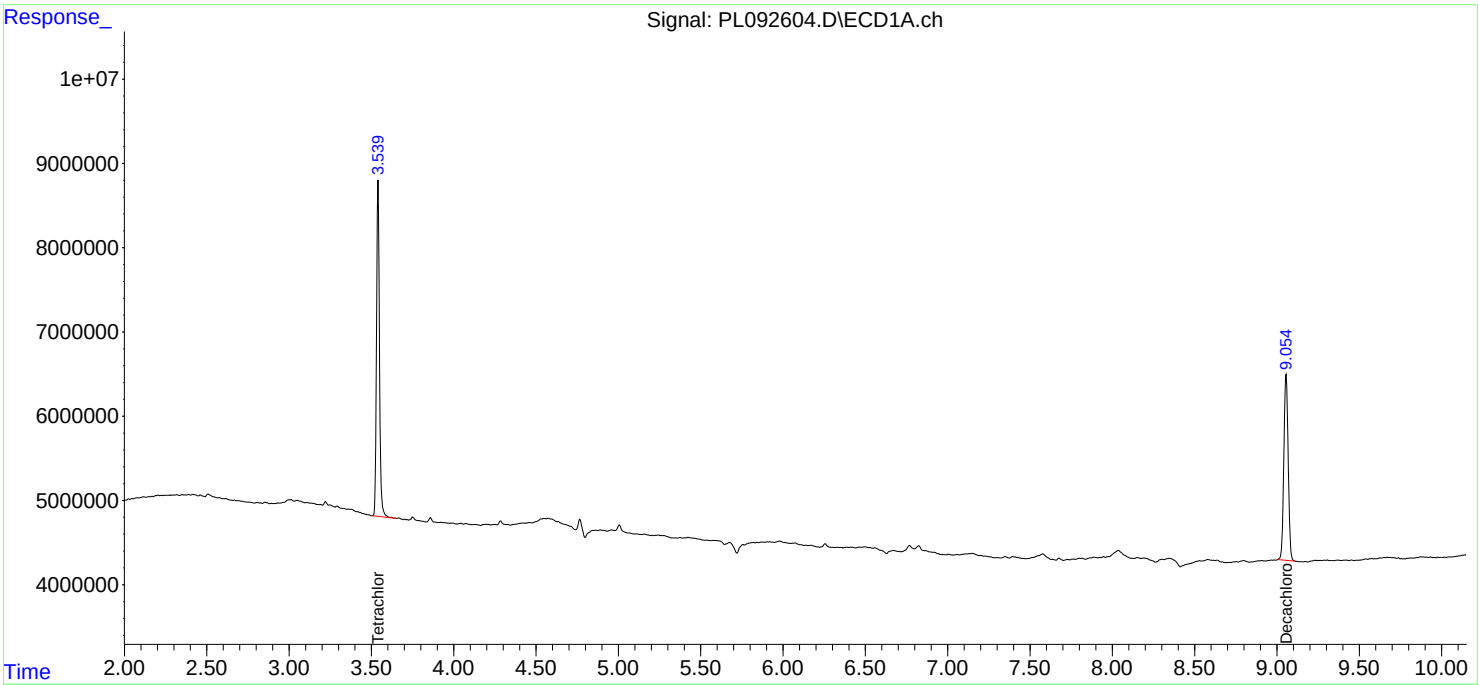
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

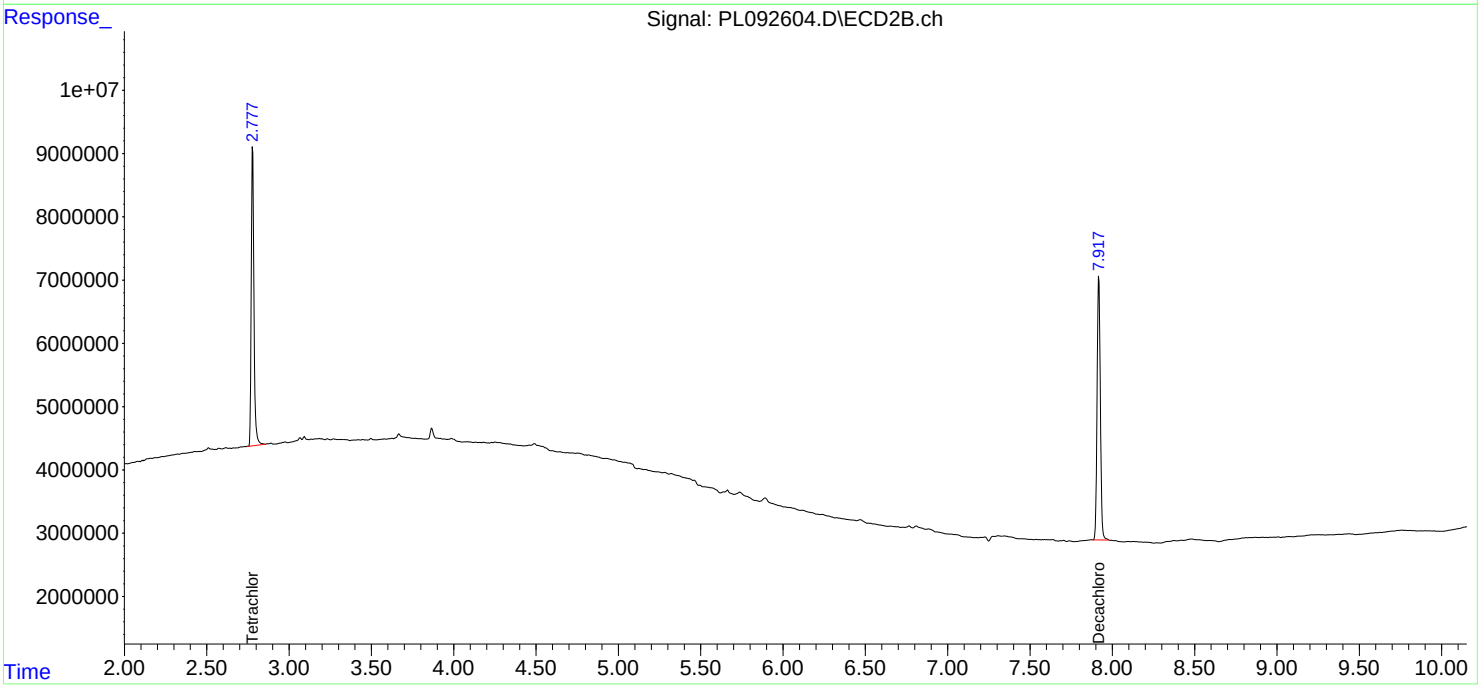
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102424\
Data File : PL092604.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 13:36
Operator : AR\AJ
Sample : PB164261TB
Misc :
ALS Vial : 17 Sample Multiplier: 1

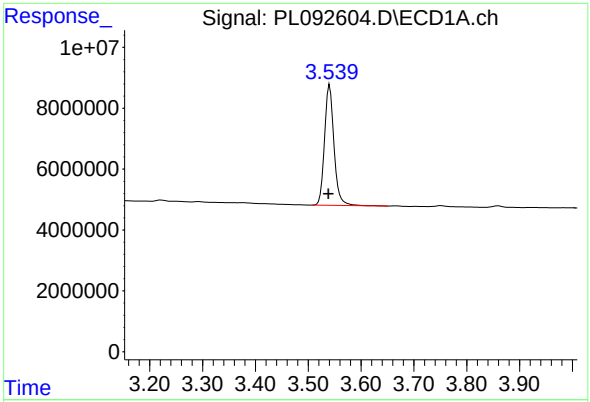
Instrument :
ECD_L
ClientSampleId :
PB164261TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:15:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 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



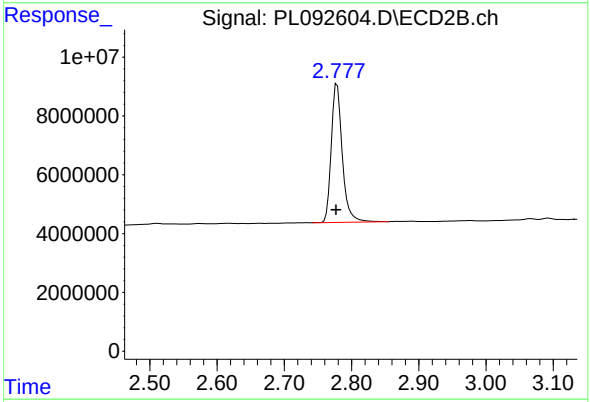




#1 Tetrachloro-m-xylene

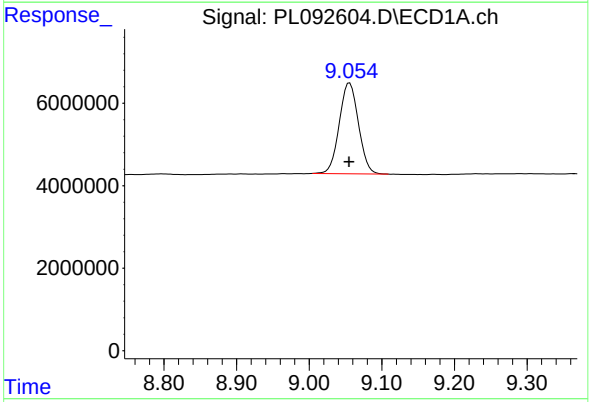
R.T.: 3.541 min
Delta R.T.: 0.003 min
Response: 49274453
Conc: 18.29 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB164261TB



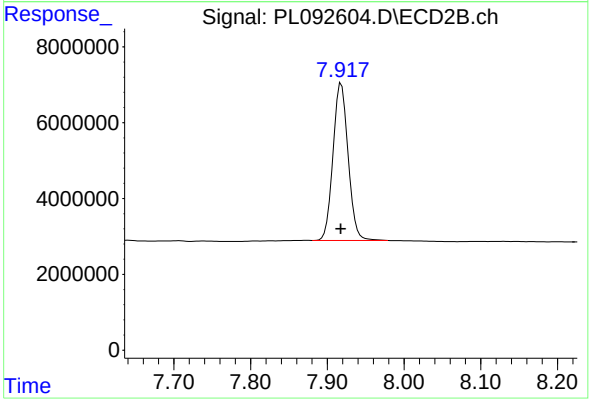
#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.002 min
Response: 53074312
Conc: 19.11 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.056 min
Delta R.T.: 0.000 min
Response: 40501733
Conc: 19.94 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.000 min
Response: 56815075
Conc: 21.56 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102424\
Data File : PL092602.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 13:09
Operator : AR\AJ
Sample : PB164360BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164360BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:13:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 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	2.778	50081230	54157855	18.591	19.499
28)	SA Decachlor...	9.057	7.918	40145227	55397651	19.765	21.024
	Target Compounds						

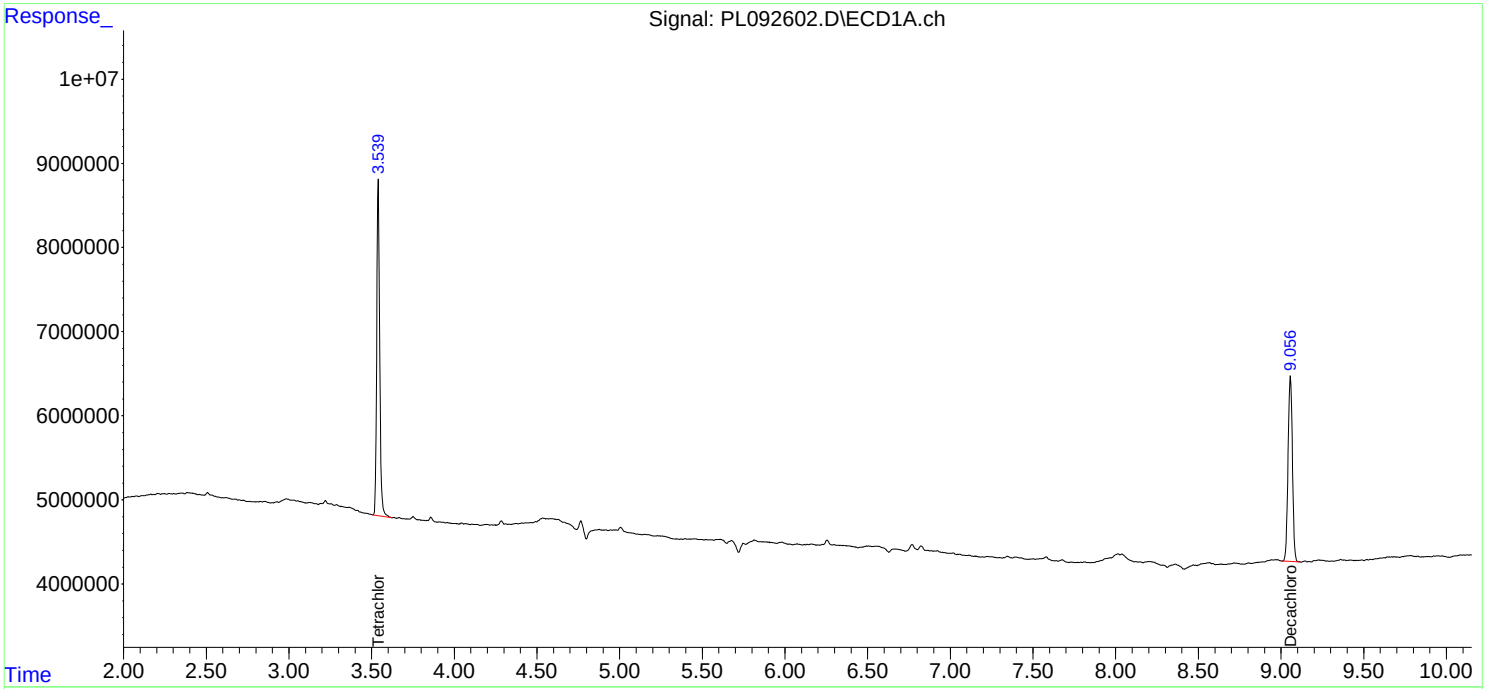
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

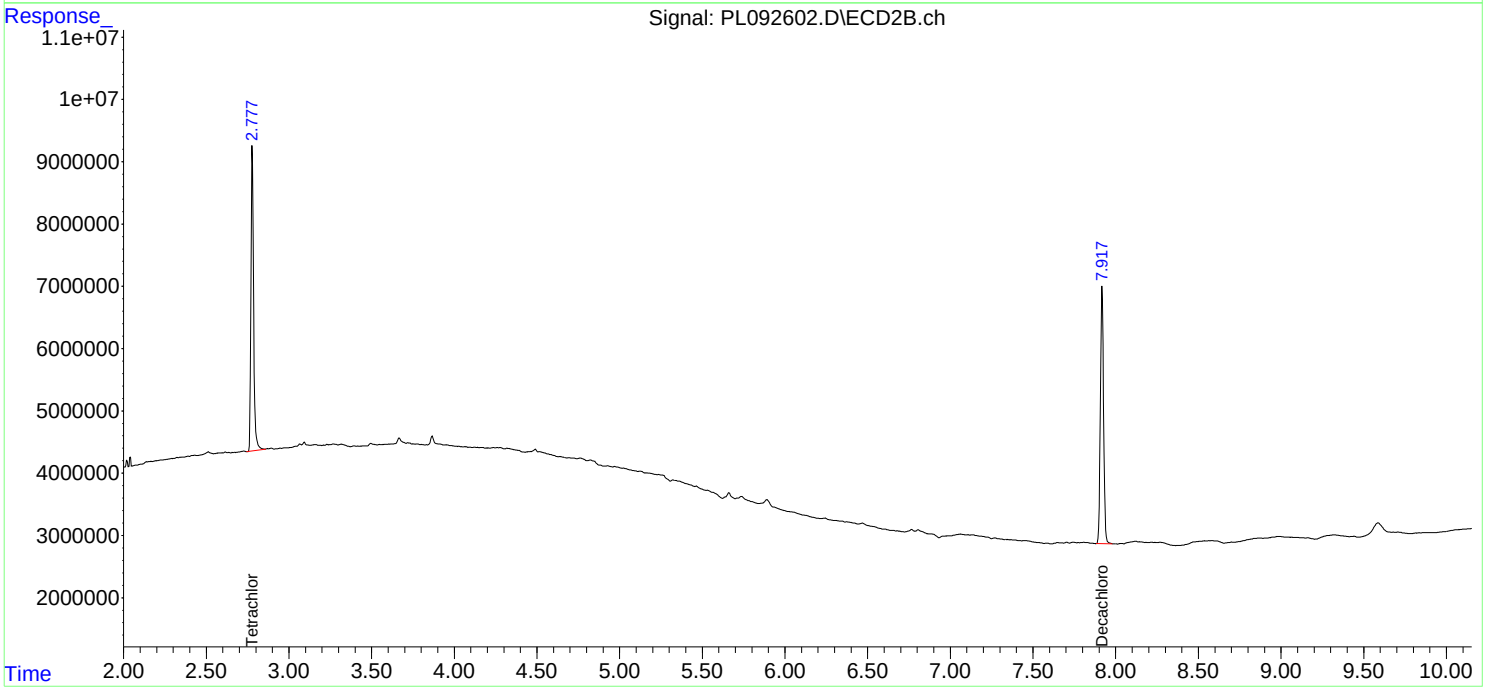
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102424\
Data File : PL092602.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 13:09
Operator : AR\AJ
Sample : PB164360BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

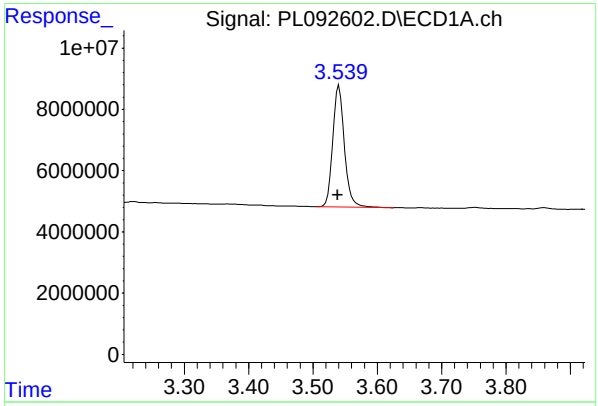
Instrument :
ECD_L
ClientSampleId :
PB164360BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:13:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 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



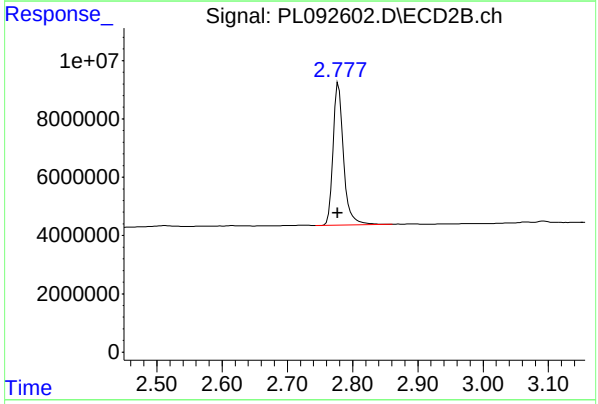




#1 Tetrachloro-m-xylene

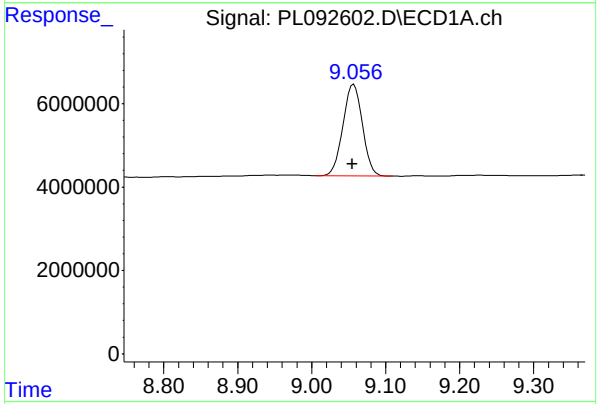
R.T.: 3.541 min
Delta R.T.: 0.003 min
Response: 50081230
Conc: 18.59 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB164360BL



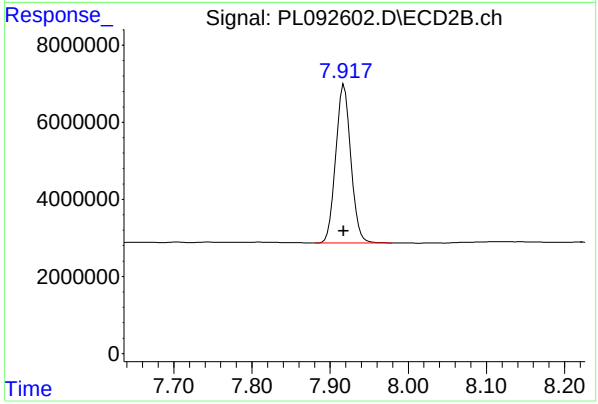
#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.002 min
Response: 54157855
Conc: 19.50 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.057 min
Delta R.T.: 0.002 min
Response: 40145227
Conc: 19.76 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.000 min
Response: 55397651
Conc: 21.02 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102624\
Data File : PL092642.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Oct 2024 17:35
Operator : AR\AJ
Sample : PB164360BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164360BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 22:41:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 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...	3.546	2.778	42313207	45159243	15.707	16.259m
28)	SA Decachlor...	9.064	7.921	35901416	51282928	17.675	19.462
	Target Compounds						
2)	A alpha-BHC	4.003	3.283	163.4E6	197.6E6	39.640	45.802
3)	MA gamma-BHC...	4.334	3.613	157.0E6	191.7E6	40.806m	46.542
4)	MA Heptachlor	4.923	3.952	145.6E6	191.5E6	41.058m	47.677
5)	MB Aldrin	5.264	4.232	143.4E6	184.9E6	38.975m	46.510
6)	B beta-BHC	4.533	3.913	69532257	83079755	44.792	47.584
7)	B delta-BHC	4.778	4.142	155.5E6	194.5E6	41.341m	46.230
8)	B Heptachlo...	5.692	4.735	135.2E6	172.3E6	40.702	48.894
9)	A Endosulfan I	6.078	5.105	122.6E6	157.1E6	40.594	49.370
10)	B gamma-Chl...	5.948	4.984	132.1E6	172.3E6	40.075	46.844
11)	B alpha-Chl...	6.027	5.049	130.4E6	170.1E6	40.035	47.855
12)	B 4,4'-DDE	6.200	5.238	117.7E6	166.7E6	39.697	47.942
13)	MA Dieldrin	6.352	5.369	129.8E6	173.0E6	39.918	47.327
14)	MA Endrin	6.582	5.645	109.0E6	151.8E6	38.589	46.361
15)	B Endosulfa...	6.801	5.940	115.7E6	147.4E6	40.874	47.142
16)	A 4,4'-DDD	6.717	5.793	99520319	133.1E6	41.193	47.919
17)	MA 4,4'-DDT	7.031	6.043	101.5E6	136.4E6	41.171	46.454
18)	B Endrin al...	6.931	6.119	92358191	117.8E6	43.237	47.941
19)	B Endosulfa...	7.166	6.341	107.0E6	140.0E6	42.336	47.372
20)	A Methoxychlor	7.505	6.618	55812964	73254812	47.391m	51.665
21)	B Endrin ke...	7.651	6.847	120.3E6	159.8E6	43.739	49.744
22)	Mirex	8.124	7.026	94719587	131.2E6	45.394	50.195m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

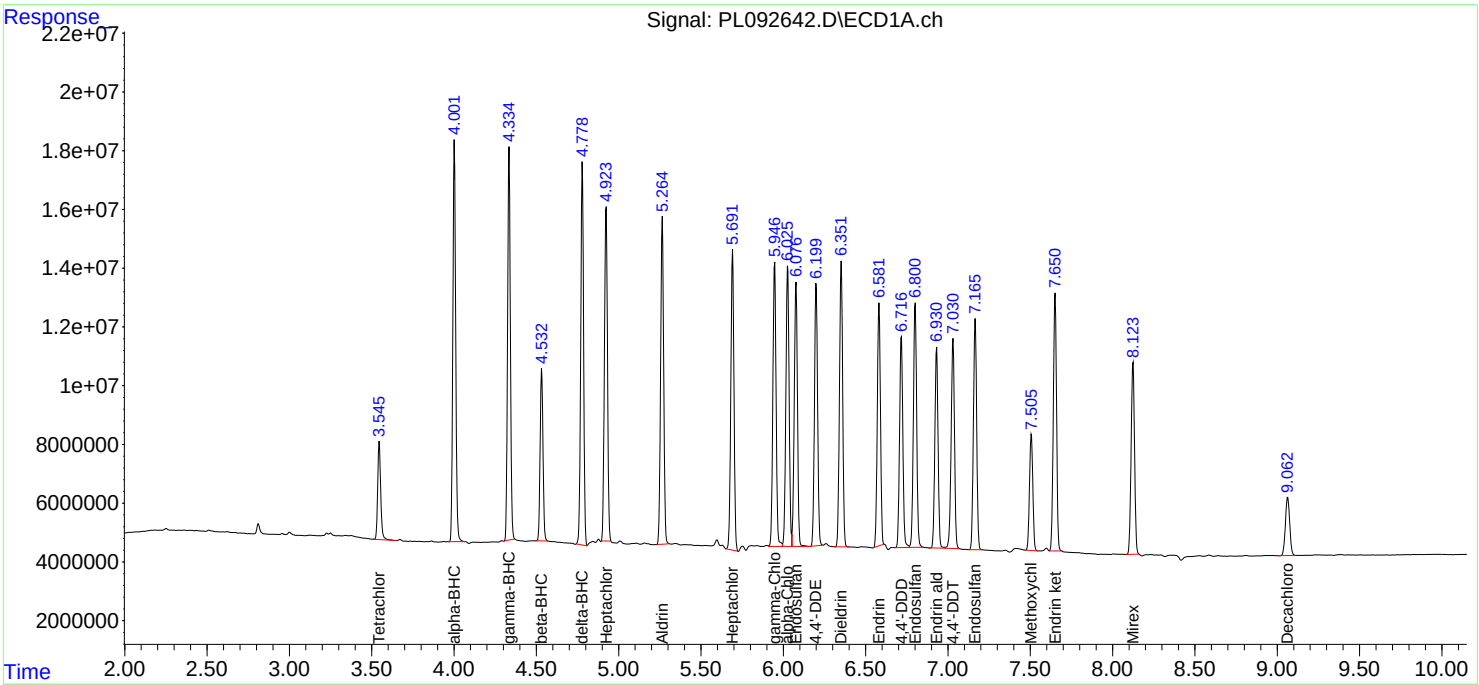
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102624\
Data File : PL092642.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Oct 2024 17:35
Operator : AR\AJ
Sample : PB164360BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

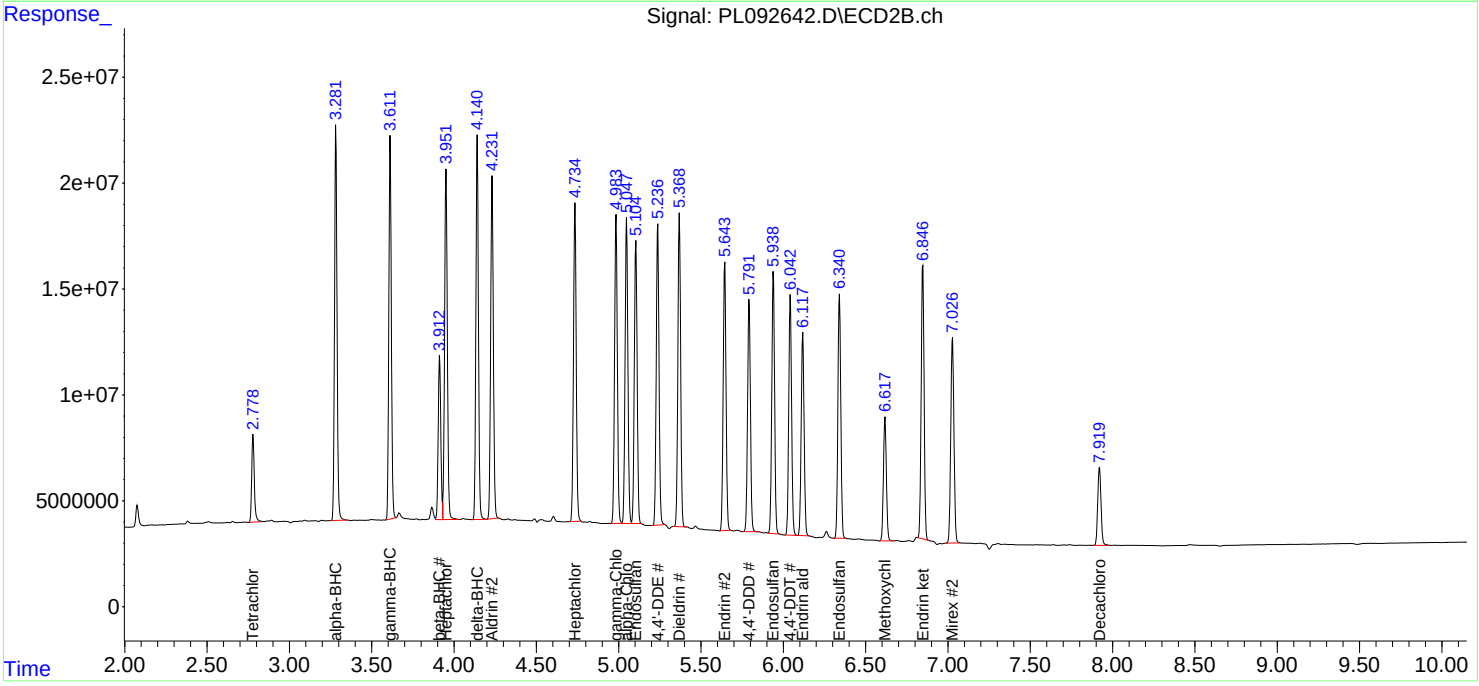
Instrument :
ECD_L
ClientSampleId :
PB164360BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 22:41:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 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\PL102424\
Data File : PL092606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 14:03
Operator : AR\AJ
Sample : P4397-06MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:17:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 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	2.780	42896519	45349975	15.924m	16.328
28)	SA Decachlor...	9.057	7.919	39343276	55163440	19.370	20.935
	Target Compounds						
2)	A alpha-BHC	3.997	3.282	172.7E6	208.5E6	41.907	48.311
3)	MA gamma-BHC...	4.328	3.612	159.0E6	197.1E6	41.326m	47.856
4)	MA Heptachlor	4.918	3.951	152.2E6	206.9E6	42.924	51.527
5)	MB Aldrin	5.260	4.231	146.6E6	186.8E6	39.838	46.987
6)	B beta-BHC	4.526	3.912	68938446	90653973	44.410m	51.922
7)	B delta-BHC	4.774	4.141	155.5E6	191.6E6	41.346	45.562
8)	B Heptachlo...	5.686	4.734	135.0E6	174.5E6	40.658	49.531
9)	A Endosulfan I	6.071	5.104	124.9E6	158.4E6	41.350	49.772
10)	B gamma-Chl...	5.940	4.984	138.2E6	180.6E6	41.930m	49.074
11)	B alpha-Chl...	6.021	5.047	133.0E6	175.3E6	40.834	49.315
12)	B 4,4'-DDE	6.194	5.237	118.1E6	170.2E6	39.825	48.943
13)	MA Dieldrin	6.347	5.368	131.1E6	180.9E6	40.309	49.495
14)	MA Endrin	6.576	5.643	112.4E6	156.9E6	39.792	47.918
15)	B Endosulfa...	6.796	5.938	118.7E6	149.1E6	41.930	47.677
16)	A 4,4'-DDD	6.712	5.791	99087476	130.2E6	41.014	46.872
17)	MA 4,4'-DDT	7.025	6.041	112.0E6	141.7E6	45.399	48.245
18)	B Endrin al...	6.926	6.117	89974134	111.6E6	42.121	45.443
19)	B Endosulfa...	7.161	6.340	105.9E6	138.3E6	41.919	46.766
20)	A Methoxychlor	7.501	6.616	57518533	73789922	48.839	52.043
21)	B Endrin ke...	7.645	6.846	118.8E6	155.2E6	43.207	48.322
22)	Mirex	8.119	7.026	90896784	122.8E6	43.562	46.978

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

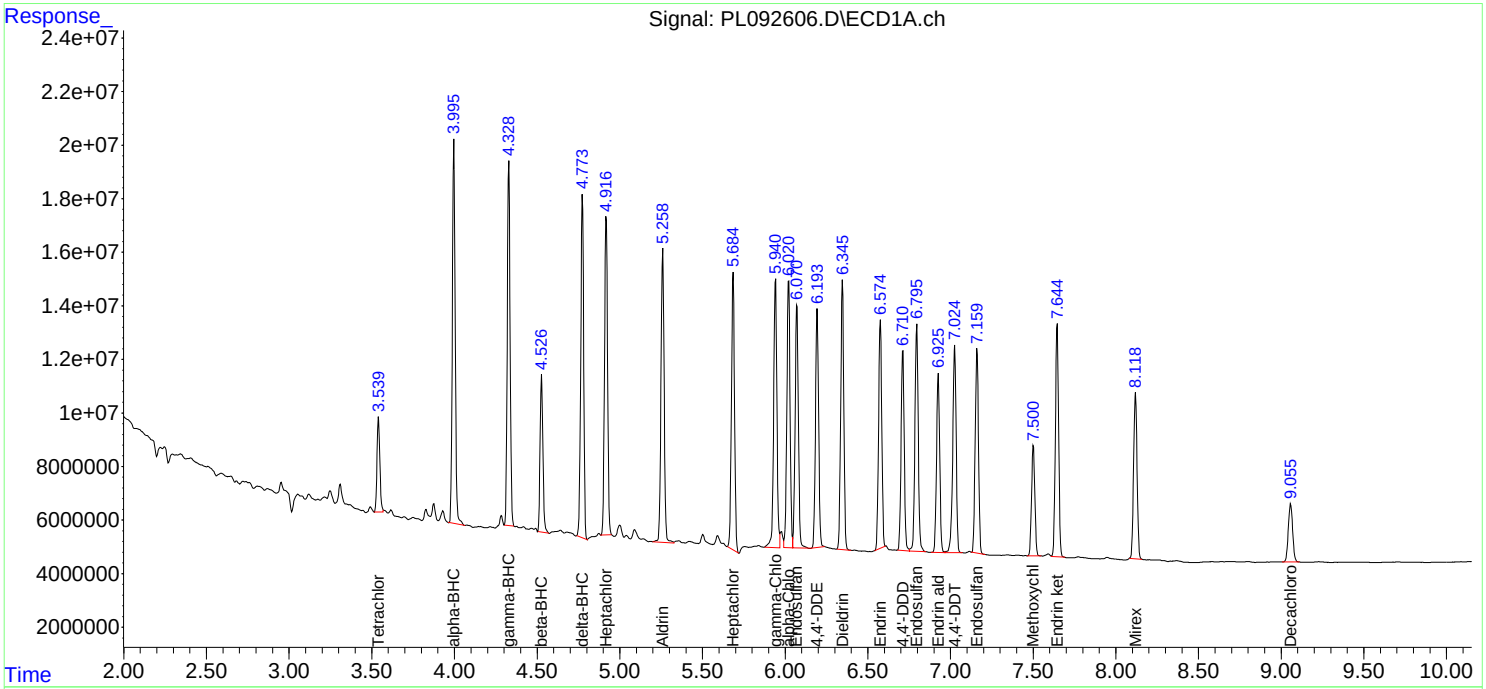
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102424\
Data File : PL092606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 14:03
Operator : AR\AJ
Sample : P4397-06MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

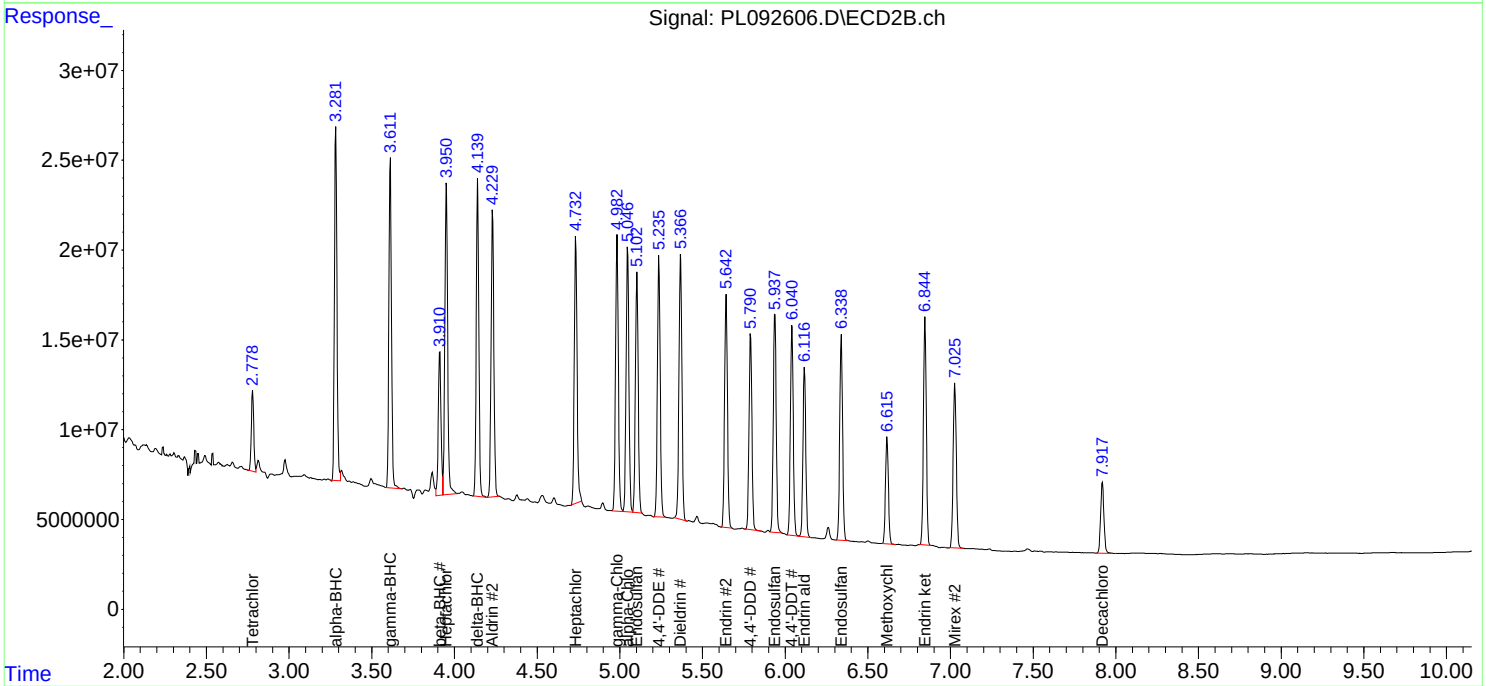
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:17:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
ECD_L
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102424\
Data File : PL092607.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 14:16
Operator : AR\AJ
Sample : P4397-06MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:17:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 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	44502504	45915392	16.520	16.532
28) SA	Decachlor...	9.058	7.918	40460370	57023058	19.920	21.641
	Target Compounds						
2) A	alpha-BHC	3.997	3.281	176.5E6	215.2E6	42.823	49.875m
3) MA	gamma-BHC...	4.328	3.611	162.0E6	202.6E6	42.105m	49.198
4) MA	Heptachlor	4.918	3.951	155.6E6	214.5E6	43.886	53.409
5) MB	Aldrin	5.260	4.231	150.3E6	192.8E6	40.859	48.499
6) B	beta-BHC	4.526	3.911	70343834	93182549	45.315m	53.371
7) B	delta-BHC	4.774	4.140	159.8E6	197.8E6	42.482	47.027
8) B	Heptachlo...	5.686	4.733	137.8E6	180.9E6	41.485	51.352
9) A	Endosulfan I	6.072	5.103	127.7E6	163.9E6	42.295	51.492
10) B	gamma-Chl...	5.941	4.983	142.8E6	186.4E6	43.325m	50.665
11) B	alpha-Chl...	6.021	5.047	136.3E6	181.5E6	41.841	51.074
12) B	4,4'-DDE	6.194	5.236	120.9E6	176.3E6	40.758	50.694
13) MA	Dieldrin	6.347	5.368	135.2E6	187.8E6	41.572	51.383
14) MA	Endrin	6.576	5.643	114.4E6	163.4E6	40.519	49.888
15) B	Endosulfa...	6.796	5.938	122.4E6	154.1E6	43.248	49.291
16) A	4,4'-DDD	6.712	5.791	101.7E6	135.5E6	42.106	48.782
17) MA	4,4'-DDT	7.025	6.042	112.8E6	147.9E6	45.756	50.353
18) B	Endrin al...	6.926	6.117	90868430	115.5E6	42.540	46.997
19) B	Endosulfa...	7.161	6.340	109.1E6	143.1E6	43.177	48.408
20) A	Methoxychlor	7.501	6.616	58538142	75742306	49.705	53.420
21) B	Endrin ke...	7.646	6.845	122.2E6	160.1E6	44.441	49.840
22)	Mirex	8.119	7.026	92627010	126.5E6	44.391	48.401

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

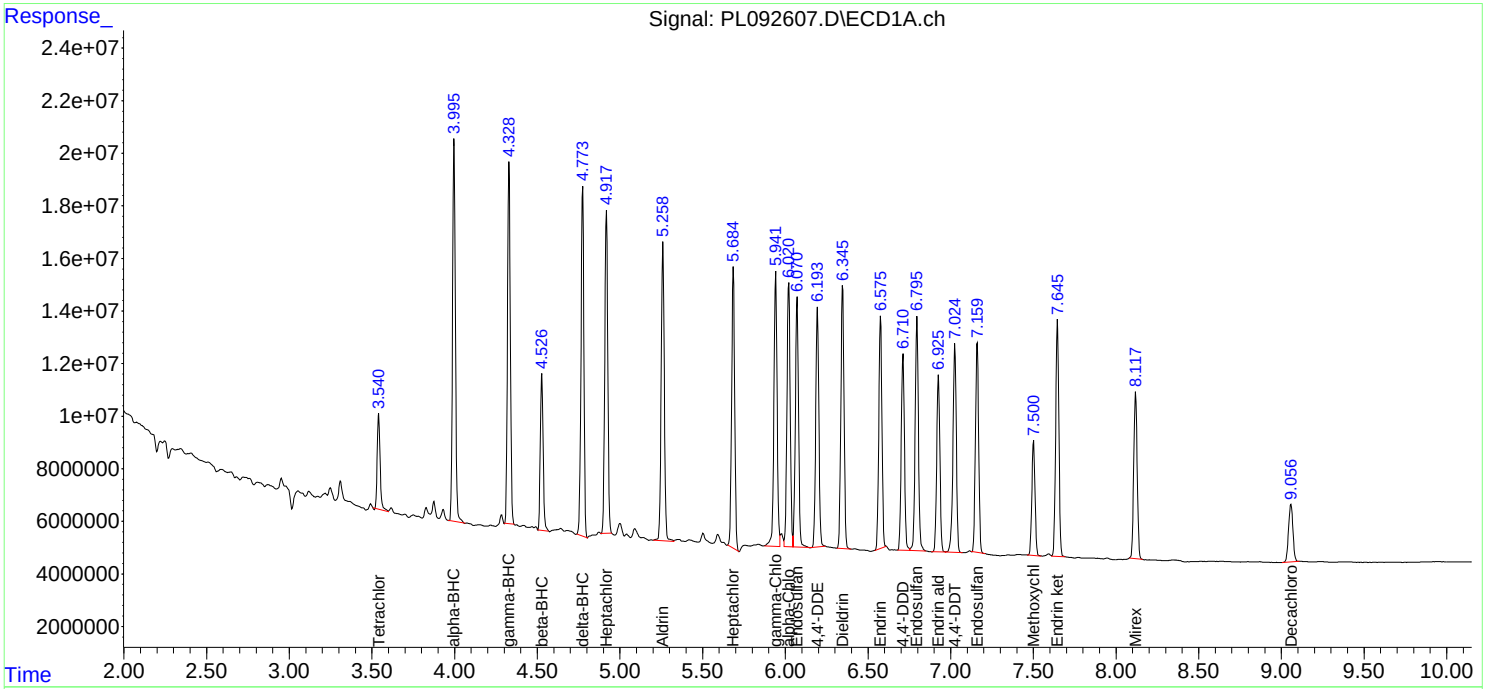
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102424\
Data File : PL092607.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 14:16
Operator : AR\AJ
Sample : P4397-06MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

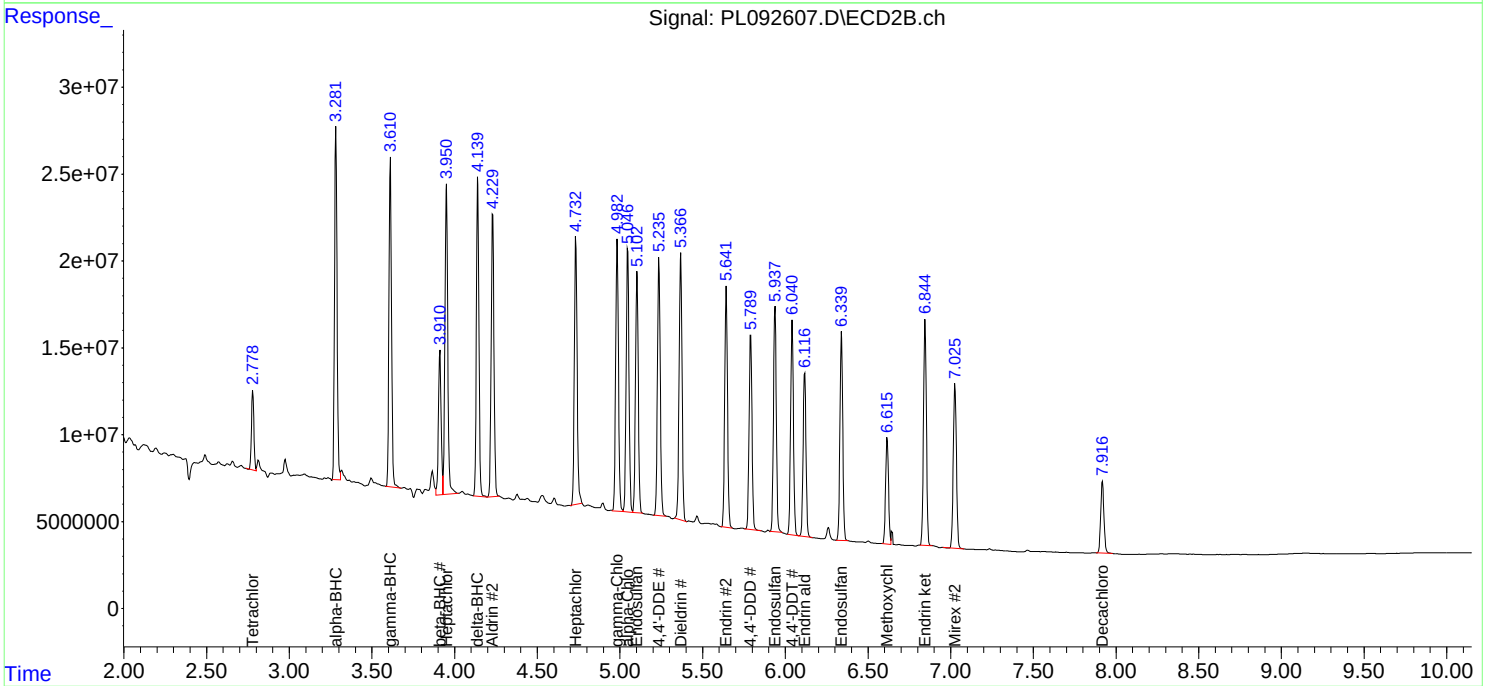
Instrument :
ECD_L
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:17:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102124.M
Quant Title : GC Extractables
QLast Update : Mon Oct 21 17:09:23 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





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

Manual Integration Report

Sequence:	PL102124	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL092495.D	4,4"-DDD	Abdul	10/22/2024 8:45:34 AM	Ankita	10/22/2024 9:02:10	Peak Integrated by Software
PEM	PL092495.D	4,4"-DDD #2	Abdul	10/22/2024 8:45:34 AM	Ankita	10/22/2024 9:02:10	Peak Integrated by Software
PEM	PL092495.D	Endrin aldehyde	Abdul	10/22/2024 8:45:34 AM	Ankita	10/22/2024 9:02:10	Peak Integrated by Software
PEM	PL092495.D	Endrin ketone #2	Abdul	10/22/2024 8:45:34 AM	Ankita	10/22/2024 9:02:10	Peak Integrated by Software
PSTDICC025	PL092500.D	Heptachlor epoxide	Abdul	10/22/2024 8:45:38 AM	Ankita	10/22/2024 9:02:12	Peak Integrated by Software
PSTDICC005	PL092501.D	alpha-Chlordane	Abdul	10/22/2024 8:45:42 AM	Ankita	10/22/2024 9:02:15	Peak Integrated by Software
PSTDICC005	PL092501.D	delta-BHC	Abdul	10/22/2024 8:45:42 AM	Ankita	10/22/2024 9:02:15	Peak Integrated by Software
PSTDICC005	PL092501.D	Endosulfan I	Abdul	10/22/2024 8:45:42 AM	Ankita	10/22/2024 9:02:15	Peak Integrated by Software
PSTDICC005	PL092501.D	Endosulfan II	Abdul	10/22/2024 8:45:42 AM	Ankita	10/22/2024 9:02:15	Peak Integrated by Software
PSTDICC005	PL092501.D	Endrin	Abdul	10/22/2024 8:45:42 AM	Ankita	10/22/2024 9:02:15	Peak Integrated by Software
PSTDICC005	PL092501.D	Endrin #2	Abdul	10/22/2024 8:45:42 AM	Ankita	10/22/2024 9:02:15	Peak Integrated by Software
PSTDICC005	PL092501.D	Endrin ketone	Abdul	10/22/2024 8:45:42 AM	Ankita	10/22/2024 9:02:15	Peak Integrated by Software
PSTDICC005	PL092501.D	gamma-BHC (Lindane) #2	Abdul	10/22/2024 8:45:42 AM	Ankita	10/22/2024 9:02:15	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PL102124	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDICC005	PL092501.D	gamma-Chlordane	Abdul	10/22/2024 8:45:42 AM	Ankita	10/22/2024 9:02:15	Peak Integrated by Software
PSTDICC005	PL092501.D	Heptachlor epoxide	Abdul	10/22/2024 8:45:42 AM	Ankita	10/22/2024 9:02:15	Peak Integrated by Software
PSTDICC005	PL092501.D	Mirex #2	Abdul	10/22/2024 8:45:42 AM	Ankita	10/22/2024 9:02:15	Peak Integrated by Software
PSTDICV050	PL092512.D	delta-BHC	Abdul	10/22/2024 8:46:09 AM	Ankita	10/22/2024 9:02:28	Peak Integrated by Software
PSTDICV050	PL092512.D	Heptachlor epoxide	Abdul	10/22/2024 8:46:09 AM	Ankita	10/22/2024 9:02:28	Peak Integrated by Software
PSTDICV050	PL092512.D	Mirex #2	Abdul	10/22/2024 8:46:09 AM	Ankita	10/22/2024 9:02:28	Peak Integrated by Software
PCHLORICV500	PL092513.D	Chlordane-5	Abdul	10/22/2024 8:46:13 AM	Ankita	10/22/2024 9:02:30	Peak Integrated by Software
I.BLK	PL092515.D	Tetrachloro-m-xylene #2	Abdul	10/22/2024 8:46:19 AM	Ankita	10/22/2024 9:02:32	Peak Integrated by Software
PEM	PL092516.D	4,4"-DDE	Abdul	10/22/2024 8:46:24 AM	Ankita	10/22/2024 9:02:34	Peak Integrated by Software
PEM	PL092516.D	alpha-BHC	Abdul	10/22/2024 8:46:24 AM	Ankita	10/22/2024 9:02:34	Peak Integrated by Software
PEM	PL092516.D	Endrin aldehyde	Abdul	10/22/2024 8:46:24 AM	Ankita	10/22/2024 9:02:34	Peak Integrated by Software
PEM	PL092516.D	Endrin ketone #2	Abdul	10/22/2024 8:46:24 AM	Ankita	10/22/2024 9:02:34	Peak Integrated by Software
PEM	PL092516.D	gamma-BHC (Lindane) #2	Abdul	10/22/2024 8:46:24 AM	Ankita	10/22/2024 9:02:34	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PL102124	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL092517.D	delta-BHC	Abdul	10/22/2024 8:46:28 AM	Ankita	10/22/2024 9:02:36	Peak Integrated by Software
PSTDCCC050	PL092517.D	Endosulfan II #2	Abdul	10/22/2024 8:46:28 AM	Ankita	10/22/2024 9:02:36	Peak Integrated by Software
PSTDCCC050	PL092517.D	Heptachlor epoxide	Abdul	10/22/2024 8:46:28 AM	Ankita	10/22/2024 9:02:36	Peak Integrated by Software
PSTDCCC050	PL092517.D	Mirex #2	Abdul	10/22/2024 8:46:28 AM	Ankita	10/22/2024 9:02:36	Peak Integrated by Software
I.BLK	PL092523.D	Tetrachloro-m-xylene #2	Abdul	10/22/2024 8:47:06 AM	Ankita	10/22/2024 9:02:44	Peak Integrated by Software
PSTDCCC050	PL092524.D	delta-BHC	Abdul	10/22/2024 8:47:10 AM	Ankita	10/22/2024 9:02:48	Peak Integrated by Software
PSTDCCC050	PL092524.D	Heptachlor epoxide	Abdul	10/22/2024 8:47:10 AM	Ankita	10/22/2024 9:02:48	Peak Integrated by Software
I.BLK	PL092528.D	Decachlorobiphenyl	Abdul	10/22/2024 8:47:27 AM	Ankita	10/22/2024 9:02:56	Peak Integrated by Software
I.BLK	PL092528.D	Tetrachloro-m-xylene #2	Abdul	10/22/2024 8:47:27 AM	Ankita	10/22/2024 9:02:56	Peak Integrated by Software
PSTDCCC050	PL092529.D	Aldrin	Abdul	10/22/2024 8:47:30 AM	Ankita	10/22/2024 9:02:58	Peak Integrated by Software
PSTDCCC050	PL092529.D	delta-BHC	Abdul	10/22/2024 8:47:30 AM	Ankita	10/22/2024 9:02:58	Peak Integrated by Software
PSTDCCC050	PL092529.D	Endrin	Abdul	10/22/2024 8:47:30 AM	Ankita	10/22/2024 9:02:58	Peak Integrated by Software
PSTDCCC050	PL092529.D	Heptachlor epoxide	Abdul	10/22/2024 8:47:30 AM	Ankita	10/22/2024 9:02:58	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PL102124	Instrument	ECD_I

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:	PL102424	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL092590.D	4,4"-DDD #2	Abdul	10/25/2024 3:24:07 PM	Ankita	10/28/2024 10:34:14	Peak Integrated by Software
PEM	PL092590.D	Endrin ketone #2	Abdul	10/25/2024 3:24:07 PM	Ankita	10/28/2024 10:34:14	Peak Integrated by Software
PSTDCCC050	PL092591.D	Endrin ketone #2	Abdul	10/25/2024 3:24:10 PM	Ankita	10/28/2024 10:34:16	Peak Integrated by Software
PSTDCCC050	PL092591.D	Heptachlor epoxide	Abdul	10/25/2024 3:24:10 PM	Ankita	10/28/2024 10:34:16	Peak Integrated by Software
P4397-06	PL092605.D	Tetrachloro-m-xylene	Abdul	10/25/2024 3:24:50 PM	Ankita	10/28/2024 10:34:57	Peak Integrated by Software
P4397-06	PL092605.D	Tetrachloro-m-xylene #2	Abdul	10/25/2024 3:24:50 PM	Ankita	10/28/2024 10:34:57	Peak Integrated by Software
P4397-06MS	PL092606.D	beta-BHC	Abdul	10/25/2024 3:24:53 PM	Ankita	10/28/2024 10:34:59	Peak Integrated by Software
P4397-06MS	PL092606.D	gamma-BHC (Lindane)	Abdul	10/25/2024 3:24:53 PM	Ankita	10/28/2024 10:34:59	Peak Integrated by Software
P4397-06MS	PL092606.D	gamma-Chlordane	Abdul	10/25/2024 3:24:53 PM	Ankita	10/28/2024 10:34:59	Peak Integrated by Software
P4397-06MS	PL092606.D	Tetrachloro-m-xylene	Abdul	10/25/2024 3:24:53 PM	Ankita	10/28/2024 10:34:59	Peak Integrated by Software
P4397-06MSD	PL092607.D	alpha-BHC #2	Abdul	10/25/2024 3:24:56 PM	Ankita	10/28/2024 10:35:04	Peak Integrated by Software
P4397-06MSD	PL092607.D	beta-BHC	Abdul	10/25/2024 3:24:56 PM	Ankita	10/28/2024 10:35:04	Peak Integrated by Software
P4397-06MSD	PL092607.D	gamma-BHC (Lindane)	Abdul	10/25/2024 3:24:56 PM	Ankita	10/28/2024 10:35:04	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL102424	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4397-06MSD	PL092607.D	gamma-Chlordane	Abdul	10/25/2024 3:24:56 PM	Ankita	10/28/2024 10:35:04	Peak Integrated by Software
I.BLK	PL092612.D	Decachlorobiphenyl	Abdul	10/28/2024 9:17:04 AM	Ankita	10/28/2024 10:35:12	Peak Integrated by Software
I.BLK	PL092612.D	Tetrachloro-m-xylene #2	Abdul	10/28/2024 9:17:04 AM	Ankita	10/28/2024 10:35:12	Peak Integrated by Software
PSTDCCC050	PL092613.D	Aldrin	Abdul	10/25/2024 3:25:15 PM	Ankita	10/28/2024 10:35:14	Peak Integrated by Software
PSTDCCC050	PL092613.D	Decachlorobiphenyl	Abdul	10/25/2024 3:25:15 PM	Ankita	10/28/2024 10:35:14	Peak Integrated by Software
PSTDCCC050	PL092613.D	Dieldrin	Abdul	10/25/2024 3:25:15 PM	Ankita	10/28/2024 10:35:14	Peak Integrated by Software
PSTDCCC050	PL092613.D	Endosulfan II #2	Abdul	10/25/2024 3:25:15 PM	Ankita	10/28/2024 10:35:14	Peak Integrated by Software
PSTDCCC050	PL092613.D	Endrin ketone #2	Abdul	10/25/2024 3:25:15 PM	Ankita	10/28/2024 10:35:14	Peak Integrated by Software
PSTDCCC050	PL092613.D	Heptachlor	Abdul	10/25/2024 3:25:15 PM	Ankita	10/28/2024 10:35:14	Peak Integrated by Software
PSTDCCC050	PL092613.D	Heptachlor epoxide	Abdul	10/25/2024 3:25:15 PM	Ankita	10/28/2024 10:35:14	Peak Integrated by Software
I.BLK	PL092622.D	Tetrachloro-m-xylene #2	Abdul	10/28/2024 9:17:07 AM	Ankita	10/28/2024 10:35:28	Peak Integrated by Software
PSTDCCC050	PL092623.D	Heptachlor	Abdul	10/25/2024 3:25:52 PM	Ankita	10/28/2024 10:35:30	Peak Integrated by Software
PSTDCCC050	PL092623.D	Mirex #2	Abdul	10/25/2024 3:25:52 PM	Ankita	10/28/2024 10:35:30	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL102424	Instrument	ECD_I

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:	PL102624	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PL092637.D	Tetrachloro-m-xylene	Abdul	10/28/2024 9:29:49 AM	Ankita	10/28/2024 10:45:41	Peak Integrated by Software
I.BLK	PL092637.D	Tetrachloro-m-xylene #2	Abdul	10/28/2024 9:29:49 AM	Ankita	10/28/2024 10:45:41	Peak Integrated by Software
PEM	PL092638.D	4,4"-DDE	Abdul	10/28/2024 9:29:52 AM	Ankita	10/28/2024 10:45:44	Peak Integrated by Software
PEM	PL092638.D	4,4"-DDE #2	Abdul	10/28/2024 9:29:52 AM	Ankita	10/28/2024 10:45:44	Peak Integrated by Software
PEM	PL092638.D	Endrin	Abdul	10/28/2024 9:29:52 AM	Ankita	10/28/2024 10:45:44	Peak Integrated by Software
PSTDCCC050	PL092639.D	4,4"-DDD #2	Abdul	10/28/2024 9:29:57 AM	Ankita	10/28/2024 10:45:46	Peak Integrated by Software
PSTDCCC050	PL092639.D	Aldrin	Abdul	10/28/2024 9:29:57 AM	Ankita	10/28/2024 10:45:46	Peak Integrated by Software
PSTDCCC050	PL092639.D	Endosulfan II #2	Abdul	10/28/2024 9:29:57 AM	Ankita	10/28/2024 10:45:46	Peak Integrated by Software
PSTDCCC050	PL092639.D	Heptachlor	Abdul	10/28/2024 9:29:57 AM	Ankita	10/28/2024 10:45:46	Peak Integrated by Software
PSTDCCC050	PL092639.D	Heptachlor epoxide	Abdul	10/28/2024 9:29:57 AM	Ankita	10/28/2024 10:45:46	Peak Integrated by Software
PSTDCCC050	PL092639.D	Methoxychlor	Abdul	10/28/2024 9:29:57 AM	Ankita	10/28/2024 10:45:46	Peak Integrated by Software
PB164360BS	PL092642.D	Aldrin	Abdul	10/28/2024 9:30:09 AM	Ankita	10/28/2024 10:45:51	Peak Integrated by Software
PB164360BS	PL092642.D	delta-BHC	Abdul	10/28/2024 9:30:09 AM	Ankita	10/28/2024 10:45:51	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL102624	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164360BS	PL092642.D	gamma-BHC (Lindane)	Abdul	10/28/2024 9:30:09 AM	Ankita	10/28/2024 10:45:51	Peak Integrated by Software
PB164360BS	PL092642.D	Heptachlor	Abdul	10/28/2024 9:30:09 AM	Ankita	10/28/2024 10:45:51	Peak Integrated by Software
PB164360BS	PL092642.D	Methoxychlor	Abdul	10/28/2024 9:30:09 AM	Ankita	10/28/2024 10:45:51	Peak Integrated by Software
PB164360BS	PL092642.D	Mirex #2	Abdul	10/28/2024 9:30:09 AM	Ankita	10/28/2024 10:45:51	Peak Integrated by Software
PB164360BS	PL092642.D	Tetrachloro-m-xylene #2	Abdul	10/28/2024 9:30:09 AM	Ankita	10/28/2024 10:45:51	Peak Integrated by Software
I.BLK	PL092649.D	Tetrachloro-m-xylene	Abdul	10/28/2024 9:30:40 AM	Ankita	10/28/2024 10:46:13	Peak Integrated by Software
I.BLK	PL092649.D	Tetrachloro-m-xylene #2	Abdul	10/28/2024 9:30:40 AM	Ankita	10/28/2024 10:46:13	Peak Integrated by Software
PSTDCCC050	PL092650.D	Aldrin	Abdul	10/28/2024 9:30:44 AM	Ankita	10/28/2024 10:46:17	Peak Integrated by Software
PSTDCCC050	PL092650.D	Endosulfan II #2	Abdul	10/28/2024 9:30:44 AM	Ankita	10/28/2024 10:46:17	Peak Integrated by Software
PSTDCCC050	PL092650.D	Endrin ketone #2	Abdul	10/28/2024 9:30:44 AM	Ankita	10/28/2024 10:46:17	Peak Integrated by Software

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102124

Review By	Abdul	Review On	10/22/2024 8:47:55 AM		
Supervise By	Ankita	Supervise On	10/22/2024 9:03:18 AM		
SubDirectory	PL102124	HP Acquire Method		HP Processing Method	pl102124 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23282,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	PL092493.D	21 Oct 2024 12:06	AR\AJ	Ok
2	I.BLK	PL092494.D	21 Oct 2024 12:19	AR\AJ	Ok
3	PEM	PL092495.D	21 Oct 2024 12:33	AR\AJ	Ok,M
4	RESCHK	PL092496.D	21 Oct 2024 12:46	AR\AJ	Ok
5	PSTDICC100	PL092497.D	21 Oct 2024 13:00	AR\AJ	Ok
6	PSTDICC075	PL092498.D	21 Oct 2024 13:13	AR\AJ	Ok
7	PSTDICC050	PL092499.D	21 Oct 2024 13:26	AR\AJ	Ok
8	PSTDICC025	PL092500.D	21 Oct 2024 13:40	AR\AJ	Ok,M
9	PSTDICC005	PL092501.D	21 Oct 2024 13:53	AR\AJ	Ok,M
10	PCHLORICC1000	PL092502.D	21 Oct 2024 14:07	AR\AJ	Ok
11	PCHLORICC750	PL092503.D	21 Oct 2024 14:20	AR\AJ	Ok
12	PCHLORICC500	PL092504.D	21 Oct 2024 14:33	AR\AJ	Ok
13	PCHLORICC250	PL092505.D	21 Oct 2024 14:47	AR\AJ	Ok,M
14	PCHLORICC050	PL092506.D	21 Oct 2024 15:00	AR\AJ	Ok,M
15	PTOXICC1000	PL092507.D	21 Oct 2024 15:14	AR\AJ	Ok,M
16	PTOXICC750	PL092508.D	21 Oct 2024 15:27	AR\AJ	Ok,M
17	PTOXICC500	PL092509.D	21 Oct 2024 15:40	AR\AJ	Ok
18	PTOXICC250	PL092510.D	21 Oct 2024 15:54	AR\AJ	Ok,M
19	PTOXICC100	PL092511.D	21 Oct 2024 16:07	AR\AJ	Ok,M
20	PSTDICV050	PL092512.D	21 Oct 2024 16:21	AR\AJ	Ok,M
21	PCHLORICV500	PL092513.D	21 Oct 2024 16:34	AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102124

Review By	Abdul	Review On	10/22/2024 8:47:55 AM		
Supervise By	Ankita	Supervise On	10/22/2024 9:03:18 AM		
SubDirectory	PL102124	HP Acquire Method		HP Processing Method	pl102124 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23282,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	PL092514.D	21 Oct 2024 18:08	AR\AJ	Ok
23	I.BLK	PL092515.D	21 Oct 2024 18:41	AR\AJ	Ok,M
24	PEM	PL092516.D	21 Oct 2024 18:54	AR\AJ	Ok,M
25	PSTDCCC050	PL092517.D	21 Oct 2024 19:08	AR\AJ	Ok,M
26	PB164288BL	PL092518.D	21 Oct 2024 19:21	AR\AJ	Ok
27	PB164288BS	PL092519.D	21 Oct 2024 19:34	AR\AJ	Ok,M
28	P4455-01	PL092520.D	21 Oct 2024 19:48	AR\AJ	Ok,M
29	P4443-01	PL092521.D	21 Oct 2024 20:01	AR\AJ	Ok,M
30	P4443-06	PL092522.D	21 Oct 2024 20:15	AR\AJ	Ok,M
31	I.BLK	PL092523.D	21 Oct 2024 20:28	AR\AJ	Ok,M
32	PSTDCCC050	PL092524.D	21 Oct 2024 20:42	AR\AJ	Ok,M
33	P4458-01	PL092525.D	21 Oct 2024 20:55	AR\AJ	Ok,M
34	P4458-01MS	PL092526.D	21 Oct 2024 21:08	AR\AJ	Ok,M
35	P4458-01MSD	PL092527.D	21 Oct 2024 21:22	AR\AJ	Ok,M
36	I.BLK	PL092528.D	21 Oct 2024 21:35	AR\AJ	Ok,M
37	PSTDCCC050	PL092529.D	21 Oct 2024 21:49	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102424

Review By	Abdul	Review On	10/25/2024 3:26:14 PM		
Supervise By	Ankita	Supervise On	10/28/2024 10:35:47 AM		
SubDirectory	PL102424	HP Acquire Method		HP Processing Method	pl102124 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	PL092588.D	24 Oct 2024 09:39	AR\AJ	Ok
2	I.BLK	PL092589.D	24 Oct 2024 09:53	AR\AJ	Ok
3	PEM	PL092590.D	24 Oct 2024 10:06	AR\AJ	Ok,M
4	PSTDCCC050	PL092591.D	24 Oct 2024 10:19	AR\AJ	Ok,M
5	P4467-01	PL092592.D	24 Oct 2024 10:55	AR\AJ	Ok,M
6	P4470-01	PL092593.D	24 Oct 2024 11:08	AR\AJ	Ok,M
7	P4472-01	PL092594.D	24 Oct 2024 11:22	AR\AJ	Ok,M
8	P4472-01MS	PL092595.D	24 Oct 2024 11:35	AR\AJ	Ok,M
9	P4472-01MSD	PL092596.D	24 Oct 2024 11:49	AR\AJ	Ok,M
10	P4472-05	PL092597.D	24 Oct 2024 12:02	AR\AJ	Ok,M
11	P4487-01	PL092598.D	24 Oct 2024 12:15	AR\AJ	Ok,M
12	P4487-05	PL092599.D	24 Oct 2024 12:29	AR\AJ	Ok,M
13	P4487-05MS	PL092600.D	24 Oct 2024 12:42	AR\AJ	Ok,M
14	P4487-05MSD	PL092601.D	24 Oct 2024 12:56	AR\AJ	Ok,M
15	PB164360BL	PL092602.D	24 Oct 2024 13:09	AR\AJ	Ok
16	PB164360BS	PL092603.D	24 Oct 2024 13:22	AR\AJ	Not Ok
17	PB164261TB	PL092604.D	24 Oct 2024 13:36	AR\AJ	Ok
18	P4397-06	PL092605.D	24 Oct 2024 13:49	AR\AJ	Ok,M
19	P4397-06MS	PL092606.D	24 Oct 2024 14:03	AR\AJ	Ok,M
20	P4397-06MSD	PL092607.D	24 Oct 2024 14:16	AR\AJ	Ok,M
21	P4460-04	PL092608.D	24 Oct 2024 14:30	AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102424

Review By	Abdul	Review On	10/25/2024 3:26:14 PM		
Supervise By	Ankita	Supervise On	10/28/2024 10:35:47 AM		
SubDirectory	PL102424	HP Acquire Method		HP Processing Method	pl102124 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	P4486-01	PL092609.D	24 Oct 2024 16:04	AR\AJ	Ok,M
23	PB164365BS	PL092610.D	24 Oct 2024 16:17	AR\AJ	Ok,M
24	PB164365BL	PL092611.D	24 Oct 2024 16:35	AR\AJ	Ok,M
25	I.BLK	PL092612.D	24 Oct 2024 16:48	AR\AJ	Ok,M
26	PSTDCCC050	PL092613.D	24 Oct 2024 17:20	AR\AJ	Ok,M
27	PB164360BS	PL092614.D	24 Oct 2024 17:38	AR\AJ	Not Ok
28	P4508-01	PL092615.D	24 Oct 2024 17:52	AR\AJ	Ok,M
29	P4508-05	PL092616.D	24 Oct 2024 18:05	AR\AJ	Ok,M
30	P4508-09	PL092617.D	24 Oct 2024 18:19	AR\AJ	Ok,M
31	P4508-09MS	PL092618.D	24 Oct 2024 18:32	AR\AJ	Ok,M
32	P4508-09MSD	PL092619.D	24 Oct 2024 18:46	AR\AJ	Ok,M
33	P4509-01	PL092620.D	24 Oct 2024 18:59	AR\AJ	Ok,M
34	P4512-03	PL092621.D	24 Oct 2024 19:12	AR\AJ	Ok,M
35	I.BLK	PL092622.D	24 Oct 2024 19:26	AR\AJ	Ok,M
36	PSTDCCC050	PL092623.D	24 Oct 2024 19:39	AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102624

Review By	Abdul	Review On	10/28/2024 9:31:07 AM		
Supervise By	Ankita	Supervise On	10/28/2024 10:46:33 AM		
SubDirectory	PL102624	HP Acquire Method		HP Processing Method	pl102124 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	PL092636.D	25 Oct 2024 14:55	AR\AJ	Ok
2	I.BLK	PL092637.D	25 Oct 2024 15:08	AR\AJ	Ok,M
3	PEM	PL092638.D	25 Oct 2024 15:22	AR\AJ	Ok,M
4	PSTDCCC050	PL092639.D	25 Oct 2024 15:49	AR\AJ	Ok,M
5	PB164398BL	PL092640.D	25 Oct 2024 16:46	AR\AJ	Ok,M
6	PB164398BS	PL092641.D	25 Oct 2024 16:59	AR\AJ	Ok,M
7	PB164360BS	PL092642.D	25 Oct 2024 17:35	AR\AJ	Ok,M
8	P4531-01	PL092643.D	25 Oct 2024 17:49	AR\AJ	Ok,M
9	P4547-01	PL092644.D	25 Oct 2024 18:02	AR\AJ	Ok,M
10	P4545-01	PL092645.D	25 Oct 2024 18:15	AR\AJ	ReRun
11	P4547-05	PL092646.D	25 Oct 2024 18:29	AR\AJ	Ok,M
12	P4547-05MS	PL092647.D	25 Oct 2024 18:42	AR\AJ	Ok,M
13	P4547-05MSD	PL092648.D	25 Oct 2024 18:56	AR\AJ	Ok,M
14	I.BLK	PL092649.D	25 Oct 2024 19:09	AR\AJ	Ok,M
15	PSTDCCC050	PL092650.D	25 Oct 2024 19:49	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 # PL102124

Review By	Abdul	Review On	10/22/2024 8:47:55 AM		
Supervise By	Ankita	Supervise On	10/22/2024 9:03:18 AM		
SubDirectory	PL102124	HP Acquire Method		HP Processing Method	pl102124 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23282,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	PL092493.D	21 Oct 2024 12:06		AR\AJ	Ok
2	I.BLK	I.BLK	PL092494.D	21 Oct 2024 12:19		AR\AJ	Ok
3	PEM	PEM	PL092495.D	21 Oct 2024 12:33		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL092496.D	21 Oct 2024 12:46		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PL092497.D	21 Oct 2024 13:00		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL092498.D	21 Oct 2024 13:13		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL092499.D	21 Oct 2024 13:26		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL092500.D	21 Oct 2024 13:40		AR\AJ	Ok,M
9	PSTDICC005	PSTDICC005	PL092501.D	21 Oct 2024 13:53		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL092502.D	21 Oct 2024 14:07		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL092503.D	21 Oct 2024 14:20		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL092504.D	21 Oct 2024 14:33		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL092505.D	21 Oct 2024 14:47		AR\AJ	Ok,M
14	PCHLORICC050	PCHLORICC050	PL092506.D	21 Oct 2024 15:00		AR\AJ	Ok,M
15	PTOXICC1000	PTOXICC1000	PL092507.D	21 Oct 2024 15:14		AR\AJ	Ok,M
16	PTOXICC750	PTOXICC750	PL092508.D	21 Oct 2024 15:27		AR\AJ	Ok,M
17	PTOXICC500	PTOXICC500	PL092509.D	21 Oct 2024 15:40		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL092510.D	21 Oct 2024 15:54		AR\AJ	Ok,M

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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 # PL102124

Review By	Abdul	Review On	10/22/2024 8:47:55 AM		
Supervise By	Ankita	Supervise On	10/22/2024 9:03:18 AM		
SubDirectory	PL102124	HP Acquire Method		HP Processing Method	pl102124 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23282,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	PL092511.D	21 Oct 2024 16:07		AR\AJ	Ok,M
20	PSTDICV050	ICVPL102124	PL092512.D	21 Oct 2024 16:21		AR\AJ	Ok,M
21	PCHLORICV500	ICVPL102124CHLOR	PL092513.D	21 Oct 2024 16:34		AR\AJ	Ok,M
22	PTOXICV500	ICVPL102124	PL092514.D	21 Oct 2024 18:08		AR\AJ	Ok
23	I.BLK	I.BLK	PL092515.D	21 Oct 2024 18:41		AR\AJ	Ok,M
24	PEM	PEM	PL092516.D	21 Oct 2024 18:54		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL092517.D	21 Oct 2024 19:08		AR\AJ	Ok,M
26	PB164288BL	PB164288BL	PL092518.D	21 Oct 2024 19:21		AR\AJ	Ok
27	PB164288BS	PB164288BS	PL092519.D	21 Oct 2024 19:34		AR\AJ	Ok,M
28	P4455-01	SU-4-101824	PL092520.D	21 Oct 2024 19:48		AR\AJ	Ok,M
29	P4443-01	OG-315-HR-502-COMF	PL092521.D	21 Oct 2024 20:01		AR\AJ	Ok,M
30	P4443-06	OG-315-HR-502-COMF	PL092522.D	21 Oct 2024 20:15		AR\AJ	Ok,M
31	I.BLK	I.BLK	PL092523.D	21 Oct 2024 20:28		AR\AJ	Ok,M
32	PSTDCCC050	PSTDCCC050	PL092524.D	21 Oct 2024 20:42		AR\AJ	Ok,M
33	P4458-01	280517	PL092525.D	21 Oct 2024 20:55		AR\AJ	Ok,M
34	P4458-01MS	280517MS	PL092526.D	21 Oct 2024 21:08	Some compound recovery fail	AR\AJ	Ok,M
35	P4458-01MSD	280517MSD	PL092527.D	21 Oct 2024 21:22	Some compound recovery fail, RPD fail	AR\AJ	Ok,M
36	I.BLK	I.BLK	PL092528.D	21 Oct 2024 21:35		AR\AJ	Ok,M
37	PSTDCCC050	PSTDCCC050	PL092529.D	21 Oct 2024 21:49		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102124

Review By	Abdul	Review On	10/22/2024 8:47:55 AM		
Supervise By	Ankita	Supervise On	10/22/2024 9:03:18 AM		
SubDirectory	PL102124	HP Acquire Method		HP Processing Method	pl102124 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23282,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	

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102424

Review By	Abdul	Review On	10/25/2024 3:26:14 PM		
Supervise By	Ankita	Supervise On	10/28/2024 10:35:47 AM		
SubDirectory	PL102424	HP Acquire Method		HP Processing Method	pl102124 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	PL092588.D	24 Oct 2024 09:39		AR\AJ	Ok
2	I.BLK	I.BLK	PL092589.D	24 Oct 2024 09:53		AR\AJ	Ok
3	PEM	PEM	PL092590.D	24 Oct 2024 10:06		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL092591.D	24 Oct 2024 10:19		AR\AJ	Ok,M
5	P4467-01	TP-1	PL092592.D	24 Oct 2024 10:55		AR\AJ	Ok,M
6	P4470-01	CL-01-102124	PL092593.D	24 Oct 2024 11:08		AR\AJ	Ok,M
7	P4472-01	BP-F-28	PL092594.D	24 Oct 2024 11:22		AR\AJ	Ok,M
8	P4472-01MS	BP-F-28MS	PL092595.D	24 Oct 2024 11:35		AR\AJ	Ok,M
9	P4472-01MSD	BP-F-28MSD	PL092596.D	24 Oct 2024 11:49		AR\AJ	Ok,M
10	P4472-05	BP-F-6	PL092597.D	24 Oct 2024 12:02		AR\AJ	Ok,M
11	P4487-01	BP-B5	PL092598.D	24 Oct 2024 12:15		AR\AJ	Ok,M
12	P4487-05	BP-F27	PL092599.D	24 Oct 2024 12:29		AR\AJ	Ok,M
13	P4487-05MS	BP-F27MS	PL092600.D	24 Oct 2024 12:42		AR\AJ	Ok,M
14	P4487-05MSD	BP-F27MSD	PL092601.D	24 Oct 2024 12:56		AR\AJ	Ok,M
15	PB164360BL	PB164360BL	PL092602.D	24 Oct 2024 13:09		AR\AJ	Ok
16	PB164360BS	PB164360BS	PL092603.D	24 Oct 2024 13:22	Recovery Fail higher side ,Methoxychlor-I and Mirex-I	AR\AJ	Not Ok
17	PB164261TB	PB164261TB	PL092604.D	24 Oct 2024 13:36		AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102424

Review By	Abdul	Review On	10/25/2024 3:26:14 PM		
Supervise By	Ankita	Supervise On	10/28/2024 10:35:47 AM		
SubDirectory	PL102424	HP Acquire Method		HP Processing Method	pl102124 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	

18	P4397-06	WB-301-BOT	PL092605.D	24 Oct 2024 13:49		AR\AJ	Ok,M
19	P4397-06MS	WB-301-BOTMS	PL092606.D	24 Oct 2024 14:03		AR\AJ	Ok,M
20	P4397-06MSD	WB-301-BOTMSD	PL092607.D	24 Oct 2024 14:16		AR\AJ	Ok,M
21	P4460-04	WB-303-BOT	PL092608.D	24 Oct 2024 14:30		AR\AJ	Ok,M
22	P4486-01	EO-03-102224	PL092609.D	24 Oct 2024 16:04		AR\AJ	Ok,M
23	PB164365BS	PB164365BS	PL092610.D	24 Oct 2024 16:17		AR\AJ	Ok,M
24	PB164365BL	PB164365BL	PL092611.D	24 Oct 2024 16:35		AR\AJ	Ok,M
25	I.BLK	I.BLK	PL092612.D	24 Oct 2024 16:48		AR\AJ	Ok,M
26	PSTDCCC050	PSTDCCC050	PL092613.D	24 Oct 2024 17:20		AR\AJ	Ok,M
27	PB164360BS	PB164360BS	PL092614.D	24 Oct 2024 17:38	Recovery Fail Higher side, Methoxychlor-I	AR\AJ	Not Ok
28	P4508-01	TP-3	PL092615.D	24 Oct 2024 17:52		AR\AJ	Ok,M
29	P4508-05	BP-F23	PL092616.D	24 Oct 2024 18:05		AR\AJ	Ok,M
30	P4508-09	BP-F22	PL092617.D	24 Oct 2024 18:19		AR\AJ	Ok,M
31	P4508-09MS	BP-F22MS	PL092618.D	24 Oct 2024 18:32		AR\AJ	Ok,M
32	P4508-09MSD	BP-F22MSD	PL092619.D	24 Oct 2024 18:46		AR\AJ	Ok,M
33	P4509-01	AU-06-10232024	PL092620.D	24 Oct 2024 18:59		AR\AJ	Ok,M
34	P4512-03	VNJ-212	PL092621.D	24 Oct 2024 19:12		AR\AJ	Ok,M
35	I.BLK	I.BLK	PL092622.D	24 Oct 2024 19:26		AR\AJ	Ok,M
36	PSTDCCC050	PSTDCCC050	PL092623.D	24 Oct 2024 19:39		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102424

Review By	Abdul	Review On	10/25/2024 3:26:14 PM		
Supervise By	Ankita	Supervise On	10/28/2024 10:35:47 AM		
SubDirectory	PL102424	HP Acquire Method		HP Processing Method	pl102124 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	

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102624

Review By	Abdul	Review On	10/28/2024 9:31:07 AM		
Supervise By	Ankita	Supervise On	10/28/2024 10:46:33 AM		
SubDirectory	PL102624	HP Acquire Method		HP Processing Method	pl102124 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	PL092636.D	25 Oct 2024 14:55		AR\AJ	Ok
2	I.BLK	I.BLK	PL092637.D	25 Oct 2024 15:08		AR\AJ	Ok,M
3	PEM	PEM	PL092638.D	25 Oct 2024 15:22		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL092639.D	25 Oct 2024 15:49		AR\AJ	Ok,M
5	PB164398BL	PB164398BL	PL092640.D	25 Oct 2024 16:46		AR\AJ	Ok,M
6	PB164398BS	PB164398BS	PL092641.D	25 Oct 2024 16:59		AR\AJ	Ok,M
7	PB164360BS	PB164360BS	PL092642.D	25 Oct 2024 17:35		AR\AJ	Ok,M
8	P4531-01	OR-03-102424	PL092643.D	25 Oct 2024 17:49		AR\AJ	Ok,M
9	P4547-01	BP-F-21	PL092644.D	25 Oct 2024 18:02		AR\AJ	Ok,M
10	P4545-01	VNJ-215	PL092645.D	25 Oct 2024 18:15	Surrogate Fail in both column , Decachlorobiphenyl	AR\AJ	ReRun
11	P4547-05	BP-F-20	PL092646.D	25 Oct 2024 18:29		AR\AJ	Ok,M
12	P4547-05MS	BP-F-20MS	PL092647.D	25 Oct 2024 18:42		AR\AJ	Ok,M
13	P4547-05MSD	BP-F-20MSD	PL092648.D	25 Oct 2024 18:56		AR\AJ	Ok,M
14	I.BLK	I.BLK	PL092649.D	25 Oct 2024 19:09		AR\AJ	Ok,M
15	PSTDCCC050	PSTDCCC050	PL092650.D	25 Oct 2024 19:49		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

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

TCLP Filter ID : 114771

Start Prep Date : 10/18/2024 **Time :** 17:00

End Prep Date : 10/19/2024 **Time :** 10:15

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	N/A
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 CHECKED,30 RPM. Particle size reduction is not required. p4460-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/21/24 0810	JP TCLP Room	JPP EXT
	Preparation Group	Analysis Group VOA PIG

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

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
P4397-06	WB-301-BOT	01	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4443-05	OG-315-HR-502-COMP-29	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P4443-10	OG-315-HR-502-COMP-30	03	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4458-02	280517	04	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4460-04	WB-303-BOT	05	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-1
PB164261TB	LEB261	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4397-06	WB-301-BOT	N/A	N/A	N/A	N/A	100	N/A
P4443-05	OG-315-HR-502-COMP-29	N/A	N/A	N/A	N/A	100	N/A
P4443-10	OG-315-HR-502-COMP-30	N/A	N/A	N/A	N/A	100	N/A
P4458-02	280517	N/A	N/A	N/A	N/A	100	N/A
P4460-04	WB-303-BOT	N/A	N/A	N/A	N/A	100	N/A
PB164261TB	LEB261	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB164261

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
P4397-06	WB-301-BOT	5.02	96.5	7.4	2.5	#1	4.93
P4443-05	OG-315-HR-502-COMP-29	5.03	96.5	7.6	2.5	#1	4.93
P4443-10	OG-315-HR-502-COMP-30	5.02	96.5	6.0	2.0	#1	4.93
P4458-02	280517	5.01	96.5	7.6	2.5	#1	4.93
P4460-04	WB-303-BOT	5.02	96.5	8.4	3.0	#1	4.93
PB164261TB	LEB261	N/A	N/A	N/A	N/A	#1	4.93

P4397

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP P4397 **WorkList ID :** 184595 **Department :** TCLP Extraction **Date :** 10-18-2024 14:05:11

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4397-06	WB-301-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06		10/10/2024	1311
P4443-05	OG-315-HR-502-COMP-29	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311
P4443-10	OG-315-HR-502-COMP-30	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311
P4458-02	280517	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/18/2024	1311
P4460-04	WB-303-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K51	10/18/2024	1311

694 of 1303

Date/Time 10.18.24 16:20
Raw Sample Received by: JQ WDC
Raw Sample Relinquished by: CP SR

Date/Time 10.18.24 18:30
Raw Sample Received by: SR
Raw Sample Relinquished by: JQ WDC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164360

SOP ID: M3510C,3580A-Extraction Pesticide-16

Clean Up SOP #: N/A

Matrix : Water

Weigh By: EH

Extraction By: RJ

Balance check: RJ

Filter By: RJ

Balance ID: N/A

pH Meter ID: N/A

pH Strip Lot#: N/A

Hood ID: 4,6,7

Extraction Start Date : 10/22/2024

Extraction Start Time : 10:10

Extraction End Date : 10/22/2024

Extraction End Time : 16:00

Concentration By: EH

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
Hexane/Acetone/1:1	N/A	EP2539
Baked Na2SO4	N/A	EP2546
Sand	N/A	E2865
Hexane	N/A	E3819
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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 -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/22/24	RP (Ext. Lab)	Y. P. Pest IPC
16:05	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164360

Analytical Method: M3510C,3580A-Extraction Pesticide-16

Concentration Date: 10/22/2024

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164261TB	PB164261TB	TCLP Pesticide	100	6	RUPESH	rajesh	10			SEP-10
PB164360BL	PBLK360	TCLP Pesticide	1000	6	RUPESH	rajesh	10			11
PB164360BS	PLCS360	TCLP Pesticide	1000	6	RUPESH	rajesh	10			12
P4397-06	WB-301-BOT	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		13
P4397-06MS	WB-301-BOTMS	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		14
P4397-06MSD	WB-301-BOTMSD	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		15
P4460-04	WB-303-BOT	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		16

* **Extracts relinguished on the same date as received.**

10/22/24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

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	Pr Pc
P4397-06	WB-301-BOT	01	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4443-05	OG-315-HR-502-COMP-29	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P4443-10	OG-315-HR-502-COMP-30	03	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4458-02	280517	04	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4460-04	WB-303-BOT	05	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-1
PB164261TB	LEB261	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

10/21/2024

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LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**SOIL**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/15/24	
P4397-02	**WB-301-BOT**	**SOIL**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/15/24	
P4397-04	**WB-301-SW**	**WATER**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	
P4397-06	**WB-301-BOT**	**TCLP**			**10/10/24**			**10/11/24**
			TCLP Herbicide	8151A		10/24/24	10/24/24	
			TCLP Pesticide	8081B		10/22/24	10/24/24	

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Hit Summary Sheet
SW-846

SDG No.: P4397 **Order ID:** P4397

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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	63.3 Decanted:
Sample Wt/Vol:	30.05 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
PP067808.D	1	10/14/24 10:05	10/14/24 20:22	PB164124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.30	U	5.30	26.8	ug/kg
11104-28-2	Aroclor-1221	10.1	U	10.1	26.8	ug/kg
11141-16-5	Aroclor-1232	5.40	U	5.40	26.8	ug/kg
53469-21-9	Aroclor-1242	5.30	U	5.30	26.8	ug/kg
12672-29-6	Aroclor-1248	12.4	U	12.4	26.8	ug/kg
11097-69-1	Aroclor-1254	4.30	U	4.30	26.8	ug/kg
37324-23-5	Aroclor-1262	7.20	U	7.20	26.8	ug/kg
11100-14-4	Aroclor-1268	5.40	U	5.40	26.8	ug/kg
11096-82-5	Aroclor-1260	4.60	U	4.60	26.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.8		30 (32) - 150 (144)	79%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.7		30 (32) - 150 (175)	74%	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	76 Decanted:
Sample Wt/Vol:	30.09 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
PP067809.D	1	10/14/24 10:05	10/14/24 20:38	PB164124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.40	U	4.40	22.3	ug/kg
11104-28-2	Aroclor-1221	8.40	U	8.40	22.3	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	22.3	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	22.3	ug/kg
12672-29-6	Aroclor-1248	10.4	U	10.4	22.3	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	22.3	ug/kg
37324-23-5	Aroclor-1262	6.00	U	6.00	22.3	ug/kg
11100-14-4	Aroclor-1268	4.50	U	4.50	22.3	ug/kg
11096-82-5	Aroclor-1260	3.80	U	3.80	22.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.5		30 (32) - 150 (144)	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.1		30 (32) - 150 (175)	86%	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
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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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	960 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
PP067812.D	1	10/14/24 13:15	10/14/24 21:26	PB164139

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.16	U	0.16	0.52	ug/L
11104-28-2	Aroclor-1221	0.24	U	0.24	0.52	ug/L
11141-16-5	Aroclor-1232	0.39	U	0.39	0.52	ug/L
53469-21-9	Aroclor-1242	0.17	U	0.17	0.52	ug/L
12672-29-6	Aroclor-1248	0.13	U	0.13	0.52	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.52	ug/L
37324-23-5	Aroclor-1262	0.15	U	0.15	0.52	ug/L
11100-14-4	Aroclor-1268	0.13	U	0.13	0.52	ug/L
11096-82-5	Aroclor-1260	0.16	U	0.16	0.52	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.1		30 (10) - 150 (157)	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.5		30 (10) - 150 (173)	97%	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

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

SDG No.: P4397

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-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-PP067778.D	PIBLK-PP067778.D	Tetrachloro-m-xylene	1	20	19.6	98		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.1	105		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.8	94		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.5	103		70 (60)	130 (140)
PB164124BL	PB164124BL	Tetrachloro-m-xylene	1	20	19.0	95		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.3	111		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.6	93		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	19.4	97		30 (32)	150 (175)
PB164124BS	PB164124BS	Tetrachloro-m-xylene	1	20	19.9	100		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	21.4	107		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.4	92		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	20.5	103		30 (32)	150 (175)
I.BLK-PP067792.D	PIBLK-PP067792.D	Tetrachloro-m-xylene	1	20	19.6	98		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	20.9	104		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.1	96		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.0	100		70 (60)	130 (140)
P4397-01	WB-301-TOP	Tetrachloro-m-xylene	1	20	15.8	79		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	14.7	74		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	15.7	78		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	13.8	69		30 (32)	150 (175)
P4397-02	WB-301-BOT	Tetrachloro-m-xylene	1	20	20.5	102		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	17.1	86		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.3	101		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	16.0	80		30 (32)	150 (175)
P4397-02MS	WB-301-BOTMS	Tetrachloro-m-xylene	1	20	24.3	121		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.1	100		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.9	104		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.3	91		30 (32)	150 (175)
P4397-02MSD	WB-301-BOTMSD	Tetrachloro-m-xylene	1	20	23.8	119		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.4	97		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.7	104		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.6	93		30 (32)	150 (175)
P4397-04	WB-301-SW	Tetrachloro-m-xylene	1	20	21.1	105		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	19.5	97		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	20.1	100		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	18.2	91		30 (10)	150 (173)
I.BLK-PP067817.D	PIBLK-PP067817.D	Tetrachloro-m-xylene	1	20	20.5	103		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: P4397

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-PP067817.D	PIBLK-PP067817.D	Decachlorobiphenyl	1	20	21.9	110		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.1	101		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.2	106		70 (60)	130 (140)
I.BLK-PP067829.D	PIBLK-PP067829.D	Tetrachloro-m-xylene	1	20	20.8	104		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	22.6	113		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.0	100		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.5	107		70 (60)	130 (140)
PB164139BL	PB164139BL	Tetrachloro-m-xylene	1	20	21.4	107		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	22.3	112		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	20.5	102		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	21.6	108		30 (10)	150 (173)
I.BLK-PP067844.D	PIBLK-PP067844.D	Tetrachloro-m-xylene	1	20	21.4	107		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	22.9	115		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.3	101		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.5	108		70 (60)	130 (140)
PB164139BS	PB164139BS	Tetrachloro-m-xylene	1	20	21.9	110		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	23.5	117		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	20.7	104		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	22.4	112		30 (10)	150 (173)
PB164139BSD	PB164139BSD	Tetrachloro-m-xylene	1	20	20.4	102		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	21.9	110		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	18.5	92		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	21.0	105		30 (10)	150 (173)
I.BLK-PP067866.D	PIBLK-PP067866.D	Tetrachloro-m-xylene	1	20	21.1	106		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	22.2	111		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.1	100		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.8	104		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP067810.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-301-BOTMS**											
P4397-02MS	AR1016	219	0	247	ug/kg	113				40 (55)	140 (146)	
	AR1260	219	0	210	ug/kg	96				40 (45)	140 (144)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP067811.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-301-BOTMSD**											
P4397-02MSD	AR1016	218.9	0	246	ug/kg	112		1		40 (55)	140 (146)	30 (20)
	AR1260	218.9	0	211	ug/kg	96		0		40 (45)	140 (144)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP067788.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164124BS	AR1016	166.5	153	ug/kg	92				40 (71)	140 (120)	
	AR1260	166.5	143	ug/kg	86				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP067845.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164139BS	AR1016	5	4.60	ug/L	92				40 (61)	140 (112)	
	AR1260	5	4.30	ug/L	86				40 (66)	140 (113)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP067846.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164139BSD	AR1016	5	4.30	ug/L	86	7			40 (61)	140 (112)	20 (20)
	AR1260	5	4.10	ug/L	82	5			40 (66)	140 (113)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164124BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab Sample ID: PB164124BL Lab File ID: PP067787.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/14/2024

Date Analyzed (1): 10/14/2024 Date Analyzed (2): 10/14/2024

Time Analyzed (1): 14:31 Time Analyzed (2): 14:31

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
PB164124BS	PB164124BS	PP067788.D	10/14/2024	10/14/2024
WB-301-TOP	P4397-01	PP067808.D	10/14/2024	10/14/2024
WB-301-BOT	P4397-02	PP067809.D	10/14/2024	10/14/2024
WB-301-BOTMS	P4397-02MS	PP067810.D	10/14/2024	10/14/2024
WB-301-BOTMSD	P4397-02MSD	PP067811.D	10/14/2024	10/14/2024

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164139BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab Sample ID: PB164139BL Lab File ID: PP067838.D

Matrix: (soil/water) WATER Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/14/2024

Date Analyzed (1): 10/15/2024 Date Analyzed (2): 10/15/2024

Time Analyzed (1): 13:16 Time Analyzed (2): 13:16

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
WB-301-SW	P4397-04	PP067812.D	10/14/2024	10/14/2024
PB164139BS	PB164139BS	PP067845.D	10/15/2024	10/15/2024
PB164139BSD	PB164139BSD	PP067846.D	10/15/2024	10/15/2024

COMMENTS:

QC SAMPLE DATA

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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:	
Client Sample ID:	PB164124BL	SDG No.:	P4397
Lab Sample ID:	PB164124BL	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
PP067787.D	1	10/14/24 10:05	10/14/24 14:31	PB164124

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	19.0		30 (32) - 150 (144)	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.3		30 (32) - 150 (175)	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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164139BL	SDG No.:	P4397
Lab Sample ID:	PB164139BL	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
PP067838.D	1	10/14/24 13:15	10/15/24 13:16	PB164139

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	21.4		30 (10) - 150 (157)	107%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.3		30 (10) - 150 (173)	112%	SPK: 20

Comments:

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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.:	P4397
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:

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LOQ = Limit of Quantitation
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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
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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:	10/14/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/14/24
Client Sample ID:	PIBLK-PP067778.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PP067778.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
PP067778.D	1		10/14/24	PP101424

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	18.8		70 (60) - 130 (140)	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.5		70 (60) - 130 (140)	103%	SPK: 20

Comments:

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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
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:	10/14/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/14/24
Client Sample ID:	PIBLK-PP067792.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PP067792.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
PP067792.D	1		10/14/24	PP101424

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	19.1		70 (60) - 130 (140)	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.0		70 (60) - 130 (140)	100%	SPK: 20

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/14/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/14/24
Client Sample ID:	PIBLK-PP067817.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PP067817.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
PP067817.D	1		10/14/24	PP101424

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	20.1		70 (60) - 130 (140)	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.2		70 (60) - 130 (140)	106%	SPK: 20

Comments:

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J = Estimated Value
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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-PP067829.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PP067829.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
PP067829.D	1		10/15/24	PP101524

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	20.0		70 (60) - 130 (140)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.5		70 (60) - 130 (140)	107%	SPK: 20

Comments:

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N = Presumptive Evidence of a Compound
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() = 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-PP067844.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PP067844.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
PP067844.D	1		10/15/24	PP101524

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	20.3		70 (60) - 130 (140)	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.5		70 (60) - 130 (140)	108%	SPK: 20

Comments:

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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-PP067866.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PP067866.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
PP067866.D	1		10/15/24	PP101524

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	20.1		70 (60) - 130 (140)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.8		70 (60) - 130 (140)	104%	SPK: 20

Comments:

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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:	PB164124BS	SDG No.:	P4397
Lab Sample ID:	PB164124BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 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
PP067788.D	1	10/14/24 10:05	10/14/24 14:48	PB164124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	153		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	143		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.9		30 (32) - 150 (144)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.4		30 (32) - 150 (175)	107%	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:	PB164139BS	SDG No.:	P4397
Lab Sample ID:	PB164139BS	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
PP067845.D	1	10/14/24 13:15	10/15/24 15:09	PB164139

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.60		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	4.30		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		30 (10) - 150 (157)	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.5		30 (10) - 150 (173)	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:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164139BSD	SDG No.:	P4397
Lab Sample ID:	PB164139BSD	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
PP067846.D	1	10/14/24 13:15	10/15/24 15:25	PB164139

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	4.10		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.4		30 (10) - 150 (157)	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.9		30 (10) - 150 (173)	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-02MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	76 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
PP067810.D	1	10/14/24 10:05	10/14/24 20:54	PB164124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	247		4.50	22.3	ug/kg
11104-28-2	Aroclor-1221	8.40	U	8.40	22.3	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	22.3	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	22.3	ug/kg
12672-29-6	Aroclor-1248	10.4	U	10.4	22.3	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	22.3	ug/kg
37324-23-5	Aroclor-1262	6.00	U	6.00	22.3	ug/kg
11100-14-4	Aroclor-1268	4.50	U	4.50	22.3	ug/kg
11096-82-5	Aroclor-1260	210		3.80	22.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.3		30 (32) - 150 (144)	121%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.1		30 (32) - 150 (175)	100%	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-02MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	76 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
PP067811.D	1	10/14/24 10:05	10/14/24 21:10	PB164124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	246		4.50	22.3	ug/kg
11104-28-2	Aroclor-1221	8.40	U	8.40	22.3	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	22.3	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	22.3	ug/kg
12672-29-6	Aroclor-1248	10.4	U	10.4	22.3	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	22.3	ug/kg
37324-23-5	Aroclor-1262	6.00	U	6.00	22.3	ug/kg
11100-14-4	Aroclor-1268	4.50	U	4.50	22.3	ug/kg
11096-82-5	Aroclor-1260	211		3.80	22.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.8		30 (32) - 150 (144)	119%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.4		30 (32) - 150 (175)	97%	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
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CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/14/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 09:11 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.92	5.92	5.82	6.02	0.00
Aroclor-1016-2	(2)	5.94	5.94	5.84	6.04	0.00
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)	7.53	7.52	7.42	7.62	-0.01
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)	8.72	8.71	8.61	8.81	-0.01
Tetrachloro-m-xylene		4.76	4.76	4.66	4.86	0.00
Decachlorobiphenyl		10.68	10.67	10.57	10.77	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/14/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 09:11 **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)	7.01	7.01	6.91	7.11	0.00
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		9.22	9.22	9.12	9.32	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/14/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067774.D **Time Analyzed:** 09:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.922	5.819	6.019	511.340	500.000	2.3
Aroclor-1016-2	5.944	5.842	6.042	500.800	500.000	0.2
Aroclor-1016-3	6.008	5.905	6.105	508.780	500.000	1.8
Aroclor-1016-4	6.106	6.003	6.203	496.670	500.000	-0.7
Aroclor-1016-5	6.400	6.298	6.498	499.480	500.000	-0.1
Aroclor-1260-1	7.525	7.422	7.622	473.850	500.000	-5.2
Aroclor-1260-2	7.778	7.675	7.875	484.720	500.000	-3.1
Aroclor-1260-3	8.140	8.037	8.237	468.630	500.000	-6.3
Aroclor-1260-4	8.378	8.275	8.475	474.560	500.000	-5.1
Aroclor-1260-5	8.716	8.612	8.812	488.110	500.000	-2.4
Decachlorobiphenyl	10.677	10.569	10.769	47.100	50.000	-5.8
Tetrachloro-m-xylene	4.757	4.655	4.855	51.370	50.000	2.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/14/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067774.D **Time Analyzed:** 09:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.161	5.061	5.261	491.340	500.000	-1.7
Aroclor-1016-2	5.181	5.081	5.281	491.950	500.000	-1.6
Aroclor-1016-3	5.362	5.262	5.462	501.590	500.000	0.3
Aroclor-1016-4	5.401	5.301	5.501	493.990	500.000	-1.2
Aroclor-1016-5	5.621	5.520	5.720	489.800	500.000	-2.0
Aroclor-1260-1	6.664	6.564	6.764	467.300	500.000	-6.5
Aroclor-1260-2	6.851	6.750	6.950	468.690	500.000	-6.3
Aroclor-1260-3	7.009	6.908	7.108	470.960	500.000	-5.8
Aroclor-1260-4	7.484	7.383	7.583	462.780	500.000	-7.4
Aroclor-1260-5	7.722	7.622	7.822	460.480	500.000	-7.9
Decachlorobiphenyl	9.220	9.119	9.319	46.320	50.000	-7.4
Tetrachloro-m-xylene	4.052	3.952	4.152	50.190	50.000	0.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/14/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 15:36 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.92	5.92	5.82	6.02	0.00
Aroclor-1016-2	(2)	5.94	5.94	5.84	6.04	0.00
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)	7.53	7.52	7.42	7.62	-0.01
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/14/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 15:36 **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)	6.67	6.66	6.56	6.76	-0.01
Aroclor-1260-2	(2)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-3	(3)	7.01	7.01	6.91	7.11	0.00
Aroclor-1260-4	(4)	7.49	7.48	7.38	7.58	-0.01
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		9.22	9.22	9.12	9.32	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/14/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067791.D **Time Analyzed:** 15:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.921	5.819	6.019	532.300	500.000	6.5
Aroclor-1016-2	5.944	5.842	6.042	494.450	500.000	-1.1
Aroclor-1016-3	6.007	5.905	6.105	488.800	500.000	-2.2
Aroclor-1016-4	6.105	6.003	6.203	474.520	500.000	-5.1
Aroclor-1016-5	6.400	6.298	6.498	486.600	500.000	-2.7
Aroclor-1260-1	7.525	7.422	7.622	462.200	500.000	-7.6
Aroclor-1260-2	7.777	7.675	7.875	466.570	500.000	-6.7
Aroclor-1260-3	8.139	8.037	8.237	471.690	500.000	-5.7
Aroclor-1260-4	8.378	8.275	8.475	473.740	500.000	-5.3
Aroclor-1260-5	8.714	8.612	8.812	481.620	500.000	-3.7
Decachlorobiphenyl	10.673	10.569	10.769	49.040	50.000	-1.9
Tetrachloro-m-xylene	4.757	4.655	4.855	51.490	50.000	3.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/14/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067791.D **Time Analyzed:** 15:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.162	5.061	5.261	475.030	500.000	-5.0
Aroclor-1016-2	5.182	5.081	5.281	474.360	500.000	-5.1
Aroclor-1016-3	5.362	5.262	5.462	480.490	500.000	-3.9
Aroclor-1016-4	5.402	5.301	5.501	476.100	500.000	-4.8
Aroclor-1016-5	5.621	5.520	5.720	491.940	500.000	-1.6
Aroclor-1260-1	6.666	6.564	6.764	446.780	500.000	-10.6
Aroclor-1260-2	6.852	6.750	6.950	459.610	500.000	-8.1
Aroclor-1260-3	7.009	6.908	7.108	462.740	500.000	-7.5
Aroclor-1260-4	7.485	7.383	7.583	462.720	500.000	-7.5
Aroclor-1260-5	7.723	7.622	7.822	462.990	500.000	-7.4
Decachlorobiphenyl	9.219	9.119	9.319	46.670	50.000	-6.7
Tetrachloro-m-xylene	4.053	3.952	4.152	48.730	50.000	-2.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/14/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 22:04 **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	0.00
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)	6.40	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)	7.77	7.78	7.68	7.88	0.01
Aroclor-1260-3	(3)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-4	(4)	8.37	8.38	8.28	8.48	0.01
Aroclor-1260-5	(5)	8.71	8.71	8.61	8.81	0.00
Tetrachloro-m-xylene		4.75	4.76	4.66	4.86	0.01
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/14/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 22:04 **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)	7.01	7.01	6.91	7.11	0.00
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		9.22	9.22	9.12	9.32	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/14/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067813.D **Time Analyzed:** 22:04

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.917	5.819	6.019	515.980	500.000	3.2
Aroclor-1016-2	5.941	5.842	6.042	495.940	500.000	-0.8
Aroclor-1016-3	6.003	5.905	6.105	502.410	500.000	0.5
Aroclor-1016-4	6.102	6.003	6.203	490.930	500.000	-1.8
Aroclor-1016-5	6.396	6.298	6.498	491.780	500.000	-1.6
Aroclor-1260-1	7.520	7.422	7.622	467.330	500.000	-6.5
Aroclor-1260-2	7.773	7.675	7.875	471.760	500.000	-5.6
Aroclor-1260-3	8.135	8.037	8.237	472.990	500.000	-5.4
Aroclor-1260-4	8.373	8.275	8.475	466.590	500.000	-6.7
Aroclor-1260-5	8.710	8.612	8.812	473.370	500.000	-5.3
Decachlorobiphenyl	10.667	10.569	10.769	48.170	50.000	-3.7
Tetrachloro-m-xylene	4.754	4.655	4.855	50.940	50.000	1.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/14/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067813.D **Time Analyzed:** 22:04

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.160	5.061	5.261	479.770	500.000	-4.0
Aroclor-1016-2	5.179	5.081	5.281	477.630	500.000	-4.5
Aroclor-1016-3	5.360	5.262	5.462	483.960	500.000	-3.2
Aroclor-1016-4	5.399	5.301	5.501	478.030	500.000	-4.4
Aroclor-1016-5	5.618	5.520	5.720	495.750	500.000	-0.9
Aroclor-1260-1	6.662	6.564	6.764	468.780	500.000	-6.2
Aroclor-1260-2	6.849	6.750	6.950	472.570	500.000	-5.5
Aroclor-1260-3	7.006	6.908	7.108	467.440	500.000	-6.5
Aroclor-1260-4	7.481	7.383	7.583	461.970	500.000	-7.6
Aroclor-1260-5	7.719	7.622	7.822	461.020	500.000	-7.8
Decachlorobiphenyl	9.215	9.119	9.319	46.350	50.000	-7.3
Tetrachloro-m-xylene	4.051	3.952	4.152	48.370	50.000	-3.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/15/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 09:43 **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	0.00
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)	6.40	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)	7.77	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)	8.71	8.71	8.61	8.81	0.00
Tetrachloro-m-xylene		4.75	4.76	4.66	4.86	0.01
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/15/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 09:43 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	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)	7.01	7.01	6.91	7.11	0.00
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/15/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067825.D **Time Analyzed:** 09:43

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.918	5.819	6.019	504.470	500.000	0.9
Aroclor-1016-2	5.939	5.842	6.042	495.590	500.000	-0.9
Aroclor-1016-3	6.003	5.905	6.105	485.130	500.000	-3.0
Aroclor-1016-4	6.101	6.003	6.203	482.020	500.000	-3.6
Aroclor-1016-5	6.396	6.298	6.498	498.860	500.000	-0.2
Aroclor-1260-1	7.519	7.422	7.622	510.610	500.000	2.1
Aroclor-1260-2	7.773	7.675	7.875	497.120	500.000	-0.6
Aroclor-1260-3	8.134	8.037	8.237	496.870	500.000	-0.6
Aroclor-1260-4	8.372	8.275	8.475	488.420	500.000	-2.3
Aroclor-1260-5	8.709	8.612	8.812	491.890	500.000	-1.6
Decachlorobiphenyl	10.666	10.569	10.769	49.880	50.000	-0.2
Tetrachloro-m-xylene	4.754	4.655	4.855	51.640	50.000	3.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/15/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067825.D **Time Analyzed:** 09:43

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.160	5.061	5.261	484.180	500.000	-3.2
Aroclor-1016-2	5.180	5.081	5.281	485.730	500.000	-2.9
Aroclor-1016-3	5.360	5.262	5.462	495.670	500.000	-0.9
Aroclor-1016-4	5.399	5.301	5.501	489.210	500.000	-2.2
Aroclor-1016-5	5.618	5.520	5.720	537.700	500.000	7.5
Aroclor-1260-1	6.661	6.564	6.764	485.280	500.000	-2.9
Aroclor-1260-2	6.848	6.750	6.950	482.190	500.000	-3.6
Aroclor-1260-3	7.006	6.908	7.108	499.050	500.000	-0.2
Aroclor-1260-4	7.480	7.383	7.583	488.900	500.000	-2.2
Aroclor-1260-5	7.718	7.622	7.822	486.860	500.000	-2.6
Decachlorobiphenyl	9.214	9.119	9.319	48.300	50.000	-3.4
Tetrachloro-m-xylene	4.051	3.952	4.152	49.260	50.000	-1.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/15/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 13:48 **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	0.00
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)	6.40	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)	7.77	7.78	7.68	7.88	0.01
Aroclor-1260-3	(3)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-4	(4)	8.37	8.38	8.28	8.48	0.01
Aroclor-1260-5	(5)	8.71	8.71	8.61	8.81	0.00
Tetrachloro-m-xylene		4.75	4.76	4.66	4.86	0.01
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/15/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 13:48 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	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)	7.01	7.01	6.91	7.11	0.00
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL05 **Date Analyzed:** 10/15/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067840.D **Time Analyzed:** 13:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.917	5.819	6.019	517.170	500.000	3.4
Aroclor-1016-2	5.940	5.842	6.042	502.110	500.000	0.4
Aroclor-1016-3	6.003	5.905	6.105	503.950	500.000	0.8
Aroclor-1016-4	6.102	6.003	6.203	495.350	500.000	-0.9
Aroclor-1016-5	6.396	6.298	6.498	507.580	500.000	1.5
Aroclor-1260-1	7.520	7.422	7.622	502.050	500.000	0.4
Aroclor-1260-2	7.773	7.675	7.875	498.100	500.000	-0.4
Aroclor-1260-3	8.135	8.037	8.237	489.130	500.000	-2.2
Aroclor-1260-4	8.373	8.275	8.475	478.190	500.000	-4.4
Aroclor-1260-5	8.710	8.612	8.812	418.960	500.000	-16.2
Decachlorobiphenyl	10.668	10.569	10.769	49.470	50.000	-1.1
Tetrachloro-m-xylene	4.753	4.655	4.855	51.290	50.000	2.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL05 **Date Analyzed:** 10/15/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067840.D **Time Analyzed:** 13:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.158	5.061	5.261	471.080	500.000	-5.8
Aroclor-1016-2	5.178	5.081	5.281	470.860	500.000	-5.8
Aroclor-1016-3	5.359	5.262	5.462	468.210	500.000	-6.4
Aroclor-1016-4	5.399	5.301	5.501	460.600	500.000	-7.9
Aroclor-1016-5	5.617	5.520	5.720	469.680	500.000	-6.1
Aroclor-1260-1	6.662	6.564	6.764	477.890	500.000	-4.4
Aroclor-1260-2	6.847	6.750	6.950	473.860	500.000	-5.2
Aroclor-1260-3	7.006	6.908	7.108	474.270	500.000	-5.1
Aroclor-1260-4	7.480	7.383	7.583	462.000	500.000	-7.6
Aroclor-1260-5	7.719	7.622	7.822	445.900	500.000	-10.8
Decachlorobiphenyl	9.214	9.119	9.319	47.090	50.000	-5.8
Tetrachloro-m-xylene	4.051	3.952	4.152	47.860	50.000	-4.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/15/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 20:42 **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	0.00
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)	6.40	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)	7.77	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)	8.71	8.71	8.61	8.81	0.00
Tetrachloro-m-xylene		4.75	4.76	4.66	4.86	0.01
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/15/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 20:42 **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)	7.01	7.01	6.91	7.11	0.00
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.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL06 **Date Analyzed:** 10/15/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067865.D **Time Analyzed:** 20:42

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.917	5.819	6.019	531.810	500.000	6.4
Aroclor-1016-2	5.944	5.842	6.042	576.610	500.000	15.3
Aroclor-1016-3	6.003	5.905	6.105	520.950	500.000	4.2
Aroclor-1016-4	6.101	6.003	6.203	520.890	500.000	4.2
Aroclor-1016-5	6.396	6.298	6.498	524.100	500.000	4.8
Aroclor-1260-1	7.520	7.422	7.622	489.810	500.000	-2.0
Aroclor-1260-2	7.772	7.675	7.875	485.520	500.000	-2.9
Aroclor-1260-3	8.134	8.037	8.237	485.080	500.000	-3.0
Aroclor-1260-4	8.372	8.275	8.475	484.150	500.000	-3.2
Aroclor-1260-5	8.710	8.612	8.812	486.460	500.000	-2.7
Decachlorobiphenyl	10.666	10.569	10.769	49.890	50.000	-0.2
Tetrachloro-m-xylene	4.753	4.655	4.855	52.150	50.000	4.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL06 **Date Analyzed:** 10/15/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP067865.D **Time Analyzed:** 20:42

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.159	5.061	5.261	521.720	500.000	4.3
Aroclor-1016-2	5.179	5.081	5.281	506.320	500.000	1.3
Aroclor-1016-3	5.359	5.262	5.462	547.220	500.000	9.4
Aroclor-1016-4	5.398	5.301	5.501	530.880	500.000	6.2
Aroclor-1016-5	5.618	5.520	5.720	554.590	500.000	10.9
Aroclor-1260-1	6.661	6.564	6.764	479.920	500.000	-4.0
Aroclor-1260-2	6.847	6.750	6.950	477.330	500.000	-4.5
Aroclor-1260-3	7.006	6.908	7.108	475.190	500.000	-5.0
Aroclor-1260-4	7.480	7.383	7.583	467.600	500.000	-6.5
Aroclor-1260-5	7.718	7.622	7.822	468.400	500.000	-6.3
Decachlorobiphenyl	9.213	9.119	9.319	46.520	50.000	-7.0
Tetrachloro-m-xylene	4.051	3.952	4.152	50.900	50.000	1.8

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_P

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/08/2024 10/08/2024

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	10/08/2024	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	10/14/2024	09:11	PP067774.D	10.68	4.76
I.BLK	I.BLK	10/14/2024	11:21	PP067778.D	10.67	4.76
PB164124BL	PB164124BL	10/14/2024	14:31	PP067787.D	10.67	4.76
PB164124BS	PB164124BS	10/14/2024	14:48	PP067788.D	10.68	4.76
AR1660CCC500	AR1660CCC500	10/14/2024	15:36	PP067791.D	10.67	4.76
I.BLK	I.BLK	10/14/2024	15:52	PP067792.D	10.67	4.76
WB-301-TOP	P4397-01	10/14/2024	20:22	PP067808.D	10.67	4.76
WB-301-BOT	P4397-02	10/14/2024	20:38	PP067809.D	10.67	4.76
WB-301-BOTMS	P4397-02MS	10/14/2024	20:54	PP067810.D	10.67	4.76
WB-301-BOTMSD	P4397-02MSD	10/14/2024	21:10	PP067811.D	10.67	4.75
WB-301-SW	P4397-04	10/14/2024	21:26	PP067812.D	10.67	4.76
AR1660CCC500	AR1660CCC500	10/14/2024	22:04	PP067813.D	10.67	4.75
I.BLK	I.BLK	10/14/2024	23:09	PP067817.D	10.67	4.76

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Analytical Sequence

AR1660CCC500	AR1660CCC500	10/15/2024	09:43	PP067825.D	10.67	4.75
I.BLK	I.BLK	10/15/2024	10:47	PP067829.D	10.67	4.75
PB164139BL	PB164139BL	10/15/2024	13:16	PP067838.D	10.67	4.75
AR1660CCC500	AR1660CCC500	10/15/2024	13:48	PP067840.D	10.67	4.75
I.BLK	I.BLK	10/15/2024	14:53	PP067844.D	10.67	4.76
PB164139BS	PB164139BS	10/15/2024	15:09	PP067845.D	10.67	4.75
PB164139BSD	PB164139BSD	10/15/2024	15:25	PP067846.D	10.67	4.76
AR1660CCC500	AR1660CCC500	10/15/2024	20:42	PP067865.D	10.67	4.75
I.BLK	I.BLK	10/15/2024	20:58	PP067866.D	10.67	4.75

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_P

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/08/2024 10/08/2024

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	10/08/2024	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	10/14/2024	09:11	PP067774.D	9.22	4.05
I.BLK	I.BLK	10/14/2024	11:21	PP067778.D	9.22	4.05
PB164124BL	PB164124BL	10/14/2024	14:31	PP067787.D	9.22	4.05
PB164124BS	PB164124BS	10/14/2024	14:48	PP067788.D	9.22	4.05
AR1660CCC500	AR1660CCC500	10/14/2024	15:36	PP067791.D	9.22	4.05
I.BLK	I.BLK	10/14/2024	15:52	PP067792.D	9.22	4.05
WB-301-TOP	P4397-01	10/14/2024	20:22	PP067808.D	9.22	4.05
WB-301-BOT	P4397-02	10/14/2024	20:38	PP067809.D	9.22	4.05
WB-301-BOTMS	P4397-02MS	10/14/2024	20:54	PP067810.D	9.22	4.05
WB-301-BOTMSD	P4397-02MSD	10/14/2024	21:10	PP067811.D	9.22	4.05
WB-301-SW	P4397-04	10/14/2024	21:26	PP067812.D	9.22	4.05
AR1660CCC500	AR1660CCC500	10/14/2024	22:04	PP067813.D	9.22	4.05
I.BLK	I.BLK	10/14/2024	23:09	PP067817.D	9.22	4.05

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Analytical Sequence

AR1660CCC500	AR1660CCC500	10/15/2024	09:43	PP067825.D	9.21	4.05
I.BLK	I.BLK	10/15/2024	10:47	PP067829.D	9.23	4.07
PB164139BL	PB164139BL	10/15/2024	13:16	PP067838.D	9.22	4.05
AR1660CCC500	AR1660CCC500	10/15/2024	13:48	PP067840.D	9.21	4.05
I.BLK	I.BLK	10/15/2024	14:53	PP067844.D	9.22	4.05
PB164139BS	PB164139BS	10/15/2024	15:09	PP067845.D	9.21	4.05
PB164139BSD	PB164139BSD	10/15/2024	15:25	PP067846.D	9.22	4.05
AR1660CCC500	AR1660CCC500	10/15/2024	20:42	PP067865.D	9.21	4.05
I.BLK	I.BLK	10/15/2024	20:58	PP067866.D	9.21	4.05

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB164124BS

Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab Sample ID: PB164124BS Date(s) Analyzed: 10/14/2024 10/14/2024

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 PP067788.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.922	5.872	5.972	157		
	2	5.945	5.895	5.995	152		
	3	6.008	5.958	6.058	156		
COLUMN 1	4	6.106	6.056	6.156	153		
	5	6.4	6.35	6.45	147	153	
	1	5.162	5.112	5.212	146		
	2	5.182	5.132	5.232	145		
	3	5.363	5.313	5.413	146		
	4	5.402	5.352	5.452	143		
COLUMN 2	5	5.621	5.571	5.671	141	144	6.06
Aroclor-1260	1	7.525	7.475	7.575	153		
	2	7.778	7.728	7.828	153		
	3	8.14	8.09	8.19	134		
COLUMN 1	4	8.378	8.328	8.428	140		
	5	8.716	8.666	8.766	134	143	
	1	6.666	6.616	6.716	148		
	2	6.852	6.802	6.902	148		
	3	7.01	6.96	7.06	147		
	4	7.485	7.435	7.535	130		
COLUMN 2	5	7.723	7.673	7.773	130	141	1.41

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

WB-301-BOTMS

Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab Sample ID: P4397-02MS Date(s) Analyzed: 10/14/2024 10/14/2024

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 PP067810.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.919	5.869	5.969	259		
	2	5.941	5.891	5.991	243		
	3	6.004	5.954	6.054	245		
COLUMN 1	4	6.102	6.052	6.152	242		
	5	6.397	6.347	6.447	245	247	
	1	5.159	5.109	5.209	251		
	2	5.179	5.129	5.229	242		
	3	5.36	5.31	5.41	251		
	4	5.399	5.349	5.449	236		
COLUMN 2	5	5.618	5.568	5.668	217	239	3.29
Aroclor-1260	1	7.522	7.472	7.572	229		
	2	7.776	7.726	7.826	222		
	3	8.136	8.086	8.186	189		
COLUMN 1	4	8.375	8.325	8.425	198		
	5	8.712	8.662	8.762	198	207	
	1	6.662	6.612	6.712	220		
	2	6.849	6.799	6.899	223		
	3	7.006	6.956	7.056	223		
	4	7.481	7.431	7.531	190		
COLUMN 2	5	7.719	7.669	7.769	191	210	1.44

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

WB-301-BOTMSD

Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab Sample ID: P4397-02MSD Date(s) Analyzed: 10/14/2024 10/14/2024

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 PP067811.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.918	5.868	5.968	255		
	2	5.94	5.89	5.99	239		
	3	6.004	5.954	6.054	245		
COLUMN 1	4	6.102	6.052	6.152	245		
	5	6.396	6.346	6.446	248	246	
	1	5.16	5.11	5.21	244		
	2	5.18	5.13	5.23	241		
	3	5.36	5.31	5.41	244		
	4	5.4	5.35	5.45	235		
COLUMN 2	5	5.619	5.569	5.669	218	236	4.15
Aroclor-1260	1	7.52	7.47	7.57	232		
	2	7.774	7.724	7.824	223		
	3	8.135	8.085	8.185	189		
COLUMN 1	4	8.372	8.322	8.422	200		
	5	8.709	8.659	8.759	199	209	
	1	6.663	6.613	6.713	221		
	2	6.849	6.799	6.899	223		
	3	7.007	6.957	7.057	224		
	4	7.482	7.432	7.532	192		
COLUMN 2	5	7.719	7.669	7.769	194	211	0.95

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB164139BS

Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab Sample ID: PB164139BS Date(s) Analyzed: 10/15/2024 10/15/2024

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 PP067845.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.916	5.866	5.966	4.69		
	2	5.938	5.888	5.988	4.65		
	3	6.003	5.953	6.053	4.60		
COLUMN 1	4	6.101	6.051	6.151	4.46		
	5	6.395	6.345	6.445	4.45	4.60	
	1	5.159	5.109	5.209	4.24		
	2	5.179	5.129	5.229	4.29		
	3	5.359	5.309	5.409	4.31		
	4	5.399	5.349	5.449	4.18		
COLUMN 2	5	5.617	5.567	5.667	4.14	4.20	9.09
Aroclor-1260	1	7.519	7.469	7.569	4.67		
	2	7.772	7.722	7.822	4.61		
	3	8.134	8.084	8.184	3.94		
COLUMN 1	4	8.372	8.322	8.422	4.19		
	5	8.71	8.66	8.76	4.05	4.30	
	1	6.662	6.612	6.712	4.32		
	2	6.848	6.798	6.898	4.33		
	3	7.005	6.955	7.055	4.38		
	4	7.48	7.43	7.53	3.87		
COLUMN 2	5	7.719	7.669	7.769	3.93	4.20	2.35

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB164139BSD

Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab Sample ID: PB164139BSD Date(s) Analyzed: 10/15/2024 10/15/2024

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 PP067846.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.919	5.869	5.969	4.38		
	2	5.941	5.891	5.991	4.34		
	3	6.005	5.955	6.055	4.30		
COLUMN 1	4	6.103	6.053	6.153	4.19		
	5	6.397	6.347	6.447	4.09	4.30	
	1	5.16	5.11	5.21	4.02		
	2	5.18	5.13	5.23	4.02		
	3	5.36	5.31	5.41	4.10		
	4	5.4	5.35	5.45	3.98		
COLUMN 2	5	5.618	5.568	5.668	3.92	4.00	7.23
Aroclor-1260	1	7.521	7.471	7.571	4.46		
	2	7.775	7.725	7.825	4.33		
	3	8.136	8.086	8.186	3.72		
COLUMN 1	4	8.374	8.324	8.424	3.95		
	5	8.712	8.662	8.762	3.79	4.10	
	1	6.662	6.612	6.712	4.11		
	2	6.849	6.799	6.899	4.07		
	3	7.007	6.957	7.057	4.12		
	4	7.481	7.431	7.531	3.67		
COLUMN 2	5	7.72	7.67	7.77	3.66	3.90	5

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067808.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 20:22
Operator : YP\AJ
Sample : P4397-01
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
WB-301-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 02:00:30 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...	4.755	4.051	14577869	15831979	15.749	15.669m
2)	SA Decachlor...	10.668	9.216	16928146	15444554	14.703	13.772
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

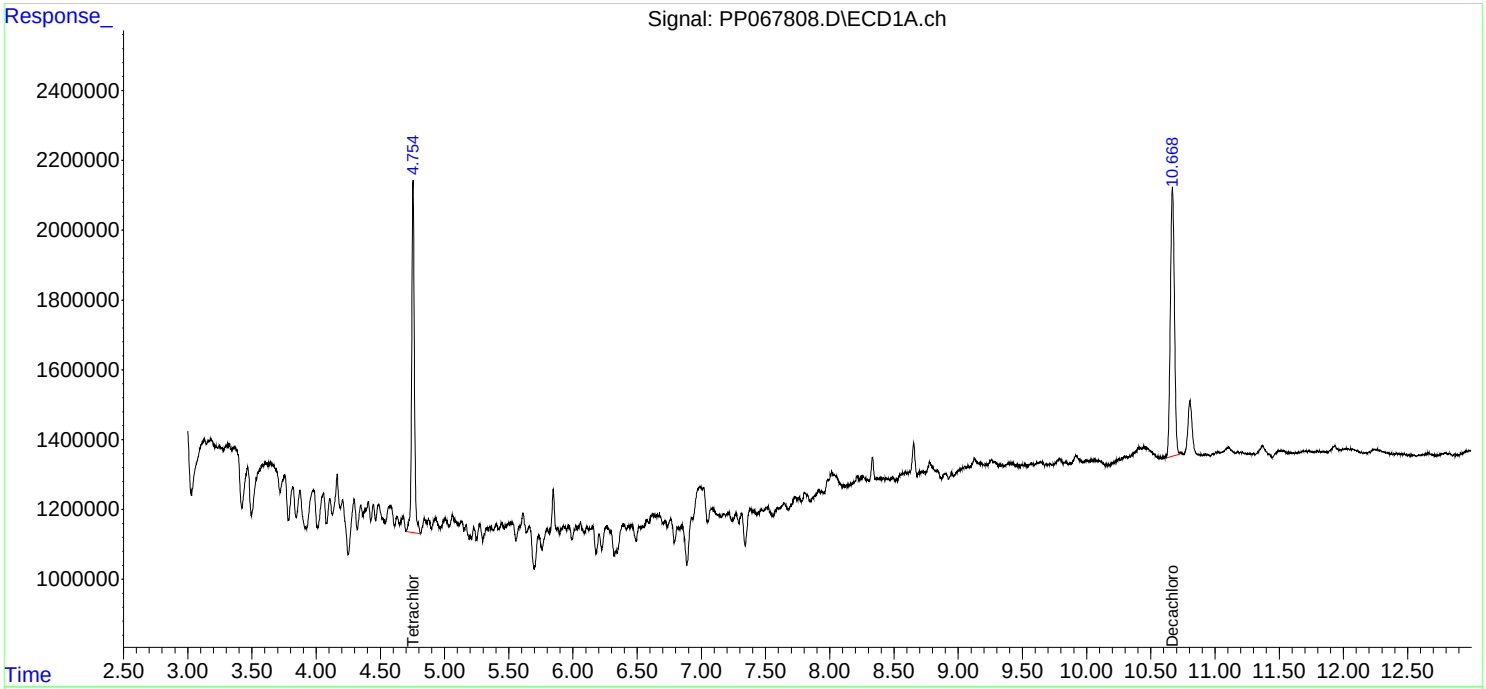
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067808.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 20:22
Operator : YP\AJ
Sample : P4397-01
Misc :
ALS Vial : 34 Sample Multiplier: 1

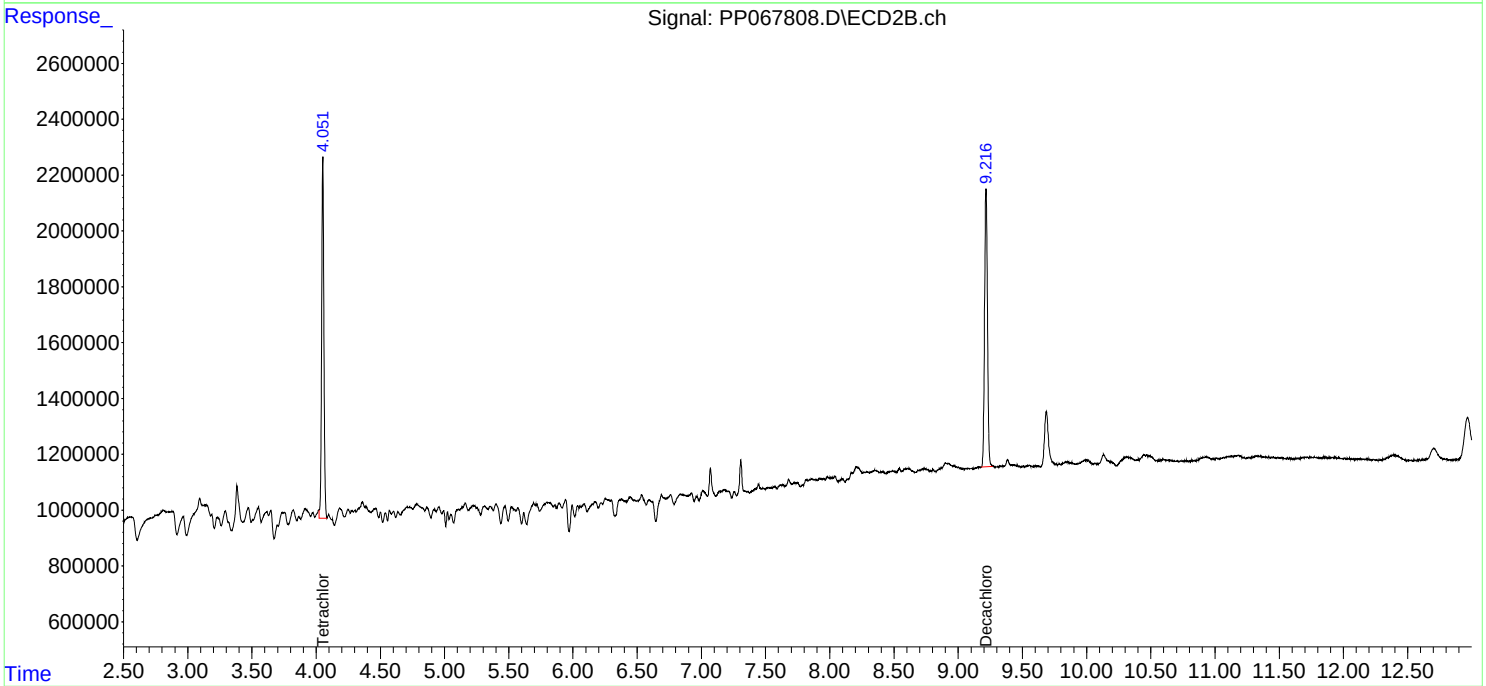
Instrument :
ECD_P
ClientSampleId :
WB-301-TOP

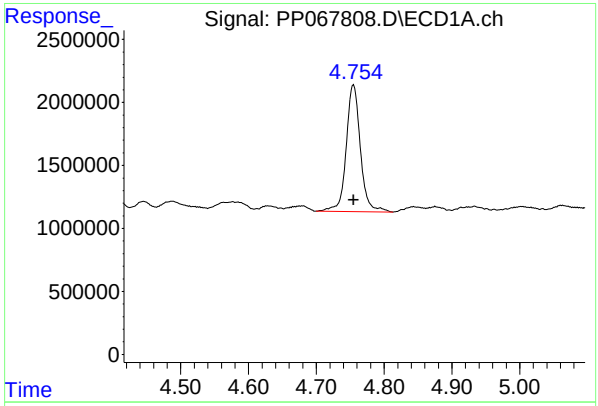
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 02:00:30 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







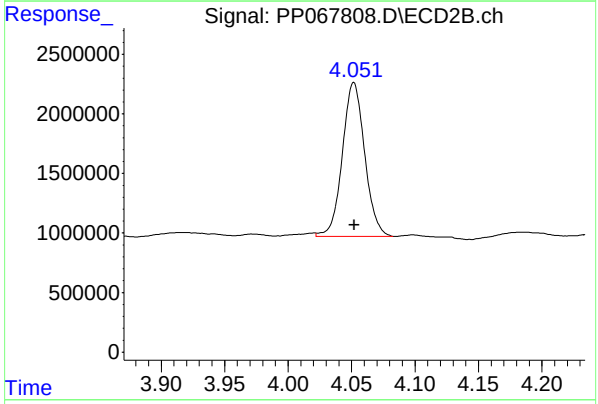
#1 Tetrachloro-m-xylene

R.T.: 4.755 min
Delta R.T.: 0.000 mi
Response: 14577869
Conc: 15.75 ng/m

Instrument :
ECD_P
ClientSampleId :
WB-301-TOP

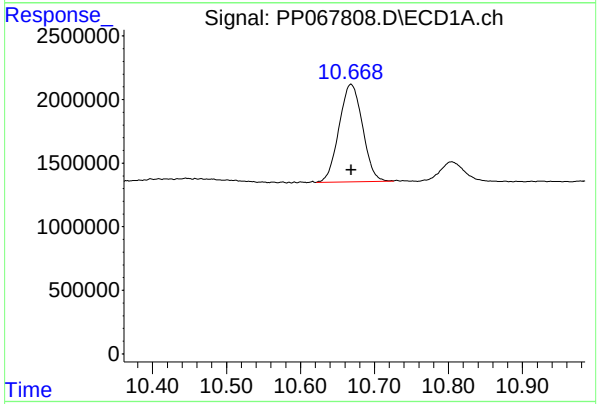
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024



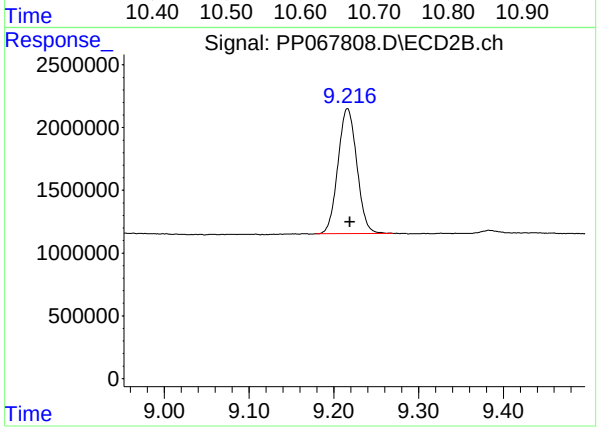
#1 Tetrachloro-m-xylene

R.T.: 4.051 min
Delta R.T.: 0.000 min
Response: 15831979
Conc: 15.67 ng/ml m



#2 Decachlorobiphenyl

R.T.: 10.668 min
Delta R.T.: 0.000 min
Response: 16928146
Conc: 14.70 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.216 min
Delta R.T.: -0.003 min
Response: 15444554
Conc: 13.77 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067809.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 20:38
Operator : YP\AJ
Sample : P4397-02
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
WB-301-BOT

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 02:01:08 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...	4.755	4.052	18965615	20485844	20.489	20.275
2)	SA Decachlor...	10.670	9.217	19699653	17967135	17.111	16.021
	Target Compounds						

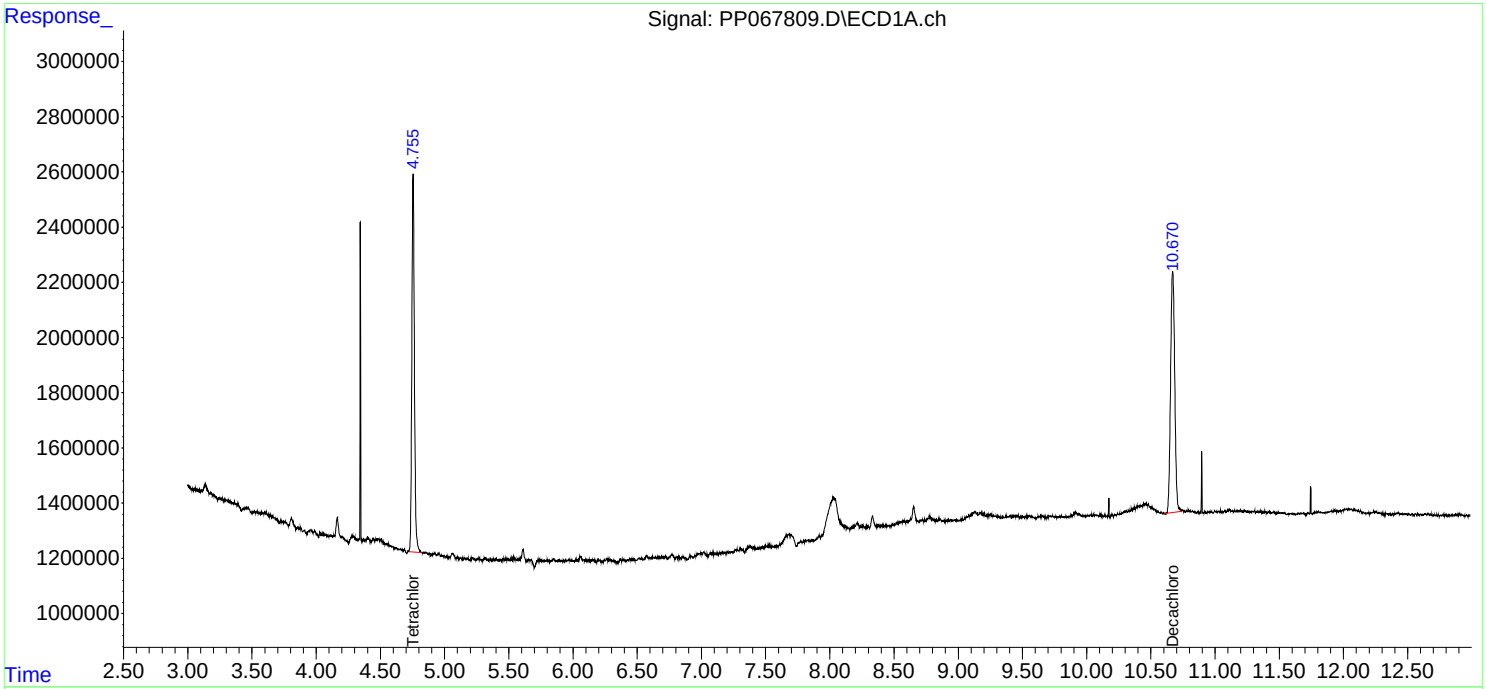
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

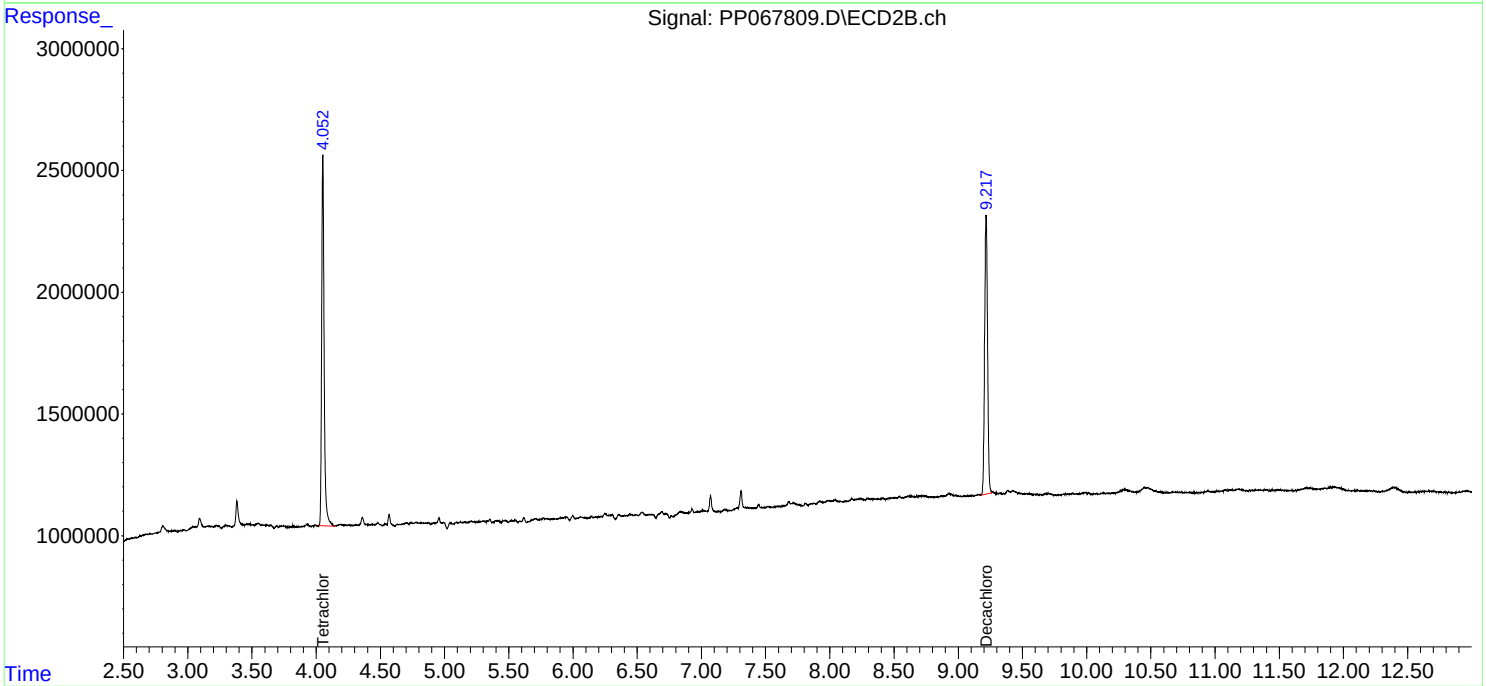
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067809.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 20:38
Operator : YP\AJ
Sample : P4397-02
Misc :
ALS Vial : 35 Sample Multiplier: 1

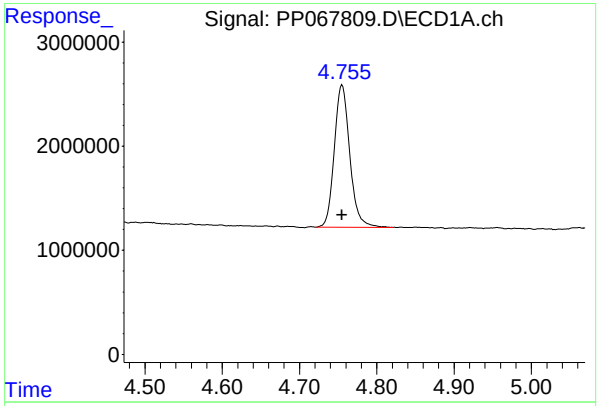
Instrument :
ECD_P
ClientSampleId :
WB-301-BOT

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 02:01:08 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



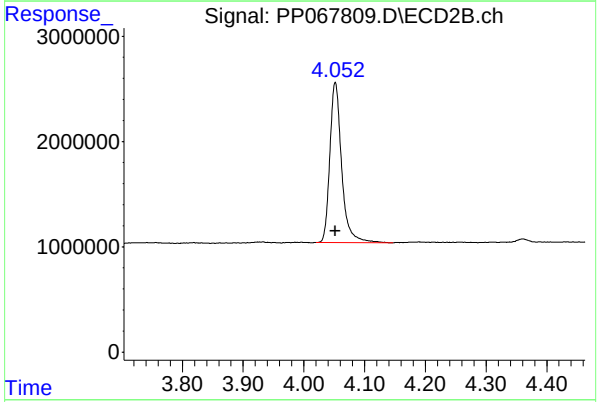




#1 Tetrachloro-m-xylene

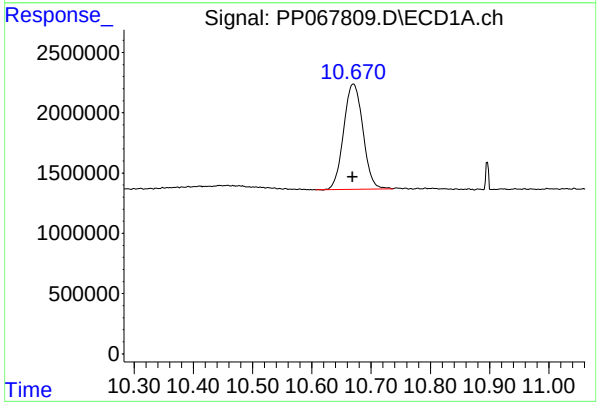
R.T.: 4.755 min
Delta R.T.: 0.000 min
Response: 18965615
Conc: 20.49 ng/ml

Instrument :
ECD_P
ClientSampleId :
WB-301-BOT



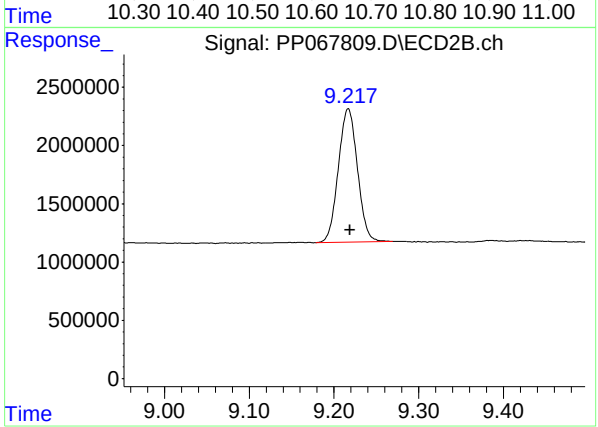
#1 Tetrachloro-m-xylene

R.T.: 4.052 min
Delta R.T.: 0.000 min
Response: 20485844
Conc: 20.27 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.670 min
Delta R.T.: 0.001 min
Response: 19699653
Conc: 17.11 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.217 min
Delta R.T.: -0.002 min
Response: 17967135
Conc: 16.02 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067812.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 21:26
Operator : YP\AJ
Sample : P4397-04
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
WB-301-SW

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 02:03:00 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...	4.755	4.052	19501118	20301118	21.068	20.092
2)	SA Decachlor...	10.668	9.215	22429565	20453698	19.482	18.238
	Target Compounds						

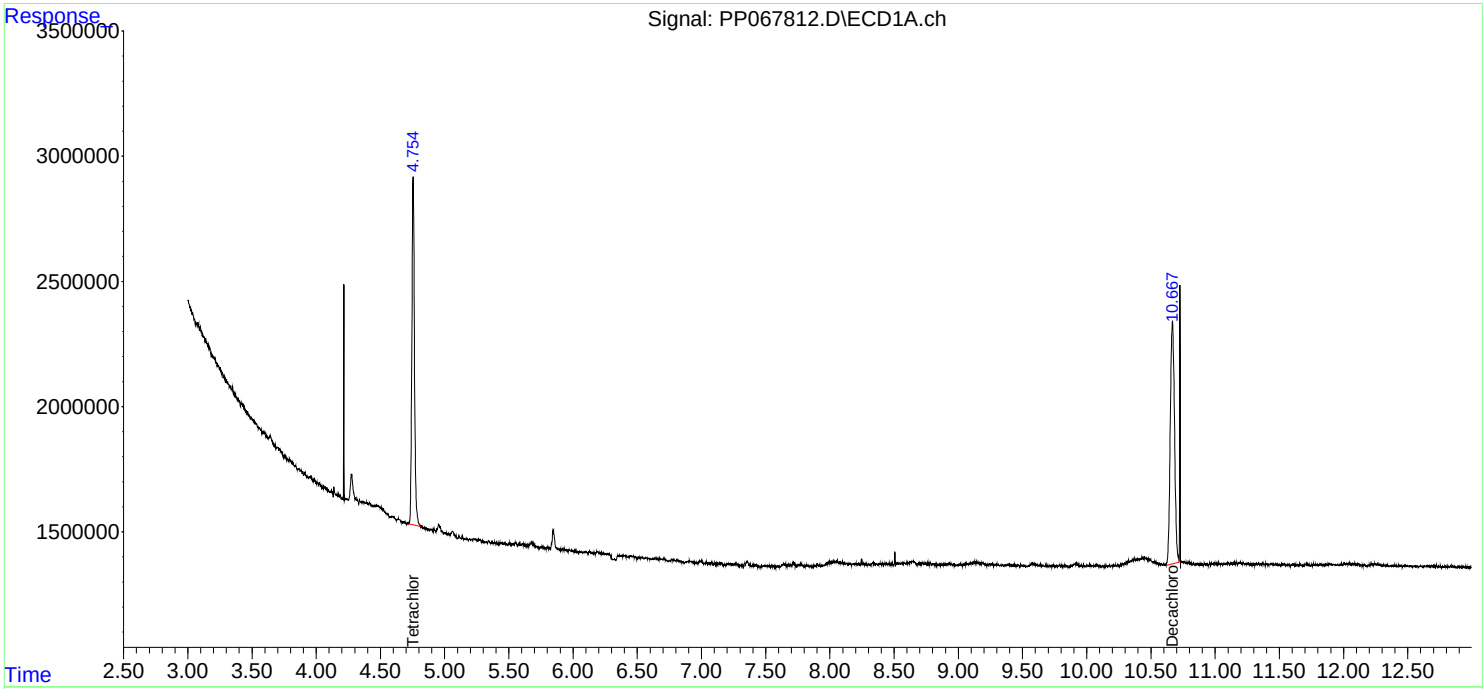
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

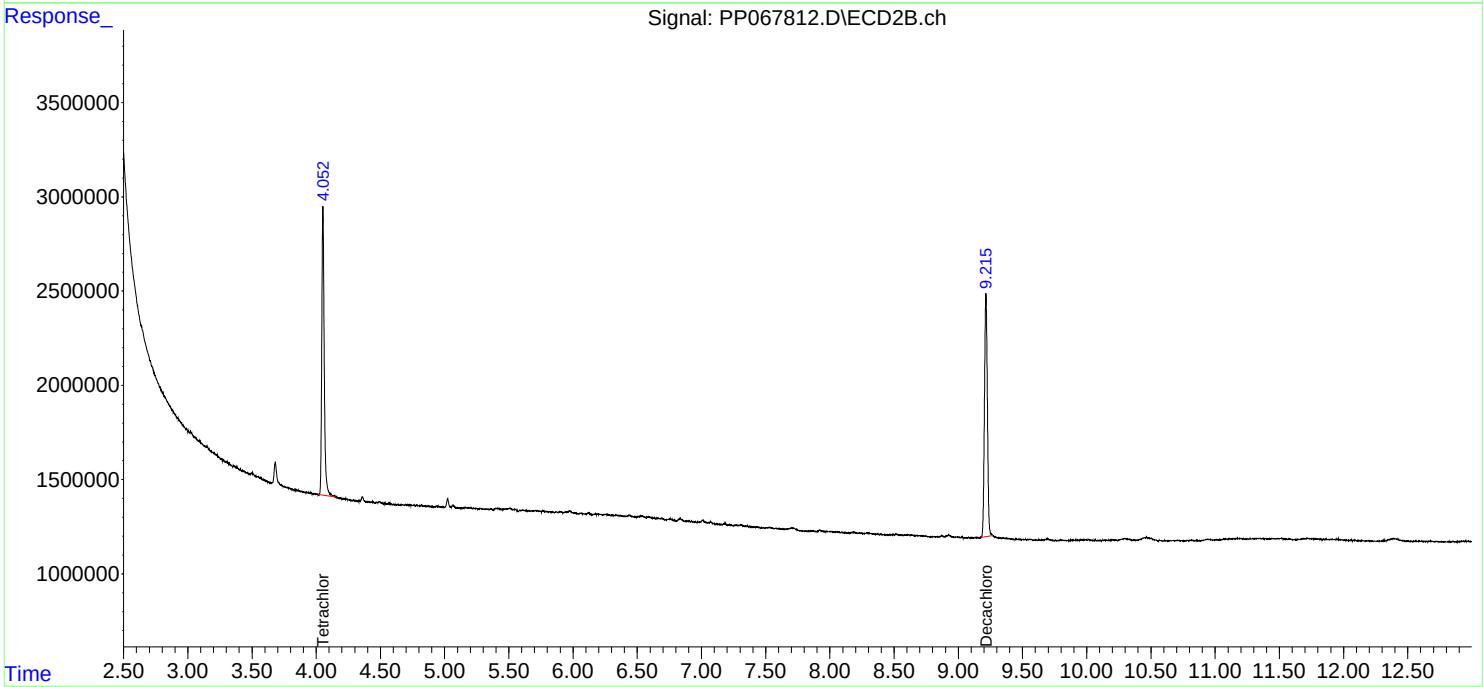
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067812.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 21:26
Operator : YP\AJ
Sample : P4397-04
Misc :
ALS Vial : 48 Sample Multiplier: 1

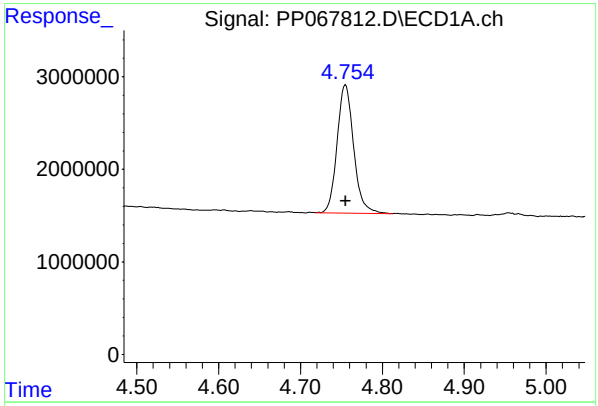
Instrument :
ECD_P
ClientSampleId :
WB-301-SW

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 02:03:00 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



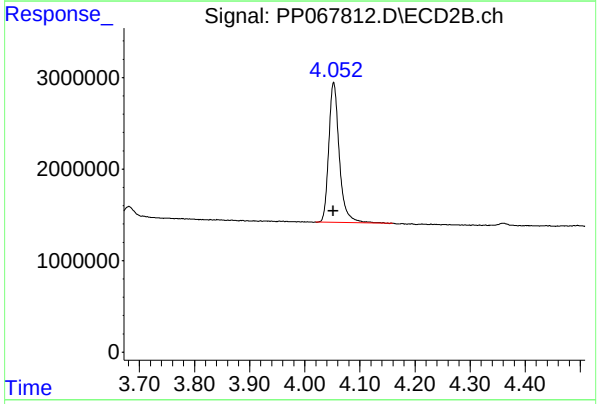




#1 Tetrachloro-m-xylene

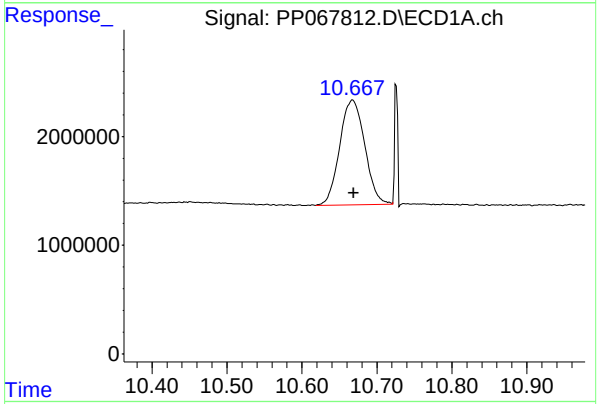
R.T.: 4.755 min
Delta R.T.: 0.000 min
Response: 19501118
Conc: 21.07 ng/ml

Instrument :
ECD_P
ClientSampleId :
WB-301-SW



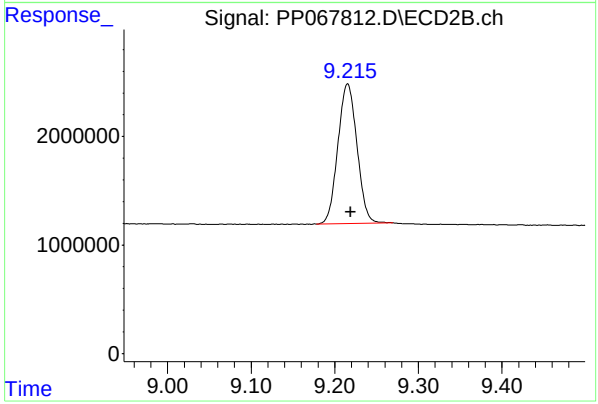
#1 Tetrachloro-m-xylene

R.T.: 4.052 min
Delta R.T.: 0.000 min
Response: 20301118
Conc: 20.09 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.668 min
Delta R.T.: -0.001 min
Response: 22429565
Conc: 19.48 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.215 min
Delta R.T.: -0.004 min
Response: 20453698
Conc: 18.24 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067787.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 14:31
Operator : YP\AJ
Sample : PB164124BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164124BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 16:08:50 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...	4.756	4.053	17608248	18760186	19.023	18.567
2)	SA Decachlor...	10.674	9.219	25622093	21714892	22.255	19.363
	Target Compounds						

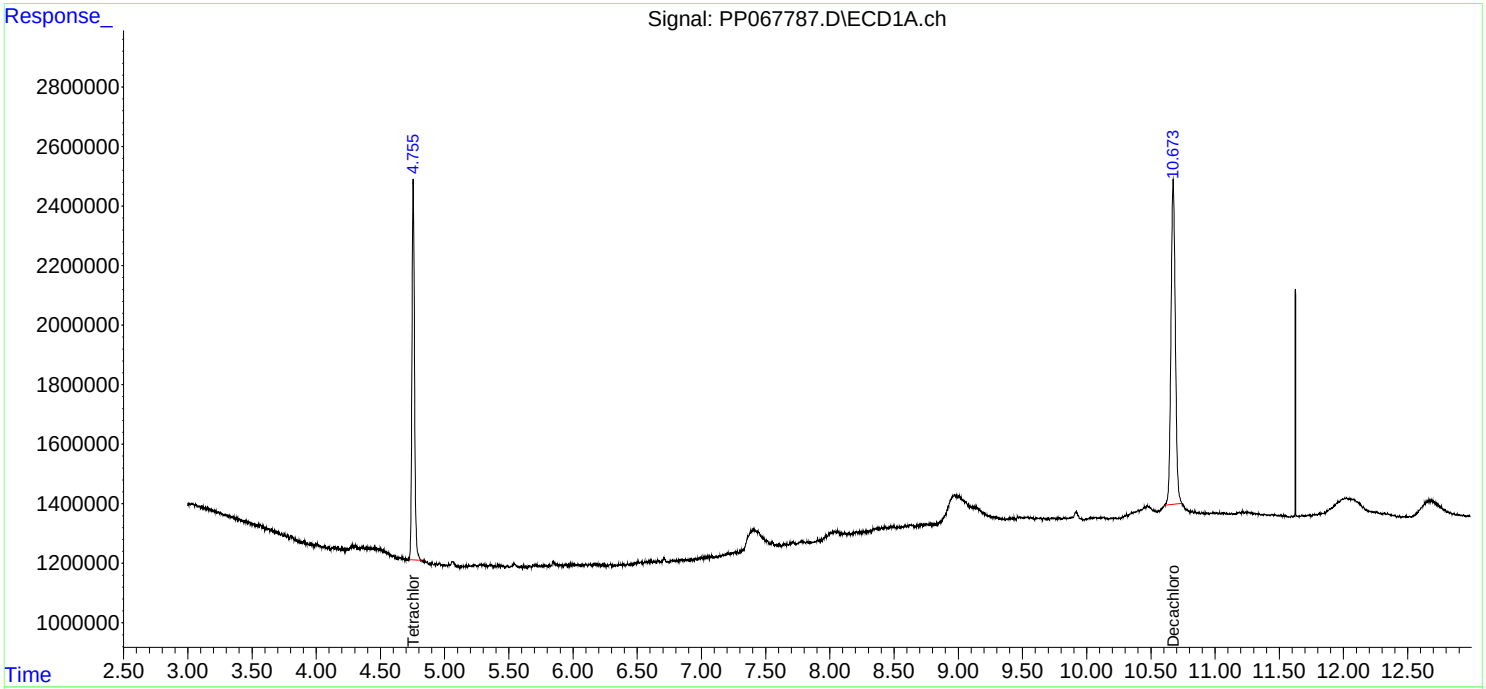
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

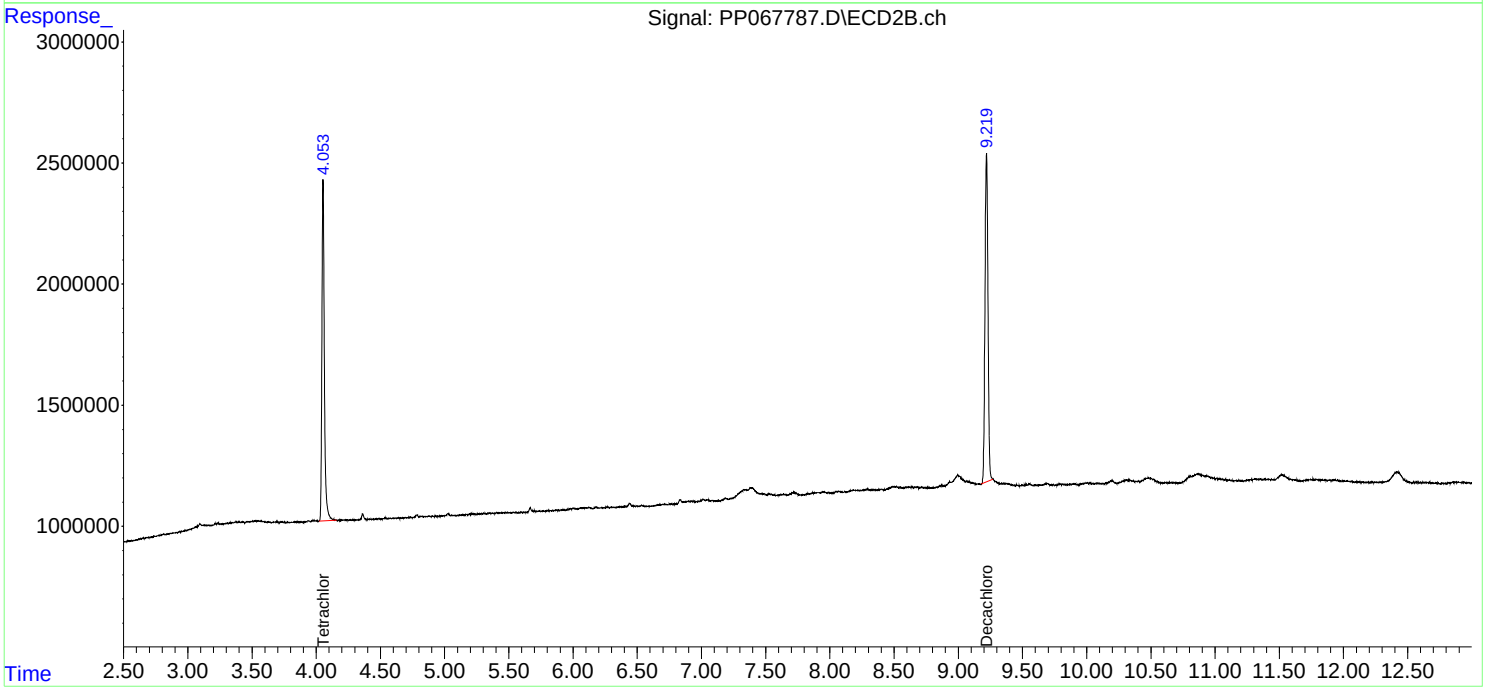
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067787.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 14:31
Operator : YP\AJ
Sample : PB164124BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

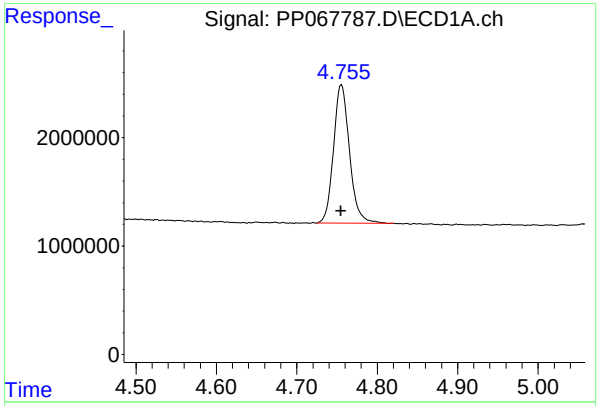
Instrument :
ECD_P
ClientSampleId :
PB164124BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 16:08:50 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



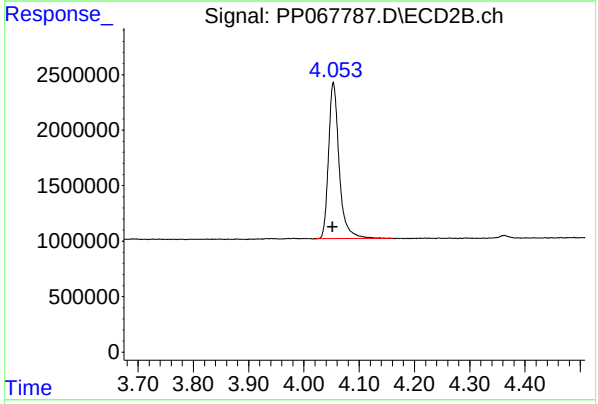




#1 Tetrachloro-m-xylene

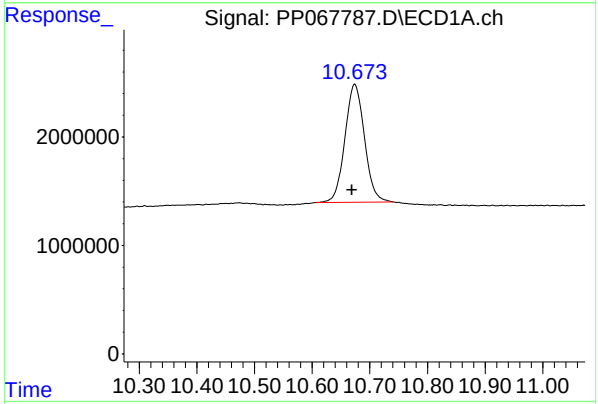
R.T.: 4.756 min
Delta R.T.: 0.000 min
Response: 17608248
Conc: 19.02 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB164124BL



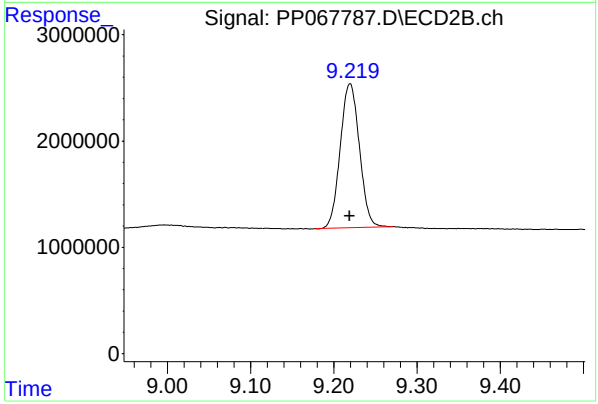
#1 Tetrachloro-m-xylene

R.T.: 4.053 min
Delta R.T.: 0.001 min
Response: 18760186
Conc: 18.57 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.674 min
Delta R.T.: 0.005 min
Response: 25622093
Conc: 22.25 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.219 min
Delta R.T.: 0.000 min
Response: 21714892
Conc: 19.36 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101524\
Data File : PP067838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2024 13:16
Operator : YP\AJ
Sample : PB164139BL
Misc :
ALS Vial : 49 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164139BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 13:46:00 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...	4.754	4.051	19808127	20669800	21.399	20.457
2)	SA Decachlor...	10.668	9.215	25676058	24216588	22.302	21.594
	Target Compounds						

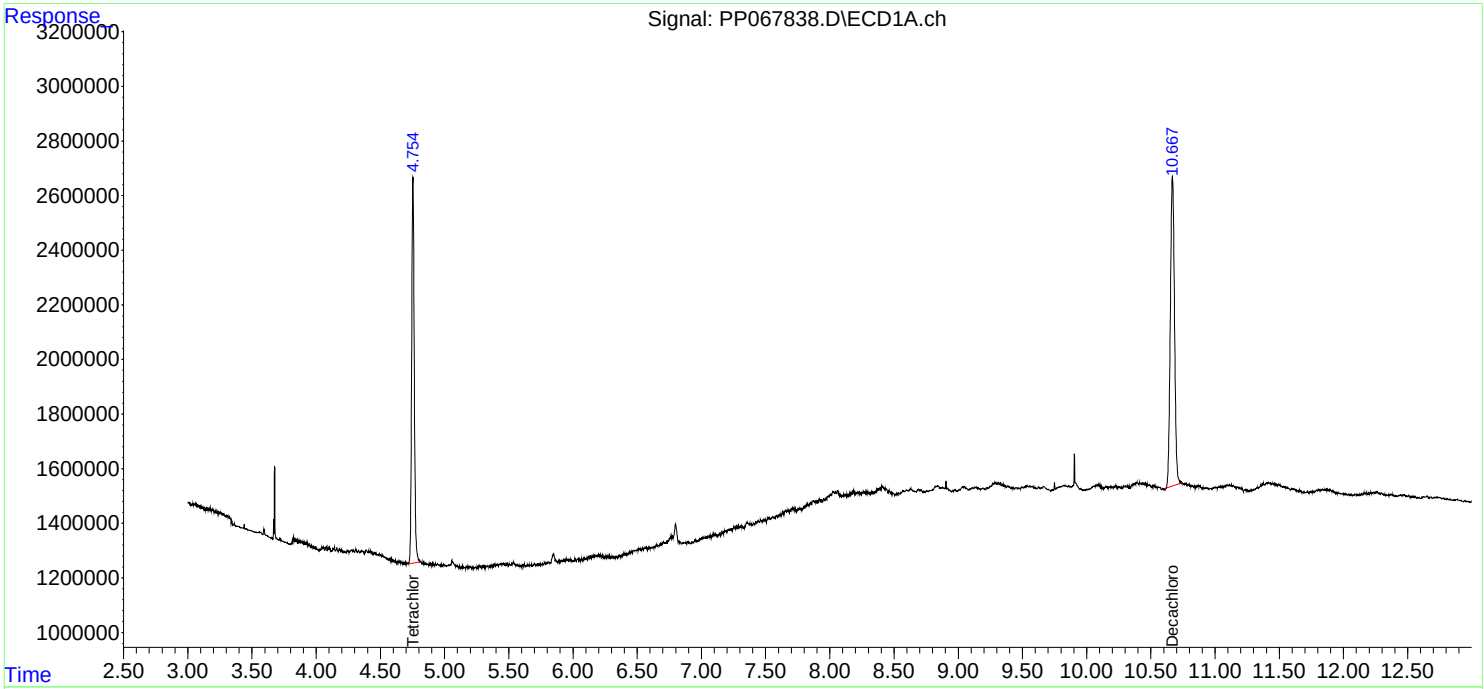
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

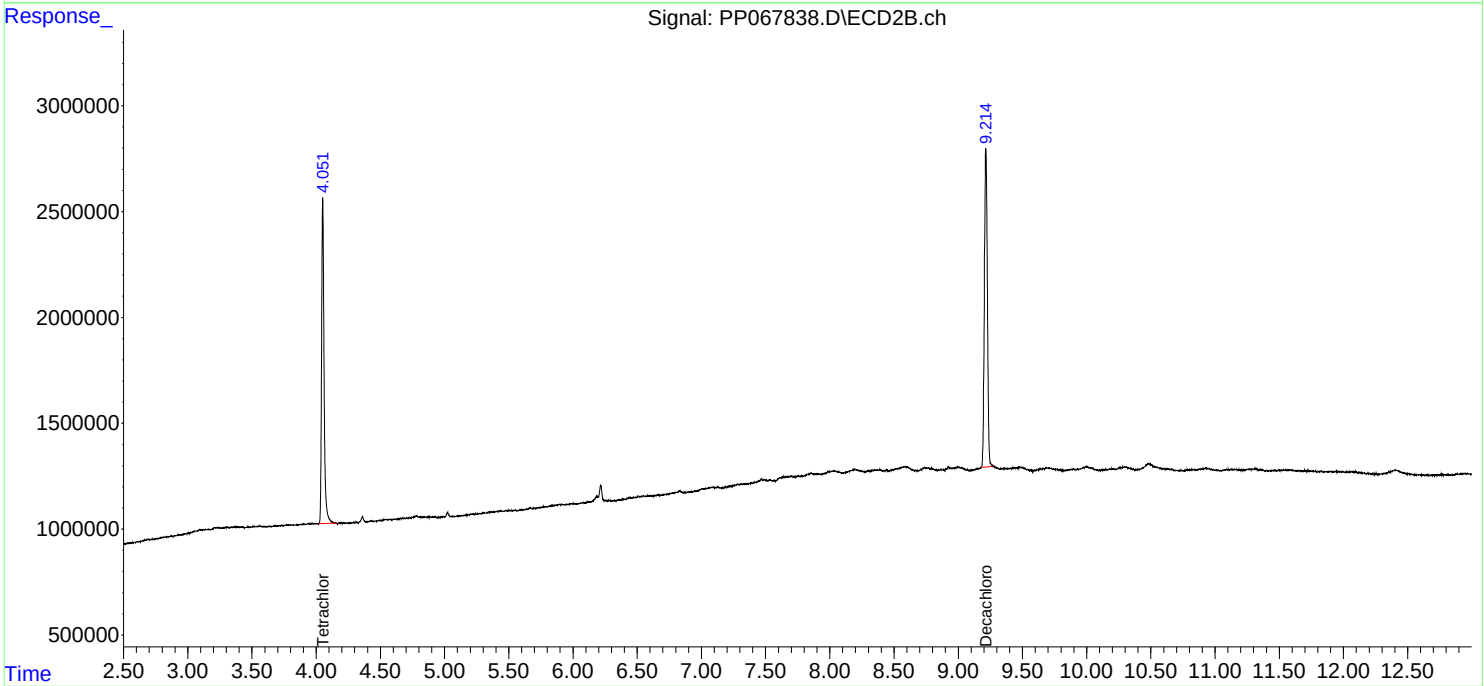
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101524\
Data File : PP067838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2024 13:16
Operator : YP\AJ
Sample : PB164139BL
Misc :
ALS Vial : 49 Sample Multiplier: 1

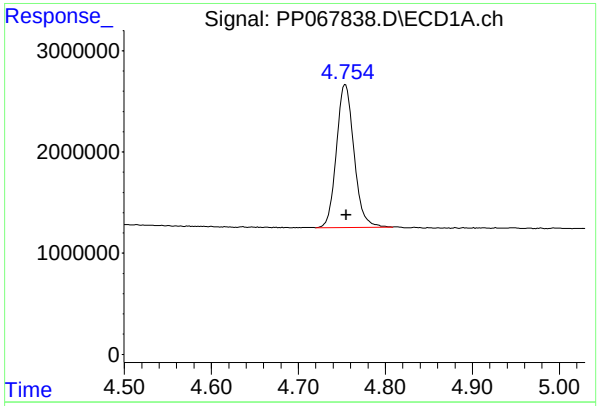
Instrument :
ECD_P
ClientSampleId :
PB164139BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 13:46:00 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



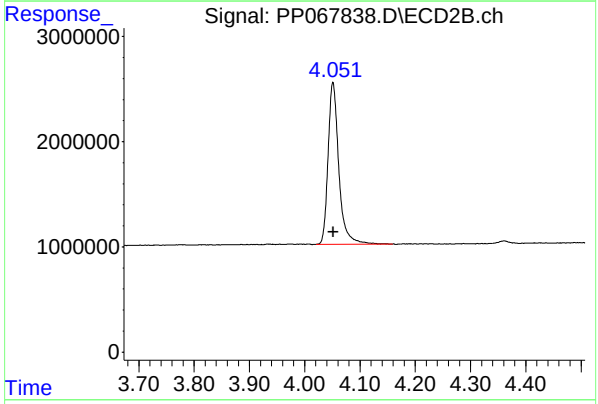




#1 Tetrachloro-m-xylene

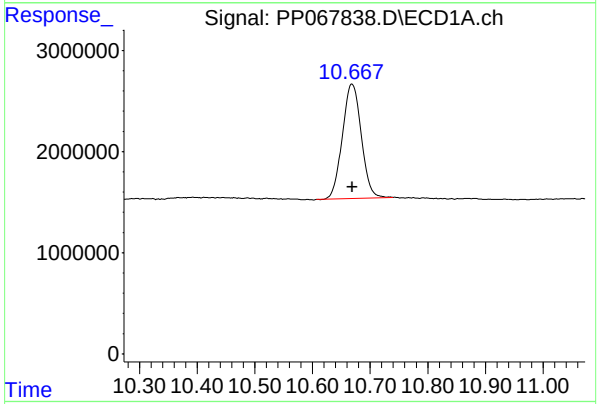
R.T.: 4.754 min
Delta R.T.: 0.000 min
Response: 19808127
Conc: 21.40 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB164139BL



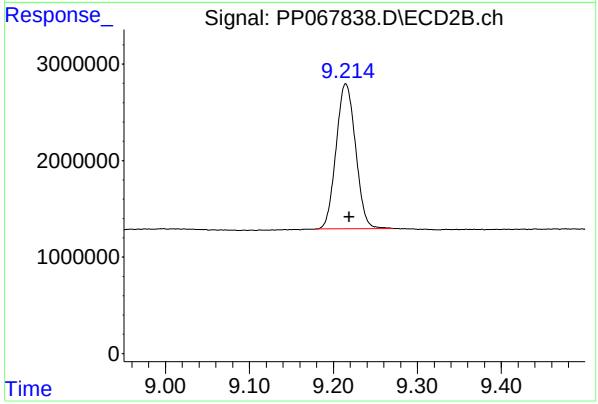
#1 Tetrachloro-m-xylene

R.T.: 4.051 min
Delta R.T.: 0.000 min
Response: 20669800
Conc: 20.46 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.668 min
Delta R.T.: 0.000 min
Response: 25676058
Conc: 22.30 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.215 min
Delta R.T.: -0.004 min
Response: 24216588
Conc: 21.59 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067788.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 14:48
Operator : YP\AJ
Sample : PB164124BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164124BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 16:09:34 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...	4.758	4.054	18439882	18536253	19.921	18.345
2)	SA Decachlor...	10.676	9.221	24582917	23012775	21.352	20.520
	Target Compounds						
3)	L1 AR-1016-1	5.922	5.162	15589578	15293231	471.459	437.109
4)	L1 AR-1016-2	5.945	5.182	22242866	20983799	456.069	435.633
5)	L1 AR-1016-3	6.008	5.363	14729990	11832676	467.441	439.264
6)	L1 AR-1016-4	6.106	5.402	11796172	10368220	458.217	430.483
7)	L1 AR-1016-5	6.400	5.621	11981034	12892384	442.645	423.954
31)	L7 AR-1260-1	7.525	6.666	24760092	25241581	458.319	443.130
32)	L7 AR-1260-2	7.778	6.852	29027175	29691121	458.777	445.115
33)	L7 AR-1260-3	8.140	7.010	20842309	28204614	401.982	442.765
34)	L7 AR-1260-4	8.378	7.485	25231915	21617239	419.174	390.960
35)	L7 AR-1260-5	8.716	7.723	43256373	47874263	401.593	391.454

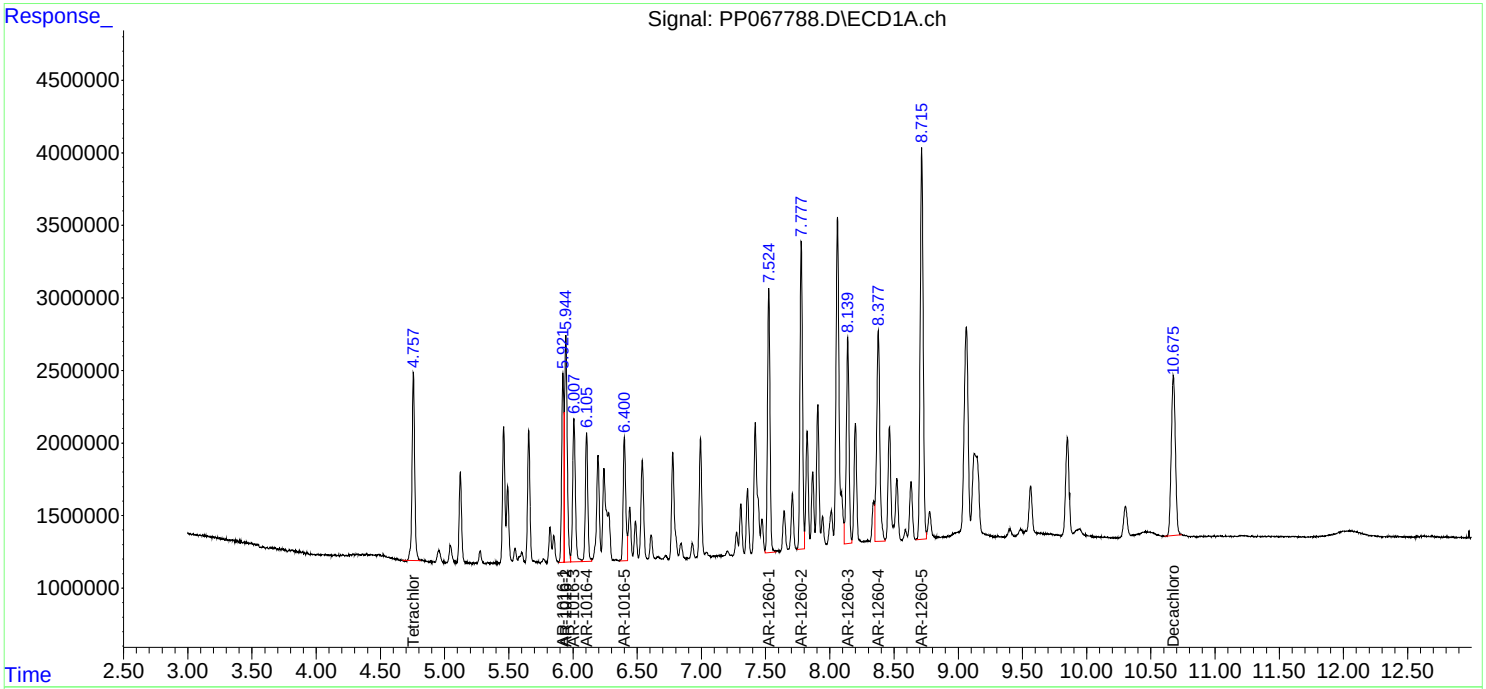
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

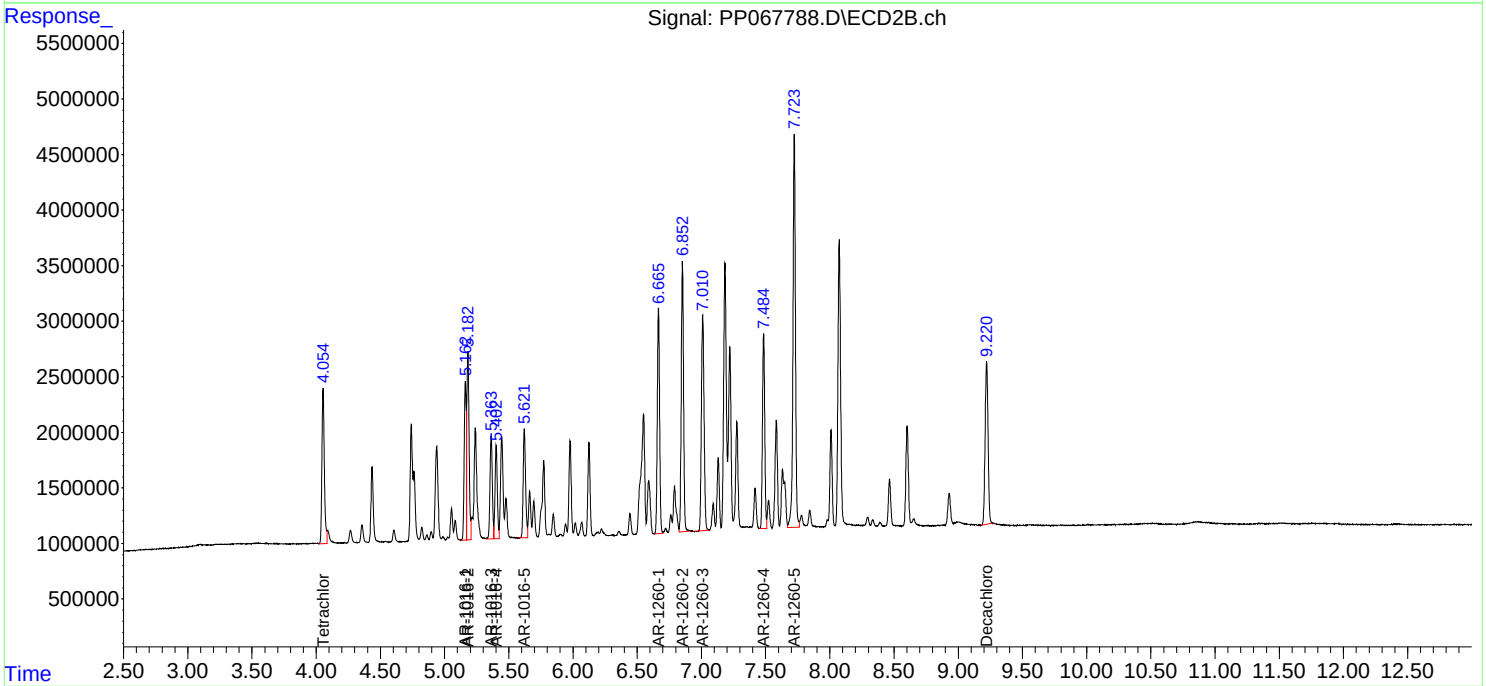
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067788.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 14:48
Operator : YP\AJ
Sample : PB164124BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164124BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 16:09:34 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\PP101524\
Data File : PP067845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2024 15:09
Operator : YP\AJ
Sample : PB164139BS
Misc :
ALS Vial : 50 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164139BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 15:50:17 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...	4.752	4.051	20299193	20946762	21.930	20.731
2)	SA Decachlor...	10.668	9.214	27050049	25157992	23.495	22.433
	Target Compounds						
3)	L1 AR-1016-1	5.916	5.159	15511309	14849769	469.092	424.434
4)	L1 AR-1016-2	5.938	5.179	22683435	20643794	465.102	428.574
5)	L1 AR-1016-3	6.003	5.359	14494017	11605247	459.953	430.821
6)	L1 AR-1016-4	6.101	5.399	11485856	10062360	446.163	417.783
7)	L1 AR-1016-5	6.395	5.617	12039093	12577045	444.790	413.584
31)	L7 AR-1260-1	7.519	6.662	25204684	24592027	466.549	431.727
32)	L7 AR-1260-2	7.772	6.848	29160734	28872328	460.888	432.840
33)	L7 AR-1260-3	8.134	7.005	20453309	27880165	394.480	437.671
34)	L7 AR-1260-4	8.372	7.480	25236416	21408658	419.248	387.187
35)	L7 AR-1260-5	8.710	7.719	43580497	48005233	404.602	392.525

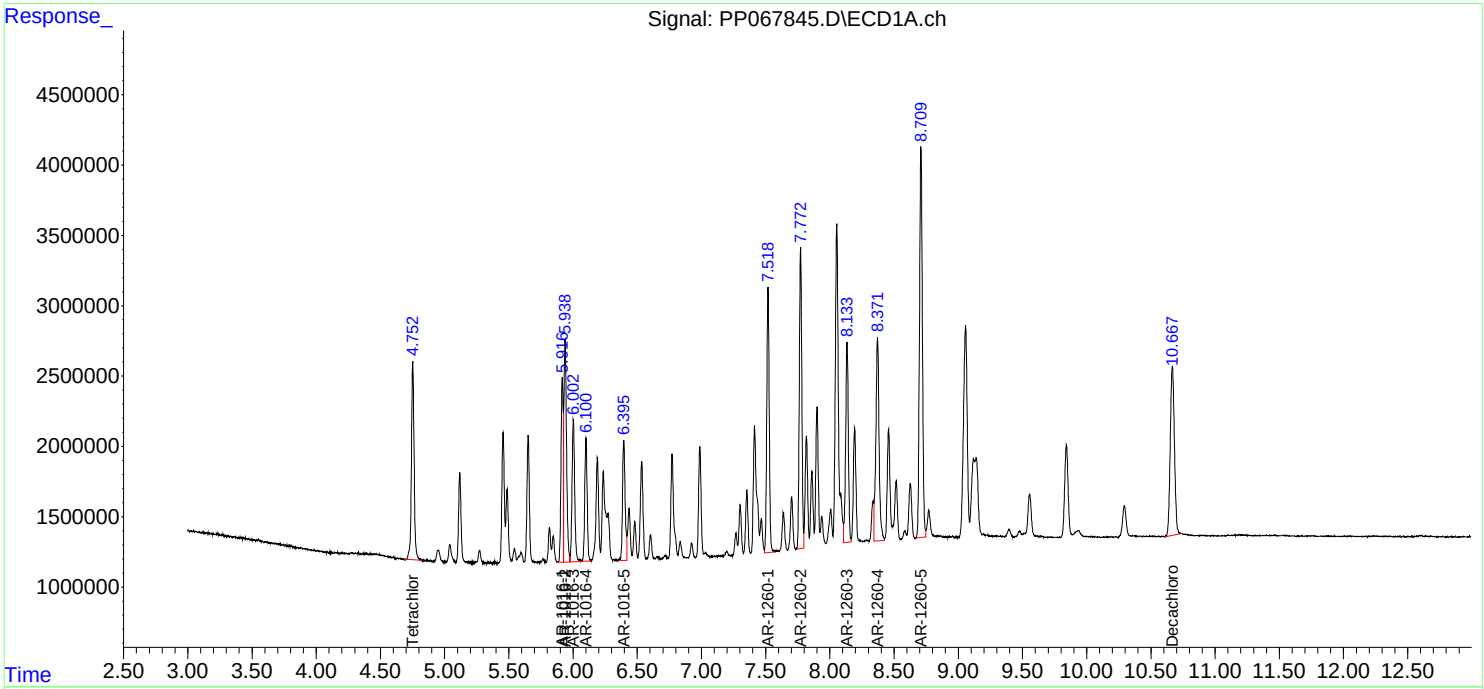
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

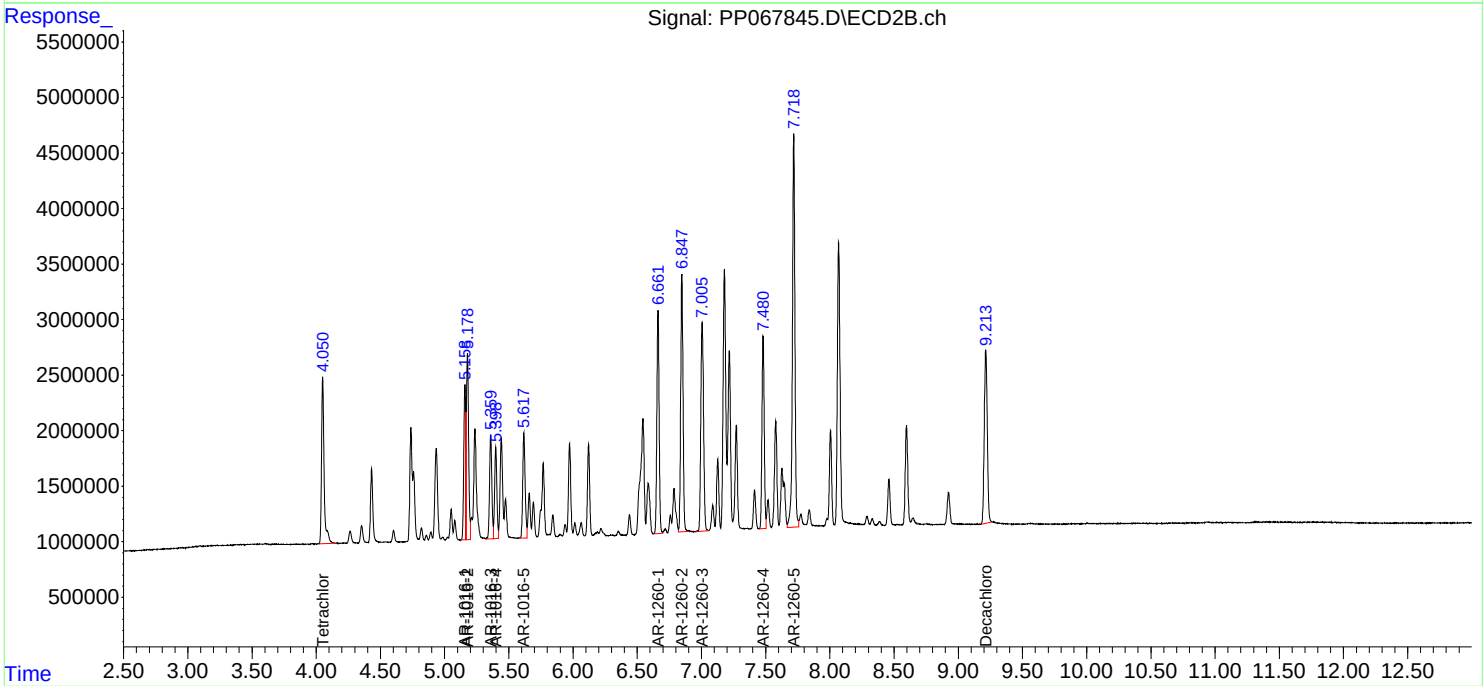
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101524\
Data File : PP067845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2024 15:09
Operator : YP\AJ
Sample : PB164139BS
Misc :
ALS Vial : 50 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164139BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 15:50:17 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\PP101524\
Data File : PP067846.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2024 15:25
Operator : YP\AJ
Sample : PB164139BSD
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164139BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 15:50:54 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...	4.755	4.052	18912586	18679354	20.432	18.487
2)	SA Decachlor...	10.669	9.215	25228261	23571481	21.913	21.019
	Target Compounds						
3)	L1 AR-1016-1	5.919	5.160	14481386	14058869	437.945	401.828
4)	L1 AR-1016-2	5.941	5.180	21182688	19372640	434.331	402.184
5)	L1 AR-1016-3	6.005	5.360	13553883	11037617	430.119	409.749
6)	L1 AR-1016-4	6.103	5.400	10779607	9583481	418.729	397.901
7)	L1 AR-1016-5	6.397	5.618	11070831	11934569	409.017	392.457
31)	L7 AR-1260-1	7.521	6.662	24081483	23394946	445.758	410.712
32)	L7 AR-1260-2	7.775	6.849	27424330	27171559	433.444	407.343
33)	L7 AR-1260-3	8.136	7.007	19267815	26272723	371.615	412.437
34)	L7 AR-1260-4	8.374	7.481	23784034	20274823	395.120	366.681
35)	L7 AR-1260-5	8.712	7.720	40848780	44796722	379.240	366.290

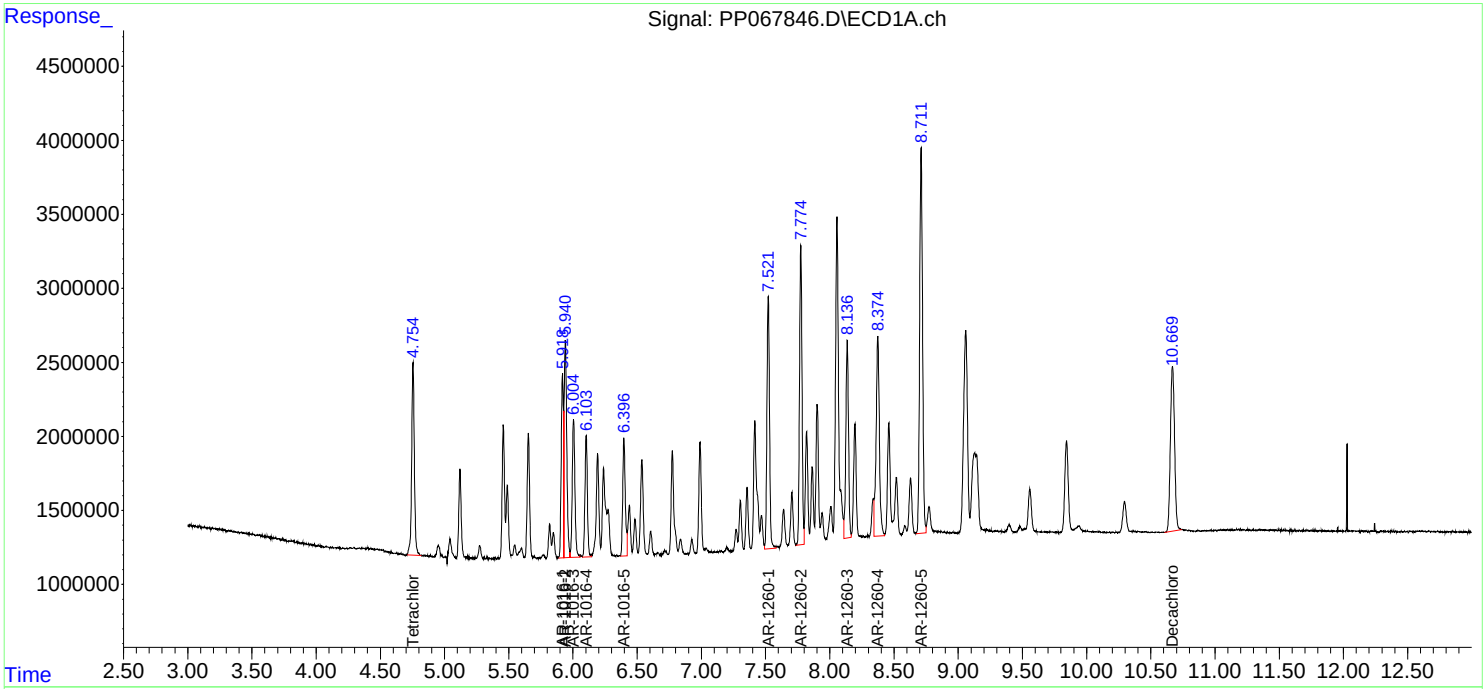
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

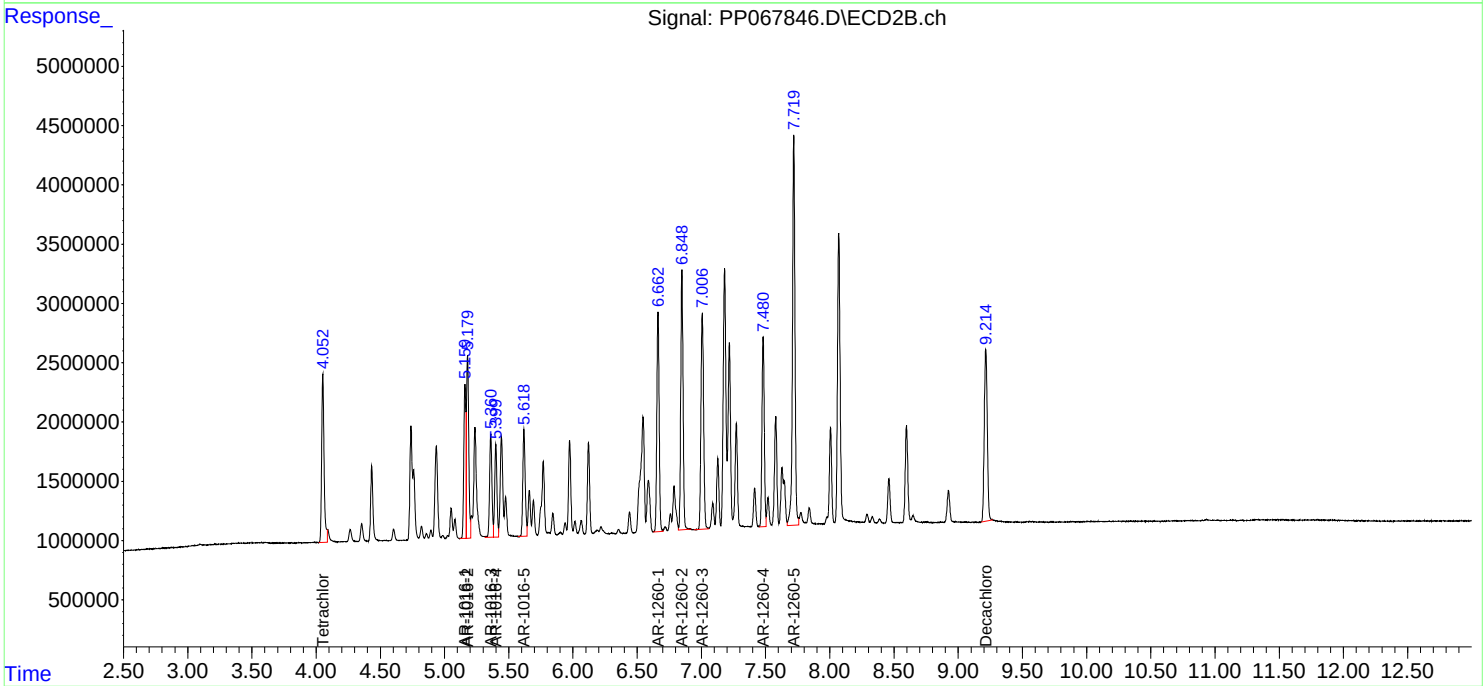
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101524\
Data File : PP067846.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2024 15:25
Operator : YP\AJ
Sample : PB164139BSD
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164139BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 15:50:54 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\PP101424\
Data File : PP067810.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 20:54
Operator : YP\AJ
Sample : P4397-02MS
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 02:01:43 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...	4.755	4.051	22471515	21117773	24.277	20.900
2)	SA Decachlor...	10.666	9.215	23095291	20461769	20.060	18.246
	Target Compounds						
3)	L1 AR-1016-1	5.919	5.159	19538289	20027505	590.875m	572.423
4)	L1 AR-1016-2	5.941	5.179	27058160	26640473	554.802m	553.068
5)	L1 AR-1016-3	6.004	5.360	17639262	15413143	559.764m	572.182
6)	L1 AR-1016-4	6.102	5.399	14219136	12999551	552.336m	539.734
7)	L1 AR-1016-5	6.397	5.618	15126248	15047058	558.847m	494.808
31)	L7 AR-1260-1	7.522	6.662	28259455	28645786	523.094	502.893
32)	L7 AR-1260-2	7.776	6.849	32090645	33890097	507.195	508.064
33)	L7 AR-1260-3	8.136	7.006	22405008	32498522	432.122	510.172
34)	L7 AR-1260-4	8.375	7.481	27197271	24029385	451.824	434.585
35)	L7 AR-1260-5	8.712	7.719	48744394	53333461	452.543	436.092

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

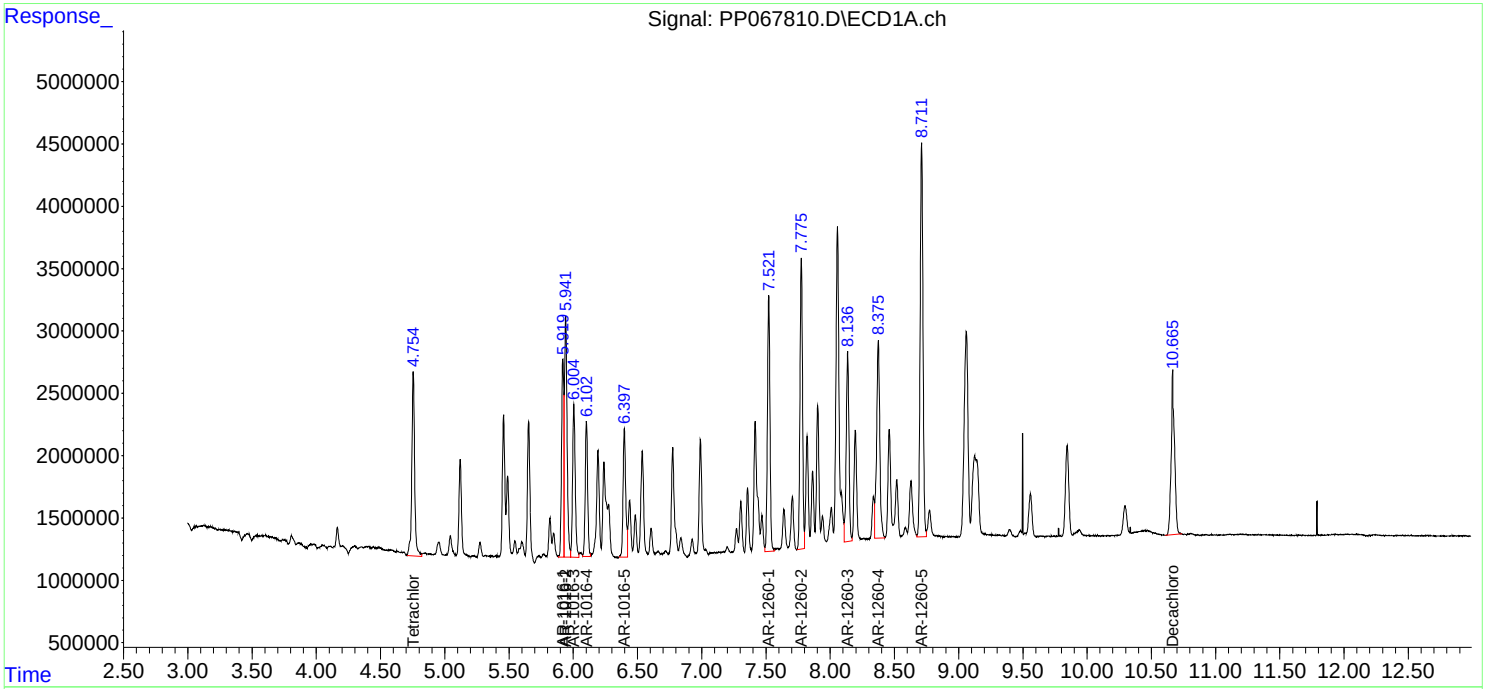
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067810.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 20:54
Operator : YP\AJ
Sample : P4397-02MS
Misc :
ALS Vial : 36 Sample Multiplier: 1

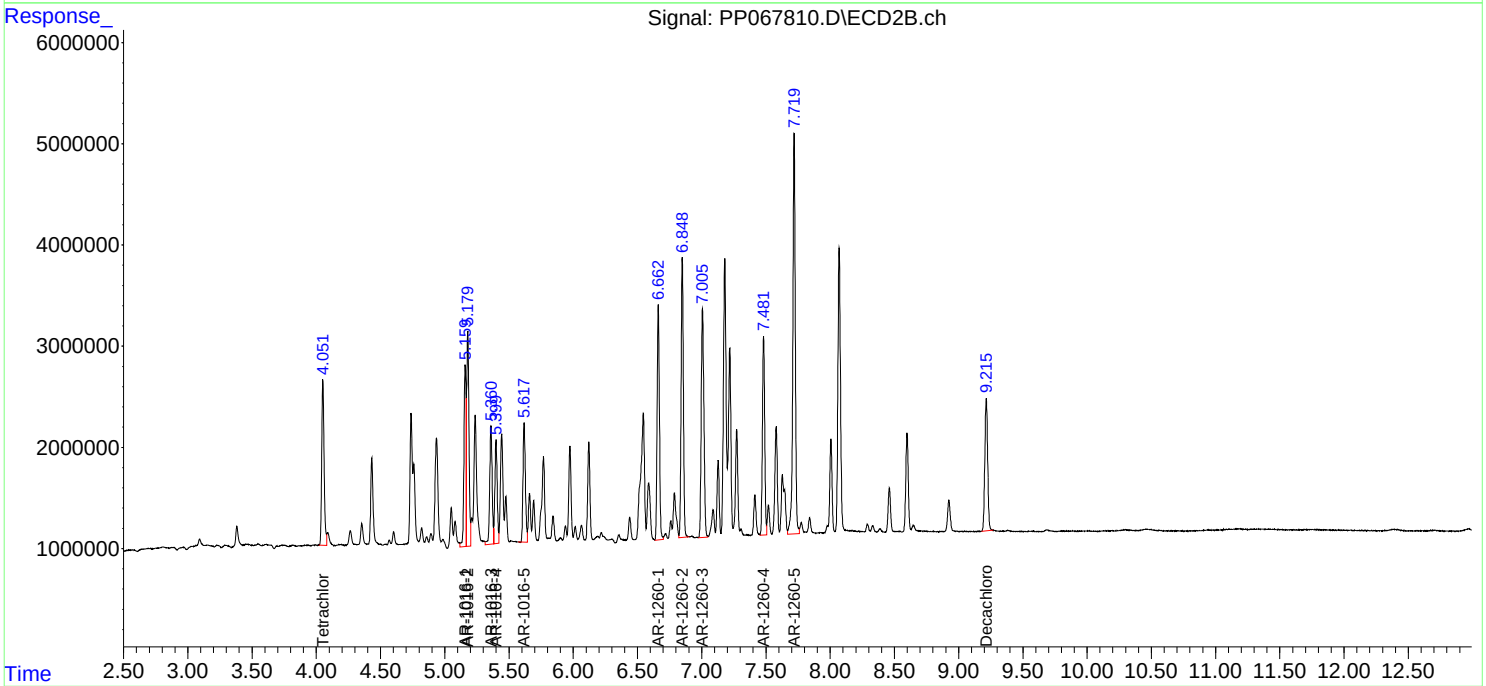
Instrument :
ECD_P
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 02:01:43 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\PP101424\
Data File : PP067811.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 21:10
Operator : YP\AJ
Sample : P4397-02MSD
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 02:02:21 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...	4.754	4.052	21980269	20925386	23.746	20.710
2)	SA Decachlor...	10.668	9.216	22378953	20811782	19.438	18.558
	Target Compounds						
3)	L1 AR-1016-1	5.918	5.160	19266009	19467692	582.641m	556.422
4)	L1 AR-1016-2	5.940	5.180	26673365	26543274	546.912m	551.050
5)	L1 AR-1016-3	6.004	5.360	17607042	15029292	558.742m	557.932
6)	L1 AR-1016-4	6.102	5.400	14399421	12906616	559.339m	535.875
7)	L1 AR-1016-5	6.396	5.619	15323375	15159930	566.130m	498.520
31)	L7 AR-1260-1	7.520	6.663	28676419	28696006	530.812	503.775
32)	L7 AR-1260-2	7.774	6.849	32203334	34058663	508.976	510.591
33)	L7 AR-1260-3	8.135	7.007	22417205	32631073	432.357	512.253
34)	L7 AR-1260-4	8.372	7.482	27523533	24237920	457.244	438.356
35)	L7 AR-1260-5	8.709	7.719	48903833	54279895	454.024	443.831

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

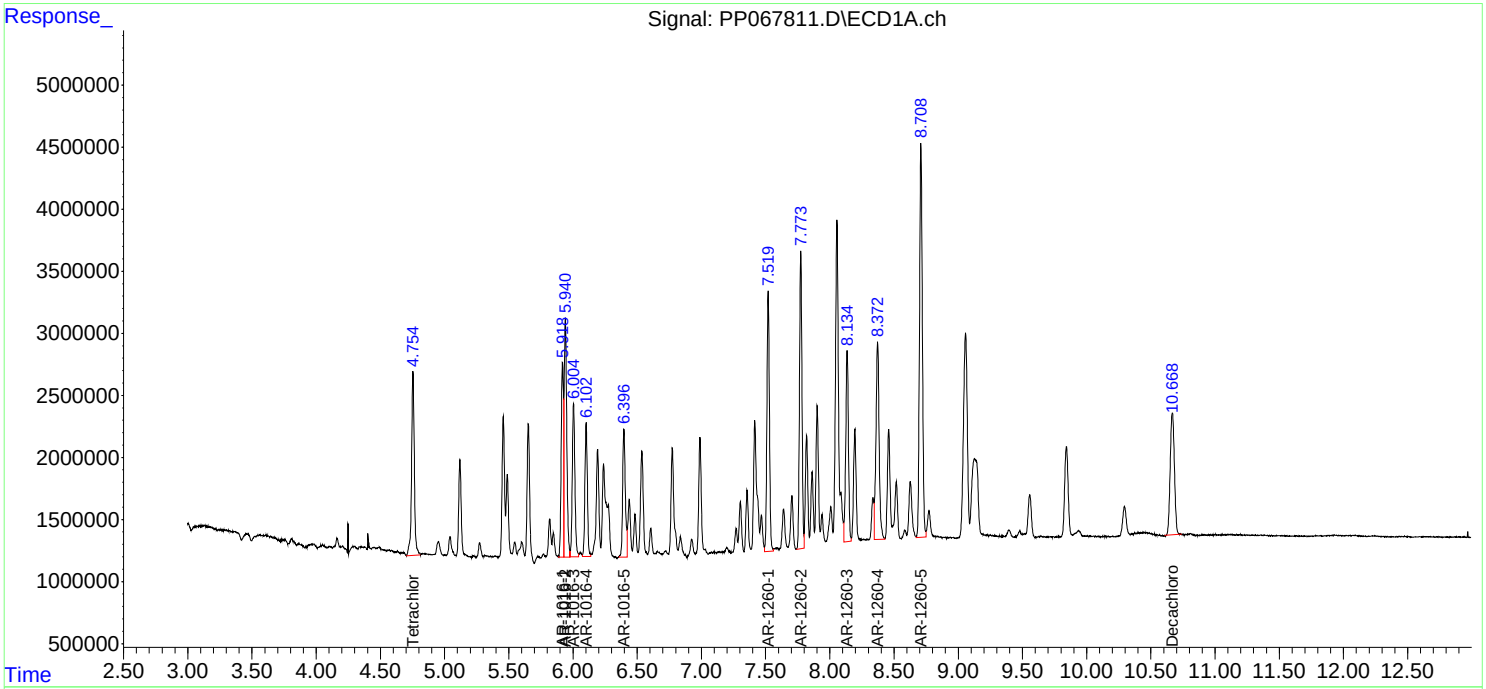
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP101424\
Data File : PP067811.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Oct 2024 21:10
Operator : YP\AJ
Sample : P4397-02MSD
Misc :
ALS Vial : 37 Sample Multiplier: 1

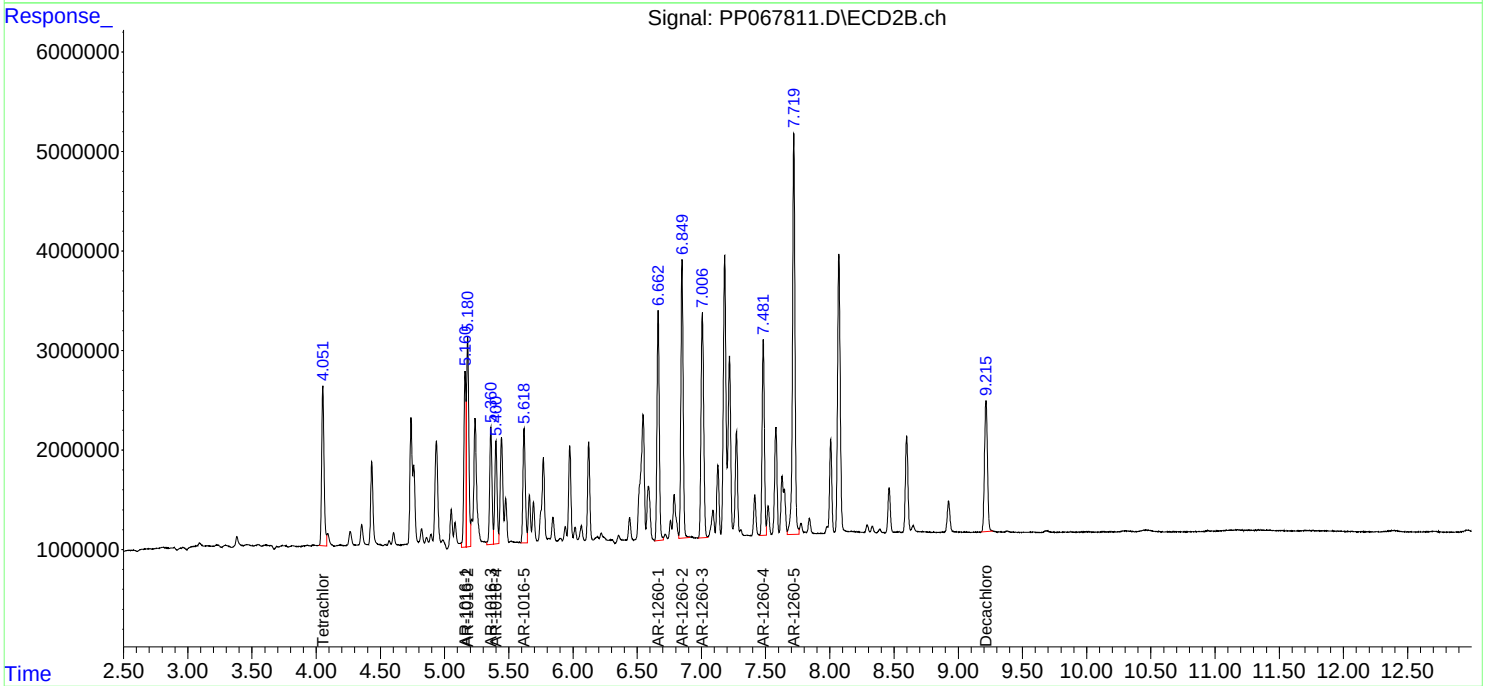
Instrument :
ECD_P
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 15 02:02:21 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





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

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:	PP101424	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4397-01	PP067808.D	Tetrachloro-m-xylene #2	yogesh	10/15/2024 8:35:10 AM	Ankita	10/15/2024 4:23:46	Peak Integrated by Software
P4397-02MS	PP067810.D	AR-1016-1	yogesh	10/15/2024 8:35:12 AM	Ankita	10/15/2024 4:23:48	Peak Integrated by Software
P4397-02MS	PP067810.D	AR-1016-2	yogesh	10/15/2024 8:35:12 AM	Ankita	10/15/2024 4:23:48	Peak Integrated by Software
P4397-02MS	PP067810.D	AR-1016-3	yogesh	10/15/2024 8:35:12 AM	Ankita	10/15/2024 4:23:48	Peak Integrated by Software
P4397-02MS	PP067810.D	AR-1016-4	yogesh	10/15/2024 8:35:12 AM	Ankita	10/15/2024 4:23:48	Peak Integrated by Software
P4397-02MS	PP067810.D	AR-1016-5	yogesh	10/15/2024 8:35:12 AM	Ankita	10/15/2024 4:23:48	Peak Integrated by Software
P4397-02MSD	PP067811.D	AR-1016-1	yogesh	10/15/2024 8:35:14 AM	Ankita	10/15/2024 4:23:49	Peak Integrated by Software
P4397-02MSD	PP067811.D	AR-1016-2	yogesh	10/15/2024 8:35:14 AM	Ankita	10/15/2024 4:23:49	Peak Integrated by Software
P4397-02MSD	PP067811.D	AR-1016-3	yogesh	10/15/2024 8:35:14 AM	Ankita	10/15/2024 4:23:49	Peak Integrated by Software
P4397-02MSD	PP067811.D	AR-1016-4	yogesh	10/15/2024 8:35:14 AM	Ankita	10/15/2024 4:23:49	Peak Integrated by Software
P4397-02MSD	PP067811.D	AR-1016-5	yogesh	10/15/2024 8:35:14 AM	Ankita	10/15/2024 4:23:49	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP101524	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC50 0	PP067840.D	AR-1016-5 #2	yogesh	10/16/2024 8:49:54 AM	Ankita	10/16/2024 9:38:06	Peak Integrated by Software
AR1242CCC50 0	PP067841.D	AR-1242-5	yogesh	10/16/2024 8:49:55 AM	Ankita	10/16/2024 9:38:07	Peak Integrated by Software
AR1248CCC50 0	PP067842.D	AR-1248-4 #2	yogesh	10/16/2024 8:49:58 AM	Ankita	10/16/2024 9:38:09	Peak Integrated by Software
AR1248CCC50 0	PP067842.D	AR-1248-5 #2	yogesh	10/16/2024 8:49:58 AM	Ankita	10/16/2024 9:38:09	Peak Integrated by Software
AR1254CCC50 0	PP067843.D	AR-1254-1	yogesh	10/16/2024 8:50:00 AM	Ankita	10/16/2024 9:38:10	Peak Integrated by Software
AR1254CCC50 0	PP067843.D	AR-1254-1 #2	yogesh	10/16/2024 8:50:00 AM	Ankita	10/16/2024 9:38:10	Peak Integrated by Software
AR1254CCC50 0	PP067843.D	AR-1254-2	yogesh	10/16/2024 8:50:00 AM	Ankita	10/16/2024 9:38:10	Peak Integrated by Software
AR1254CCC50 0	PP067843.D	AR-1254-2 #2	yogesh	10/16/2024 8:50:00 AM	Ankita	10/16/2024 9:38:10	Peak Integrated by Software
AR1242CCC50 0	PP067875.D	AR-1242-5	yogesh	10/16/2024 8:50:16 AM	Ankita	10/16/2024 9:38:46	Peak Integrated by Software
AR1242CCC50 0	PP067875.D	AR-1242-5 #2	yogesh	10/16/2024 8:50:16 AM	Ankita	10/16/2024 9:38:46	Peak Integrated by Software
AR1248CCC50 0	PP067876.D	AR-1248-4 #2	yogesh	10/16/2024 8:50:18 AM	Ankita	10/16/2024 9:38:47	Peak Integrated by Software
AR1248CCC50 0	PP067876.D	AR-1248-5 #2	yogesh	10/16/2024 8:50:18 AM	Ankita	10/16/2024 9:38:47	Peak Integrated by Software
AR1254CCC50 0	PP067877.D	AR-1254-1	yogesh	10/16/2024 8:50:20 AM	Ankita	10/16/2024 9:38:49	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PP101524	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254CCC50 0	PP067877.D	AR-1254-1 #2	yogesh	10/16/2024 8:50:20 AM	Ankita	10/16/2024 9:38:49	Peak Integrated by Software
AR1254CCC50 0	PP067877.D	AR-1254-2	yogesh	10/16/2024 8:50:20 AM	Ankita	10/16/2024 9:38:49	Peak Integrated by Software
AR1254CCC50 0	PP067877.D	AR-1254-2 #2	yogesh	10/16/2024 8:50:20 AM	Ankita	10/16/2024 9:38:49	Peak Integrated by Software
AR1254CCC50 0	PP067877.D	AR-1254-3	yogesh	10/16/2024 8:50:20 AM	Ankita	10/16/2024 9:38:49	Peak Integrated by Software
AR1254CCC50 0	PP067877.D	AR-1254-4	yogesh	10/16/2024 8:50:20 AM	Ankita	10/16/2024 9:38:49	Peak Integrated by Software
AR1242CCC50 0	PP067884.D	AR-1242-5	yogesh	10/16/2024 8:50:26 AM	Ankita	10/16/2024 9:38:54	Peak Integrated by Software
AR1242CCC50 0	PP067884.D	AR-1242-5 #2	yogesh	10/16/2024 8:50:26 AM	Ankita	10/16/2024 9:38:54	Peak Integrated by Software
AR1248CCC50 0	PP067885.D	AR-1248-4	yogesh	10/16/2024 8:50:28 AM	Ankita	10/16/2024 9:38:55	Peak Integrated by Software
AR1248CCC50 0	PP067885.D	AR-1248-4 #2	yogesh	10/16/2024 8:50:28 AM	Ankita	10/16/2024 9:38:55	Peak Integrated by Software
AR1248CCC50 0	PP067885.D	AR-1248-5	yogesh	10/16/2024 8:50:28 AM	Ankita	10/16/2024 9:38:55	Peak Integrated by Software
AR1254CCC50 0	PP067886.D	AR-1254-1	yogesh	10/16/2024 8:50:32 AM	Ankita	10/16/2024 9:38:57	Peak Integrated by Software
AR1254CCC50 0	PP067886.D	AR-1254-2	yogesh	10/16/2024 8:50:32 AM	Ankita	10/16/2024 9:38:57	Peak Integrated by Software
AR1254CCC50 0	PP067886.D	AR-1254-3	yogesh	10/16/2024 8:50:32 AM	Ankita	10/16/2024 9:38:57	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP101524	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

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 # PP101424

Review By	yogesh	Review On	10/15/2024 8:39:29 AM		
Supervise By	Ankita	Supervise On	10/15/2024 4:24:07 PM		
SubDirectory	PP101424	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	PP067773.D	14 Oct 2024 08:55	YP\AJ	Ok
2	AR1660CCC500	PP067774.D	14 Oct 2024 09:11 am	YP\AJ	Ok
3	AR1242CCC500	PP067775.D	14 Oct 2024 10:32	YP\AJ	Ok
4	AR1248CCC500	PP067776.D	14 Oct 2024 10:48	YP\AJ	Ok
5	AR1254CCC500	PP067777.D	14 Oct 2024 11:05	YP\AJ	Ok
6	I.BLK	PP067778.D	14 Oct 2024 11:21	YP\AJ	Ok
7	PB164113BL	PP067779.D	14 Oct 2024 12:22	YP\AJ	Ok
8	PB164113BS	PP067780.D	14 Oct 2024 12:38	YP\AJ	Ok
9	P4390-01	PP067781.D	14 Oct 2024 12:54	YP\AJ	Ok,M
10	P4390-02	PP067782.D	14 Oct 2024 13:11	YP\AJ	Ok,M
11	P4390-03	PP067783.D	14 Oct 2024 13:27	YP\AJ	Ok,M
12	P4390-04	PP067784.D	14 Oct 2024 13:43	YP\AJ	Ok,M
13	P4390-05	PP067785.D	14 Oct 2024 13:59	YP\AJ	Ok,M
14	P4390-06	PP067786.D	14 Oct 2024 14:15	YP\AJ	Ok,M
15	PB164124BL	PP067787.D	14 Oct 2024 14:31	YP\AJ	Ok
16	PB164124BS	PP067788.D	14 Oct 2024 14:48	YP\AJ	Ok
17	P4391-01	PP067789.D	14 Oct 2024 15:04	YP\AJ	Ok
18	P4391-04	PP067790.D	14 Oct 2024 15:20	YP\AJ	Ok
19	AR1660CCC500	PP067791.D	14 Oct 2024 03:36 pm	YP\AJ	Ok
20	I.BLK	PP067792.D	14 Oct 2024 15:52	YP\AJ	Ok
21	P4391-07	PP067793.D	14 Oct 2024 04:19 pm	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101424

Review By	yogesh	Review On	10/15/2024 8:39:29 AM		
Supervise By	Ankita	Supervise On	10/15/2024 4:24:07 PM		
SubDirectory	PP101424	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	

22	P4391-10	PP067794.D	14 Oct 2024 16:36	YP\AJ	Ok
23	P4391-13	PP067795.D	14 Oct 2024 16:52	YP\AJ	Ok,M
24	P4391-16	PP067796.D	14 Oct 2024 17:08	YP\AJ	Ok
25	P4391-17	PP067797.D	14 Oct 2024 17:24	YP\AJ	Ok
26	P4391-19	PP067798.D	14 Oct 2024 17:40	YP\AJ	Ok
27	P4391-21	PP067799.D	14 Oct 2024 17:56	YP\AJ	Ok
28	P4391-23	PP067800.D	14 Oct 2024 18:12	YP\AJ	Ok
29	P4391-24	PP067801.D	14 Oct 2024 18:29	YP\AJ	Ok
30	P4391-26	PP067802.D	14 Oct 2024 18:45	YP\AJ	Ok,M
31	P4391-27	PP067803.D	14 Oct 2024 19:01	YP\AJ	Ok,M
32	P4391-29	PP067804.D	14 Oct 2024 19:17	YP\AJ	Ok
33	P4391-30	PP067805.D	14 Oct 2024 19:33	YP\AJ	Ok
34	P4391-32	PP067806.D	14 Oct 2024 19:50	YP\AJ	Ok
35	P4391-33	PP067807.D	14 Oct 2024 20:06	YP\AJ	Ok
36	P4397-01	PP067808.D	14 Oct 2024 20:22	YP\AJ	Ok,M
37	P4397-02	PP067809.D	14 Oct 2024 20:38	YP\AJ	Ok
38	P4397-02MS	PP067810.D	14 Oct 2024 20:54	YP\AJ	Ok,M
39	P4397-02MSD	PP067811.D	14 Oct 2024 21:10	YP\AJ	Ok,M
40	P4397-04	PP067812.D	14 Oct 2024 21:26	YP\AJ	Ok
41	AR1660CCC500	PP067813.D	14 Oct 2024 22:04	YP\AJ	Ok
42	AR1242CCC500	PP067814.D	14 Oct 2024 22:20	YP\AJ	Ok
43	AR1248CCC500	PP067815.D	14 Oct 2024 22:36	YP\AJ	Ok
44	AR1254CCC500	PP067816.D	14 Oct 2024 22:53	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101424

Review By	yogesh	Review On	10/15/2024 8:39:29 AM		
Supervise By	Ankita	Supervise On	10/15/2024 4:24:07 PM		
SubDirectory	PP101424	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	

45	I.BLK	PP067817.D	14 Oct 2024 23:09	YP\AJ	Ok
46	PB164116BL	PP067818.D	14 Oct 2024 23:25	YP\AJ	Ok
47	PB164116BS	PP067819.D	14 Oct 2024 23:41	YP\AJ	Ok
48	P4393-01	PP067820.D	14 Oct 2024 23:57	YP\AJ	Ok
49	P4393-02	PP067821.D	15 Oct 2024 00:13	YP\AJ	Ok
50	P4393-03	PP067822.D	15 Oct 2024 00:29	YP\AJ	Ok,M
51	AR1660CCC500	PP067823.D	15 Oct 2024 09:11	YP\AJ	Ok
52	I.BLK	PP067824.D	15 Oct 2024 09:27	YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101524

Review By	yogesh	Review On	10/16/2024 8:50:59 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:39:13 AM		
SubDirectory	PP101524	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	AR1660CCC500	PP067825.D	15 Oct 2024 09:43 am	YP\AJ	Ok
2	AR1242CCC500	PP067826.D	15 Oct 2024 09:59	YP\AJ	Ok
3	AR1248CCC500	PP067827.D	15 Oct 2024 10:15	YP\AJ	Ok
4	AR1254CCC500	PP067828.D	15 Oct 2024 10:31	YP\AJ	Ok
5	I.BLK	PP067829.D	15 Oct 2024 10:47	YP\AJ	Ok
6	P4382-01	PP067830.D	15 Oct 2024 11:04	YP\AJ	Ok
7	P4402-01	PP067831.D	15 Oct 2024 11:20	YP\AJ	ReRun
8	P4402-02	PP067832.D	15 Oct 2024 11:36	YP\AJ	ReRun
9	P4402-03	PP067833.D	15 Oct 2024 11:52	YP\AJ	Ok,M
10	P4402-04	PP067834.D	15 Oct 2024 12:08	YP\AJ	Ok
11	P4402-05	PP067835.D	15 Oct 2024 12:24	YP\AJ	Ok
12	P4396-01	PP067836.D	15 Oct 2024 12:40	YP\AJ	Ok
13	P4402-02RE	PP067837.D	15 Oct 2024 13:00	YP\AJ	Confirms
14	PB164139BL	PP067838.D	15 Oct 2024 13:16	YP\AJ	Ok
15	P4402-01	PP067839.D	15 Oct 2024 13:32	YP\AJ	Ok,M
16	AR1660CCC500	PP067840.D	15 Oct 2024 13:48	YP\AJ	Ok,M
17	AR1242CCC500	PP067841.D	15 Oct 2024 14:05	YP\AJ	Ok,M
18	AR1248CCC500	PP067842.D	15 Oct 2024 14:21	YP\AJ	Ok,M
19	AR1254CCC500	PP067843.D	15 Oct 2024 14:37	YP\AJ	Ok,M
20	I.BLK	PP067844.D	15 Oct 2024 14:53	YP\AJ	Ok
21	PB164139BS	PP067845.D	15 Oct 2024 15:09	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101524

Review By	yogesh	Review On	10/16/2024 8:50:59 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:39:13 AM		
SubDirectory	PP101524	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	PB164139BSD	PP067846.D	15 Oct 2024 15:25	YP\AJ	Ok
23	P4394-01	PP067847.D	15 Oct 2024 15:41	YP\AJ	Ok
24	P4394-02	PP067848.D	15 Oct 2024 15:57	YP\AJ	Ok
25	P4395-01	PP067849.D	15 Oct 2024 16:13	YP\AJ	Ok,M
26	P4395-01MS	PP067850.D	15 Oct 2024 16:30	YP\AJ	Ok,M
27	P4395-01MSD	PP067851.D	15 Oct 2024 16:46	YP\AJ	Ok,M
28	PB164150BL	PP067852.D	15 Oct 2024 17:02	YP\AJ	Ok
29	PB164150BS	PP067853.D	15 Oct 2024 17:18	YP\AJ	Ok
30	P4392-02	PP067854.D	15 Oct 2024 17:34	YP\AJ	Ok
31	P4392-04	PP067855.D	15 Oct 2024 17:50	YP\AJ	Ok
32	P4392-06	PP067856.D	15 Oct 2024 18:06	YP\AJ	Ok
33	P4392-06MS	PP067857.D	15 Oct 2024 18:22	YP\AJ	Ok,M
34	P4392-06MSD	PP067858.D	15 Oct 2024 18:39	YP\AJ	Ok,M
35	P4392-09	PP067859.D	15 Oct 2024 18:55	YP\AJ	Ok
36	P4392-12	PP067860.D	15 Oct 2024 19:11	YP\AJ	Ok,M
37	P4392-15	PP067861.D	15 Oct 2024 19:27	YP\AJ	Ok
38	P4392-18	PP067862.D	15 Oct 2024 19:43	YP\AJ	Ok
39	P4392-20	PP067863.D	15 Oct 2024 19:59	YP\AJ	Ok
40	P4392-22	PP067864.D	15 Oct 2024 20:15	YP\AJ	Ok
41	AR1660CCC500	PP067865.D	15 Oct 2024 20:42	YP\AJ	Ok
42	I.BLK	PP067866.D	15 Oct 2024 20:58	YP\AJ	Ok
43	P4392-24	PP067867.D	15 Oct 2024 21:14	YP\AJ	Ok
44	P4392-26	PP067868.D	15 Oct 2024 21:30	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101524

Review By	yogesh	Review On	10/16/2024 8:50:59 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:39:13 AM		
SubDirectory	PP101524	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	

45	P4392-28	PP067869.D	15 Oct 2024 21:46	YP\AJ	Ok
46	P4392-30	PP067870.D	15 Oct 2024 22:02	YP\AJ	Ok
47	P4392-31	PP067871.D	15 Oct 2024 22:18	YP\AJ	Ok
48	P4392-32	PP067872.D	15 Oct 2024 22:35	YP\AJ	Ok
49	P4392-33	PP067873.D	15 Oct 2024 22:51	YP\AJ	Ok
50	AR1660CCC500	PP067874.D	15 Oct 2024 23:18	YP\AJ	Ok
51	AR1242CCC500	PP067875.D	15 Oct 2024 23:34	YP\AJ	Ok,M
52	AR1248CCC500	PP067876.D	15 Oct 2024 23:50	YP\AJ	Ok,M
53	AR1254CCC500	PP067877.D	16 Oct 2024 00:06	YP\AJ	Ok,M
54	I.BLK	PP067878.D	16 Oct 2024 00:22	YP\AJ	Ok
55	P4399-01	PP067879.D	16 Oct 2024 00:38	YP\AJ	Ok,M
56	P4400-01	PP067880.D	16 Oct 2024 00:54	YP\AJ	Ok
57	P4401-01	PP067881.D	16 Oct 2024 01:10	YP\AJ	Ok
58	P4403-01	PP067882.D	16 Oct 2024 01:26	YP\AJ	Ok,M
59	AR1660CCC500	PP067883.D	16 Oct 2024 02:04	YP\AJ	Ok
60	AR1242CCC500	PP067884.D	16 Oct 2024 02:20	YP\AJ	Ok,M
61	AR1248CCC500	PP067885.D	16 Oct 2024 02:36	YP\AJ	Ok,M
62	AR1254CCC500	PP067886.D	16 Oct 2024 02:52	YP\AJ	Ok,M
63	I.BLK	PP067887.D	16 Oct 2024 03:09	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,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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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101424

Review By	yogesh	Review On	10/15/2024 8:39:29 AM		
Supervise By	Ankita	Supervise On	10/15/2024 4:24:07 PM		
SubDirectory	PP101424	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	PP067773.D	14 Oct 2024 08:55		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP067774.D	14 Oct 2024 09:11 am		YP\AJ	Ok
3	AR1242CCC500	AR1242CCC500	PP067775.D	14 Oct 2024 10:32		YP\AJ	Ok
4	AR1248CCC500	AR1248CCC500	PP067776.D	14 Oct 2024 10:48		YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP067777.D	14 Oct 2024 11:05		YP\AJ	Ok
6	I.BLK	I.BLK	PP067778.D	14 Oct 2024 11:21		YP\AJ	Ok
7	PB164113BL	PB164113BL	PP067779.D	14 Oct 2024 12:22		YP\AJ	Ok
8	PB164113BS	PB164113BS	PP067780.D	14 Oct 2024 12:38		YP\AJ	Ok
9	P4390-01	1	PP067781.D	14 Oct 2024 12:54	TCMX high 1st col	YP\AJ	Ok,M
10	P4390-02	2	PP067782.D	14 Oct 2024 13:11		YP\AJ	Ok,M
11	P4390-03	3	PP067783.D	14 Oct 2024 13:27		YP\AJ	Ok,M
12	P4390-04	4	PP067784.D	14 Oct 2024 13:43		YP\AJ	Ok,M
13	P4390-05	5	PP067785.D	14 Oct 2024 13:59	TCMX high 1st col	YP\AJ	Ok,M
14	P4390-06	6	PP067786.D	14 Oct 2024 14:15		YP\AJ	Ok,M
15	PB164124BL	PB164124BL	PP067787.D	14 Oct 2024 14:31		YP\AJ	Ok
16	PB164124BS	PB164124BS	PP067788.D	14 Oct 2024 14:48		YP\AJ	Ok
17	P4391-01	Q119-1A	PP067789.D	14 Oct 2024 15:04		YP\AJ	Ok
18	P4391-04	Q119-2A	PP067790.D	14 Oct 2024 15:20		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101424

Review By	yogesh	Review On	10/15/2024 8:39:29 AM		
Supervise By	Ankita	Supervise On	10/15/2024 4:24:07 PM		
SubDirectory	PP101424	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	AR1660CCC500	AR1660CCC500	PP067791.D	14 Oct 2024 03:36 pm		YP\AJ	Ok
20	I.BLK	I.BLK	PP067792.D	14 Oct 2024 15:52		YP\AJ	Ok
21	P4391-07	Q119-3A	PP067793.D	14 Oct 2024 04:19 pm		YP\AJ	Ok,M
22	P4391-10	Q119-4A	PP067794.D	14 Oct 2024 16:36		YP\AJ	Ok
23	P4391-13	Q119-5A	PP067795.D	14 Oct 2024 16:52		YP\AJ	Ok,M
24	P4391-16	Q119-6A	PP067796.D	14 Oct 2024 17:08		YP\AJ	Ok
25	P4391-17	Q119-6B	PP067797.D	14 Oct 2024 17:24		YP\AJ	Ok
26	P4391-19	Q119-7B	PP067798.D	14 Oct 2024 17:40		YP\AJ	Ok
27	P4391-21	Q119-8B	PP067799.D	14 Oct 2024 17:56		YP\AJ	Ok
28	P4391-23	Q119-9A	PP067800.D	14 Oct 2024 18:12		YP\AJ	Ok
29	P4391-24	Q119-9B	PP067801.D	14 Oct 2024 18:29		YP\AJ	Ok
30	P4391-26	Q119-10A	PP067802.D	14 Oct 2024 18:45		YP\AJ	Ok,M
31	P4391-27	Q119-10B	PP067803.D	14 Oct 2024 19:01		YP\AJ	Ok,M
32	P4391-29	Q119-11A	PP067804.D	14 Oct 2024 19:17		YP\AJ	Ok
33	P4391-30	Q119-11B	PP067805.D	14 Oct 2024 19:33		YP\AJ	Ok
34	P4391-32	Q119-12A	PP067806.D	14 Oct 2024 19:50		YP\AJ	Ok
35	P4391-33	Q119-12B	PP067807.D	14 Oct 2024 20:06		YP\AJ	Ok
36	P4397-01	WB-301-TOP	PP067808.D	14 Oct 2024 20:22		YP\AJ	Ok,M
37	P4397-02	WB-301-BOT	PP067809.D	14 Oct 2024 20:38		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101424

Review By	yogesh	Review On	10/15/2024 8:39:29 AM		
Supervise By	Ankita	Supervise On	10/15/2024 4:24:07 PM		
SubDirectory	PP101424	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	

38	P4397-02MS	WB-301-BOTMS	PP067810.D	14 Oct 2024 20:54		YP\AJ	Ok,M
39	P4397-02MSD	WB-301-BOTMSD	PP067811.D	14 Oct 2024 21:10		YP\AJ	Ok,M
40	P4397-04	WB-301-SW	PP067812.D	14 Oct 2024 21:26		YP\AJ	Ok
41	AR1660CCC500	AR1660CCC500	PP067813.D	14 Oct 2024 22:04		YP\AJ	Ok
42	AR1242CCC500	AR1242CCC500	PP067814.D	14 Oct 2024 22:20		YP\AJ	Ok
43	AR1248CCC500	AR1248CCC500	PP067815.D	14 Oct 2024 22:36		YP\AJ	Ok
44	AR1254CCC500	AR1254CCC500	PP067816.D	14 Oct 2024 22:53		YP\AJ	Ok
45	I.BLK	I.BLK	PP067817.D	14 Oct 2024 23:09		YP\AJ	Ok
46	PB164116BL	PB164116BL	PP067818.D	14 Oct 2024 23:25		YP\AJ	Ok
47	PB164116BS	PB164116BS	PP067819.D	14 Oct 2024 23:41		YP\AJ	Ok
48	P4393-01	BUST-DEBRIS	PP067820.D	14 Oct 2024 23:57		YP\AJ	Ok
49	P4393-02	BUST-OIL	PP067821.D	15 Oct 2024 00:13		YP\AJ	Ok
50	P4393-03	BUST-TOTE-OIL	PP067822.D	15 Oct 2024 00:29		YP\AJ	Ok,M
51	AR1660CCC500	AR1660CCC500	PP067823.D	15 Oct 2024 09:11		YP\AJ	Ok
52	I.BLK	I.BLK	PP067824.D	15 Oct 2024 09:27		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101524

Review By	yogesh	Review On	10/16/2024 8:50:59 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:39:13 AM		
SubDirectory	PP101524	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	AR1660CCC500	AR1660CCC500	PP067825.D	15 Oct 2024 09:43 am		YP\AJ	Ok
2	AR1242CCC500	AR1242CCC500	PP067826.D	15 Oct 2024 09:59		YP\AJ	Ok
3	AR1248CCC500	AR1248CCC500	PP067827.D	15 Oct 2024 10:15		YP\AJ	Ok
4	AR1254CCC500	AR1254CCC500	PP067828.D	15 Oct 2024 10:31		YP\AJ	Ok
5	I.BLK	I.BLK	PP067829.D	15 Oct 2024 10:47		YP\AJ	Ok
6	P4382-01	DECON-DRUM	PP067830.D	15 Oct 2024 11:04		YP\AJ	Ok
7	P4402-01	1 - Drum	PP067831.D	15 Oct 2024 11:20	DCB low both col	YP\AJ	ReRun
8	P4402-02	2 - Drum	PP067832.D	15 Oct 2024 11:36	DCB low both col	YP\AJ	ReRun
9	P4402-03	3 - Tote	PP067833.D	15 Oct 2024 11:52		YP\AJ	Ok,M
10	P4402-04	4 - Tote	PP067834.D	15 Oct 2024 12:08		YP\AJ	Ok
11	P4402-05	5 - Tote	PP067835.D	15 Oct 2024 12:24	DCB low 2nd col	YP\AJ	Ok
12	P4396-01	WASTE-WATER-FRAC	PP067836.D	15 Oct 2024 12:40	AR1254 Hit	YP\AJ	Ok
13	P4402-02RE	2 - DrumRE	PP067837.D	15 Oct 2024 13:00	DCB low both col	YP\AJ	Confirms
14	PB164139BL	PB164139BL	PP067838.D	15 Oct 2024 13:16		YP\AJ	Ok
15	P4402-01	1 - Drum	PP067839.D	15 Oct 2024 13:32	DCB low 2nd col	YP\AJ	Ok,M
16	AR1660CCC500	AR1660CCC500	PP067840.D	15 Oct 2024 13:48		YP\AJ	Ok,M
17	AR1242CCC500	AR1242CCC500	PP067841.D	15 Oct 2024 14:05		YP\AJ	Ok,M
18	AR1248CCC500	AR1248CCC500	PP067842.D	15 Oct 2024 14:21		YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101524

Review By	yogesh	Review On	10/16/2024 8:50:59 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:39:13 AM		
SubDirectory	PP101524	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	AR1254CCC500	AR1254CCC500	PP067843.D	15 Oct 2024 14:37		YP\AJ	Ok,M
20	I.BLK	I.BLK	PP067844.D	15 Oct 2024 14:53		YP\AJ	Ok
21	PB164139BS	PB164139BS	PP067845.D	15 Oct 2024 15:09		YP\AJ	Ok
22	PB164139BSD	PB164139BSD	PP067846.D	15 Oct 2024 15:25		YP\AJ	Ok
23	P4394-01	WASH-DEBRIS	PP067847.D	15 Oct 2024 15:41		YP\AJ	Ok
24	P4394-02	WASH-OIL	PP067848.D	15 Oct 2024 15:57		YP\AJ	Ok
25	P4395-01	F05308-SOLID	PP067849.D	15 Oct 2024 16:13	AR1260 Hit	YP\AJ	Ok,M
26	P4395-01MS	F05308-SOLIDMS	PP067850.D	15 Oct 2024 16:30		YP\AJ	Ok,M
27	P4395-01MSD	F05308-SOLIDMSD	PP067851.D	15 Oct 2024 16:46		YP\AJ	Ok,M
28	PB164150BL	PB164150BL	PP067852.D	15 Oct 2024 17:02		YP\AJ	Ok
29	PB164150BS	PB164150BS	PP067853.D	15 Oct 2024 17:18		YP\AJ	Ok
30	P4392-02	Q119-13B	PP067854.D	15 Oct 2024 17:34		YP\AJ	Ok
31	P4392-04	Q119-14B	PP067855.D	15 Oct 2024 17:50		YP\AJ	Ok
32	P4392-06	Q119-15A	PP067856.D	15 Oct 2024 18:06		YP\AJ	Ok
33	P4392-06MS	Q119-15AMS	PP067857.D	15 Oct 2024 18:22		YP\AJ	Ok,M
34	P4392-06MSD	Q119-15AMSD	PP067858.D	15 Oct 2024 18:39		YP\AJ	Ok,M
35	P4392-09	Q119-16A	PP067859.D	15 Oct 2024 18:55		YP\AJ	Ok
36	P4392-12	Q119-17A	PP067860.D	15 Oct 2024 19:11	AR1254 Hit	YP\AJ	Ok,M
37	P4392-15	Q119-18A	PP067861.D	15 Oct 2024 19:27		YP\AJ	Ok

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

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101524

Review By	yogesh	Review On	10/16/2024 8:50:59 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:39:13 AM		
SubDirectory	PP101524	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	

38	P4392-18	Q119-19A	PP067862.D	15 Oct 2024 19:43		YP\AJ	Ok
39	P4392-20	Q119-20A	PP067863.D	15 Oct 2024 19:59		YP\AJ	Ok
40	P4392-22	Q119-21A	PP067864.D	15 Oct 2024 20:15		YP\AJ	Ok
41	AR1660CCC500	AR1660CCC500	PP067865.D	15 Oct 2024 20:42		YP\AJ	Ok
42	I.BLK	I.BLK	PP067866.D	15 Oct 2024 20:58		YP\AJ	Ok
43	P4392-24	Q119-22A	PP067867.D	15 Oct 2024 21:14		YP\AJ	Ok
44	P4392-26	Q119-23A	PP067868.D	15 Oct 2024 21:30		YP\AJ	Ok,M
45	P4392-28	Q119-24A	PP067869.D	15 Oct 2024 21:46		YP\AJ	Ok
46	P4392-30	Q119-DUP1	PP067870.D	15 Oct 2024 22:02		YP\AJ	Ok
47	P4392-31	Q119-DUP2	PP067871.D	15 Oct 2024 22:18		YP\AJ	Ok
48	P4392-32	Q119-DUP3	PP067872.D	15 Oct 2024 22:35		YP\AJ	Ok
49	P4392-33	Q119-DUP4	PP067873.D	15 Oct 2024 22:51		YP\AJ	Ok
50	AR1660CCC500	AR1660CCC500	PP067874.D	15 Oct 2024 23:18		YP\AJ	Ok
51	AR1242CCC500	AR1242CCC500	PP067875.D	15 Oct 2024 23:34		YP\AJ	Ok,M
52	AR1248CCC500	AR1248CCC500	PP067876.D	15 Oct 2024 23:50		YP\AJ	Ok,M
53	AR1254CCC500	AR1254CCC500	PP067877.D	16 Oct 2024 00:06		YP\AJ	Ok,M
54	I.BLK	I.BLK	PP067878.D	16 Oct 2024 00:22		YP\AJ	Ok
55	P4399-01	1009-A	PP067879.D	16 Oct 2024 00:38	TCMX High in 1st column	YP\AJ	Ok,M
56	P4400-01	NB-08-101424	PP067880.D	16 Oct 2024 00:54		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP101524

Review By	yogesh	Review On	10/16/2024 8:50:59 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:39:13 AM		
SubDirectory	PP101524	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	

57	P4401-01	SU-03-101424	PP067881.D	16 Oct 2024 01:10		YP\AJ	Ok
58	P4403-01	Hawthorne TP Soil	PP067882.D	16 Oct 2024 01:26		YP\AJ	Ok,M
59	AR1660CCC500	AR1660CCC500	PP067883.D	16 Oct 2024 02:04		YP\AJ	Ok
60	AR1242CCC500	AR1242CCC500	PP067884.D	16 Oct 2024 02:20		YP\AJ	Ok,M
61	AR1248CCC500	AR1248CCC500	PP067885.D	16 Oct 2024 02:36		YP\AJ	Ok,M
62	AR1254CCC500	AR1254CCC500	PP067886.D	16 Oct 2024 02:52		YP\AJ	Ok,M
63	I.BLK	I.BLK	PP067887.D	16 Oct 2024 03:09		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164124

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	10/14/2024
Matrix :	Solid			**Extraction Start Time :**	10:05
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	10/14/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:10
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	PP23641
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	EP2546
Sand	N/A	E2865
Hexane	N/A	E3816
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

Extraction Conformance/Non-Conformance Comments:

40 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
10/14/24	RJ (Ext-Lab)	AJ / TEST PCA Lab
13:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164124

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 10/14/2024

Sample ID	Client Sample ID	Test	(g) mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164124BL	ABLK124	PCB Group1	30.01	N/A	ritesh	Evelyn	10			U1-1
PB164124BS	ALCS124	PCB Group1	30.03	N/A	ritesh	Evelyn	10			2
P4391-01	Q119-1A	PCB Group1	30.06	N/A	ritesh	Evelyn	10			3
P4391-04	Q119-2A	PCB Group1	30.03	N/A	ritesh	Evelyn	10			4
P4391-07	Q119-3A	PCB Group1	30.07	N/A	ritesh	Evelyn	10			5
P4391-10	Q119-4A	PCB Group1	30.04	N/A	ritesh	Evelyn	10			6
P4391-13	Q119-5A	PCB Group1	30.08	N/A	ritesh	Evelyn	10			U5-1
P4391-16	Q119-6A	PCB Group1	30.10	N/A	ritesh	Evelyn	10			2
P4391-17	Q119-6B	PCB Group1	30.04	N/A	ritesh	Evelyn	10			3
P4391-19	Q119-7B	PCB Group1	30.01	N/A	ritesh	Evelyn	10			4
P4391-21	Q119-8B	PCB Group1	30.06	N/A	ritesh	Evelyn	10			5
P4391-23	Q119-9A	PCB Group1	30.05	N/A	ritesh	Evelyn	10			6
P4391-24	Q119-9B	PCB Group1	30.03	N/A	ritesh	Evelyn	10			U6-1
P4391-26	Q119-10A	PCB Group1	30.08	N/A	ritesh	Evelyn	10			2
P4391-27	Q119-10B	PCB Group1	30.02	N/A	ritesh	Evelyn	10			3
P4391-29	Q119-11A	PCB Group1	30.05	N/A	ritesh	Evelyn	10			4
P4391-30	Q119-11B	PCB Group1	30.09	N/A	ritesh	Evelyn	10			5
P4391-32	Q119-12A	PCB Group1	30.07	N/A	ritesh	Evelyn	10			6
P4391-33	Q119-12B	PCB Group1	30.04	N/A	ritesh	Evelyn	10			U7-1
P4397-01	WB-301-TOP	PCB	30.05	N/A	ritesh	Evelyn	10	E		2
P4397-02	WB-301-BOT	PCB	30.09	N/A	ritesh	Evelyn	10	E		3
P4397-02MS	WB-301-BOTMS	PCB	30.04	N/A	ritesh	Evelyn	10	E		4
P4397-02MSD	WB-301-BOTMSD	PCB	30.06	N/A	ritesh	Evelyn	10	E		5

* **Extracts relinquished on the same date as received.**

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4391 **WorkList ID :** 184413 **Department :** Extraction **Date :** 10-14-2024 10:00:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4391-01	Q119-1A	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-04	Q119-2A	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-07	Q119-3A	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-10	Q119-4A	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-13	Q119-5A	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-16	Q119-6A	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-17	Q119-6B	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-19	Q119-7B	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-21	Q119-8B	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-23	Q119-9A	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-24	Q119-9B	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-26	Q119-10A	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-27	Q119-10B	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-29	Q119-11A	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-30	Q119-11B	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-32	Q119-12A	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4391-33	Q119-12B	Solid	PCB Group1	Cool 4 deg C	ATCE02	K31	10/10/2024	8082A
P4397-01	WB-301-TOP	Solid	PCB	Cool 4 deg C	PORT06	K32	10/10/2024	8082A
P4397-02	WB-301-BOT	Solid	PCB	Cool 4 deg C	PORT06	K32	10/10/2024	8082A

Date/Time 10/14/24 10:02
Raw Sample Received by: RT (Sor Lng)
Raw Sample Relinquished by: SM

Date/Time 10/16/24 10:35
Raw Sample Received by: SM
Raw Sample Relinquished by: RT (Sor Lng)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164139

SOP ID:	M3510C,3580A-Extraction PCB-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	10/14/2024
Matrix :	Water			**Extraction Start Time :**	13:15
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	10/14/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	18:10
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
Surrogate	1.0ML	200 PPB	PP23641
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	E3817
Baked Na2SO4	N/A	EP2546
Hexane	N/A	E3816
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

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

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
10/14/24 18:15	RP (Ext lab)	Y-P-Pest/PCB.
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164139

Analytical Method: M3510C,3580A-Extraction PCB-14

Concentration Date: 10/14/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164139BL	ABLK139	PCB	1000	6	RUPESH	rajesh	10			SEP-01
PB164139BS	ALCS139	PCB	1000	6	RUPESH	rajesh	10			2
PB164139BSD	ALCSD139	PCB	1000	6	RUPESH	rajesh	10			3
P4382-01	DECON-DRUM	PCB	1000	6	RUPESH	rajesh	10	B		4
P4396-01	WASTE-WATER-FRAC-TANK	PCB	980	6	RUPESH	rajesh	10	K		5
P4397-04	WB-301-SW	PCB	960	6	RUPESH	rajesh	10	G		6
P4402-01	1 - DRUM	PCB	1000	6	RUPESH	rajesh	10	E		7
P4402-02	2 - DRUM	PCB	990	6	RUPESH	rajesh	10	E		8
P4402-03	3 - TOTE	PCB	980	6	RUPESH	rajesh	10	E		9
P4402-04	4 - TOTE	PCB	990	6	RUPESH	rajesh	10	E		10
P4402-05	5 - TOTE	PCB	1000	6	RUPESH	rajesh	10	E		11

10/14/24

* **Extracts relinquished on the same date as received.**

P4397 (13 of 13)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4402 **WorkList ID :** 184427 **Department :** Extraction **Date :** 10-14-2024 13:13:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4382-01	DECON-DRUM	Water	PCB	Cool 4 deg C	PSEG03	K23	10/10/2024	8082A
P4396-01	WASTE-WATER-FRAC-TANK	Water	PCB	Cool 4 deg C	PSEG03	K32	10/11/2024	8082A
P4397-04	WB-301-SW	Water	PCB	Cool 4 deg C	PORT06	K32	10/10/2024	8082A
P4402-01	1 - Drum	Water	PCB	Cool 4 deg C	PSEG03	K11	10/14/2024	8082A
P4402-02	2 - Drum	Water	PCB	Cool 4 deg C	PSEG03	K11	10/14/2024	8082A
P4402-03	3 - Tote	Water	PCB	Cool 4 deg C	PSEG03	K11	10/14/2024	8082A
P4402-04	4 - Tote	Water	PCB	Cool 4 deg C	PSEG03	K11	10/14/2024	8082A
P4402-05	5 - Tote	Water	PCB	Cool 4 deg C	PSEG03	K11	10/14/2024	8082A

828 of 1303

Date/Time 10/14/24 13:14
Raw Sample Received by: RS (Set Lab) SH
Raw Sample Relinquished by: SH

Date/Time 10/14/24 13:35
Raw Sample Received by: SH
Raw Sample Relinquished by: RS (Set Lab)

L K J I H G F E D C B A 10

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LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**SOIL**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/15/24	
P4397-02	**WB-301-BOT**	**SOIL**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/15/24	
P4397-04	**WB-301-SW**	**WATER**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	

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Hit Summary Sheet
SW-846

SDG No.: P4397 **Order ID:** P4397

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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-06	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
PS028041.D	1	10/24/24 11:28	10/24/24 18:45	PB164378

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	136	*	70 (39) - 130 (175)	27%	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:	10/24/24
Client Sample ID:	PB164261TB	SDG No.:	P4397
Lab Sample ID:	PB164261TB	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
PS028073.D	1	10/24/24 11:28	10/28/24 13:11	PB164378

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	349		70 (39) - 130 (175)	70%	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.: P4397

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-PS028007.D	PIBLK-PS028007.D	2,4-DCAA	1	500	489	98		70 (39)	130 (175)
		2,4-DCAA	2	500	461	92		70 (39)	130 (175)
I.BLK-PS028035.D	PIBLK-PS028035.D	2,4-DCAA	1	500	508	102		70 (39)	130 (175)
		2,4-DCAA	2	500	489	98		70 (39)	130 (175)
PB164378BL	PB164378BL	2,4-DCAA	1	500	510	102		70 (39)	130 (175)
		2,4-DCAA	2	500	516	103		70 (39)	130 (175)
PB164378BS	PB164378BS	2,4-DCAA	1	500	506	101		70 (39)	130 (175)
		2,4-DCAA	2	500	542	108		70 (39)	130 (175)
P4397-06	WB-301-BOT	2,4-DCAA	1	500	136	27	*	70 (39)	130 (175)
		2,4-DCAA	2	500	111	22	*	70 (39)	130 (175)
P4397-06MS	WB-301-BOTMS	2,4-DCAA	1	500	138	28	*	70 (39)	130 (175)
		2,4-DCAA	2	500	114	23	*	70 (39)	130 (175)
P4397-06MSD	WB-301-BOTMSD	2,4-DCAA	1	500	142	28	*	70 (39)	130 (175)
		2,4-DCAA	2	500	111	22	*	70 (39)	130 (175)
I.BLK-PS028046.D	PIBLK-PS028046.D	2,4-DCAA	1	500	506	101		70 (39)	130 (175)
		2,4-DCAA	2	500	479	96		70 (39)	130 (175)
I.BLK-PS028071.D	PIBLK-PS028071.D	2,4-DCAA	1	500	501	100		70 (39)	130 (175)
		2,4-DCAA	2	500	483	97		70 (39)	130 (175)
PB164261TB	PB164261TB	2,4-DCAA	1	500	349	70		70 (39)	130 (175)
		2,4-DCAA	2	500	285	57	*	70 (39)	130 (175)
I.BLK-PS028075.D	PIBLK-PS028075.D	2,4-DCAA	1	500	508	102		70 (39)	130 (175)
		2,4-DCAA	2	500	418	84		70 (39)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS028042.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-301-BOTMS**											
P4397-06MS	2,4-D	50	0	55.2	ug/L	110				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	106	ug/L	212	*			70 (62)	130 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS028043.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-301-BOTMSD**											
P4397-06MSD	2,4-D	50	0	56.6	ug/L	113		3		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	113	ug/L	226	*	6		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.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **Datafile :** PS028038.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164378BS	2,4-D	5	5.00	ug/L	100				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.40	ug/L	108				70 (78)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164378BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab Sample ID: PB164378BL Lab File ID: PS028037.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/24/2024

Date Analyzed (1): 10/24/2024 Date Analyzed (2): 10/24/2024

Time Analyzed (1): 17:09 Time Analyzed (2): 17:09

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
PB164378BS	PB164378BS	PS028038.D	10/24/2024	10/24/2024
WB-301-BOT	P4397-06	PS028041.D	10/24/2024	10/24/2024
WB-301-BOTMS	P4397-06MS	PS028042.D	10/24/2024	10/24/2024
WB-301-BOTMSD	P4397-06MSD	PS028043.D	10/24/2024	10/24/2024
PB164261TB	PB164261TB	PS028073.D	10/28/2024	10/28/2024

COMMENTS:

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164378BL	SDG No.:	P4397
Lab Sample ID:	PB164378BL	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
PS028037.D	1	10/24/24 11:28	10/24/24 17:09	PB164378

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	516		70 (39) - 130 (175)	103%	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:	10/23/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/23/24
Client Sample ID:	PIBLK-PS028007.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PS028007.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
PS028007.D	1		10/23/24	PS102324

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	489		70 (39) - 130 (175)	98%	SPK: 500

Comments:

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
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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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:	10/24/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	PIBLK-PS028035.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PS028035.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
PS028035.D	1		10/24/24	PS102424

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	508		70 (39) - 130 (175)	102%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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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:	10/24/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	PIBLK-PS028046.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PS028046.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
PS028046.D	1		10/24/24	PS102424

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:

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:	10/28/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/28/24
Client Sample ID:	PIBLK-PS028071.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PS028071.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
PS028071.D	1		10/28/24	PS102824

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	501		70 (39) - 130 (175)	100%	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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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-PS028075.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PS028075.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
PS028075.D	1		10/28/24	PS102824

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	508		70 (39) - 130 (175)	102%	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:	PB164378BS	SDG No.:	P4397
Lab Sample ID:	PB164378BS	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
PS028038.D	1	10/24/24 11:28	10/24/24 17:33	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.00		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.40		0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	542		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
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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-06MS	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
PS028042.D	1	10/24/24 11:28	10/24/24 19:09	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	55.2		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	106	P	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	138	*	70 (39) - 130 (175)	28%	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-06MSD	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
PS028043.D	1	10/24/24 11:28	10/24/24 19:32	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	56.6		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	113	P	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	142	*	70 (39) - 130 (175)	28%	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

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028008.D RT 500 = PS028009.D

RT 750 = PS028010.D RT 1000 = PS028011.D RT 1500 = PS028012.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)	9.03	9.03	9.03	9.03	9.03	9.03	8.93	9.13
2,4-D	8.18	8.18	8.18	8.18	8.18	8.18	8.08	8.28
2,4-DCAA	7.09	7.09	7.09	7.09	7.09	7.09	6.99	7.19

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028008.D RT 500 = PS028009.D

RT 750 = PS028010.D RT 1000 = PS028011.D RT 1500 = PS028012.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)	9.73	9.73	9.73	9.73	9.72	9.73	9.63	9.83
2,4-D	8.84	8.84	8.84	8.84	8.84	8.84	8.74	8.94
2,4-DCAA	7.61	7.62	7.61	7.62	7.61	7.61	7.51	7.71

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028008.D **CF 500 =** PS028009.D

CF 750 = PS028010.D **CF 1000 =** PS028011.D **CF 1500 =** PS028012.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	19584000000	16293000000	15358800000	15287500000	14230600000	16150800000	13
2,4-D	4140980000	3388880000	3183890000	3192570000	3036110000	3388490000	13
2,4-DCAA	3343560000	2711910000	2549070000	2475610000	2404680000	2696970000	14

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028008.D **CF 500 =** PS028009.D

CF 750 = PS028010.D **CF 1000 =** PS028011.D **CF 1500 =** PS028012.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	4575720000	4585960000	4376840000	4595510000	4689140000	4564630000	3
2,4-D	1125240000	990045000	959343000	966564000	944531000	997145000	7
2,4-DCAA	1149150000	929743000	912345000	889645000	862510000	948678000	12

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 11:25 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.18	8.18	8.08	8.28	0.00
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 11:25 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.84	8.84	8.74	8.94	0.00
2,4,5-TP(Silvex)	9.73	9.73	9.63	9.83	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028036.D **Time Analyzed:** 11:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.028	8.929	9.129	684.860	712.500	-3.9
2,4-D	8.176	8.077	8.277	665.580	705.000	-5.6
2,4-DCAA	7.091	6.991	7.191	709.960	750.000	-5.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028036.D **Time Analyzed:** 11:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.725	9.625	9.825	736.810	712.500	3.4
2,4-D	8.835	8.737	8.937	709.890	705.000	0.7
2,4-DCAA	7.613	7.514	7.714	733.180	750.000	-2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 21:08 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.18	8.18	8.08	8.28	0.00
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 21:08 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.83	8.84	8.74	8.94	0.01
2,4,5-TP(Silvex)	9.72	9.73	9.63	9.83	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028047.D **Time Analyzed:** 21:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.027	8.929	9.129	693.140	712.500	-2.7
2,4-D	8.176	8.077	8.277	681.790	705.000	-3.3
2,4-DCAA	7.090	6.991	7.191	722.190	750.000	-3.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028047.D **Time Analyzed:** 21:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.723	9.625	9.825	791.420	712.500	11.1
2,4-D	8.833	8.737	8.937	737.820	705.000	4.7
2,4-DCAA	7.612	7.514	7.714	784.260	750.000	4.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 10:32 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.17	8.18	8.08	8.28	0.01
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 10:32 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.83	8.84	8.74	8.94	0.01
2,4,5-TP(Silvex)	9.72	9.73	9.63	9.83	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028072.D **Time Analyzed:** 10:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.025	8.929	9.129	699.070	712.500	-1.9
2,4-D	8.173	8.077	8.277	675.860	705.000	-4.1
2,4-DCAA	7.088	6.991	7.191	727.270	750.000	-3.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028072.D **Time Analyzed:** 10:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.719	9.625	9.825	764.520	712.500	7.3
2,4-D	8.832	8.737	8.937	690.400	705.000	-2.1
2,4-DCAA	7.609	7.514	7.714	754.150	750.000	0.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 17:17 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.18	8.18	8.08	8.28	0.00
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 17:17 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.83	8.84	8.74	8.94	0.01
2,4,5-TP(Silvex)	9.72	9.73	9.63	9.83	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028076.D **Time Analyzed:** 17:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.029	8.929	9.129	715.650	712.500	0.4
2,4-D	8.176	8.077	8.277	699.590	705.000	-0.8
2,4-DCAA	7.090	6.991	7.191	733.900	750.000	-2.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028076.D **Time Analyzed:** 17:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.719	9.625	9.825	743.740	712.500	4.4
2,4-D	8.829	8.737	8.937	729.960	705.000	3.5
2,4-DCAA	7.606	7.514	7.714	729.190	750.000	-2.8

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/23/2024 10/23/2024

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	10/23/2024	11:04	PS028007.D	7.09	0.00
HSTDICC200	HSTDICC200	10/23/2024	11:28	PS028008.D	7.09	0.00
HSTDICC500	HSTDICC500	10/23/2024	11:52	PS028009.D	7.09	0.00
HSTDICC750	HSTDICC750	10/23/2024	12:16	PS028010.D	7.09	0.00
HSTDICC1000	HSTDICC1000	10/23/2024	12:40	PS028011.D	7.09	0.00
HSTDICC1500	HSTDICC1500	10/23/2024	13:04	PS028012.D	7.09	0.00
I.BLK	I.BLK	10/24/2024	11:01	PS028035.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	11:25	PS028036.D	7.09	0.00
PB164378BL	PB164378BL	10/24/2024	17:09	PS028037.D	7.09	0.00
PB164378BS	PB164378BS	10/24/2024	17:33	PS028038.D	7.09	0.00
WB-301-BOT	P4397-06	10/24/2024	18:45	PS028041.D	7.09	0.00
WB-301-BOTMS	P4397-06MS	10/24/2024	19:09	PS028042.D	7.09	0.00
WB-301-BOTMSD	P4397-06MSD	10/24/2024	19:32	PS028043.D	7.09	0.00
I.BLK	I.BLK	10/24/2024	20:44	PS028046.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	21:08	PS028047.D	7.09	0.00
I.BLK	I.BLK	10/28/2024	10:08	PS028071.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	10:32	PS028072.D	7.09	0.00
PB164261TB	PB164261TB	10/28/2024	13:11	PS028073.D	7.09	0.00
I.BLK	I.BLK	10/28/2024	13:59	PS028075.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	17:17	PS028076.D	7.09	0.00

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/23/2024 10/23/2024

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	10/23/2024	11:04	PS028007.D	7.62	0.00
HSTDICC200	HSTDICC200	10/23/2024	11:28	PS028008.D	7.61	0.00
HSTDICC500	HSTDICC500	10/23/2024	11:52	PS028009.D	7.62	0.00
HSTDICC750	HSTDICC750	10/23/2024	12:16	PS028010.D	7.61	0.00
HSTDICC1000	HSTDICC1000	10/23/2024	12:40	PS028011.D	7.62	0.00
HSTDICC1500	HSTDICC1500	10/23/2024	13:04	PS028012.D	7.61	0.00
I.BLK	I.BLK	10/24/2024	11:01	PS028035.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	11:25	PS028036.D	7.61	0.00
PB164378BL	PB164378BL	10/24/2024	17:09	PS028037.D	7.61	0.00
PB164378BS	PB164378BS	10/24/2024	17:33	PS028038.D	7.61	0.00
WB-301-BOT	P4397-06	10/24/2024	18:45	PS028041.D	7.61	0.00
WB-301-BOTMS	P4397-06MS	10/24/2024	19:09	PS028042.D	7.61	0.00
WB-301-BOTMSD	P4397-06MSD	10/24/2024	19:32	PS028043.D	7.61	0.00
I.BLK	I.BLK	10/24/2024	20:44	PS028046.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	21:08	PS028047.D	7.61	0.00
I.BLK	I.BLK	10/28/2024	10:08	PS028071.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	10:32	PS028072.D	7.61	0.00
PB164261TB	PB164261TB	10/28/2024	13:11	PS028073.D	7.61	0.00
I.BLK	I.BLK	10/28/2024	13:59	PS028075.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	17:17	PS028076.D	7.61	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164378BS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Lab Sample ID: PB164378BS **Date(s) Analyzed:** 10/24/2024 10/24/2024

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
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	4.90	9.7
	2	9.72	9.67	9.77	5.40	
2,4-D	1	8.18	8.13	8.23	4.90	2
	2	8.84	8.79	8.89	5.00	

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

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-301-BOTMS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Lab Sample ID: P4397-06MS **Date(s) Analyzed:** 10/24/2024 10/24/2024

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
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	47.3	76.6
	2	9.73	9.68	9.78	106	
2,4-D	1	8.18	8.13	8.23	49.0	11.9
	2	8.84	8.79	8.89	55.2	

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

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-301-BOTMSD

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Lab Sample ID: P4397-06MSD **Date(s) Analyzed:** 10/24/2024 10/24/2024

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	8.18	8.13	8.23	49.2	14
	2	8.83	8.78	8.88	56.6	
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	47.5	81.6
	2	9.73	9.68	9.78	113	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 18:45
Operator : AR\AJ
Sample : P4397-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-301-BOT

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:45:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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	7.091	7.614	367.1E6	105.1E6	136.109m	110.824
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

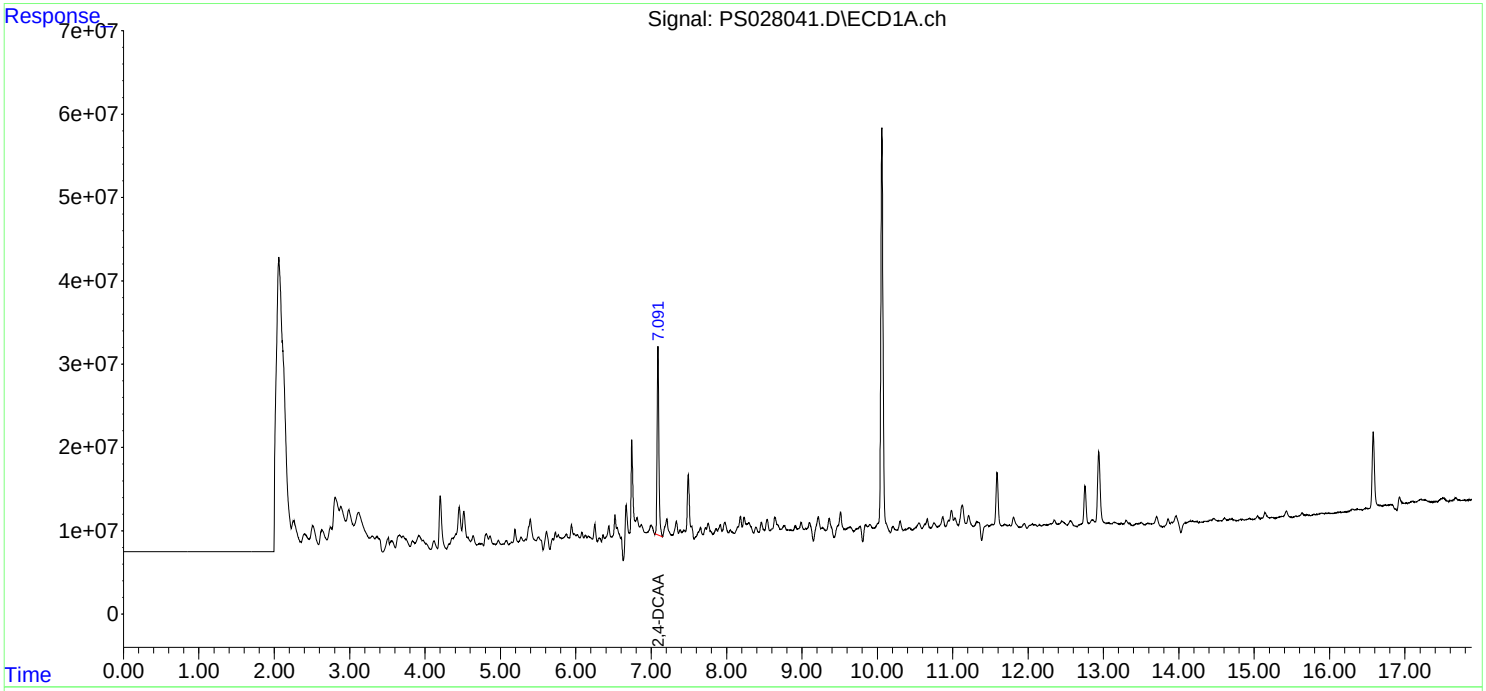
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 18:45
Operator : AR\AJ
Sample : P4397-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

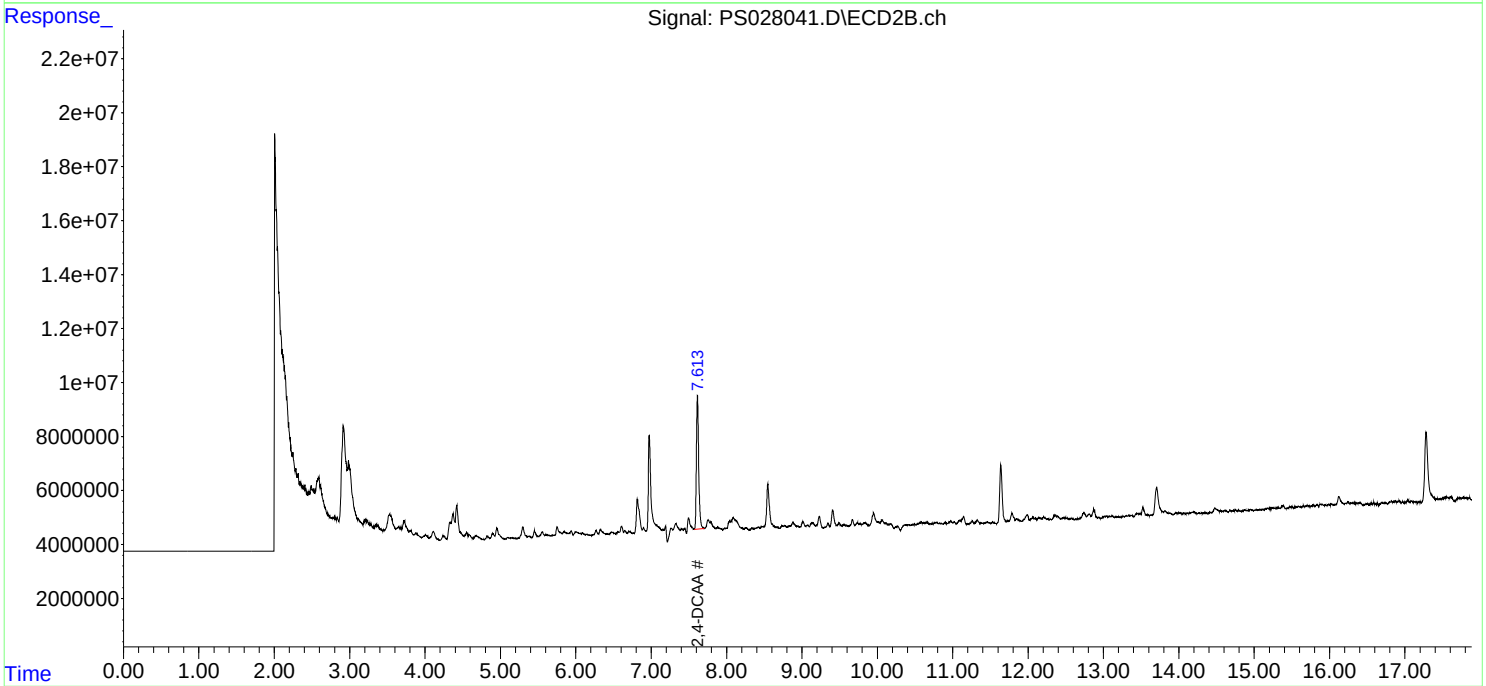
Instrument :
ECD_S
ClientSampleId :
WB-301-BOT

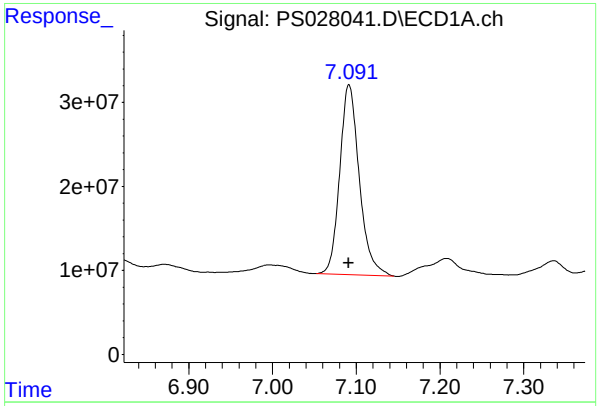
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:45:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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







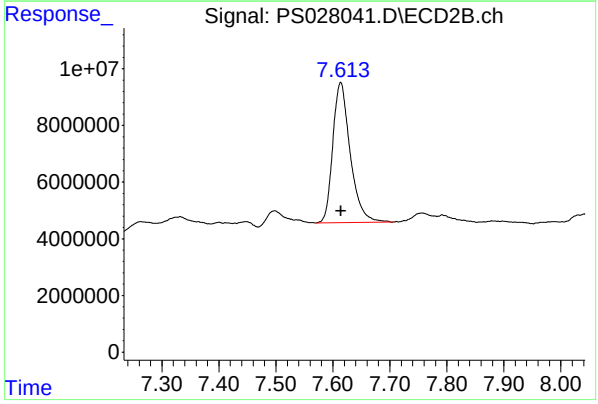
#4 2,4-DCAA

R.T.: 7.091 min
Delta R.T.: 0.000 min
Response: 367080368
Conc: 136.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
WB-301-BOT

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024



#4 2,4-DCAA

R.T.: 7.614 min
Delta R.T.: 0.000 min
Response: 105136006
Conc: 110.82 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028073.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 13:11
Operator : AR\AJ
Sample : PB164261TB
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164261TB

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 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 00:23:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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	7.089	7.606	942.5E6	270.6E6	349.479m	285.201
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

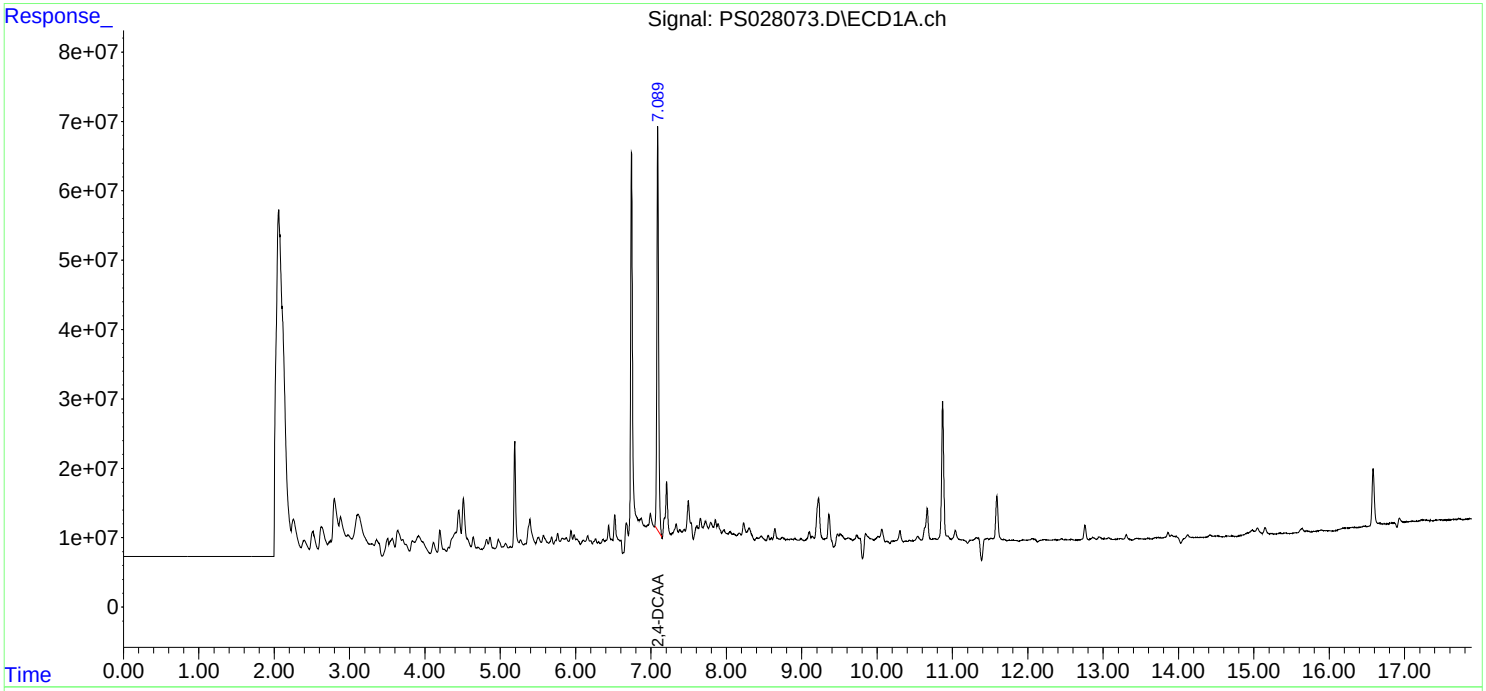
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028073.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 13:11
Operator : AR\AJ
Sample : PB164261TB
Misc :
ALS Vial : 4 Sample Multiplier: 1

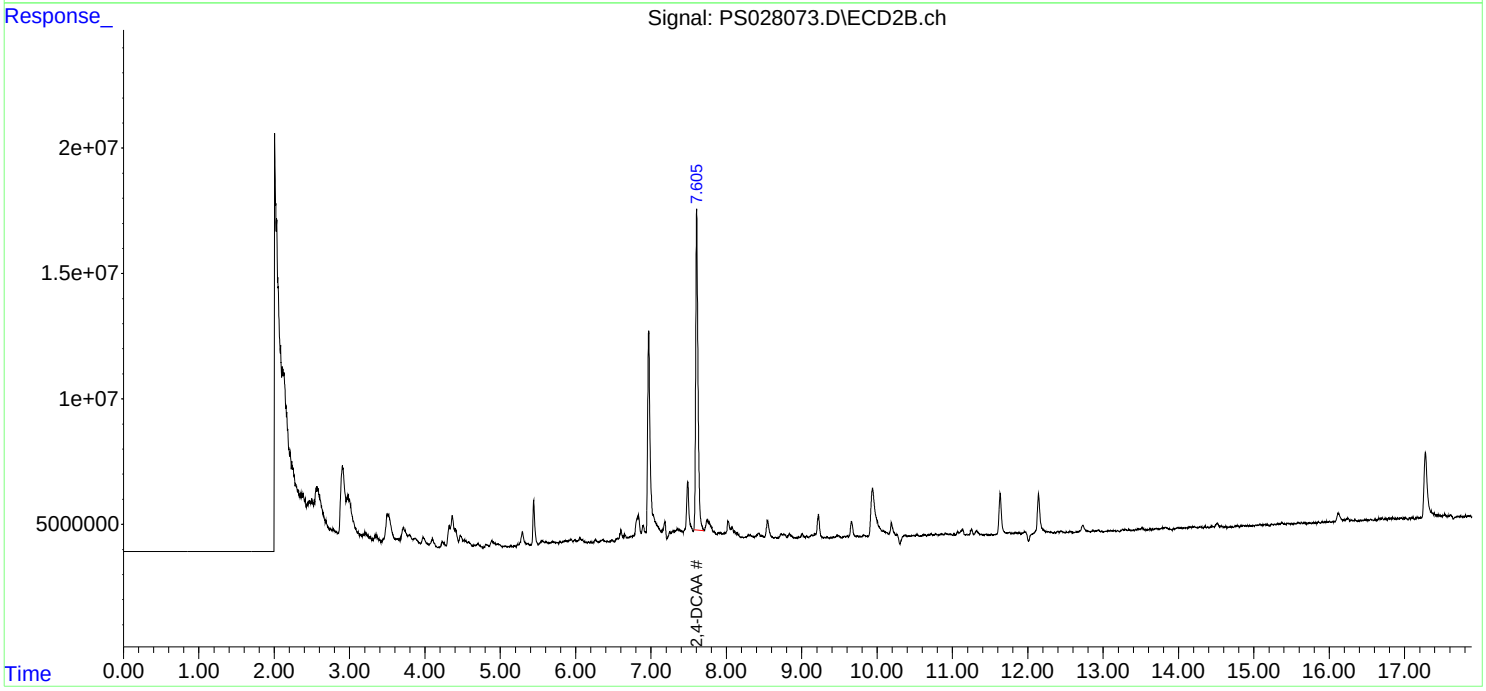
Instrument :
ECD_S
ClientSampleId :
PB164261TB

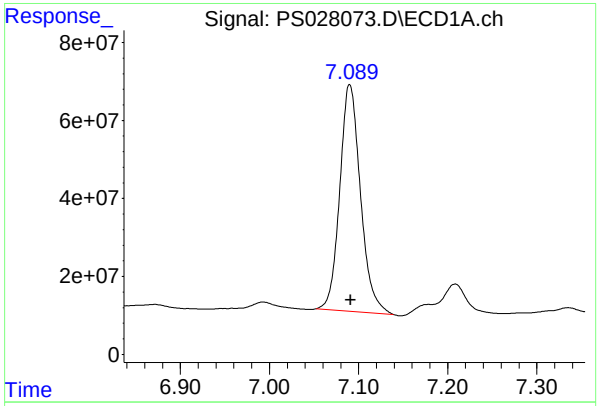
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 00:23:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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







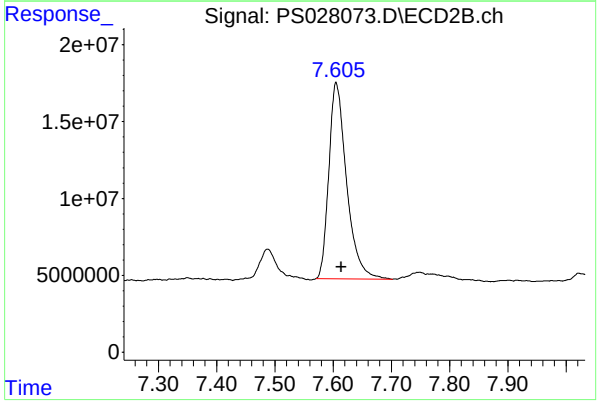
#4 2,4-DCAA

R.T.: 7.089 min
Delta R.T.: -0.002 min
Response: 942532239
Conc: 349.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164261TB

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



#4 2,4-DCAA

R.T.: 7.606 min
Delta R.T.: -0.009 min
Response: 270563667
Conc: 285.20 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 17:09
Operator : AR\AJ
Sample : PB164378BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164378BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:41:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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	7.093	7.609	1374.5E6	489.7E6	509.646m	516.148
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

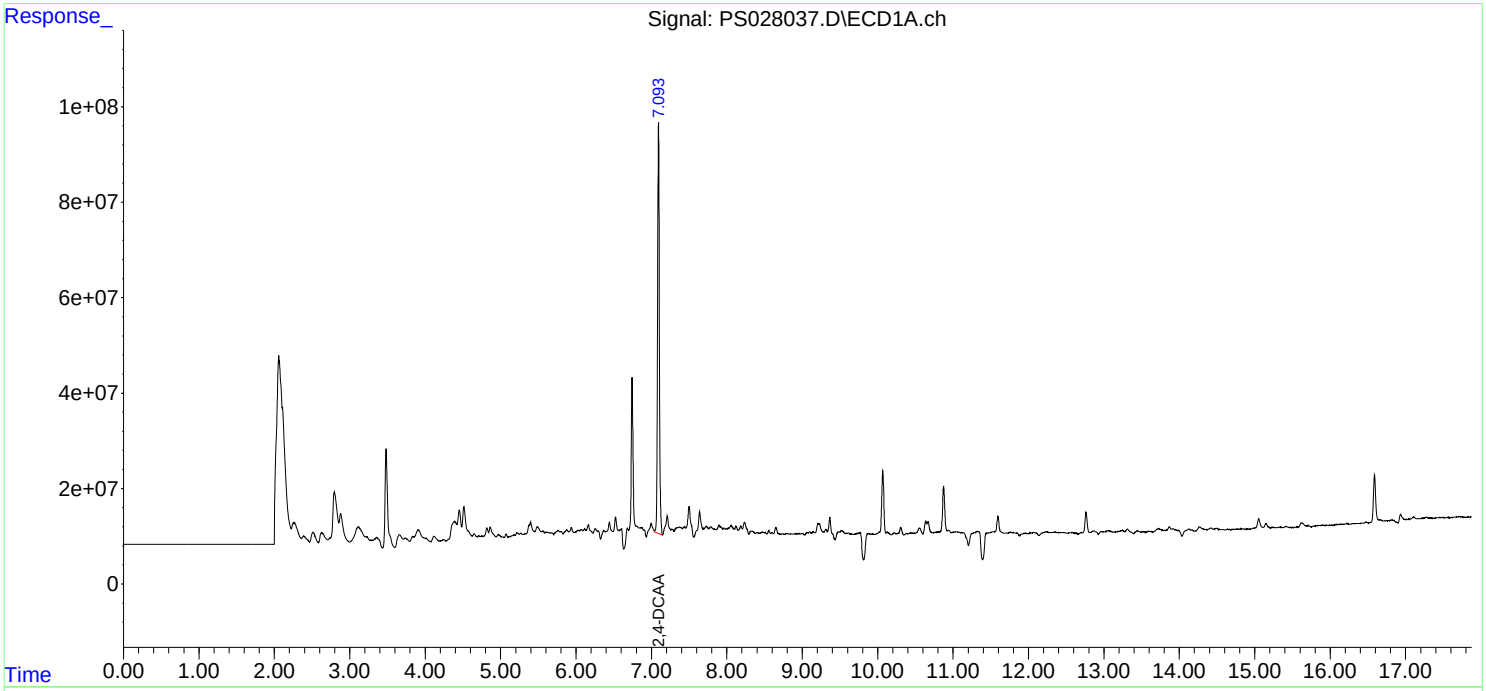
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 17:09
Operator : AR\AJ
Sample : PB164378BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

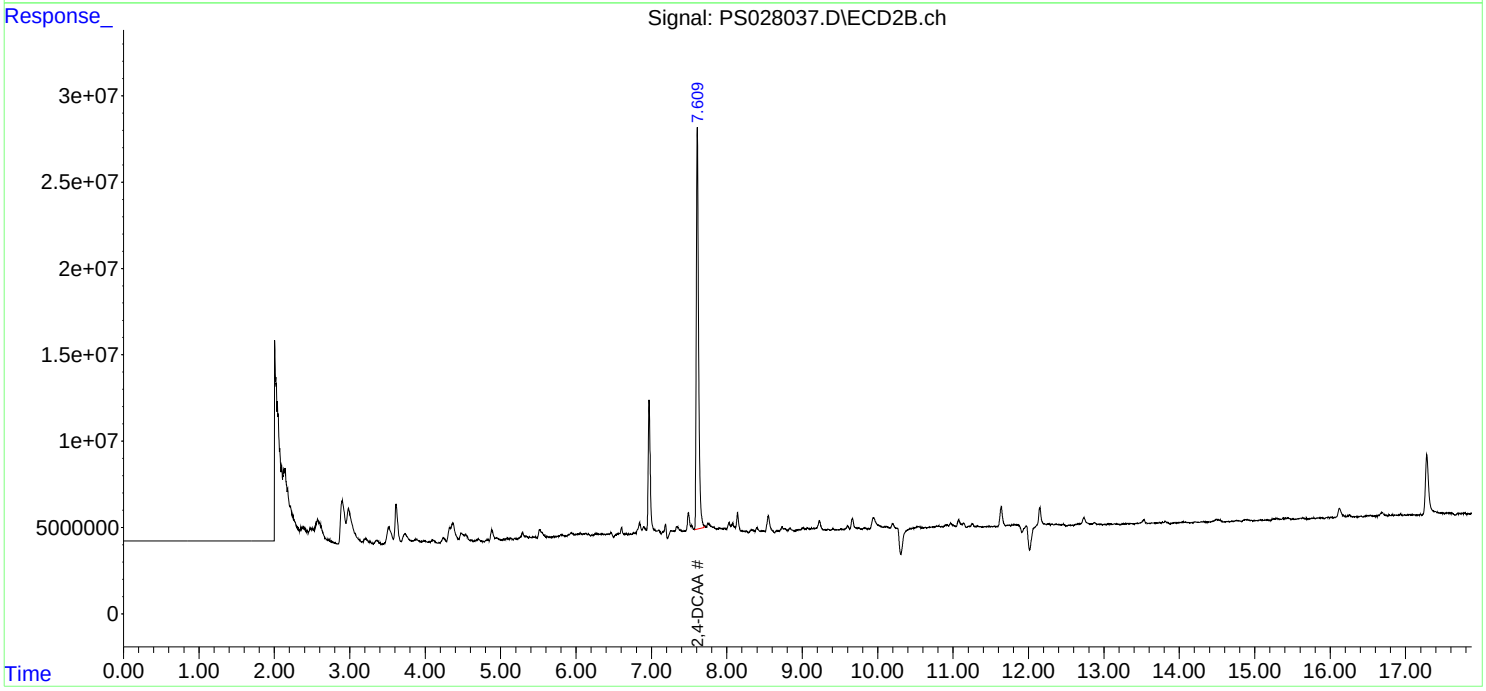
Instrument :
ECD_S
ClientSampleId :
PB164378BL

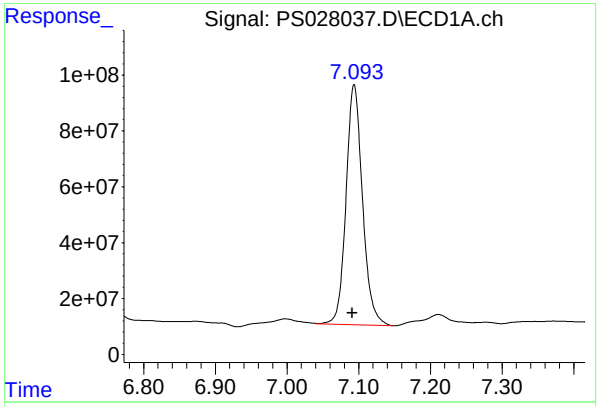
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:41:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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







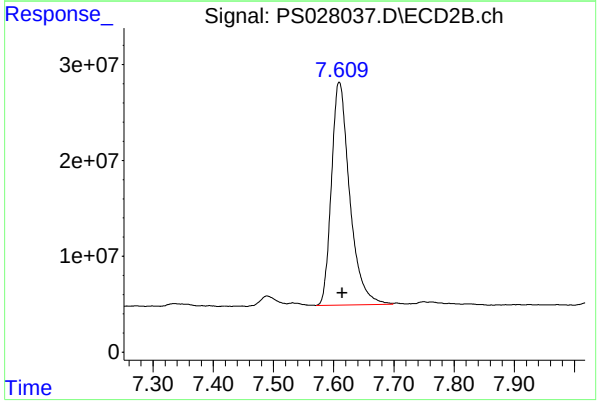
#4 2,4-DCAA

R.T.: 7.093 min
Delta R.T.: 0.002 min
Response: 1374498746
Conc: 509.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164378BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024



#4 2,4-DCAA

R.T.: 7.609 min
Delta R.T.: -0.005 min
Response: 489657956
Conc: 516.15 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 17:33
Operator : AR\AJ
Sample : PB164378BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164378BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:42:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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	7.092	7.613	1366.0E6	513.7E6	506.494	541.517
	Target Compounds						
1) T	Dalapon	2.539	2.612	2094.8E6	775.8E6	459.742	454.878
2) T	3,5-DICHL...	6.284	6.586	1837.1E6	659.2E6	464.268	492.861
3) T	4-Nitroph...	6.886	7.146	842.3E6	339.9E6	455.202	491.699
5) T	DICAMBA	7.270	7.805	5231.5E6	1689.3E6	478.335	511.177
6) T	MCPP	7.448	7.908	338.2E6	131.0E6	46.126	50.658
7) T	MCPA	7.592	8.147	482.5E6	228.9E6	45.505	49.742
8) T	DICHLORPROP	7.955	8.512	1377.6E6	488.7E6	477.724	521.599
9) T	2,4-D	8.178	8.837	1661.3E6	496.6E6	490.275	498.000
10) T	Pentachlo...	8.464	9.348	19935.8E6	6669.1E6	503.787	520.776
11) T	2,4,5-TP ...	9.030	9.724	7884.8E6	2460.6E6	488.197	539.051
12) T	2,4,5-T	9.315	10.137	8059.8E6	2165.9E6	482.435	526.673
13) T	2,4-DB	9.877	10.699	1249.0E6	279.6E6	474.374	547.387
14) T	DINOSEB	11.052	11.072	5258.5E6	1672.8E6	477.745	497.146
15) T	Picloram	10.867	12.150	10639.9E6	1877.2E6	477.867	411.959
16) T	DCPA	11.351	12.102	9048.8E6	2545.6E6	489.433	548.485

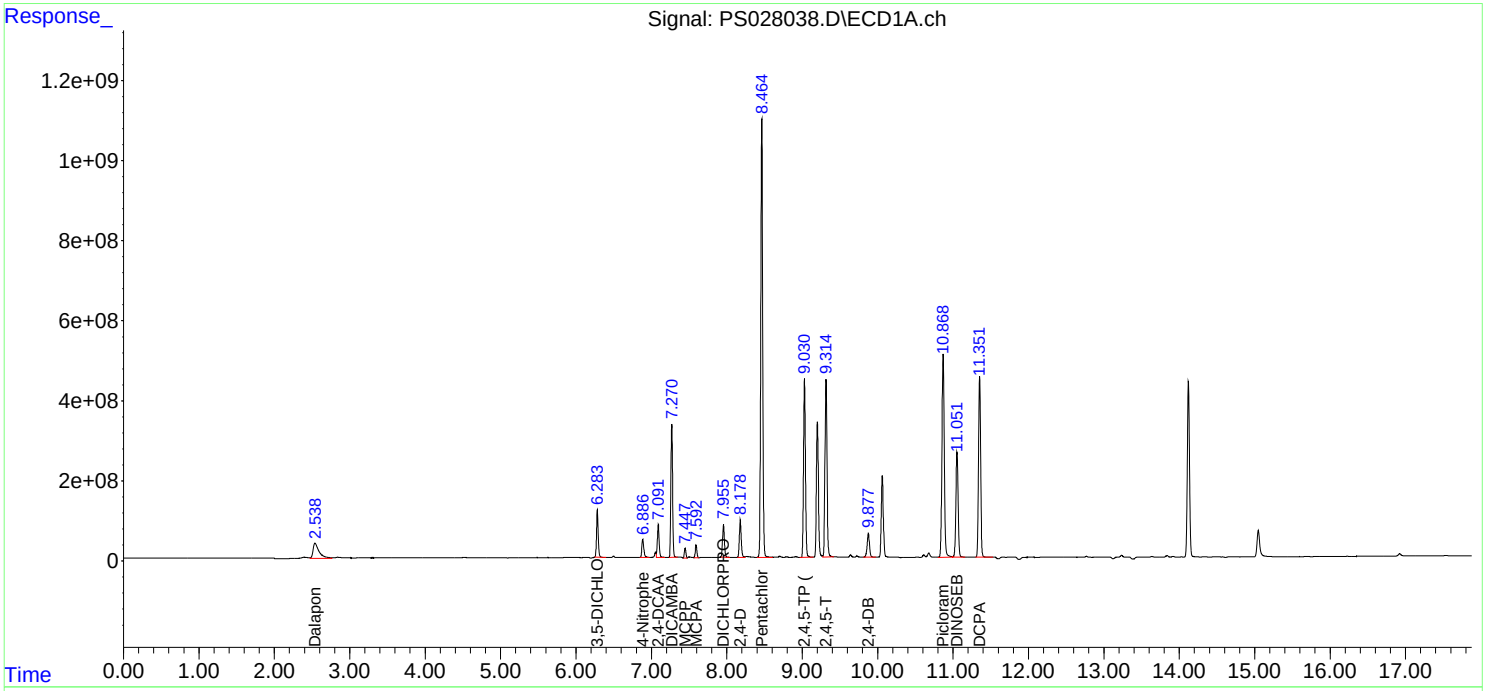
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

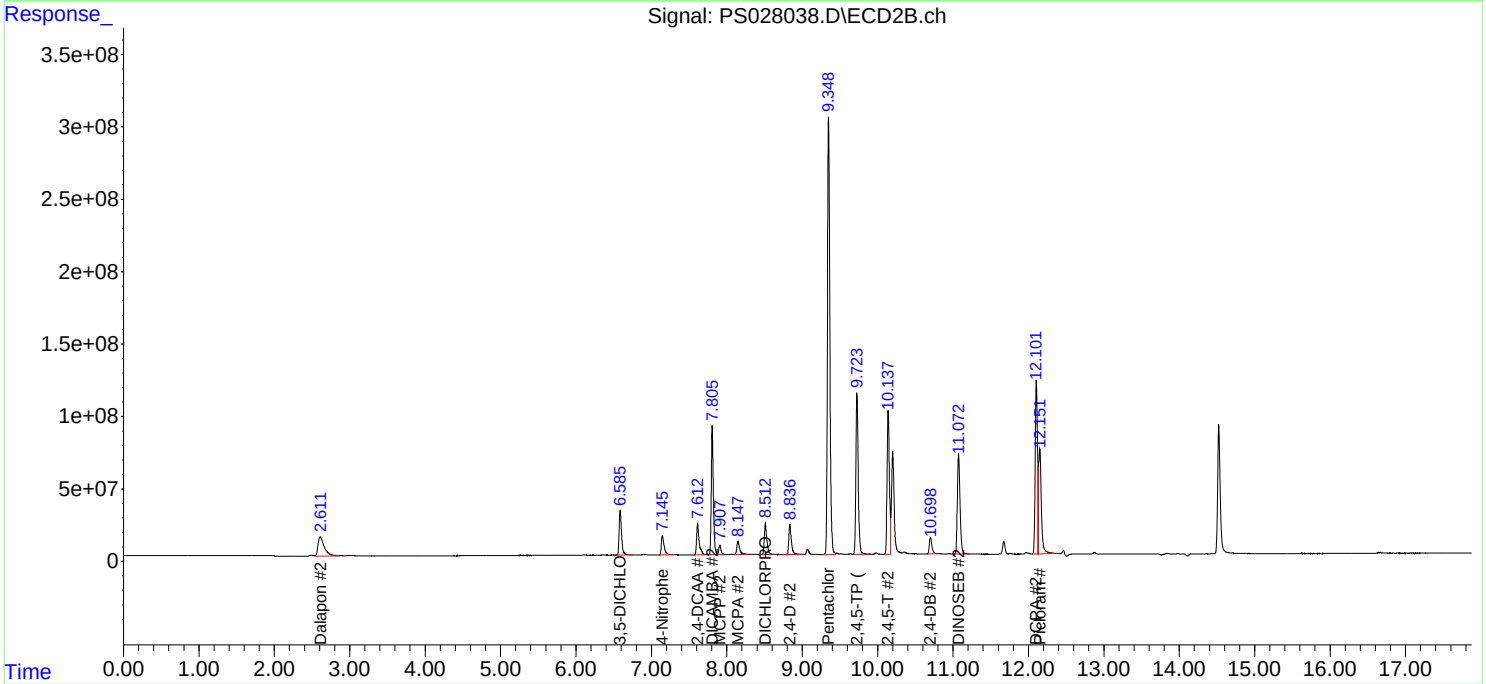
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 17:33
Operator : AR\AJ
Sample : PB164378BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164378BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:42:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 19:09
Operator : AR\AJ
Sample : P4397-06MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:46:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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	7.091	7.612	372.5E6	108.3E6	138.132m	114.209
	Target Compounds						
1) T	Dalapon	2.542	2.617	1501.3E6	593.4E6	329.484	347.931m
2) T	3,5-DICHL...	6.283	6.585	1113.2E6	379.0E6	281.331	283.362
5) T	DICAMBA	7.269	7.806	4487.4E6	1321.2E6	410.303	399.789
6) T	MCPP	7.447	7.907	308.6E6	88714857	42.083m	34.319
7) T	MCPA	7.591	8.144	392.5E6	197.2E6	37.010	42.856m
8) T	DICHLORPROP	7.954	8.509	1244.3E6	447.1E6	431.484	477.210
9) T	2,4-D	8.176	8.835	1660.6E6	550.3E6	490.057	551.913
10) T	Pentachlo...	8.463	9.347	5387.2E6	1448.7E6	136.136	113.125
11) T	2,4,5-TP ...	9.028	9.727	7631.5E6	4822.3E6	472.516	1056.448 #
12) T	2,4,5-T	9.313	10.137	7507.8E6	2074.7E6	449.393	504.482
13) T	2,4-DB	9.875	10.695	1031.4E6	207.3E6	391.725	405.788
14) T	DINOSEB	11.050	11.072	984.3E6	285.6E6	89.429	84.881
15) T	Picloram	10.865	12.144	8825.0E6	1858.8E6	396.357	407.909
16) T	DCPA	11.349	12.104	9964.0E6	2828.9E6	538.930	609.515

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

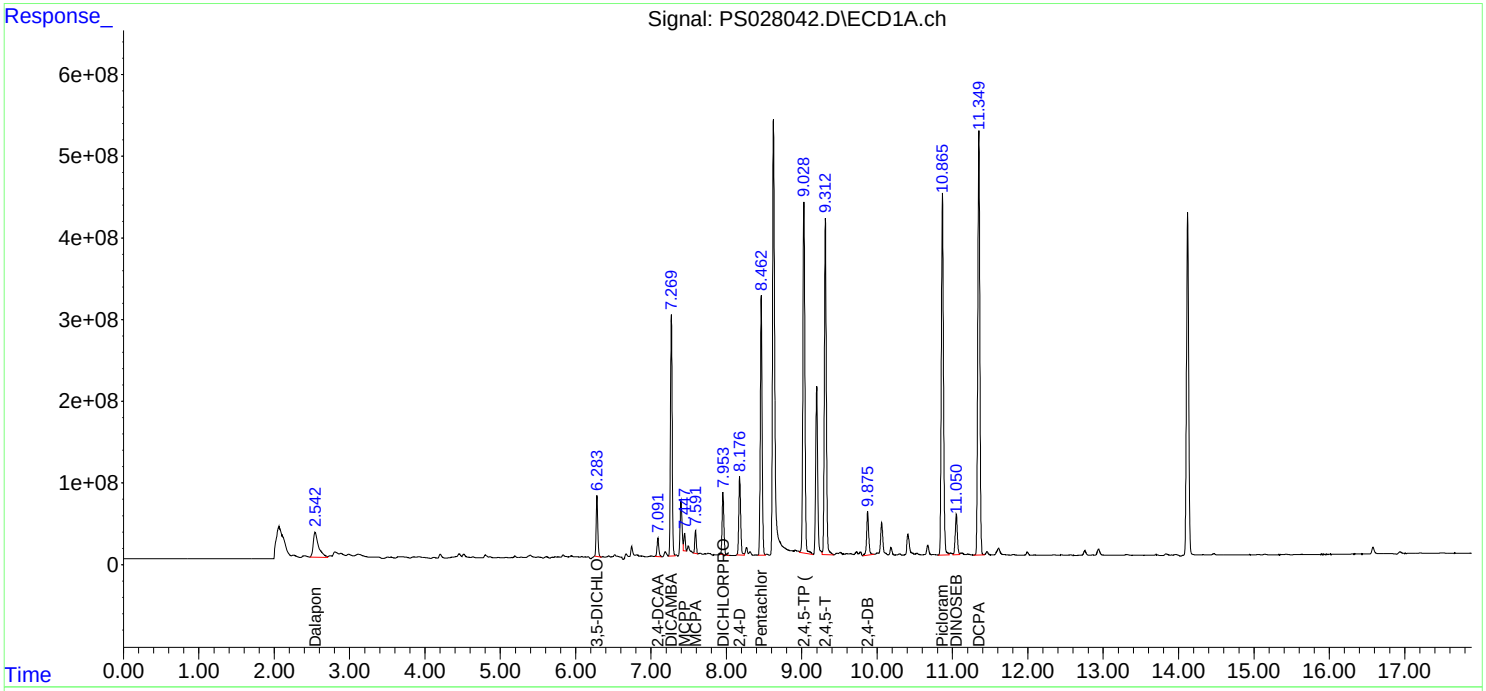
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 19:09
Operator : AR\AJ
Sample : P4397-06MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

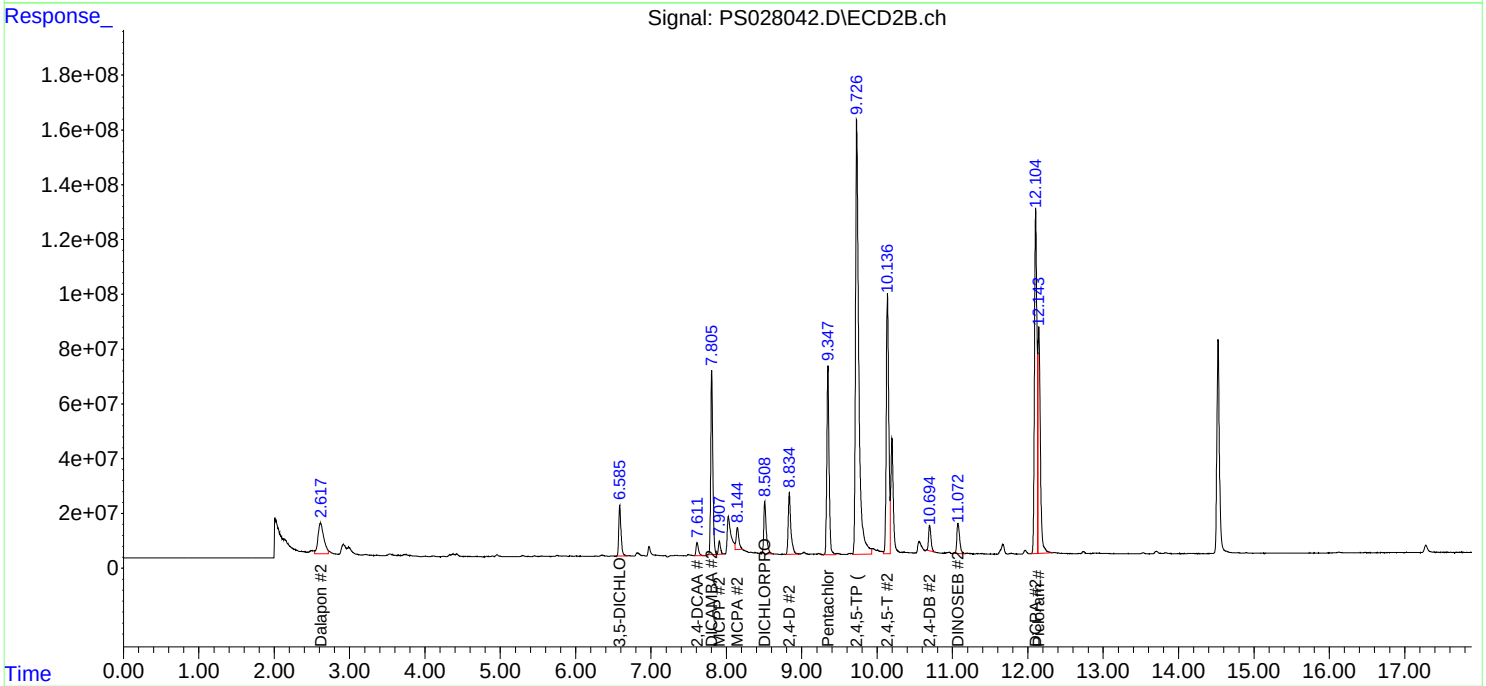
Instrument :
ECD_S
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:46:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 19:32
Operator : AR\AJ
Sample : P4397-06MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:47:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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	7.091	7.612	382.8E6	105.5E6	141.953m	111.164
	Target Compounds						
1) T	Dalapon	2.541	2.604	1470.9E6	630.1E6	322.816	369.479m
2) T	3,5-DICHL...	6.283	6.584	1107.8E6	381.1E6	279.962	284.899
5) T	DICAMBA	7.269	7.805	4448.1E6	1363.8E6	406.710	412.682
6) T	MCPP	7.446	7.908	321.1E6	91444977	43.785m	35.375
7) T	MCPA	7.591	8.146	399.4E6	167.7E6	37.666	36.431m
8) T	DICHLORPROP	7.954	8.510	1249.2E6	460.5E6	433.203	491.502
9) T	2,4-D	8.176	8.834	1666.1E6	564.5E6	491.685	566.078
10) T	Pentachlo...	8.462	9.346	5264.8E6	1426.2E6	133.043	111.367
11) T	2,4,5-TP ...	9.029	9.730	7670.8E6	5164.9E6	474.948	1131.497 #
12) T	2,4,5-T	9.312	10.137	7628.9E6	2075.6E6	456.643	504.712
13) T	2,4-DB	9.875	10.697	1025.3E6	217.2E6	389.413	425.240
14) T	DINOSEB	11.050	11.073	962.5E6	270.8E6	87.443	80.490
15) T	Picloram	10.866	12.144	8907.0E6	2232.6E6	400.039	489.957
16) T	DCPA	11.350	12.104	10107.5E6	2695.1E6	546.695	580.696

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

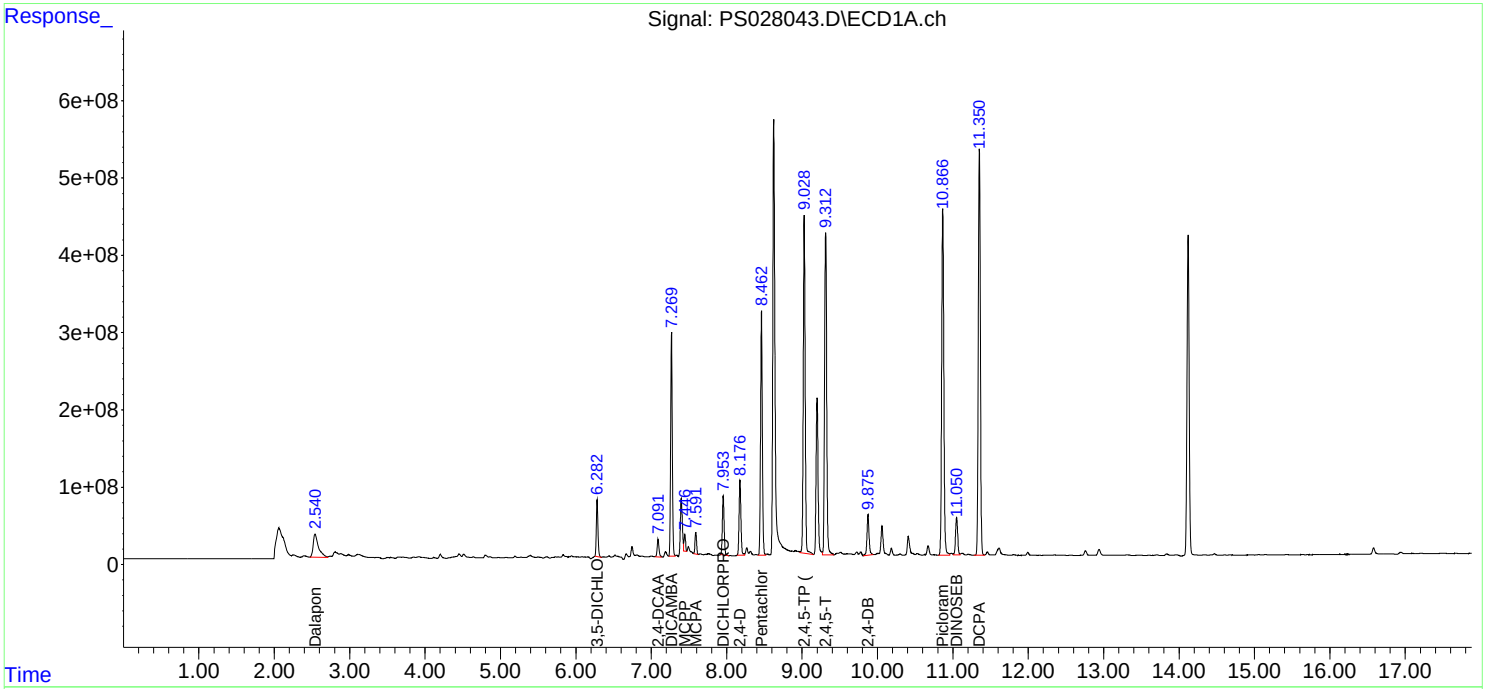
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 19:32
Operator : AR\AJ
Sample : P4397-06MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

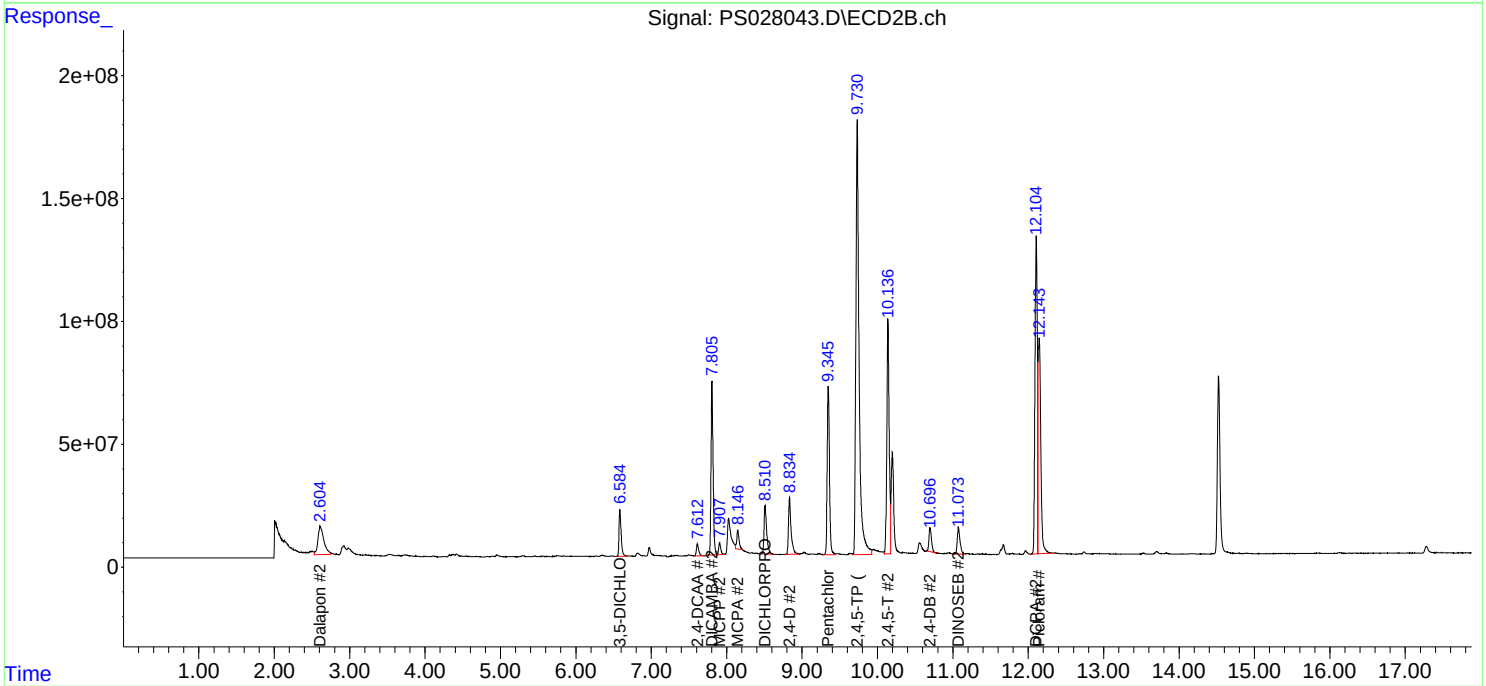
Instrument :
ECD_S
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:47:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 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





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

Manual Integration Report

Sequence:	PS102324	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS028008.D	MCPA #2	Abdul	10/24/2024 2:21:48 PM	Ankita	10/24/2024 2:24:57	Peak Integrated by Software
HSTDICC1000	PS028011.D	2,4-DCAA	Abdul	10/24/2024 2:21:51 PM	Ankita	10/24/2024 2:24:58	Peak Integrated by Software
HSTDCCC750	PS028015.D	Dalapon #2	Abdul	10/24/2024 2:21:55 PM	Ankita	10/24/2024 2:25:00	Peak Integrated by Software
HSTDCCC750	PS028024.D	Picloram #2	Abdul	10/24/2024 2:22:11 PM	Ankita	10/24/2024 2:25:11	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS102424	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS028031.D	2,4-DCAA	Abdul	10/25/2024 3:27:05 PM	Ankita	10/28/2024 9:12:15	Peak Integrated by Software
I.BLK	PS028035.D	2,4-DCAA	Abdul	10/25/2024 3:27:09 PM	Ankita	10/28/2024 9:12:17	Peak Integrated by Software
PB164378BL	PS028037.D	2,4-DCAA	Abdul	10/25/2024 3:27:12 PM	Ankita	10/28/2024 9:12:19	Peak Integrated by Software
P4397-06	PS028041.D	2,4-DCAA	Abdul	10/25/2024 3:27:18 PM	Ankita	10/28/2024 9:12:22	Peak Integrated by Software
P4397-06MS	PS028042.D	2,4-DCAA	Abdul	10/25/2024 3:27:21 PM	Ankita	10/28/2024 9:12:23	Peak Integrated by Software
P4397-06MS	PS028042.D	Dalapon #2	Abdul	10/25/2024 3:27:21 PM	Ankita	10/28/2024 9:12:23	Peak Integrated by Software
P4397-06MS	PS028042.D	MCPA #2	Abdul	10/25/2024 3:27:21 PM	Ankita	10/28/2024 9:12:23	Peak Integrated by Software
P4397-06MS	PS028042.D	MCPP	Abdul	10/25/2024 3:27:21 PM	Ankita	10/28/2024 9:12:23	Peak Integrated by Software
P4397-06MSD	PS028043.D	2,4-DCAA	Abdul	10/25/2024 3:27:24 PM	Ankita	10/28/2024 9:12:26	Peak Integrated by Software
P4397-06MSD	PS028043.D	Dalapon #2	Abdul	10/25/2024 3:27:24 PM	Ankita	10/28/2024 9:12:26	Peak Integrated by Software
P4397-06MSD	PS028043.D	MCPA #2	Abdul	10/25/2024 3:27:24 PM	Ankita	10/28/2024 9:12:26	Peak Integrated by Software
P4397-06MSD	PS028043.D	MCPP	Abdul	10/25/2024 3:27:24 PM	Ankita	10/28/2024 9:12:26	Peak Integrated by Software
I.BLK	PS028046.D	2,4-DCAA	Abdul	10/25/2024 3:27:33 PM	Ankita	10/28/2024 9:12:29	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS102424	Instrument	ECD_s

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:	PS102824	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS028071.D	2,4-DCAA	Abdul	10/29/2024 8:52:10 AM	Ankita	10/29/2024 8:52:39	Peak Integrated by Software
HSTDCCC750	PS028072.D	MCPP #2	Abdul	10/29/2024 8:52:11 AM	Ankita	10/29/2024 8:52:40	Peak Integrated by Software
PB164261TB	PS028073.D	2,4-DCAA	Abdul	10/29/2024 8:52:14 AM	Ankita	10/29/2024 8:52:41	Peak Integrated by Software
PB164336TB	PS028074.D	2,4-DCAA	Abdul	10/29/2024 8:52:15 AM	Ankita	10/29/2024 8:52:43	Peak Integrated by Software

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 # PS102324

Review By	Abdul	Review On	10/24/2024 2:22:53 PM		
Supervise By	Ankita	Supervise On	10/24/2024 2:25:32 PM		
SubDirectory	PS102324	HP Acquire Method		HP Processing Method	ps102324 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	PS028006.D	23 Oct 2024 10:40	AR\AJ	Ok
2	I.BLK	PS028007.D	23 Oct 2024 11:04	AR\AJ	Ok
3	HSTDICC200	PS028008.D	23 Oct 2024 11:28	AR\AJ	Ok,M
4	HSTDICC500	PS028009.D	23 Oct 2024 11:52	AR\AJ	Ok
5	HSTDICC750	PS028010.D	23 Oct 2024 12:16	AR\AJ	Ok
6	HSTDICC1000	PS028011.D	23 Oct 2024 12:40	AR\AJ	Ok,M
7	HSTDICC1500	PS028012.D	23 Oct 2024 13:04	AR\AJ	Ok
8	HSTDICV750	PS028013.D	23 Oct 2024 13:28	AR\AJ	Ok
9	I.BLK	PS028014.D	23 Oct 2024 14:14	AR\AJ	Ok
10	HSTDCCC750	PS028015.D	23 Oct 2024 14:38	AR\AJ	Ok,M
11	P4443-01	PS028016.D	23 Oct 2024 15:02	AR\AJ	Ok,M
12	P4443-06	PS028017.D	23 Oct 2024 15:26	AR\AJ	Ok,M
13	P4458-01	PS028018.D	23 Oct 2024 15:49	AR\AJ	Ok,M
14	P4458-01MS	PS028019.D	23 Oct 2024 16:13	AR\AJ	Ok,M
15	P4458-01MSD	PS028020.D	23 Oct 2024 16:37	AR\AJ	Ok,M
16	PB174307BL	PS028021.D	23 Oct 2024 17:01	AR\AJ	Ok,M
17	PB174307BS	PS028022.D	23 Oct 2024 17:25	AR\AJ	Ok
18	I.BLK	PS028023.D	23 Oct 2024 18:14	AR\AJ	Ok
19	HSTDCCC750	PS028024.D	23 Oct 2024 18:38	AR\AJ	Ok,M
20	P4468-03	PS028025.D	23 Oct 2024 19:02	AR\AJ	Ok,M
21	P4468-05	PS028026.D	23 Oct 2024 19:26	AR\AJ	Ok

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 # PS102324

Review By	Abdul	Review On	10/24/2024 2:22:53 PM		
Supervise By	Ankita	Supervise On	10/24/2024 2:25:32 PM		
SubDirectory	PS102324	HP Acquire Method		HP Processing Method	ps102324 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	P4467-01	PS028027.D	23 Oct 2024 19:50	AR\AJ	Ok
23	I.BLK	PS028028.D	24 Oct 2024 01:27	AR\AJ	Ok
24	HSTDCCC750	PS028029.D	24 Oct 2024 01:51	AR\AJ	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 # PS102424

Review By	Abdul	Review On	10/25/2024 3:28:01 PM		
Supervise By	Ankita	Supervise On	10/28/2024 9:12:45 AM		
SubDirectory	PS102424	HP Acquire Method		HP Processing Method	ps102324 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	PS028030.D	24 Oct 2024 09:02	AR\AJ	Ok
2	I.BLK	PS028031.D	24 Oct 2024 09:26	AR\AJ	Ok,M
3	HSTDCCC750	PS028032.D	24 Oct 2024 09:50	AR\AJ	Ok
4	P4472-01	PS028033.D	24 Oct 2024 10:13	AR\AJ	Ok
5	P4472-05	PS028034.D	24 Oct 2024 10:37	AR\AJ	Ok
6	I.BLK	PS028035.D	24 Oct 2024 11:01	AR\AJ	Ok,M
7	HSTDCCC750	PS028036.D	24 Oct 2024 11:25	AR\AJ	Ok
8	PB164378BL	PS028037.D	24 Oct 2024 17:09	AR\AJ	Ok,M
9	PB164378BS	PS028038.D	24 Oct 2024 17:33	AR\AJ	Ok
10	PB164261TB	PS028039.D	24 Oct 2024 17:57	AR\AJ	Not Ok
11	PB164336TB	PS028040.D	24 Oct 2024 18:21	AR\AJ	Not Ok
12	P4397-06	PS028041.D	24 Oct 2024 18:45	AR\AJ	Ok,M
13	P4397-06MS	PS028042.D	24 Oct 2024 19:09	AR\AJ	Ok,M
14	P4397-06MSD	PS028043.D	24 Oct 2024 19:32	AR\AJ	Ok,M
15	P4460-04	PS028044.D	24 Oct 2024 19:56	AR\AJ	Not Ok
16	P4462-02	PS028045.D	24 Oct 2024 20:20	AR\AJ	Ok
17	I.BLK	PS028046.D	24 Oct 2024 20:44	AR\AJ	Ok,M
18	HSTDCCC750	PS028047.D	24 Oct 2024 21:08	AR\AJ	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 # PS102824

Review By	Abdul	Review On	10/29/2024 8:52:20 AM		
Supervise By	Ankita	Supervise On	10/29/2024 8:52:48 AM		
SubDirectory	PS102824	HP Acquire Method		HP Processing Method	ps102324 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	PS028070.D	28 Oct 2024 09:44	AR\AJ	Ok
2	I.BLK	PS028071.D	28 Oct 2024 10:08	AR\AJ	Ok,M
3	HSTDCCC750	PS028072.D	28 Oct 2024 10:32	AR\AJ	Ok,M
4	PB164261TB	PS028073.D	28 Oct 2024 13:11	AR\AJ	Ok,M
5	PB164336TB	PS028074.D	28 Oct 2024 13:35	AR\AJ	Ok,M
6	I.BLK	PS028075.D	28 Oct 2024 13:59	AR\AJ	Ok
7	HSTDCCC750	PS028076.D	28 Oct 2024 17:17	AR\AJ	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 # PS102324

Review By	Abdul	Review On	10/24/2024 2:22:53 PM		
Supervise By	Ankita	Supervise On	10/24/2024 2:25:32 PM		
SubDirectory	PS102324	HP Acquire Method		HP Processing Method	ps102324 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	PS028006.D	23 Oct 2024 10:40		AR\AJ	Ok
2	I.BLK	I.BLK	PS028007.D	23 Oct 2024 11:04		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028008.D	23 Oct 2024 11:28		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS028009.D	23 Oct 2024 11:52		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS028010.D	23 Oct 2024 12:16		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028011.D	23 Oct 2024 12:40		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS028012.D	23 Oct 2024 13:04		AR\AJ	Ok
8	HSTDICV750	ICVPS102324	PS028013.D	23 Oct 2024 13:28		AR\AJ	Ok
9	I.BLK	I.BLK	PS028014.D	23 Oct 2024 14:14		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028015.D	23 Oct 2024 14:38		AR\AJ	Ok,M
11	P4443-01	OG-315-HR-502-COMF	PS028016.D	23 Oct 2024 15:02		AR\AJ	Ok,M
12	P4443-06	OG-315-HR-502-COMF	PS028017.D	23 Oct 2024 15:26		AR\AJ	Ok,M
13	P4458-01	280517	PS028018.D	23 Oct 2024 15:49		AR\AJ	Ok,M
14	P4458-01MS	280517MS	PS028019.D	23 Oct 2024 16:13	Some compound recovery fail	AR\AJ	Ok,M
15	P4458-01MSD	280517MSD	PS028020.D	23 Oct 2024 16:37	Some compound recovery fail , RPD is high in MCPA	AR\AJ	Ok,M
16	PB174307BL	PB174307BL	PS028021.D	23 Oct 2024 17:01	Typo PB164307BL	AR\AJ	Ok,M
17	PB174307BS	PB174307BS	PS028022.D	23 Oct 2024 17:25	Typo PB164307BS	AR\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102324

Review By	Abdul	Review On	10/24/2024 2:22:53 PM		
Supervise By	Ankita	Supervise On	10/24/2024 2:25:32 PM		
SubDirectory	PS102324	HP Acquire Method		HP Processing Method	ps102324 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	

18	I.BLK	I.BLK	PS028023.D	23 Oct 2024 18:14		AR\AJ	Ok
19	HSTDCCC750	HSTDCCC750	PS028024.D	23 Oct 2024 18:38		AR\AJ	Ok,M
20	P4468-03	ETGI-329	PS028025.D	23 Oct 2024 19:02		AR\AJ	Ok,M
21	P4468-05	ETGI-345	PS028026.D	23 Oct 2024 19:26		AR\AJ	Ok
22	P4467-01	TP-1	PS028027.D	23 Oct 2024 19:50		AR\AJ	Ok
23	I.BLK	I.BLK	PS028028.D	24 Oct 2024 01:27		AR\AJ	Ok
24	HSTDCCC750	HSTDCCC750	PS028029.D	24 Oct 2024 01:51		AR\AJ	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 # PS102424

Review By	Abdul	Review On	10/25/2024 3:28:01 PM		
Supervise By	Ankita	Supervise On	10/28/2024 9:12:45 AM		
SubDirectory	PS102424	HP Acquire Method		HP Processing Method	ps102324 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	PS028030.D	24 Oct 2024 09:02		AR\AJ	Ok
2	I.BLK	I.BLK	PS028031.D	24 Oct 2024 09:26		AR\AJ	Ok,M
3	HSTDCCC750	HSTDCCC750	PS028032.D	24 Oct 2024 09:50		AR\AJ	Ok
4	P4472-01	BP-F-28	PS028033.D	24 Oct 2024 10:13		AR\AJ	Ok
5	P4472-05	BP-F-6	PS028034.D	24 Oct 2024 10:37		AR\AJ	Ok
6	I.BLK	I.BLK	PS028035.D	24 Oct 2024 11:01		AR\AJ	Ok,M
7	HSTDCCC750	HSTDCCC750	PS028036.D	24 Oct 2024 11:25		AR\AJ	Ok
8	PB164378BL	PB164378BL	PS028037.D	24 Oct 2024 17:09		AR\AJ	Ok,M
9	PB164378BS	PB164378BS	PS028038.D	24 Oct 2024 17:33		AR\AJ	Ok
10	PB164261TB	PB164261TB	PS028039.D	24 Oct 2024 17:57	surrogate fail in 2nd column	AR\AJ	Not Ok
11	PB164336TB	PB164336TB	PS028040.D	24 Oct 2024 18:21	surrogate fail in 2nd column	AR\AJ	Not Ok
12	P4397-06	WB-301-BOT	PS028041.D	24 Oct 2024 18:45	both surrogate fail confirms with ms/msd	AR\AJ	Ok,M
13	P4397-06MS	WB-301-BOTMS	PS028042.D	24 Oct 2024 19:09	both surrogate fail , some comp recovery fails	AR\AJ	Ok,M
14	P4397-06MSD	WB-301-BOTMSD	PS028043.D	24 Oct 2024 19:32	both surrogate fail , some comp recovery fails	AR\AJ	Ok,M
15	P4460-04	WB-303-BOT	PS028044.D	24 Oct 2024 19:56	both Surrogate Fail	AR\AJ	Not Ok
16	P4462-02	C0AL2	PS028045.D	24 Oct 2024 20:20		AR\AJ	Ok
17	I.BLK	I.BLK	PS028046.D	24 Oct 2024 20:44		AR\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102424

Review By	Abdul	Review On	10/25/2024 3:28:01 PM		
Supervise By	Ankita	Supervise On	10/28/2024 9:12:45 AM		
SubDirectory	PS102424	HP Acquire Method		HP Processing Method	ps102324 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	

18	HSTDCCC750	HSTDCCC750	PS028047.D	24 Oct 2024 21:08		AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102824

Review By	Abdul	Review On	10/29/2024 8:52:20 AM		
Supervise By	Ankita	Supervise On	10/29/2024 8:52:48 AM		
SubDirectory	PS102824	HP Acquire Method		HP Processing Method	ps102324 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	PS028070.D	28 Oct 2024 09:44		AR\AJ	Ok
2	I.BLK	I.BLK	PS028071.D	28 Oct 2024 10:08		AR\AJ	Ok,M
3	HSTDCCC750	HSTDCCC750	PS028072.D	28 Oct 2024 10:32		AR\AJ	Ok,M
4	PB164261TB	PB164261TB	PS028073.D	28 Oct 2024 13:11		AR\AJ	Ok,M
5	PB164336TB	PB164336TB	PS028074.D	28 Oct 2024 13:35		AR\AJ	Ok,M
6	I.BLK	I.BLK	PS028075.D	28 Oct 2024 13:59		AR\AJ	Ok
7	HSTDCCC750	HSTDCCC750	PS028076.D	28 Oct 2024 17:17		AR\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

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

TCLP Filter ID : 114771

Start Prep Date : 10/18/2024 **Time :** 17:00

End Prep Date : 10/19/2024 **Time :** 10:15

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	N/A
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 CHECKED,30 RPM. Particle size reduction is not required. p4460-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/21/24 0810	JP TCLP Room	JPP EXT
	Preparation Group	Analysis Group VOA PIG

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

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
P4397-06	WB-301-BOT	01	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4443-05	OG-315-HR-502-COMP-29	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P4443-10	OG-315-HR-502-COMP-30	03	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4458-02	280517	04	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4460-04	WB-303-BOT	05	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-1
PB164261TB	LEB261	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4397-06	WB-301-BOT	N/A	N/A	N/A	N/A	100	N/A
P4443-05	OG-315-HR-502-COMP-29	N/A	N/A	N/A	N/A	100	N/A
P4443-10	OG-315-HR-502-COMP-30	N/A	N/A	N/A	N/A	100	N/A
P4458-02	280517	N/A	N/A	N/A	N/A	100	N/A
P4460-04	WB-303-BOT	N/A	N/A	N/A	N/A	100	N/A
PB164261TB	LEB261	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB164261

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
P4397-06	WB-301-BOT	5.02	96.5	7.4	2.5	#1	4.93
P4443-05	OG-315-HR-502-COMP-29	5.03	96.5	7.6	2.5	#1	4.93
P4443-10	OG-315-HR-502-COMP-30	5.02	96.5	6.0	2.0	#1	4.93
P4458-02	280517	5.01	96.5	7.6	2.5	#1	4.93
P4460-04	WB-303-BOT	5.02	96.5	8.4	3.0	#1	4.93
PB164261TB	LEB261	N/A	N/A	N/A	N/A	#1	4.93

P4397

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP P4397 **WorkList ID :** 184595 **Department :** TCLP Extraction **Date :** 10-18-2024 14:05:11

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4397-06	WB-301-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06		10/10/2024	1311
P4443-05	OG-315-HR-502-COMP-29	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311
P4443-10	OG-315-HR-502-COMP-30	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311
P4458-02	280517	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/18/2024	1311
P4460-04	WB-303-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K51	10/18/2024	1311

909 of 1303

Date/Time 10.18.24 16:20
Raw Sample Received by: JQ WPC
Raw Sample Relinquished by: CP SR

Date/Time 10.18.24 18:30
Raw Sample Received by: CP SR
Raw Sample Relinquished by: JQ WPC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164378

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RJ

Filter By: EH

pH Meter ID: N/A

Hood ID: 4,7

Extraction Start Date : 10/24/2024

Extraction Start Time : 11:28

Extraction End Date : 10/24/2024

Extraction End Time : 16:30

Concentration By: EH

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
12N H2SO4	N/A	EP2552
NAOH 6N	N/A	EP2491
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14150
Diazomethane	N/A	EP2529
Hexane	N/A	E3816
NACL	N/A	M4459
N/A	N/A	N/A
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 6N NaOH>12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4<2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS721.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/24/24	RP (Ext. Lab)	[signature] Resh/Pest Lab
16:35	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164378

Analytical Method: M8151A-Herbicide-22

Concentration Date: 10/24/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164261TB	PB164261TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			SEP-08
PB164336TB	PB164336TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			9
PB164378BL	HBLK378	TCLP Herbicide	1000	6	RUPESH	ritesh	10			10
PB164378BS	HLCS378	TCLP Herbicide	1000	6	RUPESH	ritesh	10			11
P4397-06	WB-301-BOT	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		12
P4397-06MS	WB-301-BOTMS	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		13
P4397-06MSD	WB-301-BOTMSD	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		14
P4460-04	WB-303-BOT	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		15
P4462-02	C0AL2	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		16

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164336

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
P4462-02	C0AL2	N/A	N/A	N/A	N/A	N/A	N/A	8.0	1.5	N/A
~~P4488-03~~	~~HCC-1~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~4.5~~	~~1.0~~	~~N/A~~
~~P4488-05~~	~~HCC-2~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~5.0~~	~~1.5~~	~~N/A~~
P4511-01	266	N/A	N/A	N/A	N/A	N/A	N/A	8.0	1.0	N/A
P4512-01	3140	N/A	N/A	N/A	N/A	N/A	N/A	7.6	1.5	N/A
P4512-02	3149	N/A	N/A	N/A	N/A	N/A	N/A	7.6	1.0	N/A
P4513-04	D3682	N/A	N/A	N/A	N/A	N/A	N/A	8.6	1.5	N/A
PB164336TB	LEB336	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

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	Pr... P...
P4397-06	WB-301-BOT	01	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-
P4443-05	OG-315-HR-502-COMP-29	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-
P4443-10	OG-315-HR-502-COMP-30	03	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-
P4458-02	280517	04	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4460-04	WB-303-BOT	05	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-1
PB164261TB	LEB261	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

10/21/2024

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

LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**SOIL**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/15/24	
P4397-02	**WB-301-BOT**	**SOIL**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/15/24	
P4397-04	**WB-301-SW**	**WATER**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	
P4397-06	**WB-301-BOT**	**TCLP**			**10/10/24**			**10/11/24**
			TCLP Herbicide	8151A		10/24/24	10/24/24	
			TCLP Pesticide	8081B		10/22/24	10/24/24	

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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	63.3
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
10/14/24 08:32	10/14/24 19:07	PB164109

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.88	J	1	0.60	1.58	mg/kg	FC067434.D
Aliphatic C12-C16	Aliphatic C12-C16	3.76		1	0.38	1.05	mg/kg	FC067434.D
Aliphatic C16-C21	Aliphatic C16-C21	5.84		1	0.47	1.58	mg/kg	FC067434.D
Aliphatic C21-C28	Aliphatic C21-C28	9.56		1	1.26	2.10	mg/kg	FC067434.D
Aliphatic C28-C40	Aliphatic C28-C40	5.43		1	2.84	3.15	mg/kg	FC067434.D
Aromatic C10-C12	Aromatic C10-C12	1.78		1	0.47	1.05	mg/kg	FD048521.D
Aromatic C12-C16	Aromatic C12-C16	10.5		1	0.54	1.58	mg/kg	FD048521.D
Aromatic C16-C21	Aromatic C16-C21	20.8		1	1.51	2.63	mg/kg	FD048521.D
Aromatic C21-C36	Aromatic C21-C36	19.0		1	3.15	4.20	mg/kg	FD048521.D
Total AliphaticEPH	Total AliphaticEPH	25.5			5.55	9.46	mg/kg	
Total AromaticEPH	Total AromaticEPH	52.1			5.67	9.46	mg/kg	
Total EPH	Total EPH	77.5			11.2	18.9	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

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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	63.3
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
FC067434.D	1	10/14/24	10/14/24	PB164109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.88	J	0.60	1.58	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	3.76		0.38	1.05	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	5.84		0.47	1.58	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	9.56		1.26	2.10	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.43		2.84	3.15	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:	P4397-01	Acq On:	14 Oct 2024 19:07
Client Sample ID:	WB-301-TOP	Operator:	YP/AJ
Data file:	FC067434.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	3.175	6.457	1068467	8.324	300	ug/ml
Aliphatic C12-C16	6.458	9.850	4685890	35.782	200	ug/ml
Aliphatic C16-C21	9.851	13.209	7306537	55.573	300	ug/ml
Aliphatic C21-C28	13.210	16.865	11537622	90.974	400	ug/ml
Aliphatic C28-C40	16.866	21.722	5436641	51.671	600	ug/ml
Aliphatic EPH	3.175	21.722	30035157	242.324		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.941	12.941	3402529	30.06		ug/ml
Aliphatic C9-C28	3.175	16.865	24598516	190.653	1200	ug/ml

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	63.3
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
FD048521.D	1	10/14/24	10/15/24	PB164109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	1.78		0.47	1.05	mg/kg
Aromatic C12-C16	Aromatic C12-C16	10.5		0.54	1.58	mg/kg
Aromatic C16-C21	Aromatic C16-C21	20.8		1.51	2.63	mg/kg
Aromatic C21-C36	Aromatic C21-C36	19.0		3.15	4.20	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	49.0		40 - 140	98%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.5		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	23.4		40 - 140	47%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4397-01	Acq On:	15 Oct 2024 11:10
Client Sample ID:	WB-301-TOP	Operator:	YP/AJ
Data file:	FD048521.D	Misc:	
Instrument:	FID_D	ALS Vial:	86
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.099	5.817	3070502	16.966	200	ug/ml
Aromatic C12-C16	5.818	8.424	18955424	99.768	300	ug/ml
Aromatic C16-C21	8.425	12.687	35415835	198.155	500	ug/ml
Aromatic C21-C36	12.688	18.094	29960397	181.182	800	ug/ml
Aromatic EPH	4.099	18.094	87402158	496.07		ug/ml
2-Bromonaphthalene (SURR)	7.377	7.377	8119618	49.04		ug/ml
2-Flurobiphenyl (SURR)	8.227	8.227	5233558	50.47		ug/ml
ortho-Terphenyl (SURR)	11.264	11.264	4301929	23.38		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	76
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
10/14/24 08:32	10/14/24 19:44	PB164109

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.50	U	1	0.50	1.31	mg/kg	FC067435.D
Aliphatic C12-C16	Aliphatic C12-C16	0.32	U	1	0.32	0.88	mg/kg	FC067435.D
Aliphatic C16-C21	Aliphatic C16-C21	0.39	U	1	0.39	1.31	mg/kg	FC067435.D
Aliphatic C21-C28	Aliphatic C21-C28	1.05	U	1	1.05	1.75	mg/kg	FC067435.D
Aliphatic C28-C40	Aliphatic C28-C40	2.36	U	1	2.36	2.63	mg/kg	FC067435.D
Aromatic C10-C12	Aromatic C10-C12	0.39	U	1	0.39	0.88	mg/kg	FD048510.D
Aromatic C12-C16	Aromatic C12-C16	0.51	J	1	0.45	1.31	mg/kg	FD048510.D
Aromatic C16-C21	Aromatic C16-C21	1.89	J	1	1.26	2.19	mg/kg	FD048510.D
Aromatic C21-C36	Aromatic C21-C36	2.63	U	1	2.63	3.50	mg/kg	FD048510.D
Total AliphaticEPH	Total AliphaticEPH	4.62	U		4.62	7.88	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.73	U		4.73	7.88	mg/kg	
Total EPH	Total EPH	9.35	U		9.35	15.8	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	76
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
FC067435.D	1	10/14/24	10/14/24	PB164109

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.50	U	0.50	1.31	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.32	U	0.32	0.88	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.39	U	0.39	1.31	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.05	U	1.05	1.75	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.36	U	2.36	2.63	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		37.5		40 - 140	75%	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:	P4397-02	Acq On:	14 Oct 2024 19:44
Client Sample ID:	WB-301-BOT	Operator:	YP/AJ
Data file:	FC067435.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	3.175	6.457	89934	0.701	300	ug/ml
Aliphatic C12-C16	6.458	9.850	400036	3.055	200	ug/ml
Aliphatic C16-C21	9.851	13.209	456881	3.475	300	ug/ml
Aliphatic C21-C28	13.210	16.865	43326	0.342	400	ug/ml
Aliphatic C28-C40	16.866	21.722	0	0	600	ug/ml
Aliphatic EPH	3.175	21.722	990177	7.572		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.940	12.940	4244377	37.5		ug/ml
Aliphatic C9-C28	3.175	16.865	990177	7.573	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	76
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
FD048510.D	1	10/14/24	10/15/24	PB164109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.39	U	0.39	0.88	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.51	J	0.45	1.31	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.89	J	1.26	2.19	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.63	U	2.63	3.50	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	39.5		40 - 140	79%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	42.5		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.3		40 - 140	49%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4397-02	Acq On:	15 Oct 2024 04:22
Client Sample ID:	WB-301-BOT	Operator:	YP/AJ
Data file:	FD048510.D	Misc:	
Instrument:	FID_D	ALS Vial:	77
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.099	5.817	260104	1.437	200	ug/ml
Aromatic C12-C16	5.818	8.424	1095525	5.766	300	ug/ml
Aromatic C16-C21	8.425	12.687	3861500	21.605	500	ug/ml
Aromatic C21-C36	12.688	18.094	2496884	15.1	800	ug/ml
Aromatic EPH	4.099	18.094	7714013	43.908		ug/ml
2-Bromonaphthalene (SURR)	7.374	7.374	6535426	39.47		ug/ml
2-Flurobiphenyl (SURR)	8.224	8.224	4406588	42.49		ug/ml
ortho-Terphenyl (SURR)	11.261	11.261	4470809	24.3		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: P4397 SAS No.: P4397 SDG No.: P4397

Run Number: FC101424AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
WB-301-TOP	60			0
WB-301-BOT	75			0
WB-301-BOTMS	66			0
WB-301-BOTMSD	68			0
PB164109BL	77			0
PB164109BS	69			0
PB164109BSD	72			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.: P4397 SAS No.: P4397 SDG No.: P4397

Run Number: FD101424AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
WB-301-TOP	98	101	47	0
WB-301-BOT	79	85	49	0
WB-301-BOTMS	94	99	60	0
WB-301-BOTMSD	88	92	56	0
PB164109BL	105	101	94	0
PB164109BS	96	101	84	0
PB164109BSD	96	101	84	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:** P4397 **SAS No :** P4397 **SDG No:** P4397

Sample No : P4397-02MS **Datafile:** FC067437.D

Client ID : WB-301-BOTMS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	13.1	0	8.40	64		(40-140)
Aliphatic C12-C16	8.8	0	7.59	87		(40-140)
Aliphatic C16-C21	13.1	0	11.5	88		(40-140)
Aliphatic C21-C28	17.5	0	14.5	83		(40-140)
Aliphatic C28-C40	26.3	0	25.9	99		(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:** P4397 **SAS No :** P4397 **SDG No:** P4397

Sample No : P4397-02MSD **Datafile:** FC067438.D

Client ID : WB-301-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	13.1	0	8.43	64		0.47 |	(40-140)	25
Aliphatic C12-C16	8.8	0	7.63	87		0.58 |	(40-140)	25
Aliphatic C16-C21	13.1	0	11.6	88		0.91 |	(40-140)	25
Aliphatic C21-C28	17.5	0	14.7	84		1.32 |	(40-140)	25
Aliphatic C28-C40	26.3	0	26.2	100		1.11 |	(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:** P4397 **SAS No :** P4397 **SDG No:** P4397

Sample No : P4397-02MS **Datafile:** FD048512.D

Client ID : WB-301-BOTMS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	8.8	0	6.16	70		(40-140)
Aromatic C12-C16	13.1	0.51	10.6	77		(40-140)
Aromatic C16-C21	21.9	1.89	21.3	89		(40-140)
Aromatic C21-C36	35.0	0	31.2	89		(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:** P4397 **SAS No :** P4397 **SDG No:** P4397

Sample No : P4397-02MSD **Datafile:** FD048513.D

Client ID : WB-301-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	8.8	0	5.71	65		7.53 |	(40-140)	25
Aromatic C12-C16	13.1	0.51	9.79	71		8.27 |	(40-140)	25
Aromatic C16-C21	21.9	1.89	19.8	82		7.98 |	(40-140)	25
Aromatic C21-C36	35.0	0	28.9	82		7.58 |	(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:** P4397 **SAS No :** P4397 **SDG No:** P4397

Sample No : PB164109BS **Datafile:** FC067431.D

Client ID : PB164109BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	5.93	59		(40-140)
Aliphatic C12-C16	6.7	5.43	82		(40-140)
Aliphatic C16-C21	10	8.45	85		(40-140)
Aliphatic C21-C28	13.3	11.1	83		(40-140)
Aliphatic C28-C40	20.0	19.5	98		(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:** P4397 **SAS No :** P4397 **SDG No:** P4397

Sample No : PB164109BSD **Datafile:** FC067432.D

Client ID : PB164109BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD | QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	5.88	59		0.747| (40-140)	50
Aliphatic C12-C16	6.7	5.36	80		1.3| (40-140)	50
Aliphatic C16-C21	10	8.33	83		1.5| (40-140)	50
Aliphatic C21-C28	13.3	10.9	82		1.8| (40-140)	50
Aliphatic C28-C40	20.0	19.5	98		0.0025\(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:** P4397 **SAS No :** P4397 **SDG No:** P4397

Sample No : PB164109BS **Datafile:** FD048506.D

Client ID : PB164109BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	4.66	70		(40-140)
Aromatic C12-C16	10	7.77	78		(40-140)
Aromatic C16-C21	16.7	15.3	92		(40-140)
Aromatic C21-C36	26.6	23.0	86		(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:** P4397 **SAS No :** P4397 **SDG No:** P4397

Sample No : PB164109BSD **Datafile:** FD048507.D

Client ID : PB164109BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD | QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	4.67	70		0.31| (40-140)	50
Aromatic C12-C16	10	7.77	78		0.0286(40-140)	50
Aromatic C16-C21	16.7	15.3	92		0.0089(40-140)	50
Aromatic C21-C36	26.6	23.2	87		0.9| (40-140)	50

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB164109BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Instrument ID: FID_C Lab Sample ID: PB164109BL

Matrix: (soil/water) Solid Date Extracted: 10/14/2024 8:32:00

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164109BS	PB164109BS
WB-301-BOTMS	P4397-02MS
WB-301-BOTMSD	P4397-02MSD
PB164109BSD	PB164109BSD
WB-301-TOP	P4397-01
WB-301-BOT	P4397-02

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:	PB164109BL	SDG No.:	P4397
Lab Sample ID:	PB164109BL	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
10/14/24 08:32	10/14/24 16:38	PB164109

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	FC067430.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067430.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067430.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067430.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067430.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048505.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048505.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048505.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.67	mg/kg	FD048505.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.01	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:	PB164109BL	SDG No.:	P4397
Lab Sample ID:	PB164109BL	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
FC067430.D	1	10/14/24	10/14/24	PB164109

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)		38.7		40 - 140	77%	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:	PB164109BL	Acq On:	14 Oct 2024 16:38
Client Sample ID:	PB164109BL	Operator:	YP/AJ
Data file:	FC067430.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.175	6.457	0	0	300	ug/ml
Aliphatic C12-C16	6.458	9.850	0	0	200	ug/ml
Aliphatic C16-C21	9.851	13.209	0	0	300	ug/ml
Aliphatic C21-C28	13.210	16.865	0	0	400	ug/ml
Aliphatic C28-C40	16.866	21.722	0	0	600	ug/ml
Aliphatic EPH	3.175	21.722	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.941	12.941	4378021	38.68		ug/ml
Aliphatic C9-C28	3.175	16.865	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:	PB164109BL	SDG No.:	P4397
Lab Sample ID:	PB164109BL	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
FD048505.D	1	10/14/24	10/15/24	PB164109

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	2.67	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		52.4		40 - 140	105%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		50.6		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		47.0		40 - 140	94%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164109BL	Acq On:	15 Oct 2024 00:02
Client Sample ID:	PB164109BL	Operator:	YP/AJ
Data file:	FD048505.D	Misc:	
Instrument:	FID_D	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.099	5.817	0	0	200	ug/ml
Aromatic C12-C16	5.818	8.424	0	0	300	ug/ml
Aromatic C16-C21	8.425	12.687	0	0	500	ug/ml
Aromatic C21-C36	12.688	18.094	0	0	800	ug/ml
Aromatic EPH	4.099	18.094	0	0		ug/ml
ortho-Terphenyl (SURR)	11.267	11.267	8651846	47.02		ug/ml
2-Bromonaphthalene (SURR)	7.379	7.379	8673557	52.39		ug/ml
2-Flurobiphenyl (SURR)	8.228	8.228	5252190	50.65		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:	PB164109BS	SDG No.:	P4397
Lab Sample ID:	PB164109BS	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
10/14/24 08:32	10/14/24 17:15	PB164109

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.93		1	0.38	1.00	mg/kg	FC067431.D
Aliphatic C12-C16	Aliphatic C12-C16	5.43		1	0.24	0.67	mg/kg	FC067431.D
Aliphatic C16-C21	Aliphatic C16-C21	8.45		1	0.30	1.00	mg/kg	FC067431.D
Aliphatic C21-C28	Aliphatic C21-C28	11.1		1	0.80	1.33	mg/kg	FC067431.D
Aliphatic C28-C40	Aliphatic C28-C40	19.5		1	1.80	2.00	mg/kg	FC067431.D
Aromatic C10-C12	Aromatic C10-C12	4.66		1	0.30	0.67	mg/kg	FD048506.D
Aromatic C12-C16	Aromatic C12-C16	7.77		1	0.34	1.00	mg/kg	FD048506.D
Aromatic C16-C21	Aromatic C16-C21	15.3		1	0.96	1.67	mg/kg	FD048506.D
Aromatic C21-C36	Aromatic C21-C36	23.0		1	2.00	2.66	mg/kg	FD048506.D
Total AliphaticEPH	Total AliphaticEPH	50.4			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	50.7			3.60	6.00	mg/kg	
Total EPH	Total EPH	101			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:	PB164109BS	SDG No.:	P4397
Lab Sample ID:	PB164109BS	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
FC067431.D	1	10/14/24	10/14/24	PB164109

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.93		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		5.43		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		8.45		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		11.1		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		19.5		1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		34.6		40 - 140	69%	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:	PB164109BS	Acq On:	14 Oct 2024 17:15
Client Sample ID:	PB164109BS	Operator:	YP/AJ
Data file:	FC067431.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.175	6.457	11425952	89.019	300	ug/ml
Aliphatic C12-C16	6.458	9.850	10673371	81.502	200	ug/ml
Aliphatic C16-C21	9.851	13.209	16672534	126.81	300	ug/ml
Aliphatic C21-C28	13.210	16.865	21065352	166.1	400	ug/ml
Aliphatic C28-C40	16.866	21.722	30737201	292.135	600	ug/ml
Aliphatic EPH	3.175	21.722	90574410	755.566		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.941	12.941	3920928	34.64		ug/ml
Aliphatic C9-C28	3.175	16.865	59837209	463.431	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:	PB164109BS	SDG No.:	P4397
Lab Sample ID:	PB164109BS	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
FD048506.D	1	10/14/24	10/15/24	PB164109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.66		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.77		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	15.3		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	23.0		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.8		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.3		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.8		40 - 140	84%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164109BS	Acq On:	15 Oct 2024 00:39
Client Sample ID:	PB164109BS	Operator:	YP/AJ
Data file:	FD048506.D	Misc:	
Instrument:	FID_D	ALS Vial:	73
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.099	5.817	12651542	69.904	200	ug/ml
Aromatic C12-C16	5.818	8.424	22172501	116.7	300	ug/ml
Aromatic C16-C21	8.425	12.687	40972758	229.246	500	ug/ml
Aromatic C21-C36	12.688	18.094	57206908	345.952	800	ug/ml
Aromatic EPH	4.099	18.094	133003709	761.802		ug/ml
ortho-Terphenyl (SURR)	11.267	11.267	7694917	41.82		ug/ml
2-Bromonaphthalene (SURR)	7.378	7.378	7909909	47.77		ug/ml
2-Flurobiphenyl (SURR)	8.229	8.229	5220465	50.34		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:	PB164109BSD	SDG No.:	P4397
Lab Sample ID:	PB164109BSD	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
10/14/24 08:32	10/14/24 17:53	PB164109

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.88		1	0.38	1.00	mg/kg	FC067432.D
Aliphatic C12-C16	Aliphatic C12-C16	5.36		1	0.24	0.67	mg/kg	FC067432.D
Aliphatic C16-C21	Aliphatic C16-C21	8.33		1	0.30	1.00	mg/kg	FC067432.D
Aliphatic C21-C28	Aliphatic C21-C28	10.9		1	0.80	1.33	mg/kg	FC067432.D
Aliphatic C28-C40	Aliphatic C28-C40	19.5		1	1.80	2.00	mg/kg	FC067432.D
Aromatic C10-C12	Aromatic C10-C12	4.67		1	0.30	0.67	mg/kg	FD048507.D
Aromatic C12-C16	Aromatic C12-C16	7.77		1	0.34	1.00	mg/kg	FD048507.D
Aromatic C16-C21	Aromatic C16-C21	15.3		1	0.96	1.67	mg/kg	FD048507.D
Aromatic C21-C36	Aromatic C21-C36	23.2		1	2.00	2.66	mg/kg	FD048507.D
Total AliphaticEPH	Total AliphaticEPH	50.0			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	50.9			3.60	6.00	mg/kg	
Total EPH	Total EPH	101			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:	PB164109BSD	SDG No.:	P4397
Lab Sample ID:	PB164109BSD	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
FC067432.D	1	10/14/24	10/14/24	PB164109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.88		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.36		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.33		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.9		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.5		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.1		40 - 140	72%	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:	PB164109BSD	Acq On:	14 Oct 2024 17:53
Client Sample ID:	PB164109BSD	Operator:	YP/AJ
Data file:	FC067432.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.175	6.457	11332325	88.289	300	ug/ml
Aliphatic C12-C16	6.458	9.850	10537887	80.468	200	ug/ml
Aliphatic C16-C21	9.851	13.209	16438137	125.028	300	ug/ml
Aliphatic C21-C28	13.210	16.865	20833073	164.268	400	ug/ml
Aliphatic C28-C40	16.866	21.722	30731207	292.078	600	ug/ml
Aliphatic EPH	3.175	21.722	89872629	750.13		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.941	12.941	4085608	36.09		ug/ml
Aliphatic C9-C28	3.175	16.865	59141422	458.053	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:	PB164109BSD		SDG No.:	P4397	
Lab Sample ID:	PB164109BSD		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
FD048507.D	1	10/14/24	10/15/24	PB164109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.67		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.77		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	15.3		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	23.2		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.9		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.4		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.1		40 - 140	84%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164109BSD	Acq On:	15 Oct 2024 01:17
Client Sample ID:	PB164109BSD	Operator:	YP/AJ
Data file:	FD048507.D	Misc:	
Instrument:	FID_D	ALS Vial:	74
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.099	5.817	12686302	70.096	200	ug/ml
Aromatic C12-C16	5.818	8.424	22161971	116.645	300	ug/ml
Aromatic C16-C21	8.425	12.687	41157785	230.281	500	ug/ml
Aromatic C21-C36	12.688	18.094	57627675	348.497	800	ug/ml
Aromatic EPH	4.099	18.094	133633733	765.519		ug/ml
ortho-Terphenyl (SURR)	11.266	11.266	7750803	42.12		ug/ml
2-Bromonaphthalene (SURR)	7.378	7.378	7923978	47.86		ug/ml
2-Flurobiphenyl (SURR)	8.229	8.229	5224281	50.38		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-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-02MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	76
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/14/24 08:32	10/14/24 20:58	PB164109

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.40		1	0.50	1.31	mg/kg	FC067437.D
Aliphatic C12-C16	Aliphatic C12-C16	7.59		1	0.32	0.88	mg/kg	FC067437.D
Aliphatic C16-C21	Aliphatic C16-C21	11.5		1	0.39	1.31	mg/kg	FC067437.D
Aliphatic C21-C28	Aliphatic C21-C28	14.5		1	1.05	1.75	mg/kg	FC067437.D
Aliphatic C28-C40	Aliphatic C28-C40	25.9		1	2.37	2.63	mg/kg	FC067437.D
Aromatic C10-C12	Aromatic C10-C12	6.16		1	0.39	0.88	mg/kg	FD048512.D
Aromatic C12-C16	Aromatic C12-C16	10.6		1	0.45	1.31	mg/kg	FD048512.D
Aromatic C16-C21	Aromatic C16-C21	21.3		1	1.26	2.19	mg/kg	FD048512.D
Aromatic C21-C36	Aromatic C21-C36	31.2		1	2.63	3.50	mg/kg	FD048512.D
Total AliphaticEPH	Total AliphaticEPH	67.9			4.63	7.88	mg/kg	
Total AromaticEPH	Total AromaticEPH	69.3			4.73	7.88	mg/kg	
Total EPH	Total EPH	137			9.36	15.8	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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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-02MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	76
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067437.D	1	10/14/24	10/14/24	PB164109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.40		0.50	1.31	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.59		0.32	0.88	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	11.5		0.39	1.31	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	14.5		1.05	1.75	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	25.9		2.37	2.63	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.0		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:	P4397-02MS	Acq On:	14 Oct 2024 20:58
Client Sample ID:	WB-301-BOTMS	Operator:	YP/AJ
Data file:	FC067437.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.175	6.457	12313105	95.93	300	ug/ml
Aliphatic C12-C16	6.458	9.850	11348872	86.661	200	ug/ml
Aliphatic C16-C21	9.851	13.209	17233867	131.08	300	ug/ml
Aliphatic C21-C28	13.210	16.865	21046034	165.947	400	ug/ml
Aliphatic C28-C40	16.866	21.722	31111306	295.69	600	ug/ml
Aliphatic EPH	3.175	21.722	93053184	775.308		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.940	12.940	3732729	32.98		ug/ml
Aliphatic C9-C28	3.175	16.865	61941878	479.618	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-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-02MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	76
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048512.D	1	10/14/24	10/15/24	PB164109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.16		0.39	0.88	mg/kg
Aromatic C12-C16	Aromatic C12-C16	10.6		0.45	1.31	mg/kg
Aromatic C16-C21	Aromatic C16-C21	21.3		1.26	2.19	mg/kg
Aromatic C21-C36	Aromatic C21-C36	31.2		2.63	3.50	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.0		40 - 140	94%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	49.4		40 - 140	99%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.0		40 - 140	60%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4397-02MS	Acq On:	15 Oct 2024 05:35
Client Sample ID:	WB-301-BOTMS	Operator:	YP/AJ
Data file:	FD048512.D	Misc:	
Instrument:	FID_D	ALS Vial:	79
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.099	5.817	12720619	70.286	200	ug/ml
Aromatic C12-C16	5.818	8.424	22956118	120.825	300	ug/ml
Aromatic C16-C21	8.425	12.687	43396413	242.807	500	ug/ml
Aromatic C21-C36	12.688	18.094	58837933	355.816	800	ug/ml
Aromatic EPH	4.099	18.094	137911083	789.733		ug/ml
ortho-Terphenyl (SURR)	11.264	11.264	5525403	30.03		ug/ml
2-Bromonaphthalene (SURR)	7.378	7.378	7777959	46.98		ug/ml
2-Flurobiphenyl (SURR)	8.228	8.228	5123618	49.41		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-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-02MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	76
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/14/24 08:32	10/14/24 21:35	PB164109

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.43		1	0.50	1.31	mg/kg	FC067438.D
Aliphatic C12-C16	Aliphatic C12-C16	7.63		1	0.32	0.88	mg/kg	FC067438.D
Aliphatic C16-C21	Aliphatic C16-C21	11.6		1	0.39	1.31	mg/kg	FC067438.D
Aliphatic C21-C28	Aliphatic C21-C28	14.7		1	1.05	1.75	mg/kg	FC067438.D
Aliphatic C28-C40	Aliphatic C28-C40	26.2		1	2.36	2.63	mg/kg	FC067438.D
Aromatic C10-C12	Aromatic C10-C12	5.71		1	0.39	0.88	mg/kg	FD048513.D
Aromatic C12-C16	Aromatic C12-C16	9.79		1	0.45	1.31	mg/kg	FD048513.D
Aromatic C16-C21	Aromatic C16-C21	19.8		1	1.26	2.19	mg/kg	FD048513.D
Aromatic C21-C36	Aromatic C21-C36	28.9		1	2.63	3.50	mg/kg	FD048513.D
Total AliphaticEPH	Total AliphaticEPH	68.6			4.62	7.88	mg/kg	
Total AromaticEPH	Total AromaticEPH	64.2			4.73	7.88	mg/kg	
Total EPH	Total EPH	133			9.35	15.8	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-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-02MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	76
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067438.D	1	10/14/24	10/14/24	PB164109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.43		0.50	1.31	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.63		0.32	0.88	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	11.6		0.39	1.31	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	14.7		1.05	1.75	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.2		2.36	2.63	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.1		40 - 140	68%	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:	P4397-02MSD	Acq On:	14 Oct 2024 21:35
Client Sample ID:	WB-301-BOTMSD	Operator:	YP/AJ
Data file:	FC067438.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	3.175	6.457	12354233	96.251	300	ug/ml
Aliphatic C12-C16	6.458	9.850	11406678	87.102	200	ug/ml
Aliphatic C16-C21	9.851	13.209	17382375	132.209	300	ug/ml
Aliphatic C21-C28	13.210	16.865	21224719	167.356	400	ug/ml
Aliphatic C28-C40	16.866	21.722	31527698	299.648	600	ug/ml
Aliphatic EPH	3.175	21.722	93895703	782.566		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.940	12.940	3859946	34.1		ug/ml
Aliphatic C9-C28	3.175	16.865	62368005	482.918	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-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-02MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	76
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048513.D	1	10/14/24	10/15/24	PB164109

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.71		0.39	0.88	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.79		0.45	1.31	mg/kg
Aromatic C16-C21	Aromatic C16-C21	19.8		1.26	2.19	mg/kg
Aromatic C21-C36	Aromatic C21-C36	28.9		2.63	3.50	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	43.8		40 - 140	88%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.0		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.0		40 - 140	56%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4397-02MSD	Acq On:	15 Oct 2024 06:12
Client Sample ID:	WB-301-BOTMSD	Operator:	YP/AJ
Data file:	FD048513.D	Misc:	
Instrument:	FID_D	ALS Vial:	80
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.099	5.817	11806948	65.237	200	ug/ml
Aromatic C12-C16	5.818	8.424	21236976	111.776	300	ug/ml
Aromatic C16-C21	8.425	12.687	40472826	226.449	500	ug/ml
Aromatic C21-C36	12.688	18.094	54588575	330.118	800	ug/ml
Aromatic EPH	4.099	18.094	128105325	733.581		ug/ml
2-Bromonaphthalene (SURR)	7.377	7.377	7244608	43.76		ug/ml
2-Flurobiphenyl (SURR)	8.228	8.228	4767531	45.97		ug/ml
ortho-Terphenyl (SURR)	11.263	11.263	5147288	27.97		ug/ml

CALIBRATION SUMMARY

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Inital Calibration Report for SequenceID : FC100224AL

AreaCount

Parameter Range	FC067312.D	FC067313.D	FC067314.D	FC067315.D	FC067316.D	
Aliphatic C9-C12	36157754.000	18468554.000	7796622.000	3912320.000	2066528.000	
Aliphatic C12-C16	24671572.000	12642565.000	5319639.000	2676246.000	1382016.000	
Aliphatic C16-C21	36539622.000	18852548.000	8005327.000	4100822.000	2096729.000	
Aliphatic C21-C28	47235980.000	24590379.000	10215208.000	5219473.000	2697991.000	
Aliphatic C28-C40	57341685.000	29822245.000	12674884.000	6440179.000	3544258.000	
Aliphatic EPH	201946613.000	104376291.000	44011680.000	22349040.000	11787522.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	128354.4879996	5.284				
Aliphatic C12-C16	130957.677	4.567				
Aliphatic C16-C21	131476.1019996	5.732				
Aliphatic C21-C28	126823.664	5.15				
Aliphatic C28-C40	105215.848333	8.211				
Aliphatic EPH	121110.9372216	6.036				

Concentration

Parameter Range	FC067312.D	FC067313.D	FC067314.D	FC067315.D	FC067316.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	FC067312.D	FC067313.D	FC067314.D	FC067315.D	FC067316.D	
Aliphatic C9-C12	120525.846666	123123.693333	129943.700000	130410.666666	137768.533333	
Aliphatic C12-C16	123357.860000	126425.650000	132990.975000	133812.300000	138201.600000	
Aliphatic C16-C21	121798.740000	125683.653333	133422.116666	136694.066666	139781.933333	

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Inital Calibration Report for SequenceID : FC100224AL

Aliphatic C21-C28	118089.950000	122951.895000	127690.100000	130486.825000	134899.550000	
Aliphatic C28-C40	95569.475000	99407.483333	105624.033333	107336.316666	118141.933333	
Aliphatic EPH	112192.562777	115973.656666	122254.666666	124161.333333	130972.466666	

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Inital Calibration Report for SequenceID : FD093024AR

AreaCount

Parameter Range	FD048398.D	FD048399.D	FD048400.D	FD048401.D	FD048402.D	
Aromatic C10-C12	34648059.000	18252378.000	7283031.000	3571721.000	1884983.000	
Aromatic C12-C16	52772389.000	27987173.000	11349711.000	5750614.000	3099577.000	
Aromatic C16-C21	67557629.000	35880273.000	14451391.000	7136049.000	3726042.000	
Aromatic C21-C36	141518244.000	74756685.000	30035782.000	14897193.000	7697046.000	
Aromatic EPH	296496321.000	156876509.000	63119915.000	31355577.000	16407648.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	180984.84	3.098				
Aromatic C12-C16	189995.313333	5.829				
Aromatic C16-C21	178728.23	3.52				
Aromatic C21-C36	165360.7497772	3.04				
Aromatic EPH	174173.0715554	3.596				

Concentration

Parameter Range	FD048398.D	FD048399.D	FD048400.D	FD048401.D	FD048402.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	FD048398.D	FD048399.D	FD048400.D	FD048401.D	FD048402.D	
Aromatic C10-C12	173240.295000	182523.780000	182075.775000	178586.050000	188498.300000	
Aromatic C12-C16	175907.963333	186581.153333	189161.850000	191687.133333	206638.466666	
Aromatic C16-C21	168894.072500	179401.365000	180642.387500	178401.225000	186302.100000	
Aromatic C21-C36	157242.493333	166125.966666	166865.455555	165524.366666	171045.466666	
Aromatic EPH	164720.178333	174307.232222	175333.097222	174197.650000	182307.200000	

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Continuing Calibration Report for SequenceID : FC101424AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067429.D**						
Aliphatic C9-C12	8508762.000	60.000	3.175	6.457	141812.700	128354.488	-10.485
Aliphatic C12-C16	5652181.000	40.000	6.458	9.850	141304.525	130957.677	-7.901
Aliphatic C16-C21	8170666.000	60.000	9.851	13.209	136177.767	131476.102	-3.576
Aliphatic C21-C28	10286818.000	80.000	13.210	16.865	128585.225	126823.664	-1.389
Aliphatic C28-C40	13123649.000	120.000	16.866	21.722	109363.742	105215.848	-3.942
Aliphatic EPH	45742076.000	360.000	3.175	21.722	127061.322	121110.937	-4.913

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	14 Oct 2024 13:32
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067429.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.175	6.457	8508762.000	60.000	ug/ml
Aliphatic C12-C16	6.458	9.850	5652181.000	40.000	ug/ml
Aliphatic C16-C21	9.851	13.209	8170666.000	60.000	ug/ml
Aliphatic C21-C28	13.210	16.865	10286818.000	80.000	ug/ml
Aliphatic C28-C40	16.866	21.722	13123649.000	120.000	ug/ml
Aliphatic EPH	3.175	21.722	45742076.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC101424AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067440.D**						
Aliphatic C9-C12	8663443.000	60.000	3.175	6.457	144390.717	128354.488	-12.494
Aliphatic C12-C16	5701770.000	40.000	6.458	9.850	142544.250	130957.677	-8.848
Aliphatic C16-C21	8254144.000	60.000	9.851	13.209	137569.067	131476.102	-4.634
Aliphatic C21-C28	10417464.000	80.000	13.210	16.865	130218.300	126823.664	-2.677
Aliphatic C28-C40	13488399.000	120.000	16.866	21.722	112403.325	105215.848	-6.831
Aliphatic EPH	46525220.000	360.000	3.175	21.722	129236.722	121110.937	-6.709

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	14 Oct 2024 22:48
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067440.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.175	6.457	8663443.000	60.000	ug/ml
Aliphatic C12-C16	6.458	9.850	5701770.000	40.000	ug/ml
Aliphatic C16-C21	9.851	13.209	8254144.000	60.000	ug/ml
Aliphatic C21-C28	13.210	16.865	10417464.000	80.000	ug/ml
Aliphatic C28-C40	16.866	21.722	13488399.000	120.000	ug/ml
Aliphatic EPH	3.175	21.722	46525220.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD101424AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048504.D**						
Aromatic C10-C12	7355966.000	40.000	4.099	5.817	183899.150	180984.840	-1.610
Aromatic C12-C16	11202398.000	60.000	5.818	8.424	186706.633	189995.313	1.731
Aromatic C16-C21	13872207.000	80.000	8.425	12.687	173402.588	178728.230	2.980
Aromatic C21-C36	29243252.000	180.000	12.688	18.094	162462.511	165360.750	1.753
Aromatic EPH	61673823.000	360.000	4.099	18.094	171316.175	174173.072	1.640

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	14 Oct 2024 22:48
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048504.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.099	5.817	7355966.000	40.000	ug/ml
Aromatic C12-C16	5.818	8.424	11202398.000	60.000	ug/ml
Aromatic C16-C21	8.425	12.687	13872207.000	80.000	ug/ml
Aromatic C21-C36	12.688	18.094	29243252.000	180.000	ug/ml
Aromatic EPH	4.099	18.094	61673823.000	360.000	ug/ml

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

Continuing Calibration Report for SequenceID : FD101424AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048515.D**						
Aromatic C10-C12	7503437.000	40.000	4.099	5.817	187585.925	180984.840	-3.647
Aromatic C12-C16	11393796.000	60.000	5.818	8.424	189896.600	189995.313	0.052
Aromatic C16-C21	14125711.000	80.000	8.425	12.687	176571.388	178728.230	1.207
Aromatic C21-C36	29284546.000	180.000	12.688	18.094	162691.922	165360.750	1.614
Aromatic EPH	62307490.000	360.000	4.099	18.094	173076.361	174173.072	0.630

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	15 Oct 2024 07:27
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048515.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.099	5.817	7503437.000	40.000	ug/ml
Aromatic C12-C16	5.818	8.424	11393796.000	60.000	ug/ml
Aromatic C16-C21	8.425	12.687	14125711.000	80.000	ug/ml
Aromatic C21-C36	12.688	18.094	29284546.000	180.000	ug/ml
Aromatic EPH	4.099	18.094	62307490.000	360.000	ug/ml

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067434.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 19:07
Operator : YP/AJ
Sample : P4397-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-301-TOP

Integration File: autoint1.e
Quant Time: Oct 15 04:32:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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...	12.941	3402529	30.059 ug/ml
Spiked Amount 50.000		Recovery =	60.12%
Target Compounds			

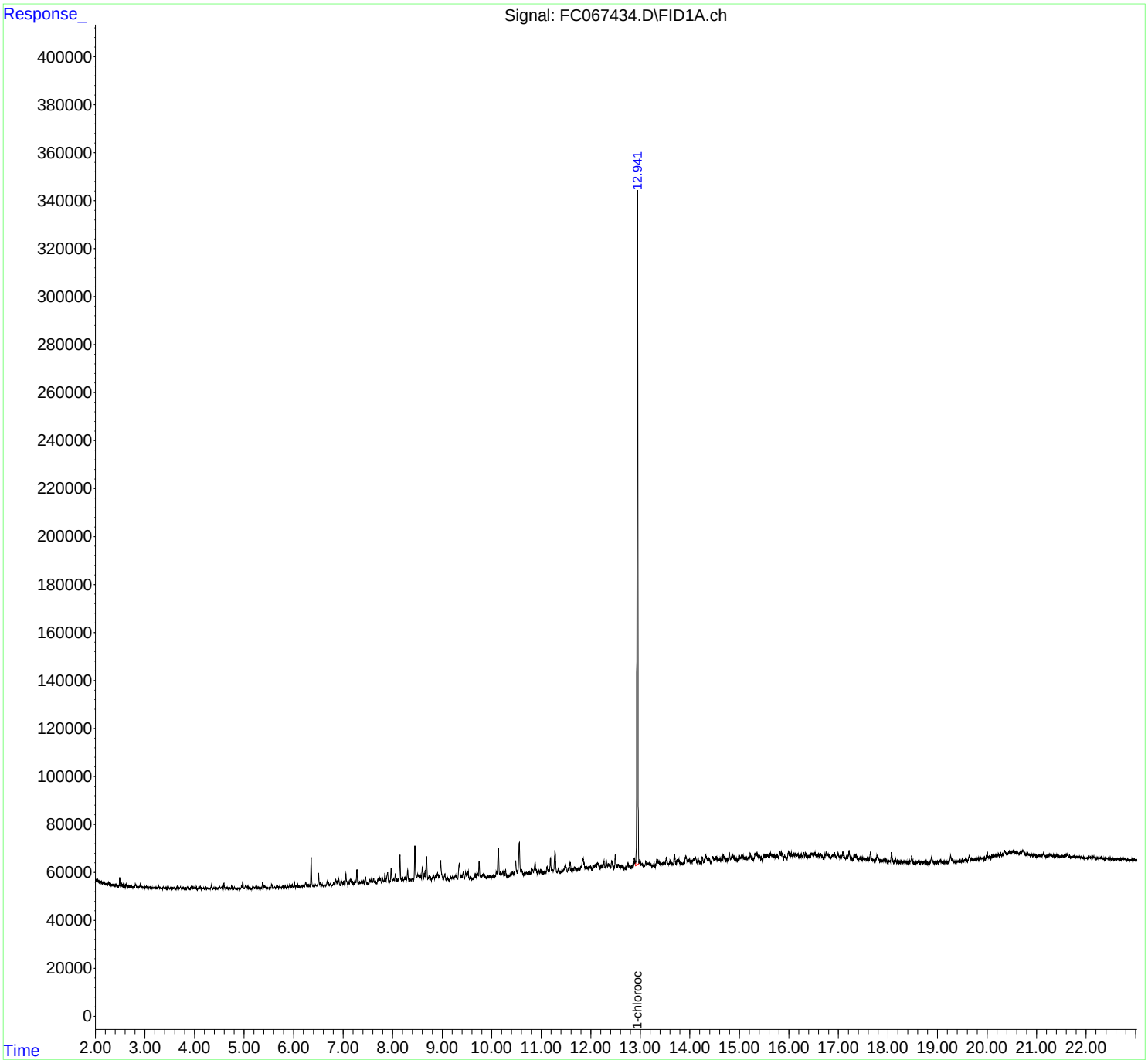
(f)=RT Delta > 1/2 Window (m)=manual int.

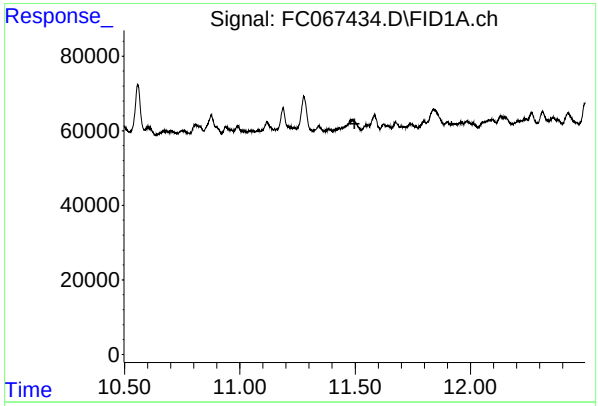
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067434.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 19:07
Operator : YP/AJ
Sample : P4397-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-301-TOP

Integration File: autoint1.e
Quant Time: Oct 15 04:32:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

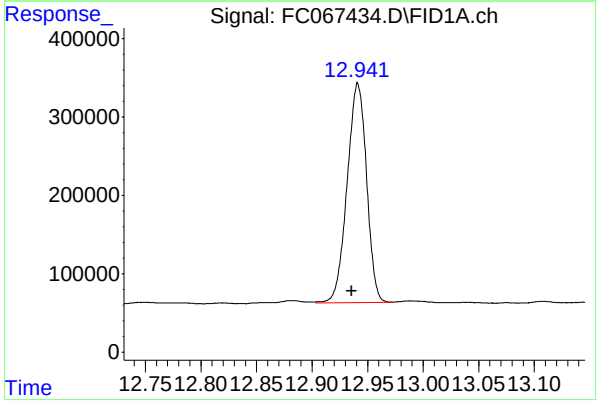




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.497 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-301-TOP



#12 1-chlorooctadecane (SURR)

R.T.: 12.941 min
Delta R.T.: 0.005 min
Response: 3402529
Conc: 30.06 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067434.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 19:07
Sample : P4397-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.355	BV	794	11603	0.32%	0.035%
2	3.373	3.355	3.388	PV	241	3016	0.08%	0.009%
3	3.398	3.388	3.411	VV	192	1902	0.05%	0.006%
4	3.420	3.411	3.438	VV	184	2121	0.06%	0.006%
5	3.478	3.438	3.521	VV	343	7150	0.20%	0.021%
6	3.547	3.521	3.565	PV	459	7520	0.21%	0.022%
7	3.575	3.565	3.584	VV	245	2051	0.06%	0.006%
8	3.601	3.584	3.628	VV	302	5217	0.15%	0.016%
9	3.647	3.628	3.669	VV	832	9633	0.27%	0.029%
10	3.679	3.669	3.689	VV	185	2004	0.06%	0.006%
11	3.718	3.689	3.754	VV	702	11254	0.31%	0.033%
12	3.767	3.754	3.798	VV	326	5744	0.16%	0.017%
13	3.813	3.798	3.832	VV	396	3677	0.10%	0.011%
14	3.858	3.832	3.906	VV	489	9465	0.26%	0.028%
15	3.941	3.906	3.955	PV	921	11063	0.31%	0.033%
16	3.970	3.955	3.994	VV	1115	12421	0.35%	0.037%
17	4.000	3.994	4.021	VV	288	3684	0.10%	0.011%
18	4.035	4.021	4.074	VV	727	8262	0.23%	0.025%
19	4.117	4.074	4.134	VV	867	13815	0.38%	0.041%
20	4.147	4.134	4.200	VV	464	10663	0.30%	0.032%
21	4.217	4.200	4.234	VV	814	8606	0.24%	0.026%
22	4.253	4.234	4.276	VV	369	6970	0.19%	0.021%
23	4.291	4.276	4.320	VV	297	6382	0.18%	0.019%
24	4.341	4.320	4.393	VV	1675	22873	0.64%	0.068%
25	4.408	4.393	4.423	VV	390	4269	0.12%	0.013%
26	4.442	4.423	4.468	VV	334	6672	0.19%	0.020%
27	4.508	4.468	4.524	VV	1051	18253	0.51%	0.054%
28	4.539	4.524	4.550	VV	554	7285	0.20%	0.022%
29	4.565	4.550	4.577	VV	1109	11297	0.31%	0.034%
30	4.594	4.577	4.611	VV	2433	24226	0.67%	0.072%
31	4.621	4.611	4.634	VV	611	6221	0.17%	0.018%
32	4.647	4.634	4.659	VV	495	5713	0.16%	0.017%
33	4.670	4.659	4.681	VV	493	4763	0.13%	0.014%
34	4.689	4.681	4.695	VV	317	2177	0.06%	0.006%
35	4.712	4.695	4.728	VV	535	6819	0.19%	0.020%
36	4.751	4.728	4.773	VV	894	12936	0.36%	0.038%

rteres

37	4.785	4.773	4.798	VV	365	4165	0.12%	0.012%
38	4.811	4.798	4.839	VV	563	7092	0.20%	0.021%
39	4.863	4.839	4.874	VV	357	3830	0.11%	0.011%
40	4.894	4.874	4.921	VV	459	6764	0.19%	0.020%
41	4.973	4.921	5.004	PV	3154	51949	1.44%	0.154%
42	5.028	5.004	5.045	VV	1244	18721	0.52%	0.056%
43	5.055	5.045	5.065	VV	693	6590	0.18%	0.020%
44	5.079	5.065	5.124	VV	1000	14698	0.41%	0.044%
45	5.144	5.124	5.154	VV	267	3474	0.10%	0.010%
46	5.176	5.154	5.187	VV	650	8227	0.23%	0.024%
47	5.199	5.187	5.218	VV	587	8631	0.24%	0.026%
48	5.233	5.218	5.248	VV	605	7336	0.20%	0.022%
49	5.265	5.248	5.280	VV	887	9462	0.26%	0.028%
50	5.292	5.280	5.310	VV	483	6997	0.19%	0.021%
51	5.320	5.310	5.332	VV	370	4126	0.11%	0.012%
52	5.376	5.332	5.407	VV	2747	44412	1.24%	0.132%
53	5.417	5.407	5.484	VV	1156	22501	0.63%	0.067%
54	5.501	5.484	5.513	VV	379	4873	0.14%	0.014%
55	5.558	5.513	5.594	VV	1886	34516	0.96%	0.103%
56	5.623	5.594	5.640	VV	521	10101	0.28%	0.030%
57	5.669	5.640	5.701	VV	1457	29736	0.83%	0.088%
58	5.721	5.701	5.734	VV	923	10199	0.28%	0.030%
59	5.743	5.734	5.755	VV	539	5229	0.15%	0.016%
60	5.784	5.755	5.809	VV	717	13568	0.38%	0.040%
61	5.829	5.809	5.849	PV	899	10648	0.30%	0.032%
62	5.881	5.849	5.903	VV	1057	19275	0.54%	0.057%
63	5.926	5.903	5.954	VV	2029	33385	0.93%	0.099%
64	5.972	5.954	5.993	VV	1622	20520	0.57%	0.061%
65	6.017	5.993	6.040	VV	2302	32058	0.89%	0.095%
66	6.076	6.040	6.092	VV	1532	27605	0.77%	0.082%
67	6.107	6.092	6.121	VV	692	10510	0.29%	0.031%
68	6.162	6.121	6.177	VV	1040	22402	0.62%	0.067%
69	6.192	6.177	6.217	VV	1075	16521	0.46%	0.049%
70	6.245	6.217	6.264	VV	2273	37296	1.04%	0.111%
71	6.283	6.264	6.301	VV	1073	19352	0.54%	0.058%
72	6.310	6.301	6.333	VV	974	15038	0.42%	0.045%
73	6.356	6.333	6.428	VV	12481	154008	4.28%	0.458%
74	6.445	6.428	6.459	VV	1094	14925	0.42%	0.044%
75	6.505	6.459	6.526	VV	5931	82641	2.30%	0.246%
76	6.543	6.526	6.563	VV	1837	27433	0.76%	0.082%
77	6.577	6.563	6.604	VV	1149	16868	0.47%	0.050%
78	6.621	6.604	6.654	VV	894	20904	0.58%	0.062%
79	6.677	6.654	6.701	VV	2182	36086	1.00%	0.107%
80	6.714	6.701	6.727	VV	1169	13135	0.37%	0.039%
81	6.752	6.727	6.771	VV	1030	21512	0.60%	0.064%
82	6.813	6.771	6.832	VV	1556	33466	0.93%	0.100%
83	6.852	6.832	6.865	VV	3028	39576	1.10%	0.118%
84	6.874	6.865	6.892	VV	2331	28163	0.78%	0.084%
85	6.914	6.892	6.940	VV	3178	48421	1.35%	0.144%
86	6.961	6.940	6.993	VV	2452	50682	1.41%	0.151%
87	7.014	6.993	7.034	VV	2192	31271	0.87%	0.093%
88	7.057	7.034	7.096	VV	5161	79543	2.21%	0.237%
89	7.112	7.096	7.124	VV	1634	19282	0.54%	0.057%

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90	7.155	7.124	7.173	VV	2674	59453	1.65%	0.177%
91	7.196	7.173	7.214	VV	1420	31808	0.88%	0.095%
92	7.244	7.214	7.258	VV	2238	41461	1.15%	0.123%
93	7.280	7.258	7.305	VV	6708	88120	2.45%	0.262%
94	7.331	7.305	7.354	VV	1407	34260	0.95%	0.102%
95	7.369	7.354	7.388	VV	1814	27709	0.77%	0.082%
96	7.401	7.388	7.424	VV	1618	31430	0.87%	0.093%
97	7.451	7.424	7.484	VV	3635	68512	1.91%	0.204%
98	7.491	7.484	7.517	VV	911	13659	0.38%	0.041%
99	7.539	7.517	7.552	VV	2086	28973	0.81%	0.086%
100	7.565	7.552	7.590	VV	2236	37027	1.03%	0.110%
101	7.616	7.590	7.633	VV	2888	48730	1.36%	0.145%
102	7.645	7.633	7.678	VV	1708	33633	0.94%	0.100%
103	7.706	7.678	7.720	VV	2571	41461	1.15%	0.123%
104	7.734	7.720	7.745	VV	2627	33598	0.93%	0.100%
105	7.757	7.745	7.778	VV	2750	35361	0.98%	0.105%
106	7.800	7.778	7.821	VV	2475	41032	1.14%	0.122%
107	7.845	7.821	7.866	VV	4764	73309	2.04%	0.218%
108	7.899	7.866	7.927	VV	4961	103503	2.88%	0.308%
109	7.970	7.927	7.997	VV	6596	112011	3.12%	0.333%
110	8.021	7.997	8.038	VV	2277	49291	1.37%	0.147%
111	8.057	8.038	8.084	VV	4408	74081	2.06%	0.220%
112	8.109	8.084	8.121	VV	1945	41080	1.14%	0.122%
113	8.149	8.121	8.178	VV	12101	168281	4.68%	0.500%
114	8.197	8.178	8.218	VV	2716	49648	1.38%	0.148%
115	8.244	8.218	8.278	VV	2397	70780	1.97%	0.210%
116	8.305	8.278	8.331	VV	5761	99866	2.78%	0.297%
117	8.338	8.331	8.371	VV	1865	39032	1.09%	0.116%
118	8.397	8.371	8.420	VV	2189	52228	1.45%	0.155%
119	8.450	8.420	8.487	VV	15622	228830	6.36%	0.680%
120	8.503	8.487	8.516	VV	3895	55621	1.55%	0.165%
121	8.534	8.516	8.556	VV	3513	78429	2.18%	0.233%
122	8.567	8.556	8.582	VV	3179	42570	1.18%	0.127%
123	8.601	8.582	8.623	VV	6810	101158	2.81%	0.301%
124	8.639	8.623	8.651	VV	4132	54394	1.51%	0.162%
125	8.685	8.651	8.714	VV	11063	214946	5.98%	0.639%
126	8.735	8.714	8.751	VV	2981	51479	1.43%	0.153%
127	8.761	8.751	8.783	VV	2366	36759	1.02%	0.109%
128	8.806	8.783	8.816	VV	2099	34773	0.97%	0.103%
129	8.832	8.816	8.851	VV	2662	45472	1.26%	0.135%
130	8.866	8.851	8.880	VV	2895	41614	1.16%	0.124%
131	8.907	8.880	8.929	VV	3843	87008	2.42%	0.259%
132	8.970	8.929	9.022	VV	9040	219417	6.10%	0.652%
133	9.055	9.022	9.081	VV	3553	75570	2.10%	0.225%
134	9.099	9.081	9.137	VV	2036	49409	1.37%	0.147%
135	9.175	9.137	9.187	VV	2026	42228	1.17%	0.126%
136	9.207	9.187	9.241	VV	2128	58673	1.63%	0.174%
137	9.272	9.241	9.308	VV	2806	81216	2.26%	0.241%
138	9.345	9.308	9.377	VV	7499	171930	4.78%	0.511%
139	9.388	9.377	9.400	VV	2506	31821	0.89%	0.095%
140	9.427	9.400	9.451	VV	4016	85049	2.37%	0.253%
141	9.475	9.451	9.492	VV	3869	66125	1.84%	0.197%

rteres

142	9.506	9.492	9.513	VV	3048	34000	0.95%	0.101%
143	9.527	9.513	9.554	VV	4176	63176	1.76%	0.188%
144	9.584	9.554	9.601	VV	1454	34593	0.96%	0.103%
145	9.624	9.601	9.639	VV	1202	24897	0.69%	0.074%
146	9.666	9.639	9.682	VV	3129	51851	1.44%	0.154%
147	9.704	9.682	9.727	VV	3554	75672	2.10%	0.225%
148	9.747	9.727	9.778	VV	8258	125220	3.48%	0.372%
149	9.826	9.778	9.837	VV	2610	80198	2.23%	0.238%
150	9.848	9.837	9.894	VV	2726	63472	1.77%	0.189%
151	9.923	9.894	9.938	VV	1755	38597	1.07%	0.115%
152	9.979	9.938	10.004	VV	2041	68303	1.90%	0.203%
153	10.024	10.004	10.048	VV	2296	45459	1.26%	0.135%
154	10.094	10.048	10.106	VV	3654	80853	2.25%	0.240%
155	10.135	10.106	10.164	VV	13084	235971	6.56%	0.702%
156	10.184	10.164	10.204	VV	3749	70021	1.95%	0.208%
157	10.224	10.204	10.254	VV	3804	81485	2.27%	0.242%
158	10.280	10.254	10.306	VV	4188	81054	2.25%	0.241%
159	10.323	10.306	10.353	VV	1776	46069	1.28%	0.137%
160	10.381	10.353	10.394	VV	2482	50093	1.39%	0.149%
161	10.417	10.394	10.448	VV	3498	84586	2.35%	0.252%
162	10.485	10.448	10.522	VV	7849	186312	5.18%	0.554%
163	10.558	10.522	10.588	VV	15289	292692	8.14%	0.870%
164	10.602	10.588	10.638	VV	3776	89831	2.50%	0.267%
165	10.675	10.638	10.688	VV	2756	72165	2.01%	0.215%
166	10.700	10.688	10.728	VV	2762	59946	1.67%	0.178%
167	10.756	10.728	10.784	VV	2851	83723	2.33%	0.249%
168	10.810	10.784	10.843	VV	4417	125023	3.48%	0.372%
169	10.876	10.843	10.922	VV	6862	195932	5.45%	0.583%
170	10.939	10.922	10.973	VV	3702	91314	2.54%	0.272%
171	10.991	10.973	11.034	VV	3798	104690	2.91%	0.311%
172	11.050	11.034	11.067	VV	2562	48051	1.34%	0.143%
173	11.080	11.067	11.090	VV	2578	33679	0.94%	0.100%
174	11.118	11.090	11.153	VV	4933	130320	3.62%	0.388%
175	11.187	11.153	11.243	VV	8554	230893	6.42%	0.687%
176	11.278	11.243	11.316	VV	11666	253744	7.06%	0.755%
177	11.342	11.316	11.365	VV	3614	83244	2.32%	0.248%
178	11.385	11.365	11.402	VV	2790	54381	1.51%	0.162%
179	11.487	11.402	11.528	VV	5137	260923	7.26%	0.776%
180	11.551	11.528	11.560	VV	3597	64351	1.79%	0.191%
181	11.584	11.560	11.608	VV	6025	128586	3.58%	0.382%
182	11.624	11.608	11.657	VV	3864	99125	2.76%	0.295%
183	11.675	11.657	11.694	VV	4297	79854	2.22%	0.237%
184	11.704	11.694	11.720	VV	3171	47568	1.32%	0.141%
185	11.740	11.720	11.772	VV	3741	104372	2.90%	0.310%
186	11.799	11.772	11.809	VV	4477	83759	2.33%	0.249%
187	11.839	11.809	11.885	VV	7684	262965	7.31%	0.782%
188	11.900	11.885	11.941	VV	4311	127169	3.54%	0.378%
189	11.962	11.941	11.971	VV	4058	68917	1.92%	0.205%
190	11.985	11.971	12.032	VV	4472	135841	3.78%	0.404%
191	12.094	12.032	12.114	VV	4758	199728	5.56%	0.594%
192	12.131	12.114	12.144	VV	5545	90758	2.52%	0.270%
193	12.150	12.144	12.180	VV	5194	96742	2.69%	0.288%
194	12.266	12.180	12.288	VV	6443	291767	8.12%	0.868%

rteres

195	12.312	12.288	12.340	VV	6801	156780	4.36%	0.466%
196	12.359	12.340	12.399	VV	5083	154991	4.31%	0.461%
197	12.423	12.399	12.470	VV	6298	193926	5.39%	0.577%
198	12.496	12.470	12.516	VV	8763	155656	4.33%	0.463%
199	12.525	12.516	12.539	VV	4637	59965	1.67%	0.178%
200	12.558	12.539	12.582	VV	4687	105883	2.95%	0.315%
201	12.612	12.582	12.625	VV	4055	98581	2.74%	0.293%
202	12.641	12.625	12.671	VV	4543	99892	2.78%	0.297%
203	12.680	12.671	12.698	VV	3106	45987	1.28%	0.137%
204	12.748	12.698	12.769	VV	4733	154555	4.30%	0.460%
205	12.783	12.769	12.804	VV	4015	76432	2.13%	0.227%
206	12.819	12.804	12.841	VV	3896	73910	2.06%	0.220%
207	12.882	12.841	12.899	VV	6796	172308	4.79%	0.512%
208	12.941	12.899	12.973	VV	283426	3595217	100.00%	10.690%
209	12.989	12.973	13.024	VV	6317	162203	4.51%	0.482%
210	13.040	13.024	13.064	VV	4556	96573	2.69%	0.287%
211	13.075	13.064	13.087	VV	4048	51669	1.44%	0.154%
212	13.108	13.087	13.130	VV	5710	116927	3.25%	0.348%
213	13.149	13.130	13.168	VV	4656	99274	2.76%	0.295%
214	13.177	13.168	13.194	VV	4887	70169	1.95%	0.209%
215	13.211	13.194	13.231	VV	4285	86162	2.40%	0.256%
216	13.242	13.231	13.252	VV	3729	45355	1.26%	0.135%
217	13.272	13.252	13.297	VV	4410	100319	2.79%	0.298%
218	13.336	13.297	13.364	VV	6390	197167	5.48%	0.586%
219	13.383	13.364	13.401	VV	5129	106091	2.95%	0.315%
220	13.414	13.401	13.436	VV	4554	88963	2.47%	0.265%
221	13.455	13.436	13.470	VV	4783	89948	2.50%	0.267%
222	13.488	13.470	13.503	VV	4914	89157	2.48%	0.265%
223	13.527	13.503	13.571	VV	6516	208004	5.79%	0.618%
224	13.605	13.571	13.668	VV	5235	255979	7.12%	0.761%
225	13.691	13.668	13.724	VV	7906	187723	5.22%	0.558%
226	13.743	13.724	13.762	VV	5611	113167	3.15%	0.337%
227	13.777	13.762	13.857	VV	5891	257693	7.17%	0.766%
228	13.917	13.857	13.954	VV	6760	302252	8.41%	0.899%
229	13.959	13.954	13.973	VV	5236	57877	1.61%	0.172%
230	13.990	13.973	14.048	VV	5848	219415	6.10%	0.652%
231	14.055	14.048	14.063	VV	5137	46367	1.29%	0.138%
232	14.081	14.063	14.091	VV	5931	89313	2.48%	0.266%
233	14.110	14.091	14.145	VV	6562	184414	5.13%	0.548%
234	14.163	14.145	14.231	VV	5342	231986	6.45%	0.690%
235	14.252	14.231	14.287	VV	6433	167061	4.65%	0.497%
236	14.323	14.287	14.361	VV	6839	254416	7.08%	0.757%
237	14.373	14.361	14.423	VV	5869	192251	5.35%	0.572%
238	14.459	14.423	14.491	VV	6338	221986	6.17%	0.660%
239	14.536	14.491	14.558	VV	6387	227200	6.32%	0.676%
240	14.571	14.558	14.588	VV	5421	88449	2.46%	0.263%
241	14.606	14.588	14.626	VV	5354	115177	3.20%	0.342%
242	14.646	14.626	14.658	VV	5941	104057	2.89%	0.309%
243	14.679	14.658	14.734	VV	6731	260814	7.25%	0.776%
244	14.748	14.734	14.767	VV	5192	96238	2.68%	0.286%
245	14.795	14.767	14.824	VV	7922	204818	5.70%	0.609%
246	14.867	14.824	14.889	VV	6473	229589	6.39%	0.683%

rteres

247	14.910	14.889	14.960	VV	6547	221653	6.17%	0.659%
248	14.995	14.960	15.014	VV	6541	182098	5.07%	0.541%
249	15.040	15.014	15.060	VV	6142	156235	4.35%	0.465%
250	15.070	15.060	15.101	VV	6164	139079	3.87%	0.414%
251	15.107	15.101	15.114	VV	5299	41385	1.15%	0.123%
252	15.133	15.114	15.168	VV	5959	170435	4.74%	0.507%
253	15.178	15.168	15.198	VV	5547	92857	2.58%	0.276%
254	15.218	15.198	15.284	VV	7041	277936	7.73%	0.826%
255	15.316	15.284	15.342	VV	6990	210330	5.85%	0.625%
256	15.360	15.342	15.381	VV	7157	154521	4.30%	0.459%
257	15.400	15.381	15.470	VV	6214	276728	7.70%	0.823%
258	15.495	15.470	15.511	VV	6300	133245	3.71%	0.396%
259	15.528	15.511	15.546	VV	6254	123203	3.43%	0.366%
260	15.560	15.546	15.589	VV	6281	152016	4.23%	0.452%
261	15.626	15.589	15.681	VV	6992	330365	9.19%	0.982%
262	15.699	15.681	15.728	VV	6102	156758	4.36%	0.466%
263	15.743	15.728	15.759	VV	6267	108162	3.01%	0.322%
264	15.770	15.759	15.790	VV	5817	101163	2.81%	0.301%
265	15.814	15.790	15.831	VV	7794	155492	4.32%	0.462%
266	15.851	15.831	15.888	VV	6997	206110	5.73%	0.613%
267	15.912	15.888	15.958	VV	5755	212444	5.91%	0.632%
268	15.989	15.958	16.025	VV	7236	237774	6.61%	0.707%
269	16.048	16.025	16.083	VV	6526	203911	5.67%	0.606%
270	16.103	16.083	16.148	VV	6211	226210	6.29%	0.673%
271	16.155	16.148	16.163	VV	5706	52645	1.46%	0.157%
272	16.179	16.163	16.228	VV	6111	206424	5.74%	0.614%
273	16.246	16.228	16.271	VV	6302	140038	3.90%	0.416%
274	16.297	16.271	16.314	VV	6730	146328	4.07%	0.435%
275	16.335	16.314	16.376	VV	6549	196626	5.47%	0.585%
276	16.402	16.376	16.429	VV	5390	154316	4.29%	0.459%
277	16.461	16.429	16.500	VV	6389	237459	6.60%	0.706%
278	16.527	16.500	16.551	VV	6511	174137	4.84%	0.518%
279	16.564	16.551	16.614	VV	5851	199034	5.54%	0.592%
280	16.639	16.614	16.701	VV	5846	251190	6.99%	0.747%
281	16.729	16.701	16.744	VV	5518	124056	3.45%	0.369%
282	16.761	16.744	16.828	VV	6448	265851	7.39%	0.791%
283	16.913	16.828	16.957	VV	6100	371365	10.33%	1.104%
284	16.983	16.957	17.058	VV	5462	280173	7.79%	0.833%
285	17.088	17.058	17.128	VV	6115	196942	5.48%	0.586%
286	17.213	17.128	17.253	VV	6578	315328	8.77%	0.938%
287	17.268	17.253	17.292	VV	3479	73105	2.03%	0.217%
288	17.331	17.292	17.399	VV	4876	246453	6.86%	0.733%
289	17.423	17.399	17.474	VV	3586	141849	3.95%	0.422%
290	17.490	17.474	17.520	VV	3249	86524	2.41%	0.257%
291	17.531	17.520	17.565	VV	3310	80551	2.24%	0.240%
292	17.585	17.565	17.608	VV	3316	75852	2.11%	0.226%
293	17.648	17.608	17.698	VV	5687	183976	5.12%	0.547%
294	17.706	17.698	17.740	VV	2635	60110	1.67%	0.179%
295	17.785	17.740	17.844	VV	4322	178390	4.96%	0.530%
296	17.859	17.844	17.898	VV	2418	66534	1.85%	0.198%
297	17.934	17.898	17.994	VV	2630	123030	3.42%	0.366%
298	18.025	17.994	18.032	VV	1739	35065	0.98%	0.104%
299	18.071	18.032	18.117	VV	5201	125240	3.48%	0.372%

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300	18.150	18.117	18.180	VV	2258	64017	1.78%	0.190%
301	18.204	18.180	18.247	VV	1810	54532	1.52%	0.162%
302	18.263	18.247	18.308	VV	1621	43813	1.22%	0.130%
303	18.346	18.308	18.372	VV	1799	51130	1.42%	0.152%
304	18.381	18.372	18.417	VV	1184	20420	0.57%	0.061%
305	18.448	18.417	18.456	VV	1613	23794	0.66%	0.071%
306	18.479	18.456	18.528	VV	3238	72229	2.01%	0.215%
307	18.571	18.528	18.591	VV	963	22960	0.64%	0.068%
308	18.620	18.591	18.646	VV	1088	26183	0.73%	0.078%
309	18.664	18.646	18.698	VV	893	19088	0.53%	0.057%
310	18.738	18.698	18.761	VV	1147	23366	0.65%	0.069%
311	18.777	18.761	18.824	VV	763	14024	0.39%	0.042%
312	18.878	18.824	18.934	VV	2778	58159	1.62%	0.173%
313	18.948	18.934	18.972	VV	394	6329	0.18%	0.019%
314	18.996	18.972	19.021	PV	749	11856	0.33%	0.035%
315	19.063	19.021	19.091	VV	1110	24158	0.67%	0.072%
316	19.132	19.091	19.144	VV	545	11305	0.31%	0.034%
317	19.160	19.144	19.207	VV	666	12577	0.35%	0.037%
318	19.263	19.207	19.336	VV	3032	70929	1.97%	0.211%
319	19.372	19.336	19.472	VV	642	31145	0.87%	0.093%
320	19.504	19.472	19.523	VV	799	17547	0.49%	0.052%
321	19.542	19.523	19.601	VV	1049	32396	0.90%	0.096%
322	19.639	19.601	19.668	VV	2428	56469	1.57%	0.168%
323	19.684	19.668	19.728	VV	1253	32298	0.90%	0.096%
324	19.752	19.728	19.773	VV	993	23676	0.66%	0.070%
325	19.820	19.773	19.838	VV	1201	39551	1.10%	0.118%
326	19.868	19.838	19.881	VV	1518	32997	0.92%	0.098%
327	19.883	19.881	19.902	VV	1378	16100	0.45%	0.048%
328	19.912	19.902	19.961	VV	1257	38108	1.06%	0.113%
329	20.003	19.961	20.034	VV	3132	81456	2.27%	0.242%
330	20.057	20.034	20.078	VV	2015	42919	1.19%	0.128%
331	20.100	20.078	20.117	VV	1839	38605	1.07%	0.115%
332	20.201	20.117	20.211	VV	2302	109787	3.05%	0.326%
333	20.228	20.211	20.251	VV	2392	53228	1.48%	0.158%
334	20.273	20.251	20.296	VV	2556	61166	1.70%	0.182%
335	20.356	20.296	20.414	VV	4175	201566	5.61%	0.599%
336	20.442	20.414	20.467	VV	3336	96794	2.69%	0.288%
337	20.477	20.467	20.495	VV	3430	54115	1.51%	0.161%
338	20.506	20.495	20.511	VV	3199	28407	0.79%	0.084%
339	20.531	20.511	20.548	VV	3554	72097	2.01%	0.214%
340	20.557	20.548	20.641	VV	3230	162410	4.52%	0.483%
341	20.722	20.641	20.791	VV	3653	247551	6.89%	0.736%
342	20.813	20.791	20.871	VV	2296	95135	2.65%	0.283%
343	20.903	20.871	21.014	VV	1703	125142	3.48%	0.372%
344	21.042	21.014	21.088	VV	1490	56458	1.57%	0.168%
345	21.136	21.088	21.227	VV	1792	102084	2.84%	0.304%
346	21.272	21.227	21.284	VV	1384	38310	1.07%	0.114%
347	21.289	21.284	21.318	VV	1240	22103	0.61%	0.066%
348	21.325	21.318	21.332	VV	1064	8005	0.22%	0.024%
349	21.338	21.332	21.348	VV	1068	9358	0.26%	0.028%
350	21.379	21.348	21.429	VV	1033	45486	1.27%	0.135%
351	21.437	21.429	21.452	VV	774	9614	0.27%	0.029%

rteres

352	21.461	21.452	21.478	VV	645	8688	0.24%	0.026%
353	21.491	21.478	21.504	VV	673	8898	0.25%	0.026%
354	21.531	21.504	21.544	VV	582	13180	0.37%	0.039%
355	21.609	21.544	21.714	VV	1150	52436	1.46%	0.156%

Sum of corrected areas: 33630373

Aliphatic EPH 100224.M Tue Oct 15 06:39:50 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048521.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 11:10
Operator : YP/AJ
Sample : P4397-01
Misc :
ALS Vial : 86 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-301-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

Integration File: autoint1.e
Quant Time: Oct 16 01:37:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 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...	7.377	8119618	49.041 ug/ml
Spiked Amount 50.000		Recovery = 98.08%	
6) S 2-Flurobiphenyl (SURR)	8.227	5233558	50.466 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 100.93%	
11) S ortho-Terphenyl (SURR)	11.264	4301929	23.381 ug/mlm
Spiked Amount 50.000		Recovery = 46.76%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

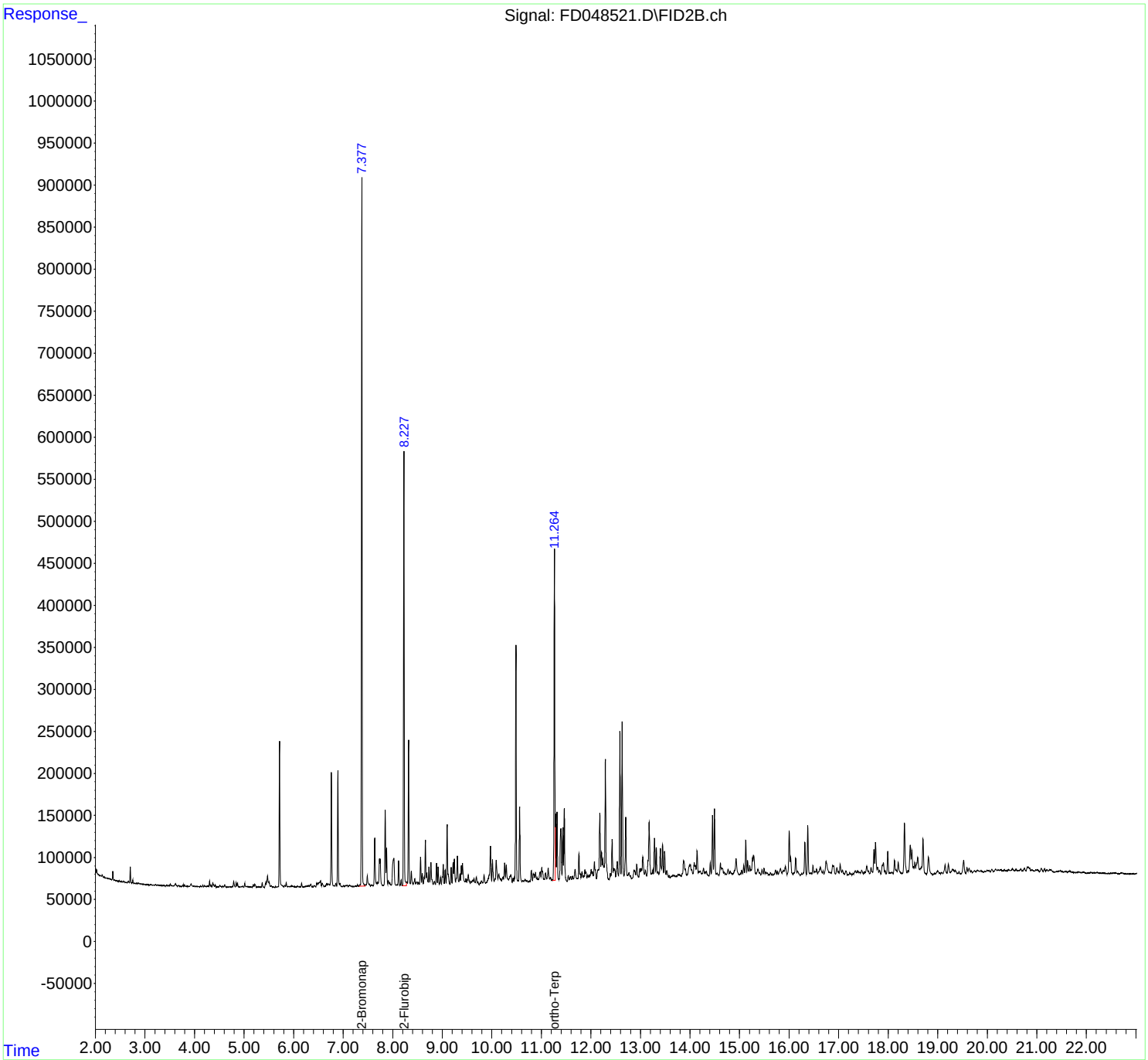
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048521.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 11:10
Operator : YP/AJ
Sample : P4397-01
Misc :
ALS Vial : 86 Sample Multiplier: 1

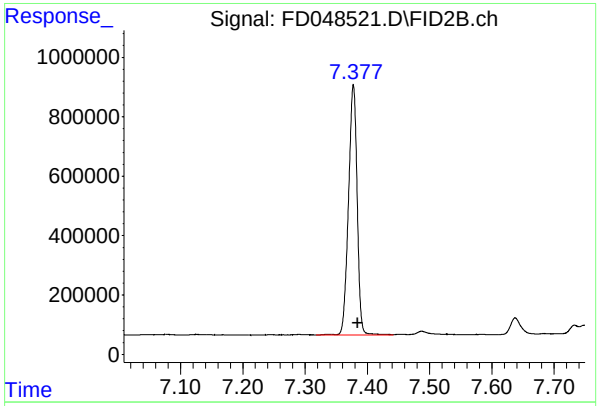
Integration File: autoint1.e
Quant Time: Oct 16 01:37:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
WB-301-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024





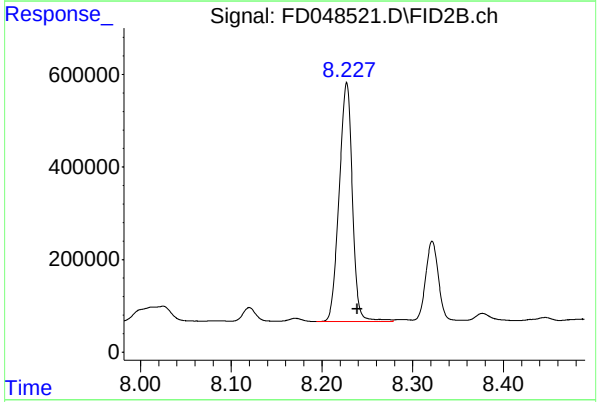
#4 2-Bromonaphthalene (SURR)

R.T.: 7.377 min
Delta R.T.: -0.007 min
Response: 8119618
Conc: 49.04 ug/ml

Instrument :
FID_D
ClientSampleId :
WB-301-TOP

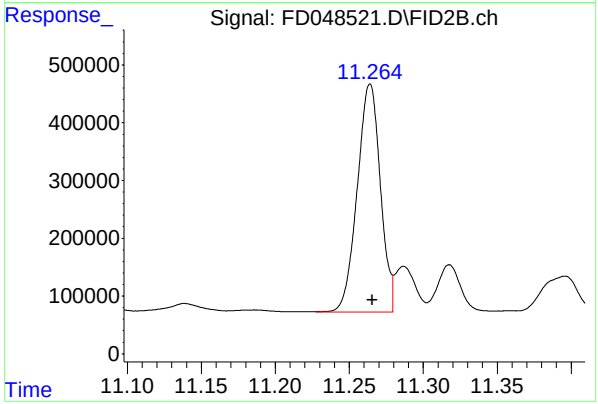
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024



#6 2-Flurobiphenyl (SURR)

R.T.: 8.227 min
Delta R.T.: -0.012 min
Response: 5233558
Conc: 50.47 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.264 min
Delta R.T.: -0.002 min
Response: 4301929
Conc: 23.38 ug/ml m

12

Instrument :
FID_D
ClientSampleId :
WB-301-TOP

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10142
Data File : FD048521.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 11:10
Sample : P4397-01
Misc :
ALS Vial : 86 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.167	4.152	4.187	PV	1530	13353	0.16%	0.014%
2	4.202	4.187	4.220	PV	1602	14335	0.18%	0.015%
3	4.237	4.220	4.248	PV	886	8040	0.10%	0.008%
4	4.268	4.248	4.285	VV	1152	14694	0.18%	0.015%
5	4.304	4.285	4.322	VV	7133	65881	0.81%	0.068%
6	4.330	4.322	4.352	VV	2072	19616	0.24%	0.020%
7	4.369	4.352	4.403	VV	5033	71032	0.87%	0.073%
8	4.417	4.403	4.438	VV	3005	29968	0.37%	0.031%
9	4.445	4.438	4.461	VV	410	3271	0.04%	0.003%
10	4.482	4.461	4.492	VV	518	5960	0.07%	0.006%
11	4.511	4.492	4.526	VV	2387	26382	0.32%	0.027%
12	4.535	4.526	4.552	VV	977	10702	0.13%	0.011%
13	4.573	4.552	4.591	VV	1478	18696	0.23%	0.019%
14	4.610	4.591	4.641	VV	2957	38647	0.47%	0.040%
15	4.647	4.641	4.656	VV	431	2170	0.03%	0.002%
16	4.684	4.656	4.695	PV	543	6671	0.08%	0.007%
17	4.711	4.695	4.746	VV	833	12471	0.15%	0.013%
18	4.768	4.746	4.774	VV	1275	13421	0.16%	0.014%
19	4.791	4.774	4.825	VV	7128	92255	1.13%	0.095%
20	4.842	4.825	4.856	VV	5617	56181	0.69%	0.058%
21	4.868	4.856	4.911	VV	5126	59391	0.73%	0.061%
22	4.917	4.911	4.935	VV	578	6627	0.08%	0.007%
23	4.959	4.935	4.972	VV	1362	19055	0.23%	0.020%
24	4.977	4.972	4.994	VV	1026	9536	0.12%	0.010%
25	5.014	4.994	5.043	VV	4750	55585	0.68%	0.057%
26	5.058	5.043	5.069	VV	1326	16034	0.20%	0.016%
27	5.077	5.069	5.098	VV	1027	10270	0.13%	0.011%
28	5.101	5.098	5.107	VV	320	1262	0.02%	0.001%
29	5.116	5.107	5.125	VV	277	2483	0.03%	0.003%
30	5.132	5.125	5.146	VV	591	6231	0.08%	0.006%
31	5.151	5.146	5.172	VV	491	6526	0.08%	0.007%
32	5.187	5.172	5.203	VV	3504	40654	0.50%	0.042%
33	5.217	5.203	5.267	VV	3816	64156	0.79%	0.066%
34	5.271	5.267	5.274	VV	392	1410	0.02%	0.001%
35	5.293	5.274	5.338	VV	711	17037	0.21%	0.018%
36	5.366	5.338	5.390	VV	5509	59959	0.74%	0.062%

Instrument :
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Manual IntegrationsAPPROVED

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rteres

37	5.396	5.390	5.412	VV	452	4131	0.05%	0.004%
38	5.435	5.412	5.447	VV	4767	61090		
39	5.473	5.447	5.503	VV	13692	275884		
40	5.509	5.503	5.533	VV	5992	60925		
41	5.549	5.533	5.575	VV	2216	31579		
42	5.590	5.575	5.615	VV	593	8653		
43	5.637	5.615	5.655	PV	994	12961	0.16%	0.013%
44	5.689	5.655	5.695	VV	906	14527	0.18%	0.015%
45	5.716	5.695	5.805	VV	173994	1700790	20.89%	1.748%
46	5.822	5.805	5.836	VV	2448	29533	0.36%	0.030%
47	5.851	5.836	5.875	VV	5770	63398	0.78%	0.065%
48	5.877	5.875	5.880	VV	813	2185	0.03%	0.002%
49	5.898	5.880	5.908	VV	1040	14692	0.18%	0.015%
50	5.913	5.908	5.925	VV	950	6971	0.09%	0.007%
51	5.939	5.925	5.947	VV	1468	13934	0.17%	0.014%
52	5.958	5.947	5.971	VV	1727	18534	0.23%	0.019%
53	5.980	5.971	6.003	VV	1380	19521	0.24%	0.020%
54	6.013	6.003	6.034	VV	840	11003	0.14%	0.011%
55	6.041	6.034	6.045	VV	284	1544	0.02%	0.002%
56	6.078	6.045	6.097	VV	1706	22986	0.28%	0.024%
57	6.111	6.097	6.125	VV	724	7242	0.09%	0.007%
58	6.162	6.125	6.190	VV	5046	56069	0.69%	0.058%
59	6.194	6.190	6.208	VV	547	3666	0.05%	0.004%
60	6.245	6.208	6.254	VV	1173	20247	0.25%	0.021%
61	6.269	6.254	6.286	VV	1686	26070	0.32%	0.027%
62	6.308	6.286	6.320	VV	2288	34221	0.42%	0.035%
63	6.348	6.320	6.370	VV	3664	59327	0.73%	0.061%
64	6.381	6.370	6.398	VV	798	8186	0.10%	0.008%
65	6.412	6.398	6.421	VV	1849	17088	0.21%	0.018%
66	6.426	6.421	6.446	VV	1703	14793	0.18%	0.015%
67	6.467	6.446	6.481	VV	5120	60398	0.74%	0.062%
68	6.494	6.481	6.503	VV	5279	57306	0.70%	0.059%
69	6.515	6.503	6.520	VV	5440	51608	0.63%	0.053%
70	6.529	6.520	6.535	VV	5974	50394	0.62%	0.052%
71	6.544	6.535	6.561	VV	7881	80508	0.99%	0.083%
72	6.579	6.561	6.611	VV	4884	83218	1.02%	0.086%
73	6.671	6.611	6.687	VV	4361	94703	1.16%	0.097%
74	6.702	6.687	6.711	VV	3938	47574	0.58%	0.049%
75	6.717	6.711	6.732	VV	3587	38928	0.48%	0.040%
76	6.762	6.732	6.809	VV	136204	1384816	17.01%	1.423%
77	6.814	6.809	6.835	VV	1781	22927	0.28%	0.024%
78	6.853	6.835	6.871	VV	4373	55844	0.69%	0.057%
79	6.894	6.871	6.926	VV	138495	1348670	16.57%	1.386%
80	6.937	6.926	6.985	VV	4321	62274	0.77%	0.064%
81	7.003	6.985	7.023	VV	1355	21143	0.26%	0.022%
82	7.046	7.023	7.058	VV	2099	27426	0.34%	0.028%
83	7.079	7.058	7.106	VV	2362	41166	0.51%	0.042%
84	7.127	7.106	7.162	VV	2226	45981	0.56%	0.047%
85	7.168	7.162	7.183	VV	1132	7766	0.10%	0.008%
86	7.196	7.183	7.213	VV	682	6370	0.08%	0.007%
87	7.244	7.213	7.262	PV	1100	20325	0.25%	0.021%
88	7.265	7.262	7.268	VV	999	3570	0.04%	0.004%
89	7.272	7.268	7.275	VV	999	3751	0.05%	0.004%

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rteres

90	7.291	7.275	7.320	VV	2218	34387	0.42%	0.035%
91	7.338	7.320	7.350	VV	2520	32762		
92	7.378	7.350	7.440	VV	841341	8140359	100	
93	7.453	7.440	7.465	VV	2337	29103		
94	7.488	7.465	7.521	VV	12848	193114		
95	7.527	7.521	7.547	VV	2877	33778		
96	7.586	7.547	7.602	VV	1978	47124	0.58%	0.048%
97	7.638	7.602	7.672	VV	57813	708588	8.70%	0.728%
98	7.685	7.672	7.697	VV	4739	60321	0.74%	0.062%
99	7.733	7.697	7.740	VV	32907	366315	4.50%	0.376%
100	7.748	7.740	7.793	VV	32802	377453	4.64%	0.388%
101	7.807	7.793	7.817	VV	1267	15388	0.19%	0.016%
102	7.850	7.817	7.865	VV	90381	961716	11.81%	0.988%
103	7.877	7.865	7.899	VV	45503	468060	5.75%	0.481%
104	7.913	7.899	7.932	VV	6636	94871	1.17%	0.098%
105	7.943	7.932	7.959	VV	4210	47557	0.58%	0.049%
106	7.965	7.959	7.975	VV	1498	13520	0.17%	0.014%
107	8.025	7.975	8.068	VV	33446	840876	10.33%	0.864%
108	8.086	8.068	8.100	VV	1664	25874	0.32%	0.027%
109	8.120	8.100	8.152	VV	30394	306609	3.77%	0.315%
110	8.171	8.152	8.193	VV	7135	72783	0.89%	0.075%
111	8.227	8.193	8.279	VV	517186	5237738	64.34%	5.383%
112	8.288	8.279	8.299	VV	4349	48191	0.59%	0.050%
113	8.322	8.299	8.357	VV	173431	1725110	21.19%	1.773%
114	8.377	8.357	8.415	VV	17489	243689	2.99%	0.250%
115	8.446	8.415	8.463	VV	8576	132276	1.62%	0.136%
116	8.487	8.463	8.504	VV	4931	87022	1.07%	0.089%
117	8.517	8.504	8.535	VV	4120	52914	0.65%	0.054%
118	8.564	8.535	8.583	VV	34095	394132	4.84%	0.405%
119	8.598	8.583	8.619	VV	14520	168831	2.07%	0.174%
120	8.637	8.619	8.644	VV	10219	102893	1.26%	0.106%
121	8.661	8.644	8.678	VV	54007	560271	6.88%	0.576%
122	8.688	8.678	8.714	VV	14701	205892	2.53%	0.212%
123	8.733	8.714	8.749	VV	22039	241645	2.97%	0.248%
124	8.773	8.749	8.817	VV	27144	405215	4.98%	0.416%
125	8.842	8.817	8.863	VV	4555	76466	0.94%	0.079%
126	8.886	8.863	8.903	VV	26305	290465	3.57%	0.299%
127	8.919	8.903	8.940	VV	21976	227761	2.80%	0.234%
128	8.968	8.940	8.985	VV	9477	122562	1.51%	0.126%
129	9.001	8.985	9.007	VV	10273	85006	1.04%	0.087%
130	9.022	9.007	9.042	VV	24688	285545	3.51%	0.293%
131	9.059	9.042	9.079	VV	18096	201541	2.48%	0.207%
132	9.100	9.079	9.158	VV	71887	926832	11.39%	0.953%
133	9.180	9.158	9.199	VV	21013	237263	2.91%	0.244%
134	9.220	9.199	9.232	VV	26879	301689	3.71%	0.310%
135	9.245	9.232	9.269	VV	30690	396198	4.87%	0.407%
136	9.307	9.269	9.334	VV	34262	511878	6.29%	0.526%
137	9.358	9.334	9.371	VV	12962	169956	2.09%	0.175%
138	9.385	9.371	9.397	VV	22879	234860	2.89%	0.241%
139	9.409	9.397	9.455	VV	25491	427235	5.25%	0.439%
140	9.478	9.455	9.494	VV	7198	109483	1.34%	0.113%
141	9.527	9.494	9.545	VV	11495	209934	2.58%	0.216%

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rteres

142	9.550	9.545	9.567	VV	3835	36135	0.44%	0.037%
143	9.582	9.567	9.597	VV	4016	52199		
144	9.614	9.597	9.628	VV	5321	77451		
145	9.642	9.628	9.666	VV	7268	102189		
146	9.689	9.666	9.711	VV	8962	140016		
147	9.721	9.711	9.745	VV	2970	31483		
148	9.765	9.745	9.773	PV	1445	13781	0.17%	0.014%
149	9.791	9.773	9.821	VV	4019	71273	0.88%	0.073%
150	9.845	9.821	9.880	VV	10906	166166	2.04%	0.171%
151	9.975	9.880	9.997	VV	45365	844296	10.37%	0.868%
152	10.015	9.997	10.046	VV	29184	397144	4.88%	0.408%
153	10.065	10.046	10.071	VV	6111	72362	0.89%	0.074%
154	10.090	10.071	10.125	VV	28455	487571	5.99%	0.501%
155	10.142	10.125	10.180	VV	11725	264880	3.25%	0.272%
156	10.185	10.180	10.199	VV	5607	51529	0.63%	0.053%
157	10.228	10.199	10.240	VV	8163	151889	1.87%	0.156%
158	10.261	10.240	10.277	VV	24884	333871	4.10%	0.343%
159	10.294	10.277	10.336	VV	22407	383399	4.71%	0.394%
160	10.367	10.336	10.371	VV	8689	132899	1.63%	0.137%
161	10.385	10.371	10.412	VV	10652	182400	2.24%	0.187%
162	10.430	10.412	10.444	VV	6332	79015	0.97%	0.081%
163	10.488	10.444	10.523	VV	283203	2983281	36.65%	3.066%
164	10.529	10.523	10.539	VV	3237	28113	0.35%	0.029%
165	10.562	10.539	10.609	VV	91354	1089452	13.38%	1.120%
166	10.625	10.609	10.640	VV	3433	49977	0.61%	0.051%
167	10.673	10.640	10.695	VV	4382	104836	1.29%	0.108%
168	10.709	10.695	10.738	VV	3465	61831	0.76%	0.064%
169	10.754	10.738	10.774	VV	2565	43139	0.53%	0.044%
170	10.799	10.774	10.822	VV	14837	232932	2.86%	0.239%
171	10.838	10.822	10.868	VV	11201	231301	2.84%	0.238%
172	10.883	10.868	10.907	VV	12281	193692	2.38%	0.199%
173	10.918	10.907	10.933	VV	6177	76600	0.94%	0.079%
174	10.978	10.933	10.994	VV	13177	300370	3.69%	0.309%
175	11.010	10.994	11.020	VV	18219	212665	2.61%	0.219%
176	11.026	11.020	11.045	VV	14060	146286	1.80%	0.150%
177	11.052	11.045	11.062	VV	4533	44023	0.54%	0.045%
178	11.085	11.062	11.106	VV	11693	192109	2.36%	0.197%
179	11.139	11.106	11.168	VV	17238	343080	4.21%	0.353%
180	11.186	11.168	11.211	VV	5903	116275	1.43%	0.120%
181	11.264	11.211	11.280	VV	396820	4424065	54.35%	4.547%
182	11.287	11.280	11.303	VV	81541	755347	9.28%	0.776%
183	11.318	11.303	11.348	VV	84179	948868	11.66%	0.975%
184	11.359	11.348	11.363	VV	4190	35886	0.44%	0.037%
185	11.396	11.363	11.415	VV	64115	1089474	13.38%	1.120%
186	11.434	11.415	11.448	VV	65346	721232	8.86%	0.741%
187	11.464	11.448	11.519	VV	88035	1077633	13.24%	1.108%
188	11.544	11.519	11.565	VV	7577	112158	1.38%	0.115%
189	11.590	11.565	11.610	VV	6756	131013	1.61%	0.135%
190	11.628	11.610	11.644	VV	6851	99734	1.23%	0.102%
191	11.681	11.644	11.723	VV	14833	357200	4.39%	0.367%
192	11.729	11.723	11.737	VV	4031	31479	0.39%	0.032%
193	11.759	11.737	11.778	VV	33816	424055	5.21%	0.436%
194	11.784	11.778	11.801	VV	9712	105736	1.30%	0.109%

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A B C D E F G H I J

rteres

195	11.820	11.801	11.839	VV	11860	192288	2.36%	0.198%
196	11.850	11.839	11.862	VV	7197	87604		
197	11.878	11.862	11.890	VV	14246	180696		
198	11.901	11.890	11.921	VV	11470	162218		
199	11.935	11.921	11.948	VV	7489	99824		
200	11.961	11.948	11.974	VV	7826	100875		
201	12.005	11.974	12.019	VV	14454	265159	3.26%	0.273%
202	12.030	12.019	12.050	VV	11665	170304	2.09%	0.175%
203	12.072	12.050	12.112	VV	23490	466823	5.73%	0.480%
204	12.150	12.112	12.157	VV	13828	274721	3.37%	0.282%
205	12.180	12.157	12.199	VV	81097	1088186	13.37%	1.118%
206	12.215	12.199	12.231	VV	34632	526364	6.47%	0.541%
207	12.243	12.231	12.257	VV	26961	335347	4.12%	0.345%
208	12.265	12.257	12.271	VV	18101	149287	1.83%	0.153%
209	12.292	12.271	12.356	VV	144487	1947400	23.92%	2.001%
210	12.362	12.356	12.371	VV	2681	20596	0.25%	0.021%
211	12.392	12.371	12.406	VV	9043	128710	1.58%	0.132%
212	12.428	12.406	12.448	VV	49838	618609	7.60%	0.636%
213	12.460	12.448	12.470	VV	14799	175095	2.15%	0.180%
214	12.479	12.470	12.499	VV	14821	184234	2.26%	0.189%
215	12.533	12.499	12.558	VV	23164	455040	5.59%	0.468%
216	12.585	12.558	12.607	VV	177710	2011550	24.71%	2.067%
217	12.631	12.607	12.668	VV	188919	2197415	26.99%	2.258%
218	12.704	12.668	12.743	VV	75579	1130908	13.89%	1.162%
219	12.765	12.743	12.788	VV	9515	196346	2.41%	0.202%
220	12.797	12.788	12.818	VV	5793	77934	0.96%	0.080%
221	12.872	12.818	12.905	VV	12511	366337	4.50%	0.376%
222	12.924	12.905	12.965	VV	19049	346321	4.25%	0.356%
223	12.987	12.965	12.999	VV	14046	190497	2.34%	0.196%
224	13.014	12.999	13.026	VV	13893	203786	2.50%	0.209%
225	13.046	13.026	13.081	VV	28024	542178	6.66%	0.557%
226	13.098	13.081	13.125	VV	12096	223456	2.75%	0.230%
227	13.175	13.125	13.216	VV	68828	1374627	16.89%	1.413%
228	13.227	13.216	13.231	VV	7595	65771	0.81%	0.068%
229	13.250	13.231	13.262	VV	12272	179171	2.20%	0.184%
230	13.283	13.262	13.303	VV	49941	674821	8.29%	0.694%
231	13.319	13.303	13.342	VV	38354	493806	6.07%	0.508%
232	13.353	13.342	13.369	VV	9812	138754	1.70%	0.143%
233	13.401	13.369	13.425	VV	37771	626251	7.69%	0.644%
234	13.447	13.425	13.468	VV	41880	595947	7.32%	0.612%
235	13.486	13.468	13.511	VV	34071	473488	5.82%	0.487%
236	13.530	13.511	13.570	VV	10571	249724	3.07%	0.257%
237	13.576	13.570	13.597	VV	3788	52377	0.64%	0.054%
238	13.634	13.597	13.640	VV	4088	86298	1.06%	0.089%
239	13.655	13.640	13.673	VV	5465	91340	1.12%	0.094%
240	13.684	13.673	13.703	VV	4978	76113	0.94%	0.078%
241	13.719	13.703	13.732	VV	4078	62895	0.77%	0.065%
242	13.758	13.732	13.772	VV	6215	115444	1.42%	0.119%
243	13.790	13.772	13.825	VV	5827	151961	1.87%	0.156%
244	13.844	13.825	13.848	VV	6852	76954	0.95%	0.079%
245	13.872	13.848	13.897	VV	22106	468823	5.76%	0.482%
246	13.905	13.897	13.939	VV	12284	207928	2.55%	0.214%

12

Instrument :
FID_D
ClientSampleId :
WB-301-TOP

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

A B C D E F G H I J

rteres

247	13.985	13.939	13.997	VV	16078	379328	4.66%	0.390%
248	14.008	13.997	14.026	VV	17257	258806	3	
249	14.035	14.026	14.057	VV	11157	165636	2	
250	14.084	14.057	14.098	VV	19385	325399	4	
251	14.103	14.098	14.122	VV	15599	202859	2	
252	14.141	14.122	14.166	VV	33404	513084	6	
253	14.175	14.166	14.185	VV	9043	93559	1.15%	0.096%
254	14.203	14.185	14.244	VV	9437	271734	3.34%	0.279%
255	14.272	14.244	14.290	VV	12517	246882	3.03%	0.254%
256	14.303	14.290	14.315	VV	8048	106877	1.31%	0.110%
257	14.330	14.315	14.384	VV	8715	224923	2.76%	0.231%
258	14.407	14.384	14.426	VV	18765	259401	3.19%	0.267%
259	14.453	14.426	14.473	VV	75706	943478	11.59%	0.970%
260	14.493	14.473	14.528	VV	82469	1067858	13.12%	1.097%
261	14.547	14.528	14.582	VV	6563	164042	2.02%	0.169%
262	14.613	14.582	14.628	VV	18396	297316	3.65%	0.306%
263	14.642	14.628	14.650	VV	11981	152038	1.87%	0.156%
264	14.657	14.650	14.677	VV	11428	148171	1.82%	0.152%
265	14.686	14.677	14.732	VV	7250	185637	2.28%	0.191%
266	14.767	14.732	14.791	VV	10506	253355	3.11%	0.260%
267	14.812	14.791	14.827	VV	8175	142895	1.76%	0.147%
268	14.837	14.827	14.853	VV	5639	79940	0.98%	0.082%
269	14.928	14.853	14.992	VV	23076	764604	9.39%	0.786%
270	15.019	14.992	15.024	VV	5043	85541	1.05%	0.088%
271	15.042	15.024	15.062	VV	8896	147976	1.82%	0.152%
272	15.083	15.062	15.102	VV	14686	229080	2.81%	0.235%
273	15.125	15.102	15.145	VV	44529	571710	7.02%	0.588%
274	15.161	15.145	15.188	VV	20196	325243	4.00%	0.334%
275	15.204	15.188	15.220	VV	14077	203748	2.50%	0.209%
276	15.229	15.220	15.238	VV	9250	92946	1.14%	0.096%
277	15.261	15.238	15.270	VV	23648	326027	4.01%	0.335%
278	15.284	15.270	15.327	VV	26258	535498	6.58%	0.550%
279	15.373	15.327	15.394	VV	9321	271780	3.34%	0.279%
280	15.400	15.394	15.428	VV	5492	89962	1.11%	0.092%
281	15.451	15.428	15.475	VV	8895	160050	1.97%	0.164%
282	15.494	15.475	15.513	VV	10691	165445	2.03%	0.170%
283	15.527	15.513	15.549	VV	5958	110230	1.35%	0.113%
284	15.556	15.549	15.584	VV	4746	82820	1.02%	0.085%
285	15.594	15.584	15.600	VV	3054	26553	0.33%	0.027%
286	15.623	15.600	15.645	VV	4920	98266	1.21%	0.101%
287	15.657	15.645	15.672	VV	3373	45904	0.56%	0.047%
288	15.688	15.672	15.698	VV	3370	44756	0.55%	0.046%
289	15.724	15.698	15.745	VV	8005	155156	1.91%	0.159%
290	15.761	15.745	15.783	VV	6641	107246	1.32%	0.110%
291	15.825	15.783	15.854	VV	9844	275727	3.39%	0.283%
292	15.888	15.854	15.901	VV	7706	181411	2.23%	0.186%
293	15.925	15.901	15.958	VV	12258	265859	3.27%	0.273%
294	16.001	15.958	16.021	VV	54044	832901	10.23%	0.856%
295	16.030	16.021	16.073	VV	22757	337461	4.15%	0.347%
296	16.132	16.073	16.157	VV	21639	421866	5.18%	0.434%
297	16.172	16.157	16.221	VV	6154	147134	1.81%	0.151%
298	16.255	16.221	16.266	VV	2846	58452	0.72%	0.060%
299	16.318	16.266	16.349	VV	40282	602559	7.40%	0.619%

12

Instrument :
FID_D
ClientSampleId :
WB-301-TOP

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

A B C D E F G H I J

rteres

300	16.376	16.349	16.425	VV	60514	817018	10.04%	0.840%
301	16.441	16.425	16.459	VV	3559	63483		
302	16.481	16.459	16.502	VV	12505	181190		
303	16.512	16.502	16.521	VV	4817	52755		
304	16.556	16.521	16.575	VV	7928	179016		
305	16.592	16.575	16.599	VV	4908	56739		
306	16.633	16.599	16.669	VV	9658	282747	3.47%	0.291%
307	16.685	16.669	16.705	VV	5298	84310	1.04%	0.087%
308	16.744	16.705	16.801	VV	16845	519154	6.38%	0.534%
309	16.810	16.801	16.828	VV	4220	58487	0.72%	0.060%
310	16.840	16.828	16.852	VV	3958	46764	0.57%	0.048%
311	16.878	16.852	16.888	VV	12032	179758	2.21%	0.185%
312	16.899	16.888	16.936	VV	11584	184355	2.26%	0.189%
313	16.964	16.936	16.983	VV	9118	154051	1.89%	0.158%
314	16.993	16.983	17.007	VV	4957	56626	0.70%	0.058%
315	17.030	17.007	17.060	VV	12925	223376	2.74%	0.230%
316	17.076	17.060	17.117	VV	6290	118312	1.45%	0.122%
317	17.150	17.117	17.180	VV	5074	99065	1.22%	0.102%
318	17.190	17.180	17.200	PV	466	3865	0.05%	0.004%
319	17.221	17.200	17.237	VV	2320	29374	0.36%	0.030%
320	17.254	17.237	17.268	VV	1573	19085	0.23%	0.020%
321	17.289	17.268	17.300	VV	1255	16277	0.20%	0.017%
322	17.340	17.300	17.358	VV	4889	113804	1.40%	0.117%
323	17.375	17.358	17.382	VV	4033	47128	0.58%	0.048%
324	17.394	17.382	17.414	VV	4033	64766	0.80%	0.067%
325	17.426	17.414	17.443	VV	2982	44043	0.54%	0.045%
326	17.464	17.443	17.507	VV	5330	113302	1.39%	0.116%
327	17.524	17.507	17.534	VV	3206	40753	0.50%	0.042%
328	17.567	17.534	17.628	VV	10075	252441	3.10%	0.259%
329	17.654	17.628	17.688	VV	8182	145217	1.78%	0.149%
330	17.712	17.688	17.727	VV	29457	386704	4.75%	0.397%
331	17.743	17.727	17.772	VV	37854	584575	7.18%	0.601%
332	17.785	17.772	17.810	VV	8095	129574	1.59%	0.133%
333	17.825	17.810	17.852	VV	4524	63825	0.78%	0.066%
334	17.881	17.852	17.889	PV	10757	132558	1.63%	0.136%
335	17.902	17.889	17.928	VV	13142	205306	2.52%	0.211%
336	17.938	17.928	17.965	VV	3433	43906	0.54%	0.045%
337	17.991	17.965	18.018	VV	26820	334953	4.11%	0.344%
338	18.025	18.018	18.030	VV	878	5133	0.06%	0.005%
339	18.049	18.030	18.061	VV	1272	18396	0.23%	0.019%
340	18.078	18.061	18.099	VV	1475	20821	0.26%	0.021%
341	18.128	18.099	18.151	PV	15062	206696	2.54%	0.212%
342	18.160	18.151	18.179	VV	2701	30774	0.38%	0.032%

Sum of corrected areas: 97301436

Aromatic EPH 093024.M Wed Oct 16 01:50:29 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067435.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 19:44
Operator : YP/AJ
Sample : P4397-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-301-BOT

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File: autoint1.e
Quant Time: Oct 15 04:32:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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...	12.940	4244377	37.497 ug/mlm
Spiked Amount 50.000		Recovery = 74.99%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

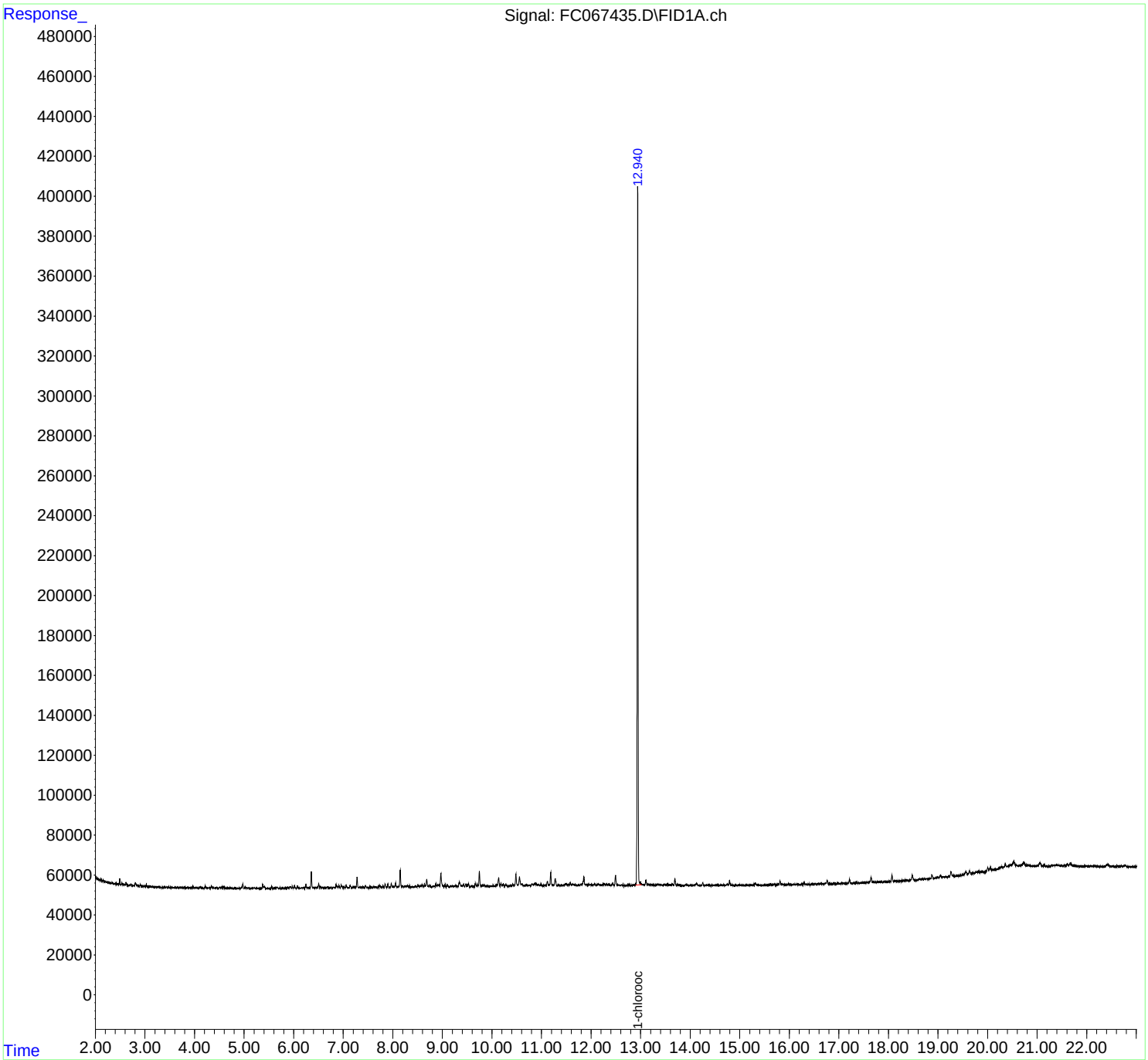
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067435.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 19:44
Operator : YP/AJ
Sample : P4397-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

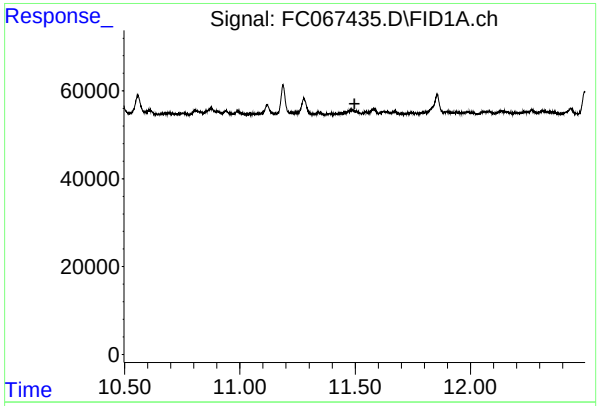
Instrument :
FID_C
ClientSampleId :
WB-301-BOT

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File: autoint1.e
Quant Time: Oct 15 04:32:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





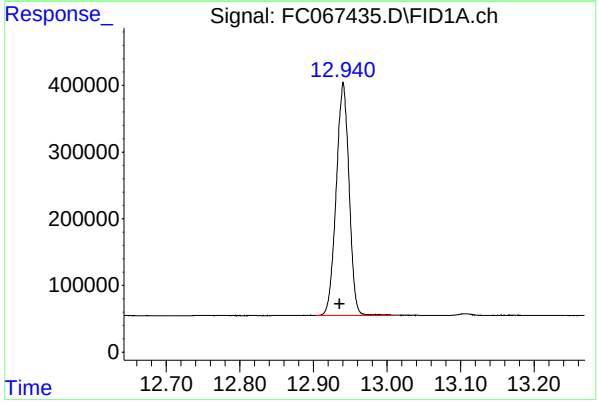
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.497 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-301-BOT

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024



#12 1-chlorooctadecane (SURR)

R.T.: 12.940 min
Delta R.T.: 0.004 min
Response: 4244377
Conc: 37.50 ug/ml m

12

Instrument :
FID_C
ClientSampleId :
WB-301-BOT

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10142
Data File : FC067435.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 19:44
Sample : P4397-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	6.356	6.305	6.404	BB	8197	89934	2.12%	1.720%
2	7.280	7.235	7.307	BB	5236	55561	1.31%	1.062%
3	8.150	8.100	8.182	BV	8350	94290	2.22%	1.803%
4	8.685	8.655	8.717	VV	3622	47911	1.13%	0.916%
5	8.971	8.887	9.025	VB	6524	115769	2.73%	2.214%
6	9.748	9.722	9.794	VB	7440	86505	2.04%	1.654%
7	10.136	9.992	10.162	BV	3785	60008	1.42%	1.147%
8	10.485	10.444	10.520	BV	5721	74265	1.75%	1.420%
9	10.557	10.520	10.584	PV	4015	58281	1.37%	1.114%
10	11.187	11.157	11.225	BB	6485	77498	1.83%	1.482%
11	11.278	11.234	11.322	BB	3402	50338	1.19%	0.962%
12	11.855	11.750	11.915	BB	4169	72040	1.70%	1.377%
13	12.495	12.465	12.539	BB	4972	64451	1.52%	1.232%
14	12.940	12.700	13.022	BB	349278	4239895	100.00%	81.068%
15	13.691	13.664	13.727	PB	3300	43326	1.02%	0.828%

Sum of corrected areas: 5230072

Aliphatic EPH 100224.M Tue Oct 15 05:44:02 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048510.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 04:22
Operator : YP/AJ
Sample : P4397-02
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-301-BOT

Integration File: autoint1.e
Quant Time: Oct 15 06:02:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 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...	7.374	6535426	39.473 ug/ml
Spiked Amount 50.000		Recovery =	78.95%
6) S 2-Flurobiphenyl (SURR)	8.224	4406588	42.492 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	84.98%
11) S ortho-Terphenyl (SURR)	11.261	4470809	24.298 ug/ml
Spiked Amount 50.000		Recovery =	48.60%
Target Compounds			

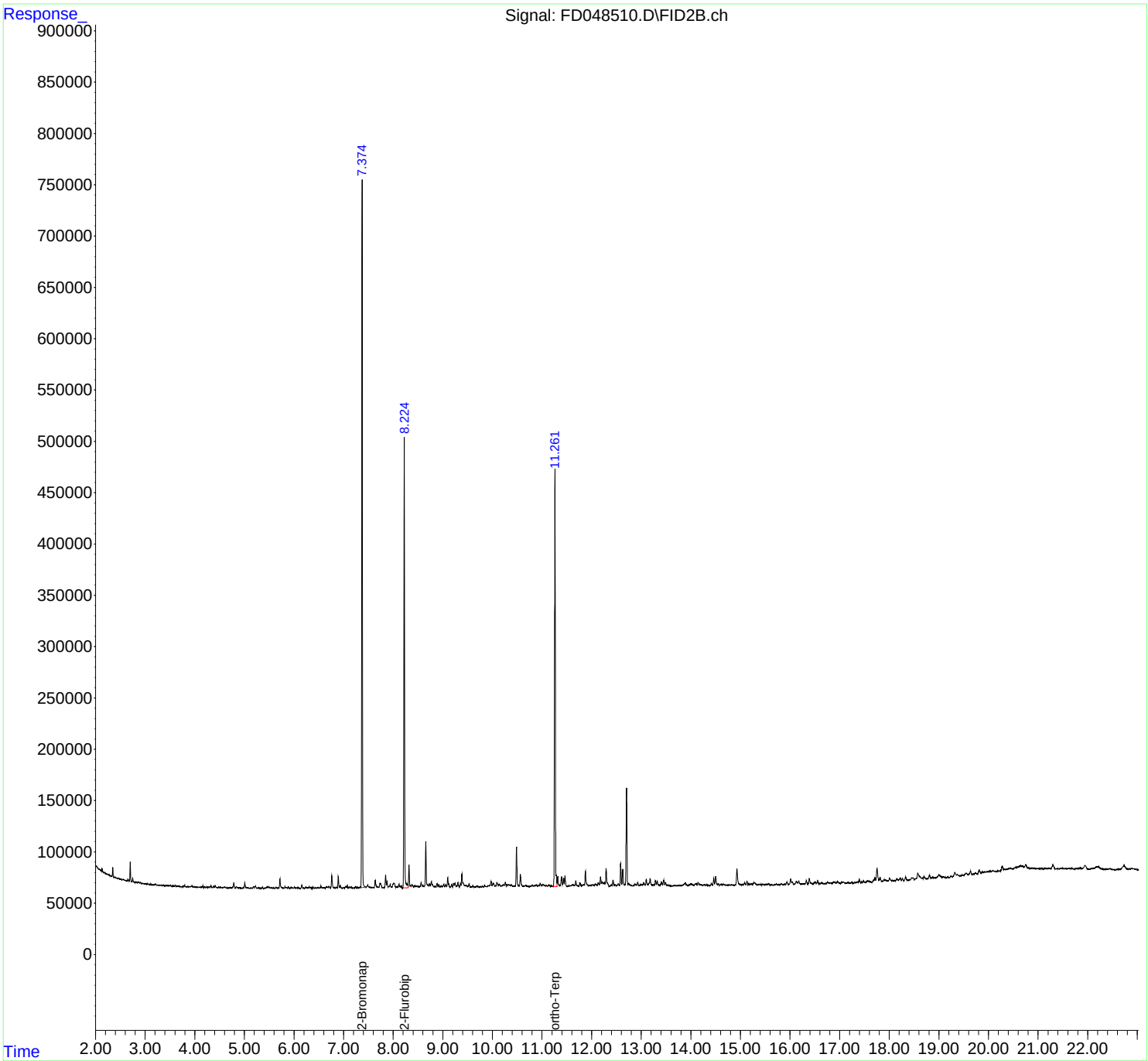
(f)=RT Delta > 1/2 Window (m)=manual int.

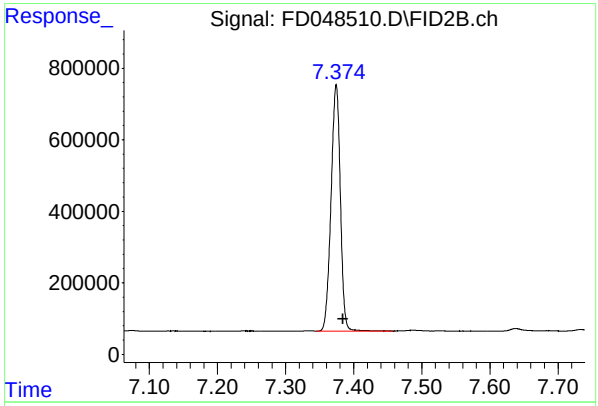
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048510.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 04:22
Operator : YP/AJ
Sample : P4397-02
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-301-BOT

Integration File: autoint1.e
Quant Time: Oct 15 06:02:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

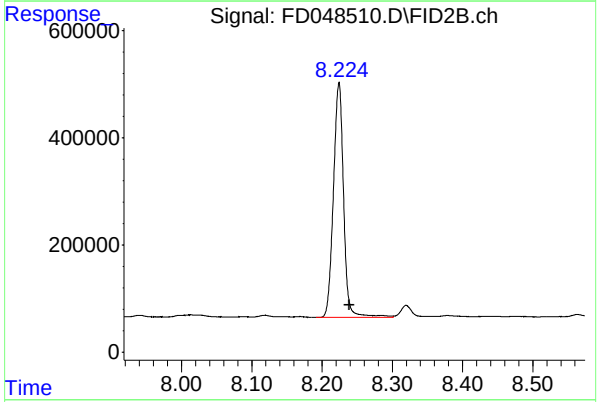




#4 2-Bromonaphthalene (SURR)

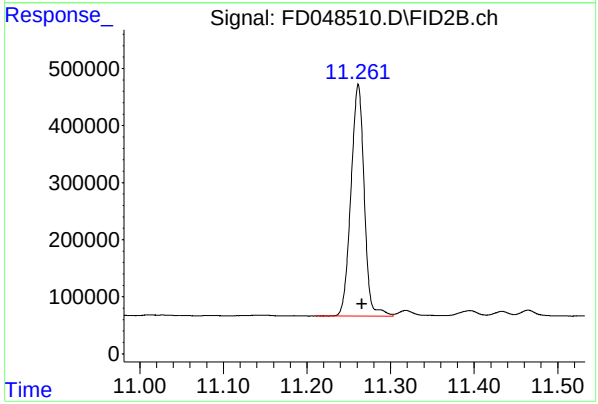
R.T.: 7.374 min
Delta R.T.: -0.010 min
Response: 6535426
Conc: 39.47 ug/ml

Instrument :
FID_D
ClientSampleId :
WB-301-BOT



#6 2-Flurobiphenyl (SURR)

R.T.: 8.224 min
Delta R.T.: -0.015 min
Response: 4406588
Conc: 42.49 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.261 min
Delta R.T.: -0.004 min
Response: 4470809
Conc: 24.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048510.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 04:22
Sample : P4397-02
Misc :
ALS Vial : 77 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.651	4.819	BV	4958	70894	1.08%	0.307%
2	5.008	4.989	5.094	VB	5426	73511	1.12%	0.318%
3	5.717	5.696	5.794	PV	9026	115699	1.77%	0.500%
4	6.158	6.128	6.208	BV	3546	44122	0.68%	0.191%
5	6.763	6.734	6.801	PV	12095	145443	2.23%	0.629%
6	6.894	6.870	6.921	PV	10889	108426	1.66%	0.469%
7	7.374	7.345	7.458	VV	689277	6535426	100.00%	28.259%
8	7.638	7.614	7.673	BV	7334	98643	1.51%	0.427%
9	7.734	7.708	7.794	VV	4396	99692	1.53%	0.431%
10	7.848	7.794	7.865	VV	12634	143933	2.20%	0.622%
11	7.877	7.865	7.899	VV	6271	69703	1.07%	0.301%
12	8.014	7.978	8.072	VV	4554	139161	2.13%	0.602%
13	8.224	8.191	8.301	PV	438947	4406588	67.43%	19.054%
14	8.320	8.301	8.348	VV	22211	246402	3.77%	1.065%
15	8.564	8.507	8.584	VV	5008	89691	1.37%	0.388%
16	8.659	8.620	8.707	VV	44673	517430	7.92%	2.237%
17	8.772	8.746	8.824	VV	5905	127227	1.95%	0.550%
18	8.886	8.863	8.904	VV	3912	50088	0.77%	0.217%
19	9.101	9.079	9.151	VV	9570	136262	2.08%	0.589%
20	9.219	9.198	9.233	VV	3559	42642	0.65%	0.184%
21	9.307	9.271	9.332	VV	4111	56821	0.87%	0.246%
22	9.385	9.332	9.448	PB	11899	195484	2.99%	0.845%
23	9.975	9.891	9.998	BV	4928	103278	1.58%	0.447%
24	10.016	9.998	10.049	VV	3326	51868	0.79%	0.224%
25	10.092	10.049	10.131	PV	3546	62487	0.96%	0.270%
26	10.261	10.234	10.280	VV	3174	35373	0.54%	0.153%
27	10.488	10.446	10.540	PV	38419	421453	6.45%	1.822%
28	10.565	10.540	10.644	VV	11548	150451	2.30%	0.651%
29	11.261	11.211	11.303	BV	405274	4470809	68.41%	19.332%
30	11.318	11.303	11.363	VV	9717	136103	2.08%	0.589%
31	11.395	11.363	11.415	VV	9599	146264	2.24%	0.632%
32	11.433	11.415	11.448	VV	8159	99094	1.52%	0.428%
33	11.465	11.448	11.518	VV	10341	132303	2.02%	0.572%
34	11.681	11.648	11.741	VV	5362	89716	1.37%	0.388%
35	11.763	11.741	11.804	VV	3615	62303	0.95%	0.269%
36	11.876	11.804	11.948	VV	14615	264329	4.04%	1.143%

rteres

37	12.180	12.153	12.198	VV	9073	127614	1.95%	0.552%
38	12.292	12.273	12.374	VB	17294	262226	4.01%	1.134%
39	12.431	12.410	12.455	VV	5695	71483	1.09%	0.309%
40	12.585	12.559	12.607	PV	21500	240273	3.68%	1.039%
41	12.627	12.607	12.668	VV	15761	189237	2.90%	0.818%
42	12.703	12.668	12.731	VV	94338	1119544	17.13%	4.841%
43	12.927	12.906	12.959	VV	3661	50221	0.77%	0.217%
44	13.102	13.079	13.134	VV	6224	85145	1.30%	0.368%
45	13.179	13.134	13.231	VV	6594	134791	2.06%	0.583%
46	13.287	13.264	13.306	VV	4861	63009	0.96%	0.272%
47	13.323	13.306	13.371	VV	4071	56874	0.87%	0.246%
48	13.407	13.371	13.429	PV	3417	45519	0.70%	0.197%
49	13.451	13.429	13.473	VV	4439	53483	0.82%	0.231%
50	14.460	14.436	14.480	PV	6824	78750	1.20%	0.341%
51	14.499	14.480	14.534	VV	8204	111216	1.70%	0.481%
52	14.928	14.881	15.024	BV	15978	284952	4.36%	1.232%
53	15.131	15.107	15.153	VV	3467	40901	0.63%	0.177%
54	16.011	15.971	16.030	BV	4070	45470	0.70%	0.197%
55	16.327	16.221	16.358	VV	3859	55751	0.85%	0.241%
56	16.387	16.358	16.459	VV	5327	96884	1.48%	0.419%
57	17.752	17.701	17.791	BV	10997	174374	2.67%	0.754%

Sum of corrected areas: 23126831

Aromatic EPH 093024.M Tue Oct 15 07:49:32 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067430.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 16:38
Operator : YP/AJ
Sample : PB164109BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164109BL

Integration File: autoint1.e
Quant Time: Oct 15 04:31:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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...	12.941	4378021	38.677 ug/ml
Spiked Amount 50.000		Recovery = 77.35%	
Target Compounds			

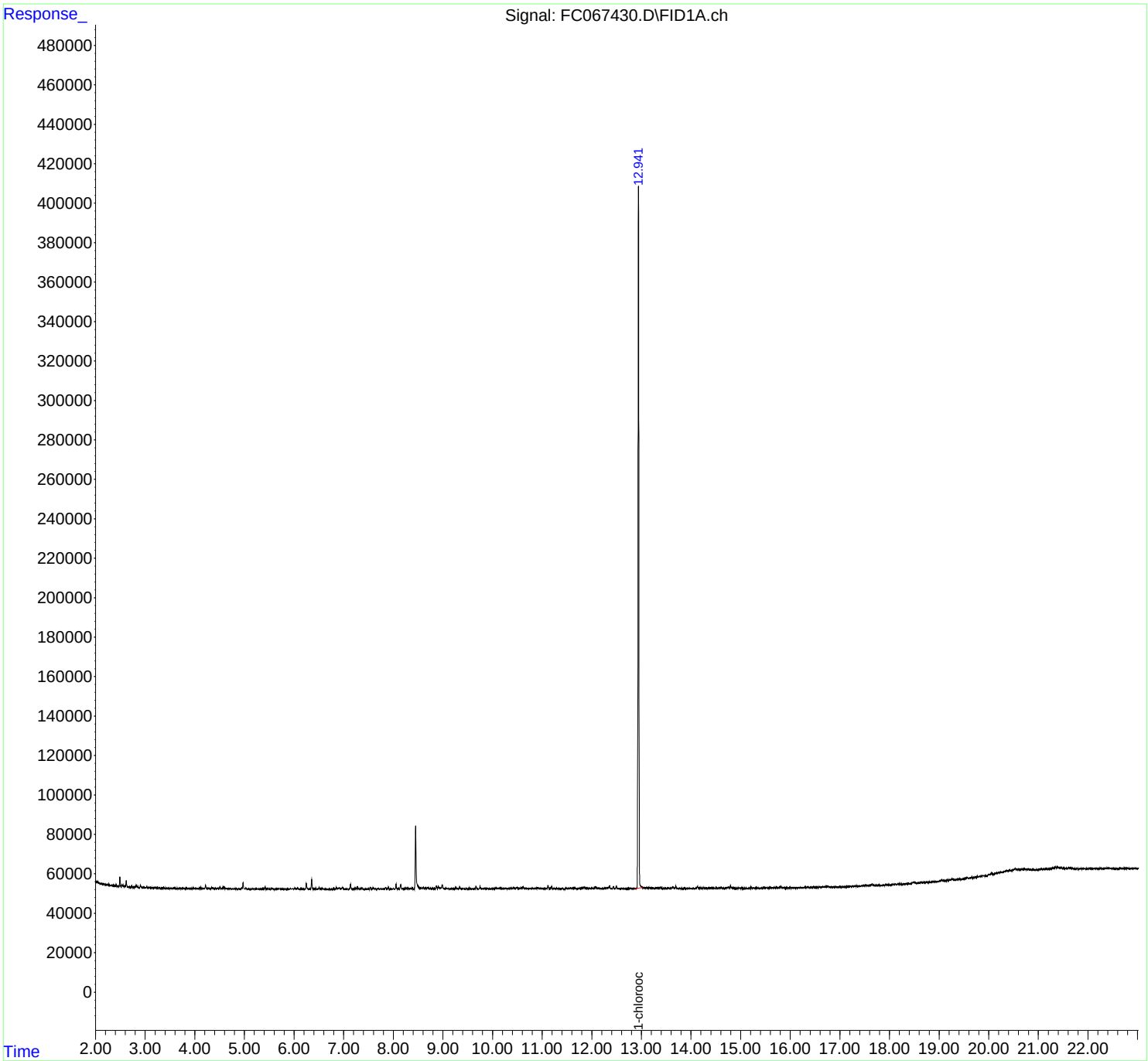
(f)=RT Delta > 1/2 Window (m)=manual int.

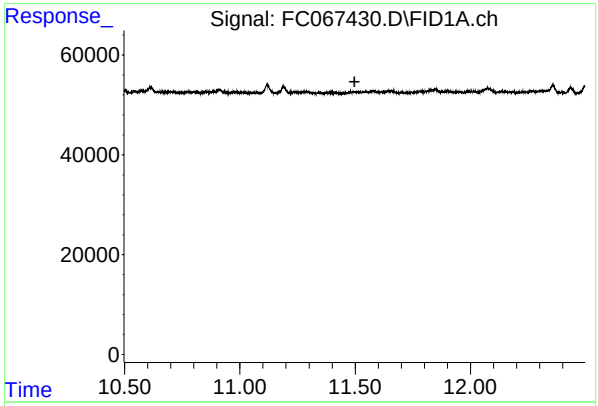
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067430.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 16:38
Operator : YP/AJ
Sample : PB164109BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164109BL

Integration File: autoint1.e
Quant Time: Oct 15 04:31:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

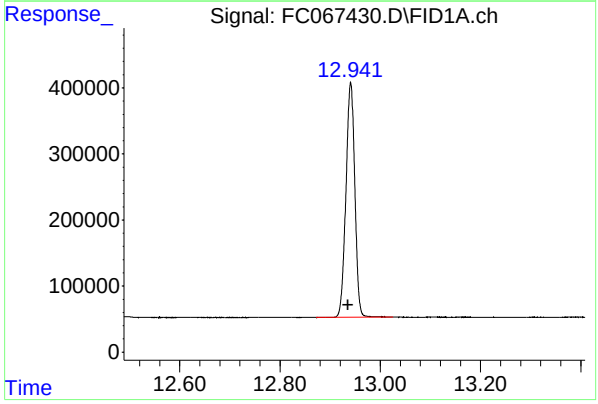




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.497 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB164109BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.941 min
Delta R.T.: 0.005 min
Response: 4378021
Conc: 38.68 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067430.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 16:38
Sample : PB164109BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	12.941	12.872	13.025	BB	355006	4378021	100.00%	100.000%
			Sum of corrected areas:			4378021		

Aliphatic EPH 100224.M Tue Oct 15 05:42:06 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048505.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 00:02
Operator : YP/AJ
Sample : PB164109BL
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164109BL

Integration File: autoint1.e
Quant Time: Oct 15 06:02:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 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...	7.379	8673557	52.387 ug/ml
Spiked Amount 50.000		Recovery = 104.77%	
6) S 2-Flurobiphenyl (SURR)	8.228	5252190	50.646 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 101.29%	
11) S ortho-Terphenyl (SURR)	11.267	8651846	47.022 ug/ml
Spiked Amount 50.000		Recovery = 94.04%	
Target Compounds			

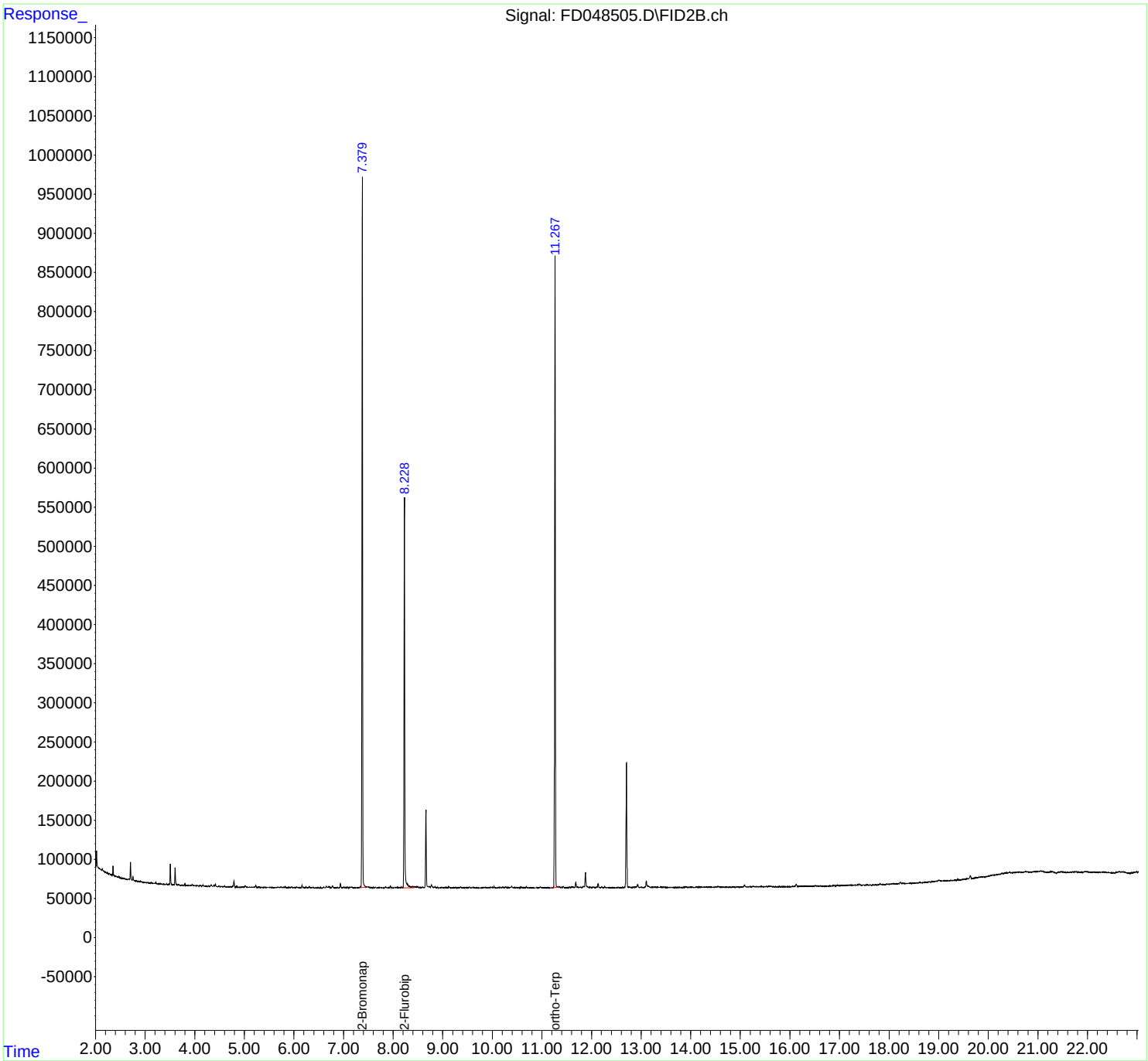
(f)=RT Delta > 1/2 Window (m)=manual int.

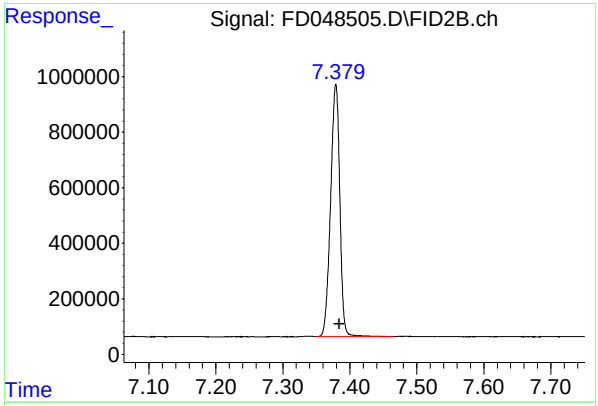
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048505.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 00:02
Operator : YP/AJ
Sample : PB164109BL
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164109BL

Integration File: autoint1.e
Quant Time: Oct 15 06:02:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

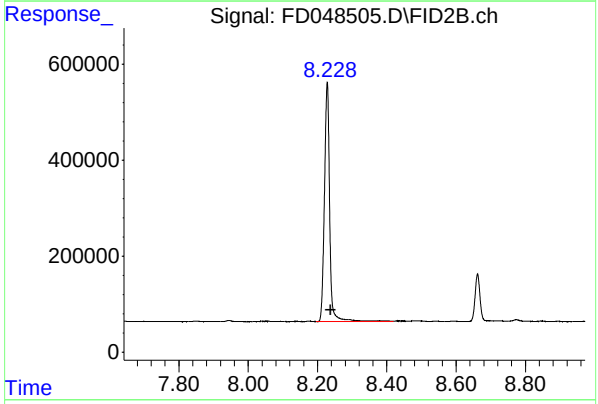




#4 2-Bromonaphthalene (SURR)

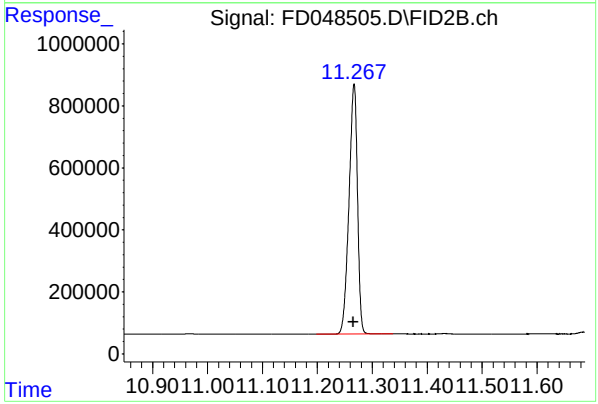
R.T.: 7.379 min
Delta R.T.: -0.005 min
Response: 8673557
Conc: 52.39 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164109BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.228 min
Delta R.T.: -0.011 min
Response: 5252190
Conc: 50.65 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.267 min
Delta R.T.: 0.001 min
Response: 8651846
Conc: 47.02 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048505.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 00:02
Sample : PB164109BL
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	7.379	7.350	7.464	VV	900577	8673557	100.00%	38.417%
2	8.228	8.196	8.418	PV	497539	5252190	60.55%	23.263%
3	11.267	11.198	11.338	BV	816168	8651846	99.75%	38.320%
			Sum of corrected areas:			22577594		

Aromatic EPH 093024.M Tue Oct 15 07:45:34 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067431.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 17:15
Operator : YP/AJ
Sample : PB164109BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164109BS

Integration File: autoint1.e
Quant Time: Oct 15 04:31:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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...	12.941	3920928	34.639	ug/ml
Spiked Amount	50.000		Recovery =	69.28%	
	Target Compounds				
1) T	n-Nonane (C9)	3.276	2995742	23.633	ug/ml
2) T	n-Decane (C10)	4.341	3775912	29.375	ug/ml
4) T	n-Dodecane (C12)	6.358	4654298	35.868	ug/ml
6) T	n-Tetradecane (C14)	8.151	5214980	40.490	ug/ml
7) T	n-Hexadecane (C16)	9.751	5458391	41.004	ug/ml
8) T	n-Octadecane (C18)	11.191	5588397	41.212	ug/ml
10) T	n-Eicosane (C20)	12.499	5649826	43.271	ug/ml
11) T	n-Heneicosane (C21)	13.111	5434311	42.371	ug/ml
13) T	n-Docosane (C22)	13.696	5400564	42.295	ug/ml
14) T	n-Tetracosane (C24)	14.798	5310949	41.527	ug/ml
15) T	n-Hexacosane (C26)	15.817	5214931	41.360	ug/ml
16) T	n-Octacosane (C28)	16.766	5138908	40.905	ug/ml
17) T	n-Tricontane (C30)	17.653	5162295	40.072	ug/ml
18) T	n-Dotriacontane (C32)	18.484	5134298	41.098	ug/ml
19) T	n-Tetratriacontane (C34)	19.267	5131530	46.959	ug/ml
20) T	n-Hexatriacontane (C36)	20.006	5078849	53.734	ug/ml
21) T	n-Octatriacontane (C38)	20.732	5119291	58.373	ug/ml
22) T	n-Tetracontane (C40)	21.623	5110938	59.396	ug/ml

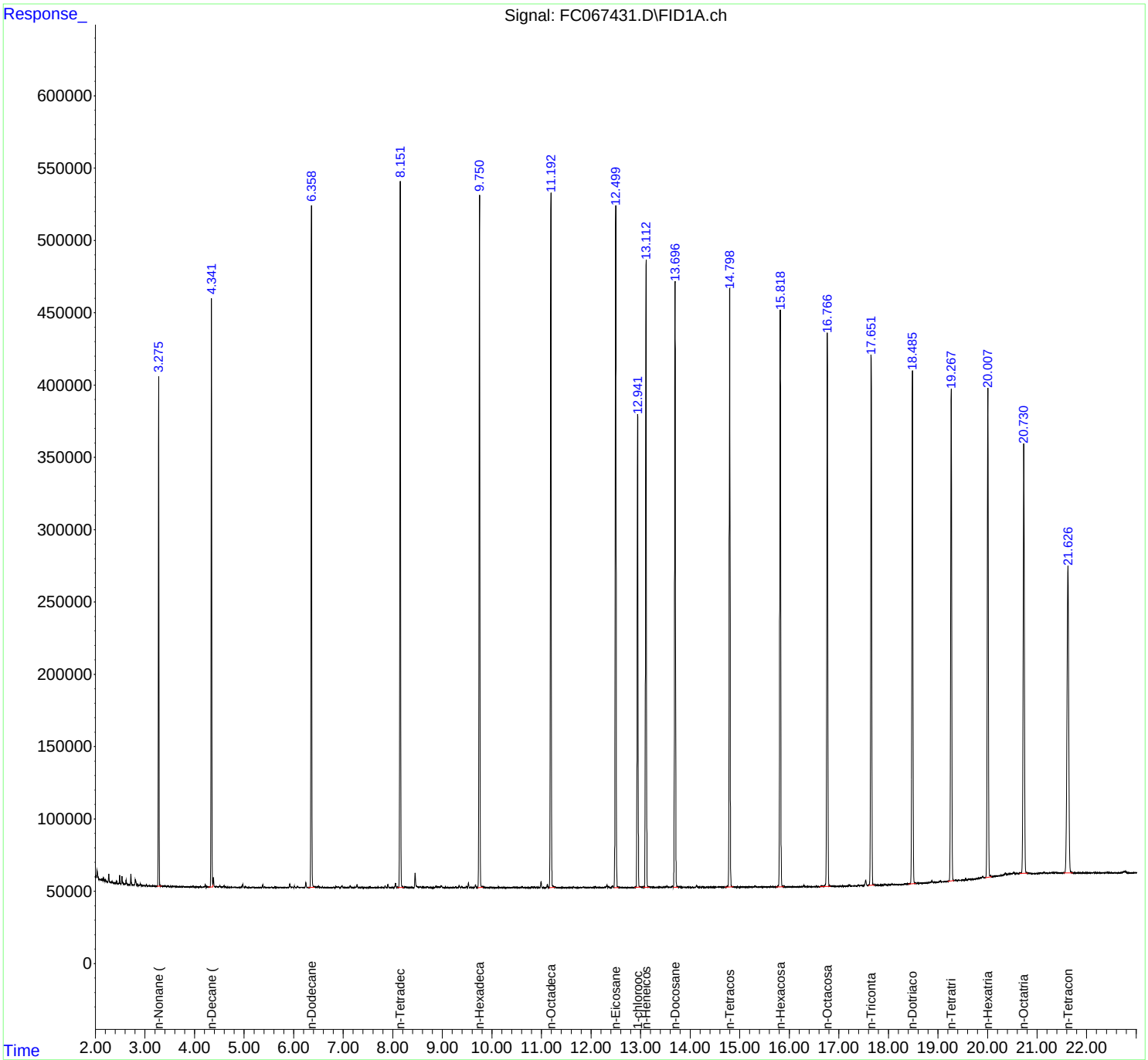
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067431.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 17:15
Operator : YP/AJ
Sample : PB164109BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164109BS

Integration File: autoint1.e
Quant Time: Oct 15 04:31:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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\FC101424AL\
Data File : FC067431.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 17:15
Sample : PB164109BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.245	3.335	BB	352188	2995742	53.02%	3.170%
2	4.341	4.287	4.368	BV	408577	3775912	66.83%	3.996%
3	6.358	6.292	6.422	BB	473101	4654298	82.38%	4.925%
4	8.151	8.088	8.223	BB	489170	5214980	92.30%	5.519%
5	9.751	9.712	9.823	BB	475908	5458391	96.61%	5.776%
6	11.191	11.157	11.272	BB	472485	5588397	98.91%	5.914%
7	12.499	12.458	12.567	PB	467370	5649826	100.00%	5.979%
8	12.941	12.873	12.998	BB	328366	3920928	69.40%	4.149%
9	13.111	13.043	13.180	BB	430419	5434311	96.19%	5.751%
10	13.696	13.657	13.763	VB	418202	5400564	95.59%	5.715%
11	14.798	14.707	14.863	BB	407507	5310949	94.00%	5.620%
12	15.817	15.730	15.885	BB	394584	5214931	92.30%	5.519%
13	16.766	16.607	16.833	BB	381794	5138908	90.96%	5.438%
14	17.653	17.587	17.720	BB	363617	5162295	91.37%	5.463%
15	18.484	18.403	18.552	BB	353165	5134298	90.88%	5.433%
16	19.267	19.195	19.328	BB	338398	5131530	90.83%	5.430%
17	20.006	19.950	20.088	BB	336273	5078849	89.89%	5.375%
18	20.732	20.645	20.817	BB	293671	5119291	90.61%	5.418%
19	21.623	21.533	21.722	BB	212277	5110938	90.46%	5.409%
			Sum of corrected areas:			94495338		

Aliphatic EPH 100224.M Tue Oct 15 05:42:29 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048506.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 00:39
Operator : YP/AJ
Sample : PB164109BS
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164109BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

Integration File: autoint1.e
Quant Time: Oct 15 06:02:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 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...	7.378	7909909	47.774 ug/ml
	Spiked Amount 50.000		Recovery = 95.55%	
6)	S 2-Flurobiphenyl (SURR)	8.229	5220465	50.340 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 100.68%	
11)	S ortho-Terphenyl (SURR)	11.267	7694917	41.821 ug/ml
	Spiked Amount 50.000		Recovery = 83.64%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.200	5853250	33.398 ug/ml
2)	T Naphthalene (C11.7)	5.718	6798292	36.410 ug/ml
3)	T 2-Methylnaphthalene (...	6.765	6874022	36.373 ug/ml
5)	T Acenaphthylene (C15.06)	8.032	7454668	38.858 ug/ml
7)	T Acenaphthene (C15.5)	8.327	7843811	41.467 ug/ml
8)	T Flouorene (C16.55)	9.106	7926725	43.873 ug/ml
9)	T Phenanthrene (C19.36)	10.493	7941057	44.806 ug/ml
10)	T Anthracene (C19.43)	10.570	8046601	45.221 ug/ml
12)	T Fluoranthene (C21.85)	12.299	8028761	44.389 ug/mlm
13)	T Pyrene (C20.8)	12.593	8305053	46.379 ug/ml
14)	T Benzo[a]anthracene (C...	14.463	7373670	46.139 ug/ml
15)	T Chrysene (C27.41)	14.505	7477263	40.087 ug/ml
16)	T benzo[b]fluoranthene ...	16.010	7268974	43.647 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.045	7200782	42.420 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.386	6948811	42.515 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.754	7302059	55.512 ug/ml
20)	T Dibenz[a,h]anthracene...	17.791	6962617	41.609 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.005	6672732	41.082 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

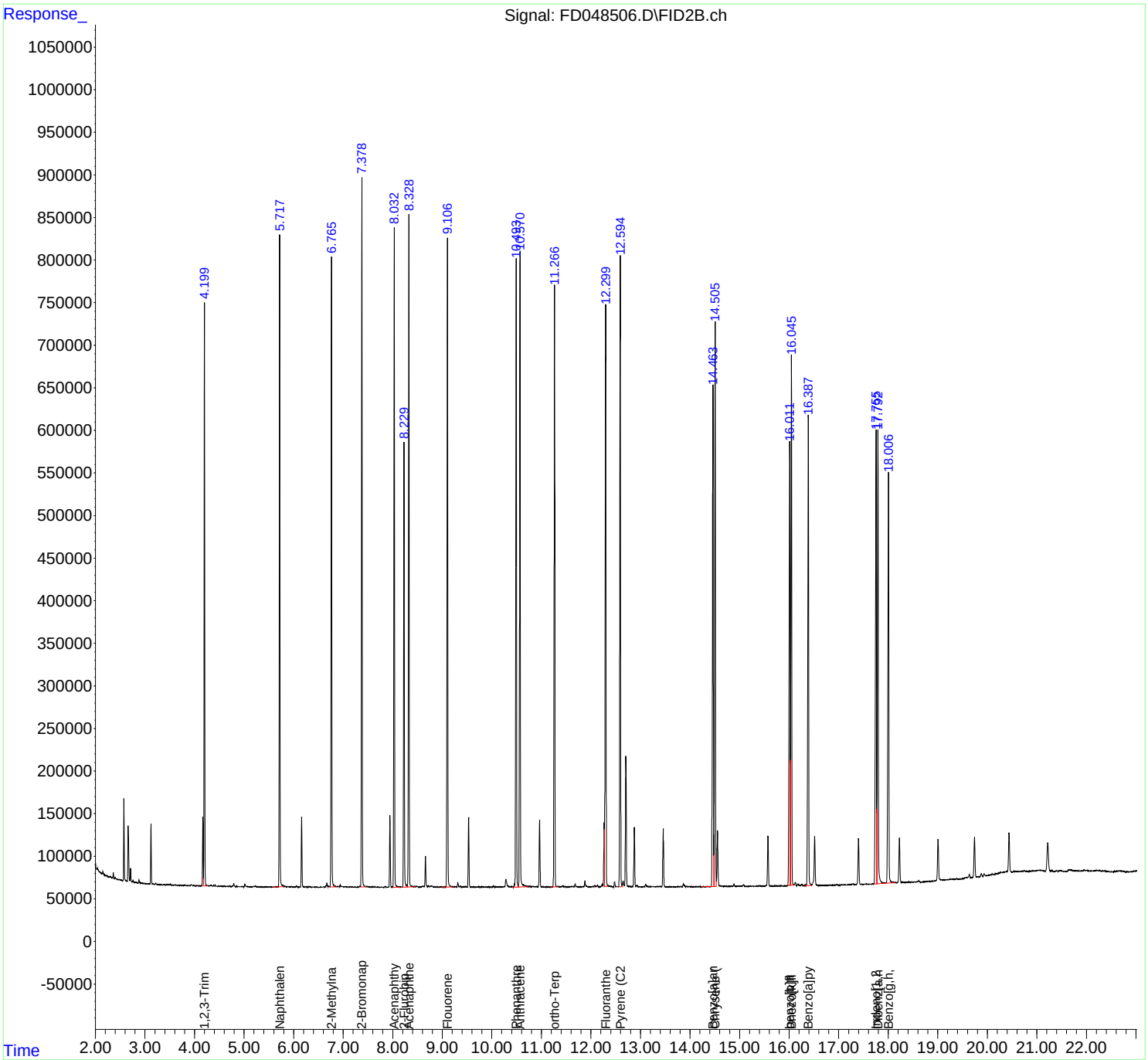
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048506.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 00:39
Operator : YP/AJ
Sample : PB164109BS
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 15 06:02:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 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 :
PB164109BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024



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Instrument :
FID_D
ClientSampleId :
PB164109BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10142
Data File : FD048506.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 00:39
Sample : PB164109BS
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.200	4.181	4.264	VV	677645	5853250	66.87%	3.805%
2	5.718	5.578	5.810	BV	764575	6798292	77.67%	4.419%
3	6.765	6.731	6.871	VV	736354	6874022	78.53%	4.469%
4	7.378	7.351	7.468	VV	826874	7909909	90.36%	5.142%
5	8.032	8.001	8.154	VV	765228	7454668	85.16%	4.846%
6	8.229	8.193	8.298	PV	516783	5220465	59.64%	3.394%
7	8.327	8.298	8.461	VV	791495	7843811	89.61%	5.099%
8	9.106	8.981	9.234	BB	751775	7926725	90.56%	5.153%
9	10.494	10.414	10.538	PV	747661	7941057	90.72%	5.162%
10	10.570	10.538	10.748	VV	751994	8046601	91.93%	5.231%
11	11.267	11.184	11.334	BB	709827	7694917	87.91%	5.002%
12	12.299	12.241	12.424	VV	679976	8753322	100.00%	5.690%
13	12.593	12.558	12.631	BV	747704	8305053	94.88%	5.399%
14	14.463	14.224	14.481	BV	578252	7373670	84.24%	4.793%
15	14.505	14.481	14.531	VV	651700	7477263	85.42%	4.861%
16	16.010	15.971	16.025	BV	524854	7268974	83.04%	4.725%
17	16.045	16.025	16.098	VV	620752	7200782	82.26%	4.681%
18	16.386	16.311	16.458	BV	563444	6948811	79.38%	4.517%
19	17.754	17.701	17.769	BV	535919	7302059	83.42%	4.747%
20	17.791	17.769	17.944	VV	529541	6962617	79.54%	4.526%
21	18.005	17.944	18.141	VB	476134	6672732	76.23%	4.338%

Sum of corrected areas: 153829001

Aromatic EPH 093024.M Tue Oct 15 07:46:22 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067432.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 17:53
Operator : YP/AJ
Sample : PB164109BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164109BSD

Integration File: autoint1.e
Quant Time: Oct 15 04:31:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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...	12.941	4085608	36.094 ug/ml
Spiked Amount	50.000		Recovery =	72.19%
	Target Compounds			
1) T	n-Nonane (C9)	3.276	2973962	23.462 ug/ml
2) T	n-Decane (C10)	4.342	3748394	29.161 ug/ml
4) T	n-Dodecane (C12)	6.358	4609969	35.526 ug/ml
6) T	n-Tetradecane (C14)	8.152	5155285	40.026 ug/ml
7) T	n-Hexadecane (C16)	9.751	5382602	40.435 ug/ml
8) T	n-Octadecane (C18)	11.191	5510263	40.636 ug/ml
10) T	n-Eicosane (C20)	12.499	5569732	42.657 ug/ml
11) T	n-Heneicosane (C21)	13.109	5358142	41.777 ug/ml
13) T	n-Docosane (C22)	13.696	5327107	41.720 ug/ml
14) T	n-Tetracosane (C24)	14.798	5244161	41.005 ug/ml
15) T	n-Hexacosane (C26)	15.817	5162572	40.945 ug/ml
16) T	n-Octacosane (C28)	16.765	5099233	40.590 ug/ml
17) T	n-Tricontane (C30)	17.654	5141668	39.912 ug/ml
18) T	n-Dotriacontane (C32)	18.485	5130885	41.071 ug/ml
19) T	n-Tetratriacontane (C34)	19.267	5135466	46.995 ug/ml
20) T	n-Hexatriacontane (C36)	20.006	5082810	53.776 ug/ml
21) T	n-Octatriacontane (C38)	20.731	5123039	58.416 ug/ml
22) T	n-Tetracontane (C40)	21.622	5117339	59.471 ug/ml

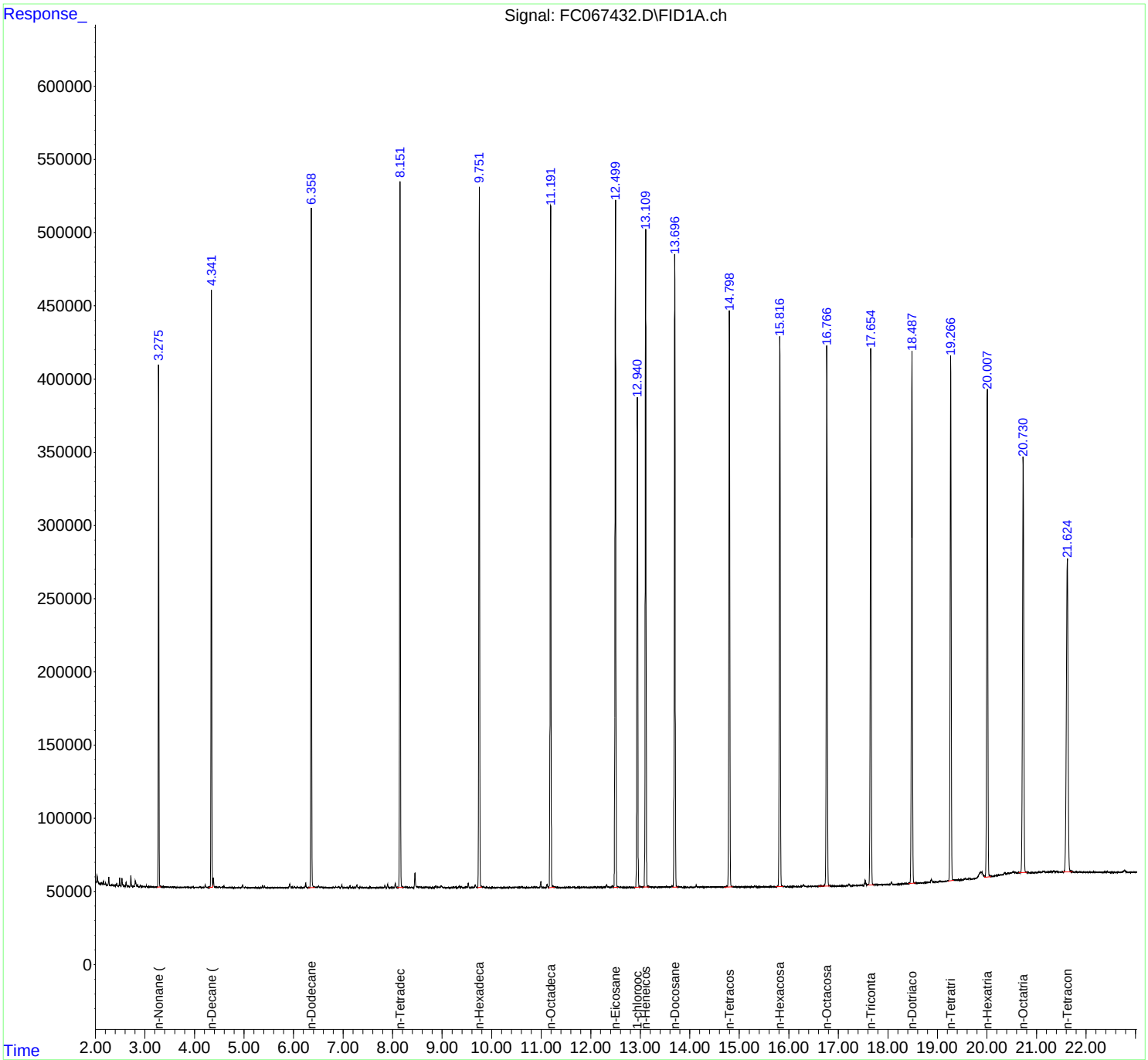
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067432.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 17:53
Operator : YP/AJ
Sample : PB164109BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164109BSD

Integration File: autoint1.e
Quant Time: Oct 15 04:31:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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\FC101424AL\
Data File : FC067432.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 17:53
Sample : PB164109BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.245	3.323	BB	355237	2973962	53.40%	3.165%
2	4.342	4.283	4.368	BV	408644	3748394	67.30%	3.989%
3	6.358	6.292	6.425	BB	464815	4609969	82.77%	4.906%
4	8.152	8.090	8.220	BB	481941	5155285	92.56%	5.487%
5	9.751	9.713	9.808	BB	479041	5382602	96.64%	5.729%
6	11.191	11.153	11.272	BB	465057	5510263	98.93%	5.865%
7	12.499	12.455	12.557	PB	465056	5569732	100.00%	5.928%
8	12.941	12.877	13.005	BB	334134	4085608	73.35%	4.348%
9	13.109	13.045	13.182	BB	440711	5358142	96.20%	5.703%
10	13.696	13.657	13.767	VB	430753	5327107	95.64%	5.670%
11	14.798	14.705	14.865	BB	392183	5244161	94.15%	5.581%
12	15.817	15.732	15.885	BB	374108	5162572	92.69%	5.495%
13	16.765	16.597	16.833	BB	365811	5099233	91.55%	5.427%
14	17.654	17.587	17.722	BB	364284	5141668	92.31%	5.472%
15	18.485	18.415	18.560	BB	359124	5130885	92.12%	5.461%
16	19.267	19.215	19.332	BB	355346	5135466	92.20%	5.466%
17	20.007	19.955	20.083	VB	331249	5082810	91.26%	5.410%
18	20.731	20.645	20.812	BB	278500	5123039	91.98%	5.452%
19	21.622	21.528	21.732	BB	213024	5117339	91.88%	5.446%
			Sum of corrected areas:			93958235		

Aliphatic EPH 100224.M Tue Oct 15 05:42:58 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048507.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 01:17
Operator : YP/AJ
Sample : PB164109BSD
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 15 06:02:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 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 :
PB164109BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.378	7923978	47.859 ug/ml
Spiked Amount	50.000		Recovery =	95.72%
6) S	2-Flurobiphenyl (SURR)	8.229	5224281	50.377 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	100.75%
11) S	ortho-Terphenyl (SURR)	11.266	7750803	42.125 ug/ml
Spiked Amount	50.000		Recovery =	84.25%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.199	5878933	33.545 ug/ml
2) T	Naphthalene (C11.7)	5.717	6807369	36.459 ug/ml
3) T	2-Methylnaphthalene (...	6.765	6878593	36.397 ug/ml
5) T	Acenaphthylene (C15.06)	8.031	7444078	38.803 ug/ml
7) T	Acenaphthene (C15.5)	8.327	7839300	41.444 ug/ml
8) T	Flouorene (C16.55)	9.106	7969822	44.112 ug/ml
9) T	Phenanthrene (C19.36)	10.494	7976313	45.005 ug/ml
10) T	Anthracene (C19.43)	10.570	8076141	45.387 ug/ml
12) T	Fluoranthene (C21.85)	12.299	8013647	44.305 ug/mlm
13) T	Pyrene (C20.8)	12.593	8351742	46.640 ug/ml
14) T	Benzo[a]anthracene (C...	14.462	7437285	46.537 ug/ml
15) T	Chrysene (C27.41)	14.506	7529202	40.365 ug/ml
16) T	benzo[b]fluoranthene ...	16.010	7292285	43.787 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.045	7290415	42.948 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.387	7001803	42.839 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.754	7356701	55.928 ug/ml
20) T	Dibenz[a,h]anthracene...	17.792	7025640	41.986 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.005	6694344	41.215 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

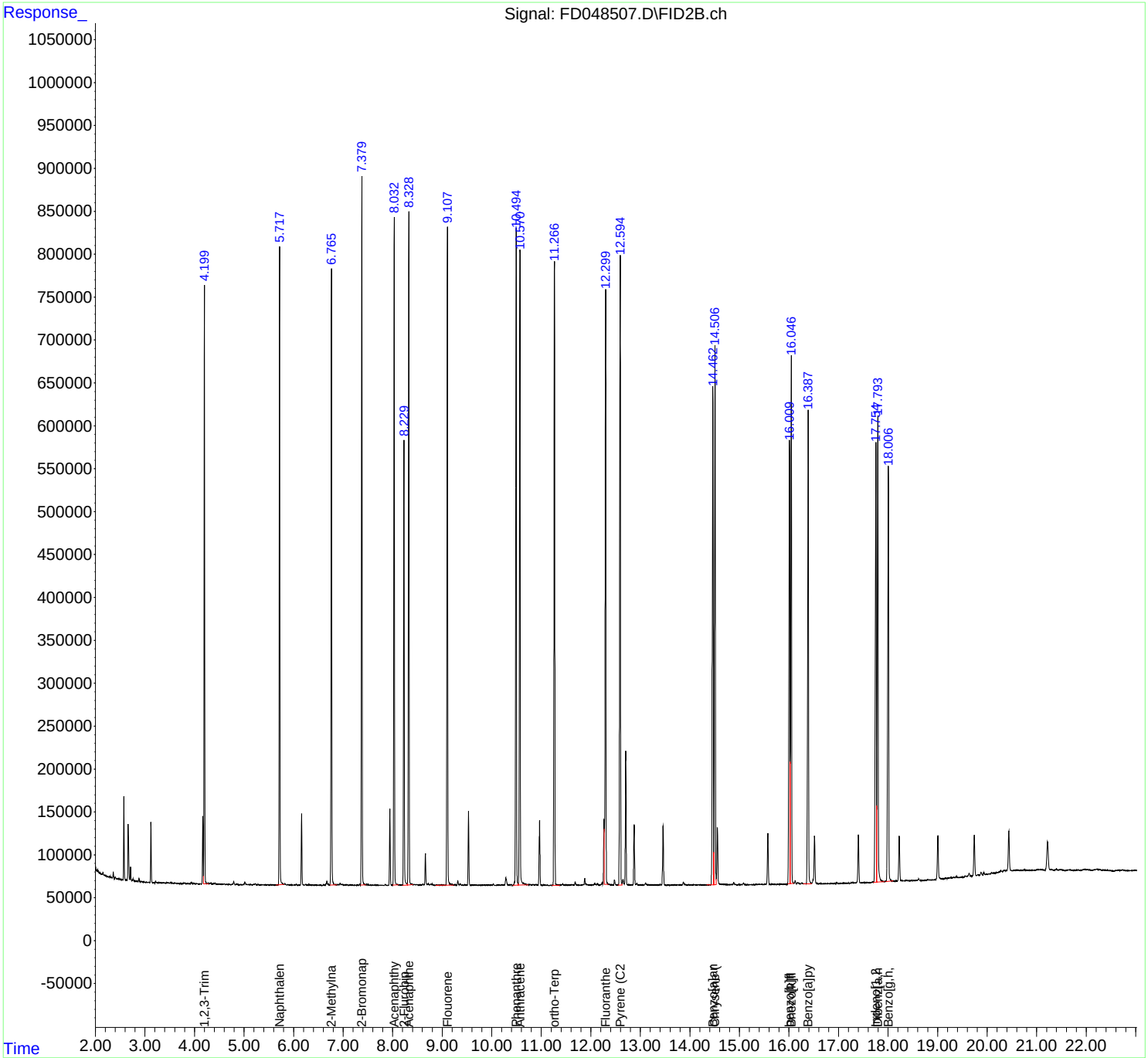
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048507.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 01:17
Operator : YP/AJ
Sample : PB164109BSD
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 15 06:02:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 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 :
PB164109BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024



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Instrument :
FID_D
ClientSampleId :
PB164109BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10142
Data File : FD048507.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 01:17
Sample : PB164109BSD
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.199	4.181	4.291	VB	687569	5878933	66.93%	3.804%
2	5.717	5.645	5.808	BV	744785	6807369	77.50%	4.405%
3	6.765	6.730	6.875	PV	717233	6878593	78.31%	4.451%
4	7.378	7.351	7.461	PV	821536	7923978	90.21%	5.128%
5	8.031	8.001	8.115	PV	774931	7444078	84.75%	4.817%
6	8.229	8.195	8.298	BV	517262	5224281	59.48%	3.381%
7	8.327	8.298	8.415	VV	789396	7839300	89.25%	5.073%
8	9.106	8.868	9.238	BB	785487	7969822	90.73%	5.157%
9	10.494	10.419	10.535	PV	772275	7976313	90.81%	5.162%
10	10.570	10.535	10.741	VB	751885	8076141	91.94%	5.226%
11	11.266	11.211	11.371	BV	725723	7750803	88.24%	5.016%
12	12.299	12.241	12.441	VB	683994	8783767	100.00%	5.684%
13	12.593	12.545	12.630	PV	747558	8351742	95.08%	5.405%
14	14.462	14.338	14.481	BV	575662	7437285	84.67%	4.813%
15	14.506	14.481	14.531	VV	626361	7529202	85.72%	4.872%
16	16.010	15.971	16.025	BV	515734	7292285	83.02%	4.719%
17	16.045	16.025	16.100	VV	612637	7290415	83.00%	4.718%
18	16.387	16.295	16.455	BV	560933	7001803	79.71%	4.531%
19	17.754	17.701	17.769	BV	514612	7356701	83.75%	4.761%
20	17.792	17.769	17.928	VB	538765	7025640	79.98%	4.546%
21	18.005	17.951	18.101	BB	477788	6694344	76.21%	4.332%

Sum of corrected areas: 154532796

Aromatic EPH 093024.M Tue Oct 15 07:47:07 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067437.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 20:58
Operator : YP/AJ
Sample : P4397-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File: autoint1.e
Quant Time: Oct 15 04:32:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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...	12.940	3732729	32.976 ug/mlm
Spiked Amount	50.000		Recovery =	65.95%
	Target Compounds			
1) T	n-Nonane (C9)	3.276	3314148	26.145 ug/ml
2) T	n-Decane (C10)	4.341	4101308	31.906 ug/ml
4) T	n-Dodecane (C12)	6.358	4791271	36.924 ug/ml
6) T	n-Tetradecane (C14)	8.151	5327662	41.365 ug/ml
7) T	n-Hexadecane (C16)	9.750	5553837	41.721 ug/ml
8) T	n-Octadecane (C18)	11.190	5678086	41.873 ug/ml
10) T	n-Eicosane (C20)	12.498	5687603	43.560 ug/ml
11) T	n-Heneicosane (C21)	13.110	5433216	42.362 ug/ml
13) T	n-Docosane (C22)	13.695	5402653	42.312 ug/ml
14) T	n-Tetracosane (C24)	14.797	5290906	41.370 ug/ml
15) T	n-Hexacosane (C26)	15.816	5214633	41.358 ug/ml
16) T	n-Octacosane (C28)	16.764	5137842	40.897 ug/ml
17) T	n-Tricontane (C30)	17.652	5174619	40.168 ug/ml
18) T	n-Dotriacontane (C32)	18.483	5155375	41.267 ug/ml
19) T	n-Tetratriacontane (C34)	19.266	5174893	47.356 ug/ml
20) T	n-Hexatriacontane (C36)	20.005	5137568	54.356 ug/ml
21) T	n-Octatriacontane (C38)	20.731	5203317	59.331 ug/ml
22) T	n-Tetracontane (C40)	21.619	5212805	60.580 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

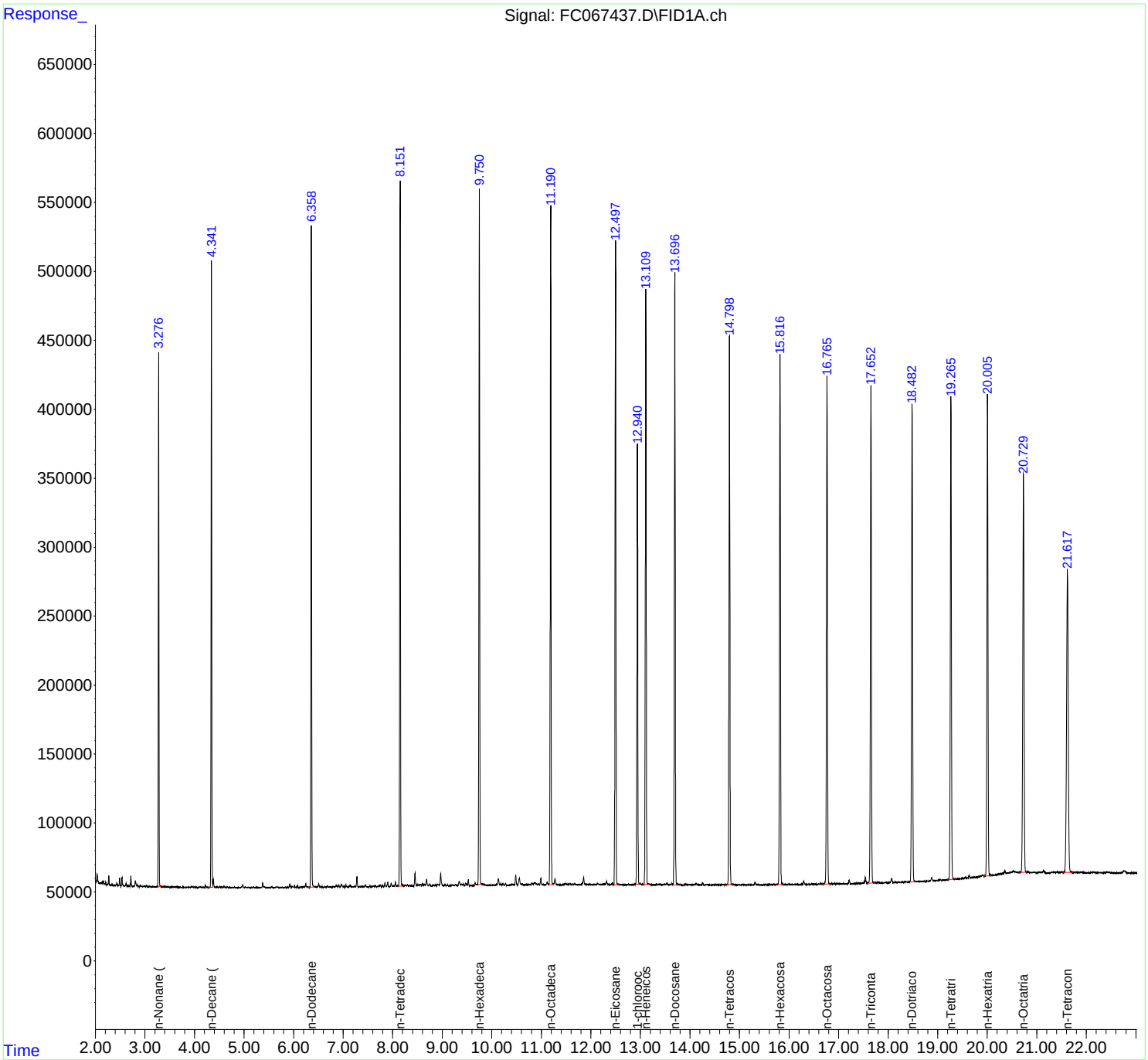
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067437.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 20:58
Operator : YP/AJ
Sample : P4397-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File: autoint1.e
Quant Time: Oct 15 04:32:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



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Instrument :
FID_C
ClientSampleId :
WB-301-BOTMS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10142
Data File : FC067437.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 20:58
Sample : P4397-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.245	3.327	BB	387902	3314148	58.27%	3.424%
2	4.341	4.283	4.368	BV	453665	4101308	72.11%	4.238%
3	4.381	4.368	4.427	VB	5747	58456	1.03%	0.060%
4	5.375	5.322	5.432	BB	3483	47922	0.84%	0.050%
5	6.358	6.293	6.427	BB	481006	4791271	84.24%	4.951%
6	7.279	7.222	7.303	BB	7583	80814	1.42%	0.084%
7	7.901	7.870	7.922	VV	3416	39129	0.69%	0.040%
8	8.151	8.087	8.220	BV	513393	5327662	93.67%	5.505%
9	8.451	8.412	8.487	BV	9329	105268	1.85%	0.109%
10	8.685	8.652	8.713	VV	4620	60841	1.07%	0.063%
11	8.970	8.882	9.020	VB	8862	140783	2.48%	0.145%
12	9.527	9.507	9.555	BB	3972	40538	0.71%	0.042%
13	9.750	9.690	9.800	VB	504338	5553837	97.65%	5.738%
14	10.134	9.975	10.162	BV	4552	68912	1.21%	0.071%
15	10.485	10.442	10.525	BV	7301	89583	1.58%	0.093%
16	10.557	10.525	10.587	PB	4822	72339	1.27%	0.075%
17	10.991	10.970	11.025	BV	4752	55397	0.97%	0.057%
18	11.190	11.153	11.248	BV	492499	5678086	99.83%	5.867%
19	11.277	11.248	11.313	VB	4174	65466	1.15%	0.068%
20	11.855	11.695	11.883	BB	5260	83265	1.46%	0.086%
21	12.498	12.458	12.578	PB	463966	5687603	100.00%	5.877%
22	12.940	12.710	12.980	BV	319031	3729606	65.57%	3.854%
23	13.110	13.048	13.170	BB	428254	5433216	95.53%	5.614%
24	13.695	13.656	13.760	PB	442474	5402653	94.99%	5.582%
25	14.797	14.700	14.867	BB	399023	5290906	93.03%	5.467%
26	15.816	15.735	15.902	BB	384860	5214633	91.68%	5.388%
27	16.764	16.677	16.842	BB	368962	5137842	90.33%	5.309%
28	17.539	17.482	17.577	BB	3784	52729	0.93%	0.054%
29	17.652	17.585	17.722	BB	360551	5174619	90.98%	5.347%
30	18.483	18.430	18.558	BB	346263	5155375	90.64%	5.327%
31	19.266	19.188	19.333	BB	347427	5174893	90.99%	5.347%
32	20.005	19.943	20.090	BB	347104	5137568	90.33%	5.308%
33	20.731	20.650	20.812	BB	287576	5203317	91.49%	5.376%
34	21.619	21.518	21.733	BB	217831	5212805	91.65%	5.386%
			Sum of corrected areas:			96782787		

Page 1

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Instrument :
FID_C
ClientSampleId :
WB-301-BOTMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

A B C D E F G H I J

rteres
Aliphatic EPH 100224.M Tue Oct 15 05:44:22 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048512.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 05:35
Operator : YP/AJ
Sample : P4397-02MS
Misc :
ALS Vial : 79 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

Integration File: autoint1.e
Quant Time: Oct 15 07:37:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 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...	7.378	7777959	46.977 ug/ml
Spiked Amount	50.000		Recovery =	93.95%
6) S	2-Flurobiphenyl (SURR)	8.228	5123618	49.406 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	98.81%
11) S	ortho-Terphenyl (SURR)	11.264	5525403	30.030 ug/ml
Spiked Amount	50.000		Recovery =	60.06%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.199	5595167	31.926 ug/ml
2) T	Naphthalene (C11.7)	5.717	6446889	34.528 ug/ml
3) T	2-Methylnaphthalene (...	6.764	6418715	33.963 ug/ml
5) T	Acenaphthylene (C15.06)	8.030	6877882	35.852 ug/ml
7) T	Acenaphthene (C15.5)	8.326	7352530	38.870 ug/ml
8) T	Flouorene (C16.55)	9.104	7303607	40.424 ug/ml
9) T	Phenanthrene (C19.36)	10.493	7715115	43.532 ug/ml
10) T	Anthracene (C19.43)	10.568	7384351	41.499 ug/ml
12) T	Fluoranthene (C21.85)	12.298	7458759	41.237 ug/mlm
13) T	Pyrene (C20.8)	12.592	7738696	43.216 ug/ml
14) T	Benzo[a]anthracene (C...	14.461	6732081	42.124 ug/ml
15) T	Chrysene (C27.41)	14.504	6808999	36.504 ug/ml
16) T	benzo[b]fluoranthene ...	16.009	6592635	39.586 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.043	6500637	38.296 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.385	6346760	38.832 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.753	6928126	52.669 ug/ml
20) T	Dibenz[a,h]anthracene...	17.790	6315167	37.740 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.003	6100579	37.559 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

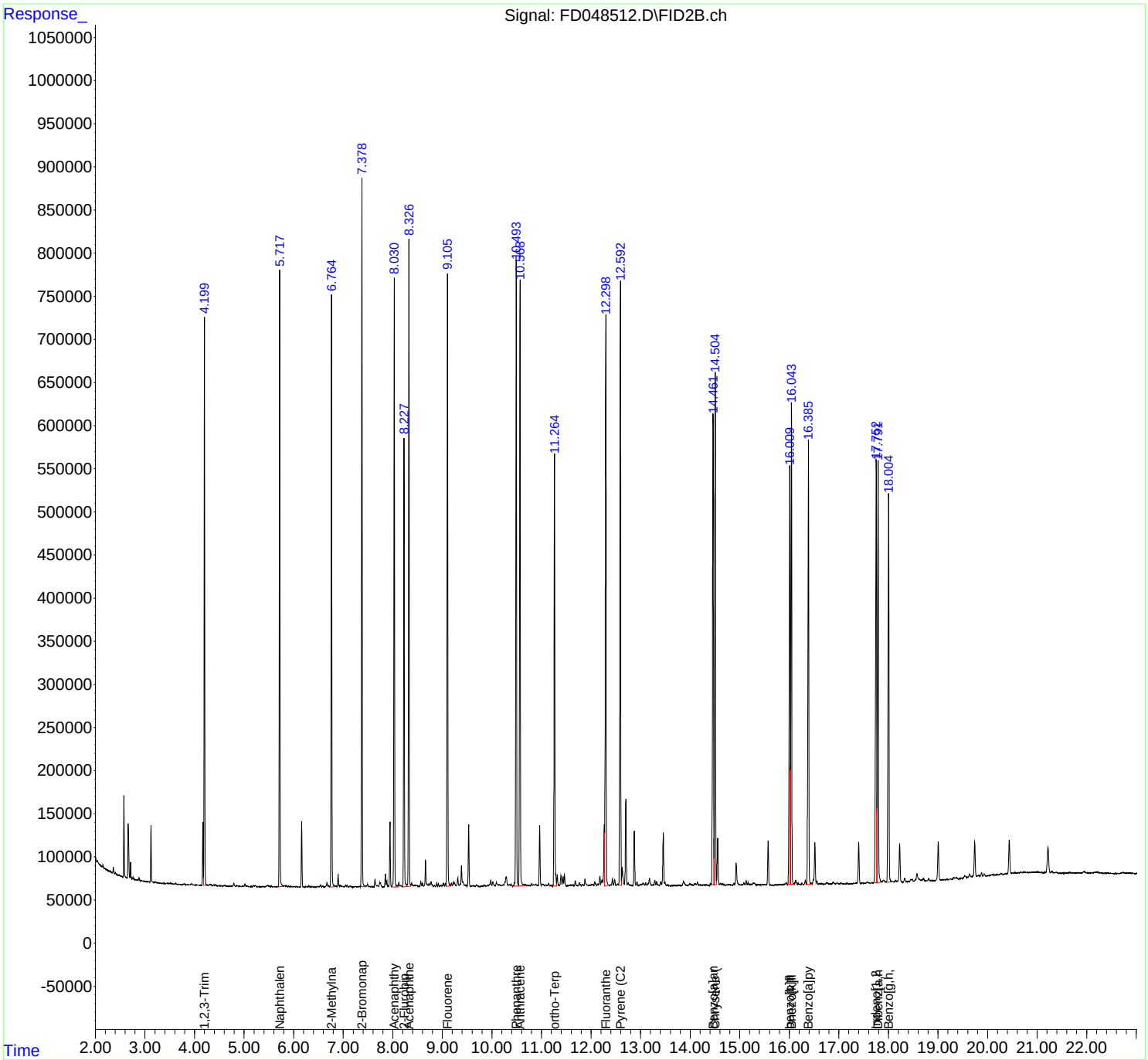
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048512.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 05:35
Operator : YP/AJ
Sample : P4397-02MS
Misc :
ALS Vial : 79 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 15 07:37:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 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-301-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024



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Instrument :
FID_D
ClientSampleId :
WB-301-BOTMS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10142
Data File : FD048512.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 05:35
Sample : P4397-02MS
Misc :
ALS Vial : 79 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.168	4.144	4.180	BV	73203	626487	7.70%	0.401%
2	4.199	4.180	4.264	VV	650883	5595167	68.74%	3.579%
3	4.792	4.731	4.825	BV	3788	52076	0.64%	0.033%
4	5.717	5.661	5.800	PV	715774	6446889	79.21%	4.124%
5	6.162	6.118	6.208	BV	75630	719290	8.84%	0.460%
6	6.672	6.624	6.692	BV	4971	67726	0.83%	0.043%
7	6.764	6.730	6.841	VV	686816	6418715	78.86%	4.106%
8	6.897	6.874	6.924	PV	13283	135932	1.67%	0.087%
9	7.378	7.347	7.464	PV	820076	7777959	95.56%	4.975%
10	7.641	7.614	7.677	BV	8386	114217	1.40%	0.073%
11	7.737	7.713	7.796	VV	5241	115201	1.42%	0.074%
12	7.851	7.796	7.868	PV	14993	165885	2.04%	0.106%
13	7.879	7.868	7.901	VV	7565	81278	1.00%	0.052%
14	7.945	7.901	7.978	VV	75441	782286	9.61%	0.500%
15	8.030	7.978	8.104	VV	708132	6877882	84.50%	4.399%
16	8.121	8.104	8.161	VV	5012	76697	0.94%	0.049%
17	8.228	8.194	8.277	PV	521573	5123618	62.95%	3.277%
18	8.326	8.277	8.368	VV	755203	7352530	90.33%	4.703%
19	8.381	8.368	8.418	VV	3433	48479	0.60%	0.031%
20	8.566	8.548	8.586	BV	5464	60451	0.74%	0.039%
21	8.662	8.624	8.711	VV	30914	366331	4.50%	0.234%
22	8.775	8.750	8.824	VV	5490	105474	1.30%	0.067%
23	8.888	8.864	8.905	PV	4276	45690	0.56%	0.029%
24	8.921	8.905	8.944	VV	3478	33449	0.41%	0.021%
25	9.024	8.987	9.042	VV	3901	55922	0.69%	0.036%
26	9.060	9.042	9.073	VV	3471	35156	0.43%	0.022%
27	9.104	9.073	9.161	VV	707262	7303607	89.73%	4.672%
28	9.182	9.161	9.201	VV	3535	44642	0.55%	0.029%
29	9.222	9.201	9.236	VV	4589	52942	0.65%	0.034%
30	9.312	9.274	9.341	PV	9348	115863	1.42%	0.074%
31	9.387	9.341	9.471	VB	23081	330507	4.06%	0.211%
32	9.532	9.474	9.571	BV	70842	771879	9.48%	0.494%
33	9.978	9.894	10.000	BV	6784	140020	1.72%	0.090%
34	10.018	10.000	10.051	VV	5158	80685	0.99%	0.052%
35	10.093	10.051	10.128	VV	4430	92527	1.14%	0.059%
36	10.287	10.243	10.337	VV	10484	282694	3.47%	0.181%

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Instrument :
FID_D
ClientSampleId :
WB-301-BOTMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

A B C D E F G H I J

rteres

37	10.493	10.414	10.534	PV	715575	7715115	94.79%	4.935%
38	10.568	10.534	10.701	VV	694679	7384351	90	
39	10.965	10.935	10.997	PV	69270	770398	9	
40	11.264	11.214	11.305	BV	502743	5525403	67	
41	11.320	11.305	11.368	VV	13364	165073	2	
42	11.395	11.368	11.416	VV	12143	178580	2	
43	11.434	11.416	11.449	VV	10905	125818	1.55%	0.080%
44	11.465	11.449	11.514	VV	13103	168224	2.07%	0.108%
45	11.683	11.651	11.738	VV	5818	88088	1.08%	0.056%
46	11.763	11.738	11.802	PV	4011	62229	0.76%	0.040%
47	11.878	11.858	11.924	VV	7496	114371	1.41%	0.073%
48	12.074	12.054	12.115	VV	4573	74393	0.91%	0.048%
49	12.180	12.155	12.199	VV	10916	144190	1.77%	0.092%
50	12.223	12.199	12.239	VV	6817	114617	1.41%	0.073%
51	12.297	12.239	12.368	VV	662902	8139182	100.00%	5.206%
52	12.431	12.411	12.453	VV	7719	86595	1.06%	0.055%
53	12.476	12.453	12.504	VV	7256	96087	1.18%	0.061%
54	12.592	12.553	12.614	VV	694089	7738696	95.08%	4.950%
55	12.630	12.614	12.671	VV	20467	312567	3.84%	0.200%
56	12.704	12.671	12.731	VV	99732	1173353	14.42%	0.751%
57	12.874	12.834	12.907	BV	63449	736630	9.05%	0.471%
58	12.928	12.907	12.964	VV	4597	58434	0.72%	0.037%
59	13.179	13.130	13.228	VV	8306	158856	1.95%	0.102%
60	13.287	13.266	13.306	VV	6157	71465	0.88%	0.046%
61	13.323	13.306	13.381	VV	4467	59607	0.73%	0.038%
62	13.408	13.381	13.427	PV	3611	41771	0.51%	0.027%
63	13.457	13.427	13.482	PV	59472	709227	8.71%	0.454%
64	13.864	13.788	13.948	BV	4928	120452	1.48%	0.077%
65	14.146	14.125	14.169	VV	3566	46642	0.57%	0.030%
66	14.461	14.423	14.480	PV	547951	6732081	82.71%	4.306%
67	14.504	14.480	14.530	VV	596759	6808999	83.66%	4.355%
68	14.554	14.530	14.588	VV	53769	694488	8.53%	0.444%
69	14.927	14.900	15.021	VB	24754	391003	4.80%	0.250%
70	15.130	15.107	15.152	PV	4606	53605	0.66%	0.034%
71	15.572	15.515	15.604	VV	51319	656640	8.07%	0.420%
72	16.009	15.971	16.024	BV	481736	6592635	81.00%	4.217%
73	16.043	16.024	16.098	VV	549725	6500637	79.87%	4.158%
74	16.127	16.098	16.161	VV	4918	86717	1.07%	0.055%
75	16.321	16.291	16.343	PV	5005	61617	0.76%	0.039%
76	16.385	16.343	16.459	VV	505786	6346760	77.98%	4.060%
77	16.515	16.459	16.542	VV	48333	700294	8.60%	0.448%
78	16.557	16.542	16.591	VV	3768	49069	0.60%	0.031%
79	17.399	17.308	17.451	VV	47858	643079	7.90%	0.411%
80	17.753	17.701	17.768	BV	487164	6928126	85.12%	4.432%
81	17.790	17.768	17.863	VV	490416	6315167	77.59%	4.039%
82	18.003	17.961	18.104	PV	454206	6100579	74.95%	3.902%

Sum of corrected areas: 156338064

Aromatic EPH 093024.M Tue Oct 15 07:49:49 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067438.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 21:35
Operator : YP/AJ
Sample : P4397-02MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File: autoint1.e
Quant Time: Oct 15 04:32:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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...	12.940	3859946	34.100 ug/mlm
Spiked Amount	50.000		Recovery =	68.20%
	Target Compounds			
1) T	n-Nonane (C9)	3.276	3331529	26.282 ug/ml
2) T	n-Decane (C10)	4.342	4112515	31.993 ug/ml
4) T	n-Dodecane (C12)	6.358	4803756	37.020 ug/ml
6) T	n-Tetradecane (C14)	8.151	5349492	41.534 ug/ml
7) T	n-Hexadecane (C16)	9.750	5588084	41.978 ug/ml
8) T	n-Octadecane (C18)	11.191	5727459	42.237 ug/ml
10) T	n-Eicosane (C20)	12.499	5740423	43.964 ug/ml
11) T	n-Heneicosane (C21)	13.110	5477882	42.710 ug/ml
13) T	n-Docosane (C22)	13.695	5452436	42.701 ug/ml
14) T	n-Tetracosane (C24)	14.796	5340520	41.758 ug/ml
15) T	n-Hexacosane (C26)	15.816	5259717	41.715 ug/ml
16) T	n-Octacosane (C28)	16.765	5172046	41.169 ug/ml
17) T	n-Tricontane (C30)	17.652	5205404	40.407 ug/ml
18) T	n-Dotriacontane (C32)	18.484	5174428	41.419 ug/ml
19) T	n-Tetratriacontane (C34)	19.267	5194139	47.532 ug/ml
20) T	n-Hexatriacontane (C36)	20.005	5181927	54.825 ug/ml
21) T	n-Octatriacontane (C38)	20.731	5226241	59.592 ug/ml
22) T	n-Tetracontane (C40)	21.618	5254376	61.063 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

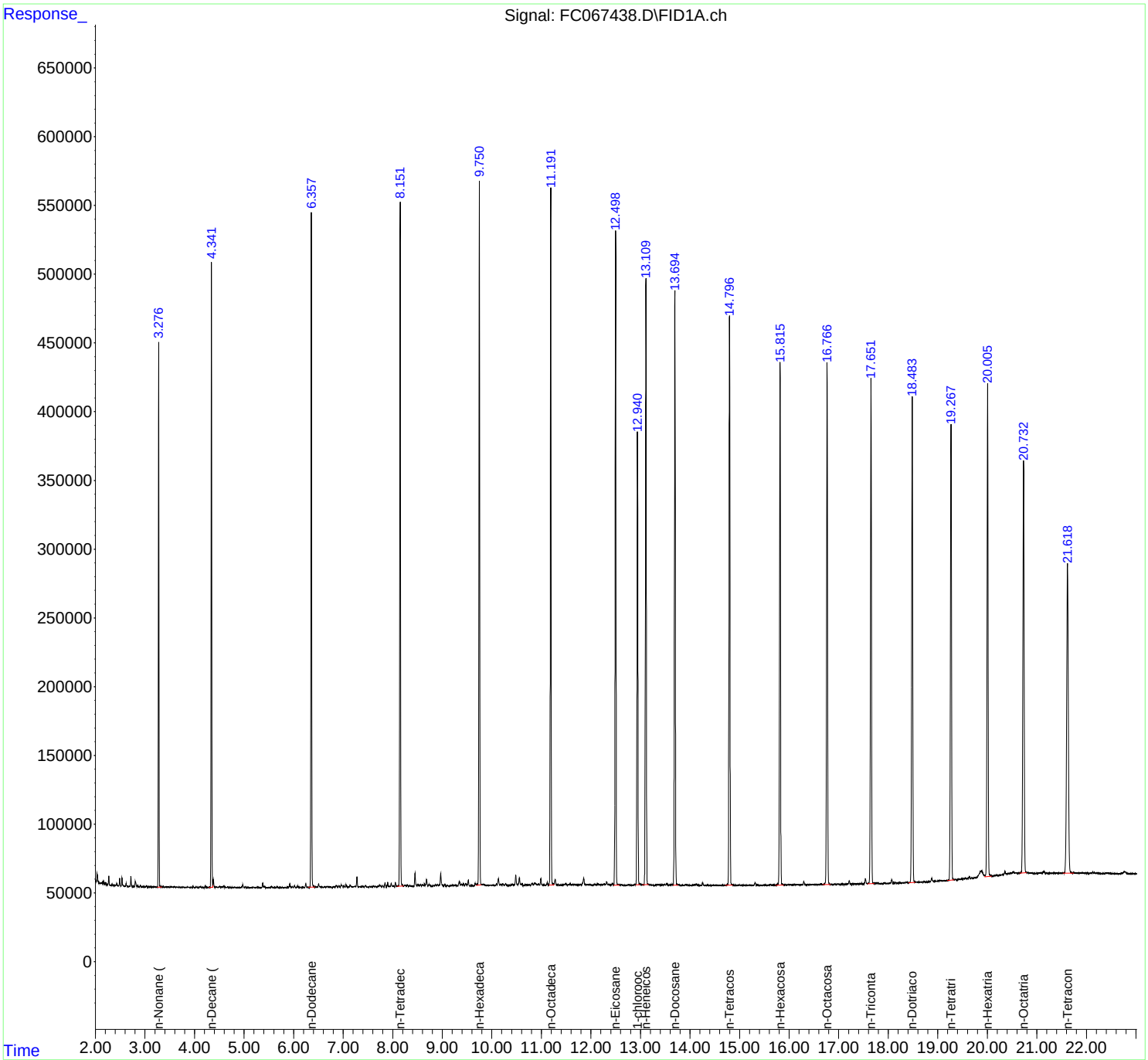
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101424AL\
Data File : FC067438.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 21:35
Operator : YP/AJ
Sample : P4397-02MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Integration File: autoint1.e
Quant Time: Oct 15 04:32:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



12

Instrument :
FID_C
ClientSampleId :
WB-301-BOTMSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

A B C D E F G H I J

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10142
Data File : FC067438.D
Signal(s) : FID1A.ch
Acq On : 14 Oct 2024 21:35
Sample : P4397-02MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.245	3.340	BB	396747	3331529	58.04%	3.409%
2	4.342	4.284	4.368	BV	456183	4112515	71.64%	4.208%
3	4.382	4.368	4.427	VB	5879	59406	1.03%	0.061%
4	5.376	5.334	5.434	BB	3440	47027	0.82%	0.048%
5	6.358	6.304	6.434	BB	488952	4803756	83.68%	4.915%
6	7.279	7.204	7.307	BB	7490	83044	1.45%	0.085%
7	7.900	7.869	7.925	VV	3352	39902	0.70%	0.041%
8	8.151	8.090	8.224	BV	496068	5349492	93.19%	5.474%
9	8.451	8.419	8.485	BV	9381	105815	1.84%	0.108%
10	8.684	8.650	8.710	VV	4697	60284	1.05%	0.062%
11	8.970	8.886	9.024	VB	9038	139069	2.42%	0.142%
12	9.527	9.509	9.552	BB	3940	40988	0.71%	0.042%
13	9.750	9.687	9.794	VB	514691	5588084	97.35%	5.718%
14	10.134	9.977	10.160	BV	4681	68203	1.19%	0.070%
15	10.485	10.447	10.527	BV	7007	92741	1.62%	0.095%
16	10.557	10.527	10.587	PB	5030	73117	1.27%	0.075%
17	10.991	10.965	11.027	BB	4833	56688	0.99%	0.058%
18	11.191	11.152	11.252	VV	501589	5727459	99.77%	5.860%
19	11.280	11.252	11.324	VB	4214	65743	1.15%	0.067%
20	11.856	11.697	11.887	BB	5031	80119	1.40%	0.082%
21	12.499	12.455	12.577	PB	474054	5740423	100.00%	5.874%
22	12.940	12.700	12.975	BV	328741	3838540	66.87%	3.928%
23	13.110	13.037	13.169	BB	439805	5477882	95.43%	5.605%
24	13.695	13.657	13.759	PB	429781	5452436	94.98%	5.579%
25	14.796	14.709	14.864	BB	415737	5340520	93.03%	5.464%
26	15.816	15.732	15.892	BB	377829	5259717	91.63%	5.382%
27	16.765	16.680	16.837	BB	376035	5172046	90.10%	5.292%
28	17.539	17.479	17.570	BB	3466	49740	0.87%	0.051%
29	17.652	17.585	17.720	BB	363864	5205404	90.68%	5.326%
30	18.484	18.409	18.552	BB	351987	5174428	90.14%	5.294%
31	19.267	19.189	19.329	BB	330632	5194139	90.48%	5.315%
32	19.876	19.752	19.950	BV	4522	241443	4.21%	0.247%
33	20.005	19.950	20.094	VB	357862	5181927	90.27%	5.302%
34	20.731	20.650	20.797	BB	296482	5226241	91.04%	5.347%
35	21.618	21.524	21.745	BB	225571	5254376	91.53%	5.376%

Sum of corrected areas: 97734240

Page 1

Instrument :
FID_C
ClientSampleId :
WB-301-BOTMSD

rteres

Aliphatic EPH 100224.M Tue Oct 15 05:44:31 2024

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/15/2024
Supervised By :Ankita Jodhani 10/15/2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048513.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 06:12
Operator : YP/AJ
Sample : P4397-02MSD
Misc :
ALS Vial : 80 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

Integration File: autoint1.e
Quant Time: Oct 15 07:37:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 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...	7.377	7244608	43.756 ug/ml
Spiked Amount	50.000		Recovery =	87.51%
6) S	2-Flurobiphenyl (SURR)	8.228	4767531	45.972 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	91.94%
11) S	ortho-Terphenyl (SURR)	11.263	5147288	27.975 ug/ml
Spiked Amount	50.000		Recovery =	55.95%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.199	5193817	29.635 ug/ml
2) T	Naphthalene (C11.7)	5.717	5992871	32.097 ug/ml
3) T	2-Methylnaphthalene (...	6.764	5954666	31.508 ug/ml
5) T	Acenaphthylene (C15.06)	8.030	6376750	33.240 ug/ml
7) T	Acenaphthene (C15.5)	8.326	6841151	36.167 ug/ml
8) T	Flouorene (C16.55)	9.104	6811952	37.703 ug/ml
9) T	Phenanthrene (C19.36)	10.492	7176433	40.492 ug/ml
10) T	Anthracene (C19.43)	10.567	6915575	38.864 ug/ml
12) T	Fluoranthene (C21.85)	12.297	6861963	37.938 ug/mlm
13) T	Pyrene (C20.8)	12.591	7195067	40.181 ug/ml
14) T	Benzo[a]anthracene (C...	14.459	6235474	39.017 ug/ml
15) T	Chrysene (C27.41)	14.503	6313233	33.846 ug/ml
16) T	benzo[b]fluoranthene ...	16.007	6089018	36.562 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.041	6029743	35.522 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.384	5876440	35.954 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.751	6402008	48.670 ug/ml
20) T	Dibenz[a,h]anthracene...	17.788	5865413	35.052 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.002	5656937	34.828 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

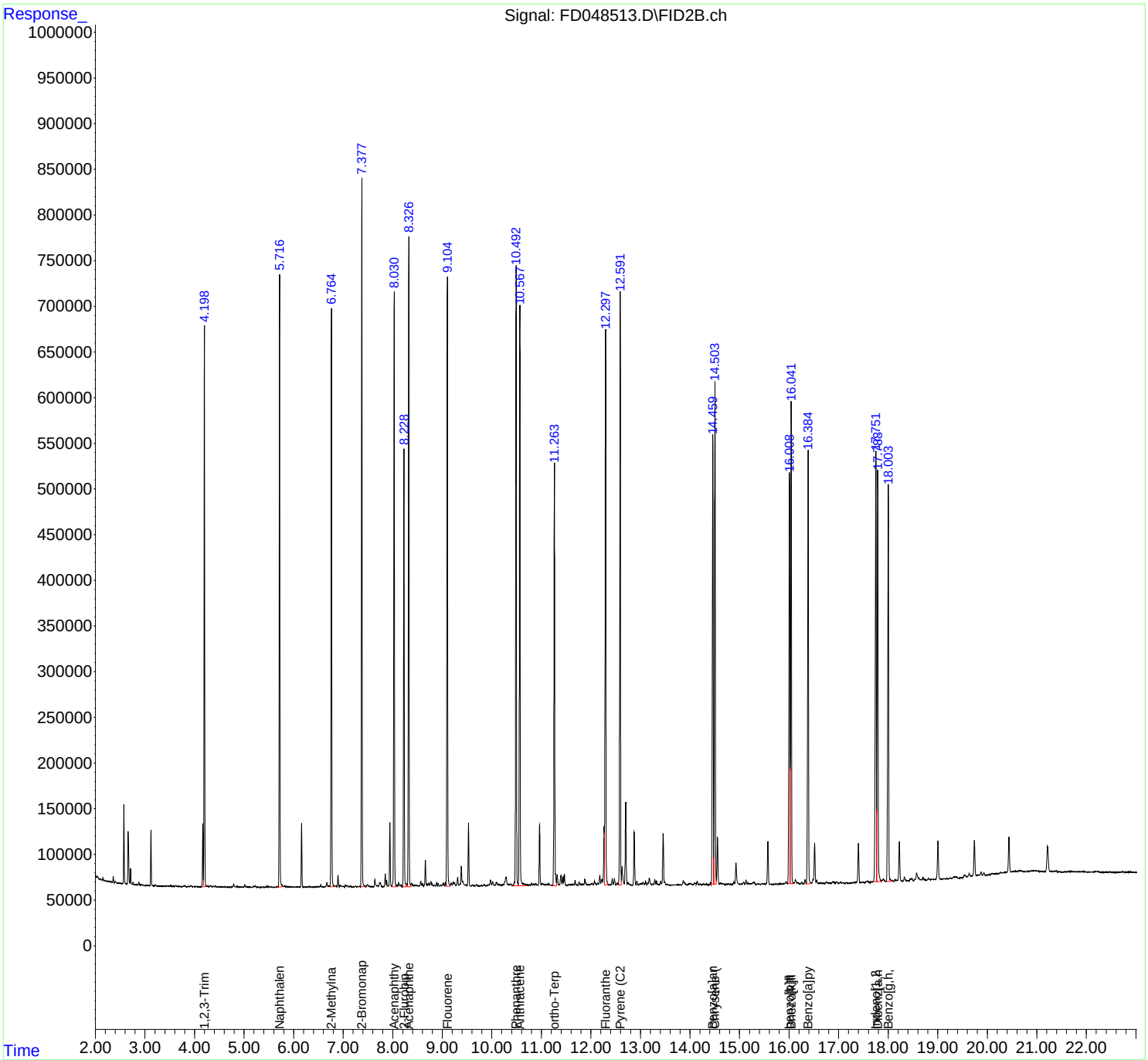
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101424AR\
Data File : FD048513.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 06:12
Operator : YP/AJ
Sample : P4397-02MSD
Misc :
ALS Vial : 80 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

Integration File: autoint1.e
Quant Time: Oct 15 07:37:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 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-301-BOTMSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10142
Data File : FD048513.D
Signal(s) : FID2B.ch
Acq On : 15 Oct 2024 06:12
Sample : P4397-02MSD
Misc :
ALS Vial : 80 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.168	4.137	4.180	PV	69216	581944	7.71%	0.401%
2	4.199	4.180	4.259	VV	610915	5193817	68.80%	3.575%
3	4.792	4.644	4.828	BV	3324	38316	0.51%	0.026%
4	5.717	5.661	5.799	BV	667726	5992871	79.38%	4.125%
5	6.162	6.118	6.215	BV	69840	665370	8.81%	0.458%
6	6.672	6.581	6.692	BV	4401	45528	0.60%	0.031%
7	6.764	6.730	6.833	PV	634993	5954666	78.88%	4.099%
8	6.897	6.875	6.924	PV	12325	122361	1.62%	0.084%
9	7.377	7.351	7.465	PV	779021	7244608	95.97%	4.987%
10	7.641	7.605	7.676	BV	7724	105511	1.40%	0.073%
11	7.737	7.715	7.805	VB	4585	100966	1.34%	0.070%
12	7.851	7.811	7.867	BV	13721	150256	1.99%	0.103%
13	7.879	7.867	7.901	VV	6967	72647	0.96%	0.050%
14	7.944	7.901	7.980	VV	70211	730069	9.67%	0.503%
15	8.030	7.980	8.078	VV	654731	6376750	84.47%	4.390%
16	8.121	8.104	8.161	VV	4705	71701	0.95%	0.049%
17	8.228	8.198	8.276	PV	479510	4767531	63.15%	3.282%
18	8.326	8.298	8.368	VV	702155	6841151	90.62%	4.709%
19	8.566	8.508	8.586	VV	5607	86395	1.14%	0.059%
20	8.661	8.623	8.711	VV	29000	354469	4.70%	0.244%
21	8.774	8.749	8.824	VV	5306	107837	1.43%	0.074%
22	8.888	8.864	8.905	VV	4031	45358	0.60%	0.031%
23	9.023	8.987	9.042	VV	3923	58945	0.78%	0.041%
24	9.061	9.042	9.073	VV	3581	38516	0.51%	0.027%
25	9.104	9.073	9.160	VV	672409	6811952	90.23%	4.689%
26	9.222	9.202	9.235	VV	4815	59044	0.78%	0.041%
27	9.312	9.275	9.339	VV	9444	133184	1.76%	0.092%
28	9.387	9.339	9.498	VV	21773	395977	5.25%	0.273%
29	9.532	9.498	9.570	VV	69083	734983	9.74%	0.506%
30	9.977	9.885	9.999	PV	5971	116368	1.54%	0.080%
31	10.017	9.999	10.050	VV	4217	59168	0.78%	0.041%
32	10.091	10.050	10.127	VV	3270	49439	0.65%	0.034%
33	10.286	10.242	10.331	VV	9102	227039	3.01%	0.156%
34	10.492	10.412	10.533	PV	671004	7176433	95.06%	4.940%
35	10.567	10.533	10.698	VV	640626	6915575	91.61%	4.761%
36	10.965	10.931	10.996	VV	66728	748549	9.92%	0.515%

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Instrument :
FID_D
ClientSampleId :
WB-301-BOTMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/16/2024
Supervised By :Ankita Jodhani 10/16/2024

A B C D E F G H I J

rteres

37	11.263	11.212	11.304	VV	465545	5147288	68.18%	3.543%
38	11.320	11.304	11.365	VV	11571	158418	2	
39	11.396	11.365	11.417	VV	10992	168614	2	
40	11.434	11.417	11.449	VV	10089	117273	1	
41	11.465	11.449	11.521	VV	12125	158945	2	
42	11.683	11.655	11.738	VV	5483	81281	1	
43	11.764	11.738	11.805	PV	3554	50832	0.67%	0.035%
44	11.878	11.855	11.925	BV	6158	81796	1.08%	0.056%
45	12.075	12.055	12.114	VV	3887	61590	0.82%	0.042%
46	12.179	12.154	12.199	VV	10233	133287	1.77%	0.092%
47	12.222	12.199	12.239	VV	6196	104503	1.38%	0.072%
48	12.297	12.239	12.375	VV	614746	7549212	100.00%	5.197%
49	12.431	12.407	12.452	VV	7155	84864	1.12%	0.058%
50	12.476	12.452	12.504	VV	7144	92540	1.23%	0.064%
51	12.591	12.553	12.615	VV	651228	7195067	95.31%	4.953%
52	12.629	12.615	12.671	VV	20192	315373	4.18%	0.217%
53	12.703	12.671	12.731	VV	91402	1123355	14.88%	0.773%
54	12.874	12.831	12.908	PV	58192	685613	9.08%	0.472%
55	12.927	12.908	12.968	VV	4041	55468	0.73%	0.038%
56	13.179	13.129	13.231	VV	7554	150896	2.00%	0.104%
57	13.287	13.268	13.307	VV	5574	67914	0.90%	0.047%
58	13.323	13.307	13.375	VV	4393	56215	0.74%	0.039%
59	13.408	13.375	13.427	PV	3462	37996	0.50%	0.026%
60	13.457	13.427	13.482	PV	54096	658426	8.72%	0.453%
61	13.864	13.788	13.936	BV	4597	106847	1.42%	0.074%
62	14.146	14.125	14.188	VV	3444	44491	0.59%	0.031%
63	14.459	14.423	14.479	PV	488810	6235474	82.60%	4.292%
64	14.503	14.479	14.530	VV	558028	6313233	83.63%	4.346%
65	14.554	14.530	14.587	VV	51263	647881	8.58%	0.446%
66	14.927	14.900	15.031	VV	23532	364261	4.83%	0.251%
67	15.130	15.106	15.152	PV	4379	50328	0.67%	0.035%
68	15.570	15.515	15.610	VV	47352	613808	8.13%	0.423%
69	16.007	15.971	16.022	BV	449916	6089018	80.66%	4.192%
70	16.041	16.022	16.098	VV	530042	6029743	79.87%	4.151%
71	16.127	16.098	16.161	VV	4428	79138	1.05%	0.054%
72	16.320	16.282	16.343	PV	4663	59932	0.79%	0.041%
73	16.384	16.343	16.455	VV	477148	5876440	77.84%	4.045%
74	16.514	16.455	16.542	VV	44224	655914	8.69%	0.452%
75	16.557	16.542	16.585	VV	3571	46452	0.62%	0.032%
76	17.398	17.310	17.451	VV	43382	615374	8.15%	0.424%
77	17.751	17.701	17.766	BV	471630	6402008	84.80%	4.407%
78	17.788	17.766	17.864	VV	447906	5865413	77.70%	4.038%
79	18.002	17.951	18.108	PV	426159	5656937	74.93%	3.894%

Sum of corrected areas: 145264751

Aromatic EPH 093024.M Tue Oct 15 07:50:02 2024

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

Manual Integration Report

Sequence:	FC100224AL	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:	FC101424AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC067429.D	n-Hexatriacontane (C36)	yogesh	10/15/2024 8:13:09 AM	Ankita	10/15/2024 9:34:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067429.D	n-Tetratriacontane (C34)	yogesh	10/15/2024 8:13:09 AM	Ankita	10/15/2024 9:34:04	Peak Integrated by Software
P4368-03	FC067433.D	n-Decane (C10)	yogesh	10/15/2024 8:13:07 AM	Ankita	10/15/2024 9:34:05	Peak Integrated by Software
P4397-02	FC067435.D	1-chlorooctadecane (SURR)	yogesh	10/15/2024 8:13:26 AM	Ankita	10/15/2024 9:34:07	Peak Integrated by Software
P4397-02D	FC067436.D	1-chlorooctadecane (SURR)	yogesh	10/15/2024 8:13:27 AM	Ankita	10/15/2024 9:34:09	Peak Integrated by Software
P4397-02MS	FC067437.D	1-chlorooctadecane (SURR)	yogesh	10/15/2024 8:13:29 AM	Ankita	10/15/2024 9:34:10	Peak Integrated by Software
P4397-02MSD	FC067438.D	1-chlorooctadecane (SURR)	yogesh	10/15/2024 8:13:30 AM	Ankita	10/15/2024 9:34:12	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067440.D	n-Dotriacontane (C32)	yogesh	10/15/2024 8:13:32 AM	Ankita	10/15/2024 9:34:13	Peak Integrated by Software
P4368-09	FC067444.D	n-Hexatriacontane (C36)	yogesh	10/15/2024 8:13:33 AM	Ankita	10/15/2024 9:34:14	Peak Integrated by Software
P4368-09	FC067444.D	n-Tetracontane (C40)	yogesh	10/15/2024 8:13:33 AM	Ankita	10/15/2024 9:34:14	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FD093024AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FD101424AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164109BS	FD048506.D	Fluoranthene (C21.85)	yogesh	10/16/2024 3:20:38 PM	Ankita	10/16/2024 4:39:07	Peak Integrated by Software
PB164109BSD	FD048507.D	Fluoranthene (C21.85)	yogesh	10/16/2024 3:20:42 PM	Ankita	10/16/2024 4:39:09	Peak Integrated by Software
P4368-03	FD048508.D	Benzo[a]anthracene (C26.37)	yogesh	10/16/2024 3:20:44 PM	Ankita	10/16/2024 4:39:11	Peak Integrated by Software
P4368-03	FD048508.D	Benzo[a]pyrene (C31.34)	yogesh	10/16/2024 3:20:44 PM	Ankita	10/16/2024 4:39:11	Peak Integrated by Software
P4368-03	FD048508.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	10/16/2024 3:20:44 PM	Ankita	10/16/2024 4:39:11	Peak Integrated by Software
P4368-03	FD048508.D	Naphthalene (C11.7)	yogesh	10/16/2024 3:20:44 PM	Ankita	10/16/2024 4:39:11	Peak Integrated by Software
P4397-01	FD048509.D	ortho-Terphenyl (SURR)	yogesh	10/16/2024 3:20:45 PM	Ankita	10/16/2024 4:39:12	Peak Integrated by Software
P4397-02MS	FD048512.D	Fluoranthene (C21.85)	yogesh	10/16/2024 3:20:47 PM	Ankita	10/16/2024 4:39:14	Peak Integrated by Software
P4397-02MSD	FD048513.D	Fluoranthene (C21.85)	yogesh	10/16/2024 3:20:49 PM	Ankita	10/16/2024 4:39:15	Peak Integrated by Software
PB164112BS	FD048517.D	Fluoranthene (C21.85)	yogesh	10/16/2024 3:20:51 PM	Ankita	10/16/2024 4:39:18	Peak Integrated by Software
PB164112BSD	FD048518.D	Fluoranthene (C21.85)	yogesh	10/16/2024 3:20:52 PM	Ankita	10/16/2024 4:39:20	Peak Integrated by Software
P4368-09	FD048519.D	Benzo[a]anthracene (C26.37)	yogesh	10/16/2024 3:20:54 PM	Ankita	10/16/2024 4:39:21	Peak Integrated by Software
P4368-09	FD048519.D	Benzo[a]pyrene (C31.34)	yogesh	10/16/2024 3:20:54 PM	Ankita	10/16/2024 4:39:21	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FD101424AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4368-09	FD048519.D	Chrysene (C27.41)	yogesh	10/16/2024 3:20:54 PM	Ankita	10/16/2024 4:39:21	Peak Integrated by Software
P4368-09	FD048519.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	10/16/2024 3:20:54 PM	Ankita	10/16/2024 4:39:21	Peak Integrated by Software
P4368-09	FD048519.D	Phenanthrene (C19.36)	yogesh	10/16/2024 3:20:54 PM	Ankita	10/16/2024 4:39:21	Peak Integrated by Software
P4397-01	FD048521.D	ortho-Terphenyl (SURR)	yogesh	10/16/2024 3:20:56 PM	Ankita	10/16/2024 4:39:23	Peak Integrated by Software
20 PPM AROMATIC HC	FD048523.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	10/16/2024 3:20:58 PM	Ankita	10/16/2024 4:39:25	Peak Integrated by Software

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC100224AL

Review By	yogesh	Review On	10/1/2024 9:33:02 AM		
Supervise By	Ankita	Supervise On	10/1/2024 10:31:51 AM		
SubDirectory	FC100224AL	HP Acquire Method		HP Processing Method	FC100224AL

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	FC067310.D	30 Sep 2024 09:18	YP/AJ	Ok
2	I.BLK	FC067311.D	30 Sep 2024 09:55	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC067312.D	30 Sep 2024 10:32	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC067313.D	30 Sep 2024 11:10	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC067314.D	30 Sep 2024 11:48	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC067315.D	30 Sep 2024 12:47	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC067316.D	30 Sep 2024 13:35	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC067317.D	30 Sep 2024 14:29	YP/AJ	Ok
9	I.BLK	FC067318.D	30 Sep 2024 15:06	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC067319.D	30 Sep 2024 15:49	YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC101424AL

Review By	yogesh	Review On	10/14/2024 1:28:36 PM		
Supervise By	Ankita	Supervise On	10/15/2024 9:34:25 AM		
SubDirectory	FC101424AL	HP Acquire Method		HP Processing Method	FC100224AL

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	FC067427.D	14 Oct 2024 07:58	YP/AJ	Ok
2	I.BLK	FC067428.D	14 Oct 2024 12:55	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067429.D	14 Oct 2024 13:32	YP/AJ	Ok,M
4	PB164109BL	FC067430.D	14 Oct 2024 16:38	YP/AJ	Ok
5	PB164109BS	FC067431.D	14 Oct 2024 17:15	YP/AJ	Ok
6	PB164109BSD	FC067432.D	14 Oct 2024 17:53	YP/AJ	Ok
7	P4368-03	FC067433.D	14 Oct 2024 18:30	YP/AJ	Ok,M
8	P4397-01	FC067434.D	14 Oct 2024 19:07	YP/AJ	Ok
9	P4397-02	FC067435.D	14 Oct 2024 19:44	YP/AJ	Ok,M
10	P4397-02D	FC067436.D	14 Oct 2024 20:21	YP/AJ	Ok,M
11	P4397-02MS	FC067437.D	14 Oct 2024 20:58	YP/AJ	Ok,M
12	P4397-02MSD	FC067438.D	14 Oct 2024 21:35	YP/AJ	Ok,M
13	I.BLK	FC067439.D	14 Oct 2024 22:11	YP/AJ	Ok
14	20 PPM ALIPHATIC HC STD	FC067440.D	14 Oct 2024 22:48	YP/AJ	Ok,M
15	PB164112BL	FC067441.D	15 Oct 2024 00:02	YP/AJ	Ok
16	PB164112BS	FC067442.D	15 Oct 2024 00:39	YP/AJ	Ok
17	PB164112BSD	FC067443.D	15 Oct 2024 01:17	YP/AJ	Ok
18	P4368-09	FC067444.D	15 Oct 2024 01:53	YP/AJ	Ok,M
19	P4396-01	FC067445.D	15 Oct 2024 02:30	YP/AJ	Ok
20	I.BLK	FC067446.D	15 Oct 2024 04:22	YP/AJ	Ok
21	20 PPM ALIPHATIC HC STD	FC067447.D	15 Oct 2024 04:59	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD093024AR

Review By	yogesh	Review On	9/30/2024 3:32:01 PM		
Supervise By	Ankita	Supervise On	10/1/2024 10:34:21 AM		
SubDirectory	FD093024AR	HP Acquire Method		HP Processing Method	FD093024AR

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	FD048396.D	30 Sep 2024 09:18	YP/AJ	Ok
2	I.BLK	FD048397.D	30 Sep 2024 09:55	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD048398.D	30 Sep 2024 10:32	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD048399.D	30 Sep 2024 11:10	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD048400.D	30 Sep 2024 11:48	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD048401.D	30 Sep 2024 12:47	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD048402.D	30 Sep 2024 13:35	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD048403.D	30 Sep 2024 14:29	YP/AJ	Ok
9	I.BLK	FD048404.D	30 Sep 2024 15:06	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD048405.D	30 Sep 2024 15:49	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD101424AR

Review By	yogesh	Review On	10/14/2024 1:29:39 PM		
Supervise By	Ankita	Supervise On	10/16/2024 4:39:36 PM		
SubDirectory	FD101424AR	HP Acquire Method		HP Processing Method	FD093024AR

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	FD048502.D	14 Oct 2024 21:35	YP/AJ	Ok
2	I.BLK	FD048503.D	14 Oct 2024 22:11	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048504.D	14 Oct 2024 22:48	YP/AJ	Ok
4	PB164109BL	FD048505.D	15 Oct 2024 00:02	YP/AJ	Ok
5	PB164109BS	FD048506.D	15 Oct 2024 00:39	YP/AJ	Ok,M
6	PB164109BSD	FD048507.D	15 Oct 2024 01:17	YP/AJ	Ok,M
7	P4368-03	FD048508.D	15 Oct 2024 01:53	YP/AJ	Ok,M
8	P4397-01	FD048509.D	15 Oct 2024 02:30	YP/AJ	ReRun
9	P4397-02	FD048510.D	15 Oct 2024 04:22	YP/AJ	Ok
10	P4397-02D	FD048511.D	15 Oct 2024 04:59	YP/AJ	Ok
11	P4397-02MS	FD048512.D	15 Oct 2024 05:35	YP/AJ	Ok,M
12	P4397-02MSD	FD048513.D	15 Oct 2024 06:12	YP/AJ	Ok,M
13	I.BLK	FD048514.D	15 Oct 2024 06:50	YP/AJ	Ok
14	20 PPM AROMATIC HC STD	FD048515.D	15 Oct 2024 07:27	YP/AJ	Ok
15	PB164112BL	FD048516.D	15 Oct 2024 08:04	YP/AJ	Ok
16	PB164112BS	FD048517.D	15 Oct 2024 08:41	YP/AJ	Ok,M
17	PB164112BSD	FD048518.D	15 Oct 2024 09:18	YP/AJ	Ok,M
18	P4368-09	FD048519.D	15 Oct 2024 09:55	YP/AJ	Ok,M
19	P4396-01	FD048520.D	15 Oct 2024 10:34	YP/AJ	Ok
20	P4397-01	FD048521.D	15 Oct 2024 11:10	YP/AJ	Ok,M
21	I.BLK	FD048522.D	15 Oct 2024 11:48	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD101424AR

Review By	yogesh	Review On	10/14/2024 1:29:39 PM		
Supervise By	Ankita	Supervise On	10/16/2024 4:39:36 PM		
SubDirectory	FD101424AR	HP Acquire Method		HP Processing Method	FD093024AR

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	

22	20 PPM AROMATIC HC STD	FD048523.D	15 Oct 2024 12:24	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC100224AL

Review By	yogesh	Review On	10/1/2024 9:33:02 AM		
Supervise By	Ankita	Supervise On	10/1/2024 10:31:51 AM		
SubDirectory	FC100224AL	HP Acquire Method		HP Processing Method	FC100224AL

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	FC067310.D	30 Sep 2024 09:18		YP/AJ	Ok
2	I.BLK	I.BLK	FC067311.D	30 Sep 2024 09:55		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC067312.D	30 Sep 2024 10:32		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC067313.D	30 Sep 2024 11:10		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067314.D	30 Sep 2024 11:48		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC067315.D	30 Sep 2024 12:47		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC067316.D	30 Sep 2024 13:35		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067317.D	30 Sep 2024 14:29		YP/AJ	Ok
9	I.BLK	I.BLK	FC067318.D	30 Sep 2024 15:06		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067319.D	30 Sep 2024 15:49		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC101424AL

Review By	yogesh	Review On	10/14/2024 1:28:36 PM		
Supervise By	Ankita	Supervise On	10/15/2024 9:34:25 AM		
SubDirectory	FC101424AL	HP Acquire Method		HP Processing Method	FC100224AL

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	FC067427.D	14 Oct 2024 07:58		YP/AJ	Ok
2	I.BLK	I.BLK	FC067428.D	14 Oct 2024 12:55		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067429.D	14 Oct 2024 13:32		YP/AJ	Ok,M
4	PB164109BL	PB164109BL	FC067430.D	14 Oct 2024 16:38		YP/AJ	Ok
5	PB164109BS	PB164109BS	FC067431.D	14 Oct 2024 17:15		YP/AJ	Ok
6	PB164109BSD	PB164109BSD	FC067432.D	14 Oct 2024 17:53		YP/AJ	Ok
7	P4368-03	MDL-SOIL-03-QT4-202	FC067433.D	14 Oct 2024 18:30	2.5 PPM SOIL MDL	YP/AJ	Ok,M
8	P4397-01	WB-301-TOP	FC067434.D	14 Oct 2024 19:07		YP/AJ	Ok
9	P4397-02	WB-301-BOT	FC067435.D	14 Oct 2024 19:44		YP/AJ	Ok,M
10	P4397-02D	P4397-02D	FC067436.D	14 Oct 2024 20:21		YP/AJ	Ok,M
11	P4397-02MS	WB-301-BOTMS	FC067437.D	14 Oct 2024 20:58	FC067435.D	YP/AJ	Ok,M
12	P4397-02MSD	WB-301-BOTMSD	FC067438.D	14 Oct 2024 21:35	FC067435.D!FC067437.D	YP/AJ	Ok,M
13	I.BLK	I.BLK	FC067439.D	14 Oct 2024 22:11		YP/AJ	Ok
14	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067440.D	14 Oct 2024 22:48		YP/AJ	Ok,M
15	PB164112BL	PB164112BL	FC067441.D	15 Oct 2024 00:02		YP/AJ	Ok
16	PB164112BS	PB164112BS	FC067442.D	15 Oct 2024 00:39		YP/AJ	Ok
17	PB164112BSD	PB164112BSD	FC067443.D	15 Oct 2024 01:17		YP/AJ	Ok
18	P4368-09	MDL-WATER-03-QT4-2	FC067444.D	15 Oct 2024 01:53	2.5 PPM WATER MDL	YP/AJ	Ok,M

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC101424AL

Review By	yogesh	Review On	10/14/2024 1:28:36 PM		
Supervise By	Ankita	Supervise On	10/15/2024 9:34:25 AM		
SubDirectory	FC101424AL	HP Acquire Method		HP Processing Method	FC100224AL

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	P4396-01	WASTE-WATER-FRAC	FC067445.D	15 Oct 2024 02:30		YP/AJ	Ok
20	I.BLK	I.BLK	FC067446.D	15 Oct 2024 04:22		YP/AJ	Ok
21	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067447.D	15 Oct 2024 04:59		YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD093024AR

Review By	yogesh	Review On	9/30/2024 3:32:01 PM		
Supervise By	Ankita	Supervise On	10/1/2024 10:34:21 AM		
SubDirectory	FD093024AR	HP Acquire Method		HP Processing Method	FD093024AR

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	FD048396.D	30 Sep 2024 09:18		YP/AJ	Ok
2	I.BLK	I.BLK	FD048397.D	30 Sep 2024 09:55		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD048398.D	30 Sep 2024 10:32		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD048399.D	30 Sep 2024 11:10		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048400.D	30 Sep 2024 11:48		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD048401.D	30 Sep 2024 12:47		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD048402.D	30 Sep 2024 13:35		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048403.D	30 Sep 2024 14:29		YP/AJ	Ok
9	I.BLK	I.BLK	FD048404.D	30 Sep 2024 15:06		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048405.D	30 Sep 2024 15:49		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD101424AR

Review By	yogesh	Review On	10/14/2024 1:29:39 PM		
Supervise By	Ankita	Supervise On	10/16/2024 4:39:36 PM		
SubDirectory	FD101424AR	HP Acquire Method		HP Processing Method	FD093024AR

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	FD048502.D	14 Oct 2024 21:35		YP/AJ	Ok
2	I.BLK	I.BLK	FD048503.D	14 Oct 2024 22:11		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048504.D	14 Oct 2024 22:48		YP/AJ	Ok
4	PB164109BL	PB164109BL	FD048505.D	15 Oct 2024 00:02		YP/AJ	Ok
5	PB164109BS	PB164109BS	FD048506.D	15 Oct 2024 00:39		YP/AJ	Ok,M
6	PB164109BSD	PB164109BSD	FD048507.D	15 Oct 2024 01:17		YP/AJ	Ok,M
7	P4368-03	MDL-SOIL-03-QT4-202	FD048508.D	15 Oct 2024 01:53	2.5 PPM SOIL MDL	YP/AJ	Ok,M
8	P4397-01	WB-301-TOP	FD048509.D	15 Oct 2024 02:30	surrogate fail	YP/AJ	ReRun
9	P4397-02	WB-301-BOT	FD048510.D	15 Oct 2024 04:22		YP/AJ	Ok
10	P4397-02D	P4397-02D	FD048511.D	15 Oct 2024 04:59		YP/AJ	Ok
11	P4397-02MS	WB-301-BOTMS	FD048512.D	15 Oct 2024 05:35	FD048510.D	YP/AJ	Ok,M
12	P4397-02MSD	WB-301-BOTMSD	FD048513.D	15 Oct 2024 06:12	FD048510.D!FD048512.D	YP/AJ	Ok,M
13	I.BLK	I.BLK	FD048514.D	15 Oct 2024 06:50		YP/AJ	Ok
14	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048515.D	15 Oct 2024 07:27		YP/AJ	Ok
15	PB164112BL	PB164112BL	FD048516.D	15 Oct 2024 08:04		YP/AJ	Ok
16	PB164112BS	PB164112BS	FD048517.D	15 Oct 2024 08:41		YP/AJ	Ok,M
17	PB164112BSD	PB164112BSD	FD048518.D	15 Oct 2024 09:18		YP/AJ	Ok,M
18	P4368-09	MDL-WATER-03-QT4-2	FD048519.D	15 Oct 2024 09:55	2.5 PPM WATER MDL	YP/AJ	Ok,M

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD101424AR

Review By	yogesh	Review On	10/14/2024 1:29:39 PM		
Supervise By	Ankita	Supervise On	10/16/2024 4:39:36 PM		
SubDirectory	FD101424AR	HP Acquire Method		HP Processing Method	FD093024AR

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	P4396-01	WASTE-WATER-FRAC	FD048520.D	15 Oct 2024 10:34		YP/AJ	Ok
20	P4397-01	WB-301-TOP	FD048521.D	15 Oct 2024 11:10		YP/AJ	Ok,M
21	I.BLK	I.BLK	FD048522.D	15 Oct 2024 11:48		YP/AJ	Ok
22	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048523.D	15 Oct 2024 12:24		YP/AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164109

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/14/2024
Matrix :	Solid			**Extraction Start Time :**	08:32
Weigh By:	EH	**Extraction By:**	RS	**Extraction End Date :**	10/14/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:10
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	PP23704
MDL	0.25ML	20 PPM	PP23539
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	EP2546
Sand	N/A	E2865
Hexane	N/A	E3816
Methylene Chloride	N/A	E3817
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

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID:	N/A	**Envap ID:**	NE VAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/14/24	RP (Set Lead)	Y. Pipetkins.
16:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164109

Analytical Method: MNJDEP-EPH-7 **Concentration Date:** 10/14/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164109BL	PB164109BL	EPH	30.01	N/A	ritesh	Evelyn	2			U5-1
PB164109BS	PB164109BS	EPH	30.02	N/A	ritesh	Evelyn	2			2
PB164109BSD	PB164109BSD	EPH	30.03	N/A	ritesh	Evelyn	2			3
P4368-03	MDL-SOIL-03-QT4-2024 0.25 ML	EPH	30.04	N/A	ritesh	Evelyn	2			4
P4397-01	WB-301-TOP	EPH	30.07	N/A	ritesh	Evelyn	2			5
P4397-02	WB-301-BOT	EPH	30.06	N/A	ritesh	Evelyn	2			6
P4397-02DUP	WB-301-BOTDUP	EPH	30.08	N/A	ritesh	Evelyn	2			U6-1
P4397-02MS	WB-301-BOTMS	EPH	30.04	N/A	ritesh	Evelyn	2			2
P4397-02MSD	WB-301-BOTMSD	EPH	30.05	N/A	ritesh	Evelyn	2			3

* **Extracts relinquished on the same date as received.**

10/11/24

10/9 8:32 EDD

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4368 **WorkList ID :** 184395 **Department :** Extraction **Date :** 10-14-2024 08:22:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4368-03	MDL-SOIL-03-QT4-2024	Solid	EPH	Cool 4 deg C	CHEM02	QA Of	10/09/2024	NJEPH
P4368-03	MDL-SOIL-03-QT4-2024	Solid	Herbicide	Cool 4 deg C	CHEM02	QA Of	10/09/2024	8151A
P4368-09	MDL-WATER-03-QT4-2024	Water	EPH	1:1 HCl to pH < 2	CHEM02	QA Of	10/09/2024	NJEPH
P4368-09	MDL-WATER-03-QT4-2024	Water	Herbicide	Cool 4 deg C	CHEM02	QA Of	10/09/2024	8151A

Date/Time 10/14/24 8:30
Raw Sample Received by: RJ (Sept Lab)
Raw Sample Relinquished by: CP

Date/Time 10/14/24 8:30
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (Sept Lab)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4397 **WorkList ID :** 184423 **Department :** Extraction **Date :** 10-14-2024 10:00:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4397-01	WB-301-TOP	Solid	EPH	Cool 4 deg C	PORT06	K32	10/10/2024	NJEPH
P4397-02	WB-301-BOT	Solid	EPH	Cool 4 deg C	PORT06	K32	10/10/2024	NJEPH

Date/Time 10/14/24 10:00
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: JD (SM)

Date/Time 10/14/24 10:15
Raw Sample Received by: JD (SM)
Raw Sample Relinquished by: RJ (Ext-Lab)

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LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**Solid**			**10/10/24**			**10/11/24**
			EPH	NJEPH		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/15/24	
P4397-02	**WB-301-BOT**	**Solid**			**10/10/24**			**10/11/24**
			EPH	NJEPH		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/15/24	

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Hit Summary Sheet
SW-846

SDG No.: P4397 **Order ID:** P4397

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-301-TOP								
P4397-01	WB-301-TOP	SOIL	Aluminum	8890		3.51	7.28	mg/Kg
P4397-01	WB-301-TOP	SOIL	Antimony	1.21	J	0.22	3.64	mg/Kg
P4397-01	WB-301-TOP	SOIL	Arsenic	46.6		0.42	1.46	mg/Kg
P4397-01	WB-301-TOP	SOIL	Barium	137		0.93	7.28	mg/Kg
P4397-01	WB-301-TOP	SOIL	Beryllium	1.33		0.017	0.44	mg/Kg
P4397-01	WB-301-TOP	SOIL	Cadmium	3.38		0.023	0.44	mg/Kg
P4397-01	WB-301-TOP	SOIL	Calcium	2410		4.08	146	mg/Kg
P4397-01	WB-301-TOP	SOIL	Chromium	193	D	0.39	3.64	mg/Kg
P4397-01	WB-301-TOP	SOIL	Cobalt	9.09		0.084	2.18	mg/Kg
P4397-01	WB-301-TOP	SOIL	Copper	351		0.68	1.46	mg/Kg
P4397-01	WB-301-TOP	SOIL	Iron	19400		3.92	7.28	mg/Kg
P4397-01	WB-301-TOP	SOIL	Lead	329		0.22	0.87	mg/Kg
P4397-01	WB-301-TOP	SOIL	Magnesium	4210		4.99	146	mg/Kg
P4397-01	WB-301-TOP	SOIL	Manganese	199		0.10	1.46	mg/Kg
P4397-01	WB-301-TOP	SOIL	Mercury	5.60	D	0.082	0.18	mg/Kg
P4397-01	WB-301-TOP	SOIL	Nickel	42.1		0.13	2.91	mg/Kg
P4397-01	WB-301-TOP	SOIL	Potassium	1370		41.8	146	mg/Kg
P4397-01	WB-301-TOP	SOIL	Silver	2.11		0.076	0.73	mg/Kg
P4397-01	WB-301-TOP	SOIL	Sodium	2460		52.6	146	mg/Kg
P4397-01	WB-301-TOP	SOIL	Vanadium	25.9		0.39	2.91	mg/Kg
P4397-01	WB-301-TOP	SOIL	Zinc	429		0.16	2.91	mg/Kg
Client ID : WB-301-BOT								
P4397-02	WB-301-BOT	SOIL	Aluminum	5800		2.95	6.12	mg/Kg
P4397-02	WB-301-BOT	SOIL	Arsenic	4.48		0.36	1.22	mg/Kg
P4397-02	WB-301-BOT	SOIL	Barium	74.0		0.78	6.12	mg/Kg
P4397-02	WB-301-BOT	SOIL	Beryllium	0.92		0.015	0.37	mg/Kg
P4397-02	WB-301-BOT	SOIL	Cadmium	1.36		0.020	0.37	mg/Kg
P4397-02	WB-301-BOT	SOIL	Calcium	753		3.43	122	mg/Kg
P4397-02	WB-301-BOT	SOIL	Chromium	23.4		0.066	0.61	mg/Kg
P4397-02	WB-301-BOT	SOIL	Cobalt	6.78		0.071	1.84	mg/Kg
P4397-02	WB-301-BOT	SOIL	Copper	38.9		0.57	1.22	mg/Kg
P4397-02	WB-301-BOT	SOIL	Iron	13400		3.29	6.12	mg/Kg
P4397-02	WB-301-BOT	SOIL	Lead	31.3		0.18	0.73	mg/Kg
P4397-02	WB-301-BOT	SOIL	Magnesium	3250		4.20	122	mg/Kg
P4397-02	WB-301-BOT	SOIL	Manganese	108		0.087	1.22	mg/Kg
P4397-02	WB-301-BOT	SOIL	Mercury	0.035		0.0080	0.017	mg/Kg
P4397-02	WB-301-BOT	SOIL	Nickel	16.9		0.11	2.45	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4397 **Order ID:** P4397

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4397-02	WB-301-BOT	SOIL	Potassium	1200		35.1	122	mg/Kg
P4397-02	WB-301-BOT	SOIL	Silver	0.073	J	0.064	0.61	mg/Kg
P4397-02	WB-301-BOT	SOIL	Sodium	800		44.2	122	mg/Kg
P4397-02	WB-301-BOT	SOIL	Vanadium	16.1		0.33	2.45	mg/Kg
P4397-02	WB-301-BOT	SOIL	Zinc	59.8		0.14	2.45	mg/Kg
Client ID :	**WB-301-SW**							
P4397-04	WB-301-SW	Water	Aluminum	80.2		28.3	50.0	ug/L
P4397-04	WB-301-SW	Water	Barium	51.6		6.28	50.0	ug/L
P4397-04	WB-301-SW	Water	Cadmium	0.11	J	0.094	3.00	ug/L
P4397-04	WB-301-SW	Water	Calcium	144000		33.0	1000	ug/L
P4397-04	WB-301-SW	Water	Chromium	10.5		0.66	5.00	ug/L
P4397-04	WB-301-SW	Water	Iron	289		18.5	50.0	ug/L
P4397-04	WB-301-SW	Water	Magnesium	365000		39.4	1000	ug/L
P4397-04	WB-301-SW	Water	Manganese	54.9		1.46	10.0	ug/L
P4397-04	WB-301-SW	Water	Mercury	0.099	J	0.081	0.20	ug/L
P4397-04	WB-301-SW	Water	Nickel	4.19	J	0.85	20.0	ug/L
P4397-04	WB-301-SW	Water	Potassium	225000		685	1000	ug/L
P4397-04	WB-301-SW	Water	Sodium	3550000	D	2370	10000	ug/L
P4397-04	WB-301-SW	Water	Vanadium	4.43	J	3.06	20.0	ug/L
P4397-04	WB-301-SW	Water	Zinc	12.3	J	1.75	20.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	63.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8890		1	3.51	7.28	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-36-0	Antimony	1.21	J	1	0.22	3.64	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-38-2	Arsenic	46.6		1	0.42	1.46	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-39-3	Barium	137		1	0.93	7.28	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-41-7	Beryllium	1.33	N*	1	0.017	0.44	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-43-9	Cadmium	3.38		1	0.023	0.44	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-70-2	Calcium	2410		1	4.08	146	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-47-3	Chromium	193	DN	5	0.39	3.64	mg/Kg	10/15/24 10:00	10/16/24 15:55	SW6010	SW3050
7440-48-4	Cobalt	9.09		1	0.084	2.18	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-50-8	Copper	351	N	1	0.68	1.46	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7439-89-6	Iron	19400		1	3.92	7.28	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7439-92-1	Lead	329		1	0.22	0.87	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7439-95-4	Magnesium	4210		1	4.99	146	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7439-96-5	Manganese	199		1	0.10	1.46	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7439-97-6	Mercury	5.60	D	10	0.082	0.18	mg/Kg	10/15/24 15:15	10/16/24 14:52	SW7471B	
7440-02-0	Nickel	42.1		1	0.13	2.91	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-09-7	Potassium	1370	N	1	41.8	146	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7782-49-2	Selenium	0.48	UN	1	0.48	1.46	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-22-4	Silver	2.11	N	1	0.076	0.73	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-23-5	Sodium	2460	N	1	52.6	146	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-28-0	Thallium	0.64	U	1	0.64	2.91	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-62-2	Vanadium	25.9	N	1	0.39	2.91	mg/Kg	10/15/24 10:00	10/16/24 13:26	SW6010	SW3050
7440-66-6	Zinc	429		1	0.16	2.91	mg/Kg	10/15/24 10:00	10/16/24 13:26	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	76

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5800		1	2.95	6.12	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-36-0	Antimony	0.18	U	1	0.18	3.06	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-38-2	Arsenic	4.48		1	0.36	1.22	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-39-3	Barium	74.0		1	0.78	6.12	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-41-7	Beryllium	0.92	N*	1	0.015	0.37	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-43-9	Cadmium	1.36		1	0.020	0.37	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-70-2	Calcium	753		1	3.43	122	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-47-3	Chromium	23.4	N	1	0.066	0.61	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-48-4	Cobalt	6.78		1	0.071	1.84	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-50-8	Copper	38.9	N	1	0.57	1.22	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7439-89-6	Iron	13400		1	3.29	6.12	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7439-92-1	Lead	31.3		1	0.18	0.73	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7439-95-4	Magnesium	3250		1	4.20	122	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7439-96-5	Manganese	108		1	0.087	1.22	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7439-97-6	Mercury	0.035		1	0.0080	0.017	mg/Kg	10/15/24 15:15	10/16/24 14:21	SW7471B	
7440-02-0	Nickel	16.9		1	0.11	2.45	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-09-7	Potassium	1200	N	1	35.1	122	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7782-49-2	Selenium	0.40	UN	1	0.40	1.22	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-22-4	Silver	0.073	JN	1	0.064	0.61	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-23-5	Sodium	800	N	1	44.2	122	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-28-0	Thallium	0.54	U	1	0.54	2.45	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-62-2	Vanadium	16.1	N	1	0.33	2.45	mg/Kg	10/15/24 10:00	10/16/24 13:30	SW6010	SW3050
7440-66-6	Zinc	59.8		1	0.14	2.45	mg/Kg	10/15/24 10:00	10/16/24 13:30	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
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Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	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	80.2		1	28.3	50.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-36-0	Antimony	2.06	UN	1	2.06	25.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-39-3	Barium	51.6		1	6.28	50.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-43-9	Cadmium	0.11	J	1	0.094	3.00	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-70-2	Calcium	144000		1	33.0	1000	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-47-3	Chromium	10.5		1	0.66	5.00	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-50-8	Copper	7.07	UN*	1	7.07	10.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7439-89-6	Iron	289	N	1	18.5	50.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7439-95-4	Magnesium	365000		1	39.4	1000	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7439-96-5	Manganese	54.9		1	1.46	10.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7439-97-6	Mercury	0.099	J	1	0.081	0.20	ug/L	10/15/24 14:20	10/15/24 14:12	SW7470A	
7440-02-0	Nickel	4.19	J	1	0.85	20.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-09-7	Potassium	225000	*	1	685	1000	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-23-5	Sodium	3550000	D	10	2370	10000	ug/L	10/16/24 08:50	11/04/24 21:21	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-62-2	Vanadium	4.43	J	1	3.06	20.0	ug/L	10/16/24 08:50	11/04/24 19:28	SW6010	SW3010
7440-66-6	Zinc	12.3	JN*	1	1.75	20.0	ug/L	10/16/24 08:50	11/04/24 19:28	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
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N =Spiked sample recovery not within control limits

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB37	Mercury	0.20	+/-0.20	U	0.20	CV	10/15/2024	12:34	LB132940

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB21	Mercury	0.20	+/-0.20	U	0.20	CV	10/15/2024	12:38	LB132940
CCB22	Mercury	0.20	+/-0.20	U	0.20	CV	10/15/2024	13:08	LB132940
CCB23	Mercury	0.20	+/-0.20	U	0.20	CV	10/15/2024	13:35	LB132940
CCB24	Mercury	0.20	+/-0.20	U	0.20	CV	10/15/2024	14:03	LB132940
CCB25	Mercury	0.20	+/-0.20	U	0.20	CV	10/15/2024	14:30	LB132940

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB39	Mercury	0.20	+/-0.20	U	0.20	CV	10/16/2024	13:55	LB132960

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB29	Mercury	0.20	+/-0.20	U	0.20	CV	10/16/2024	14:00	LB132960
CCB30	Mercury	0.20	+/-0.20	U	0.20	CV	10/16/2024	14:33	LB132960
CCB31	Mercury	0.20	+/-0.20	U	0.20	CV	10/16/2024	14:56	LB132960

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/16/2024	11:48	LB132963
	Antimony	50.0	+/-50.0	U	50.0	P	10/16/2024	11:48	LB132963
	Arsenic	20.0	+/-20.0	U	20.0	P	10/16/2024	11:48	LB132963
	Barium	100	+/-100	U	100	P	10/16/2024	11:48	LB132963
	Beryllium	6.00	+/-6.00	U	6.00	P	10/16/2024	11:48	LB132963
	Cadmium	6.00	+/-6.00	U	6.00	P	10/16/2024	11:48	LB132963
	Calcium	2000	+/-2000	U	2000	P	10/16/2024	11:48	LB132963
	Chromium	10.0	+/-10.0	U	10.0	P	10/16/2024	11:48	LB132963
	Cobalt	30.0	+/-30.0	U	30.0	P	10/16/2024	11:48	LB132963
	Copper	20.0	+/-20.0	U	20.0	P	10/16/2024	11:48	LB132963
	Iron	100	+/-100	U	100	P	10/16/2024	11:48	LB132963
	Lead	12.0	+/-12.0	U	12.0	P	10/16/2024	11:48	LB132963
	Magnesium	2000	+/-2000	U	2000	P	10/16/2024	11:48	LB132963
	Manganese	20.0	+/-20.0	U	20.0	P	10/16/2024	11:48	LB132963
	Nickel	40.0	+/-40.0	U	40.0	P	10/16/2024	11:48	LB132963
	Potassium	2000	+/-2000	U	2000	P	10/16/2024	11:48	LB132963
	Selenium	20.0	+/-20.0	U	20.0	P	10/16/2024	11:48	LB132963
	Silver	10.0	+/-10.0	U	10.0	P	10/16/2024	11:48	LB132963
	Sodium	2000	+/-2000	U	2000	P	10/16/2024	11:48	LB132963
	Thallium	40.0	+/-40.0	U	40.0	P	10/16/2024	11:48	LB132963
	Vanadium	40.0	+/-40.0	U	40.0	P	10/16/2024	11:48	LB132963
	Zinc	40.0	+/-40.0	U	40.0	P	10/16/2024	11:48	LB132963

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/16/2024	12:18	LB132963
	Antimony	50.0	+/-50.0	U	50.0	P	10/16/2024	12:18	LB132963
	Arsenic	20.0	+/-20.0	U	20.0	P	10/16/2024	12:18	LB132963
	Barium	100	+/-100	U	100	P	10/16/2024	12:18	LB132963
	Beryllium	6.00	+/-6.00	U	6.00	P	10/16/2024	12:18	LB132963
	Cadmium	6.00	+/-6.00	U	6.00	P	10/16/2024	12:18	LB132963
	Calcium	2000	+/-2000	U	2000	P	10/16/2024	12:18	LB132963
	Chromium	10.0	+/-10.0	U	10.0	P	10/16/2024	12:18	LB132963
	Cobalt	30.0	+/-30.0	U	30.0	P	10/16/2024	12:18	LB132963
	Copper	20.0	+/-20.0	U	20.0	P	10/16/2024	12:18	LB132963
	Iron	100	+/-100	U	100	P	10/16/2024	12:18	LB132963
	Lead	12.0	+/-12.0	U	12.0	P	10/16/2024	12:18	LB132963
	Magnesium	2000	+/-2000	U	2000	P	10/16/2024	12:18	LB132963
	Manganese	20.0	+/-20.0	U	20.0	P	10/16/2024	12:18	LB132963
	Nickel	40.0	+/-40.0	U	40.0	P	10/16/2024	12:18	LB132963
	Potassium	2000	+/-2000	U	2000	P	10/16/2024	12:18	LB132963
	Selenium	20.0	+/-20.0	U	20.0	P	10/16/2024	12:18	LB132963
	Silver	10.0	+/-10.0	U	10.0	P	10/16/2024	12:18	LB132963
	Sodium	2000	+/-2000	U	2000	P	10/16/2024	12:18	LB132963
	Thallium	40.0	+/-40.0	U	40.0	P	10/16/2024	12:18	LB132963
	Vanadium	40.0	+/-40.0	U	40.0	P	10/16/2024	12:18	LB132963
	Zinc	40.0	+/-40.0	U	40.0	P	10/16/2024	12:18	LB132963
CCB02	Aluminum	100	+/-100	U	100	P	10/16/2024	13:17	LB132963
	Antimony	50.0	+/-50.0	U	50.0	P	10/16/2024	13:17	LB132963
	Arsenic	20.0	+/-20.0	U	20.0	P	10/16/2024	13:17	LB132963
	Barium	100	+/-100	U	100	P	10/16/2024	13:17	LB132963
	Beryllium	6.00	+/-6.00	U	6.00	P	10/16/2024	13:17	LB132963
	Cadmium	6.00	+/-6.00	U	6.00	P	10/16/2024	13:17	LB132963
	Calcium	2000	+/-2000	U	2000	P	10/16/2024	13:17	LB132963
	Chromium	10.0	+/-10.0	U	10.0	P	10/16/2024	13:17	LB132963
	Cobalt	30.0	+/-30.0	U	30.0	P	10/16/2024	13:17	LB132963
	Copper	20.0	+/-20.0	U	20.0	P	10/16/2024	13:17	LB132963
	Iron	100	+/-100	U	100	P	10/16/2024	13:17	LB132963
	Lead	12.0	+/-12.0	U	12.0	P	10/16/2024	13:17	LB132963
	Magnesium	2000	+/-2000	U	2000	P	10/16/2024	13:17	LB132963
	Manganese	20.0	+/-20.0	U	20.0	P	10/16/2024	13:17	LB132963
	Nickel	40.0	+/-40.0	U	40.0	P	10/16/2024	13:17	LB132963
	Potassium	2000	+/-2000	U	2000	P	10/16/2024	13:17	LB132963
	Selenium	20.0	+/-20.0	U	20.0	P	10/16/2024	13:17	LB132963

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/16/2024	13:17	LB132963
	Sodium	2000	+/-2000	U	2000	P	10/16/2024	13:17	LB132963
	Thallium	40.0	+/-40.0	U	40.0	P	10/16/2024	13:17	LB132963
	Vanadium	40.0	+/-40.0	U	40.0	P	10/16/2024	13:17	LB132963
	Zinc	40.0	+/-40.0	U	40.0	P	10/16/2024	13:17	LB132963
CCB03	Aluminum	100	+/-100	U	100	P	10/16/2024	14:07	LB132963
	Antimony	50.0	+/-50.0	U	50.0	P	10/16/2024	14:07	LB132963
	Arsenic	20.0	+/-20.0	U	20.0	P	10/16/2024	14:07	LB132963
	Barium	100	+/-100	U	100	P	10/16/2024	14:07	LB132963
	Beryllium	6.00	+/-6.00	U	6.00	P	10/16/2024	14:07	LB132963
	Cadmium	6.00	+/-6.00	U	6.00	P	10/16/2024	14:07	LB132963
	Calcium	2000	+/-2000	U	2000	P	10/16/2024	14:07	LB132963
	Chromium	10.0	+/-10.0	U	10.0	P	10/16/2024	14:07	LB132963
	Cobalt	30.0	+/-30.0	U	30.0	P	10/16/2024	14:07	LB132963
	Copper	20.0	+/-20.0	U	20.0	P	10/16/2024	14:07	LB132963
	Iron	100	+/-100	U	100	P	10/16/2024	14:07	LB132963
	Lead	12.0	+/-12.0	U	12.0	P	10/16/2024	14:07	LB132963
	Magnesium	2000	+/-2000	U	2000	P	10/16/2024	14:07	LB132963
	Manganese	20.0	+/-20.0	U	20.0	P	10/16/2024	14:07	LB132963
	Nickel	40.0	+/-40.0	U	40.0	P	10/16/2024	14:07	LB132963
	Potassium	2000	+/-2000	U	2000	P	10/16/2024	14:07	LB132963
	Selenium	20.0	+/-20.0	U	20.0	P	10/16/2024	14:07	LB132963
	Silver	10.0	+/-10.0	U	10.0	P	10/16/2024	14:07	LB132963
	Sodium	2000	+/-2000	U	2000	P	10/16/2024	14:07	LB132963
	Thallium	40.0	+/-40.0	U	40.0	P	10/16/2024	14:07	LB132963
	Vanadium	40.0	+/-40.0	U	40.0	P	10/16/2024	14:07	LB132963
	Zinc	40.0	+/-40.0	U	40.0	P	10/16/2024	14:07	LB132963
CCB04	Aluminum	100	+/-100	U	100	P	10/16/2024	14:59	LB132963
	Antimony	50.0	+/-50.0	U	50.0	P	10/16/2024	14:59	LB132963
	Arsenic	20.0	+/-20.0	U	20.0	P	10/16/2024	14:59	LB132963
	Barium	100	+/-100	U	100	P	10/16/2024	14:59	LB132963
	Beryllium	6.00	+/-6.00	U	6.00	P	10/16/2024	14:59	LB132963
	Cadmium	6.00	+/-6.00	U	6.00	P	10/16/2024	14:59	LB132963
	Calcium	2000	+/-2000	U	2000	P	10/16/2024	14:59	LB132963
	Chromium	10.0	+/-10.0	U	10.0	P	10/16/2024	14:59	LB132963
	Cobalt	30.0	+/-30.0	U	30.0	P	10/16/2024	14:59	LB132963
	Copper	20.0	+/-20.0	U	20.0	P	10/16/2024	14:59	LB132963
	Iron	100	+/-100	U	100	P	10/16/2024	14:59	LB132963
	Lead	12.0	+/-12.0	U	12.0	P	10/16/2024	14:59	LB132963

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/16/2024	14:59	LB132963
	Manganese	20.0	+/-20.0	U	20.0	P	10/16/2024	14:59	LB132963
	Nickel	40.0	+/-40.0	U	40.0	P	10/16/2024	14:59	LB132963
	Potassium	2000	+/-2000	U	2000	P	10/16/2024	14:59	LB132963
	Selenium	20.0	+/-20.0	U	20.0	P	10/16/2024	14:59	LB132963
	Silver	10.0	+/-10.0	U	10.0	P	10/16/2024	14:59	LB132963
	Sodium	2000	+/-2000	U	2000	P	10/16/2024	14:59	LB132963
	Thallium	40.0	+/-40.0	U	40.0	P	10/16/2024	14:59	LB132963
	Vanadium	40.0	+/-40.0	U	40.0	P	10/16/2024	14:59	LB132963
	Zinc	40.0	+/-40.0	U	40.0	P	10/16/2024	14:59	LB132963
CCB05	Aluminum	100	+/-100	U	100	P	10/16/2024	15:50	LB132963
	Antimony	50.0	+/-50.0	U	50.0	P	10/16/2024	15:50	LB132963
	Arsenic	20.0	+/-20.0	U	20.0	P	10/16/2024	15:50	LB132963
	Barium	100	+/-100	U	100	P	10/16/2024	15:50	LB132963
	Beryllium	6.00	+/-6.00	U	6.00	P	10/16/2024	15:50	LB132963
	Cadmium	6.00	+/-6.00	U	6.00	P	10/16/2024	15:50	LB132963
	Calcium	2000	+/-2000	U	2000	P	10/16/2024	15:50	LB132963
	Chromium	10.0	+/-10.0	U	10.0	P	10/16/2024	15:50	LB132963
	Cobalt	30.0	+/-30.0	U	30.0	P	10/16/2024	15:50	LB132963
	Copper	20.0	+/-20.0	U	20.0	P	10/16/2024	15:50	LB132963
	Iron	100	+/-100	U	100	P	10/16/2024	15:50	LB132963
	Lead	12.0	+/-12.0	U	12.0	P	10/16/2024	15:50	LB132963
	Magnesium	2000	+/-2000	U	2000	P	10/16/2024	15:50	LB132963
	Manganese	20.0	+/-20.0	U	20.0	P	10/16/2024	15:50	LB132963
	Nickel	40.0	+/-40.0	U	40.0	P	10/16/2024	15:50	LB132963
	Potassium	2000	+/-2000	U	2000	P	10/16/2024	15:50	LB132963
	Selenium	20.0	+/-20.0	U	20.0	P	10/16/2024	15:50	LB132963
	Silver	10.0	+/-10.0	U	10.0	P	10/16/2024	15:50	LB132963
	Sodium	2000	+/-2000	U	2000	P	10/16/2024	15:50	LB132963
	Thallium	40.0	+/-40.0	U	40.0	P	10/16/2024	15:50	LB132963
	Vanadium	40.0	+/-40.0	U	40.0	P	10/16/2024	15:50	LB132963
	Zinc	40.0	+/-40.0	U	40.0	P	10/16/2024	15:50	LB132963
CCB06	Aluminum	100	+/-100	U	100	P	10/16/2024	16:43	LB132963
	Antimony	50.0	+/-50.0	U	50.0	P	10/16/2024	16:43	LB132963
	Arsenic	20.0	+/-20.0	U	20.0	P	10/16/2024	16:43	LB132963
	Barium	100	+/-100	U	100	P	10/16/2024	16:43	LB132963
	Beryllium	6.00	+/-6.00	U	6.00	P	10/16/2024	16:43	LB132963
	Cadmium	6.00	+/-6.00	U	6.00	P	10/16/2024	16:43	LB132963
	Calcium	2000	+/-2000	U	2000	P	10/16/2024	16:43	LB132963

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/16/2024	16:43	LB132963
	Cobalt	30.0	+/-30.0	U	30.0	P	10/16/2024	16:43	LB132963
	Copper	20.0	+/-20.0	U	20.0	P	10/16/2024	16:43	LB132963
	Iron	100	+/-100	U	100	P	10/16/2024	16:43	LB132963
	Lead	12.0	+/-12.0	U	12.0	P	10/16/2024	16:43	LB132963
	Magnesium	2000	+/-2000	U	2000	P	10/16/2024	16:43	LB132963
	Manganese	20.0	+/-20.0	U	20.0	P	10/16/2024	16:43	LB132963
	Nickel	40.0	+/-40.0	U	40.0	P	10/16/2024	16:43	LB132963
	Potassium	2000	+/-2000	U	2000	P	10/16/2024	16:43	LB132963
	Selenium	20.0	+/-20.0	U	20.0	P	10/16/2024	16:43	LB132963
	Silver	10.0	+/-10.0	U	10.0	P	10/16/2024	16:43	LB132963
	Sodium	2000	+/-2000	U	2000	P	10/16/2024	16:43	LB132963
	Thallium	40.0	+/-40.0	U	40.0	P	10/16/2024	16:43	LB132963
	Vanadium	40.0	+/-40.0	U	40.0	P	10/16/2024	16:43	LB132963
	Zinc	40.0	+/-40.0	U	40.0	P	10/16/2024	16:43	LB132963
CCB07	Aluminum	100	+/-100	U	100	P	10/16/2024	18:16	LB132963
	Antimony	50.0	+/-50.0	U	50.0	P	10/16/2024	18:16	LB132963
	Arsenic	20.0	+/-20.0	U	20.0	P	10/16/2024	18:16	LB132963
	Barium	100	+/-100	U	100	P	10/16/2024	18:16	LB132963
	Beryllium	6.00	+/-6.00	U	6.00	P	10/16/2024	18:16	LB132963
	Cadmium	6.00	+/-6.00	U	6.00	P	10/16/2024	18:16	LB132963
	Calcium	2000	+/-2000	U	2000	P	10/16/2024	18:16	LB132963
	Chromium	10.0	+/-10.0	U	10.0	P	10/16/2024	18:16	LB132963
	Cobalt	30.0	+/-30.0	U	30.0	P	10/16/2024	18:16	LB132963
	Copper	20.0	+/-20.0	U	20.0	P	10/16/2024	18:16	LB132963
	Iron	100	+/-100	U	100	P	10/16/2024	18:16	LB132963
	Lead	12.0	+/-12.0	U	12.0	P	10/16/2024	18:16	LB132963
	Magnesium	2000	+/-2000	U	2000	P	10/16/2024	18:16	LB132963
	Manganese	20.0	+/-20.0	U	20.0	P	10/16/2024	18:16	LB132963
	Nickel	40.0	+/-40.0	U	40.0	P	10/16/2024	18:16	LB132963
	Potassium	2000	+/-2000	U	2000	P	10/16/2024	18:16	LB132963
	Selenium	20.0	+/-20.0	U	20.0	P	10/16/2024	18:16	LB132963
	Silver	10.0	+/-10.0	U	10.0	P	10/16/2024	18:16	LB132963
	Sodium	683	+/-2000	J	2000	P	10/16/2024	18:16	LB132963
	Thallium	40.0	+/-40.0	U	40.0	P	10/16/2024	18:16	LB132963
	Vanadium	40.0	+/-40.0	U	40.0	P	10/16/2024	18:16	LB132963
	Zinc	40.0	+/-40.0	U	40.0	P	10/16/2024	18:16	LB132963
CCB08	Aluminum	100	+/-100	U	100	P	10/16/2024	18:50	LB132963
	Antimony	50.0	+/-50.0	U	50.0	P	10/16/2024	18:50	LB132963

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/16/2024	18:50	LB132963
	Barium	100	+/-100	U	100	P	10/16/2024	18:50	LB132963
	Beryllium	6.00	+/-6.00	U	6.00	P	10/16/2024	18:50	LB132963
	Cadmium	6.00	+/-6.00	U	6.00	P	10/16/2024	18:50	LB132963
	Calcium	2000	+/-2000	U	2000	P	10/16/2024	18:50	LB132963
	Chromium	10.0	+/-10.0	U	10.0	P	10/16/2024	18:50	LB132963
	Cobalt	30.0	+/-30.0	U	30.0	P	10/16/2024	18:50	LB132963
	Copper	20.0	+/-20.0	U	20.0	P	10/16/2024	18:50	LB132963
	Iron	100	+/-100	U	100	P	10/16/2024	18:50	LB132963
	Lead	12.0	+/-12.0	U	12.0	P	10/16/2024	18:50	LB132963
	Magnesium	2000	+/-2000	U	2000	P	10/16/2024	18:50	LB132963
	Manganese	20.0	+/-20.0	U	20.0	P	10/16/2024	18:50	LB132963
	Nickel	40.0	+/-40.0	U	40.0	P	10/16/2024	18:50	LB132963
	Potassium	2000	+/-2000	U	2000	P	10/16/2024	18:50	LB132963
	Selenium	20.0	+/-20.0	U	20.0	P	10/16/2024	18:50	LB132963
	Silver	10.0	+/-10.0	U	10.0	P	10/16/2024	18:50	LB132963
	Sodium	543	+/-2000	J	2000	P	10/16/2024	18:50	LB132963
	Thallium	40.0	+/-40.0	U	40.0	P	10/16/2024	18:50	LB132963
	Vanadium	40.0	+/-40.0	U	40.0	P	10/16/2024	18:50	LB132963
	Zinc	40.0	+/-40.0	U	40.0	P	10/16/2024	18:50	LB132963

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/23/2024	15:16	LB133086
	Antimony	50.0	+/-50.0	U	50.0	P	10/23/2024	15:16	LB133086
	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	15:16	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	15:16	LB133086
	Beryllium	6.00	+/-6.00	U	6.00	P	10/23/2024	15:16	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	15:16	LB133086
	Calcium	2000	+/-2000	U	2000	P	10/23/2024	15:16	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	15:16	LB133086
	Cobalt	30.0	+/-30.0	U	30.0	P	10/23/2024	15:16	LB133086
	Copper	20.0	+/-20.0	U	20.0	P	10/23/2024	15:16	LB133086
	Iron	100	+/-100	U	100	P	10/23/2024	15:16	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	15:16	LB133086
	Magnesium	2000	+/-2000	U	2000	P	10/23/2024	15:16	LB133086
	Manganese	20.0	+/-20.0	U	20.0	P	10/23/2024	15:16	LB133086
	Nickel	40.0	+/-40.0	U	40.0	P	10/23/2024	15:16	LB133086
	Potassium	2000	+/-2000	U	2000	P	10/23/2024	15:16	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	15:16	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	15:16	LB133086
	Sodium	2000	+/-2000	U	2000	P	10/23/2024	15:16	LB133086
	Thallium	40.0	+/-40.0	U	40.0	P	10/23/2024	15:16	LB133086
	Vanadium	40.0	+/-40.0	U	40.0	P	10/23/2024	15:16	LB133086
	Zinc	40.0	+/-40.0	U	40.0	P	10/23/2024	15:16	LB133086

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/23/2024	16:02	LB133086
	Antimony	4.83	+/-50.0	J	50.0	P	10/23/2024	16:02	LB133086
	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	16:02	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	16:02	LB133086
	Beryllium	6.00	+/-6.00	U	6.00	P	10/23/2024	16:02	LB133086
	Cadmium	1.78	+/-6.00	J	6.00	P	10/23/2024	16:02	LB133086
	Calcium	2000	+/-2000	U	2000	P	10/23/2024	16:02	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	16:02	LB133086
	Cobalt	1.85	+/-30.0	J	30.0	P	10/23/2024	16:02	LB133086
	Copper	20.0	+/-20.0	U	20.0	P	10/23/2024	16:02	LB133086
	Iron	100	+/-100	U	100	P	10/23/2024	16:02	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	16:02	LB133086
	Magnesium	2000	+/-2000	U	2000	P	10/23/2024	16:02	LB133086
	Manganese	20.0	+/-20.0	U	20.0	P	10/23/2024	16:02	LB133086
	Nickel	1.75	+/-40.0	J	40.0	P	10/23/2024	16:02	LB133086
	Potassium	2000	+/-2000	U	2000	P	10/23/2024	16:02	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	16:02	LB133086
	Silver	1.20	+/-10.0	J	10.0	P	10/23/2024	16:02	LB133086
	Sodium	2000	+/-2000	U	2000	P	10/23/2024	16:02	LB133086
	Thallium	40.0	+/-40.0	U	40.0	P	10/23/2024	16:02	LB133086
	Vanadium	40.0	+/-40.0	U	40.0	P	10/23/2024	16:02	LB133086
	Zinc	40.0	+/-40.0	U	40.0	P	10/23/2024	16:02	LB133086
CCB02	Aluminum	100	+/-100	U	100	P	10/23/2024	16:52	LB133086
	Antimony	50.0	+/-50.0	U	50.0	P	10/23/2024	16:52	LB133086
	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	16:52	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	16:52	LB133086
	Beryllium	6.00	+/-6.00	U	6.00	P	10/23/2024	16:52	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	16:52	LB133086
	Calcium	2000	+/-2000	U	2000	P	10/23/2024	16:52	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	16:52	LB133086
	Cobalt	30.0	+/-30.0	U	30.0	P	10/23/2024	16:52	LB133086
	Copper	20.0	+/-20.0	U	20.0	P	10/23/2024	16:52	LB133086
	Iron	100	+/-100	U	100	P	10/23/2024	16:52	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	16:52	LB133086
	Magnesium	2000	+/-2000	U	2000	P	10/23/2024	16:52	LB133086
	Manganese	20.0	+/-20.0	U	20.0	P	10/23/2024	16:52	LB133086
	Nickel	40.0	+/-40.0	U	40.0	P	10/23/2024	16:52	LB133086
	Potassium	2000	+/-2000	U	2000	P	10/23/2024	16:52	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	16:52	LB133086

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/23/2024	16:52	LB133086
	Sodium	2000	+/-2000	U	2000	P	10/23/2024	16:52	LB133086
	Thallium	40.0	+/-40.0	U	40.0	P	10/23/2024	16:52	LB133086
	Vanadium	40.0	+/-40.0	U	40.0	P	10/23/2024	16:52	LB133086
	Zinc	40.0	+/-40.0	U	40.0	P	10/23/2024	16:52	LB133086
CCB03	Aluminum	100	+/-100	U	100	P	10/23/2024	17:46	LB133086
	Antimony	50.0	+/-50.0	U	50.0	P	10/23/2024	17:46	LB133086
	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	17:46	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	17:46	LB133086
	Beryllium	6.00	+/-6.00	U	6.00	P	10/23/2024	17:46	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	17:46	LB133086
	Calcium	2000	+/-2000	U	2000	P	10/23/2024	17:46	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	17:46	LB133086
	Cobalt	30.0	+/-30.0	U	30.0	P	10/23/2024	17:46	LB133086
	Copper	20.0	+/-20.0	U	20.0	P	10/23/2024	17:46	LB133086
	Iron	100	+/-100	U	100	P	10/23/2024	17:46	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	17:46	LB133086
	Magnesium	2000	+/-2000	U	2000	P	10/23/2024	17:46	LB133086
	Manganese	20.0	+/-20.0	U	20.0	P	10/23/2024	17:46	LB133086
	Nickel	40.0	+/-40.0	U	40.0	P	10/23/2024	17:46	LB133086
	Potassium	2000	+/-2000	U	2000	P	10/23/2024	17:46	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	17:46	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	17:46	LB133086
	Sodium	2000	+/-2000	U	2000	P	10/23/2024	17:46	LB133086
	Thallium	40.0	+/-40.0	U	40.0	P	10/23/2024	17:46	LB133086
	Vanadium	40.0	+/-40.0	U	40.0	P	10/23/2024	17:46	LB133086
	Zinc	40.0	+/-40.0	U	40.0	P	10/23/2024	17:46	LB133086
CCB04	Aluminum	100	+/-100	U	100	P	10/23/2024	18:36	LB133086
	Antimony	50.0	+/-50.0	U	50.0	P	10/23/2024	18:36	LB133086
	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	18:36	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	18:36	LB133086
	Beryllium	6.00	+/-6.00	U	6.00	P	10/23/2024	18:36	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	18:36	LB133086
	Calcium	2000	+/-2000	U	2000	P	10/23/2024	18:36	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	18:36	LB133086
	Cobalt	30.0	+/-30.0	U	30.0	P	10/23/2024	18:36	LB133086
	Copper	20.0	+/-20.0	U	20.0	P	10/23/2024	18:36	LB133086
	Iron	100	+/-100	U	100	P	10/23/2024	18:36	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	18:36	LB133086

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/23/2024	18:36	LB133086
	Manganese	20.0	+/-20.0	U	20.0	P	10/23/2024	18:36	LB133086
	Nickel	40.0	+/-40.0	U	40.0	P	10/23/2024	18:36	LB133086
	Potassium	2000	+/-2000	U	2000	P	10/23/2024	18:36	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	18:36	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	18:36	LB133086
	Sodium	2000	+/-2000	U	2000	P	10/23/2024	18:36	LB133086
	Thallium	40.0	+/-40.0	U	40.0	P	10/23/2024	18:36	LB133086
	Vanadium	40.0	+/-40.0	U	40.0	P	10/23/2024	18:36	LB133086
	Zinc	40.0	+/-40.0	U	40.0	P	10/23/2024	18:36	LB133086
CCB05	Aluminum	100	+/-100	U	100	P	10/23/2024	19:28	LB133086
	Antimony	50.0	+/-50.0	U	50.0	P	10/23/2024	19:28	LB133086
	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	19:28	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	19:28	LB133086
	Beryllium	6.00	+/-6.00	U	6.00	P	10/23/2024	19:28	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	19:28	LB133086
	Calcium	2000	+/-2000	U	2000	P	10/23/2024	19:28	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	19:28	LB133086
	Cobalt	30.0	+/-30.0	U	30.0	P	10/23/2024	19:28	LB133086
	Copper	20.0	+/-20.0	U	20.0	P	10/23/2024	19:28	LB133086
	Iron	100	+/-100	U	100	P	10/23/2024	19:28	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	19:28	LB133086
	Magnesium	2000	+/-2000	U	2000	P	10/23/2024	19:28	LB133086
	Manganese	20.0	+/-20.0	U	20.0	P	10/23/2024	19:28	LB133086
	Nickel	40.0	+/-40.0	U	40.0	P	10/23/2024	19:28	LB133086
	Potassium	2000	+/-2000	U	2000	P	10/23/2024	19:28	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	19:28	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	19:28	LB133086
	Sodium	2000	+/-2000	U	2000	P	10/23/2024	19:28	LB133086
	Thallium	40.0	+/-40.0	U	40.0	P	10/23/2024	19:28	LB133086
	Vanadium	40.0	+/-40.0	U	40.0	P	10/23/2024	19:28	LB133086
	Zinc	40.0	+/-40.0	U	40.0	P	10/23/2024	19:28	LB133086
CCB06	Aluminum	100	+/-100	U	100	P	10/23/2024	20:21	LB133086
	Antimony	50.0	+/-50.0	U	50.0	P	10/23/2024	20:21	LB133086
	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	20:21	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	20:21	LB133086
	Beryllium	6.00	+/-6.00	U	6.00	P	10/23/2024	20:21	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	20:21	LB133086
	Calcium	2000	+/-2000	U	2000	P	10/23/2024	20:21	LB133086

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/23/2024	20:21	LB133086
	Cobalt	30.0	+/-30.0	U	30.0	P	10/23/2024	20:21	LB133086
	Copper	20.0	+/-20.0	U	20.0	P	10/23/2024	20:21	LB133086
	Iron	100	+/-100	U	100	P	10/23/2024	20:21	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	20:21	LB133086
	Magnesium	2000	+/-2000	U	2000	P	10/23/2024	20:21	LB133086
	Manganese	20.0	+/-20.0	U	20.0	P	10/23/2024	20:21	LB133086
	Nickel	40.0	+/-40.0	U	40.0	P	10/23/2024	20:21	LB133086
	Potassium	2000	+/-2000	U	2000	P	10/23/2024	20:21	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	20:21	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	20:21	LB133086
	Sodium	2000	+/-2000	U	2000	P	10/23/2024	20:21	LB133086
	Thallium	40.0	+/-40.0	U	40.0	P	10/23/2024	20:21	LB133086
	Vanadium	40.0	+/-40.0	U	40.0	P	10/23/2024	20:21	LB133086
	Zinc	40.0	+/-40.0	U	40.0	P	10/23/2024	20:21	LB133086
CCB07	Aluminum	100	+/-100	U	100	P	10/23/2024	21:34	LB133086
	Antimony	50.0	+/-50.0	U	50.0	P	10/23/2024	21:34	LB133086
	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	21:34	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	21:34	LB133086
	Beryllium	6.00	+/-6.00	U	6.00	P	10/23/2024	21:34	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	21:34	LB133086
	Calcium	2000	+/-2000	U	2000	P	10/23/2024	21:34	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	21:34	LB133086
	Cobalt	30.0	+/-30.0	U	30.0	P	10/23/2024	21:34	LB133086
	Copper	20.0	+/-20.0	U	20.0	P	10/23/2024	21:34	LB133086
	Iron	100	+/-100	U	100	P	10/23/2024	21:34	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	21:34	LB133086
	Magnesium	2000	+/-2000	U	2000	P	10/23/2024	21:34	LB133086
	Manganese	20.0	+/-20.0	U	20.0	P	10/23/2024	21:34	LB133086
	Nickel	40.0	+/-40.0	U	40.0	P	10/23/2024	21:34	LB133086
	Potassium	2000	+/-2000	U	2000	P	10/23/2024	21:34	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	21:34	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	21:34	LB133086
	Sodium	2000	+/-2000	U	2000	P	10/23/2024	21:34	LB133086
	Thallium	40.0	+/-40.0	U	40.0	P	10/23/2024	21:34	LB133086
	Vanadium	40.0	+/-40.0	U	40.0	P	10/23/2024	21:34	LB133086
	Zinc	40.0	+/-40.0	U	40.0	P	10/23/2024	21:34	LB133086
CCB08	Aluminum	100	+/-100	U	100	P	10/23/2024	22:25	LB133086
	Antimony	50.0	+/-50.0	U	50.0	P	10/23/2024	22:25	LB133086

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/23/2024	22:25	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	22:25	LB133086
	Beryllium	6.00	+/-6.00	U	6.00	P	10/23/2024	22:25	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	22:25	LB133086
	Calcium	2000	+/-2000	U	2000	P	10/23/2024	22:25	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	22:25	LB133086
	Cobalt	30.0	+/-30.0	U	30.0	P	10/23/2024	22:25	LB133086
	Copper	20.0	+/-20.0	U	20.0	P	10/23/2024	22:25	LB133086
	Iron	100	+/-100	U	100	P	10/23/2024	22:25	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	22:25	LB133086
	Magnesium	2000	+/-2000	U	2000	P	10/23/2024	22:25	LB133086
	Manganese	20.0	+/-20.0	U	20.0	P	10/23/2024	22:25	LB133086
	Nickel	40.0	+/-40.0	U	40.0	P	10/23/2024	22:25	LB133086
	Potassium	2000	+/-2000	U	2000	P	10/23/2024	22:25	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	22:25	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	22:25	LB133086
	Sodium	2000	+/-2000	U	2000	P	10/23/2024	22:25	LB133086
	Thallium	40.0	+/-40.0	U	40.0	P	10/23/2024	22:25	LB133086
	Vanadium	40.0	+/-40.0	U	40.0	P	10/23/2024	22:25	LB133086
	Zinc	40.0	+/-40.0	U	40.0	P	10/23/2024	22:25	LB133086

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	11/04/2024	17:47	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	17:47	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	17:47	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	17:47	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	17:47	LB133296
	Cadmium	6.00	+/-6.00	U	6.00	P	11/04/2024	17:47	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	17:47	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	17:47	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	17:47	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	17:47	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	17:47	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	17:47	LB133296
	Magnesium	2000	+/-2000	U	2000	P	11/04/2024	17:47	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	17:47	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	17:47	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	17:47	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	17:47	LB133296
	Silver	10.0	+/-10.0	U	10.0	P	11/04/2024	17:47	LB133296
	Sodium	2000	+/-2000	U	2000	P	11/04/2024	17:47	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	17:47	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	17:47	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	17:47	LB133296

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	11/04/2024	18:16	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	18:16	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	18:16	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	18:16	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	18:16	LB133296
	Cadmium	6.00	+/-6.00	U	6.00	P	11/04/2024	18:16	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	18:16	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	18:16	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	18:16	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	18:16	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	18:16	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	18:16	LB133296
	Magnesium	2000	+/-2000	U	2000	P	11/04/2024	18:16	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	18:16	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	18:16	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	18:16	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	18:16	LB133296
	Silver	10.0	+/-10.0	U	10.0	P	11/04/2024	18:16	LB133296
	Sodium	2000	+/-2000	U	2000	P	11/04/2024	18:16	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	18:16	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	18:16	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	18:16	LB133296
CCB02	Aluminum	100	+/-100	U	100	P	11/04/2024	19:07	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	19:07	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	19:07	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	19:07	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	19:07	LB133296
	Cadmium	6.00	+/-6.00	U	6.00	P	11/04/2024	19:07	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	19:07	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	19:07	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	19:07	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	19:07	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	19:07	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	19:07	LB133296
	Magnesium	2000	+/-2000	U	2000	P	11/04/2024	19:07	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	19:07	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	19:07	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	19:07	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	19:07	LB133296

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	11/04/2024	19:07	LB133296
	Sodium	2000	+/-2000	U	2000	P	11/04/2024	19:07	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	19:07	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	19:07	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	19:07	LB133296
CCB03	Aluminum	100	+/-100	U	100	P	11/04/2024	19:58	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	19:58	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	19:58	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	19:58	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	19:58	LB133296
	Cadmium	6.00	+/-6.00	U	6.00	P	11/04/2024	19:58	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	19:58	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	19:58	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	19:58	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	19:58	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	19:58	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	19:58	LB133296
	Magnesium	2000	+/-2000	U	2000	P	11/04/2024	19:58	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	19:58	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	19:58	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	19:58	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	19:58	LB133296
	Silver	10.0	+/-10.0	U	10.0	P	11/04/2024	19:58	LB133296
	Sodium	2000	+/-2000	U	2000	P	11/04/2024	19:58	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	19:58	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	19:58	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	19:58	LB133296
CCB04	Aluminum	100	+/-100	U	100	P	11/04/2024	21:11	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	21:11	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	21:11	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	21:11	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	21:11	LB133296
	Cadmium	0.19	+/-6.00	J	6.00	P	11/04/2024	21:11	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	21:11	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	21:11	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	21:11	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	21:11	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	21:11	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	21:11	LB133296

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	11/04/2024	21:11	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	21:11	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	21:11	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	21:11	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	21:11	LB133296
	Silver	10.0	+/-10.0	U	10.0	P	11/04/2024	21:11	LB133296
	Sodium	662	+/-2000	J	2000	P	11/04/2024	21:11	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	21:11	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	21:11	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	21:11	LB133296
CCB05	Aluminum	100	+/-100	U	100	P	11/04/2024	21:51	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	21:51	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	21:51	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	21:51	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	21:51	LB133296
	Cadmium	0.19	+/-6.00	J	6.00	P	11/04/2024	21:51	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	21:51	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	21:51	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	21:51	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	21:51	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	21:51	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	21:51	LB133296
	Magnesium	2000	+/-2000	U	2000	P	11/04/2024	21:51	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	21:51	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	21:51	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	21:51	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	21:51	LB133296
	Silver	10.0	+/-10.0	U	10.0	P	11/04/2024	21:51	LB133296
	Sodium	669	+/-2000	J	2000	P	11/04/2024	21:51	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	21:51	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	21:51	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	21:51	LB133296

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164160BL		**WATER**		**Batch Number:**	**PB164160**		**Prep Date:**	**10/15/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	10/15/2024	13:47	LB132940

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164194BL		**SOLID**		**Batch Number:**	**PB164194**		**Prep Date:**	**10/15/2024**	
	Mercury	0.013	<0.013	U	0.013	CV	10/16/2024	14:15	LB132960

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164156BL		**SOLID**		**Batch Number:**	**PB164156**		**Prep Date:**	**10/15/2024**	
	Aluminum	4.78	<4.78	U	4.78	P	10/16/2024	14:11	LB132963
	Antimony	2.39	<2.39	U	2.39	P	10/16/2024	14:11	LB132963
	Arsenic	0.96	<0.96	U	0.96	P	10/16/2024	14:11	LB132963
	Barium	4.78	<4.78	U	4.78	P	10/16/2024	14:11	LB132963
	Beryllium	0.29	<0.29	U	0.29	P	10/16/2024	14:11	LB132963
	Cadmium	0.29	<0.29	U	0.29	P	10/16/2024	14:11	LB132963
	Calcium	95.7	<95.7	U	95.7	P	10/16/2024	14:11	LB132963
	Chromium	0.48	<0.48	U	0.48	P	10/16/2024	14:11	LB132963
	Cobalt	1.44	<1.44	U	1.44	P	10/16/2024	14:11	LB132963
	Copper	0.96	<0.96	U	0.96	P	10/16/2024	14:11	LB132963
	Iron	4.78	<4.78	U	4.78	P	10/16/2024	14:11	LB132963
	Lead	0.57	<0.57	U	0.57	P	10/16/2024	14:11	LB132963
	Magnesium	95.7	<95.7	U	95.7	P	10/16/2024	14:11	LB132963
	Manganese	0.96	<0.96	U	0.96	P	10/16/2024	14:11	LB132963
	Nickel	1.91	<1.91	U	1.91	P	10/16/2024	14:11	LB132963
	Potassium	95.7	<95.7	U	95.7	P	10/16/2024	14:11	LB132963
	Selenium	0.96	<0.96	U	0.96	P	10/16/2024	14:11	LB132963
	Silver	0.48	<0.48	U	0.48	P	10/16/2024	14:11	LB132963
	Sodium	95.7	<95.7	U	95.7	P	10/16/2024	14:11	LB132963
	Thallium	1.91	<1.91	U	1.91	P	10/16/2024	14:11	LB132963
	Vanadium	1.91	<1.91	U	1.91	P	10/16/2024	14:11	LB132963
	Zinc	1.91	<1.91	U	1.91	P	10/16/2024	14:11	LB132963

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164174BL		**WATER**		**Batch Number:**	**PB164174**		**Prep Date:**	**10/16/2024**	
	Aluminum	50.0	<50.0	U	50.0	P	10/23/2024	19:07	LB133086
	Antimony	25.0	<25.0	U	25.0	P	10/23/2024	19:07	LB133086
	Arsenic	10.0	<10.0	U	10.0	P	10/23/2024	19:07	LB133086
	Barium	50.0	<50.0	U	50.0	P	10/23/2024	19:07	LB133086
	Beryllium	3.00	<3.00	U	3.00	P	10/23/2024	19:07	LB133086
	Cadmium	3.00	<3.00	U	3.00	P	10/23/2024	19:07	LB133086
	Calcium	1000	<1000	U	1000	P	10/23/2024	19:07	LB133086
	Chromium	5.00	<5.00	U	5.00	P	10/23/2024	19:07	LB133086
	Cobalt	15.0	<15.0	U	15.0	P	10/23/2024	19:07	LB133086
	Copper	10.0	<10.0	U	10.0	P	10/23/2024	19:07	LB133086
	Iron	50.0	<50.0	U	50.0	P	10/23/2024	19:07	LB133086
	Lead	6.00	<6.00	U	6.00	P	10/23/2024	19:07	LB133086
	Magnesium	1000	<1000	U	1000	P	10/23/2024	19:07	LB133086
	Manganese	10.0	<10.0	U	10.0	P	10/23/2024	19:07	LB133086
	Nickel	20.0	<20.0	U	20.0	P	10/23/2024	19:07	LB133086

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Instrument: P4

Potassium	1000	<1000	U	1000	P	10/23/2024	19:07	LB133086
Selenium	10.0	<10.0	U	10.0	P	10/23/2024	19:07	LB133086
Silver	5.00	<5.00	U	5.00	P	10/23/2024	19:07	LB133086
Sodium	1000	<1000	U	1000	P	10/23/2024	19:07	LB133086
Thallium	20.0	<20.0	U	20.0	P	10/23/2024	19:07	LB133086
Vanadium	20.0	<20.0	U	20.0	P	10/23/2024	19:07	LB133086
Zinc	20.0	<20.0	U	20.0	P	10/23/2024	19:07	LB133086

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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
ICV37	Mercury	3.94	4.0	98	90 - 110	CV	10/15/2024	12:31	LB132940

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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
CCV21	Mercury	5.15	5.0	103	90 - 110	CV	10/15/2024	12:36	LB132940
CCV22	Mercury	5.13	5.0	102	90 - 110	CV	10/15/2024	13:06	LB132940
CCV23	Mercury	4.94	5.0	99	90 - 110	CV	10/15/2024	13:33	LB132940
CCV24	Mercury	4.88	5.0	98	90 - 110	CV	10/15/2024	14:00	LB132940
CCV25	Mercury	4.72	5.0	94	90 - 110	CV	10/15/2024	14:28	LB132940

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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
ICV39	Mercury	4.08	4.0	102	90 - 110	CV	10/16/2024	13:53	LB132960

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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
CCV29	Mercury	5.12	5.0	102	90 - 110	CV	10/16/2024	13:57	LB132960
CCV30	Mercury	5.21	5.0	104	90 - 110	CV	10/16/2024	14:31	LB132960
CCV31	Mercury	5.25	5.0	105	90 - 110	CV	10/16/2024	14:54	LB132960

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	2530	2500	101	90 - 110	P	10/16/2024	11:37	LB132963
	Antimony	996	1000	100	90 - 110	P	10/16/2024	11:37	LB132963
	Arsenic	966	1000	97	90 - 110	P	10/16/2024	11:37	LB132963
	Barium	514	520	99	90 - 110	P	10/16/2024	11:37	LB132963
	Beryllium	493	510	97	90 - 110	P	10/16/2024	11:37	LB132963
	Cadmium	487	510	96	90 - 110	P	10/16/2024	11:37	LB132963
	Calcium	10100	10000	101	90 - 110	P	10/16/2024	11:37	LB132963
	Chromium	543	520	104	90 - 110	P	10/16/2024	11:37	LB132963
	Cobalt	519	520	100	90 - 110	P	10/16/2024	11:37	LB132963
	Copper	529	510	104	90 - 110	P	10/16/2024	11:37	LB132963
	Iron	10600	10000	106	90 - 110	P	10/16/2024	11:37	LB132963
	Lead	974	1000	97	90 - 110	P	10/16/2024	11:37	LB132963
	Magnesium	5830	6000	97	90 - 110	P	10/16/2024	11:37	LB132963
	Manganese	513	520	99	90 - 110	P	10/16/2024	11:37	LB132963
	Nickel	519	530	98	90 - 110	P	10/16/2024	11:37	LB132963
	Potassium	10500	9900	106	90 - 110	P	10/16/2024	11:37	LB132963
	Selenium	990	1000	99	90 - 110	P	10/16/2024	11:37	LB132963
	Silver	266	250	106	90 - 110	P	10/16/2024	11:37	LB132963
	Sodium	10100	10000	101	90 - 110	P	10/16/2024	11:37	LB132963
	Thallium	1010	1000	101	90 - 110	P	10/16/2024	11:37	LB132963
	Vanadium	499	500	100	90 - 110	P	10/16/2024	11:37	LB132963
	Zinc	1080	1000	108	90 - 110	P	10/16/2024	11:37	LB132963

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	111	100	111	80 - 120	P	10/16/2024	11:44	LB132963
	Antimony	48.7	50.0	97	80 - 120	P	10/16/2024	11:44	LB132963
	Arsenic	19.3	20.0	97	80 - 120	P	10/16/2024	11:44	LB132963
	Barium	96.9	100	97	80 - 120	P	10/16/2024	11:44	LB132963
	Beryllium	6.33	6.0	106	80 - 120	P	10/16/2024	11:44	LB132963
	Cadmium	5.85	6.0	98	80 - 120	P	10/16/2024	11:44	LB132963
	Calcium	2030	2000	102	80 - 120	P	10/16/2024	11:44	LB132963
	Chromium	10.4	10.0	104	80 - 120	P	10/16/2024	11:44	LB132963
	Cobalt	29.4	30.0	98	80 - 120	P	10/16/2024	11:44	LB132963
	Copper	21.9	20.0	110	80 - 120	P	10/16/2024	11:44	LB132963
	Iron	113	100	113	80 - 120	P	10/16/2024	11:44	LB132963
	Lead	13.8	12.0	115	80 - 120	P	10/16/2024	11:44	LB132963
	Magnesium	2150	2000	108	80 - 120	P	10/16/2024	11:44	LB132963
	Manganese	20.5	20.0	103	80 - 120	P	10/16/2024	11:44	LB132963
	Nickel	39.0	40.0	98	80 - 120	P	10/16/2024	11:44	LB132963
	Potassium	1860	2000	93	80 - 120	P	10/16/2024	11:44	LB132963
	Selenium	19.5	20.0	98	80 - 120	P	10/16/2024	11:44	LB132963
	Silver	10.9	10.0	109	80 - 120	P	10/16/2024	11:44	LB132963
	Sodium	1850	2000	92	80 - 120	P	10/16/2024	11:44	LB132963
	Thallium	37.7	40.0	94	80 - 120	P	10/16/2024	11:44	LB132963
	Vanadium	41.2	40.0	103	80 - 120	P	10/16/2024	11:44	LB132963
	Zinc	45.4	40.0	114	80 - 120	P	10/16/2024	11:44	LB132963

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	11000	10000	110	90 - 110	P	10/16/2024	12:14	LB132963
	Antimony	5260	5000	105	90 - 110	P	10/16/2024	12:14	LB132963
	Arsenic	5200	5000	104	90 - 110	P	10/16/2024	12:14	LB132963
	Barium	10600	10000	106	90 - 110	P	10/16/2024	12:14	LB132963
	Beryllium	270	250	108	90 - 110	P	10/16/2024	12:14	LB132963
	Cadmium	2540	2500	102	90 - 110	P	10/16/2024	12:14	LB132963
	Calcium	26500	25000	106	90 - 110	P	10/16/2024	12:14	LB132963
	Chromium	1040	1000	104	90 - 110	P	10/16/2024	12:14	LB132963
	Cobalt	2540	2500	102	90 - 110	P	10/16/2024	12:14	LB132963
	Copper	1310	1250	105	90 - 110	P	10/16/2024	12:14	LB132963
	Iron	5100	5000	102	90 - 110	P	10/16/2024	12:14	LB132963
	Lead	5080	5000	102	90 - 110	P	10/16/2024	12:14	LB132963
	Magnesium	26800	25000	107	90 - 110	P	10/16/2024	12:14	LB132963
	Manganese	2640	2500	105	90 - 110	P	10/16/2024	12:14	LB132963
	Nickel	2550	2500	102	90 - 110	P	10/16/2024	12:14	LB132963
	Potassium	25700	25000	103	90 - 110	P	10/16/2024	12:14	LB132963
	Selenium	5300	5000	106	90 - 110	P	10/16/2024	12:14	LB132963
	Silver	1300	1250	104	90 - 110	P	10/16/2024	12:14	LB132963
	Sodium	25300	25000	101	90 - 110	P	10/16/2024	12:14	LB132963
	Thallium	5140	5000	103	90 - 110	P	10/16/2024	12:14	LB132963
	Vanadium	2710	2500	108	90 - 110	P	10/16/2024	12:14	LB132963
	Zinc	2720	2500	109	90 - 110	P	10/16/2024	12:14	LB132963
CCV02	Aluminum	10700	10000	107	90 - 110	P	10/16/2024	13:10	LB132963
	Antimony	5460	5000	109	90 - 110	P	10/16/2024	13:10	LB132963
	Arsenic	5420	5000	108	90 - 110	P	10/16/2024	13:10	LB132963
	Barium	10800	10000	108	90 - 110	P	10/16/2024	13:10	LB132963
	Beryllium	270	250	108	90 - 110	P	10/16/2024	13:10	LB132963
	Cadmium	2630	2500	105	90 - 110	P	10/16/2024	13:10	LB132963
	Calcium	26900	25000	108	90 - 110	P	10/16/2024	13:10	LB132963
	Chromium	1050	1000	105	90 - 110	P	10/16/2024	13:10	LB132963
	Cobalt	2630	2500	105	90 - 110	P	10/16/2024	13:10	LB132963
	Copper	1370	1250	110	90 - 110	P	10/16/2024	13:10	LB132963
	Iron	5130	5000	102	90 - 110	P	10/16/2024	13:10	LB132963
	Lead	5470	5000	110	90 - 110	P	10/16/2024	13:10	LB132963

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	27200	25000	109	90 - 110	P	10/16/2024	13:10	LB132963
	Manganese	2670	2500	107	90 - 110	P	10/16/2024	13:10	LB132963
	Nickel	2640	2500	106	90 - 110	P	10/16/2024	13:10	LB132963
	Potassium	25800	25000	103	90 - 110	P	10/16/2024	13:10	LB132963
	Selenium	5460	5000	109	90 - 110	P	10/16/2024	13:10	LB132963
	Silver	1310	1250	105	90 - 110	P	10/16/2024	13:10	LB132963
	Sodium	25200	25000	101	90 - 110	P	10/16/2024	13:10	LB132963
	Thallium	5390	5000	108	90 - 110	P	10/16/2024	13:10	LB132963
	Vanadium	2530	2500	101	90 - 110	P	10/16/2024	13:10	LB132963
	Zinc	2600	2500	104	90 - 110	P	10/16/2024	13:10	LB132963
CCV03	Aluminum	10600	10000	106	90 - 110	P	10/16/2024	14:03	LB132963
	Antimony	5240	5000	105	90 - 110	P	10/16/2024	14:03	LB132963
	Arsenic	5150	5000	103	90 - 110	P	10/16/2024	14:03	LB132963
	Barium	10700	10000	107	90 - 110	P	10/16/2024	14:03	LB132963
	Beryllium	234	250	94	90 - 110	P	10/16/2024	14:03	LB132963
	Cadmium	2560	2500	102	90 - 110	P	10/16/2024	14:03	LB132963
	Calcium	27100	25000	108	90 - 110	P	10/16/2024	14:03	LB132963
	Chromium	1050	1000	105	90 - 110	P	10/16/2024	14:03	LB132963
	Cobalt	2570	2500	103	90 - 110	P	10/16/2024	14:03	LB132963
	Copper	1310	1250	105	90 - 110	P	10/16/2024	14:03	LB132963
	Iron	5080	5000	102	90 - 110	P	10/16/2024	14:03	LB132963
	Lead	5130	5000	103	90 - 110	P	10/16/2024	14:03	LB132963
	Magnesium	27400	25000	110	90 - 110	P	10/16/2024	14:03	LB132963
	Manganese	2690	2500	108	90 - 110	P	10/16/2024	14:03	LB132963
	Nickel	2570	2500	103	90 - 110	P	10/16/2024	14:03	LB132963
	Potassium	25100	25000	100	90 - 110	P	10/16/2024	14:03	LB132963
	Selenium	5200	5000	104	90 - 110	P	10/16/2024	14:03	LB132963
	Silver	1310	1250	105	90 - 110	P	10/16/2024	14:03	LB132963
	Sodium	24400	25000	98	90 - 110	P	10/16/2024	14:03	LB132963
	Thallium	5330	5000	107	90 - 110	P	10/16/2024	14:03	LB132963
	Vanadium	2740	2500	110	90 - 110	P	10/16/2024	14:03	LB132963
	Zinc	2710	2500	108	90 - 110	P	10/16/2024	14:03	LB132963
CCV04	Aluminum	9820	10000	98	90 - 110	P	10/16/2024	14:55	LB132963
	Antimony	4990	5000	100	90 - 110	P	10/16/2024	14:55	LB132963

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	4980	5000	100	90 - 110	P	10/16/2024	14:55	LB132963
	Barium	10000	10000	100	90 - 110	P	10/16/2024	14:55	LB132963
	Beryllium	257	250	103	90 - 110	P	10/16/2024	14:55	LB132963
	Cadmium	2470	2500	99	90 - 110	P	10/16/2024	14:55	LB132963
	Calcium	25200	25000	101	90 - 110	P	10/16/2024	14:55	LB132963
	Chromium	989	1000	99	90 - 110	P	10/16/2024	14:55	LB132963
	Cobalt	2460	2500	98	90 - 110	P	10/16/2024	14:55	LB132963
	Copper	1260	1250	101	90 - 110	P	10/16/2024	14:55	LB132963
	Iron	4810	5000	96	90 - 110	P	10/16/2024	14:55	LB132963
	Lead	4940	5000	99	90 - 110	P	10/16/2024	14:55	LB132963
	Magnesium	25400	25000	102	90 - 110	P	10/16/2024	14:55	LB132963
	Manganese	2500	2500	100	90 - 110	P	10/16/2024	14:55	LB132963
	Nickel	2470	2500	99	90 - 110	P	10/16/2024	14:55	LB132963
	Potassium	23800	25000	95	90 - 110	P	10/16/2024	14:55	LB132963
	Selenium	5050	5000	101	90 - 110	P	10/16/2024	14:55	LB132963
	Silver	1230	1250	99	90 - 110	P	10/16/2024	14:55	LB132963
	Sodium	23000	25000	92	90 - 110	P	10/16/2024	14:55	LB132963
	Thallium	5090	5000	102	90 - 110	P	10/16/2024	14:55	LB132963
	Vanadium	2560	2500	102	90 - 110	P	10/16/2024	14:55	LB132963
	Zinc	2430	2500	97	90 - 110	P	10/16/2024	14:55	LB132963
CCV05	Aluminum	10100	10000	101	90 - 110	P	10/16/2024	15:46	LB132963
	Antimony	5000	5000	100	90 - 110	P	10/16/2024	15:46	LB132963
	Arsenic	4930	5000	98	90 - 110	P	10/16/2024	15:46	LB132963
	Barium	10000	10000	100	90 - 110	P	10/16/2024	15:46	LB132963
	Beryllium	272	250	109	90 - 110	P	10/16/2024	15:46	LB132963
	Cadmium	2430	2500	97	90 - 110	P	10/16/2024	15:46	LB132963
	Calcium	25600	25000	102	90 - 110	P	10/16/2024	15:46	LB132963
	Chromium	999	1000	100	90 - 110	P	10/16/2024	15:46	LB132963
	Cobalt	2430	2500	97	90 - 110	P	10/16/2024	15:46	LB132963
	Copper	1250	1250	100	90 - 110	P	10/16/2024	15:46	LB132963
	Iron	4730	5000	94	90 - 110	P	10/16/2024	15:46	LB132963
	Lead	4860	5000	97	90 - 110	P	10/16/2024	15:46	LB132963
	Magnesium	26000	25000	104	90 - 110	P	10/16/2024	15:46	LB132963
	Manganese	2540	2500	102	90 - 110	P	10/16/2024	15:46	LB132963

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	2440	2500	98	90 - 110	P	10/16/2024	15:46	LB132963
	Potassium	23500	25000	94	90 - 110	P	10/16/2024	15:46	LB132963
	Selenium	5000	5000	100	90 - 110	P	10/16/2024	15:46	LB132963
	Silver	1250	1250	100	90 - 110	P	10/16/2024	15:46	LB132963
	Sodium	22700	25000	91	90 - 110	P	10/16/2024	15:46	LB132963
	Thallium	4990	5000	100	90 - 110	P	10/16/2024	15:46	LB132963
	Vanadium	2600	2500	104	90 - 110	P	10/16/2024	15:46	LB132963
	Zinc	2580	2500	103	90 - 110	P	10/16/2024	15:46	LB132963
CCV06	Aluminum	11000	10000	110	90 - 110	P	10/16/2024	16:39	LB132963
	Antimony	5140	5000	103	90 - 110	P	10/16/2024	16:39	LB132963
	Arsenic	5050	5000	101	90 - 110	P	10/16/2024	16:39	LB132963
	Barium	10900	10000	109	90 - 110	P	10/16/2024	16:39	LB132963
	Beryllium	233	250	93	90 - 110	P	10/16/2024	16:39	LB132963
	Cadmium	2560	2500	102	90 - 110	P	10/16/2024	16:39	LB132963
	Calcium	27200	25000	109	90 - 110	P	10/16/2024	16:39	LB132963
	Chromium	1050	1000	105	90 - 110	P	10/16/2024	16:39	LB132963
	Cobalt	2570	2500	103	90 - 110	P	10/16/2024	16:39	LB132963
	Copper	1290	1250	103	90 - 110	P	10/16/2024	16:39	LB132963
	Iron	5180	5000	104	90 - 110	P	10/16/2024	16:39	LB132963
	Lead	5130	5000	103	90 - 110	P	10/16/2024	16:39	LB132963
	Magnesium	27400	25000	110	90 - 110	P	10/16/2024	16:39	LB132963
	Manganese	2710	2500	108	90 - 110	P	10/16/2024	16:39	LB132963
	Nickel	2560	2500	103	90 - 110	P	10/16/2024	16:39	LB132963
	Potassium	25300	25000	101	90 - 110	P	10/16/2024	16:39	LB132963
	Selenium	5090	5000	102	90 - 110	P	10/16/2024	16:39	LB132963
	Silver	1310	1250	105	90 - 110	P	10/16/2024	16:39	LB132963
	Sodium	24500	25000	98	90 - 110	P	10/16/2024	16:39	LB132963
	Thallium	5370	5000	108	90 - 110	P	10/16/2024	16:39	LB132963
	Vanadium	2750	2500	110	90 - 110	P	10/16/2024	16:39	LB132963
	Zinc	2270	2500	91	90 - 110	P	10/16/2024	16:39	LB132963
CCV07	Aluminum	10600	10000	106	90 - 110	P	10/16/2024	18:11	LB132963
	Antimony	4540	5000	91	90 - 110	P	10/16/2024	18:11	LB132963
	Arsenic	4940	5000	99	90 - 110	P	10/16/2024	18:11	LB132963
	Barium	9870	10000	99	90 - 110	P	10/16/2024	18:11	LB132963

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	248	250	99	90 - 110	P	10/16/2024	18:11	LB132963
	Cadmium	2400	2500	96	90 - 110	P	10/16/2024	18:11	LB132963
	Calcium	25400	25000	102	90 - 110	P	10/16/2024	18:11	LB132963
	Chromium	1080	1000	108	90 - 110	P	10/16/2024	18:11	LB132963
	Cobalt	2300	2500	92	90 - 110	P	10/16/2024	18:11	LB132963
	Copper	1190	1250	96	90 - 110	P	10/16/2024	18:11	LB132963
	Iron	5260	5000	105	90 - 110	P	10/16/2024	18:11	LB132963
	Lead	4640	5000	93	90 - 110	P	10/16/2024	18:11	LB132963
	Magnesium	26600	25000	107	90 - 110	P	10/16/2024	18:11	LB132963
	Manganese	2470	2500	99	90 - 110	P	10/16/2024	18:11	LB132963
	Nickel	2700	2500	108	90 - 110	P	10/16/2024	18:11	LB132963
	Potassium	24900	25000	100	90 - 110	P	10/16/2024	18:11	LB132963
	Selenium	4830	5000	97	90 - 110	P	10/16/2024	18:11	LB132963
	Silver	1370	1250	109	90 - 110	P	10/16/2024	18:11	LB132963
	Sodium	24100	25000	97	90 - 110	P	10/16/2024	18:11	LB132963
	Thallium	5120	5000	102	90 - 110	P	10/16/2024	18:11	LB132963
	Vanadium	2600	2500	104	90 - 110	P	10/16/2024	18:11	LB132963
	Zinc	2740	2500	110	90 - 110	P	10/16/2024	18:11	LB132963
CCV08	Aluminum	9330	10000	93	90 - 110	P	10/16/2024	18:46	LB132963
	Antimony	4670	5000	93	90 - 110	P	10/16/2024	18:46	LB132963
	Arsenic	4580	5000	92	90 - 110	P	10/16/2024	18:46	LB132963
	Barium	9240	10000	92	90 - 110	P	10/16/2024	18:46	LB132963
	Beryllium	268	250	107	90 - 110	P	10/16/2024	18:46	LB132963
	Cadmium	2590	2500	104	90 - 110	P	10/16/2024	18:46	LB132963
	Calcium	26600	25000	106	90 - 110	P	10/16/2024	18:46	LB132963
	Chromium	902	1000	90	90 - 110	P	10/16/2024	18:46	LB132963
	Cobalt	2650	2500	106	90 - 110	P	10/16/2024	18:46	LB132963
	Copper	1160	1250	92	90 - 110	P	10/16/2024	18:46	LB132963
	Iron	4570	5000	92	90 - 110	P	10/16/2024	18:46	LB132963
	Lead	4770	5000	95	90 - 110	P	10/16/2024	18:46	LB132963
	Magnesium	23600	25000	94	90 - 110	P	10/16/2024	18:46	LB132963
	Manganese	2720	2500	109	90 - 110	P	10/16/2024	18:46	LB132963
	Nickel	2340	2500	94	90 - 110	P	10/16/2024	18:46	LB132963
	Potassium	23400	25000	94	90 - 110	P	10/16/2024	18:46	LB132963

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	4690	5000	94	90 - 110	P	10/16/2024	18:46	LB132963
	Silver	1130	1250	91	90 - 110	P	10/16/2024	18:46	LB132963
	Sodium	24700	25000	99	90 - 110	P	10/16/2024	18:46	LB132963
	Thallium	5460	5000	109	90 - 110	P	10/16/2024	18:46	LB132963
	Vanadium	2300	2500	92	90 - 110	P	10/16/2024	18:46	LB132963
	Zinc	2430	2500	97	90 - 110	P	10/16/2024	18:46	LB132963

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	2510	2500	100	90 - 110	P	10/23/2024	14:59	LB133086
	Antimony	1030	1000	103	90 - 110	P	10/23/2024	14:59	LB133086
	Arsenic	998	1000	100	90 - 110	P	10/23/2024	14:59	LB133086
	Barium	501	520	96	90 - 110	P	10/23/2024	14:59	LB133086
	Beryllium	501	510	98	90 - 110	P	10/23/2024	14:59	LB133086
	Cadmium	506	510	99	90 - 110	P	10/23/2024	14:59	LB133086
	Calcium	9910	10000	99	90 - 110	P	10/23/2024	14:59	LB133086
	Chromium	538	520	103	90 - 110	P	10/23/2024	14:59	LB133086
	Cobalt	534	520	103	90 - 110	P	10/23/2024	14:59	LB133086
	Copper	513	510	101	90 - 110	P	10/23/2024	14:59	LB133086
	Iron	10400	10000	104	90 - 110	P	10/23/2024	14:59	LB133086
	Lead	1010	1000	101	90 - 110	P	10/23/2024	14:59	LB133086
	Magnesium	5790	6000	96	90 - 110	P	10/23/2024	14:59	LB133086
	Manganese	510	520	98	90 - 110	P	10/23/2024	14:59	LB133086
	Nickel	535	530	101	90 - 110	P	10/23/2024	14:59	LB133086
	Potassium	10400	9900	105	90 - 110	P	10/23/2024	14:59	LB133086
	Selenium	1020	1000	102	90 - 110	P	10/23/2024	14:59	LB133086
	Silver	256	250	102	90 - 110	P	10/23/2024	14:59	LB133086
	Sodium	10400	10000	104	90 - 110	P	10/23/2024	14:59	LB133086
	Thallium	1040	1000	104	90 - 110	P	10/23/2024	14:59	LB133086
	Vanadium	490	500	98	90 - 110	P	10/23/2024	14:59	LB133086
	Zinc	1050	1000	105	90 - 110	P	10/23/2024	14:59	LB133086

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	97.4	100	97	80 - 120	P	10/23/2024	15:11	LB133086
	Antimony	49.1	50.0	98	80 - 120	P	10/23/2024	15:11	LB133086
	Arsenic	18.8	20.0	94	80 - 120	P	10/23/2024	15:11	LB133086
	Barium	93.0	100	93	80 - 120	P	10/23/2024	15:11	LB133086
	Beryllium	5.70	6.0	95	80 - 120	P	10/23/2024	15:11	LB133086
	Cadmium	5.79	6.0	96	80 - 120	P	10/23/2024	15:11	LB133086
	Calcium	1860	2000	93	80 - 120	P	10/23/2024	15:11	LB133086
	Chromium	10.1	10.0	101	80 - 120	P	10/23/2024	15:11	LB133086
	Cobalt	29.0	30.0	97	80 - 120	P	10/23/2024	15:11	LB133086
	Copper	21.6	20.0	108	80 - 120	P	10/23/2024	15:11	LB133086
	Iron	104	100	104	80 - 120	P	10/23/2024	15:11	LB133086
	Lead	11.9	12.0	99	80 - 120	P	10/23/2024	15:11	LB133086
	Magnesium	1820	2000	91	80 - 120	P	10/23/2024	15:11	LB133086
	Manganese	19.0	20.0	95	80 - 120	P	10/23/2024	15:11	LB133086
	Nickel	38.5	40.0	96	80 - 120	P	10/23/2024	15:11	LB133086
	Potassium	1940	2000	97	80 - 120	P	10/23/2024	15:11	LB133086
	Selenium	20.9	20.0	105	80 - 120	P	10/23/2024	15:11	LB133086
	Silver	10.3	10.0	103	80 - 120	P	10/23/2024	15:11	LB133086
	Sodium	1970	2000	98	80 - 120	P	10/23/2024	15:11	LB133086
	Thallium	37.2	40.0	93	80 - 120	P	10/23/2024	15:11	LB133086
	Vanadium	36.9	40.0	92	80 - 120	P	10/23/2024	15:11	LB133086
	Zinc	42.5	40.0	106	80 - 120	P	10/23/2024	15:11	LB133086

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	9740	10000	97	90 - 110	P	10/23/2024	15:57	LB133086
	Antimony	5040	5000	101	90 - 110	P	10/23/2024	15:57	LB133086
	Arsenic	5090	5000	102	90 - 110	P	10/23/2024	15:57	LB133086
	Barium	9630	10000	96	90 - 110	P	10/23/2024	15:57	LB133086
	Beryllium	243	250	97	90 - 110	P	10/23/2024	15:57	LB133086
	Cadmium	2520	2500	101	90 - 110	P	10/23/2024	15:57	LB133086
	Calcium	24100	25000	96	90 - 110	P	10/23/2024	15:57	LB133086
	Chromium	1010	1000	101	90 - 110	P	10/23/2024	15:57	LB133086
	Cobalt	2480	2500	99	90 - 110	P	10/23/2024	15:57	LB133086
	Copper	1250	1250	100	90 - 110	P	10/23/2024	15:57	LB133086
	Iron	4910	5000	98	90 - 110	P	10/23/2024	15:57	LB133086
	Lead	5020	5000	100	90 - 110	P	10/23/2024	15:57	LB133086
	Magnesium	24100	25000	97	90 - 110	P	10/23/2024	15:57	LB133086
	Manganese	2380	2500	95	90 - 110	P	10/23/2024	15:57	LB133086
	Nickel	2490	2500	99	90 - 110	P	10/23/2024	15:57	LB133086
	Potassium	24900	25000	100	90 - 110	P	10/23/2024	15:57	LB133086
	Selenium	5060	5000	101	90 - 110	P	10/23/2024	15:57	LB133086
	Silver	1250	1250	100	90 - 110	P	10/23/2024	15:57	LB133086
	Sodium	25200	25000	101	90 - 110	P	10/23/2024	15:57	LB133086
	Thallium	5020	5000	100	90 - 110	P	10/23/2024	15:57	LB133086
	Vanadium	2420	2500	97	90 - 110	P	10/23/2024	15:57	LB133086
	Zinc	2520	2500	101	90 - 110	P	10/23/2024	15:57	LB133086
CCV02	Aluminum	9220	10000	92	90 - 110	P	10/23/2024	16:48	LB133086
	Antimony	4780	5000	96	90 - 110	P	10/23/2024	16:48	LB133086
	Arsenic	4840	5000	97	90 - 110	P	10/23/2024	16:48	LB133086
	Barium	9150	10000	92	90 - 110	P	10/23/2024	16:48	LB133086
	Beryllium	231	250	92	90 - 110	P	10/23/2024	16:48	LB133086
	Cadmium	2410	2500	96	90 - 110	P	10/23/2024	16:48	LB133086
	Calcium	22900	25000	92	90 - 110	P	10/23/2024	16:48	LB133086
	Chromium	969	1000	97	90 - 110	P	10/23/2024	16:48	LB133086
	Cobalt	2360	2500	94	90 - 110	P	10/23/2024	16:48	LB133086
	Copper	1180	1250	94	90 - 110	P	10/23/2024	16:48	LB133086
	Iron	4660	5000	93	90 - 110	P	10/23/2024	16:48	LB133086
	Lead	4810	5000	96	90 - 110	P	10/23/2024	16:48	LB133086

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	22800	25000	91	90 - 110	P	10/23/2024	16:48	LB133086
	Manganese	2360	2500	94	90 - 110	P	10/23/2024	16:48	LB133086
	Nickel	2360	2500	94	90 - 110	P	10/23/2024	16:48	LB133086
	Potassium	23700	25000	95	90 - 110	P	10/23/2024	16:48	LB133086
	Selenium	4860	5000	97	90 - 110	P	10/23/2024	16:48	LB133086
	Silver	1200	1250	96	90 - 110	P	10/23/2024	16:48	LB133086
	Sodium	24000	25000	96	90 - 110	P	10/23/2024	16:48	LB133086
	Thallium	5330	5000	107	90 - 110	P	10/23/2024	16:48	LB133086
	Vanadium	2280	2500	91	90 - 110	P	10/23/2024	16:48	LB133086
	Zinc	2410	2500	96	90 - 110	P	10/23/2024	16:48	LB133086
CCV03	Aluminum	9200	10000	92	90 - 110	P	10/23/2024	17:42	LB133086
	Antimony	4800	5000	96	90 - 110	P	10/23/2024	17:42	LB133086
	Arsenic	4880	5000	98	90 - 110	P	10/23/2024	17:42	LB133086
	Barium	9030	10000	90	90 - 110	P	10/23/2024	17:42	LB133086
	Beryllium	233	250	93	90 - 110	P	10/23/2024	17:42	LB133086
	Cadmium	2440	2500	97	90 - 110	P	10/23/2024	17:42	LB133086
	Calcium	22900	25000	92	90 - 110	P	10/23/2024	17:42	LB133086
	Chromium	992	1000	99	90 - 110	P	10/23/2024	17:42	LB133086
	Cobalt	2380	2500	95	90 - 110	P	10/23/2024	17:42	LB133086
	Copper	1190	1250	95	90 - 110	P	10/23/2024	17:42	LB133086
	Iron	4840	5000	97	90 - 110	P	10/23/2024	17:42	LB133086
	Lead	4850	5000	97	90 - 110	P	10/23/2024	17:42	LB133086
	Magnesium	22800	25000	91	90 - 110	P	10/23/2024	17:42	LB133086
	Manganese	2360	2500	94	90 - 110	P	10/23/2024	17:42	LB133086
	Nickel	2380	2500	95	90 - 110	P	10/23/2024	17:42	LB133086
	Potassium	24600	25000	98	90 - 110	P	10/23/2024	17:42	LB133086
	Selenium	4880	5000	98	90 - 110	P	10/23/2024	17:42	LB133086
	Silver	1230	1250	98	90 - 110	P	10/23/2024	17:42	LB133086
	Sodium	24700	25000	99	90 - 110	P	10/23/2024	17:42	LB133086
	Thallium	5440	5000	109	90 - 110	P	10/23/2024	17:42	LB133086
	Vanadium	2280	2500	91	90 - 110	P	10/23/2024	17:42	LB133086
	Zinc	2460	2500	98	90 - 110	P	10/23/2024	17:42	LB133086
CCV04	Aluminum	9450	10000	94	90 - 110	P	10/23/2024	18:32	LB133086
	Antimony	4980	5000	100	90 - 110	P	10/23/2024	18:32	LB133086

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	5070	5000	101	90 - 110	P	10/23/2024	18:32	LB133086
	Barium	9310	10000	93	90 - 110	P	10/23/2024	18:32	LB133086
	Beryllium	240	250	96	90 - 110	P	10/23/2024	18:32	LB133086
	Cadmium	2540	2500	102	90 - 110	P	10/23/2024	18:32	LB133086
	Calcium	23500	25000	94	90 - 110	P	10/23/2024	18:32	LB133086
	Chromium	1020	1000	102	90 - 110	P	10/23/2024	18:32	LB133086
	Cobalt	2500	2500	100	90 - 110	P	10/23/2024	18:32	LB133086
	Copper	1240	1250	99	90 - 110	P	10/23/2024	18:32	LB133086
	Iron	4820	5000	96	90 - 110	P	10/23/2024	18:32	LB133086
	Lead	5080	5000	102	90 - 110	P	10/23/2024	18:32	LB133086
	Magnesium	23300	25000	93	90 - 110	P	10/23/2024	18:32	LB133086
	Manganese	2260	2500	90	90 - 110	P	10/23/2024	18:32	LB133086
	Nickel	2500	2500	100	90 - 110	P	10/23/2024	18:32	LB133086
	Potassium	25000	25000	100	90 - 110	P	10/23/2024	18:32	LB133086
	Selenium	5090	5000	102	90 - 110	P	10/23/2024	18:32	LB133086
	Silver	1250	1250	100	90 - 110	P	10/23/2024	18:32	LB133086
	Sodium	25400	25000	102	90 - 110	P	10/23/2024	18:32	LB133086
	Thallium	5020	5000	100	90 - 110	P	10/23/2024	18:32	LB133086
	Vanadium	2320	2500	93	90 - 110	P	10/23/2024	18:32	LB133086
	Zinc	2500	2500	100	90 - 110	P	10/23/2024	18:32	LB133086
CCV05	Aluminum	9390	10000	94	90 - 110	P	10/23/2024	19:23	LB133086
	Antimony	4850	5000	97	90 - 110	P	10/23/2024	19:23	LB133086
	Arsenic	4920	5000	98	90 - 110	P	10/23/2024	19:23	LB133086
	Barium	9250	10000	92	90 - 110	P	10/23/2024	19:23	LB133086
	Beryllium	237	250	95	90 - 110	P	10/23/2024	19:23	LB133086
	Cadmium	2460	2500	99	90 - 110	P	10/23/2024	19:23	LB133086
	Calcium	23400	25000	94	90 - 110	P	10/23/2024	19:23	LB133086
	Chromium	984	1000	98	90 - 110	P	10/23/2024	19:23	LB133086
	Cobalt	2410	2500	96	90 - 110	P	10/23/2024	19:23	LB133086
	Copper	1200	1250	96	90 - 110	P	10/23/2024	19:23	LB133086
	Iron	4650	5000	93	90 - 110	P	10/23/2024	19:23	LB133086
	Lead	4910	5000	98	90 - 110	P	10/23/2024	19:23	LB133086
	Magnesium	23100	25000	92	90 - 110	P	10/23/2024	19:23	LB133086
	Manganese	2400	2500	96	90 - 110	P	10/23/2024	19:23	LB133086

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	2410	2500	96	90 - 110	P	10/23/2024	19:23	LB133086
	Potassium	24100	25000	97	90 - 110	P	10/23/2024	19:23	LB133086
	Selenium	4910	5000	98	90 - 110	P	10/23/2024	19:23	LB133086
	Silver	1210	1250	97	90 - 110	P	10/23/2024	19:23	LB133086
	Sodium	24400	25000	98	90 - 110	P	10/23/2024	19:23	LB133086
	Thallium	5340	5000	107	90 - 110	P	10/23/2024	19:23	LB133086
	Vanadium	2290	2500	92	90 - 110	P	10/23/2024	19:23	LB133086
	Zinc	2450	2500	98	90 - 110	P	10/23/2024	19:23	LB133086
CCV06	Aluminum	9270	10000	93	90 - 110	P	10/23/2024	20:15	LB133086
	Antimony	4780	5000	96	90 - 110	P	10/23/2024	20:15	LB133086
	Arsenic	4890	5000	98	90 - 110	P	10/23/2024	20:15	LB133086
	Barium	9330	10000	93	90 - 110	P	10/23/2024	20:15	LB133086
	Beryllium	235	250	94	90 - 110	P	10/23/2024	20:15	LB133086
	Cadmium	2470	2500	99	90 - 110	P	10/23/2024	20:15	LB133086
	Calcium	23100	25000	92	90 - 110	P	10/23/2024	20:15	LB133086
	Chromium	989	1000	99	90 - 110	P	10/23/2024	20:15	LB133086
	Cobalt	2420	2500	97	90 - 110	P	10/23/2024	20:15	LB133086
	Copper	1190	1250	95	90 - 110	P	10/23/2024	20:15	LB133086
	Iron	4690	5000	94	90 - 110	P	10/23/2024	20:15	LB133086
	Lead	4910	5000	98	90 - 110	P	10/23/2024	20:15	LB133086
	Magnesium	22600	25000	90	90 - 110	P	10/23/2024	20:15	LB133086
	Manganese	2370	2500	95	90 - 110	P	10/23/2024	20:15	LB133086
	Nickel	2420	2500	97	90 - 110	P	10/23/2024	20:15	LB133086
	Potassium	25000	25000	100	90 - 110	P	10/23/2024	20:15	LB133086
	Selenium	4870	5000	97	90 - 110	P	10/23/2024	20:15	LB133086
	Silver	1220	1250	98	90 - 110	P	10/23/2024	20:15	LB133086
	Sodium	25200	25000	101	90 - 110	P	10/23/2024	20:15	LB133086
	Thallium	5360	5000	107	90 - 110	P	10/23/2024	20:15	LB133086
	Vanadium	2270	2500	91	90 - 110	P	10/23/2024	20:15	LB133086
	Zinc	2410	2500	96	90 - 110	P	10/23/2024	20:15	LB133086
CCV07	Aluminum	9410	10000	94	90 - 110	P	10/23/2024	21:28	LB133086
	Antimony	4720	5000	94	90 - 110	P	10/23/2024	21:28	LB133086
	Arsenic	4820	5000	96	90 - 110	P	10/23/2024	21:28	LB133086
	Barium	9500	10000	95	90 - 110	P	10/23/2024	21:28	LB133086

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	234	250	94	90 - 110	P	10/23/2024	21:28	LB133086
	Cadmium	2420	2500	97	90 - 110	P	10/23/2024	21:28	LB133086
	Calcium	26400	25000	106	90 - 110	P	10/23/2024	21:28	LB133086
	Chromium	952	1000	95	90 - 110	P	10/23/2024	21:28	LB133086
	Cobalt	2360	2500	95	90 - 110	P	10/23/2024	21:28	LB133086
	Copper	1170	1250	94	90 - 110	P	10/23/2024	21:28	LB133086
	Iron	5380	5000	108	90 - 110	P	10/23/2024	21:28	LB133086
	Lead	4820	5000	96	90 - 110	P	10/23/2024	21:28	LB133086
	Magnesium	27300	25000	109	90 - 110	P	10/23/2024	21:28	LB133086
	Manganese	2340	2500	94	90 - 110	P	10/23/2024	21:28	LB133086
	Nickel	2370	2500	95	90 - 110	P	10/23/2024	21:28	LB133086
	Potassium	23400	25000	94	90 - 110	P	10/23/2024	21:28	LB133086
	Selenium	4830	5000	97	90 - 110	P	10/23/2024	21:28	LB133086
	Silver	1170	1250	94	90 - 110	P	10/23/2024	21:28	LB133086
	Sodium	22700	25000	91	90 - 110	P	10/23/2024	21:28	LB133086
	Thallium	5360	5000	107	90 - 110	P	10/23/2024	21:28	LB133086
	Vanadium	2610	2500	104	90 - 110	P	10/23/2024	21:28	LB133086
	Zinc	2290	2500	92	90 - 110	P	10/23/2024	21:28	LB133086
CCV08	Aluminum	9300	10000	93	90 - 110	P	10/23/2024	22:20	LB133086
	Antimony	4690	5000	94	90 - 110	P	10/23/2024	22:20	LB133086
	Arsenic	4800	5000	96	90 - 110	P	10/23/2024	22:20	LB133086
	Barium	9320	10000	93	90 - 110	P	10/23/2024	22:20	LB133086
	Beryllium	256	250	102	90 - 110	P	10/23/2024	22:20	LB133086
	Cadmium	2510	2500	100	90 - 110	P	10/23/2024	22:20	LB133086
	Calcium	24000	25000	96	90 - 110	P	10/23/2024	22:20	LB133086
	Chromium	1010	1000	101	90 - 110	P	10/23/2024	22:20	LB133086
	Cobalt	2440	2500	98	90 - 110	P	10/23/2024	22:20	LB133086
	Copper	1170	1250	94	90 - 110	P	10/23/2024	22:20	LB133086
	Iron	4550	5000	91	90 - 110	P	10/23/2024	22:20	LB133086
	Lead	4980	5000	100	90 - 110	P	10/23/2024	22:20	LB133086
	Magnesium	23800	25000	95	90 - 110	P	10/23/2024	22:20	LB133086
	Manganese	2310	2500	92	90 - 110	P	10/23/2024	22:20	LB133086
	Nickel	2440	2500	97	90 - 110	P	10/23/2024	22:20	LB133086
	Potassium	23500	25000	94	90 - 110	P	10/23/2024	22:20	LB133086

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	4770	5000	96	90 - 110	P	10/23/2024	22:20	LB133086
	Silver	1220	1250	97	90 - 110	P	10/23/2024	22:20	LB133086
	Sodium	23000	25000	92	90 - 110	P	10/23/2024	22:20	LB133086
	Thallium	5470	5000	109	90 - 110	P	10/23/2024	22:20	LB133086
	Vanadium	2310	2500	92	90 - 110	P	10/23/2024	22:20	LB133086
	Zinc	2390	2500	96	90 - 110	P	10/23/2024	22:20	LB133086

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	99	90 - 110	P	11/04/2024	17:28	LB133296
	Antimony	999	1000	100	90 - 110	P	11/04/2024	17:28	LB133296
	Arsenic	948	1000	95	90 - 110	P	11/04/2024	17:28	LB133296
	Barium	494	520	95	90 - 110	P	11/04/2024	17:28	LB133296
	Beryllium	533	510	105	90 - 110	P	11/04/2024	17:28	LB133296
	Cadmium	485	510	95	90 - 110	P	11/04/2024	17:28	LB133296
	Calcium	9920	10000	99	90 - 110	P	11/04/2024	17:28	LB133296
	Chromium	545	520	105	90 - 110	P	11/04/2024	17:28	LB133296
	Cobalt	513	520	99	90 - 110	P	11/04/2024	17:28	LB133296
	Copper	528	510	104	90 - 110	P	11/04/2024	17:28	LB133296
	Iron	9840	10000	98	90 - 110	P	11/04/2024	17:28	LB133296
	Lead	979	1000	98	90 - 110	P	11/04/2024	17:28	LB133296
	Magnesium	6070	6000	101	90 - 110	P	11/04/2024	17:28	LB133296
	Manganese	510	520	98	90 - 110	P	11/04/2024	17:28	LB133296
	Nickel	515	530	97	90 - 110	P	11/04/2024	17:28	LB133296
	Potassium	9580	9900	97	90 - 110	P	11/04/2024	17:28	LB133296
	Selenium	989	1000	99	90 - 110	P	11/04/2024	17:28	LB133296
	Silver	260	250	104	90 - 110	P	11/04/2024	17:28	LB133296
	Sodium	9470	10000	95	90 - 110	P	11/04/2024	17:28	LB133296
	Thallium	1090	1000	109	90 - 110	P	11/04/2024	17:28	LB133296
	Vanadium	493	500	99	90 - 110	P	11/04/2024	17:28	LB133296
	Zinc	1010	1000	102	90 - 110	P	11/04/2024	17:28	LB133296

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	110	100	110	80 - 120	P	11/04/2024	17:37	LB133296
	Antimony	50.7	50.0	101	80 - 120	P	11/04/2024	17:37	LB133296
	Arsenic	19.2	20.0	96	80 - 120	P	11/04/2024	17:37	LB133296
	Barium	106	100	106	80 - 120	P	11/04/2024	17:37	LB133296
	Beryllium	6.34	6.0	106	80 - 120	P	11/04/2024	17:37	LB133296
	Cadmium	6.64	6.0	111	80 - 120	P	11/04/2024	17:37	LB133296
	Calcium	2050	2000	102	80 - 120	P	11/04/2024	17:37	LB133296
	Chromium	10.9	10.0	109	80 - 120	P	11/04/2024	17:37	LB133296
	Cobalt	30.9	30.0	103	80 - 120	P	11/04/2024	17:37	LB133296
	Copper	23.3	20.0	116	80 - 120	P	11/04/2024	17:37	LB133296
	Iron	102	100	102	80 - 120	P	11/04/2024	17:37	LB133296
	Lead	11.8	12.0	98	80 - 120	P	11/04/2024	17:37	LB133296
	Magnesium	2120	2000	106	80 - 120	P	11/04/2024	17:37	LB133296
	Manganese	20.9	20.0	105	80 - 120	P	11/04/2024	17:37	LB133296
	Nickel	41.1	40.0	103	80 - 120	P	11/04/2024	17:37	LB133296
	Potassium	1880	2000	94	80 - 120	P	11/04/2024	17:37	LB133296
	Selenium	17.6	20.0	88	80 - 120	P	11/04/2024	17:37	LB133296
	Silver	10.4	10.0	104	80 - 120	P	11/04/2024	17:37	LB133296
	Sodium	1950	2000	98	80 - 120	P	11/04/2024	17:37	LB133296
	Thallium	40.7	40.0	102	80 - 120	P	11/04/2024	17:37	LB133296
	Vanadium	40.3	40.0	101	80 - 120	P	11/04/2024	17:37	LB133296
	Zinc	44.0	40.0	110	80 - 120	P	11/04/2024	17:37	LB133296

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	9930	10000	99	90 - 110	P	11/04/2024	18:11	LB133296
	Antimony	4940	5000	99	90 - 110	P	11/04/2024	18:11	LB133296
	Arsenic	5050	5000	101	90 - 110	P	11/04/2024	18:11	LB133296
	Barium	9740	10000	97	90 - 110	P	11/04/2024	18:11	LB133296
	Beryllium	265	250	106	90 - 110	P	11/04/2024	18:11	LB133296
	Cadmium	2560	2500	102	90 - 110	P	11/04/2024	18:11	LB133296
	Calcium	25000	25000	100	90 - 110	P	11/04/2024	18:11	LB133296
	Chromium	1050	1000	105	90 - 110	P	11/04/2024	18:11	LB133296
	Cobalt	2520	2500	101	90 - 110	P	11/04/2024	18:11	LB133296
	Copper	1260	1250	101	90 - 110	P	11/04/2024	18:11	LB133296
	Iron	4950	5000	99	90 - 110	P	11/04/2024	18:11	LB133296
	Lead	5120	5000	102	90 - 110	P	11/04/2024	18:11	LB133296
	Magnesium	25700	25000	103	90 - 110	P	11/04/2024	18:11	LB133296
	Manganese	2490	2500	100	90 - 110	P	11/04/2024	18:11	LB133296
	Nickel	2520	2500	101	90 - 110	P	11/04/2024	18:11	LB133296
	Potassium	24600	25000	98	90 - 110	P	11/04/2024	18:11	LB133296
	Selenium	5110	5000	102	90 - 110	P	11/04/2024	18:11	LB133296
	Silver	1280	1250	102	90 - 110	P	11/04/2024	18:11	LB133296
	Sodium	24800	25000	99	90 - 110	P	11/04/2024	18:11	LB133296
	Thallium	4720	5000	94	90 - 110	P	11/04/2024	18:11	LB133296
	Vanadium	2480	2500	99	90 - 110	P	11/04/2024	18:11	LB133296
	Zinc	2540	2500	102	90 - 110	P	11/04/2024	18:11	LB133296
CCV02	Aluminum	10400	10000	104	90 - 110	P	11/04/2024	19:02	LB133296
	Antimony	5220	5000	104	90 - 110	P	11/04/2024	19:02	LB133296
	Arsenic	5310	5000	106	90 - 110	P	11/04/2024	19:02	LB133296
	Barium	10200	10000	102	90 - 110	P	11/04/2024	19:02	LB133296
	Beryllium	267	250	107	90 - 110	P	11/04/2024	19:02	LB133296
	Cadmium	2670	2500	107	90 - 110	P	11/04/2024	19:02	LB133296
	Calcium	26000	25000	104	90 - 110	P	11/04/2024	19:02	LB133296
	Chromium	1060	1000	106	90 - 110	P	11/04/2024	19:02	LB133296
	Cobalt	2630	2500	105	90 - 110	P	11/04/2024	19:02	LB133296
	Copper	1320	1250	105	90 - 110	P	11/04/2024	19:02	LB133296
	Iron	5200	5000	104	90 - 110	P	11/04/2024	19:02	LB133296
	Lead	5320	5000	106	90 - 110	P	11/04/2024	19:02	LB133296

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	26200	25000	105	90 - 110	P	11/04/2024	19:02	LB133296
	Manganese	2520	2500	101	90 - 110	P	11/04/2024	19:02	LB133296
	Nickel	2640	2500	106	90 - 110	P	11/04/2024	19:02	LB133296
	Potassium	26500	25000	106	90 - 110	P	11/04/2024	19:02	LB133296
	Selenium	5390	5000	108	90 - 110	P	11/04/2024	19:02	LB133296
	Silver	1330	1250	107	90 - 110	P	11/04/2024	19:02	LB133296
	Sodium	26400	25000	106	90 - 110	P	11/04/2024	19:02	LB133296
	Thallium	4920	5000	98	90 - 110	P	11/04/2024	19:02	LB133296
	Vanadium	2560	2500	102	90 - 110	P	11/04/2024	19:02	LB133296
	Zinc	2650	2500	106	90 - 110	P	11/04/2024	19:02	LB133296
CCV03	Aluminum	10300	10000	102	90 - 110	P	11/04/2024	19:46	LB133296
	Antimony	5190	5000	104	90 - 110	P	11/04/2024	19:46	LB133296
	Arsenic	5310	5000	106	90 - 110	P	11/04/2024	19:46	LB133296
	Barium	10100	10000	101	90 - 110	P	11/04/2024	19:46	LB133296
	Beryllium	266	250	106	90 - 110	P	11/04/2024	19:46	LB133296
	Cadmium	2660	2500	106	90 - 110	P	11/04/2024	19:46	LB133296
	Calcium	25500	25000	102	90 - 110	P	11/04/2024	19:46	LB133296
	Chromium	1090	1000	109	90 - 110	P	11/04/2024	19:46	LB133296
	Cobalt	2620	2500	105	90 - 110	P	11/04/2024	19:46	LB133296
	Copper	1310	1250	105	90 - 110	P	11/04/2024	19:46	LB133296
	Iron	5040	5000	101	90 - 110	P	11/04/2024	19:46	LB133296
	Lead	5320	5000	106	90 - 110	P	11/04/2024	19:46	LB133296
	Magnesium	25900	25000	104	90 - 110	P	11/04/2024	19:46	LB133296
	Manganese	2480	2500	99	90 - 110	P	11/04/2024	19:46	LB133296
	Nickel	2630	2500	105	90 - 110	P	11/04/2024	19:46	LB133296
	Potassium	26500	25000	106	90 - 110	P	11/04/2024	19:46	LB133296
	Selenium	5390	5000	108	90 - 110	P	11/04/2024	19:46	LB133296
	Silver	1320	1250	106	90 - 110	P	11/04/2024	19:46	LB133296
	Sodium	22800	25000	91	90 - 110	P	11/04/2024	19:46	LB133296
	Thallium	4830	5000	97	90 - 110	P	11/04/2024	19:46	LB133296
	Vanadium	2520	2500	101	90 - 110	P	11/04/2024	19:46	LB133296
	Zinc	2620	2500	105	90 - 110	P	11/04/2024	19:46	LB133296
CCV04	Aluminum	10100	10000	101	90 - 110	P	11/04/2024	21:07	LB133296
	Antimony	5260	5000	105	90 - 110	P	11/04/2024	21:07	LB133296

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	5210	5000	104	90 - 110	P	11/04/2024	21:07	LB133296
	Barium	10200	10000	102	90 - 110	P	11/04/2024	21:07	LB133296
	Beryllium	248	250	99	90 - 110	P	11/04/2024	21:07	LB133296
	Cadmium	2530	2500	101	90 - 110	P	11/04/2024	21:07	LB133296
	Calcium	24900	25000	99	90 - 110	P	11/04/2024	21:07	LB133296
	Chromium	1050	1000	105	90 - 110	P	11/04/2024	21:07	LB133296
	Cobalt	2540	2500	102	90 - 110	P	11/04/2024	21:07	LB133296
	Copper	1290	1250	103	90 - 110	P	11/04/2024	21:07	LB133296
	Iron	5270	5000	105	90 - 110	P	11/04/2024	21:07	LB133296
	Lead	5020	5000	100	90 - 110	P	11/04/2024	21:07	LB133296
	Magnesium	24800	25000	99	90 - 110	P	11/04/2024	21:07	LB133296
	Manganese	2470	2500	99	90 - 110	P	11/04/2024	21:07	LB133296
	Nickel	2540	2500	102	90 - 110	P	11/04/2024	21:07	LB133296
	Potassium	25700	25000	103	90 - 110	P	11/04/2024	21:07	LB133296
	Selenium	5300	5000	106	90 - 110	P	11/04/2024	21:07	LB133296
	Silver	1310	1250	105	90 - 110	P	11/04/2024	21:07	LB133296
	Sodium	26800	25000	107	90 - 110	P	11/04/2024	21:07	LB133296
	Thallium	4740	5000	95	90 - 110	P	11/04/2024	21:07	LB133296
	Vanadium	2510	2500	100	90 - 110	P	11/04/2024	21:07	LB133296
	Zinc	2610	2500	104	90 - 110	P	11/04/2024	21:07	LB133296
CCV05	Aluminum	9940	10000	99	90 - 110	P	11/04/2024	21:47	LB133296
	Antimony	5110	5000	102	90 - 110	P	11/04/2024	21:47	LB133296
	Arsenic	5110	5000	102	90 - 110	P	11/04/2024	21:47	LB133296
	Barium	10100	10000	101	90 - 110	P	11/04/2024	21:47	LB133296
	Beryllium	254	250	102	90 - 110	P	11/04/2024	21:47	LB133296
	Cadmium	2520	2500	101	90 - 110	P	11/04/2024	21:47	LB133296
	Calcium	24600	25000	99	90 - 110	P	11/04/2024	21:47	LB133296
	Chromium	1040	1000	104	90 - 110	P	11/04/2024	21:47	LB133296
	Cobalt	2520	2500	101	90 - 110	P	11/04/2024	21:47	LB133296
	Copper	1270	1250	101	90 - 110	P	11/04/2024	21:47	LB133296
	Iron	5030	5000	101	90 - 110	P	11/04/2024	21:47	LB133296
	Lead	5020	5000	100	90 - 110	P	11/04/2024	21:47	LB133296
	Magnesium	24800	25000	99	90 - 110	P	11/04/2024	21:47	LB133296
	Manganese	2470	2500	99	90 - 110	P	11/04/2024	21:47	LB133296

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	2510	2500	101	90 - 110	P	11/04/2024	21:47	LB133296
	Potassium	26600	25000	106	90 - 110	P	11/04/2024	21:47	LB133296
	Selenium	5180	5000	104	90 - 110	P	11/04/2024	21:47	LB133296
	Silver	1290	1250	103	90 - 110	P	11/04/2024	21:47	LB133296
	Sodium	25500	25000	102	90 - 110	P	11/04/2024	21:47	LB133296
	Thallium	4730	5000	95	90 - 110	P	11/04/2024	21:47	LB133296
	Vanadium	2470	2500	99	90 - 110	P	11/04/2024	21:47	LB133296
	Zinc	2570	2500	103	90 - 110	P	11/04/2024	21:47	LB133296

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	91	40 - 160	CV	10/15/2024	12:41	LB132940
CRI01	Aluminum	115	100	115	40 - 160	P	10/16/2024	11:55	LB132963
	Antimony	51.7	50.0	103	40 - 160	P	10/16/2024	11:55	LB132963
	Arsenic	19.5	20.0	98	40 - 160	P	10/16/2024	11:55	LB132963
	Barium	99.2	100	99	40 - 160	P	10/16/2024	11:55	LB132963
	Beryllium	6.25	6.0	104	40 - 160	P	10/16/2024	11:55	LB132963
	Cadmium	6.11	6.0	102	40 - 160	P	10/16/2024	11:55	LB132963
	Calcium	2090	2000	104	40 - 160	P	10/16/2024	11:55	LB132963
	Chromium	10.6	10.0	106	40 - 160	P	10/16/2024	11:55	LB132963
	Cobalt	30.9	30.0	103	40 - 160	P	10/16/2024	11:55	LB132963
	Copper	23.0	20.0	115	40 - 160	P	10/16/2024	11:55	LB132963
	Iron	117	100	117	40 - 160	P	10/16/2024	11:55	LB132963
	Lead	13.9	12.0	116	40 - 160	P	10/16/2024	11:55	LB132963
	Magnesium	2180	2000	109	40 - 160	P	10/16/2024	11:55	LB132963
	Manganese	21.2	20.0	106	40 - 160	P	10/16/2024	11:55	LB132963
	Nickel	40.9	40.0	102	40 - 160	P	10/16/2024	11:55	LB132963
	Potassium	2010	2000	100	40 - 160	P	10/16/2024	11:55	LB132963
	Selenium	20.8	20.0	104	40 - 160	P	10/16/2024	11:55	LB132963
	Silver	11.3	10.0	113	40 - 160	P	10/16/2024	11:55	LB132963
	Sodium	1960	2000	98	40 - 160	P	10/16/2024	11:55	LB132963
	Thallium	39.8	40.0	99	40 - 160	P	10/16/2024	11:55	LB132963
	Vanadium	42.5	40.0	106	40 - 160	P	10/16/2024	11:55	LB132963
	Zinc	38.4	40.0	96	40 - 160	P	10/16/2024	11:55	LB132963
CRA	Mercury	0.18	0.2	91	40 - 160	CV	10/16/2024	14:05	LB132960
CRI01	Aluminum	94.6	100	95	40 - 160	P	10/23/2024	15:22	LB133086
	Antimony	48.5	50.0	97	40 - 160	P	10/23/2024	15:22	LB133086
	Arsenic	19.7	20.0	99	40 - 160	P	10/23/2024	15:22	LB133086
	Barium	92.7	100	93	40 - 160	P	10/23/2024	15:22	LB133086
	Beryllium	5.42	6.0	90	40 - 160	P	10/23/2024	15:22	LB133086
	Cadmium	5.38	6.0	90	40 - 160	P	10/23/2024	15:22	LB133086
	Calcium	1860	2000	93	40 - 160	P	10/23/2024	15:22	LB133086
	Chromium	10.0	10.0	100	40 - 160	P	10/23/2024	15:22	LB133086
	Cobalt	28.3	30.0	94	40 - 160	P	10/23/2024	15:22	LB133086
	Copper	20.9	20.0	105	40 - 160	P	10/23/2024	15:22	LB133086
	Iron	102	100	102	40 - 160	P	10/23/2024	15:22	LB133086

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	11.1	12.0	92	40 - 160	P	10/23/2024	15:22	LB133086
	Magnesium	1830	2000	92	40 - 160	P	10/23/2024	15:22	LB133086
	Manganese	18.7	20.0	94	40 - 160	P	10/23/2024	15:22	LB133086
	Nickel	37.4	40.0	94	40 - 160	P	10/23/2024	15:22	LB133086
	Potassium	1950	2000	98	40 - 160	P	10/23/2024	15:22	LB133086
	Selenium	17.6	20.0	88	40 - 160	P	10/23/2024	15:22	LB133086
	Silver	10.1	10.0	101	40 - 160	P	10/23/2024	15:22	LB133086
	Sodium	1970	2000	99	40 - 160	P	10/23/2024	15:22	LB133086
	Thallium	37.5	40.0	94	40 - 160	P	10/23/2024	15:22	LB133086
	Vanadium	37.7	40.0	94	40 - 160	P	10/23/2024	15:22	LB133086
	Zinc	42.1	40.0	105	40 - 160	P	10/23/2024	15:22	LB133086
CRI01	Aluminum	118	100	118	40 - 160	P	11/04/2024	17:52	LB133296
	Antimony	50.4	50.0	101	40 - 160	P	11/04/2024	17:52	LB133296
	Arsenic	19.6	20.0	98	40 - 160	P	11/04/2024	17:52	LB133296
	Barium	105	100	104	40 - 160	P	11/04/2024	17:52	LB133296
	Beryllium	6.34	6.0	106	40 - 160	P	11/04/2024	17:52	LB133296
	Cadmium	6.64	6.0	111	40 - 160	P	11/04/2024	17:52	LB133296
	Calcium	2040	2000	102	40 - 160	P	11/04/2024	17:52	LB133296
	Chromium	10.7	10.0	107	40 - 160	P	11/04/2024	17:52	LB133296
	Cobalt	30.3	30.0	101	40 - 160	P	11/04/2024	17:52	LB133296
	Copper	22.5	20.0	112	40 - 160	P	11/04/2024	17:52	LB133296
	Iron	97.6	100	98	40 - 160	P	11/04/2024	17:52	LB133296
	Lead	11.7	12.0	98	40 - 160	P	11/04/2024	17:52	LB133296
	Magnesium	2110	2000	105	40 - 160	P	11/04/2024	17:52	LB133296
	Manganese	20.7	20.0	103	40 - 160	P	11/04/2024	17:52	LB133296
	Nickel	40.2	40.0	100	40 - 160	P	11/04/2024	17:52	LB133296
	Potassium	1820	2000	91	40 - 160	P	11/04/2024	17:52	LB133296
	Selenium	18.8	20.0	94	40 - 160	P	11/04/2024	17:52	LB133296
	Silver	10.4	10.0	104	40 - 160	P	11/04/2024	17:52	LB133296
	Sodium	1960	2000	98	40 - 160	P	11/04/2024	17:52	LB133296
	Thallium	39.9	40.0	100	40 - 160	P	11/04/2024	17:52	LB133296
	Vanadium	41.0	40.0	103	40 - 160	P	11/04/2024	17:52	LB133296
	Zinc	43.4	40.0	108	40 - 160	P	11/04/2024	17:52	LB133296

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	273000	255000	107	216000	294000	10/16/2024	12:00	LB132963
	Antimony	-4.10			-50	50	10/16/2024	12:00	LB132963
	Arsenic	-2.35			-20	20	10/16/2024	12:00	LB132963
	Barium	0.32	6.0	5	-94	106	10/16/2024	12:00	LB132963
	Beryllium	2.47			-6	6	10/16/2024	12:00	LB132963
	Cadmium	6.81	1.0	681	-5	7	10/16/2024	12:00	LB132963
	Calcium	253000	245000	103	208000	282000	10/16/2024	12:00	LB132963
	Chromium	60.1	52.0	116	42	62	10/16/2024	12:00	LB132963
	Cobalt	2.26			-30	30	10/16/2024	12:00	LB132963
	Copper	3.88	2.0	194	-18	22	10/16/2024	12:00	LB132963
	Iron	105000	101000	104	85600	116500	10/16/2024	12:00	LB132963
	Lead	11.6			-12	12	10/16/2024	12:00	LB132963
	Magnesium	277000	255000	109	216000	294000	10/16/2024	12:00	LB132963
	Manganese	-2.53	7.0	36	-13	27	10/16/2024	12:00	LB132963
	Nickel	2.80	2.0	140	-38	42	10/16/2024	12:00	LB132963
	Potassium	73.8			0	0	10/16/2024	12:00	LB132963
	Selenium	-14.6			-20	20	10/16/2024	12:00	LB132963
	Silver	-3.11			-10	10	10/16/2024	12:00	LB132963
	Sodium	53.5			0	0	10/16/2024	12:00	LB132963
	Thallium	2.18			-40	40	10/16/2024	12:00	LB132963
	Vanadium	8.61			-40	40	10/16/2024	12:00	LB132963
	Zinc	2.93			-40	40	10/16/2024	12:00	LB132963
ICSAB01	Aluminum	270000	247000	109	209000	285000	10/16/2024	12:04	LB132963
	Antimony	629	618	102	525	711	10/16/2024	12:04	LB132963
	Arsenic	106	104	102	88.4	120	10/16/2024	12:04	LB132963
	Barium	532	537	99	437	637	10/16/2024	12:04	LB132963
	Beryllium	528	495	107	420	570	10/16/2024	12:04	LB132963
	Cadmium	978	972	101	826	1120	10/16/2024	12:04	LB132963
	Calcium	250000	235000	106	199000	271000	10/16/2024	12:04	LB132963
	Chromium	587	542	108	460	624	10/16/2024	12:04	LB132963
	Cobalt	521	476	110	404	548	10/16/2024	12:04	LB132963
	Copper	499	511	98	434	588	10/16/2024	12:04	LB132963
	Iron	105000	99300	106	84400	114500	10/16/2024	12:04	LB132963
	Lead	57.4	49.0	117	37	61	10/16/2024	12:04	LB132963
	Magnesium	274000	248000	110	210000	286000	10/16/2024	12:04	LB132963
	Manganese	513	507	101	430	584	10/16/2024	12:04	LB132963
	Nickel	1020	954	107	810	1100	10/16/2024	12:04	LB132963
	Potassium	86.5			0	0	10/16/2024	12:04	LB132963
	Selenium	35.8	46.0	78	26	66	10/16/2024	12:04	LB132963
	Silver	184	201	92	170	232	10/16/2024	12:04	LB132963
	Sodium	81.1			0	0	10/16/2024	12:04	LB132963
	Thallium	93.2	108	86	68	148	10/16/2024	12:04	LB132963

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	519	491	106	417	565	10/16/2024	12:04	LB132963
	Zinc	954	952	100	809	1095	10/16/2024	12:04	LB132963
ICSA01	Aluminum	247000	255000	97	216000	294000	10/23/2024	15:26	LB133086
	Antimony	0.40			-50	50	10/23/2024	15:26	LB133086
	Arsenic	6.17			-20	20	10/23/2024	15:26	LB133086
	Barium	4.64	6.0	77	-94	106	10/23/2024	15:26	LB133086
	Beryllium	1.26			-6	6	10/23/2024	15:26	LB133086
	Cadmium	5.24	1.0	524	-5	7	10/23/2024	15:26	LB133086
	Calcium	231000	245000	94	208000	282000	10/23/2024	15:26	LB133086
	Chromium	58.7	52.0	113	42	62	10/23/2024	15:26	LB133086
	Cobalt	2.02			-30	30	10/23/2024	15:26	LB133086
	Copper	2.08	2.0	104	-18	22	10/23/2024	15:26	LB133086
	Iron	102000	101000	101	85600	116500	10/23/2024	15:26	LB133086
	Lead	7.85			-12	12	10/23/2024	15:26	LB133086
	Magnesium	254000	255000	100	216000	294000	10/23/2024	15:26	LB133086
	Manganese	4.31	7.0	62	-13	27	10/23/2024	15:26	LB133086
	Nickel	2.14	2.0	107	-38	42	10/23/2024	15:26	LB133086
	Potassium	-5.76			0	0	10/23/2024	15:26	LB133086
	Selenium	-14.6			-20	20	10/23/2024	15:26	LB133086
	Silver	0.40			-10	10	10/23/2024	15:26	LB133086
	Sodium	18.1			0	0	10/23/2024	15:26	LB133086
	Thallium	16.5			-40	40	10/23/2024	15:26	LB133086
	Vanadium	8.08			-40	40	10/23/2024	15:26	LB133086
	Zinc	5.93			-40	40	10/23/2024	15:26	LB133086
ICSAB01	Aluminum	242000	247000	98	209000	285000	10/23/2024	15:32	LB133086
	Antimony	613	618	99	525	711	10/23/2024	15:32	LB133086
	Arsenic	109	104	105	88.4	120	10/23/2024	15:32	LB133086
	Barium	477	537	89	437	637	10/23/2024	15:32	LB133086
	Beryllium	478	495	97	420	570	10/23/2024	15:32	LB133086
	Cadmium	987	972	102	826	1120	10/23/2024	15:32	LB133086
	Calcium	225000	235000	96	199000	271000	10/23/2024	15:32	LB133086
	Chromium	574	542	106	460	624	10/23/2024	15:32	LB133086
	Cobalt	514	476	108	404	548	10/23/2024	15:32	LB133086
	Copper	486	511	95	434	588	10/23/2024	15:32	LB133086
	Iron	100000	99300	101	84400	114500	10/23/2024	15:32	LB133086
	Lead	55.0	49.0	112	37	61	10/23/2024	15:32	LB133086
	Magnesium	247000	248000	100	210000	286000	10/23/2024	15:32	LB133086
	Manganese	464	507	92	430	584	10/23/2024	15:32	LB133086
	Nickel	1020	954	107	810	1100	10/23/2024	15:32	LB133086
	Potassium	-2.05			0	0	10/23/2024	15:32	LB133086
	Selenium	32.1	46.0	70	26	66	10/23/2024	15:32	LB133086
	Silver	206	201	102	170	232	10/23/2024	15:32	LB133086

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	20.8			0	0	10/23/2024	15:32	LB133086
	Thallium	109	108	101	68	148	10/23/2024	15:32	LB133086
	Vanadium	463	491	94	417	565	10/23/2024	15:32	LB133086
	Zinc	1090	952	114	809	1095	10/23/2024	15:32	LB133086
ICSA01	Aluminum	238000	255000	93	216000	294000	11/04/2024	18:03	LB133296
	Antimony	4.43			-50	50	11/04/2024	18:03	LB133296
	Arsenic	-3.23			-20	20	11/04/2024	18:03	LB133296
	Barium	14.2	6.0	237	-94	106	11/04/2024	18:03	LB133296
	Beryllium	3.74			-6	6	11/04/2024	18:03	LB133296
	Cadmium	3.20	1.0	320	-5	7	11/04/2024	18:03	LB133296
	Calcium	232000	245000	95	208000	282000	11/04/2024	18:03	LB133296
	Chromium	60.6	52.0	116	42	62	11/04/2024	18:03	LB133296
	Cobalt	2.80			-30	30	11/04/2024	18:03	LB133296
	Copper	21.1	2.0	1055	-18	22	11/04/2024	18:03	LB133296
	Iron	95000	101000	94	85600	116500	11/04/2024	18:03	LB133296
	Lead	1.99			-12	12	11/04/2024	18:03	LB133296
	Magnesium	251000	255000	98	216000	294000	11/04/2024	18:03	LB133296
	Manganese	6.90	7.0	99	-13	27	11/04/2024	18:03	LB133296
	Nickel	7.25	2.0	362	-38	42	11/04/2024	18:03	LB133296
	Potassium	-79.8			0	0	11/04/2024	18:03	LB133296
	Selenium	-11.0			-20	20	11/04/2024	18:03	LB133296
	Silver	0.40			-10	10	11/04/2024	18:03	LB133296
	Sodium	149			0	0	11/04/2024	18:03	LB133296
	Thallium	-1.19			-40	40	11/04/2024	18:03	LB133296
	Vanadium	8.02			-40	40	11/04/2024	18:03	LB133296
	Zinc	4.45			-40	40	11/04/2024	18:03	LB133296
ICSAB01	Aluminum	239000	247000	97	209000	285000	11/04/2024	18:07	LB133296
	Antimony	607	618	98	525	711	11/04/2024	18:07	LB133296
	Arsenic	95.4	104	92	88.4	120	11/04/2024	18:07	LB133296
	Barium	490	537	91	437	637	11/04/2024	18:07	LB133296
	Beryllium	534	495	108	420	570	11/04/2024	18:07	LB133296
	Cadmium	984	972	101	826	1120	11/04/2024	18:07	LB133296
	Calcium	232000	235000	99	199000	271000	11/04/2024	18:07	LB133296
	Chromium	595	542	110	460	624	11/04/2024	18:07	LB133296
	Cobalt	515	476	108	404	548	11/04/2024	18:07	LB133296
	Copper	510	511	100	434	588	11/04/2024	18:07	LB133296
	Iron	97000	99300	98	84400	114500	11/04/2024	18:07	LB133296
	Lead	50.7	49.0	104	37	61	11/04/2024	18:07	LB133296
	Magnesium	251000	248000	101	210000	286000	11/04/2024	18:07	LB133296
	Manganese	491	507	97	430	584	11/04/2024	18:07	LB133296
	Nickel	1030	954	108	810	1100	11/04/2024	18:07	LB133296
	Potassium	-80.3			0	0	11/04/2024	18:07	LB133296

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	38.9	46.0	85	26	66	11/04/2024	18:07	LB133296
	Silver	201	201	100	170	232	11/04/2024	18:07	LB133296
	Sodium	146			0	0	11/04/2024	18:07	LB133296
	Thallium	69.5	108	64	68	148	11/04/2024	18:07	LB133296
	Vanadium	485	491	99	417	565	11/04/2024	18:07	LB133296
	Zinc	1050	952	110	809	1095	11/04/2024	18:07	LB133296

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4397

contract: PORT06 **lab code:** CHEM **case no.:** P4397 **sas no.:** P4397

matrix: Water **sample id:** P4354-01 **client id:** 291551MS

Percent Solids for Sample: NA **Spiked ID:** P4354-01MS **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	75 - 125	3.58		0.20	U	4.0	90		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4397

contract: PORT06 **lab code:** CHEM **case no.:** P4397 **sas no.:** P4397

matrix: Water **sample id:** P4354-01 **client id:** 291551MSD

Percent Solids for Sample: NA **Spiked ID:** P4354-01MSD **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	75 - 125	3.59		0.20	U	4.0	90		CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4397

contract: PORT06 **lab code:** CHEM **case no.:** P4397 **sas no.:** P4397

matrix: Water **sample id:** P4397-04 **client id:** WB-301-SWMS

Percent Solids for Sample: NA **Spiked ID:** P4397-04MS **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	1050		80.2		1000	97		P
Antimony	ug/L	75 - 125	504		25.0	U	400	126	N	P
Arsenic	ug/L	75 - 125	456		10.0	U	400	114		P
Barium	ug/L	75 - 125	151		51.6		100	99		P
Beryllium	ug/L	75 - 125	79.3		3.00	U	100	79		P
Cadmium	ug/L	75 - 125	90.2		0.11	J	100	90		P
Calcium	ug/L	75 - 125	146000		144000		500	444		P
Chromium	ug/L	75 - 125	199		10.5		200	94		P
Cobalt	ug/L	75 - 125	99.0		15.0	U	100	99		P
Copper	ug/L	75 - 125	139		10.0	U	150	93		P
Iron	ug/L	75 - 125	2240		289		1500	130	N	P
Lead	ug/L	75 - 125	428		6.00	U	500	86		P
Magnesium	ug/L	75 - 125	371000		365000		1000	507		P
Manganese	ug/L	75 - 125	141		54.9		100	86		P
Nickel	ug/L	75 - 125	246		4.19	J	250	97		P
Potassium	ug/L	75 - 125	245000		225000		5000	395		P
Selenium	ug/L	75 - 125	1150		10.0	U	1000	115		P
Silver	ug/L	75 - 125	51.4		5.00	U	37.5	137	N	P
Sodium	ug/L	75 - 125	3550000	D	3550000	D	1500	262		P
Thallium	ug/L	75 - 125	791		20.0	U	1000	79		P
Vanadium	ug/L	75 - 125	141		4.43	J	150	91		P
Zinc	ug/L	75 - 125	147		12.3	J	100	134	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4397

contract: PORT06 **lab code:** CHEM **case no.:** P4397 **sas no.:** P4397

matrix: Water **sample id:** P4397-04 **client id:** WB-301-SWMSD

Percent Solids for Sample: NA **Spiked ID:** P4397-04MSD **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	1030		80.2		1000	95		P
Antimony	ug/L	75 - 125	495		25.0	U	400	124		P
Arsenic	ug/L	75 - 125	447		10.0	U	400	112		P
Barium	ug/L	75 - 125	148		51.6		100	96		P
Beryllium	ug/L	75 - 125	77.6		3.00	U	100	78		P
Cadmium	ug/L	75 - 125	87.9		0.11	J	100	88		P
Calcium	ug/L	75 - 125	171000		144000		500	5481		P
Chromium	ug/L	75 - 125	192		10.5		200	91		P
Cobalt	ug/L	75 - 125	96.5		15.0	U	100	96		P
Copper	ug/L	75 - 125	109		10.0	U	150	73	N	P
Iron	ug/L	75 - 125	2180		289		1500	126	N	P
Lead	ug/L	75 - 125	417		6.00	U	500	83		P
Magnesium	ug/L	75 - 125	362000		365000		1000	-368		P
Manganese	ug/L	75 - 125	138		54.9		100	83		P
Nickel	ug/L	75 - 125	240		4.19	J	250	94		P
Potassium	ug/L	75 - 125	192000		225000		5000	-655		P
Selenium	ug/L	75 - 125	1130		10.0	U	1000	113		P
Silver	ug/L	75 - 125	49.8		5.00	U	37.5	133	N	P
Sodium	ug/L	75 - 125	3490000	D	3550000	D	1500	-3414		P
Thallium	ug/L	75 - 125	905		20.0	U	1000	90		P
Vanadium	ug/L	75 - 125	137		4.43	J	150	89		P
Zinc	ug/L	75 - 125	182		12.3	J	100	169	N	P

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4397

contract: PORT06 **lab code:** CHEM **case no.:** P4397 **sas no.:** P4397

matrix: Solid **sample id:** P4400-01 **client id:** NB-08-101424MS

Percent Solids for Sample: 91.8 **Spiked ID:** P4400-01MS **Percent Solids for Spike Sample:** 91.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	8670		9110		88.2	-504		P
Antimony	mg/Kg	75 - 125	28.7		0.37	J	35.3	80		P
Arsenic	mg/Kg	75 - 125	30.0		3.56		35.3	75		P
Barium	mg/Kg	75 - 125	67.1		62.2		8.8	55		P
Beryllium	mg/Kg	75 - 125	7.11		0.99		8.8	69	N	P
Cadmium	mg/Kg	75 - 125	10.2		2.20		8.8	91		P
Calcium	mg/Kg	75 - 125	5060		5310		44.1	-564		P
Chromium	mg/Kg	75 - 125	31.9		20.3		17.6	66	N	P
Cobalt	mg/Kg	75 - 125	16.9		8.52		8.8	95		P
Copper	mg/Kg	75 - 125	39.5		30.8		13.2	66	N	P
Iron	mg/Kg	75 - 125	16500		18000		130	-1100		P
Lead	mg/Kg	75 - 125	59.3		20.1		44.1	89		P
Magnesium	mg/Kg	75 - 125	3160		3260		88.2	-116		P
Manganese	mg/Kg	75 - 125	183		184		8.8	-5		P
Nickel	mg/Kg	75 - 125	35.1		14.0		22.1	95		P
Potassium	mg/Kg	75 - 125	1180		902		440	62	N	P
Selenium	mg/Kg	75 - 125	62.4		0.96	U	88.2	71	N	P
Silver	mg/Kg	75 - 125	2.47		0.48	U	3.3	75	N	P
Sodium	mg/Kg	75 - 125	390		313		130	60	N	P
Thallium	mg/Kg	75 - 125	76.0		1.92	U	88.2	86		P
Vanadium	mg/Kg	75 - 125	38.1		29.8		13.2	63	N	P
Zinc	mg/Kg	75 - 125	65.4		60.7		8.8	54		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4397

contract: PORT06 **lab code:** CHEM **case no.:** P4397 **sas no.:** P4397

matrix: Solid **sample id:** P4400-01 **client id:** NB-08-101424MSD

Percent Solids for Sample: 91.8 **Spiked ID:** P4400-01MSD **Percent Solids for Spike Sample:** 91.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	9370		9110		96.4	274		P
Antimony	mg/Kg	75 - 125	31.6		0.37	J	38.6	81		P
Arsenic	mg/Kg	75 - 125	33.4		3.56		38.6	77		P
Barium	mg/Kg	75 - 125	72.9		62.2		9.6	111		P
Beryllium	mg/Kg	75 - 125	7.51		0.99		9.6	68	N	P
Cadmium	mg/Kg	75 - 125	11.2		2.20		9.6	94		P
Calcium	mg/Kg	75 - 125	5490		5310		48.2	373		P
Chromium	mg/Kg	75 - 125	34.9		20.3		19.3	76		P
Cobalt	mg/Kg	75 - 125	18.5		8.52		9.6	104		P
Copper	mg/Kg	75 - 125	43.2		30.8		14.5	86		P
Iron	mg/Kg	75 - 125	18200		18000		140	145		P
Lead	mg/Kg	75 - 125	65.0		20.1		48.2	93		P
Magnesium	mg/Kg	75 - 125	3420		3260		96.4	159		P
Manganese	mg/Kg	75 - 125	198		184		9.6	145		P
Nickel	mg/Kg	75 - 125	38.5		14.0		24.1	101		P
Potassium	mg/Kg	75 - 125	1300		902		480	84		P
Selenium	mg/Kg	75 - 125	69.5		0.96	U	96.4	72	N	P
Silver	mg/Kg	75 - 125	2.76		0.48	U	3.6	77		P
Sodium	mg/Kg	75 - 125	429		313		140	83		P
Thallium	mg/Kg	75 - 125	82.2		1.92	U	96.4	85		P
Vanadium	mg/Kg	75 - 125	41.6		29.8		14.5	82		P
Zinc	mg/Kg	75 - 125	71.3		60.7		9.6	111		P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4397

contract: PORT06 **lab code:** CHEM **case no.:** P4397 **sas no.:** P4397

matrix: Solid **sample id:** P4410-01 **client id:** TR-04-101524MS

Percent Solids for Sample: 97.3 **Spiked ID:** P4410-01MS **Percent Solids for Spike Sample:** 97.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.31		0.018		0.26	114		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4397

contract: PORT06 **lab code:** CHEM **case no.:** P4397 **sas no.:** P4397

matrix: Solid **sample id:** P4410-01 **client id:** TR-04-101524MSD

Percent Solids for Sample: 97.3 **Spiked ID:** P4410-01MSD **Percent Solids for Spike Sample:** 97.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.32		0.018		0.25	120		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Water **Level:** LOW **Client ID:** WB-301-SWA

Sample ID: P4397-04 **Spiked ID:** P4397-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	486		25.0	U	400	122		P
Copper	ug/L	75 - 125	107		10.0	U	150	71		P
Iron	ug/L	75 - 125	2130		289		1500	123		P
Silver	ug/L	75 - 125	49.0		5.00	U	37.5	131		P
Zinc	ug/L	75 - 125	178		12.3	J	100	165		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Solid **Level:** LOW **Client ID:** NB-08-101424A

Sample ID: P4400-01 **Spiked ID:** P4400-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Beryllium	mg/Kg	75 - 125	7.36		0.99		9.60	66		P
Chromium	mg/Kg	75 - 125	34.8		20.3		19.2	76		P
Copper	mg/Kg	75 - 125	43.2		30.8		14.4	86		P
Potassium	mg/Kg	75 - 125	1320		902		480	86		P
Selenium	mg/Kg	75 - 125	70.1		0.96	U	96.0	73		P
Silver	mg/Kg	75 - 125	2.72		0.48	U	3.60	76		P
Sodium	mg/Kg	75 - 125	427		313		140	82		P
Vanadium	mg/Kg	75 - 125	41.3		29.8		14.4	80		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Water **Sample ID:** P4354-01 **Client ID:** 291551DUP

Percent Solids for Sample: NA **Duplicate ID** P4354-01DUP **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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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Water **Sample ID:** P4354-01MS **Client ID:** 291551MSD

Percent Solids for Sample: NA **Duplicate ID** P4354-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.58		3.59		0		CV

"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.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Water **Sample ID:** P4397-04 **Client ID:** WB-301-SWDUP

Percent Solids for Sample: NA **Duplicate ID** P4397-04DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	80.2		49.7	J	47		P
Antimony	ug/L	20	25.0	U	2.10	J	200.0		P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	51.6		51.3		1		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	0.11	J	3.00	U	200.0		P
Calcium	ug/L	20	144000		142000		1		P
Chromium	ug/L	20	10.5		10.4		1		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	289		275		5		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	365000		361000		1		P
Manganese	ug/L	20	54.9		54.2		1		P
Nickel	ug/L	20	4.19	J	4.26	J	2		P
Potassium	ug/L	20	225000		224000		0		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	3550000	D	3710000	D	4		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	4.43	J	3.85	J	14		P
Zinc	ug/L	20	12.3	J	12.1	J	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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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Water **Sample ID:** P4397-04MS **Client ID:** WB-301-SWMSD

Percent Solids for Sample: NA **Duplicate ID** P4397-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1050		1030		2		P
Antimony	ug/L	20	504		495		2		P
Arsenic	ug/L	20	456		447		2		P
Barium	ug/L	20	151		148		2		P
Beryllium	ug/L	20	79.3		77.6		2		P
Cadmium	ug/L	20	90.2		87.9		3		P
Calcium	ug/L	20	146000		171000		16		P
Chromium	ug/L	20	199		192		4		P
Cobalt	ug/L	20	99.0		96.5		3		P
Copper	ug/L	20	139		109		24	*	P
Iron	ug/L	20	2240		2180		3		P
Lead	ug/L	20	428		417		3		P
Magnesium	ug/L	20	371000		362000		2		P
Manganese	ug/L	20	141		138		2		P
Nickel	ug/L	20	246		240		2		P
Potassium	ug/L	20	245000		192000		24	*	P
Selenium	ug/L	20	1150		1130		2		P
Silver	ug/L	20	51.4		49.8		3		P
Sodium	ug/L	20	3550000	D	3490000	D	2		P
Thallium	ug/L	20	791		905		13		P
Vanadium	ug/L	20	141		137		3		P
Zinc	ug/L	20	147		182		21	*	P

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Solid **Sample ID:** P4400-01 **Client ID:** NB-08-101424DUP

Percent Solids for Sample: 91.8 **Duplicate ID** P4400-01DUP **Percent Solids for Spike Sample:** 91.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	9110		9080		0		P
Antimony	mg/Kg	20	0.37	J	0.33	J	11		P
Arsenic	mg/Kg	20	3.56		3.71		4		P
Barium	mg/Kg	20	62.2		62.9		1		P
Beryllium	mg/Kg	20	0.99		1.29		26	*	P
Cadmium	mg/Kg	20	2.20		2.18		1		P
Calcium	mg/Kg	20	5310		5320		0		P
Chromium	mg/Kg	20	20.3		20.2		0		P
Cobalt	mg/Kg	20	8.52		8.55		0		P
Copper	mg/Kg	20	30.8		30.4		1		P
Iron	mg/Kg	20	18000		18200		1		P
Lead	mg/Kg	20	20.1		20.8		3		P
Magnesium	mg/Kg	20	3260		3250		0		P
Manganese	mg/Kg	20	184		184		0		P
Nickel	mg/Kg	20	14.0		14.1		1		P
Potassium	mg/Kg	20	902		912		1		P
Selenium	mg/Kg	20	0.96	U	0.95	U			P
Silver	mg/Kg	20	0.48	U	0.47	U			P
Sodium	mg/Kg	20	313		313		0		P
Thallium	mg/Kg	20	1.92	U	1.89	U			P
Vanadium	mg/Kg	20	29.8		29.0		3		P
Zinc	mg/Kg	20	60.7		63.1		4		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.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Solid **Sample ID:** P4400-01MS **Client ID:** NB-08-101424MSD

Percent Solids for Sample: 91.8 **Duplicate ID** P4400-01MSD **Percent Solids for Spike Sample:** 91.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	8670		9370		8		P
Antimony	mg/Kg	20	28.7		31.6		10		P
Arsenic	mg/Kg	20	30.0		33.4		11		P
Barium	mg/Kg	20	67.1		72.9		8		P
Beryllium	mg/Kg	20	7.11		7.51		5		P
Cadmium	mg/Kg	20	10.2		11.2		9		P
Calcium	mg/Kg	20	5060		5490		8		P
Chromium	mg/Kg	20	31.9		34.9		9		P
Cobalt	mg/Kg	20	16.9		18.5		9		P
Copper	mg/Kg	20	39.5		43.2		9		P
Iron	mg/Kg	20	16500		18200		10		P
Lead	mg/Kg	20	59.3		65.0		9		P
Magnesium	mg/Kg	20	3160		3420		8		P
Manganese	mg/Kg	20	183		198		8		P
Nickel	mg/Kg	20	35.1		38.5		9		P
Potassium	mg/Kg	20	1180		1300		10		P
Selenium	mg/Kg	20	62.4		69.5		11		P
Silver	mg/Kg	20	2.47		2.76		11		P
Sodium	mg/Kg	20	390		429		10		P
Thallium	mg/Kg	20	76.0		82.2		8		P
Vanadium	mg/Kg	20	38.1		41.6		9		P
Zinc	mg/Kg	20	65.4		71.3		9		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.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Solid **Sample ID:** P4410-01 **Client ID:** TR-04-101524DUP

Percent Solids for Sample: 97.3 **Duplicate ID** P4410-01DUP **Percent Solids for Spike Sample:** 97.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.018		0.016		12		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.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Solid **Sample ID:** P4410-01MS **Client ID:** TR-04-101524MSD

Percent Solids for Sample: 97.3 **Duplicate ID** P4410-01MSD **Percent Solids for Spike Sample:** 97.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.31		0.32		1		CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164156BS							
Aluminum	mg/Kg	95.7	97.6		102	80 - 120	P
Antimony	mg/Kg	38.3	39.9		104	80 - 120	P
Arsenic	mg/Kg	38.3	37.7		98	80 - 120	P
Barium	mg/Kg	9.6	9.63		100	80 - 120	P
Beryllium	mg/Kg	9.6	10.6		110	80 - 120	P
Cadmium	mg/Kg	9.6	9.54		99	80 - 120	P
Calcium	mg/Kg	47.8	53.2	J	111	80 - 120	P
Chromium	mg/Kg	19.1	20.8		109	80 - 120	P
Cobalt	mg/Kg	9.6	10.1		105	80 - 120	P
Copper	mg/Kg	14.4	15.8		110	80 - 120	P
Iron	mg/Kg	140	148		106	80 - 120	P
Lead	mg/Kg	47.8	47.8		100	80 - 120	P
Magnesium	mg/Kg	95.7	100		104	80 - 120	P
Manganese	mg/Kg	9.6	10.3		108	80 - 120	P
Nickel	mg/Kg	23.9	25.5		107	80 - 120	P
Potassium	mg/Kg	480	483		101	80 - 120	P
Selenium	mg/Kg	95.7	96.1		100	80 - 120	P
Silver	mg/Kg	3.6	3.85		107	80 - 120	P
Sodium	mg/Kg	140	141		101	80 - 120	P
Thallium	mg/Kg	95.7	102		107	80 - 120	P
Vanadium	mg/Kg	14.4	15.4		107	80 - 120	P
Zinc	mg/Kg	9.6	11.0		114	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164160BS							
Mercury	ug/L	4.0	4.09		102	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164174BS							
Aluminum	ug/L	1000	888		89	80 - 120	P
Antimony	ug/L	400	372		93	80 - 120	P
Arsenic	ug/L	400	358		90	80 - 120	P
Barium	ug/L	100	89.7		90	80 - 120	P
Beryllium	ug/L	100	93.4		93	80 - 120	P
Cadmium	ug/L	100	89.9		90	80 - 120	P
Calcium	ug/L	500	464	J	93	80 - 120	P
Chromium	ug/L	200	202		101	80 - 120	P
Cobalt	ug/L	100	94.4		94	80 - 120	P
Copper	ug/L	150	146		97	80 - 120	P
Iron	ug/L	1500	1440		96	80 - 120	P
Lead	ug/L	500	456		91	80 - 120	P
Magnesium	ug/L	1000	876	J	88	80 - 120	P
Manganese	ug/L	100	95.2		95	80 - 120	P
Nickel	ug/L	250	237		95	80 - 120	P
Potassium	ug/L	5000	4840		97	80 - 120	P
Selenium	ug/L	1000	901		90	80 - 120	P
Silver	ug/L	37.5	37.3		100	80 - 120	P
Sodium	ug/L	1500	1480		99	80 - 120	P
Thallium	ug/L	1000	1020		102	80 - 120	P
Vanadium	ug/L	150	133		89	80 - 120	P
Zinc	ug/L	100	102		102	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164194BS							
Mercury	mg/Kg	0.26	0.26		100	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

291551L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb132940 **Lab Sample ID :** P4354-01L **SDG No.:** P4397

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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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

WB-301-SWL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133296 **Lab Sample ID :** P4397-04L **SDG No.:** P4397

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	80.2		250	U	100.0		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	51.6		64.0	J	24		P
Beryllium	3.00	U	15.0	U			P
Cadmium	0.11	J	15.0	U	100.0		P
Calcium	144000		160000		11		P
Chromium	10.5		11.7	J	11		P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	289		258		11		P
Lead	6.00	U	30.0	U			P
Magnesium	365000		422000		15		P
Manganese	54.9		60.6		10		P
Nickel	4.19	J	5.62	J	34		P
Potassium	225000		182000		19		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	3550000	D	3770000	D	6		P
Thallium	20.0	U	100	U			P
Vanadium	4.43	J	100	U	100.0		P
Zinc	12.3	J	11.3	J	8		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

NB-08-101424L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb132963 **Lab Sample ID :** P4400-01L **SDG No.:** P4397

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	9110		11400		25		P
Antimony	0.37	J	12.0	U	100.0		P
Arsenic	3.56		4.11	J	15		P
Barium	62.2		77.9		25		P
Beryllium	0.99		1.82		83		P
Cadmium	2.20		1.48		33		P
Calcium	5310		7040		33		P
Chromium	20.3		27.8		37		P
Cobalt	8.52		9.20		8		P
Copper	30.8		42.5		38		P
Iron	18000		24200		35		P
Lead	20.1		23.6		18		P
Magnesium	3260		4270		31		P
Manganese	184		246		34		P
Nickel	14.0		15.7		12		P
Potassium	902		1120		24		P
Selenium	0.96	U	4.80	U			P
Silver	0.48	U	2.40	U			P
Sodium	313		397	J	27		P
Thallium	1.92	U	9.60	U			P
Vanadium	29.8		38.1		28		P
Zinc	60.7		82.4		36		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

TR-04-101524L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb132960 **Lab Sample ID :** P4410-01L **SDG No.:** P4397

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	0.018		0.065	U	100.0		CV

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4397 **Sas no.:** P4397 **Sdg no.:** P4397

Instrument id number: **Method:** **Run number:** LB132940

Start date: 10/15/2024 **End date:** 10/15/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1215	HG
S0.2	S0.2	1	1217	HG
S2.5	S2.5	1	1219	HG
S5	S5	1	1221	HG
S7.5	S7.5	1	1224	HG
S10	S10	1	1229	HG
ICV37	ICV37	1	1231	HG
ICB37	ICB37	1	1234	HG
CCV21	CCV21	1	1236	HG
CCB21	CCB21	1	1238	HG
CRA	CRA	1	1241	HG
CCV22	CCV22	1	1306	HG
CCB22	CCB22	1	1308	HG
CCV23	CCV23	1	1333	HG
CCB23	CCB23	1	1335	HG
PB164160BL	PB164160BL	1	1347	HG
PB164160BS	PB164160BS	1	1349	HG
P4354-01DUP	291551DUP	1	1354	HG
P4354-01MS	291551MS	1	1356	HG
P4354-01MSD	291551MSD	1	1358	HG
CCV24	CCV24	1	1400	HG
CCB24	CCB24	1	1403	HG
P4397-04	WB-301-SW	1	1412	HG
P4354-01L	291551L	5	1423	HG
CCV25	CCV25	1	1428	HG
CCB25	CCB25	1	1430	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4397 **Sas no.:** P4397 **Sdg no.:** P4397

Instrument id number: **Method:** **Run number:** LB132960

Start date: 10/16/2024 **End date:** 10/16/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1333	HG
S0.2	S0.2	1	1335	HG
S2.5	S2.5	1	1337	HG
S5	S5	1	1339	HG
S7.5	S7.5	1	1347	HG
S10	S10	1	1349	HG
ICV39	ICV39	1	1353	HG
ICB39	ICB39	1	1355	HG
CCV29	CCV29	1	1357	HG
CCB29	CCB29	1	1400	HG
CRA	CRA	1	1405	HG
PB164194BL	PB164194BL	1	1415	HG
PB164194BS	PB164194BS	1	1417	HG
P4397-02	WB-301-BOT	1	1421	HG
CCV30	CCV30	1	1431	HG
CCB30	CCB30	1	1433	HG
P4410-01DUP	TR-04-101524DUP	1	1440	HG
P4410-01MS	TR-04-101524MS	1	1442	HG
P4410-01MSD	TR-04-101524MSD	1	1445	HG
P4410-01L	TR-04-101524L	5	1447	HG
P4397-01	WB-301-TOP	10	1452	HG
CCV31	CCV31	1	1454	HG
CCB31	CCB31	1	1456	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4397 **Sas no.:** P4397 **Sdg no.:** P4397

Instrument id number: **Method:** **Run number:** LB132963

Start date: 10/16/2024 **End date:** 10/16/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1111	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	1116	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	1120	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	1124	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	1128	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	1132	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	1137	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	1144	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	1148	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	1155	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	1200	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	1204	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	1214	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	1218	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	1310	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	1317	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4397-01	WB-301-TOP	1	1326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4397-02	WB-301-BOT	1	1330	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4400-01DUP	NB-08-101424DUP	1	1334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4400-01L	NB-08-101424L	5	1338	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4400-01MS	NB-08-101424MS	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4400-01MSD	NB-08-101424MSD	1	1347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4400-01A	NB-08-101424A	1	1351	Ag,Be,Cr,Cu,K,Na,Se,V
CCV03	CCV03	1	1403	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	1407	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164156BL	PB164156BL	1	1411	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164156BS	PB164156BS	1	1416	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	1455	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	1459	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	1546	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	1550	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4397-01	WB-301-TOP	5	1555	Cr
CCV06	CCV06	1	1639	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	1643	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	1811	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	1816	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	1846	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	1850	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.:** P4397 **Sas no.:** P4397 **Sdg no.:** P4397

Instrument id number: **Method:** **Run number:** LB133086

Start date: 10/23/2024 **End date:** 10/23/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1424	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	1428	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	1432	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	1437	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	1441	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	1445	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	1459	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	1511	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	1516	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	1522	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	1526	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	1532	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	1557	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	1602	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	1648	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	1652	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	1742	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	1746	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	1832	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	1836	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164174BL	PB164174BL	1	1907	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164174BS	PB164174BS	1	1911	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	1923	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	1928	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	2015	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	2021	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	2128	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	2134	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	2220	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	2225	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.:** P4397 **Sas no.:** P4397 **Sdg no.:** P4397

Instrument id number: **Method:** **Run number:** LB133296

Start date: 11/04/2024 **End date:** 11/04/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1657	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	1702	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	1706	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	1710	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	1714	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	1718	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	1728	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	1737	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	1747	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	1752	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	1803	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	1807	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	1811	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	1816	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	1902	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	1907	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4397-04	WB-301-SW	1	1928	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4397-04DUP	WB-301-SWDUP	1	1932	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4397-04L	WB-301-SWL	5	1937	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4397-04MS	WB-301-SWMS	1	1941	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1946	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	1958	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4397-04MSD	WB-301-SWMSD	1	2004	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4397-04A	WB-301-SWA	1	2008	Ag,Cu,Fe,Sb,Zn
CCV04	CCV04	1	2107	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	2111	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4397-04	WB-301-SW	10	2121	Na
P4397-04DUP	WB-301-SWDUP	10	2125	Na
P4397-04L	WB-301-SWL	50	2129	Na
P4397-04MS	WB-301-SWMS	10	2134	Na
P4397-04MSD	WB-301-SWMSD	10	2138	Na
CCV05	CCV05	1	2147	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	2151	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.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**SOIL**			**10/10/24**			**10/11/24**
			Mercury	7471B		10/15/24	10/16/24	
			Metals ICP-TAL	6010D		10/15/24	10/16/24	
P4397-02	**WB-301-BOT**	**SOIL**			**10/10/24**			**10/11/24**
			Mercury	7471B		10/15/24	10/16/24	
			Metals ICP-TAL	6010D		10/15/24	10/16/24	
P4397-04	**WB-301-SW**	**Water**			**10/10/24**			**10/11/24**
			Mercury	7470A		10/15/24	10/15/24	
			Metals ICP-TAL	6010D		10/16/24	11/04/24	
P4397-06	**WB-301-BOT**	**TCLP**			**10/10/24**			**10/11/24**
			TCLP ICP Metals	6010D		10/21/24	10/23/24	
			TCLP Mercury	7470A		10/22/24	10/23/24	

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4397 **SAS No.:** P4397

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164156**						
P4397-01	WB-301-TOP	SAM	SOLID	10/15/2024	2.17	100.0	63.30
P4397-02	WB-301-BOT	SAM	SOLID	10/15/2024	2.15	100.0	76.00
P4400-01DUP	NB-08-101424DUP	DUP	SOLID	10/15/2024	2.30	100.0	91.80
P4400-01MS	NB-08-101424MS	MS	SOLID	10/15/2024	2.47	100.0	91.80
P4400-01MSD	NB-08-101424MSD	MSD	SOLID	10/15/2024	2.26	100.0	91.80
PB164156BL	PB164156BL	MB	SOLID	10/15/2024	2.09	100.0	100.00
PB164156BS	PB164156BS	LCS	SOLID	10/15/2024	2.09	100.0	100.00

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4397 **SAS No.:** P4397

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164160**						
P4354-01DUP	291551DUP	DUP	WATER	10/15/2024	30.0	30.0	
P4354-01MS	291551MS	MS	WATER	10/15/2024	30.0	30.0	
P4354-01MSD	291551MSD	MSD	WATER	10/15/2024	30.0	30.0	
P4397-04	WB-301-SW	SAM	WATER	10/15/2024	30.0	30.0	
PB164160BL	PB164160BL	MB	WATER	10/15/2024	30.0	30.0	
PB164160BS	PB164160BS	LCS	WATER	10/15/2024	30.0	30.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4397 **SAS No.:** P4397

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164174**						
P4397-04	WB-301-SW	SAM	WATER	10/16/2024	50.0	25.0	
P4397-04DUP	WB-301-SWDUP	DUP	WATER	10/16/2024	50.0	25.0	
P4397-04MS	WB-301-SWMS	MS	WATER	10/16/2024	50.0	25.0	
P4397-04MSD	WB-301-SWMSD	MSD	WATER	10/16/2024	50.0	25.0	
PB164174BL	PB164174BL	MB	WATER	10/16/2024	50.0	25.0	
PB164174BS	PB164174BS	LCS	WATER	10/16/2024	50.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4397 **SAS No.:** P4397

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164194**						
P4397-01	WB-301-TOP	SAM	SOLID	10/15/2024	0.60	35.0	63.30
P4397-02	WB-301-BOT	SAM	SOLID	10/15/2024	0.53	35.0	76.00
P4410-01DUP	TR-04-101524DUP	DUP	SOLID	10/15/2024	0.54	35.0	97.30
P4410-01MS	TR-04-101524MS	MS	SOLID	10/15/2024	0.56	35.0	97.30
P4410-01MSD	TR-04-101524MSD	MSD	SOLID	10/15/2024	0.57	35.0	97.30
PB164194BL	PB164194BL	MB	SOLID	10/15/2024	0.52	35.0	100.00
PB164194BS	PB164194BS	LCS	SOLID	10/15/2024	0.54	35.0	100.00

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132940

Review By	jaswal	Review On	10/15/2024 10:24:24 PM
Supervise By	mohan	Supervise On	10/15/2024 10:25:22 PM

STD. NAME	STD REF.#
ICAL Standard	MP82784,MP82785,MP82786,MP82787,MP82788,MP82789
ICV Standard	MP82790
CCV Standard	MP82792
ICSA Standard	
CRI Standard	MP82794
LCS Standard	
Chk Standard	MP82791,MP82793,MP82795,MP82797

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/15/24 12:15		Mohan	OK
2	S0.2	S0.2	CAL2	10/15/24 12:17		Mohan	OK
3	S2.5	S2.5	CAL3	10/15/24 12:19		Mohan	OK
4	S5	S5	CAL4	10/15/24 12:21		Mohan	OK
5	S7.5	S7.5	CAL5	10/15/24 12:24		Mohan	OK
6	S10	S10	CAL6	10/15/24 12:29		Mohan	OK
7	ICV37	ICV37	ICV	10/15/24 12:31		Mohan	OK
8	ICB37	ICB37	ICB	10/15/24 12:34		Mohan	OK
9	CCV21	CCV21	CCV	10/15/24 12:36		Mohan	OK
10	CCB21	CCB21	CCB	10/15/24 12:38		Mohan	OK
11	CRA	CRA	CRDL	10/15/24 12:41		Mohan	OK
12	HighStd	HighStd	HIGH STD	10/15/24 12:43		Mohan	OK
13	ChkStd	ChkStd	SAM	10/15/24 12:45		Mohan	OK
14	PB164159BL	PB164159BL	MB	10/15/24 12:47		Mohan	OK
15	PB164159BS	PB164159BS	LCS	10/15/24 12:52		Mohan	OK
16	P4375-02	CONCRETE-PADS-1	SAM	10/15/24 12:55		Mohan	OK
17	P4375-04	CONCRETE-PADS-2	SAM	10/15/24 12:57		Mohan	OK
18	P4375-06	CONCRETE-PADS-3	SAM	10/15/24 12:59		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132940

Review By	jaswal	Review On	10/15/2024 10:24:24 PM
Supervise By	mohan	Supervise On	10/15/2024 10:25:22 PM

STD. NAME	STD REF.#
ICAL Standard	MP82784,MP82785,MP82786,MP82787,MP82788,MP82789
ICV Standard	MP82790
CCV Standard	MP82792
ICSA Standard	
CRI Standard	MP82794
LCS Standard	
Chk Standard	MP82791,MP82793,MP82795,MP82797

19	P4375-08	CONCRETE-PADS-4	SAM	10/15/24 13:01		Mohan	OK
20	P4375-10	CONCRETE-PADS-5	SAM	10/15/24 13:04		Mohan	OK
21	CCV22	CCV22	CCV	10/15/24 13:06		Mohan	OK
22	CCB22	CCB22	CCB	10/15/24 13:08		Mohan	OK
23	P4375-12	CONCRETE-PADS-6	SAM	10/15/24 13:10		Mohan	OK
24	P4375-14	CONCRETE-PADS-7	SAM	10/15/24 13:13		Mohan	OK
25	P4375-16	CONCRETE-PADS-8	SAM	10/15/24 13:15		Mohan	OK
26	P4375-18	CONCRETE-PADS-9	SAM	10/15/24 13:17		Mohan	OK
27	P4375-20	CONCRETE-PADS-10	SAM	10/15/24 13:19		Mohan	OK
28	P4375-22	CONCRETE-PADS-11	SAM	10/15/24 13:22		Mohan	OK
29	P4375-24	FENCE-POST-1	SAM	10/15/24 13:24		Mohan	OK
30	P4375-26	FENCE-POST-2	SAM	10/15/24 13:26		Mohan	OK
31	P4375-28	FENCE-POST-3	SAM	10/15/24 13:29		Mohan	OK
32	P4375-28DUP	FENCE-POST-3DUP	DUP	10/15/24 13:31		Mohan	OK
33	CCV23	CCV23	CCV	10/15/24 13:33		Mohan	OK
34	CCB23	CCB23	CCB	10/15/24 13:35		Mohan	OK
35	P4375-28MS	FENCE-POST-3MS	MS	10/15/24 13:38		Mohan	OK
36	P4375-28MSD	FENCE-POST-3MSD	MSD	10/15/24 13:40		Mohan	OK
37	P4395-02	F05308-SOLID	SAM	10/15/24 13:42		Mohan	OK
38	P4403-02	Hawthorne TP Soil	SAM	10/15/24 13:44		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132940

Review By	jaswal	Review On	10/15/2024 10:24:24 PM
Supervise By	mohan	Supervise On	10/15/2024 10:25:22 PM

STD. NAME	STD REF.#
ICAL Standard	MP82784,MP82785,MP82786,MP82787,MP82788,MP82789
ICV Standard	MP82790
CCV Standard	MP82792
ICSA Standard	
CRI Standard	MP82794
LCS Standard	
Chk Standard	MP82791,MP82793,MP82795,MP82797

39	PB164160BL	PB164160BL	MB	10/15/24 13:47		Mohan	OK
40	PB164160BS	PB164160BS	LCS	10/15/24 13:49		Mohan	OK
41	P4354-01	291551	SAM	10/15/24 13:51		Mohan	OK
42	P4354-01DUP	291551DUP	DUP	10/15/24 13:54		Mohan	OK
43	P4354-01MS	291551MS	MS	10/15/24 13:56		Mohan	OK
44	P4354-01MSD	291551MSD	MSD	10/15/24 13:58		Mohan	OK
45	CCV24	CCV24	CCV	10/15/24 14:00		Mohan	OK
46	CCB24	CCB24	CCB	10/15/24 14:03		Mohan	OK
47	P4370-02	COMP	SAM	10/15/24 14:05		Mohan	OK
48	P4382-01	DECON-DRUM	SAM	10/15/24 14:07		Mohan	OK
49	P4396-01	WASTE-WATER-FRA	SAM	10/15/24 14:09		Mohan	OK
50	P4397-04	WB-301-SW	SAM	10/15/24 14:12		Mohan	OK
51	PB164021TB	PB164021TB	MB	10/15/24 14:14		Mohan	OK
52	PB164096TB	PB164096TB	MB	10/15/24 14:16		Mohan	OK
53	P4375-28L	FENCE-POST-3L	SD	10/15/24 14:19		Mohan	OK
54	P4375-28A	FENCE-POST-3A	PS	10/15/24 14:21		Mohan	OK
55	P4354-01L	291551L	SD	10/15/24 14:23		Mohan	OK
56	P4354-01A	291551A	PS	10/15/24 14:25		Mohan	OK
57	CCV25	CCV25	CCV	10/15/24 14:28		Mohan	OK
58	CCB25	CCB25	CCB	10/15/24 14:30		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132960

Review By	Mohan	Review On	10/16/2024 5:09:48 PM
Supervise By	jaswal	Supervise On	10/16/2024 11:20:54 PM

STD. NAME	STD REF.#
ICAL Standard	MP82784,MP82785,MP82786,MP82787,MP82788,MP82789
ICV Standard	MP82790
CCV Standard	MP82792
ICSA Standard	
CRI Standard	MP82794
LCS Standard	
Chk Standard	MP82791,MP82793,MP82795,MP82801

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/16/24 13:33		Mohan	OK
2	S0.2	S0.2	CAL2	10/16/24 13:35		Mohan	OK
3	S2.5	S2.5	CAL3	10/16/24 13:37		Mohan	OK
4	S5	S5	CAL4	10/16/24 13:39		Mohan	OK
5	S7.5	S7.5	CAL5	10/16/24 13:47		Mohan	OK
6	S10	S10	CAL6	10/16/24 13:49		Mohan	OK
7	ICV39	ICV39	ICV	10/16/24 13:53		Mohan	OK
8	ICB39	ICB39	ICB	10/16/24 13:55		Mohan	OK
9	CCV29	CCV29	CCV	10/16/24 13:57		Mohan	OK
10	CCB29	CCB29	CCB	10/16/24 14:00		Mohan	OK
11	CRA	CRA	CRDL	10/16/24 14:05		Mohan	OK
12	HighStd	HighStd	HIGH STD	10/16/24 14:07		Mohan	OK
13	ChkStd	ChkStd	SAM	10/16/24 14:10		Mohan	OK
14	PB164194BL	PB164194BL	MB	10/16/24 14:15		Mohan	OK
15	PB164194BS	PB164194BS	LCS	10/16/24 14:17		Mohan	OK
16	P4397-01	WB-301-TOP	SAM	10/16/24 14:19	High	Mohan	Dilution
17	P4397-02	WB-301-BOT	SAM	10/16/24 14:21		Mohan	OK
18	P4400-01	NB-08-101424	SAM	10/16/24 14:24		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132960

Review By	Mohan	Review On	10/16/2024 5:09:48 PM
Supervise By	jaswal	Supervise On	10/16/2024 11:20:54 PM

STD. NAME	STD REF.#
ICAL Standard	MP82784,MP82785,MP82786,MP82787,MP82788,MP82789
ICV Standard	MP82790
CCV Standard	MP82792
ICSA Standard	
CRI Standard	MP82794
LCS Standard	
Chk Standard	MP82791,MP82793,MP82795,MP82801

19	P4401-01	SU-03-101424	SAM	10/16/24 14:27		Mohan	OK
20	P4403-01	Hawthorne TP Soil	SAM	10/16/24 14:29		Mohan	OK
21	CCV30	CCV30	CCV	10/16/24 14:31		Mohan	OK
22	CCB30	CCB30	CCB	10/16/24 14:33		Mohan	OK
23	P4406-01	OK-02-101524	SAM	10/16/24 14:36		Mohan	OK
24	P4410-01	TR-04-101524	SAM	10/16/24 14:38		Mohan	OK
25	P4410-01DUP	TR-04-101524DUP	DUP	10/16/24 14:40		Mohan	OK
26	P4410-01MS	TR-04-101524MS	MS	10/16/24 14:42		Mohan	OK
27	P4410-01MSD	TR-04-101524MSD	MSD	10/16/24 14:45		Mohan	OK
28	P4410-01L	TR-04-101524L	SD	10/16/24 14:47		Mohan	OK
29	P4410-01A	TR-04-101524A	PS	10/16/24 14:49		Mohan	OK
30	P4397-01DL	WB-301-TOPDL	SAM	10/16/24 14:52	Report 10X	Mohan	Confirms
31	CCV31	CCV31	CCV	10/16/24 14:54		Mohan	OK
32	CCB31	CCB31	CCB	10/16/24 14:56		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB132963

Review By	kareem	Review On	10/25/2024 2:49:00 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:08:56 AM

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	10/16/24 11:11		Kareem	OK
2	S1	S1	CAL2	10/16/24 11:16		Kareem	OK
3	S2	S2	CAL3	10/16/24 11:20		Kareem	OK
4	S3	S3	CAL4	10/16/24 11:24		Kareem	OK
5	S4	S4	CAL5	10/16/24 11:28		Kareem	OK
6	S5	S5	CAL6	10/16/24 11:32		Kareem	OK
7	ICV01	ICV01	ICV	10/16/24 11:37		Kareem	OK
8	LLICV01	LLICV01	LLICV	10/16/24 11:44		Kareem	OK
9	ICB01	ICB01	ICB	10/16/24 11:48		Kareem	OK
10	CRI01	CRI01	CRDL	10/16/24 11:55		Kareem	OK
11	ICSA01	ICSA01	ICSA	10/16/24 12:00		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	10/16/24 12:04		Kareem	OK
13	CCV01	CCV01	CCV	10/16/24 12:14		Kareem	OK
14	CCB01	CCB01	CCB	10/16/24 12:18		Kareem	OK
15	LR1	LR1	HIGH STD	10/16/24 12:23		Kareem	OK
16	LR2	LR2	HIGH STD	10/16/24 12:28		Kareem	OK
17	P4364-11	SB-04-2.0-2.5	SAM	10/16/24 12:33	Cu high	Kareem	Dilution
18	P4364-13DL	SB-05-0.167-0.667DL	SAM	10/16/24 12:40	2x for Ca	Kareem	Confirms

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB132963

Review By	kareem	Review On	10/25/2024 2:49:00 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:08:56 AM

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	P4364-14	SB-06-0.167-0.667	SAM	10/16/24 12:44		Kareem	OK
20	P4364-15	SB-07-0.167-0.667	SAM	10/16/24 12:48		Kareem	OK
21	P4364-16	SB-08-0.167-0.667	SAM	10/16/24 12:53	Ca high	Kareem	Dilution
22	P4400-01	NB-08-101424	SAM	10/16/24 12:57		Kareem	OK
23	P4403-02	Hawthorne TP Soil	SAM	10/16/24 13:01		Kareem	OK
24	P4364-11DL	SB-04-2.0-2.5DL	SAM	10/16/24 13:06	5x for Cu	Kareem	Confirms
25	CCV02	CCV02	CCV	10/16/24 13:10		Kareem	OK
26	CCB02	CCB02	CCB	10/16/24 13:17		Kareem	OK
27	P4364-16DL	SB-08-0.167-0.667DL	SAM	10/16/24 13:22	5x for Ca	Kareem	Confirms
28	P4397-01	WB-301-TOP	SAM	10/16/24 13:26	Cr high	Kareem	Dilution
29	P4397-02	WB-301-BOT	SAM	10/16/24 13:30		Kareem	OK
30	P4400-01DUP	NB-08-101424DUP	DUP	10/16/24 13:34		Kareem	OK
31	P4400-01L	NB-08-101424L	SD	10/16/24 13:38		Kareem	OK
32	P4400-01MS	NB-08-101424MS	MS	10/16/24 13:42	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
33	P4400-01MSD	NB-08-101424MSD	MSD	10/16/24 13:47	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
34	P4400-01A	NB-08-101424A	PS	10/16/24 13:51	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
35	P4401-01	SU-03-101424	SAM	10/16/24 13:55		Kareem	OK

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Supervise By	jaswal	Supervise On	10/26/2024 8:08:56 AM

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

36	P4403-01	Hawthorne TP Soil	SAM	10/16/24 13:59		Kareem	OK
37	CCV03	CCV03	CCV	10/16/24 14:03		Kareem	OK
38	CCB03	CCB03	CCB	10/16/24 14:07		Kareem	OK
39	PB164156BL	PB164156BL	MB	10/16/24 14:11		Kareem	OK
40	PB164156BS	PB164156BS	LCS	10/16/24 14:16	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
41	P4364-14DUP	SB-06-0.167-0.667DU	DUP	10/16/24 14:20		Kareem	OK
42	P4364-14L	SB-06-0.167-0.667L	SD	10/16/24 14:25	Confirm	Kareem	OK
43	P4364-14MS	SB-06-0.167-0.667MS	MS	10/16/24 14:29	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
44	P4364-14MSD	SB-06-0.167-0.667MS	MSD	10/16/24 14:33	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
45	P4364-14A	SB-06-0.167-0.667A	PS	10/16/24 14:38	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
46	PB164069BL	PB164069BL	MB	10/16/24 14:42		Kareem	OK
47	PB164069BS	PB164069BS	LCS	10/16/24 14:47	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
48	P4395-02	F05308-SOLID	SAM	10/16/24 14:51		Kareem	OK
49	CCV04	CCV04	CCV	10/16/24 14:55		Kareem	OK
50	CCB04	CCB04	CCB	10/16/24 14:59		Kareem	OK
51	P4403-02DUP	Hawthorne TP SoilDU	DUP	10/16/24 15:04		Kareem	OK

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Supervise By	jaswal	Supervise On	10/26/2024 8:08:56 AM

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

52	P4403-02L	Hawthorne TP SoilL	SD	10/16/24 15:08		Kareem	OK
53	P4403-02MS	Hawthorne TP SoilMS	MS	10/16/24 15:12	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
54	P4403-02MSD	Hawthorne TP SoilMS	MSD	10/16/24 15:17	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
55	P4403-02A	Hawthorne TP SoilA	PS	10/16/24 15:21	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
56	PB164121BL	PB164121BL	MB	10/16/24 15:29		Kareem	OK
57	PB164121BS	PB164121BS	LCS	10/16/24 15:34	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
58	P4406-01	OK-02-101524	SAM	10/16/24 15:38		Kareem	OK
59	P4406-01DUP	OK-02-101524DUP	DUP	10/16/24 15:42		Kareem	OK
60	CCV05	CCV05	CCV	10/16/24 15:46		Kareem	OK
61	CCB05	CCB05	CCB	10/16/24 15:50		Kareem	OK
62	P4397-01DL	WB-301-TOPDL	SAM	10/16/24 15:55	5x for Cr	Kareem	Confirms
63	P4406-01L	OK-02-101524L	SD	10/16/24 15:59		Kareem	OK
64	P4406-01MS	OK-02-101524MS	MS	10/16/24 16:03	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
65	P4406-01MSD	OK-02-101524MSD	MSD	10/16/24 16:07	0.1ml of m6010 and m6001 were added to 10 ml of the sample	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

66	P4406-01A	OK-02-101524A	PS	10/16/24 16:11	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
67	P4410-01	TR-04-101524	SAM	10/16/24 16:15		Kareem	OK
68	PB164173BL	PB164173BL	MB	10/16/24 16:19		Kareem	OK
69	PB164173BS	PB164173BS	LCS	10/16/24 16:23	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	OK
70	PB164096TB	PB164096TB	MB	10/16/24 16:27		Kareem	OK
71	CCV06	CCV06	CCV	10/16/24 16:39		Kareem	OK
72	CCB06	CCB06	CCB	10/16/24 16:43		Kareem	OK
73	P4407-01	MR-CAM-06	SAM	10/16/24 17:17	Confirm Wt/final vol (50/50)	Kareem	OK
74	P4405-01	MH-121	SAM	10/16/24 17:21	Na (over saturated)	Kareem	Dilution
75	P4397-04	WB-301-SW	SAM	10/16/24 17:26	Na (over saturated), MS/MSD fail for many aparameters	Kareem	Not Ok
76	P4397-04DUP	WB-301-SWDUP	DUP	10/16/24 17:30	Na high, MS/MSD fail for many aparameters	Kareem	Not Ok
77	P4397-04L	WB-301-SWL	SD	10/16/24 17:35	MS/MSD fail for many aparameters	Kareem	Not Ok
78	P4397-04MS	WB-301-SWMS	MS	10/16/24 17:39	Na high, MS/MSD fail for many aparameters	Kareem	Not Ok
79	P4397-04MSD	WB-301-SWMSD	MSD	10/16/24 17:44	Na high, MS/MSD fail for many aparameters	Kareem	Not Ok
80	P4397-04A	WB-301-SWA	PS	10/16/24 17:48	0.1ml of m6010 and m6001 were added to 10 ml of the sample	Kareem	Not Ok
81	PB164174BL	PB164174BL	MB	10/16/24 18:00	NOT USE	Kareem	Not Ok

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Supervise By	jaswal	Supervise On	10/26/2024 8:08:56 AM

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

82	CCV07	CCV07	CCV	10/16/24 18:11		Kareem	OK
83	CCB07	CCB07	CCB	10/16/24 18:16		Kareem	OK
84	P4385-20	SP-10	SAM	10/16/24 18:20	NOT USE	Kareem	Not Ok
85	P4385-20DUP	SP-10DUP	DUP	10/16/24 18:25	NOT USE	Kareem	Not Ok
86	P4385-20L	SP-10L	SD	10/16/24 18:29	NOT USE	Kareem	Not Ok
87	P4385-20MS	SP-10MS	MS	10/16/24 18:33	NOT USE	Kareem	Not Ok
88	P4385-20MSD	SP-10MSD	MSD	10/16/24 18:38	NOT USE	Kareem	Not Ok
89	P4385-20A	SP-10A	PS	10/16/24 18:42	NOT USE	Kareem	Not Ok
90	CCV08	CCV08	CCV	10/16/24 18:46		Kareem	OK
91	CCB08	CCB08	CCB	10/16/24 18:50		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133086

Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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	10/23/24 14:24		Kareem	OK
2	S1	S1	CAL2	10/23/24 14:28		Kareem	OK
3	S2	S2	CAL3	10/23/24 14:32		Kareem	OK
4	S3	S3	CAL4	10/23/24 14:37		Kareem	OK
5	S4	S4	CAL5	10/23/24 14:41		Kareem	OK
6	S5	S5	CAL6	10/23/24 14:45		Kareem	OK
7	ICV01	ICV01	ICV	10/23/24 14:59		Kareem	OK
8	LLICV01	LLICV01	LLICV	10/23/24 15:11		Kareem	OK
9	ICB01	ICB01	ICB	10/23/24 15:16		Kareem	OK
10	CRI01	CRI01	CRDL	10/23/24 15:22		Kareem	OK
11	ICSA01	ICSA01	ICSA	10/23/24 15:26		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	10/23/24 15:32		Kareem	OK
13	ICSADL	ICSADL	ICSA	10/23/24 15:36		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	10/23/24 15:40		Kareem	OK
15	CCV01	CCV01	CCV	10/23/24 15:57		Kareem	OK
16	CCB01	CCB01	CCB	10/23/24 16:02		Kareem	OK
17	P4458-02	280517	SAM	10/23/24 16:06		Kareem	OK
18	P4458-01	280517	SAM	10/23/24 16:10		Kareem	OK

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Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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	P4443-05	OG-315-HR-502-COM	SAM	10/23/24 16:15		Kareem	OK
20	P4443-10	OG-315-HR-502-COM	SAM	10/23/24 16:19		Kareem	OK
21	P4443-01	OG-315-HR-502-COM	SAM	10/23/24 16:23		Kareem	OK
22	P4443-06	OG-315-HR-502-COM	SAM	10/23/24 16:28		Kareem	OK
23	P4452-01	ETGI-285	SAM	10/23/24 16:32	Ca,Cr high	Kareem	Dilution
24	P4452-01DL	ETGI-285DL	SAM	10/23/24 16:44	5x for Ca,Cr	Kareem	Confirms
25	CCV02	CCV02	CCV	10/23/24 16:48		Kareem	OK
26	CCB02	CCB02	CCB	10/23/24 16:52		Kareem	OK
27	P4397-06	WB-301-BOT	SAM	10/23/24 16:59		Kareem	OK
28	P4460-04	WB-303-BOT	SAM	10/23/24 17:03		Kareem	OK
29	P4460-04DUP	WB-303-BOTDUP	DUP	10/23/24 17:08		Kareem	OK
30	P4460-04L	WB-303-BOTL	SD	10/23/24 17:12		Kareem	OK
31	P4460-04MS	WB-303-BOTMS	MS	10/23/24 17:17	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
32	P4460-04MSD	WB-303-BOTMSD	MSD	10/23/24 17:21	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
33	P4460-04A	WB-303-BOTA	PS	10/23/24 17:25	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
34	PB164261TB	PB164261TB	MB	10/23/24 17:29		Kareem	OK
35	PB164298BL	PB164298BL	MB	10/23/24 17:34		Kareem	OK

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Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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

36	PB164298BS	PB164298BS	LCS	10/23/24 17:38	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
37	CCV03	CCV03	CCV	10/23/24 17:42		Kareem	OK
38	CCB03	CCB03	CCB	10/23/24 17:46		Kareem	OK
39	P4456-01	PAD-10182024	SAM	10/23/24 17:51		Kareem	OK
40	P4460-02	WB-303-TOP	SAM	10/23/24 17:55		Kareem	OK
41	P4460-03	WB-303-BOT	SAM	10/23/24 17:59	MS-MSD Fail for more than 50% parameter	Kareem	OK
42	P4460-03DUP	WB-303-BOTDUP	DUP	10/23/24 18:04	MS-MSD Fail for more than 50% parameter	Kareem	OK
43	P4460-03L	WB-303-BOTL	SD	10/23/24 18:08	MS-MSD Fail for more than 50% parameter	Kareem	OK
44	P4460-03MS	WB-303-BOTMS	MS	10/23/24 18:12	MS-MSD Fail for more than 50% parameter	Kareem	OK
45	P4460-03MSD	WB-303-BOTMSD	MSD	10/23/24 18:16	MS-MSD Fail for more than 50% parameter	Kareem	OK
46	P4460-03A	WB-303-BOTA	PS	10/23/24 18:20	MS-MSD Fail for more than 50% parameter	Kareem	OK
47	PB164289BL	PB164289BL	MB	10/23/24 18:24	Fail for Al	Kareem	Not Ok
48	PB164289BS	PB164289BS	LCS	10/23/24 18:28	Fail for Al,Sb,As,Ba,Be,Cd,Pb,Mg, Mn,Se,Tl,V	Kareem	Not Ok
49	CCV04	CCV04	CCV	10/23/24 18:32		Kareem	OK
50	CCB04	CCB04	CCB	10/23/24 18:36		Kareem	OK
51	PB164244BL	PB164244BL	MB	10/23/24 18:41		Kareem	OK

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Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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

52	PB164244BS	PB164244BS	LCS	10/23/24 18:45	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
53	PB164195TB	PB164195TB	MB	10/23/24 18:49		Kareem	OK
54	PB164197TB	PB164197TB	MB	10/23/24 18:54		Kareem	OK
55	PB164248BL	PB164248BL	MB	10/23/24 18:58		Kareem	OK
56	PB164248BS	PB164248BS	LCS	10/23/24 19:03	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
57	PB164174BL	PB164174BL	MB	10/23/24 19:07		Kareem	OK
58	PB164174BS	PB164174BS	LCS	10/23/24 19:11	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
59	PB164221BL	PB164221BL	MB	10/23/24 19:15		Kareem	OK
60	PB164221BS	PB164221BS	LCS	10/23/24 19:19	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
61	CCV05	CCV05	CCV	10/23/24 19:23		Kareem	OK
62	CCB05	CCB05	CCB	10/23/24 19:28		Kareem	OK
63	PB164222BL	PB164222BL	MB	10/23/24 19:32		Kareem	OK
64	PB164222BS	PB164222BS	LCS	10/23/24 19:36	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
65	PB164220BL	PB164220BL	MB	10/23/24 19:40		Kareem	OK
66	PB164220BS	PB164220BS	LCS	10/23/24 19:45	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB133086

Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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

67	P4424-01	1-N-1	SAM	10/23/24 19:49		Kareem	OK
68	P4424-01DUP	1-N-1DUP	DUP	10/23/24 19:53		Kareem	OK
69	P4424-01L	1-N-1L	SD	10/23/24 19:58		Kareem	OK
70	P4424-01MS	1-N-1MS	MS	10/23/24 20:02	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
71	P4424-01MSD	1-N-1MSD	MSD	10/23/24 20:06	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
72	P4424-01A	1-N-1A	PS	10/23/24 20:11	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
73	CCV06	CCV06	CCV	10/23/24 20:15		Kareem	OK
74	CCB06	CCB06	CCB	10/23/24 20:21		Kareem	OK
75	P4424-02	1-S-1	SAM	10/23/24 20:25		Kareem	OK
76	P4424-03	1-B-1	SAM	10/23/24 20:30		Kareem	OK
77	P4397-04DL	WB-301-SWDL	SAM	10/23/24 20:47	Not Use	Kareem	Not Ok
78	P4397-04DUPDL	WB-301-SWDUPDL	DUP	10/23/24 20:51	Not Use	Kareem	Not Ok
79	P4397-04LDL	WB-301-SWLDL	SD	10/23/24 20:56	Not Use	Kareem	Not Ok
80	P4397-04MSDL	WB-301-SWMSDL	MS	10/23/24 21:00	Not Use	Kareem	Not Ok
81	P4397-04MSDDL	WB-301-SWMSDDL	MSD	10/23/24 21:05	Not Use	Kareem	Not Ok
82	LR1	LR1	HIGH STD	10/23/24 21:11		Kareem	OK
83	LR2	LR2	HIGH STD	10/23/24 21:16		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 # LB133086

Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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	CCV07	CCV07	CCV	10/23/24 21:28		Kareem	OK
85	CCB07	CCB07	CCB	10/23/24 21:34		Kareem	OK
86	P4397-04ADL	WB-301-SWADL	PS	10/23/24 21:39	Not Use	Kareem	Not Ok
87	P4347-01	EFFLUENT-DAY-1-MI	SAM	10/23/24 21:43		Kareem	OK
88	P4347-01DUP	EFFLUENT-DAY-1-MI	DUP	10/23/24 21:47		Kareem	OK
89	P4347-01L	EFFLUENT-DAY-1-MI	SD	10/23/24 21:52		Kareem	OK
90	P4347-01MS	EFFLUENT-DAY-1-MI	MS	10/23/24 21:56	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
91	P4347-01MSD	EFFLUENT-DAY-1-MI	MSD	10/23/24 22:04	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
92	P4347-01A	EFFLUENT-DAY-1-MI	PS	10/23/24 22:08	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
93	PB164302BL	PB164302BL	MB	10/23/24 22:12		Kareem	OK
94	PB164302BS	PB164302BS	LCS	10/23/24 22:16	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
95	CCV08	CCV08	CCV	10/23/24 22:20		Kareem	OK
96	CCB08	CCB08	CCB	10/23/24 22:25		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	mohan	Supervise On	11/6/2024 3:15:41 AM

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	11/04/24 16:57		Kareem	OK
2	S1	S1	CAL2	11/04/24 17:02		Kareem	OK
3	S2	S2	CAL3	11/04/24 17:06		Kareem	OK
4	S3	S3	CAL4	11/04/24 17:10		Kareem	OK
5	S4	S4	CAL5	11/04/24 17:14		Kareem	OK
6	S5	S5	CAL6	11/04/24 17:18		Kareem	OK
7	ICV01	ICV01	ICV	11/04/24 17:28		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/04/24 17:37		Kareem	OK
9	ICB01	ICB01	ICB	11/04/24 17:47		Kareem	OK
10	CRI01	CRI01	CRDL	11/04/24 17:52		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/04/24 18:03		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/04/24 18:07		Kareem	OK
13	CCV01	CCV01	CCV	11/04/24 18:11		Kareem	OK
14	CCB01	CCB01	CCB	11/04/24 18:16		Kareem	OK
15	P4640-01	MH-3	SAM	11/04/24 18:20		Kareem	OK
16	P4643-01	BP-F9-ADDITIONAL	SAM	11/04/24 18:25		Kareem	OK
17	P4643-05	BP-F8	SAM	11/04/24 18:29		Kareem	OK
18	P4643-09	TP-9	SAM	11/04/24 18:33		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	mohan	Supervise On	11/6/2024 3:15:41 AM

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	P4645-01	Z-02-WC	SAM	11/04/24 18:37		Kareem	OK
20	P4645-01DUP	Z-02-WCDUP	DUP	11/04/24 18:42		Kareem	OK
21	P4645-01L	Z-02-WCL	SD	11/04/24 18:46		Kareem	OK
22	P4645-01MS	Z-02-WCMS	MS	11/04/24 18:50	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
23	P4645-01MSD	Z-02-WCMSD	MSD	11/04/24 18:54	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
24	P4645-01A	Z-02-WCA	PS	11/04/24 18:58	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
25	CCV02	CCV02	CCV	11/04/24 19:02		Kareem	OK
26	CCB02	CCB02	CCB	11/04/24 19:07		Kareem	OK
27	PB164563BL	PB164563BL	MB	11/04/24 19:11	LCS fail Na	Kareem	Not Ok
28	PB164563BS	PB164563BS	LCS	11/04/24 19:15	Fail for Na	Kareem	Not Ok
29	P4615-03	B-131-3-SB01	SAM	11/04/24 19:19		Kareem	OK
30	P4615-02	B-131-2-SB01	SAM	11/04/24 19:23		Kareem	OK
31	P4397-04	WB-301-SW	SAM	11/04/24 19:28	Na high	Kareem	Dilution
32	P4397-04DUP	WB-301-SWDUP	DUP	11/04/24 19:32	Na high	Kareem	Dilution
33	P4397-04L	WB-301-SWL	SD	11/04/24 19:37	Na high	Kareem	Dilution
34	P4397-04MS	WB-301-SWMS	MS	11/04/24 19:41	Na high	Kareem	Dilution
35	CCV03	CCV03	CCV	11/04/24 19:46		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	mohan	Supervise On	11/6/2024 3:15:41 AM

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

36	CCB03	CCB03	CCB	11/04/24 19:58		Kareem	OK
37	P4397-04MSD	WB-301-SWMSD	MSD	11/04/24 20:04	Na high	Kareem	Dilution
38	P4397-04A	WB-301-SWA	PS	11/04/24 20:08	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
39	P4663-02	TENNANT-PAD-2-3-S	SAM	11/04/24 20:12		Kareem	OK
40	P4663-04	RES-BUILDING-PAD-	SAM	11/04/24 20:17		Kareem	OK
41	P4663-06	RES-BUILDING-PAD-	SAM	11/04/24 20:21		Kareem	OK
42	P4663-08	RES-BUILDING-PAD-	SAM	11/04/24 20:25		Kareem	OK
43	LR1	LR1	HIGH STD	11/04/24 20:33		Kareem	OK
44	LR2	LR2	HIGH STD	11/04/24 20:38		Kareem	OK
45	PB164522TB	PB164522TB	MB	11/04/24 20:44		Kareem	OK
46	PB164564BL	PB164564BL	MB	11/04/24 20:48		Kareem	OK
47	CCV04	CCV04	CCV	11/04/24 21:07		Kareem	OK
48	CCB04	CCB04	CCB	11/04/24 21:11		Kareem	OK
49	PB164564BS	PB164564BS	LCS	11/04/24 21:16	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
50	P4397-04DL	WB-301-SWDL	SAM	11/04/24 21:21	10X for Na	Kareem	Confirms
51	P4397-04DUPDL	WB-301-SWDUPDL	DUP	11/04/24 21:25	10X for Na	Kareem	Confirms
52	P4397-04LDL	WB-301-SWLDL	SD	11/04/24 21:29	10X for Na	Kareem	Confirms
53	P4397-04MSDL	WB-301-SWMSDL	MS	11/04/24 21:34	10X for Na	Kareem	Confirms

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	mohan	Supervise On	11/6/2024 3:15:41 AM

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

54	P4397-04MSDDL	WB-301-SWMSDDL	MSD	11/04/24 21:38	10X for Na	Kareem	Confirms
55	P4397-04ADL	WB-301-SWADL	PS	11/04/24 21:42	Not used	Kareem	Not Ok
56	CCV05	CCV05	CCV	11/04/24 21:47		Kareem	OK
57	CCB05	CCB05	CCB	11/04/24 21:51		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164156

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 #2 2. N/A

Start Digest Date: 10/15/2024 **Time :** 10:00 **Temp :** 95 °C

End Digest Date: 10/15/2024 **Time :** 12:30 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: jgp

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	M6083
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 # 2 Cell # 30 Temp: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/15/24 12:45	jgp (Met dig)	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164156

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4397-01	WB-301-TOP	N/A	2.17	100	Brown	Yellow	Medium	N/A	N/A	1
P4397-02	WB-301-BOT	N/A	2.15	100	Brown	Yellow	Medium	N/A	N/A	2
P4400-01	NB-08-101424	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	3
P4400-01DUP	NB-08-101424DUP	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	4
P4400-01MS	NB-08-101424MS	N/A	2.47	100	Brown	Yellow	Medium	N/A	M6000,M6009	5
P4400-01MSD	NB-08-101424MSD	N/A	2.26	100	Brown	Yellow	Medium	N/A	M6000,M6009	6
P4401-01	SU-03-101424	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	7
P4403-01	HAWTHORNE TP SOIL	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	8
PB164156BL	PBS156	N/A	2.09	100	Colorless	Colorless	Fine	N/A	N/A	9
PB164156BS	LCS156	N/A	2.09	100	Colorless	Colorless	Fine	N/A	M6000, M6009	10

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164160

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: 10/15/2024 **Time :** 14:20 **Temp :** 94 °C

End Digest Date: 10/15/2024 **Time :** 16:20 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: M

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP82790
CCV	30mL	MP82792
CRA	30mL	MP82794
Blank Spike	0.48mL	MP82783
Matrix Spike	0.48mL	MP82783

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP82651
KMnO4 (5%)	4.5mL	MP82652
KMnO4 (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	MP82784
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP82785
2.5 ppb	S2.5	30mL	MP82786
5.0 ppb	S5.0	30mL	MP82787
7.5 ppb	S7.5	30mL	MP82788
10.0 ppb	S10.0	30mL	MP82789
ICV	ICV	30mL	MP82790
ICB	ICB	30mL	MP82791
CCV	CCV	30mL	MP82792
CCB	CCB	30mL	MP82793
CRI	CRI	30mL	MP82794
CHK STD	CHK STD	30mL	MP82795

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/15/24 @ 17:14	MB- HG. Lab	MB - Metal Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164160

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4354-01	291551	30	30	<2	N/A	3-21
P4354-01DUP	291551DUP	30	30	<2	N/A	22
P4354-01MS	291551MS	30	30	<2	MP82783	23
P4354-01MSD	291551MSD	30	30	<2	MP82783	24
P4370-02	COMP	30	30	<2	N/A	25
P4382-01	DECON-DRUM	30	30	<2	N/A	26
P4396-01	WASTE-WATER-FRAC-TANK	30	30	<2	N/A	27
P4397-04	WB-301-SW	30	30	<2	N/A	28
PB164160BL	PBW160	30	30	<2	N/A	29
PB164160BS	LCS160	30	30	<2	MP82783	30

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164174

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: 10/16/2024 **Time :** 08:50 **Temp :** 96 °C

End Digest Date: 10/16/2024 **Time :** 12:00 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JgP

Supervisor Signature:

Temp : 1. 96°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	M6088
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 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/16/24 12:30	JgP/Met dig.	Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164174

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4397-04MS	WB-301-SWMS	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	3
P4397-04MSD	WB-301-SWMSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	4
P4397-04DUP	WB-301-SWDUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	2
P4397-04	WB-301-SW	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
P4405-01	MH-121	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	5
P4407-01	MR-CAM-06	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	6
PB164174BL	PBW174	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	7
PB164174BS	LCS174	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	8

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164194

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: 10/15/2024 **Time :** 15:15 **Temp :** 95 °C

End Digest Date: 10/15/2024 **Time :** 15:46 **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	MP82790
CCV	30mL	MP82792
CRA	30mL	MP82794
Blank Spike	0.48mL	MP82783
Matrix Spike	0.48mL	MP82783

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP82796
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	MP82784
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP82785
2.5 ppb	S2.5	30mL	MP82786
5.0 ppb	S5.0	30mL	MP82787
7.5 ppb	S7.5	30mL	MP82788
10.0 ppb	S10.0	30mL	MP82789
ICV	ICV	30mL	MP82790
ICB	ICB	30mL	MP82791
CCV	CCV	30mL	MP82792
CCB	CCB	30mL	MP82793
CRI	CRI	30mL	MP82794
CHK STD	CHK STD	30mL	MP82795

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/15/24 @ 16:20	MB · HG · Lab	MB · Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164194

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
P4397-01	WB-301-TOP	0.60	35	NA	N/A	3-1
P4397-02	WB-301-BOT	0.53	35	NA	N/A	2
P4400-01	NB-08-101424	0.55	35	NA	N/A	3
P4401-01	SU-03-101424	0.57	35	NA	N/A	4
P4403-01	HAWTHORNE TP SOIL	0.56	35	NA	N/A	5
P4406-01	OK-02-101524	0.56	35	NA	N/A	6
P4410-01	TR-04-101524	0.55	35	NA	N/A	7
P4410-01DUP	TR-04-101524DUP	0.54	35	NA	N/A	8
P4410-01MS	TR-04-101524MS	0.56	35	NA	MP82783	9
P4410-01MSD	TR-04-101524MSD	0.57	35	NA	MP82783	10
PB164194BL	PBS194	0.52	35	NA	N/A	11
PB164194BS	LCS194	0.54	35	NA	MP82783	12

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Hit Summary Sheet
SW-846

SDG No.: P4397 **Order ID:** P4397

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-301-BOT								
P4397-06	WB-301-BOT	TCLP	Arsenic	275		34.8	100	ug/L
P4397-06	WB-301-BOT	TCLP	Barium	335	J	62.8	500	ug/L
P4397-06	WB-301-BOT	TCLP	Cadmium	1.32	J	0.94	30.0	ug/L
P4397-06	WB-301-BOT	TCLP	Chromium	491		6.60	50.0	ug/L
P4397-06	WB-301-BOT	TCLP	Lead	43.0	J	35.1	60.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-06	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	275		1	34.8	100	ug/L	10/21/24 11:45	10/23/24 16:59	SW6010	SW3050
7440-39-3	Barium	335	J	1	62.8	500	ug/L	10/21/24 11:45	10/23/24 16:59	SW6010	SW3050
7440-43-9	Cadmium	1.32	J	1	0.94	30.0	ug/L	10/21/24 11:45	10/23/24 16:59	SW6010	SW3050
7440-47-3	Chromium	491		1	6.60	50.0	ug/L	10/21/24 11:45	10/23/24 16:59	SW6010	SW3050
7439-92-1	Lead	43.0	J	1	35.1	60.0	ug/L	10/21/24 11:45	10/23/24 16:59	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	10/22/24 11:50	10/23/24 10:10	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	10/21/24 11:45	10/23/24 16:59	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	10/21/24 11:45	10/23/24 16:59	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.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB48	Mercury	0.20	+/-0.20	U	0.20	CV	10/23/2024	09:46	LB133065

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB56	Mercury	0.20	+/-0.20	U	0.20	CV	10/23/2024	09:51	LB133065
CCB57	Mercury	0.20	+/-0.20	U	0.20	CV	10/23/2024	10:24	LB133065
CCB58	Mercury	0.20	+/-0.20	U	0.20	CV	10/23/2024	10:51	LB133065
CCB59	Mercury	0.20	+/-0.20	U	0.20	CV	10/23/2024	11:18	LB133065

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/23/2024	15:16	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	15:16	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	15:16	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	15:16	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	15:16	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	15:16	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	15:16	LB133086

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/23/2024	16:02	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	16:02	LB133086
	Cadmium	1.78	+/-6.00	J	6.00	P	10/23/2024	16:02	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	16:02	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	16:02	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	16:02	LB133086
	Silver	1.20	+/-10.0	J	10.0	P	10/23/2024	16:02	LB133086
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	16:52	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	16:52	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	16:52	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	16:52	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	16:52	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	16:52	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	16:52	LB133086
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	17:46	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	17:46	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	17:46	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	17:46	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	17:46	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	17:46	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	17:46	LB133086
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	18:36	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	18:36	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	18:36	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	18:36	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	18:36	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	18:36	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	18:36	LB133086
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	19:28	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	19:28	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	19:28	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	19:28	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	19:28	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	19:28	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	19:28	LB133086
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	20:21	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	20:21	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	20:21	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	20:21	LB133086

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/23/2024	20:21	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	20:21	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	20:21	LB133086
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	21:34	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	21:34	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	21:34	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	21:34	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	21:34	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	21:34	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	21:34	LB133086
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	10/23/2024	22:25	LB133086
	Barium	100	+/-100	U	100	P	10/23/2024	22:25	LB133086
	Cadmium	6.00	+/-6.00	U	6.00	P	10/23/2024	22:25	LB133086
	Chromium	10.0	+/-10.0	U	10.0	P	10/23/2024	22:25	LB133086
	Lead	12.0	+/-12.0	U	12.0	P	10/23/2024	22:25	LB133086
	Selenium	20.0	+/-20.0	U	20.0	P	10/23/2024	22:25	LB133086
	Silver	10.0	+/-10.0	U	10.0	P	10/23/2024	22:25	LB133086

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164261TB		**WATER**		**Batch Number:**	**PB164306**		**Prep Date:**	**10/22/2024**	
	Mercury	2.00	<2.00	U	2.00	CV	10/23/2024	11:02	LB133065
PB164306BL		**WATER**		**Batch Number:**	**PB164306**		**Prep Date:**	**10/22/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	10/23/2024	10:06	LB133065

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164261TB		**WATER**		**Batch Number:**	**PB164298**		**Prep Date:**	**10/21/2024**	
	Arsenic	100	<100	U	100	P	10/23/2024	17:29	LB133086
	Barium	500	<500	U	500	P	10/23/2024	17:29	LB133086
	Cadmium	30.0	<30.0	U	30.0	P	10/23/2024	17:29	LB133086
	Chromium	8.79	<50.0	J	50.0	P	10/23/2024	17:29	LB133086
	Lead	60.0	<60.0	U	60.0	P	10/23/2024	17:29	LB133086
	Selenium	100	<100	U	100	P	10/23/2024	17:29	LB133086
	Silver	50.0	<50.0	U	50.0	P	10/23/2024	17:29	LB133086

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164298BL		**WATER**		**Batch Number:**	**PB164298**		**Prep Date:**	**10/21/2024**	
	Arsenic	100	<100	U	100	P	10/23/2024	17:34	LB133086
	Barium	500	<500	U	500	P	10/23/2024	17:34	LB133086
	Cadmium	30.0	<30.0	U	30.0	P	10/23/2024	17:34	LB133086
	Chromium	50.0	<50.0	U	50.0	P	10/23/2024	17:34	LB133086
	Lead	60.0	<60.0	U	60.0	P	10/23/2024	17:34	LB133086
	Selenium	100	<100	U	100	P	10/23/2024	17:34	LB133086
	Silver	50.0	<50.0	U	50.0	P	10/23/2024	17:34	LB133086

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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
ICV48	Mercury	3.96	4.0	99	90 - 110	CV	10/23/2024	09:44	LB133065

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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
CCV56	Mercury	5.02	5.0	100	90 - 110	CV	10/23/2024	09:48	LB133065
CCV57	Mercury	5.31	5.0	106	90 - 110	CV	10/23/2024	10:22	LB133065
CCV58	Mercury	5.43	5.0	109	90 - 110	CV	10/23/2024	10:49	LB133065
CCV59	Mercury	5.31	5.0	106	90 - 110	CV	10/23/2024	11:16	LB133065

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	998	1000	100	90 - 110	P	10/23/2024	14:59	LB133086
	Barium	501	520	96	90 - 110	P	10/23/2024	14:59	LB133086
	Cadmium	506	510	99	90 - 110	P	10/23/2024	14:59	LB133086
	Chromium	538	520	103	90 - 110	P	10/23/2024	14:59	LB133086
	Lead	1010	1000	101	90 - 110	P	10/23/2024	14:59	LB133086
	Selenium	1020	1000	102	90 - 110	P	10/23/2024	14:59	LB133086
	Silver	256	250	102	90 - 110	P	10/23/2024	14:59	LB133086

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	10/23/2024	15:11	LB133086
	Barium	93.0	100	93	80 - 120	P	10/23/2024	15:11	LB133086
	Cadmium	5.79	6.0	96	80 - 120	P	10/23/2024	15:11	LB133086
	Chromium	10.1	10.0	101	80 - 120	P	10/23/2024	15:11	LB133086
	Lead	11.9	12.0	99	80 - 120	P	10/23/2024	15:11	LB133086
	Selenium	20.9	20.0	105	80 - 120	P	10/23/2024	15:11	LB133086
	Silver	10.3	10.0	103	80 - 120	P	10/23/2024	15:11	LB133086

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	5090	5000	102	90 - 110	P	10/23/2024	15:57	LB133086
	Barium	9630	10000	96	90 - 110	P	10/23/2024	15:57	LB133086
	Cadmium	2520	2500	101	90 - 110	P	10/23/2024	15:57	LB133086
	Chromium	1010	1000	101	90 - 110	P	10/23/2024	15:57	LB133086
	Lead	5020	5000	100	90 - 110	P	10/23/2024	15:57	LB133086
	Selenium	5060	5000	101	90 - 110	P	10/23/2024	15:57	LB133086
	Silver	1250	1250	100	90 - 110	P	10/23/2024	15:57	LB133086
CCV02	Arsenic	4840	5000	97	90 - 110	P	10/23/2024	16:48	LB133086
	Barium	9150	10000	92	90 - 110	P	10/23/2024	16:48	LB133086
	Cadmium	2410	2500	96	90 - 110	P	10/23/2024	16:48	LB133086
	Chromium	969	1000	97	90 - 110	P	10/23/2024	16:48	LB133086
	Lead	4810	5000	96	90 - 110	P	10/23/2024	16:48	LB133086
	Selenium	4860	5000	97	90 - 110	P	10/23/2024	16:48	LB133086
	Silver	1200	1250	96	90 - 110	P	10/23/2024	16:48	LB133086
CCV03	Arsenic	4880	5000	98	90 - 110	P	10/23/2024	17:42	LB133086
	Barium	9030	10000	90	90 - 110	P	10/23/2024	17:42	LB133086
	Cadmium	2440	2500	97	90 - 110	P	10/23/2024	17:42	LB133086
	Chromium	992	1000	99	90 - 110	P	10/23/2024	17:42	LB133086
	Lead	4850	5000	97	90 - 110	P	10/23/2024	17:42	LB133086
	Selenium	4880	5000	98	90 - 110	P	10/23/2024	17:42	LB133086
	Silver	1230	1250	98	90 - 110	P	10/23/2024	17:42	LB133086
CCV04	Arsenic	5070	5000	101	90 - 110	P	10/23/2024	18:32	LB133086
	Barium	9310	10000	93	90 - 110	P	10/23/2024	18:32	LB133086
	Cadmium	2540	2500	102	90 - 110	P	10/23/2024	18:32	LB133086
	Chromium	1020	1000	102	90 - 110	P	10/23/2024	18:32	LB133086
	Lead	5080	5000	102	90 - 110	P	10/23/2024	18:32	LB133086
	Selenium	5090	5000	102	90 - 110	P	10/23/2024	18:32	LB133086
	Silver	1250	1250	100	90 - 110	P	10/23/2024	18:32	LB133086
CCV05	Arsenic	4920	5000	98	90 - 110	P	10/23/2024	19:23	LB133086
	Barium	9250	10000	92	90 - 110	P	10/23/2024	19:23	LB133086
	Cadmium	2460	2500	99	90 - 110	P	10/23/2024	19:23	LB133086
	Chromium	984	1000	98	90 - 110	P	10/23/2024	19:23	LB133086
	Lead	4910	5000	98	90 - 110	P	10/23/2024	19:23	LB133086
	Selenium	4910	5000	98	90 - 110	P	10/23/2024	19:23	LB133086

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	1210	1250	97	90 - 110	P	10/23/2024	19:23	LB133086
CCV06	Arsenic	4890	5000	98	90 - 110	P	10/23/2024	20:15	LB133086
	Barium	9330	10000	93	90 - 110	P	10/23/2024	20:15	LB133086
	Cadmium	2470	2500	99	90 - 110	P	10/23/2024	20:15	LB133086
	Chromium	989	1000	99	90 - 110	P	10/23/2024	20:15	LB133086
	Lead	4910	5000	98	90 - 110	P	10/23/2024	20:15	LB133086
	Selenium	4870	5000	97	90 - 110	P	10/23/2024	20:15	LB133086
	Silver	1220	1250	98	90 - 110	P	10/23/2024	20:15	LB133086
CCV07	Arsenic	4820	5000	96	90 - 110	P	10/23/2024	21:28	LB133086
	Barium	9500	10000	95	90 - 110	P	10/23/2024	21:28	LB133086
	Cadmium	2420	2500	97	90 - 110	P	10/23/2024	21:28	LB133086
	Chromium	952	1000	95	90 - 110	P	10/23/2024	21:28	LB133086
	Lead	4820	5000	96	90 - 110	P	10/23/2024	21:28	LB133086
	Selenium	4830	5000	97	90 - 110	P	10/23/2024	21:28	LB133086
	Silver	1170	1250	94	90 - 110	P	10/23/2024	21:28	LB133086
CCV08	Arsenic	4800	5000	96	90 - 110	P	10/23/2024	22:20	LB133086
	Barium	9320	10000	93	90 - 110	P	10/23/2024	22:20	LB133086
	Cadmium	2510	2500	100	90 - 110	P	10/23/2024	22:20	LB133086
	Chromium	1010	1000	101	90 - 110	P	10/23/2024	22:20	LB133086
	Lead	4980	5000	100	90 - 110	P	10/23/2024	22:20	LB133086
	Selenium	4770	5000	96	90 - 110	P	10/23/2024	22:20	LB133086
	Silver	1220	1250	97	90 - 110	P	10/23/2024	22:20	LB133086

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	0.22	0.2	109	40 - 160	CV	10/23/2024	09:53	LB133065
CRI01	Arsenic	19.7	20.0	99	40 - 160	P	10/23/2024	15:22	LB133086
	Barium	92.7	100	93	40 - 160	P	10/23/2024	15:22	LB133086
	Cadmium	5.38	6.0	90	40 - 160	P	10/23/2024	15:22	LB133086
	Chromium	10.0	10.0	100	40 - 160	P	10/23/2024	15:22	LB133086
	Lead	11.1	12.0	92	40 - 160	P	10/23/2024	15:22	LB133086
	Selenium	17.6	20.0	88	40 - 160	P	10/23/2024	15:22	LB133086
	Silver	10.1	10.0	101	40 - 160	P	10/23/2024	15:22	LB133086

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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	6.17			-20	20	10/23/2024	15:26	LB133086
	Barium	4.64	6.0	77	-94	106	10/23/2024	15:26	LB133086
	Cadmium	5.24	1.0	524	-5	7	10/23/2024	15:26	LB133086
	Chromium	58.7	52.0	113	42	62	10/23/2024	15:26	LB133086
	Lead	7.85			-12	12	10/23/2024	15:26	LB133086
	Selenium	-14.6			-20	20	10/23/2024	15:26	LB133086
	Silver	0.40			-10	10	10/23/2024	15:26	LB133086
ICSAB01	Arsenic	109	104	105	88.4	120	10/23/2024	15:32	LB133086
	Barium	477	537	89	437	637	10/23/2024	15:32	LB133086
	Cadmium	987	972	102	826	1120	10/23/2024	15:32	LB133086
	Chromium	574	542	106	460	624	10/23/2024	15:32	LB133086
	Lead	55.0	49.0	112	37	61	10/23/2024	15:32	LB133086
	Selenium	32.1	46.0	70	26	66	10/23/2024	15:32	LB133086
	Silver	206	201	102	170	232	10/23/2024	15:32	LB133086

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4397

contract: PORT06 **lab code:** CHEM **case no.:** P4397 **sas no.:** P4397

matrix: Water **sample id:** P4460-04 **client id:** WB-303-BOTMS

Percent Solids for Sample: NA **Spiked ID:** P4460-04MS **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	3750		100	U	4000	94		P
Barium	ug/L	75 - 125	1240		360	J	1000	88		P
Cadmium	ug/L	75 - 125	911		30.0	U	1000	91		P
Chromium	ug/L	75 - 125	2000		10.6	J	2000	99		P
Lead	ug/L	75 - 125	4340		45.4	J	5000	86		P
Mercury	ug/L	75 - 125	32.3		2.00	U	40.0	81		CV
Selenium	ug/L	75 - 125	9110		100	U	10000	91		P
Silver	ug/L	75 - 125	376		50.0	U	380	99		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4397

contract: PORT06 **lab code:** CHEM **case no.:** P4397 **sas no.:** P4397

matrix: Water **sample id:** P4460-04 **client id:** WB-303-BOTMSD

Percent Solids for Sample: NA **Spiked ID:** P4460-04MSD **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	3830		100	U	4000	96		P
Barium	ug/L	75 - 125	1260		360	J	1000	90		P
Cadmium	ug/L	75 - 125	927		30.0	U	1000	93		P
Chromium	ug/L	75 - 125	2030		10.6	J	2000	101		P
Lead	ug/L	75 - 125	4420		45.4	J	5000	88		P
Mercury	ug/L	75 - 125	38.3		2.00	U	40.0	96		CV
Selenium	ug/L	75 - 125	9330		100	U	10000	93		P
Silver	ug/L	75 - 125	379		50.0	U	380	100		P

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Metals
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Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Water **Sample ID:** P4460-04 **Client ID:** WB-303-BOTDUP

Percent Solids for Sample: NA **Duplicate ID** P4460-04DUP **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	360	J	357	J	1		P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	10.6	J	10.1	J	5		P
Lead	ug/L	20	45.4	J	49.1	J	8		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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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Matrix: Water **Sample ID:** P4460-04MS **Client ID:** WB-303-BOTMSD

Percent Solids for Sample: NA **Duplicate ID** P4460-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3750		3830		2		P
Barium	ug/L	20	1240		1260		2		P
Cadmium	ug/L	20	911		927		2		P
Chromium	ug/L	20	2000		2030		1		P
Lead	ug/L	20	4340		4420		2		P
Mercury	ug/L	20	32.3		38.3		17		CV
Selenium	ug/L	20	9110		9330		2		P
Silver	ug/L	20	376		379		1		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

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164298BS							
Arsenic	ug/L	4000	3630		91	80 - 120	P
Barium	ug/L	1000	924		92	80 - 120	P
Cadmium	ug/L	1000	885		88	80 - 120	P
Chromium	ug/L	2000	2070		104	80 - 120	P
Lead	ug/L	5000	4410		88	80 - 120	P
Selenium	ug/L	10000	8700		87	80 - 120	P
Silver	ug/L	380	360		95	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164306BS							
Mercury	ug/L	4.0	3.52		88	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

WB-303-BOTL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133086 **Lab Sample ID :** P4460-04L **SDG No.:** P4397

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	360	J	372	J	3		P
Cadmium	30.0	U	150	U			P
Chromium	10.6	J	250	U	100.0		P
Lead	45.4	J	300	U	100.0		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.:** P4397 **Sas no.:** P4397 **Sdg no.:** P4397

Instrument id number: **Method:** **Run number:** LB133065

Start date: 10/23/2024 **End date:** 10/23/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0926	HG
S0.2	S0.2	1	0929	HG
S2.5	S2.5	1	0931	HG
S5	S5	1	0933	HG
S7.5	S7.5	1	0935	HG
S10	S10	1	0940	HG
ICV48	ICV48	1	0944	HG
ICB48	ICB48	1	0946	HG
CCV56	CCV56	1	0948	HG
CCB56	CCB56	1	0951	HG
CRA	CRA	1	0953	HG
PB164306BL	PB164306BL	1	1006	HG
PB164306BS	PB164306BS	1	1008	HG
P4397-06	WB-301-BOT	1	1010	HG
CCV57	CCV57	1	1022	HG
CCB57	CCB57	1	1024	HG
P4460-04DUP	WB-303-BOTDUP	1	1026	HG
P4460-04MS	WB-303-BOTMS	1	1028	HG
P4460-04MSD	WB-303-BOTMSD	1	1031	HG
CCV58	CCV58	1	1049	HG
CCB58	CCB58	1	1051	HG
PB164261TB	PB164261TB	1	1102	HG
P4460-04L	WB-303-BOTL	5	1107	HG
CCV59	CCV59	1	1116	HG
CCB59	CCB59	1	1118	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4397 **Sas no.:** P4397 **Sdg no.:** P4397

Instrument id number: **Method:** **Run number:** LB133086

Start date: 10/23/2024 **End date:** 10/23/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1424	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1428	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1432	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1437	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1441	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1445	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1459	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1511	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1516	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1522	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1526	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1532	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1557	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1602	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1648	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1652	Ag,As,Ba,Cd,Cr,Pb,Se
P4397-06	WB-301-BOT	1	1659	Ag,As,Ba,Cd,Cr,Pb,Se
P4460-04DUP	WB-303-BOTDUP	1	1708	Ag,As,Ba,Cd,Cr,Pb,Se
P4460-04L	WB-303-BOTL	5	1712	Ag,As,Ba,Cd,Cr,Pb,Se
P4460-04MS	WB-303-BOTMS	1	1717	Ag,As,Ba,Cd,Cr,Pb,Se
P4460-04MSD	WB-303-BOTMSD	1	1721	Ag,As,Ba,Cd,Cr,Pb,Se
PB164261TB	PB164261TB	1	1729	Ag,As,Ba,Cd,Cr,Pb,Se
PB164298BL	PB164298BL	1	1734	Ag,As,Ba,Cd,Cr,Pb,Se
PB164298BS	PB164298BS	1	1738	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1742	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1746	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1832	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1836	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1923	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1928	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	2015	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	2021	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	2128	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	2134	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	2220	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	2225	Ag,As,Ba,Cd,Cr,Pb,Se

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4397 **SAS No.:** P4397

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

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LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-06	**WB-301-BOT**	**TCLP**			**10/10/24**			**10/11/24**
			TCLP ICP Metals	6010D		10/21/24	10/23/24	
			TCLP Mercury	7470A		10/22/24	10/23/24	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4397 **SAS No.:** P4397

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164298**						
P4397-06	WB-301-BOT	SAM	WATER	10/21/2024	5.0	25.0	
P4460-04DUP	WB-303-BOTDUP	DUP	WATER	10/21/2024	5.0	25.0	
P4460-04MS	WB-303-BOTMS	MS	WATER	10/21/2024	5.0	25.0	
P4460-04MSD	WB-303-BOTMSD	MSD	WATER	10/21/2024	5.0	25.0	
PB164261TB	PB164261TB	MB	WATER	10/21/2024	5.0	25.0	
PB164298BL	PB164298BL	MB	WATER	10/21/2024	5.0	25.0	
PB164298BS	PB164298BS	LCS	WATER	10/21/2024	5.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4397 **SAS No.:** P4397

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164306**						
P4397-06	WB-301-BOT	SAM	WATER	10/22/2024	3.0	30.0	
P4460-04DUP	WB-303-BOTDUP	DUP	WATER	10/22/2024	3.0	30.0	
P4460-04MS	WB-303-BOTMS	MS	WATER	10/22/2024	3.0	30.0	
P4460-04MSD	WB-303-BOTMSD	MSD	WATER	10/22/2024	3.0	30.0	
PB164261TB	PB164261TB	MB	WATER	10/22/2024	3.0	30.0	
PB164306BL	PB164306BL	MB	WATER	10/22/2024	30.0	30.0	
PB164306BS	PB164306BS	LCS	WATER	10/22/2024	30.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133065

Review By	jaswal	Review On	10/23/2024 11:18:30 PM
Supervise By	mohan	Supervise On	10/23/2024 11:33:40 PM

STD. NAME	STD REF.#
ICAL Standard	MP82866,MP82868,MP82869,MP82870,MP82871,MP82872
ICV Standard	MP82873
CCV Standard	MP82875
ICSA Standard	
CRI Standard	MP82877
LCS Standard	
Chk Standard	MP82874,MP82876,MP82883,MP82885

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/23/24 09:26		Mohan	OK
2	S0.2	S0.2	CAL2	10/23/24 09:29		Mohan	OK
3	S2.5	S2.5	CAL3	10/23/24 09:31		Mohan	OK
4	S5	S5	CAL4	10/23/24 09:33		Mohan	OK
5	S7.5	S7.5	CAL5	10/23/24 09:35		Mohan	OK
6	S10	S10	CAL6	10/23/24 09:40		Mohan	OK
7	ICV48	ICV48	ICV	10/23/24 09:44		Mohan	OK
8	ICB48	ICB48	ICB	10/23/24 09:46		Mohan	OK
9	CCV56	CCV56	CCV	10/23/24 09:48		Mohan	OK
10	CCB56	CCB56	CCB	10/23/24 09:51		Mohan	OK
11	CRA	CRA	CRDL	10/23/24 09:53		Mohan	OK
12	HighStd	HighStd	HIGH STD	10/23/24 09:55		Mohan	OK
13	ChkStd	ChkStd	SAM	10/23/24 10:03		Mohan	OK
14	PB164306BL	PB164306BL	MB	10/23/24 10:06		Mohan	OK
15	PB164306BS	PB164306BS	LCS	10/23/24 10:08		Mohan	OK
16	P4397-06	WB-301-BOT	SAM	10/23/24 10:10		Mohan	OK
17	P4443-05	OG-315-HR-502-COM	SAM	10/23/24 10:12		Mohan	OK
18	P4443-10	OG-315-HR-502-COM	SAM	10/23/24 10:15		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133065

Review By	jaswal	Review On	10/23/2024 11:18:30 PM
Supervise By	mohan	Supervise On	10/23/2024 11:33:40 PM

STD. NAME	STD REF.#
ICAL Standard	MP82866,MP82868,MP82869,MP82870,MP82871,MP82872
ICV Standard	MP82873
CCV Standard	MP82875
ICSA Standard	
CRI Standard	MP82877
LCS Standard	
Chk Standard	MP82874,MP82876,MP82883,MP82885

19	P4458-02	280517	SAM	10/23/24 10:17		Mohan	OK
20	P4460-04	WB-303-BOT	SAM	10/23/24 10:19		Mohan	OK
21	CCV57	CCV57	CCV	10/23/24 10:22		Mohan	OK
22	CCB57	CCB57	CCB	10/23/24 10:24		Mohan	OK
23	P4460-04DUP	WB-303-BOTDUP	DUP	10/23/24 10:26		Mohan	OK
24	P4460-04MS	WB-303-BOTMS	MS	10/23/24 10:28		Mohan	OK
25	P4460-04MSD	WB-303-BOTMSD	MSD	10/23/24 10:31		Mohan	OK
26	PB164321BL	PB164321BL	MB	10/23/24 10:33		Mohan	OK
27	PB164321BS	PB164321BS	LCS	10/23/24 10:35		Mohan	OK
28	P4467-04	TP-1	SAM	10/23/24 10:37		Mohan	OK
29	P4468-02	ETGI-331	SAM	10/23/24 10:40		Mohan	OK
30	P4468-04	ETGI-329	SAM	10/23/24 10:42		Mohan	OK
31	P4468-06	ETGI-345	SAM	10/23/24 10:44		Mohan	OK
32	P4472-04	BP-F-28	SAM	10/23/24 10:47		Mohan	OK
33	CCV58	CCV58	CCV	10/23/24 10:49		Mohan	OK
34	CCB58	CCB58	CCB	10/23/24 10:51		Mohan	OK
35	P4472-08	BP-F-6	SAM	10/23/24 10:53		Mohan	OK
36	P4472-08DUP	BP-F-6DUP	DUP	10/23/24 10:56		Mohan	OK
37	P4472-08MS	BP-F-6MS	MS	10/23/24 10:58		Mohan	OK
38	P4472-08MSD	BP-F-6MSD	MSD	10/23/24 11:00		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133065

Review By	jaswal	Review On	10/23/2024 11:18:30 PM
Supervise By	mohan	Supervise On	10/23/2024 11:33:40 PM

STD. NAME	STD REF.#
ICAL Standard	MP82866,MP82868,MP82869,MP82870,MP82871,MP82872
ICV Standard	MP82873
CCV Standard	MP82875
ICSA Standard	
CRI Standard	MP82877
LCS Standard	
Chk Standard	MP82874,MP82876,MP82883,MP82885

39	PB164261TB	PB164261TB	MB	10/23/24 11:02		Mohan	OK
40	PB164301TB	PB164301TB	MB	10/23/24 11:05		Mohan	OK
41	P4460-04L	WB-303-BOTL	SD	10/23/24 11:07		Mohan	OK
42	P4460-04A	WB-303-BOTA	PS	10/23/24 11:09		Mohan	OK
43	P4472-08L	BP-F-6L	SD	10/23/24 11:12		Mohan	OK
44	P4472-08A	BP-F-6A	PS	10/23/24 11:14		Mohan	OK
45	CCV59	CCV59	CCV	10/23/24 11:16		Mohan	OK
46	CCB59	CCB59	CCB	10/23/24 11:18		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133086

Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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	10/23/24 14:24		Kareem	OK
2	S1	S1	CAL2	10/23/24 14:28		Kareem	OK
3	S2	S2	CAL3	10/23/24 14:32		Kareem	OK
4	S3	S3	CAL4	10/23/24 14:37		Kareem	OK
5	S4	S4	CAL5	10/23/24 14:41		Kareem	OK
6	S5	S5	CAL6	10/23/24 14:45		Kareem	OK
7	ICV01	ICV01	ICV	10/23/24 14:59		Kareem	OK
8	LLICV01	LLICV01	LLICV	10/23/24 15:11		Kareem	OK
9	ICB01	ICB01	ICB	10/23/24 15:16		Kareem	OK
10	CRI01	CRI01	CRDL	10/23/24 15:22		Kareem	OK
11	ICSA01	ICSA01	ICSA	10/23/24 15:26		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	10/23/24 15:32		Kareem	OK
13	ICSADL	ICSADL	ICSA	10/23/24 15:36		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	10/23/24 15:40		Kareem	OK
15	CCV01	CCV01	CCV	10/23/24 15:57		Kareem	OK
16	CCB01	CCB01	CCB	10/23/24 16:02		Kareem	OK
17	P4458-02	280517	SAM	10/23/24 16:06		Kareem	OK
18	P4458-01	280517	SAM	10/23/24 16:10		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133086

Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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	P4443-05	OG-315-HR-502-COM	SAM	10/23/24 16:15		Kareem	OK
20	P4443-10	OG-315-HR-502-COM	SAM	10/23/24 16:19		Kareem	OK
21	P4443-01	OG-315-HR-502-COM	SAM	10/23/24 16:23		Kareem	OK
22	P4443-06	OG-315-HR-502-COM	SAM	10/23/24 16:28		Kareem	OK
23	P4452-01	ETGI-285	SAM	10/23/24 16:32	Ca,Cr high	Kareem	Dilution
24	P4452-01DL	ETGI-285DL	SAM	10/23/24 16:44	5x for Ca,Cr	Kareem	Confirms
25	CCV02	CCV02	CCV	10/23/24 16:48		Kareem	OK
26	CCB02	CCB02	CCB	10/23/24 16:52		Kareem	OK
27	P4397-06	WB-301-BOT	SAM	10/23/24 16:59		Kareem	OK
28	P4460-04	WB-303-BOT	SAM	10/23/24 17:03		Kareem	OK
29	P4460-04DUP	WB-303-BOTDUP	DUP	10/23/24 17:08		Kareem	OK
30	P4460-04L	WB-303-BOTL	SD	10/23/24 17:12		Kareem	OK
31	P4460-04MS	WB-303-BOTMS	MS	10/23/24 17:17	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
32	P4460-04MSD	WB-303-BOTMSD	MSD	10/23/24 17:21	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
33	P4460-04A	WB-303-BOTA	PS	10/23/24 17:25	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
34	PB164261TB	PB164261TB	MB	10/23/24 17:29		Kareem	OK
35	PB164298BL	PB164298BL	MB	10/23/24 17:34		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133086

Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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

36	PB164298BS	PB164298BS	LCS	10/23/24 17:38	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
37	CCV03	CCV03	CCV	10/23/24 17:42		Kareem	OK
38	CCB03	CCB03	CCB	10/23/24 17:46		Kareem	OK
39	P4456-01	PAD-10182024	SAM	10/23/24 17:51		Kareem	OK
40	P4460-02	WB-303-TOP	SAM	10/23/24 17:55		Kareem	OK
41	P4460-03	WB-303-BOT	SAM	10/23/24 17:59	MS-MSD Fail for more than 50% parameter	Kareem	OK
42	P4460-03DUP	WB-303-BOTDUP	DUP	10/23/24 18:04	MS-MSD Fail for more than 50% parameter	Kareem	OK
43	P4460-03L	WB-303-BOTL	SD	10/23/24 18:08	MS-MSD Fail for more than 50% parameter	Kareem	OK
44	P4460-03MS	WB-303-BOTMS	MS	10/23/24 18:12	MS-MSD Fail for more than 50% parameter	Kareem	OK
45	P4460-03MSD	WB-303-BOTMSD	MSD	10/23/24 18:16	MS-MSD Fail for more than 50% parameter	Kareem	OK
46	P4460-03A	WB-303-BOTA	PS	10/23/24 18:20	MS-MSD Fail for more than 50% parameter	Kareem	OK
47	PB164289BL	PB164289BL	MB	10/23/24 18:24	Fail for Al	Kareem	Not Ok
48	PB164289BS	PB164289BS	LCS	10/23/24 18:28	Fail for Al,Sb,As,Ba,Be,Cd,Pb,Mg, Mn,Se,Tl,V	Kareem	Not Ok
49	CCV04	CCV04	CCV	10/23/24 18:32		Kareem	OK
50	CCB04	CCB04	CCB	10/23/24 18:36		Kareem	OK
51	PB164244BL	PB164244BL	MB	10/23/24 18:41		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133086

Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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

52	PB164244BS	PB164244BS	LCS	10/23/24 18:45	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
53	PB164195TB	PB164195TB	MB	10/23/24 18:49		Kareem	OK
54	PB164197TB	PB164197TB	MB	10/23/24 18:54		Kareem	OK
55	PB164248BL	PB164248BL	MB	10/23/24 18:58		Kareem	OK
56	PB164248BS	PB164248BS	LCS	10/23/24 19:03	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
57	PB164174BL	PB164174BL	MB	10/23/24 19:07		Kareem	OK
58	PB164174BS	PB164174BS	LCS	10/23/24 19:11	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
59	PB164221BL	PB164221BL	MB	10/23/24 19:15		Kareem	OK
60	PB164221BS	PB164221BS	LCS	10/23/24 19:19	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
61	CCV05	CCV05	CCV	10/23/24 19:23		Kareem	OK
62	CCB05	CCB05	CCB	10/23/24 19:28		Kareem	OK
63	PB164222BL	PB164222BL	MB	10/23/24 19:32		Kareem	OK
64	PB164222BS	PB164222BS	LCS	10/23/24 19:36	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
65	PB164220BL	PB164220BL	MB	10/23/24 19:40		Kareem	OK
66	PB164220BS	PB164220BS	LCS	10/23/24 19:45	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133086

Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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

67	P4424-01	1-N-1	SAM	10/23/24 19:49		Kareem	OK
68	P4424-01DUP	1-N-1DUP	DUP	10/23/24 19:53		Kareem	OK
69	P4424-01L	1-N-1L	SD	10/23/24 19:58		Kareem	OK
70	P4424-01MS	1-N-1MS	MS	10/23/24 20:02	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
71	P4424-01MSD	1-N-1MSD	MSD	10/23/24 20:06	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
72	P4424-01A	1-N-1A	PS	10/23/24 20:11	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
73	CCV06	CCV06	CCV	10/23/24 20:15		Kareem	OK
74	CCB06	CCB06	CCB	10/23/24 20:21		Kareem	OK
75	P4424-02	1-S-1	SAM	10/23/24 20:25		Kareem	OK
76	P4424-03	1-B-1	SAM	10/23/24 20:30		Kareem	OK
77	P4397-04DL	WB-301-SWDL	SAM	10/23/24 20:47	Not Use	Kareem	Not Ok
78	P4397-04DUPDL	WB-301-SWDUPDL	DUP	10/23/24 20:51	Not Use	Kareem	Not Ok
79	P4397-04LDL	WB-301-SWLDL	SD	10/23/24 20:56	Not Use	Kareem	Not Ok
80	P4397-04MSDL	WB-301-SWMSDL	MS	10/23/24 21:00	Not Use	Kareem	Not Ok
81	P4397-04MSDDL	WB-301-SWMSDDL	MSD	10/23/24 21:05	Not Use	Kareem	Not Ok
82	LR1	LR1	HIGH STD	10/23/24 21:11		Kareem	OK
83	LR2	LR2	HIGH STD	10/23/24 21:16		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133086

Review By	kareem	Review On	10/25/2024 3:10:26 PM
Supervise By	jaswal	Supervise On	10/26/2024 8:07:20 AM

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	CCV07	CCV07	CCV	10/23/24 21:28		Kareem	OK
85	CCB07	CCB07	CCB	10/23/24 21:34		Kareem	OK
86	P4397-04ADL	WB-301-SWADL	PS	10/23/24 21:39	Not Use	Kareem	Not Ok
87	P4347-01	EFFLUENT-DAY-1-MI	SAM	10/23/24 21:43		Kareem	OK
88	P4347-01DUP	EFFLUENT-DAY-1-MI	DUP	10/23/24 21:47		Kareem	OK
89	P4347-01L	EFFLUENT-DAY-1-MI	SD	10/23/24 21:52		Kareem	OK
90	P4347-01MS	EFFLUENT-DAY-1-MI	MS	10/23/24 21:56	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
91	P4347-01MSD	EFFLUENT-DAY-1-MI	MSD	10/23/24 22:04	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
92	P4347-01A	EFFLUENT-DAY-1-MI	PS	10/23/24 22:08	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
93	PB164302BL	PB164302BL	MB	10/23/24 22:12		Kareem	OK
94	PB164302BS	PB164302BS	LCS	10/23/24 22:16	0.1 ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
95	CCV08	CCV08	CCV	10/23/24 22:20		Kareem	OK
96	CCB08	CCB08	CCB	10/23/24 22:25		Kareem	OK

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164298

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: 10/21/2024 **Time :** 11:45 **Temp :** 95 °C

End Digest Date: 10/21/2024 **Time :** 14:55 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: jgp

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	M6093
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
10/21/24 15:00	jgp / Met dig.	Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164298

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4397-06	WB-301-BOT	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	11
P4443-05	OG-315-HR-502-COMP-29	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	12
P4443-10	OG-315-HR-502-COMP-30	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	13
P4458-02	280517	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	14
P4460-04	WB-303-BOT	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	15
P4460-04MS	WB-303-BOTMS	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	17
P4460-04MSD	WB-303-BOTMSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	18
P4460-04DUP	WB-303-BOTDUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	16
PB164261TB	PB164261TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	19
PB164298BL	PBW298	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	20
PB164298BS	LCS298	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	21

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164306

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 10/22/2024 **Time :** 11:50 **Temp :** 94 °C

End Digest Date: 10/22/2024 **Time :** 13:50 **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	MP82873
CCV	30mL	MP82875
CRA	30mL	MP82877
Blank Spike	0.48mL	MP82865
Matrix Spike	0.48mL	MP82865

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	MP82866
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP82868
2.5 ppb	S2.5	30mL	MP82869
5.0 ppb	S5.0	30mL	MP82870
7.5 ppb	S7.5	30mL	MP82871
10.0 ppb	S10.0	30mL	MP82872
ICV	ICV	30mL	MP82873
ICB	ICB	30mL	MP82874
CCV	CCV	30mL	MP82875
CCB	CCB	30mL	MP82876
CRI	CRI	30mL	MP82877
CHK STD	CHK STD	30mL	MP82883

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/22/24 @ 14:20	MB - DIG. LAB	MB - Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164306

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4397-06	WB-301-BOT	3	30	<2	N/A	3-1
P4443-05	OG-315-HR-502-COMP-29	3	30	<2	N/A	2
P4443-10	OG-315-HR-502-COMP-30	3	30	<2	N/A	3
P4458-02	280517	3	30	<2	N/A	4
P4460-04	WB-303-BOT	3	30	<2	N/A	5
P4460-04DUP	WB-303-BOTDUP	3	30	<2	N/A	6
P4460-04MS	WB-303-BOTMS	3	30	<2	MP82865	7
P4460-04MSD	WB-303-BOTMSD	3	30	<2	MP82865	8
PB164261TB	PB164261TB	3	30	<2	N/A	9
PB164306BL	PBS306	30	30	<2	N/A	10
PB164306BS	LCS306	30	30	<2	MP82865	11

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

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

TCLP Filter ID : 114771

Start Prep Date : 10/18/2024 **Time :** 17:00

End Prep Date : 10/19/2024 **Time :** 10:15

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	N/A
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 CHECKED,30 RPM. Particle size reduction is not required. p4460-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/21/24 0810	JP TCLP Room	JPP EXT
	Preparation Group	Analysis Group VOA PIG

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

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
P4397-06	WB-301-BOT	01	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4443-05	OG-315-HR-502-COMP-29	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P4443-10	OG-315-HR-502-COMP-30	03	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4458-02	280517	04	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4460-04	WB-303-BOT	05	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-1
PB164261TB	LEB261	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB164261

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4397-06	WB-301-BOT	N/A	N/A	N/A	N/A	100	N/A
P4443-05	OG-315-HR-502-COMP-29	N/A	N/A	N/A	N/A	100	N/A
P4443-10	OG-315-HR-502-COMP-30	N/A	N/A	N/A	N/A	100	N/A
P4458-02	280517	N/A	N/A	N/A	N/A	100	N/A
P4460-04	WB-303-BOT	N/A	N/A	N/A	N/A	100	N/A
PB164261TB	LEB261	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB164261

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
P4397-06	WB-301-BOT	5.02	96.5	7.4	2.5	#1	4.93
P4443-05	OG-315-HR-502-COMP-29	5.03	96.5	7.6	2.5	#1	4.93
P4443-10	OG-315-HR-502-COMP-30	5.02	96.5	6.0	2.0	#1	4.93
P4458-02	280517	5.01	96.5	7.6	2.5	#1	4.93
P4460-04	WB-303-BOT	5.02	96.5	8.4	3.0	#1	4.93
PB164261TB	LEB261	N/A	N/A	N/A	N/A	#1	4.93

SAMPLE DATA

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:	10/10/24 10:00
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
		% Solid:	63.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.12	U	1	0.12	0.62	mg/Kg	10/15/24 14:20	10/16/24 10:30	7196A
Trivalent Chromium	193		1	0.79	0.79	mg/Kg		10/16/24 15:55	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

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:	10/10/24 12:15
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
		% Solid:	76

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.10	U	1	0.10	0.52	mg/Kg	10/15/24 14:20	10/16/24 10:31	7196A
Trivalent Chromium	23.4		1	0.66	0.66	mg/Kg		10/16/24 13:30	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:	10/10/24 11:00
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	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		10/11/24 17:26	7196A
trivalent Chromium	0.010	U	1	0.010	0.010	mg/L		10/16/24 17:26	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:	10/10/24 12:15
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-06	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.37	H	1	0	0	pH		10/18/24 16:45	9045D
Ignitability	NO		1	0	0	oC		10/21/24 09:20	1030
Reactive Cyanide	0.0087	U	1	0.0087	0.050	mg/Kg	10/21/24 13:30	10/21/24 15:35	9012B
Reactive Sulfide	1.58	J	1	0.19	10.0	mg/Kg	10/22/24 09:20	10/22/24 11:33	9034

Comments: pH result reported at temperature 24.4 °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.:**	P4397
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB132920

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	10/11/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	10/11/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.504	0.5	101	90-110	10/11/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4397
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB132957

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	10/16/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	10/16/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	10/16/2024
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	10/16/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4397
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133013

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
Corrosivity	pH	7.00	7	100	90-110	10/18/2024
Sample ID: **CCV1**						
Corrosivity	pH	2.01	2.00	101	90-110	10/18/2024
Sample ID: **CCV2**						
Corrosivity	pH	12.02	12.00	100	90-110	10/18/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4397
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133034

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.097	0.099	98	85-115	10/21/2024
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	10/21/2024
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	10/21/2024
Sample ID: CCV3						
Reactive Cyanide	mg/L	0.26	0.25	104	90-110	10/21/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4397
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB132920

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	10/11/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/11/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/11/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4397
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB132957

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	10/16/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/16/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/16/2024
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/16/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4397
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133034

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	10/21/2024
Sample ID: CCB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/21/2024
Sample ID: CCB2							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/21/2024
Sample ID: CCB3							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/21/2024

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Fax : 908 789 8922

Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Project: Amtrak Sawtooth Bridges 2024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB132920BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	10/11/2024
Sample ID: PB164149BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	10/16/2024
Sample ID: PB164265BL							
Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0088	0.05	10/21/2024
Sample ID: PB164267BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.186	10	10/22/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4397
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4395-01
Client ID: F05308-SOLIDMS
Percent Solids for Spike Sample: 81.6

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	1520		0.096	U	1570	40	97		10/16/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4397
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4395-01
Client ID: F05308-SOLIDMS
Percent Solids for Spike Sample: 81.6

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	48.0		0.096	U	49.0	2	98		10/16/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4397
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4395-01
Client ID: F05308-SOLIDMS
Percent Solids for Spike Sample: 81.6

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	40.7		0.096	U	49.0	2	83		10/16/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4397
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4397-04
Client ID: WB-301-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	0.98		0.0030	U	1.0	2	98		10/11/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4397
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4397-04
Client ID: WB-301-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	0.99		0.0030	U	1.0	2	99		10/11/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2024
Client ID: F05308-SOLIDDUP
SDG No.: P4397
Sample ID: P4395-01
Percent Solids for Spike Sample: 81.6

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.096	U	0.096	U	1	0		10/16/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4397
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4397-04
Client ID: WB-301-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		10/11/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4397
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4397-04
Client ID: WB-301-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	0.98		0.99		2	0.61		10/11/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4397
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4397-06
Client ID: WB-301-BOTDUP
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
Ignitability	oC	+/-20	NO		NO		1	0		10/21/2024
Reactive Cyanide	mg/Kg	+/-20	0.0087	U	0.013	J	1	200	*	10/21/2024
Reactive Sulfide	mg/Kg	+/-20	1.58	J	1.58	J	1	0		10/22/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4397
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4460-04
Client ID: WB-303-BOTDUP
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	8.30		8.31		1	0.12		10/18/2024

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4397
Project:	Amtrak Sawtooth Bridges 2024	**Run No.:**	LB132920

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132920BS								
Hexavalent Chromium	mg/L	0.5	0.50		101	1	90-111	10/11/2024

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4397
Project:	Amtrak Sawtooth Bridges 2024	**Run No.:**	LB132957

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB164149BS								
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	10/16/2024

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132920

Review By	lwona	Review On	10/15/2024 10:23:53 AM
Supervise By	jignesh	Supervise On	10/15/2024 10:25:29 AM
SubDirectory	LB132920	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	WP110174,WP110172,WP110171,WP110170,WP110108,WP107791,WP107796,WP110179,WP108645,WP110178,'

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/11/24 17:10		lwona	OK
2	CAL2	CAL2	CAL	10/11/24 17:11		lwona	OK
3	CAL3	CAL3	CAL	10/11/24 17:12		lwona	OK
4	CAL4	CAL4	CAL	10/11/24 17:13		lwona	OK
5	CAL5	CAL5	CAL	10/11/24 17:14		lwona	OK
6	CAL6	CAL6	CAL	10/11/24 17:15		lwona	OK
7	CAL7	CAL7	CAL	10/11/24 17:16		lwona	OK
8	ICV	ICV	ICV	10/11/24 17:17		lwona	OK
9	ICB	ICB	ICB	10/11/24 17:18		lwona	OK
10	CCV1	CCV1	CCV	10/11/24 17:19		lwona	OK
11	CCB1	CCB1	CCB	10/11/24 17:20		lwona	OK
12	RL Check	RL Check	SAM	10/11/24 17:21		lwona	OK
13	LB132920BL	LB132920BL	MB	10/11/24 17:22		lwona	OK
14	LB132920BS	LB132920BS	LCS	10/11/24 17:23		lwona	OK
15	P4368-07	LOD-MDL-WATER-01	SAM	10/11/24 17:24		lwona	OK
16	P4368-08	LOQ-WATER-02-QT4	SAM	10/11/24 17:25		lwona	OK
17	P4397-04	WB-301-SW	SAM	10/11/24 17:26		lwona	OK
18	P4397-04DUP	WB-301-SWDUP	DUP	10/11/24 17:28		lwona	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132920

Review By	Iwona	Review On	10/15/2024 10:23:53 AM
Supervise By	jignesh	Supervise On	10/15/2024 10:25:29 AM
SubDirectory	LB132920	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	WP110174,WP110172,WP110171,WP110170,WP110108,WP107791,WP107796,WP110179,WP108645,WP110178,'

19	P4397-04MS	WB-301-SWMS	MS	10/11/24 17:29	1ML WP108658+99.0ML SAMPLE	Iwona	OK
20	P4397-04MSD	WB-301-SWMSD	MSD	10/11/24 17:30	1ML WP108658+99.0ML SAMPLE	Iwona	OK
21	CCV2	CCV2	CCV	10/11/24 17:31		Iwona	OK
22	CCB2	CCB2	CCB	10/11/24 17:32		Iwona	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132957

Review By	rubina	Review On	10/16/2024 10:51:06 AM
Supervise By	Iwona	Supervise On	10/16/2024 11:07:20 AM
SubDirectory	LB132957	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	WP110246,WP107791,WP107796,WP108645

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/16/24 10:10		rubina	OK
2	CAL2	CAL2	CAL	10/16/24 10:11		rubina	OK
3	CAL3	CAL3	CAL	10/16/24 10:12		rubina	OK
4	CAL4	CAL4	CAL	10/16/24 10:13		rubina	OK
5	CAL5	CAL5	CAL	10/16/24 10:14		rubina	OK
6	CAL6	CAL6	CAL	10/16/24 10:15		rubina	OK
7	CAL7	CAL7	CAL	10/16/24 10:16		rubina	OK
8	ICV	ICV	ICV	10/16/24 10:17		rubina	OK
9	ICB	ICB	ICB	10/16/24 10:18		rubina	OK
10	CCV1	CCV1	CCV	10/16/24 10:19		rubina	OK
11	CCB1	CCB1	CCB	10/16/24 10:20		rubina	OK
12	RL Check	RL Check	SAM	10/16/24 10:21		rubina	OK
13	PB164149BL	PB164149BL	MB	10/16/24 10:22		rubina	OK
14	PB164149BS	PB164149BS	LCS	10/16/24 10:23		rubina	OK
15	P4368-03	MDL-SOIL-03-QT4-20	SAM	10/16/24 10:24		rubina	OK
16	P4395-01	F05308-SOLID	SAM	10/16/24 10:25		rubina	OK
17	P4395-01DUP	F05308-SOLIDDUP	DUP	10/16/24 10:26		rubina	OK
18	P4395-01MSPre	F05308-SOLIDMS	MS	10/16/24 10:27		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132957

Review By	rubina	Review On	10/16/2024 10:51:06 AM
Supervise By	Iwona	Supervise On	10/16/2024 11:07:20 AM
SubDirectory	LB132957	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	WP110246,WP107791,WP107796,WP108645

19	P4395-01MS2Ins	F05308-SOLIDMS	MS	10/16/24 10:28		rubina	OK
20	P4395-01MS3Post	F05308-SOLIDMS	MS	10/16/24 10:29		rubina	OK
21	P4397-01	WB-301-TOP	SAM	10/16/24 10:30		rubina	OK
22	P4397-02	WB-301-BOT	SAM	10/16/24 10:31		rubina	OK
23	CCV2	CCV2	CCV	10/16/24 10:32		rubina	OK
24	CCB2	CCB2	CCB	10/16/24 10:33		rubina	OK
25	P4400-01	NB-08-101424	SAM	10/16/24 10:34		rubina	OK
26	P4403-01	Hawthorne TP Soil	SAM	10/16/24 10:35		rubina	OK
27	P4406-01	OK-02-101524	SAM	10/16/24 10:36		rubina	OK
28	P4410-01	TR-04-101524	SAM	10/16/24 10:37		rubina	OK
29	CCV3	CCV3	CCV	10/16/24 10:38		rubina	OK
30	CCB3	CCB3	CCB	10/16/24 10:39		rubina	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133013

Review By	jignesh	Review On	10/19/2024 12:17:28 PM
Supervise By	Iwona	Supervise On	10/21/2024 10:08:59 AM
SubDirectory	LB133013	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	10/18/24 16:30		Jignesh	OK
2	CAL2	CAL2	CAL	10/18/24 16:31		Jignesh	OK
3	CAL3	CAL3	CAL	10/18/24 16:33		Jignesh	OK
4	ICV	ICV	ICV	10/18/24 16:37		Jignesh	OK
5	CCV1	CCV1	CCV	10/18/24 16:40		Jignesh	OK
6	P4397-06	WB-301-BOT	SAM	10/18/24 16:45		Jignesh	OK
7	P4443-05	OG-315-HR-502-COM	SAM	10/18/24 16:48		Jignesh	OK
8	P4443-10	OG-315-HR-502-COM	SAM	10/18/24 16:50		Jignesh	OK
9	P4458-02	280517	SAM	10/18/24 17:00		Jignesh	OK
10	P4460-04	WB-303-BOT	SAM	10/18/24 17:10		Jignesh	OK
11	P4460-04DUP	WB-303-BOTDUP	DUP	10/18/24 17:11		Jignesh	OK
12	CCV2	CCV2	CCV	10/18/24 17:15		Jignesh	OK

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB133020

Review By	rubina	Review On	10/21/2024 11:12:11 AM
Supervise By	Iwona	Supervise On	10/21/2024 11:13:29 AM
SubDirectory	LB133020	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	P4397-06	WB-301-BOT	SAM	10/21/24 09:20		rubina	OK
2	P4397-06DUP	WB-301-BOTDUP	DUP	10/21/24 09:28		rubina	OK
3	P4443-01	OG-315-HR-502-COM	SAM	10/21/24 09:35		rubina	OK
4	P4443-05	OG-315-HR-502-COM	SAM	10/21/24 09:42		rubina	OK
5	P4443-06	OG-315-HR-502-COM	SAM	10/21/24 09:50		rubina	OK
6	P4443-10	OG-315-HR-502-COM	SAM	10/21/24 09:58		rubina	OK
7	P4454-03	34542-43	SAM	10/21/24 10:05		rubina	OK
8	P4458-01	280517	SAM	10/21/24 10:12		rubina	OK
9	P4458-02	280517	SAM	10/21/24 10:20		rubina	OK
10	P4460-04	WB-303-BOT	SAM	10/21/24 10:27		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133034

Review By	Niha	Review On	10/22/2024 8:50:05 AM
Supervise By	Iwona	Supervise On	10/22/2024 9:43:54 AM
SubDirectory	LB133034	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP110325,WP110326,WP110327,WP110328,WP110329,WP110330,WP110331
ICV Standard	WP110333
CCV Standard	WP110326
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109068,WP110103,WP110332

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/21/24 14:13		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/21/24 14:13		Niha	OK
3	10PPBCN	10PPBCN	CAL3	10/21/24 14:13		Niha	OK
4	50PPBCN	50PPBCN	CAL4	10/21/24 14:13		Niha	OK
5	100PPBCN	100PPBCN	CAL5	10/21/24 14:13		Niha	OK
6	250PPBCN	250PPBCN	CAL6	10/21/24 14:13		Niha	OK
7	500PPBCN	500PPBCN	CAL7	10/21/24 14:13		Niha	OK
8	ICV1	ICV1	ICV	10/21/24 15:35		Niha	OK
9	ICB1	ICB1	ICB	10/21/24 15:35		Niha	OK
10	CCV1	CCV1	CCV	10/21/24 15:35		Niha	OK
11	CCB1	CCB1	CCB	10/21/24 15:35		Niha	OK
12	PB164265BL	PB164265BL	MB	10/21/24 15:35		Niha	OK
13	P4397-06	WB-301-BOT	SAM	10/21/24 15:35		Niha	OK
14	P4397-06DUP	WB-301-BOTDUP	DUP	10/21/24 15:42		Niha	OK
15	P4430-01	VNJ-209	SAM	10/21/24 15:42		Niha	OK
16	P4443-10	OG-315-HR-502-COM	SAM	10/21/24 15:42		Niha	OK
17	P4458-02	280517	SAM	10/21/24 15:42		Niha	OK
18	P4460-04	WB-303-BOT	SAM	10/21/24 15:50		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133034

Review By	Niha	Review On	10/22/2024 8:50:05 AM
Supervise By	Iwona	Supervise On	10/22/2024 9:43:54 AM
SubDirectory	LB133034	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP110325,WP110326,WP110327,WP110328,WP110329,WP110330,WP110331
ICV Standard	WP110333
CCV Standard	WP110326
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109068,WP110103,WP110332

19	P4467-04	TP-1	SAM	10/21/24 15:50		Niha	OK
20	P4468-04	ETGI-329	SAM	10/21/24 15:50		Niha	OK
21	P4443-05	OG-315-HR-502-COM	SAM	10/21/24 15:50		Niha	OK
22	CCV2	CCV2	CCV	10/21/24 15:50		Niha	OK
23	CCB2	CCB2	CCB	10/21/24 15:55		Niha	OK
24	P4468-06	ETGI-345	SAM	10/21/24 15:55		Niha	OK
25	CCV3	CCV3	CCV	10/21/24 15:55		Niha	OK
26	CCB3	CCB3	CCB	10/21/24 15:55		Niha	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB133040

Review By	rubina	Review On	10/22/2024 12:08:17 PM
Supervise By	Iwona	Supervise On	10/22/2024 12:08:34 PM
SubDirectory	LB133040	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	PB164267BL	PB164267BL	MB	10/22/24 11:30		rubina	OK
2	P4397-06	WB-301-BOT	SAM	10/22/24 11:33		rubina	OK
3	P4397-06DUP	WB-301-BOTDUP	DUP	10/22/24 11:35		rubina	OK
4	P4430-01	VNJ-209	SAM	10/22/24 11:38		rubina	OK
5	P4443-05	OG-315-HR-502-COM	SAM	10/22/24 11:40		rubina	OK
6	P4443-10	OG-315-HR-502-COM	SAM	10/22/24 11:43		rubina	OK
7	P4458-02	280517	SAM	10/22/24 11:45		rubina	OK
8	P4460-04	WB-303-BOT	SAM	10/22/24 11:48		rubina	OK
9	P4467-04	TP-1	SAM	10/22/24 11:50		rubina	OK
10	P4468-04	ETGI-329	SAM	10/22/24 11:53		rubina	OK
11	P4468-06	ETGI-345	SAM	10/22/24 11:56		rubina	OK
12	P4472-04	BP-F-28	SAM	10/22/24 11:58		rubina	OK
13	P4472-08	BP-F-6	SAM	10/22/24 12:00		rubina	OK

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

LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**SOIL**			**10/10/24 10:00**			**10/11/24**
			Hexavalent Chromium	7196A		10/15/24	10/16/24 10:30	
			Trivalent Chromium	6010D			10/16/24 15:55	
P4397-02	**WB-301-BOT**	**SOIL**			**10/10/24 12:15**			**10/11/24**
			Hexavalent Chromium	7196A		10/15/24	10/16/24 10:31	
			Trivalent Chromium	6010D			10/16/24 13:30	
P4397-04	**WB-301-SW**	**WATER**			**10/10/24 11:00**			**10/11/24**
			Hexavalent Chromium	7196A			10/11/24 17:26	
			trivalent Chromium	6010D			10/16/24 17:26	
P4397-06	**WB-301-BOT**	**SOIL**			**10/10/24 12:15**			**10/11/24**
			Corrosivity	9045D			10/18/24 16:45	
			Ignitability	1030			10/21/24 09:20	
			Reactive Cyanide	9012B		10/21/24	10/21/24 15:35	
			Reactive Sulfide	9034		10/22/24	10/22/24 11:33	

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB164149

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: 10/15/2024 **Time :** 14:20 **Temp :** 90 °C

End Digest Date: 10/15/2024 **Time :** 15:20 **Temp :** 95 °C

II bath 10/15/2024 15:55 90 c
10/15/2024 16:55 45c]RM

Digestion tube ID : M6054

Filter paper ID : 400213

pH Meter ID : WC pH meter-1

Block Thermometer ID : WC-Block#1

Prep Technician Signature: RM

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP108658
INSOLUBLE SPIKE	0.02GM	W3112
POST-DIGESTION SPIKE	2.0ML	WP108658
LCSS	1.0ML	WP108659
PBS003	50ML	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	WP107796
5N H2SO4	1-3ML	WP107791
N/A	N/A	N/A
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	WP110223
CAL3	CAL3	0.5ML	WP110223
CAL4	CAL4	1ML	WP110223
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:

10/15/2024 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

PB164149

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4368-03	MDL-SOIL-03-QT4-2024	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
P4395-01	F05308-SOLID	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4395-01DUP	F05308-SOLIDDUP	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4395-01MSPre	F05308-SOLIDMSPRE	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4395-01MS2Ins	F05308-SOLIDMS2INS	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4395-01MS3Post	F05308-SOLIDMS3POST	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4397-01	WB-301-TOP	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4397-02	WB-301-BOT	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4400-01	NB-08-101424	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4403-01	HAWTHORNE TP SOIL	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4406-01	OK-02-101524	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4410-01	TR-04-101524	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164149BL	PBS149	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164149BS	LCS149	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB164265

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 10/21/2024 **Time :** 13:30 **Temp :** N/A

Matrix : SOIL

End Digest Date: 10/21/2024 **Time :** 15:00 **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:** IZ

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
10.21.2024, 15:10	NF(WC)	NF
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB164265

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4397-06	WB-301-BOT	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4397-06DUP	WB-301-BOTDUP	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4430-01	VNJ-209	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4443-05	OG-315-HR-502-COMP-29	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4443-10	OG-315-HR-502-COMP-30	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4458-02	280517	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4460-04	WB-303-BOT	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4467-04	TP-1	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
P4468-04	ETGI-329	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4468-06	ETGI-345	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164265BL	PBS265	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB164267

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Start Digest Date: 10/22/2024 **Time :** 09:20 **Temp :** N/A

Matrix : SOIL

End Digest Date: 10/22/2024 **Time :** 10:50 **Temp :** N/A

Pippete ID : WC

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:** RM

Weigh By : RM **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
0.5M 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:

10/22/2024 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

PB164267

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4397-06	WB-301-BOT	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
P4397-06DUP	WB-301-BOTDUP	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
P4430-01	VNJ-209	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4443-05	OG-315-HR-502-COMP-29	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4443-10	OG-315-HR-502-COMP-30	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4458-02	280517	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
P4460-04	WB-303-BOT	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4467-04	TP-1	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
P4468-04	ETGI-329	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4468-06	ETGI-345	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4472-04	BP-F-28	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4472-08	BP-F-6	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164267BL	PBS267	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. P4397
QUOTE NO.
COC Number 2042048

16
16.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannet Fleming
ADDRESS: 1010 Adam Avenue
CITY Audobon STATE: PA ZIP: 19403
ATTENTION: Joe Krupansky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's replacement of SB
PROJECT NO.: 950000818 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: DRAC@bamsystems.com
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St.
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha. PHONE: 908-788-3198

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
4 TAL Metals (+Hg), CN(T)
5 EPH
6
7
8
9

PRESERVATIVES

A
B
F

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9
1.	WB-301-TOP	S	X		10/10	10:00	10	X	X	X	X	X	X			
2.	WB-301-BOT	S	X		10/10	12:15	10	X	X	X	X	X	X			
3.	WB-301-SW	GW	X		10/10	11:00	7	X	X	X	X	X				
4.	TB-10102024	W			10/10	LAB	2	X								
5.	Temp. Blank															
6.																
7.																
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. Nita Maresca	3:05 PM 10/11/24	1. 1505 10-11-24
2.		2.
3.	1610 10/11/24	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.5 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Vrunda Pujara <vpujara@yu-associates.com>
Sent: Thursday, October 17, 2024 4:58 PM
To: Yazmeen Gomez
Cc: Chengyu Hang; 'Jordan Hedvat'
Subject: Corrected COC
Attachments: Corrected COC.pdf

Hello Yazmeen,

For samples collected on 10.10.2024. The WB-301-Bot were to be additionally analyzed for Full TCLP, RCRA parameters and TOX. I have included the corrected scanned COC in the email. Kindly let me know if you have any additional questions.

Thanks,

Vrunda Pujara
Senior Staff Engineer

YU & Associates
611 River Drive, 3rd Floor* | Elmwood Park | NJ 07407
D: 201.791.0075 **F:** 201.791.4533

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 : P4397 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 10/11/2024 3:19:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 10/11/2024 4:10:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff : 10/14/2024 9:50:49 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4397-01	WB-301-TOP	Solid	10/10/2024	10:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4397-02	WB-301-BOT	Solid	10/10/2024	12:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4397-04	WB-301-SW	Water	10/10/2024	11:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
P4397-05	TB-10102024	Water	10/11/2024	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 10/11/24

Received By :
Date / Time : 10/11/24

Storage Area : VOA Refridgerator Room