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 : PERTH AMBOY**

**ROMAN E&G CORP**

**14 Ogden St**

**Newark, NJ - 07104**

**Phone No: 973-482-1123**

**ORDER ID : P4258**

**ATTENTION : Mark Mattheiss**

**Laboratory Certification ID # 20012**

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# Cover Page

**Order ID :** P4258

**Project ID :** Perth Amboy

**Client :** Roman E&G Corp

| Lab Sample Number | Client Sample Number |
|---|---|
| P4258-01 | Chamberlain Ave |
| P4258-02 | Chamberlain Ave |
| P4258-03 | Chamberlain Ave |
| P4258-04 | Chamberlain Ave |

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 , 10/24/2024, 10:09:24 AM

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: VOC-TCLVOA-10**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Ammonia, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Ignitability, Oil and Grease, Paint Filter, PCB, pH, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

**C. Analytical Techniques:**
The 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 except for Chamberlain Ave, Chamberlain AveRE the failure sample in Internal standard was reanalyzed to confirm the failure as per method and reported.

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 %RSD is greater than 15% in the Initial Calibration method (82Y090924S.M) for Dichlorodifluoromethane this compound is passing on Linear Regression.

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The Continuous Calibration File ID VY019756.D met the requirements except for Dichlorodifluoromethane failing marginally low and Bromochloromethane and t-1,3-Dichloropropene failing high but no positive hit in associated sample therefore no corrective action taken.

The Continuous Calibration File ID VY019776.D met the requirements except for Bromochloromethane failing high but no positive hit in associated sample therefore no corrective action taken.

The Tuning criteria met requirements.

**E. Additional Comments:**
The temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.

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

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

---

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

Signature N. N. Pandya

APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/24/2024, 10:09:32 AM

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: TCLP VOA**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Ammonia, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Ignitability, Oil and Grease, Paint Filter, PCB, pH, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS 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:**
The temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.

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Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <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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APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/24/2024, 10:09:41 AM

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: SVOC-TCL BNA -20**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, EPH, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Herbicide, Hexavalent Chromium, Ignitability, Mercury, Metals Group1, Metals ICP-Group1, Metals ICP-TAL, METALS-TAL, Oil and Grease, Paint Filter, PCB, Pesticide-TCL, pH, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS 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 df The analysis of SVOC-TCL BNA -20 was based on method 8270E 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 except for PB164071BS [Terphenyl-d14 - 113%], failing high but the associate samples have no positive hit for these compounds therefore no corrective action was taken.

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 .

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The Blank Spike for {PB164071BS} with File ID: BF139921.D met requirements for all samples except for 2,4-Dinitrotoluene[112%], 2-Nitroaniline[106%], 2-Nitrophenol [112%], 4,6-Dinitro-2-methylphenol[141%], Acenaphthene[106%], Benzo(a)anthracene [106%], Benzo(a)pyrene[112%], Butylbenzylphthalate[112%], Chrysene[106%], Dimethylphthalate[100%], Hexachlorobenzene[100%], Hexachlorocyclopentadiene [188%], Indeno(1,2,3-cd)pyrene[118%], Isophorone[100%], N-Nitrosodiphenylamine [100%] and Pyrene[112%], The associate samples have no positive hit for these compounds therefore no corrective action was 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 BF139787.D met the requirements except for 4-Nitroaniline, marginally low and Di-n-octyl phthalate failing high, but The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF139917.D met the requirements except for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

**E. Additional Comments:**
The temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.
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.

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Signature N. N. Pandya

APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/24/2024, 10:09:52 AM

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: TCLP BNA**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, EPH, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Herbicide, Hexavalent Chromium, Ignitability, Mercury, Metals Group1, Metals ICP-Group1, Metals ICP-TAL, METALS-TAL, Oil and Grease, Paint Filter, PCB, Pesticide-TCL, pH, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS and VOC-TCLVOA-10. This data package contains results for TCLP BNA.

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

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

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**E. Additional Comments:**

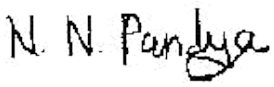
The temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg 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.

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APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/24/2024, 10:10:01 AM

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: Pesticide-TCL**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, EPH, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Herbicide, Hexavalent Chromium, Ignitability, Mercury, Metals Group1, Metals ICP-Group1, Metals ICP-TAL, METALS-TAL, Oil and Grease, Paint Filter, PCB, Pesticide-TCL, pH, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS and VOC-TCLVOA-10. This data package contains results for Pesticide-TCL.

**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 Pesticide-TCLs was based on method 8081B 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 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 temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.

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.

---

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Signature N. N. Pandya

APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/24/2024, 10:10:33 AM

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: TCLP Pesticide**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, EPH, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Herbicide, Hexavalent Chromium, Ignitability, Mercury, Metals Group1, Metals ICP-Group1, Metals ICP-TAL, METALS-TAL, Oil and Grease, Paint Filter, PCB, Pesticide-TCL, pH, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS 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 .

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**E. Additional Comments:**
The temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.

**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 , 10/24/2024, 10:10:42 AM

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: PCB**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Ammonia, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Ignitability, Oil and Grease, Paint Filter, PCB, pH, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS 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 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 analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID PP067441.D met the requirements except for Aroclor-1260(Peak-02),Aroclor-1260(Peak-03) is failing in 1st column but passing in 2nd column therefore no corrective action taken.

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**E. Additional Comments:**
The temperature of the samples at the time of receipt was 22.1°C,Lab notified this issue to the client. See the communication in shipping Document section.

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.

---

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APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/24/2024, 10:10:50 AM

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: Herbicide**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, EPH, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Herbicide, Hexavalent Chromium, Ignitability, Mercury, Metals Group1, Metals ICP-Group1, Metals ICP-TAL, METALS-TAL, Oil and Grease, Paint Filter, PCB, Pesticide-TCL, pH, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS and VOC-TCLVOA-10. This data package contains results for 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 Herbicides was based on method 8151A 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 {P4385-02MS} with File ID: PS027910.D recoveries met the requirements for all compounds except for Dinoseb[0%] due to matrix interference.
The MSD {P4385-02MSD} with File ID: PS027911.D recoveries met the acceptable requirements except for Dinoseb[0%] due to matrix interference.
The RPD for {P4385-02MSD} with File ID: PS027911.D met criteria except for 2,4-DB[47%] due to difference in results of MS and MSD.

The Blank Spike met requirements for all samples .

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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:**
The temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.

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 , 10/24/2024, 10:10:59 AM

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Phone: 908 789 8900 Fax: 908 789 8922

# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: TCLP Herbicide**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Ammonia, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Ignitability, Oil and Grease, Paint Filter, PCB, pH, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS 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.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .

The MSD {P4258-04MSD} with File ID: PS027837.D recoveries met the acceptable requirements except for 2,4,5-TP(Silvex)[149%] 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 .

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**E. Additional Comments:**
The temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.

**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 , 10/24/2024, 10:11:07 AM

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: EPH**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, EPH, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Herbicide, Hexavalent Chromium, Ignitability, Mercury, Metals Group1, Metals ICP-Group1, Metals ICP-TAL, METALS-TAL, Oil and Grease, Paint Filter, PCB, Pesticide-TCL, pH, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS 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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Phone: 908 789 8900 Fax: 908 789 8922

**E. Additional Comments:**
The temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.

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 , 10/24/2024, 10:11:17 AM

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: Metals ICP-TAL,Mercury**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters:**
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, EPH, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Herbicide, Hexavalent Chromium, Ignitability, Mercury, Metals Group1, Metals ICP-Group1, Metals ICP-TAL, METALS-TAL, Oil and Grease, Paint Filter, PCB, Pesticide-TCL, pH, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS 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). The analysis and digestion of Mercury was based on method 7471B.

**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 (SP-10MS) analysis met criteria for all samples except for Antimony, Copper, Potassium and Selenium due to Chemical interference during Digestion Process.
The Matrix Spike Duplicate (SP-10MSD) analysis met criteria for all samples except for Copper, Potassium, Selenium, Sodium, Vanadium and Zinc due to Chemical Interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met criteria for all samples.

**E. Additional Comments:**
In analytical sequence LB133014, The % Recovery outside the limit for Iron and Manganese, but no any sample associated under this CCV.
The temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.

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 , 10/24/2024, 10:11:26 AM

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: TCLP Mercury,TCLP Metals + Cu+Ni+Zn**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters:**
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, EPH, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Herbicide, Hexavalent Chromium, Ignitability, Mercury, Metals Group1, Metals ICP-Group1, Metals ICP-TAL, METALS-TAL, Oil and Grease, Paint Filter, PCB, Pesticide-TCL, pH, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS and VOC-TCLVOA-10. This data package contains results for TCLP Mercury,TCLP Metals + Cu+Ni+Zn.

**C. Analytical Techniques:**
The analysis of TCLP Metals + Cu+Ni+Zn 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:**

The temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.

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 , 10/24/2024, 10:11:36 AM

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# CASE NARRATIVE

**Roman E&G Corp**
**Project Name: Perth Amboy**
**Project # N/A**
**Chemtech Project # P4258**
**Test Name: Hexavalent Chromium,ASTM Ammonia,TS,Oil and Grease,Corrosivity,pH,Paint Filter,ASTM TS,TVS,Ammonia,ASTM COD,COD,Anions Group1,Ignitability,ASTM Oil and Grease,Reactive Cyanide,Reactive Sulfide**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 10/01/2024.

**B. Parameters:**
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, COD, Corrosivity, EPH, GROWS Concrete, GROWS Concrete ASTM, GROWS Soil, GROWS Soil-Waste Class, Herbicide, Hexavalent Chromium, Ignitability, Mercury, Metals Group1, Metals ICP-Group1, Metals ICP-TAL, METALS-TAL, Oil and Grease, Paint Filter, PCB, Pesticide-TCL, pH, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals + Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TS, TVS and VOC-TCLVOA-10. This data package contains results for Hexavalent Chromium,ASTM Ammonia,TS,Oil and Grease,Corrosivity,pH,Paint Filter,ASTM TS,TVS,Ammonia,ASTM COD,COD,Anions Group1,Ignitability,ASTM Oil and Grease,Reactive Cyanide,Reactive Sulfide.

**C. Analytical Techniques:**
The analysis of Ignitability was based on method 1030, The analysis of TVS was based on method 160.4, The analysis of ASTM Oil and Grease,Oil and Grease was based on method 1664A, 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, The analysis of Corrosivity,pH was based on method 9045D, The analysis of Anions Group1 was based on method 9056A, The analysis of Paint Filter was based on method 9095B, The analysis of ASTM TS,TS was based on method SM2540 B, The analysis of Ammonia,ASTM Ammonia was based on method SM4500-NH3 and The analysis of ASTM COD,COD was based on method SM5220 D.

**D. QA/ QC Samples:**
The Holding Times were met for all samples except for Chamberlain Ave of pH & for Chamberlain Ave of Corrosivity Due to sample receive out of hold.

The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (Chamberlain AveMS) analysis met criteria for all samples except for Oil and Grease due to matrix interferences.
The Matrix Spike Duplicate (Chamberlain AveMSD) analysis met criteria for all samples except for Oil and Grease due to matrix interferences.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

**E. Additional Comments:** The temperature of the samples at the time of receipt was 22.1°C, Lab notified this issue to the client. See the communication in shipping Document section.

---

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 , 10/24/2024, 10:11:47 AM

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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<br>**"P"** for ICP instrument<br>**"PM"** for ICP when Microwave Digestion is used<br>**"CV"** for Manual Cold Vapor AA<br>**"AV"** for automated Cold Vapor AA<br>**"CA"** for MIDI-Distillation Spectrophotometric<br>**"AS"** for Semi –Automated Spectrophotometric<br>**"C"** for Manual Spectrophotometric<br>**"T"** for Titrimetric<br>**"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:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(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 #:** P4258

| | 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:** MAYUR DESAI **Date:** 10/24/2024

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Fax : 908 789 8922



# Hit Summary Sheet
**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **Chamberlain Ave** | | | | | | | | |
| P4258-03 | Chamberlain Ave | SOIL | Benzene, 1,2,3,5-tetramethyl- | * | 9.60 | J | 0 | 0 | ug/Kg |
| P4258-03 | Chamberlain Ave | SOIL | 1-Phenyl-1-butene | * | 12.6 | J | 0 | 0 | ug/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Benzene, 2-ethyl-1,3-dimethyl- | * | 16.8 | J | 0 | 0 | ug/Kg |
| P4258-03 | Chamberlain Ave | SOIL | n-propylbenzene | * | 4.50 | J | 0.73 | 5.70 | ug/Kg |
| P4258-03 | Chamberlain Ave | SOIL | n-Butylbenzene | * | 2.60 | J | 0.72 | 5.70 | ug/Kg |
| | | | **Total Tics :** | | 46.1 | | | | |
| | | | **Total Concentration:** | | 46.1 | | | | |

# SAMPLE DATA

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



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 86 |
| Sample Wt/Vol: | 5.08 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 |
|---|---|---|---|---|
| VY019765.D | 1 | | 10/02/24 15:23 | VY100224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.90 | U | 1.90 | 5.70 | ug/Kg |
| 74-87-3 | Chloromethane | 1.30 | U | 1.30 | 5.70 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.88 | U | 0.88 | 5.70 | ug/Kg |
| 74-83-9 | Bromomethane | 1.20 | U | 1.20 | 5.70 | ug/Kg |
| 75-00-3 | Chloroethane | 1.20 | U | 1.20 | 5.70 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.20 | U | 1.20 | 5.70 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.89 | U | 0.89 | 5.70 | ug/Kg |
| 67-64-1 | Acetone | 7.10 | U | 7.10 | 28.6 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.50 | U | 1.50 | 5.70 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.77 | U | 0.77 | 5.70 | ug/Kg |
| 79-20-9 | Methyl Acetate | 2.10 | U | 2.10 | 5.70 | ug/Kg |
| 75-09-2 | Methylene Chloride | 3.90 | U | 3.90 | 11.4 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.96 | U | 0.96 | 5.70 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.72 | U | 0.72 | 5.70 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.79 | U | 0.79 | 5.70 | ug/Kg |
| 78-93-3 | 2-Butanone | 6.50 | U | 6.50 | 28.6 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.70 | U | 0.70 | 5.70 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.80 | U | 2.80 | 5.70 | ug/Kg |
| 67-66-3 | Chloroform | 0.77 | U | 0.77 | 5.70 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.89 | U | 0.89 | 5.70 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 71-43-2 | Benzene | 0.82 | U | 0.82 | 5.70 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.70 | U | 0.70 | 5.70 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.86 | U | 0.86 | 5.70 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.76 | U | 0.76 | 5.70 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.64 | U | 0.64 | 5.70 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.00 | U | 5.00 | 28.6 | ug/Kg |
| 108-88-3 | Toluene | 0.77 | U | 0.77 | 5.70 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 86 |
| Sample Wt/Vol: | 5.08 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 |
|---|---|---|---|---|
| VY019765.D | 1 | | 10/02/24 15:23 | VY100224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.69 | U | 0.69 | 5.70 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.65 | U | 0.65 | 5.70 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.96 | U | 0.96 | 5.70 | ug/Kg |
| 591-78-6 | 2-Hexanone | 5.50 | U | 5.50 | 28.6 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.74 | U | 0.74 | 5.70 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.90 | U | 0.90 | 5.70 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.85 | U | 0.85 | 5.70 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.71 | U | 0.71 | 5.70 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.50 | U | 1.50 | 11.4 | ug/Kg |
| 95-47-6 | o-Xylene | 0.80 | U | 0.80 | 5.70 | ug/Kg |
| 100-42-5 | Styrene | 0.69 | U | 0.69 | 5.70 | ug/Kg |
| 75-25-2 | Bromoform | 0.93 | U | 0.93 | 5.70 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.77 | U | 0.77 | 5.70 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.30 | U | 1.30 | 5.70 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.85 | U | 0.85 | 5.70 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.92 | U | 0.92 | 5.70 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.68 | U | 0.68 | 5.70 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1.80 | 5.70 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.90 | U | 0.90 | 5.70 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.89 | U | 0.89 | 5.70 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.8 | | 50 - 163 | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.2 | | 54 - 147 | 106% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 53.5 | | 58 - 134 | 107% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 37.7 | | 29 - 146 | 75% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 62000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 102000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 74700 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 23900 | 13.34 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 86 |
| Sample Wt/Vol: | 5.08 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 |
|---|---|---|---|---|
| VY019765.D | 1 | | 10/02/24 15:23 | VY100224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 103-65-1 | n-propylbenzene | 4.50 | J | | 12.6 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 2.60 | J | | 13.6 | ug/Kg |
| 002870-04-4 | Benzene, 2-ethyl-1,3-dimethyl- | 16.8 | J | | 13.9 | ug/Kg |
| 000527-53-7 | Benzene, 1,2,3,5-tetramethyl- | 9.60 | J | | 14.2 | ug/Kg |
| 000824-90-8 | 1-Phenyl-1-butene | 12.6 | J | | 14.6 | ug/Kg |

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain AveRE | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03RE | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 86 |
| Sample Wt/Vol: | 4.99 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY019780.D | 1 | | 10/03/24 12:10 | VY100324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.90 | U | 1.90 | 5.80 | ug/Kg |
| 74-87-3 | Chloromethane | 1.40 | U | 1.40 | 5.80 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.90 | U | 0.90 | 5.80 | ug/Kg |
| 74-83-9 | Bromomethane | 1.20 | U | 1.20 | 5.80 | ug/Kg |
| 75-00-3 | Chloroethane | 1.20 | U | 1.20 | 5.80 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.10 | U | 1.10 | 5.80 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.20 | U | 1.20 | 5.80 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.91 | U | 0.91 | 5.80 | ug/Kg |
| 67-64-1 | Acetone | 7.30 | U | 7.30 | 29.1 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.50 | U | 1.50 | 5.80 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.78 | U | 0.78 | 5.80 | ug/Kg |
| 79-20-9 | Methyl Acetate | 2.10 | U | 2.10 | 5.80 | ug/Kg |
| 75-09-2 | Methylene Chloride | 4.00 | U | 4.00 | 11.7 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.98 | U | 0.98 | 5.80 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.73 | U | 0.73 | 5.80 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.80 | U | 0.80 | 5.80 | ug/Kg |
| 78-93-3 | 2-Butanone | 6.60 | U | 6.60 | 29.1 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.00 | U | 1.00 | 5.80 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.71 | U | 0.71 | 5.80 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.80 | U | 2.80 | 5.80 | ug/Kg |
| 67-66-3 | Chloroform | 0.78 | U | 0.78 | 5.80 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.91 | U | 0.91 | 5.80 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.00 | U | 1.00 | 5.80 | ug/Kg |
| 71-43-2 | Benzene | 0.84 | U | 0.84 | 5.80 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.71 | U | 0.71 | 5.80 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.87 | U | 0.87 | 5.80 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.77 | U | 0.77 | 5.80 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.65 | U | 0.65 | 5.80 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.10 | U | 5.10 | 29.1 | ug/Kg |
| 108-88-3 | Toluene | 0.78 | U | 0.78 | 5.80 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain AveRE | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03RE | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 86 |
| Sample Wt/Vol: | 4.99 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY019780.D | 1 | | 10/03/24 12:10 | VY100324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.70 | U | 0.70 | 5.80 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.66 | U | 0.66 | 5.80 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.98 | U | 0.98 | 5.80 | ug/Kg |
| 591-78-6 | 2-Hexanone | 5.60 | U | 5.60 | 29.1 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.76 | U | 0.76 | 5.80 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.92 | U | 0.92 | 5.80 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.00 | U | 1.00 | 5.80 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.86 | U | 0.86 | 5.80 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.72 | U | 0.72 | 5.80 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.60 | U | 1.60 | 11.7 | ug/Kg |
| 95-47-6 | o-Xylene | 0.82 | U | 0.82 | 5.80 | ug/Kg |
| 100-42-5 | Styrene | 0.70 | U | 0.70 | 5.80 | ug/Kg |
| 75-25-2 | Bromoform | 0.94 | U | 0.94 | 5.80 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.78 | U | 0.78 | 5.80 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.30 | U | 1.30 | 5.80 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.86 | U | 0.86 | 5.80 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.93 | U | 0.93 | 5.80 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.69 | U | 0.69 | 5.80 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1.80 | 5.80 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.92 | U | 0.92 | 5.80 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.91 | U | 0.91 | 5.80 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.2 | | 50 - 163 | 124% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 57.0 | | 54 - 147 | 114% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.2 | | 58 - 134 | 108% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 40.5 | | 29 - 146 | 81% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 82800 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 150000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 119000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 38500 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain AveRE | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03RE | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 86 |
| Sample Wt/Vol: | 4.99 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY019780.D | 1 | | 10/03/24 12:10 | VY100324 |

| 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

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| P4258-03 | Chamberlain Ave | 1,2-Dichloroethane-d4 | 50 | 52.8 | 106 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 53.2 | 106 | 54 | 147 |
| | | Toluene-d8 | 50 | 53.5 | 107 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 37.7 | 75 | 29 | 146 |
| P4258-03RE | Chamberlain AveRE | 1,2-Dichloroethane-d4 | 50 | 62.2 | 124 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 57.0 | 114 | 54 | 147 |
| | | Toluene-d8 | 50 | 54.2 | 108 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 40.5 | 81 | 29 | 146 |
| VY1002SBL01 | VY1002SBL01 | 1,2-Dichloroethane-d4 | 50 | 63.4 | 127 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 55.5 | 111 | 54 | 147 |
| | | Toluene-d8 | 50 | 56.5 | 113 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 46.1 | 92 | 29 | 146 |
| VY1002SBS02 | VY1002SBS02 | 1,2-Dichloroethane-d4 | 50 | 59.7 | 119 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 54.0 | 108 | 54 | 147 |
| | | Toluene-d8 | 50 | 52.1 | 104 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 49.7 | 99 | 29 | 146 |
| VY1002SBSD02 | VY1002SBSD02 | 1,2-Dichloroethane-d4 | 50 | 55.1 | 110 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 50.5 | 101 | 54 | 147 |
| | | Toluene-d8 | 50 | 49.1 | 98 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 46.1 | 92 | 29 | 146 |
| VY1003SBL01 | VY1003SBL01 | 1,2-Dichloroethane-d4 | 50 | 61.3 | 123 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 55.4 | 111 | 54 | 147 |
| | | Toluene-d8 | 50 | 56.9 | 114 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 46.3 | 93 | 29 | 146 |
| VY1003SBS01 | VY1003SBS01 | 1,2-Dichloroethane-d4 | 50 | 60.2 | 120 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 56.9 | 114 | 54 | 147 |
| | | Toluene-d8 | 50 | 55.6 | 111 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 52.5 | 105 | 29 | 146 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8260D **Datafile :** VY019769.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1002SBS02 | Dichlorodifluoromethane | 20 | 20.4 | ug/Kg | 102 | | | 64 | 136 | |
| | Chloromethane | 20 | 19.3 | ug/Kg | 97 | | | 70 | 130 | |
| | Vinyl chloride | 20 | 20.6 | ug/Kg | 103 | | | 72 | 129 | |
| | Bromomethane | 20 | 23.1 | ug/Kg | 116 | | | 58 | 141 | |
| | Chloroethane | 20 | 21.6 | ug/Kg | 108 | | | 69 | 130 | |
| | Trichlorofluoromethane | 20 | 21.4 | ug/Kg | 107 | | | 69 | 134 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.8 | ug/Kg | 109 | | | 81 | 123 | |
| | 1,1-Dichloroethene | 20 | 18.9 | ug/Kg | 95 | | | 79 | 121 | |
| | Acetone | 100 | 130 | ug/Kg | 130 | | | 60 | 131 | |
| | Carbon disulfide | 20 | 12.8 | ug/Kg | 64 | | | 45 | 154 | |
| | Methyl tert-butyl Ether | 20 | 23.1 | ug/Kg | 116 | | | 77 | 129 | |
| | Methyl Acetate | 20 | 22.4 | ug/Kg | 112 | | | 69 | 149 | |
| | Methylene Chloride | 20 | 22.7 | ug/Kg | 114 | | | 56 | 174 | |
| | trans-1,2-Dichloroethene | 20 | 18.7 | ug/Kg | 94 | | | 80 | 123 | |
| | 1,1-Dichloroethane | 20 | 22.4 | ug/Kg | 112 | | | 82 | 123 | |
| | Cyclohexane | 20 | 17.7 | ug/Kg | 89 | | | 76 | 122 | |
| | 2-Butanone | 100 | 120 | ug/Kg | 120 | | | 69 | 131 | |
| | Carbon Tetrachloride | 20 | 20.3 | ug/Kg | 102 | | | 76 | 129 | |
| | cis-1,2-Dichloroethene | 20 | 21.6 | ug/Kg | 108 | | | 82 | 123 | |
| | Bromochloromethane | 20 | 21.5 | ug/Kg | 108 | | | 80 | 127 | |
| | Chloroform | 20 | 23.8 | ug/Kg | 119 | | | 82 | 125 | |
| | 1,1,1-Trichloroethane | 20 | 22.5 | ug/Kg | 113 | | | 80 | 126 | |
| | Methylcyclohexane | 20 | 17.4 | ug/Kg | 87 | | | 77 | 123 | |
| | Benzene | 20 | 20.3 | ug/Kg | 102 | | | 84 | 121 | |
| | 1,2-Dichloroethane | 20 | 23.0 | ug/Kg | 115 | | | 81 | 126 | |
| | Trichloroethene | 20 | 19.5 | ug/Kg | 98 | | | 83 | 122 | |
| | 1,2-Dichloropropane | 20 | 22.3 | ug/Kg | 112 | | | 83 | 122 | |
| | Bromodichloromethane | 20 | 22.7 | ug/Kg | 114 | | | 82 | 123 | |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/Kg | 110 | | | 70 | 135 | |
| | Toluene | 20 | 20.5 | ug/Kg | 103 | | | 83 | 122 | |
| | t-1,3-Dichloropropene | 20 | 20.7 | ug/Kg | 104 | | | 78 | 124 | |
| | cis-1,3-Dichloropropene | 20 | 20.5 | ug/Kg | 103 | | | 81 | 122 | |
| | 1,1,2-Trichloroethane | 20 | 23.0 | ug/Kg | 115 | | | 82 | 125 | |
| | 2-Hexanone | 100 | 110 | ug/Kg | 110 | | | 66 | 138 | |
| | Dibromochloromethane | 20 | 21.7 | ug/Kg | 109 | | | 79 | 125 | |
| | 1,2-Dibromoethane | 20 | 21.6 | ug/Kg | 108 | | | 80 | 125 | |
| | Tetrachloroethene | 20 | 20.7 | ug/Kg | 104 | | | 83 | 125 | |
| | Chlorobenzene | 20 | 21.5 | ug/Kg | 108 | | | 84 | 122 | |
| | Ethyl Benzene | 20 | 21.1 | ug/Kg | 106 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 40.9 | ug/Kg | 102 | | | 83 | 124 | |
| | o-Xylene | 20 | 20.8 | ug/Kg | 104 | | | 83 | 123 | |
| | Styrene | 20 | 21.0 | ug/Kg | 105 | | | 82 | 124 | |
| | Bromoform | 20 | 21.0 | ug/Kg | 105 | | | 75 | 127 | |
| | Isopropylbenzene | 20 | 21.2 | ug/Kg | 106 | | | 82 | 124 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 23.0 | ug/Kg | 115 | | | 77 | 127 | |
| | 1,3-Dichlorobenzene | 20 | 21.3 | ug/Kg | 106 | | | 83 | 122 | |
| | 1,4-Dichlorobenzene | 20 | 21.3 | ug/Kg | 106 | | | 84 | 121 | |
| | 1,2-Dichlorobenzene | 20 | 21.5 | ug/Kg | 108 | | | 83 | 124 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8260D **Datafile :** VY019769.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1002SBS02 | 1,2-Dibromo-3-Chloropropane | 20 | 21.4 | ug/Kg | 107 | | | 66 | 134 | |
| | 1,2,4-Trichlorobenzene | 20 | 19.0 | ug/Kg | 95 | | | 78 | 127 | |
| | 1,2,3-Trichlorobenzene | 20 | 18.9 | ug/Kg | 95 | | | 70 | 137 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8260D **Datafile :** VY019770.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1002SBSD02 | Dichlorodifluoromethane | 20 | 21.0 | ug/Kg | 105 | 3 | | 64 | 136 | 20 |
| | Chloromethane | 20 | 18.6 | ug/Kg | 93 | 4 | | 70 | 130 | 20 |
| | Vinyl chloride | 20 | 20.3 | ug/Kg | 102 | 1 | | 72 | 129 | 20 |
| | Bromomethane | 20 | 22.8 | ug/Kg | 114 | 2 | | 58 | 141 | 20 |
| | Chloroethane | 20 | 23.3 | ug/Kg | 117 | 8 | | 69 | 130 | 20 |
| | Trichlorofluoromethane | 20 | 21.6 | ug/Kg | 108 | 1 | | 69 | 134 | 20 |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.8 | ug/Kg | 109 | 0 | | 81 | 123 | 20 |
| | 1,1-Dichloroethene | 20 | 19.1 | ug/Kg | 96 | 1 | | 79 | 121 | 20 |
| | Acetone | 100 | 120 | ug/Kg | 120 | 8 | | 60 | 131 | 20 |
| | Carbon disulfide | 20 | 12.8 | ug/Kg | 64 | 0 | | 45 | 154 | 20 |
| | Methyl tert-butyl Ether | 20 | 22.9 | ug/Kg | 115 | 1 | | 77 | 129 | 20 |
| | Methyl Acetate | 20 | 22.0 | ug/Kg | 110 | 2 | | 69 | 149 | 20 |
| | Methylene Chloride | 20 | 24.3 | ug/Kg | 121 | 6 | | 56 | 174 | 20 |
| | trans-1,2-Dichloroethene | 20 | 19.1 | ug/Kg | 96 | 2 | | 80 | 123 | 20 |
| | 1,1-Dichloroethane | 20 | 22.8 | ug/Kg | 114 | 2 | | 82 | 123 | 20 |
| | Cyclohexane | 20 | 18.1 | ug/Kg | 91 | 2 | | 76 | 122 | 20 |
| | 2-Butanone | 100 | 120 | ug/Kg | 120 | 0 | | 69 | 131 | 20 |
| | Carbon Tetrachloride | 20 | 20.4 | ug/Kg | 102 | 0 | | 76 | 129 | 20 |
| | cis-1,2-Dichloroethene | 20 | 21.9 | ug/Kg | 110 | 2 | | 82 | 123 | 20 |
| | Bromochloromethane | 20 | 23.1 | ug/Kg | 116 | 7 | | 80 | 127 | 20 |
| | Chloroform | 20 | 24.1 | ug/Kg | 121 | 2 | | 82 | 125 | 20 |
| | 1,1,1-Trichloroethane | 20 | 22.5 | ug/Kg | 113 | 0 | | 80 | 126 | 20 |
| | Methylcyclohexane | 20 | 17.6 | ug/Kg | 88 | 1 | | 77 | 123 | 20 |
| | Benzene | 20 | 20.6 | ug/Kg | 103 | 1 | | 84 | 121 | 20 |
| | 1,2-Dichloroethane | 20 | 22.6 | ug/Kg | 113 | 2 | | 81 | 126 | 20 |
| | Trichloroethene | 20 | 20.0 | ug/Kg | 100 | 2 | | 83 | 122 | 20 |
| | 1,2-Dichloropropane | 20 | 22.2 | ug/Kg | 111 | 1 | | 83 | 122 | 20 |
| | Bromodichloromethane | 20 | 22.9 | ug/Kg | 115 | 1 | | 82 | 123 | 20 |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/Kg | 110 | 0 | | 70 | 135 | 20 |
| | Toluene | 20 | 20.9 | ug/Kg | 104 | 1 | | 83 | 122 | 20 |
| | t-1,3-Dichloropropene | 20 | 20.5 | ug/Kg | 103 | 1 | | 78 | 124 | 20 |
| | cis-1,3-Dichloropropene | 20 | 20.5 | ug/Kg | 103 | 0 | | 81 | 122 | 20 |
| | 1,1,2-Trichloroethane | 20 | 22.9 | ug/Kg | 115 | 0 | | 82 | 125 | 20 |
| | 2-Hexanone | 100 | 110 | ug/Kg | 110 | 0 | | 66 | 138 | 20 |
| | Dibromochloromethane | 20 | 22.1 | ug/Kg | 111 | 2 | | 79 | 125 | 20 |
| | 1,2-Dibromoethane | 20 | 21.1 | ug/Kg | 106 | 2 | | 80 | 125 | 20 |
| | Tetrachloroethene | 20 | 20.6 | ug/Kg | 103 | 1 | | 83 | 125 | 20 |
| | Chlorobenzene | 20 | 22.1 | ug/Kg | 111 | 3 | | 84 | 122 | 20 |
| | Ethyl Benzene | 20 | 21.9 | ug/Kg | 110 | 4 | | 82 | 124 | 20 |
| | m/p-Xylenes | 40 | 42.4 | ug/Kg | 106 | 4 | | 83 | 124 | 20 |
| | o-Xylene | 20 | 21.4 | ug/Kg | 107 | 3 | | 83 | 123 | 20 |
| | Styrene | 20 | 21.6 | ug/Kg | 108 | 3 | | 82 | 124 | 20 |
| | Bromoform | 20 | 21.1 | ug/Kg | 106 | 1 | | 75 | 127 | 20 |
| | Isopropylbenzene | 20 | 22.7 | ug/Kg | 114 | 7 | | 82 | 124 | 20 |
| | 1,1,2,2-Tetrachloroethane | 20 | 23.9 | ug/Kg | 119 | 3 | | 77 | 127 | 20 |
| | 1,3-Dichlorobenzene | 20 | 22.9 | ug/Kg | 115 | 8 | | 83 | 122 | 20 |
| | 1,4-Dichlorobenzene | 20 | 22.9 | ug/Kg | 115 | 8 | | 84 | 121 | 20 |
| | 1,2-Dichlorobenzene | 20 | 22.8 | ug/Kg | 114 | 5 | | 83 | 124 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8260D **Datafile :** VY019770.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1002SBSD02 | 1,2-Dibromo-3-Chloropropane | 20 | 22.6 | ug/Kg | 113 | 5 | | 66 | 134 | 20 |
| | 1,2,4-Trichlorobenzene | 20 | 20.1 | ug/Kg | 101 | 6 | | 78 | 127 | 20 |
| | 1,2,3-Trichlorobenzene | 20 | 19.7 | ug/Kg | 99 | 4 | | 70 | 137 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8260D **Datafile :** VY019778.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1003SBS01 | Dichlorodifluoromethane | 20 | 20.3 | ug/Kg | 102 | | | 64 | 136 | |
| | Chloromethane | 20 | 17.2 | ug/Kg | 86 | | | 70 | 130 | |
| | Vinyl chloride | 20 | 18.8 | ug/Kg | 94 | | | 72 | 129 | |
| | Bromomethane | 20 | 21.7 | ug/Kg | 109 | | | 58 | 141 | |
| | Chloroethane | 20 | 21.0 | ug/Kg | 105 | | | 69 | 130 | |
| | Trichlorofluoromethane | 20 | 20.6 | ug/Kg | 103 | | | 69 | 134 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.4 | ug/Kg | 107 | | | 81 | 123 | |
| | 1,1-Dichloroethene | 20 | 18.5 | ug/Kg | 93 | | | 79 | 121 | |
| | Acetone | 100 | 130 | ug/Kg | 130 | | | 60 | 131 | |
| | Carbon disulfide | 20 | 11.8 | ug/Kg | 59 | | | 45 | 154 | |
| | Methyl tert-butyl Ether | 20 | 21.1 | ug/Kg | 106 | | | 77 | 129 | |
| | Methyl Acetate | 20 | 18.0 | ug/Kg | 90 | | | 69 | 149 | |
| | Methylene Chloride | 20 | 19.9 | ug/Kg | 100 | | | 56 | 174 | |
| | trans-1,2-Dichloroethene | 20 | 18.4 | ug/Kg | 92 | | | 80 | 123 | |
| | 1,1-Dichloroethane | 20 | 21.8 | ug/Kg | 109 | | | 82 | 123 | |
| | Cyclohexane | 20 | 17.4 | ug/Kg | 87 | | | 76 | 122 | |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | | | 69 | 131 | |
| | Carbon Tetrachloride | 20 | 19.9 | ug/Kg | 100 | | | 76 | 129 | |
| | cis-1,2-Dichloroethene | 20 | 20.9 | ug/Kg | 104 | | | 82 | 123 | |
| | Bromochloromethane | 20 | 21.1 | ug/Kg | 106 | | | 80 | 127 | |
| | Chloroform | 20 | 22.8 | ug/Kg | 114 | | | 82 | 125 | |
| | 1,1,1-Trichloroethane | 20 | 22.0 | ug/Kg | 110 | | | 80 | 126 | |
| | Methylcyclohexane | 20 | 16.9 | ug/Kg | 85 | | | 77 | 123 | |
| | Benzene | 20 | 20.1 | ug/Kg | 101 | | | 84 | 121 | |
| | 1,2-Dichloroethane | 20 | 21.5 | ug/Kg | 108 | | | 81 | 126 | |
| | Trichloroethene | 20 | 19.3 | ug/Kg | 97 | | | 83 | 122 | |
| | 1,2-Dichloropropane | 20 | 21.2 | ug/Kg | 106 | | | 83 | 122 | |
| | Bromodichloromethane | 20 | 21.8 | ug/Kg | 109 | | | 82 | 123 | |
| | 4-Methyl-2-Pentanone | 100 | 96.9 | ug/Kg | 97 | | | 70 | 135 | |
| | Toluene | 20 | 19.7 | ug/Kg | 99 | | | 83 | 122 | |
| | t-1,3-Dichloropropene | 20 | 19.7 | ug/Kg | 99 | | | 78 | 124 | |
| | cis-1,3-Dichloropropene | 20 | 19.5 | ug/Kg | 98 | | | 81 | 122 | |
| | 1,1,2-Trichloroethane | 20 | 21.4 | ug/Kg | 107 | | | 82 | 125 | |
| | 2-Hexanone | 100 | 98.3 | ug/Kg | 98 | | | 66 | 138 | |
| | Dibromochloromethane | 20 | 20.6 | ug/Kg | 103 | | | 79 | 125 | |
| | 1,2-Dibromoethane | 20 | 19.2 | ug/Kg | 96 | | | 80 | 125 | |
| | Tetrachloroethene | 20 | 18.8 | ug/Kg | 94 | | | 83 | 125 | |
| | Chlorobenzene | 20 | 21.1 | ug/Kg | 106 | | | 84 | 122 | |
| | Ethyl Benzene | 20 | 20.7 | ug/Kg | 104 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 40.4 | ug/Kg | 101 | | | 83 | 124 | |
| | o-Xylene | 20 | 20.6 | ug/Kg | 103 | | | 83 | 123 | |
| | Styrene | 20 | 20.4 | ug/Kg | 102 | | | 82 | 124 | |
| | Bromoform | 20 | 19.1 | ug/Kg | 96 | | | 75 | 127 | |
| | Isopropylbenzene | 20 | 22.1 | ug/Kg | 111 | | | 82 | 124 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 21.5 | ug/Kg | 108 | | | 77 | 127 | |
| | 1,3-Dichlorobenzene | 20 | 21.7 | ug/Kg | 109 | | | 83 | 122 | |
| | 1,4-Dichlorobenzene | 20 | 21.7 | ug/Kg | 109 | | | 84 | 121 | |
| | 1,2-Dichlorobenzene | 20 | 21.6 | ug/Kg | 108 | | | 83 | 124 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8260D **Datafile :** VY019778.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1003SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 19.8 | ug/Kg | 99 | | | 66 | 134 | |
| | 1,2,4-Trichlorobenzene | 20 | 19.3 | ug/Kg | 97 | | | 78 | 127 | |
| | 1,2,3-Trichlorobenzene | 20 | 18.8 | ug/Kg | 94 | | | 70 | 137 | |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1002SBL01

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019757.D Lab Sample ID: VY1002SBL01

Date Analyzed: 10/02/2024 Time Analyzed: 10:13

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 |
|---|---|---|---|
| Chamberlain Ave | P4258-03 | VY019765.D | 10/02/2024 |
| VY1002SBS02 | VY1002SBS02 | VY019769.D | 10/02/2024 |
| VY1002SBSD02 | VY1002SBSD02 | VY019770.D | 10/02/2024 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1003SBL01

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019777.D Lab Sample ID: VY1003SBL01

Date Analyzed: 10/03/2024 Time Analyzed: 10:17

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 |
|---|---|---|---|
| VY1003SBS01 | VY1003SBS01 | VY019778.D | 10/03/2024 |
| Chamberlain AveRE | P4258-03RE | VY019780.D | 10/03/2024 |

COMMENTS:

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019453.D BFB Injection Date: 09/09/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:20

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 | 18.8 |
| 75 | 30.0 - 60.0% of mass 95 | 50.1 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 0.7 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 73.9 |
| 175 | 5.0 - 9.0% of mass 174 | 5.5 ( 7.5 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 70.3 ( 95.1 ) 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 |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VY019454.D | 09/09/2024 | 09:52 |
| VSTDICC010 | VSTDICC010 | VY019455.D | 09/09/2024 | 10:15 |
| VSTDICC020 | VSTDICC020 | VY019456.D | 09/09/2024 | 10:44 |
| VSTDICCC050 | VSTDICCC050 | VY019457.D | 09/09/2024 | 11:07 |
| VSTDICC100 | VSTDICC100 | VY019458.D | 09/09/2024 | 11:29 |
| VSTDICC150 | VSTDICC150 | VY019459.D | 09/09/2024 | 11:53 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019755.D BFB Injection Date: 10/02/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:37

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 | 20.9 |
| 75 | 30.0 - 60.0% of mass 95 | 54.8 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.7 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 70.4 |
| 175 | 5.0 - 9.0% of mass 174 | 5.1 ( 7.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 67.3 ( 95.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.5 ( 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 | VY019756.D | 10/02/2024 | 09:39 |
| VY1002SBL01 | VY1002SBL01 | VY019757.D | 10/02/2024 | 10:13 |
| Chamberlain Ave | P4258-03 | VY019765.D | 10/02/2024 | 15:23 |
| VY1002SBS02 | VY1002SBS02 | VY019769.D | 10/02/2024 | 16:56 |
| VY1002SBSD02 | VY1002SBSD02 | VY019770.D | 10/02/2024 | 17:19 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019775.D BFB Injection Date: 10/03/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:34

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 | 20.4 |
| 75 | 30.0 - 60.0% of mass 95 | 53.5 |
| 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 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 74.5 |
| 175 | 5.0 - 9.0% of mass 174 | 6 ( 8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 72.5 ( 97.3 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.8 ( 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 | VY019776.D | 10/03/2024 | 09:44 |
| VY1003SBL01 | VY1003SBL01 | VY019777.D | 10/03/2024 | 10:17 |
| VY1003SBS01 | VY1003SBS01 | VY019778.D | 10/03/2024 | 11:01 |
| Chamberlain AveRE | P4258-03RE | VY019780.D | 10/03/2024 | 12:10 |

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019756.D Date Analyzed: 10/02/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:39

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 | 313908 | 7.71 | 532797 | 8.62 | 452211 | 11.41 |
| UPPER LIMIT | 627816 | 8.207 | 1065590 | 9.116 | 904422 | 11.914 |
| LOWER LIMIT | 156954 | 7.207 | 266399 | 8.116 | 226106 | 10.914 |
| EPA SAMPLE NO. | | | | | | |
| Chamberlain Ave | 61958 * | 7.71 | 102249 * | 8.62 | 74657 * | 11.41 |
| VY1002SBL01 | 286214 | 7.71 | 551968 | 8.62 | 482661 | 11.41 |
| VY1002SBS02 | 265847 | 7.71 | 469139 | 8.62 | 394802 | 11.41 |
| VY1002SBSD02 | 278113 | 7.71 | 490887 | 8.62 | 408200 | 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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019756.D Date Analyzed: 10/02/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:39

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

| | IS4 AREA # | | RT # | | | | |
|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 212843 | | 13.346 | | | | |
| UPPER LIMIT | 425686 | | 13.846 | | | | |
| LOWER LIMIT | 106422 | | 12.846 | | | | |
| EPA SAMPLE NO. | | | | | | | |
| Chamberlain Ave | 23916 | * | 13.34 | | | | |
| VY1002SBL01 | 169673 | | 13.35 | | | | |
| VY1002SBS02 | 189008 | | 13.34 | | | | |
| VY1002SBSD02 | 189650 | | 13.34 | | | | |

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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019776.D Date Analyzed: 10/03/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:44

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 | 277386 | 7.71 | 478984 | 8.62 | 402421 | 11.41 |
| UPPER LIMIT | 554772 | 8.213 | 957968 | 9.116 | 804842 | 11.914 |
| LOWER LIMIT | 138693 | 7.213 | 239492 | 8.116 | 201211 | 10.914 |
| EPA SAMPLE NO. | | | | | | |
| Chamberlain AveRE | 82774 * | 7.71 | 150343 * | 8.62 | 119106 * | 11.41 |
| VY1003SBL01 | 267988 | 7.71 | 512122 | 8.62 | 450147 | 11.41 |
| VY1003SBS01 | 265491 | 7.71 | 467884 | 8.62 | 391562 | 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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VY019776.D Date Analyzed: 10/03/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:44

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

| | IS4 AREA # | | RT # | | | | |
|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 192886 | | 13.346 | | | | |
| UPPER LIMIT | 385772 | | 13.846 | | | | |
| LOWER LIMIT | 96443 | | 12.846 | | | | |
| EPA SAMPLE NO. | | | | | | | |
| Chamberlain AveRE | 38457 | * | 13.35 | | | | |
| VY1003SBL01 | 160873 | | 13.35 | | | | |
| VY1003SBS01 | 181129 | | 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: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1002SBL01 | SDG No.: | P4258 |
| Lab Sample ID: | VY1002SBL01 | 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 |
|---|---|---|---|---|
| VY019757.D | 1 | | 10/02/24 10:13 | VY100224 |

| 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: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1002SBL01 | SDG No.: | P4258 |
| Lab Sample ID: | VY1002SBL01 | 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 |
|---|---|---|---|---|
| VY019757.D | 1 | | 10/02/24 10:13 | VY100224 |

| 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 | 63.4 | | 50 - 163 | 127% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.5 | | 54 - 147 | 111% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 56.5 | | 58 - 134 | 113% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.1 | | 29 - 146 | 92% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 286000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 552000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 483000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 170000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1002SBL01 | SDG No.: | P4258 |
| Lab Sample ID: | VY1002SBL01 | 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 |
|---|---|---|---|---|
| VY019757.D | 1 | | 10/02/24 10:13 | VY100224 |

| 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: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1003SBL01 | SDG No.: | P4258 |
| Lab Sample ID: | VY1003SBL01 | 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 |
|---|---|---|---|---|
| VY019777.D | 1 | | 10/03/24 10:17 | VY100324 |

| 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: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1003SBL01 | SDG No.: | P4258 |
| Lab Sample ID: | VY1003SBL01 | 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 |
|---|---|---|---|---|
| VY019777.D | 1 | | 10/03/24 10:17 | VY100324 |

| 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 | 61.3 | | 50 - 163 | 123% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.4 | | 54 - 147 | 111% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 56.9 | | 58 - 134 | 114% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.3 | | 29 - 146 | 93% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 268000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 512000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 450000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 161000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1003SBL01 | SDG No.: | P4258 |
| Lab Sample ID: | VY1003SBL01 | 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 |
|---|---|---|---|---|
| VY019777.D | 1 | | 10/03/24 10:17 | VY100324 |

| 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: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1002SBS02 | SDG No.: | P4258 |
| Lab Sample ID: | VY1002SBS02 | 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 |
|---|---|---|---|---|
| VY019769.D | 1 | | 10/02/24 16:56 | VY100224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 20.4 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 19.3 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 20.6 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 23.1 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 21.6 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 21.4 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.8 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 18.9 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 130 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 12.8 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 23.1 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 22.4 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 22.7 | | 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 | 22.4 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 17.7 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 120 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.3 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 21.6 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 21.5 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 23.8 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 22.5 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 17.4 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.3 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 23.0 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.5 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 22.3 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 22.7 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 20.5 | | 0.67 | 5.00 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1002SBS02 | SDG No.: | P4258 |
| Lab Sample ID: | VY1002SBS02 | 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 |
|---|---|---|---|---|
| VY019769.D | 1 | | 10/02/24 16:56 | VY100224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.7 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.5 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 23.0 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 110 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 21.7 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 21.6 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 20.7 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 21.5 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 21.1 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 40.9 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.8 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 21.0 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 21.0 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 21.2 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 23.0 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 21.3 | | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 21.3 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 21.5 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 21.4 | | 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 | 18.9 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 59.7 | | 50 - 163 | 119% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.0 | | 54 - 147 | 108% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.1 | | 58 - 134 | 104% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.7 | | 29 - 146 | 99% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 266000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 469000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 395000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 189000 | 13.34 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1002SBS02 | SDG No.: | P4258 |
| Lab Sample ID: | VY1002SBS02 | 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 |
|---|---|---|---|---|
| VY019769.D | 1 | | 10/02/24 16:56 | VY100224 |

| 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: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1003SBS01 | SDG No.: | P4258 |
| Lab Sample ID: | VY1003SBS01 | 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 |
|---|---|---|---|---|
| VY019778.D | 1 | | 10/03/24 11:01 | VY100324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 20.3 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 17.2 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 18.8 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 21.7 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 21.0 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 20.6 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.4 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 18.5 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 130 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 11.8 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 21.1 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 18.0 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 19.9 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 18.4 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.8 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 17.4 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 19.9 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 20.9 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 21.1 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 22.8 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 22.0 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 16.9 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.1 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 21.5 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.3 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 21.2 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 21.8 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 96.9 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 19.7 | | 0.67 | 5.00 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1003SBS01 | SDG No.: | P4258 |
| Lab Sample ID: | VY1003SBS01 | 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 |
|---|---|---|---|---|
| VY019778.D | 1 | | 10/03/24 11:01 | VY100324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.7 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 19.5 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 21.4 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 98.3 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.6 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 19.2 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 18.8 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 21.1 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.7 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 40.4 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.6 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 20.4 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 19.1 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 22.1 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21.5 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 21.7 | | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 21.7 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 21.6 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.8 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.3 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 18.8 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 60.2 | | 50 - 163 | 120% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 56.9 | | 54 - 147 | 114% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 55.6 | | 58 - 134 | 111% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.5 | | 29 - 146 | 105% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 265000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 468000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 392000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 181000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1003SBS01 | SDG No.: | P4258 |
| Lab Sample ID: | VY1003SBS01 | 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 |
|---|---|---|---|---|
| VY019778.D | 1 | | 10/03/24 11:01 | VY100324 |

| 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: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1002SBSD02 | SDG No.: | P4258 |
| Lab Sample ID: | VY1002SBSD02 | 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 |
|---|---|---|---|---|
| VY019770.D | 1 | | 10/02/24 17:19 | VY100224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 21.0 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 18.6 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 20.3 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 22.8 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 23.3 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 21.6 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.8 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 19.1 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 120 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 12.8 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 22.9 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 22.0 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 24.3 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 19.1 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 22.8 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 18.1 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 120 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.4 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 21.9 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 23.1 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 24.1 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 22.5 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 17.6 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.6 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 22.6 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.0 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 22.2 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 22.9 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 20.9 | | 0.67 | 5.00 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1002SBSD02 | SDG No.: | P4258 |
| Lab Sample ID: | VY1002SBSD02 | 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 |
|---|---|---|---|---|
| VY019770.D | 1 | | 10/02/24 17:19 | VY100224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.5 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.5 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 22.9 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 110 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 22.1 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 21.1 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 20.6 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 22.1 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 21.9 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 42.4 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 21.4 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 21.6 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 21.1 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 22.7 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 23.9 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 22.9 | | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 22.9 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 22.8 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 22.6 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.1 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19.7 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.1 | | 50 - 163 | 110% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.5 | | 54 - 147 | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.1 | | 58 - 134 | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.1 | | 29 - 146 | 92% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 278000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 491000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 408000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 190000 | 13.34 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VY1002SBSD02 | SDG No.: | P4258 |
| Lab Sample ID: | VY1002SBSD02 | 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 |
|---|---|---|---|---|
| VY019770.D | 1 | | 10/02/24 17:19 | VY100224 |

| 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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

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

Heated Purge: (Y/N) Y Calibration Time(s): 09:52 11:53

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

LAB FILE ID: RRF005 = VY019454.D RRF010 = VY019455.D RRF020 = VY019456.D
RRF050 = VY019457.D RRF100 = VY019458.D RRF150 = VY019459.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.375 | 0.371 | 0.373 | 0.265 | 0.248 | 0.264 | 0.316 | 19.8 |
| Chloromethane | 0.456 | 0.454 | 0.442 | 0.392 | 0.357 | 0.380 | 0.414 | 10.3 |
| Vinyl Chloride | 0.451 | 0.466 | 0.476 | 0.447 | 0.409 | 0.435 | 0.447 | 5.2 |
| Bromomethane | 0.255 | 0.278 | 0.273 | 0.283 | 0.269 | 0.291 | 0.275 | 4.6 |
| Chloroethane | 0.300 | 0.303 | 0.299 | 0.297 | 0.270 | 0.286 | 0.292 | 4.3 |
| Trichlorofluoromethane | 0.760 | 0.775 | 0.776 | 0.733 | 0.686 | 0.743 | 0.746 | 4.6 |
| 1,1,2-Trichlorotrifluoroethane | 0.477 | 0.480 | 0.476 | 0.457 | 0.425 | 0.453 | 0.461 | 4.6 |
| 1,1-Dichloroethene | 0.457 | 0.449 | 0.450 | 0.447 | 0.413 | 0.446 | 0.444 | 3.5 |
| Acetone | 0.102 | 0.113 | 0.106 | 0.124 | 0.107 | 0.109 | 0.110 | 6.9 |
| Carbon Disulfide | 1.144 | 1.159 | 1.161 | 1.283 | 1.177 | 1.266 | 1.199 | 5 |
| Methyl tert-butyl Ether | 1.146 | 1.304 | 1.294 | 1.313 | 1.212 | 1.270 | 1.256 | 5.2 |
| Methyl Acetate | 0.285 | 0.314 | 0.279 | 0.345 | 0.283 | 0.290 | 0.299 | 8.5 |
| Methylene Chloride | 0.538 | 0.524 | 0.513 | 0.502 | 0.456 | 0.485 | 0.503 | 5.8 |
| trans-1,2-Dichloroethene | 0.488 | 0.488 | 0.484 | 0.500 | 0.461 | 0.496 | 0.486 | 2.9 |
| 1,1-Dichloroethane | 0.889 | 0.945 | 0.936 | 0.945 | 0.862 | 0.923 | 0.917 | 3.7 |
| Cyclohexane | 0.969 | 0.873 | 0.819 | 0.803 | 0.735 | 0.772 | 0.829 | 10 |
| 2-Butanone | 0.134 | 0.166 | 0.159 | 0.171 | 0.154 | 0.158 | 0.157 | 8.1 |
| Carbon Tetrachloride | 0.440 | 0.451 | 0.441 | 0.437 | 0.408 | 0.433 | 0.435 | 3.4 |
| cis-1,2-Dichloroethene | 0.568 | 0.592 | 0.602 | 0.613 | 0.564 | 0.605 | 0.591 | 3.4 |
| Bromochloromethane | 0.368 | 0.373 | 0.378 | 0.410 | 0.383 | 0.402 | 0.386 | 4.4 |
| Chloroform | 0.909 | 0.952 | 0.954 | 0.967 | 0.885 | 0.947 | 0.936 | 3.4 |
| 1,1,1-Trichloroethane | 0.825 | 0.868 | 0.851 | 0.853 | 0.789 | 0.847 | 0.839 | 3.3 |
| Methylcyclohexane | 0.524 | 0.533 | 0.514 | 0.516 | 0.481 | 0.513 | 0.513 | 3.4 |
| Benzene | 1.169 | 1.235 | 1.211 | 1.212 | 1.118 | 1.184 | 1.188 | 3.5 |
| 1,2-Dichloroethane | 0.297 | 0.336 | 0.325 | 0.330 | 0.307 | 0.324 | 0.320 | 4.7 |
| Trichloroethene | 0.301 | 0.309 | 0.315 | 0.312 | 0.288 | 0.307 | 0.306 | 3.1 |
| 1,2-Dichloropropane | 0.287 | 0.301 | 0.299 | 0.294 | 0.273 | 0.289 | 0.290 | 3.5 |
| Bromodichloromethane | 0.413 | 0.445 | 0.431 | 0.437 | 0.408 | 0.428 | 0.427 | 3.3 |
| 4-Methyl-2-Pentanone | 0.181 | 0.225 | 0.214 | 0.222 | 0.203 | 0.209 | 0.209 | 7.7 |
| Toluene | 0.738 | 0.793 | 0.775 | 0.790 | 0.725 | 0.764 | 0.764 | 3.6 |

* 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.

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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

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

Heated Purge: (Y/N) Y Calibration Time(s): 09:52 11:53

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

LAB FILE ID: RRF005 = VY019454.D RRF010 = VY019455.D RRF020 = VY019456.D
RRF050 = VY019457.D RRF100 = VY019458.D RRF150 = VY019459.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.366 | 0.424 | 0.416 | 0.426 | 0.393 | 0.417 | 0.407 | 5.8 |
| cis-1,3-Dichloropropene | 0.444 | 0.491 | 0.485 | 0.492 | 0.453 | 0.478 | 0.474 | 4.3 |
| 1,1,2-Trichloroethane | 0.209 | 0.227 | 0.219 | 0.231 | 0.211 | 0.220 | 0.219 | 4 |
| 2-Hexanone | 0.131 | 0.166 | 0.158 | 0.163 | 0.149 | 0.152 | 0.153 | 8.2 |
| Dibromochloromethane | 0.260 | 0.302 | 0.297 | 0.304 | 0.281 | 0.296 | 0.290 | 5.8 |
| 1,2-Dibromoethane | 0.188 | 0.216 | 0.211 | 0.212 | 0.195 | 0.204 | 0.204 | 5.5 |
| Tetrachloroethene | 0.315 | 0.319 | 0.313 | 0.312 | 0.291 | 0.307 | 0.310 | 3.2 |
| Chlorobenzene | 0.961 | 1.026 | 1.010 | 0.995 | 0.925 | 0.983 | 0.984 | 3.7 |
| Ethyl Benzene | 1.739 | 1.856 | 1.796 | 1.769 | 1.626 | 1.701 | 1.748 | 4.5 |
| m/p-Xylenes | 0.656 | 0.688 | 0.682 | 0.670 | 0.620 | 0.650 | 0.661 | 3.7 |
| o-Xylene | 0.646 | 0.673 | 0.667 | 0.656 | 0.601 | 0.635 | 0.646 | 4 |
| Styrene | 1.061 | 1.143 | 1.126 | 1.112 | 1.031 | 1.073 | 1.091 | 3.9 |
| Bromoform | 0.173 | 0.207 | 0.196 | 0.205 | 0.189 | 0.198 | 0.195 | 6.3 |
| Isopropylbenzene | 3.732 | 3.822 | 3.698 | 3.613 | 3.336 | 3.563 | 3.627 | 4.7 |
| 1,1,2,2-Tetrachloroethane | 0.589 | 0.684 | 0.652 | 0.665 | 0.617 | 0.654 | 0.644 | 5.4 |
| 1,3-Dichlorobenzene | 1.564 | 1.622 | 1.612 | 1.575 | 1.453 | 1.554 | 1.563 | 3.8 |
| 1,4-Dichlorobenzene | 1.554 | 1.596 | 1.594 | 1.565 | 1.452 | 1.548 | 1.551 | 3.4 |
| 1,2-Dichlorobenzene | 1.367 | 1.448 | 1.414 | 1.422 | 1.315 | 1.404 | 1.395 | 3.4 |
| 1,2-Dibromo-3-Chloropropane | 0.099 | 0.116 | 0.105 | 0.110 | 0.103 | 0.110 | 0.107 | 5.5 |
| 1,2,4-Trichlorobenzene | 0.810 | 0.837 | 0.858 | 0.874 | 0.817 | 0.894 | 0.848 | 3.9 |
| 1,2,3-Trichlorobenzene | 0.664 | 0.719 | 0.738 | 0.754 | 0.705 | 0.776 | 0.726 | 5.4 |
| 1,2-Dichloroethane-d4 | 0.420 | 0.462 | 0.466 | 0.485 | 0.465 | 0.480 | 0.463 | 5 |
| Dibromofluoromethane | 0.264 | 0.291 | 0.287 | 0.290 | 0.279 | 0.288 | 0.283 | 3.7 |
| Toluene-d8 | 0.986 | 1.073 | 1.055 | 1.084 | 1.033 | 1.060 | 1.049 | 3.4 |
| 4-Bromofluorobenzene | 0.425 | 0.414 | 0.407 | 0.400 | 0.385 | 0.389 | 0.403 | 3.8 |

* 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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_Y Calibration Date/Time: 10/02/2024 09:39

Lab File ID: VY019756.D Init. Calib. Date(s): 09/09/2024 09/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:52 11:53

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.316 | 0.221 | | -30.06 | 20 |
| Chloromethane | 0.414 | 0.361 | 0.1 | -12.8 | 20 |
| Vinyl Chloride | 0.447 | 0.435 | | -2.68 | 20 |
| Bromomethane | 0.275 | 0.302 | | 9.82 | 20 |
| Chloroethane | 0.292 | 0.309 | | 5.82 | 20 |
| Trichlorofluoromethane | 0.746 | 0.738 | | -1.07 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.461 | 0.456 | | -1.09 | 20 |
| 1,1-Dichloroethene | 0.444 | 0.424 | | -4.51 | 20 |
| Acetone | 0.110 | 0.130 | | 18.18 | 20 |
| Carbon Disulfide | 1.199 | 1.028 | | -14.26 | 20 |
| Methyl tert-butyl Ether | 1.256 | 1.256 | | 0 | 20 |
| Methyl Acetate | 0.299 | 0.298 | | -0.33 | 20 |
| Methylene Chloride | 0.503 | 0.476 | | -5.37 | 20 |
| trans-1,2-Dichloroethene | 0.486 | 0.459 | | -5.56 | 20 |
| 1,1-Dichloroethane | 0.917 | 0.937 | 0.1 | 2.18 | 20 |
| Cyclohexane | 0.829 | 0.753 | | -9.17 | 20 |
| 2-Butanone | 0.157 | 0.168 | | 7.01 | 20 |
| Carbon Tetrachloride | 0.435 | 0.441 | | 1.38 | 20 |
| cis-1,2-Dichloroethene | 0.591 | 0.599 | | 1.35 | 20 |
| Bromochloromethane | 0.386 | 0.472 | | 22.28 | 20 |
| Chloroform | 0.936 | 0.989 | | 5.66 | 20 |
| 1,1,1-Trichloroethane | 0.839 | 0.870 | | 3.69 | 20 |
| Methylcyclohexane | 0.513 | 0.488 | | -4.87 | 20 |
| Benzene | 1.188 | 1.190 | | 0.17 | 20 |
| 1,2-Dichloroethane | 0.320 | 0.341 | | 6.56 | 20 |
| Trichloroethene | 0.306 | 0.298 | | -2.61 | 20 |
| 1,2-Dichloropropane | 0.290 | 0.293 | | 1.03 | 20 |
| Bromodichloromethane | 0.427 | 0.449 | | 5.15 | 20 |
| 4-Methyl-2-Pentanone | 0.209 | 0.216 | | 3.35 | 20 |
| Toluene | 0.764 | 0.762 | | -0.26 | 20 |
| t-1,3-Dichloropropene | 0.407 | 0.626 | | 53.81 | 20 |
| cis-1,3-Dichloropropene | 0.474 | 0.467 | | -1.48 | 20 |
| 1,1,2-Trichloroethane | 0.219 | 0.223 | | 1.83 | 20 |
| 2-Hexanone | 0.153 | 0.155 | | 1.31 | 20 |
| Dibromochloromethane | 0.290 | 0.300 | | 3.45 | 20 |
| 1,2-Dibromoethane | 0.204 | 0.199 | | -2.45 | 20 |
| Tetrachloroethene | 0.310 | 0.298 | | -3.87 | 20 |
| Chlorobenzene | 0.984 | 0.992 | 0.3 | 0.81 | 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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_Y Calibration Date/Time: 10/02/2024 09:39

Lab File ID: VY019756.D Init. Calib. Date(s): 09/09/2024 09/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:52 11:53

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.748 | 1.795 | | 2.69 | 20 |
| m/p-Xylenes | 0.661 | 0.664 | | 0.45 | 20 |
| o-Xylene | 0.646 | 0.644 | | -0.31 | 20 |
| Styrene | 1.091 | 1.098 | | 0.64 | 20 |
| Bromoform | 0.195 | 0.200 | 0.1 | 2.56 | 20 |
| Isopropylbenzene | 3.627 | 3.705 | | 2.15 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.644 | 0.647 | 0.3 | 0.47 | 20 |
| 1,3-Dichlorobenzene | 1.563 | 1.582 | | 1.22 | 20 |
| 1,4-Dichlorobenzene | 1.551 | 1.548 | | -0.19 | 20 |
| 1,2-Dichlorobenzene | 1.395 | 1.391 | | -0.29 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.107 | 0.104 | | -2.8 | 20 |
| 1,2,4-Trichlorobenzene | 0.848 | 0.790 | | -6.84 | 20 |
| 1,2,3-Trichlorobenzene | 0.726 | 0.668 | | -7.99 | 20 |
| 1,2-Dichloroethane-d4 | 0.463 | 0.537 | | 15.98 | 20 |
| Dibromofluoromethane | 0.283 | 0.319 | | 12.72 | 20 |
| Toluene-d8 | 1.049 | 1.151 | | 9.72 | 20 |
| 4-Bromofluorobenzene | 0.403 | 0.427 | | 5.95 | 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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_Y Calibration Date/Time: 10/03/2024 09:44

Lab File ID: VY019776.D Init. Calib. Date(s): 09/09/2024 09/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:52 11:53

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.316 | 0.225 | | -28.8 | 20 |
| Chloromethane | 0.414 | 0.374 | 0.1 | -9.66 | 20 |
| Vinyl Chloride | 0.447 | 0.449 | | 0.45 | 20 |
| Bromomethane | 0.275 | 0.313 | | 13.82 | 20 |
| Chloroethane | 0.292 | 0.328 | | 12.33 | 20 |
| Trichlorofluoromethane | 0.746 | 0.774 | | 3.75 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.461 | 0.483 | | 4.77 | 20 |
| 1,1-Dichloroethene | 0.444 | 0.440 | | -0.9 | 20 |
| Acetone | 0.110 | 0.130 | | 18.18 | 20 |
| Carbon Disulfide | 1.199 | 1.061 | | -11.51 | 20 |
| Methyl tert-butyl Ether | 1.256 | 1.291 | | 2.79 | 20 |
| Methyl Acetate | 0.299 | 0.295 | | -1.34 | 20 |
| Methylene Chloride | 0.503 | 0.493 | | -1.99 | 20 |
| trans-1,2-Dichloroethene | 0.486 | 0.487 | | 0.21 | 20 |
| 1,1-Dichloroethane | 0.917 | 0.988 | 0.1 | 7.74 | 20 |
| Cyclohexane | 0.829 | 0.771 | | -7 | 20 |
| 2-Butanone | 0.157 | 0.168 | | 7.01 | 20 |
| Carbon Tetrachloride | 0.435 | 0.458 | | 5.29 | 20 |
| cis-1,2-Dichloroethene | 0.591 | 0.620 | | 4.91 | 20 |
| Bromochloromethane | 0.386 | 0.486 | | 25.91 | 20 |
| Chloroform | 0.936 | 1.031 | | 10.15 | 20 |
| 1,1,1-Trichloroethane | 0.839 | 0.899 | | 7.15 | 20 |
| Methylcyclohexane | 0.513 | 0.497 | | -3.12 | 20 |
| Benzene | 1.188 | 1.223 | | 2.95 | 20 |
| 1,2-Dichloroethane | 0.320 | 0.348 | | 8.75 | 20 |
| Trichloroethene | 0.306 | 0.310 | | 1.31 | 20 |
| 1,2-Dichloropropane | 0.290 | 0.304 | | 4.83 | 20 |
| Bromodichloromethane | 0.427 | 0.457 | | 7.03 | 20 |
| 4-Methyl-2-Pentanone | 0.209 | 0.207 | | -0.96 | 20 |
| Toluene | 0.764 | 0.792 | | 3.66 | 20 |
| t-1,3-Dichloropropene | 0.407 | 0.408 | | 0.25 | 20 |
| cis-1,3-Dichloropropene | 0.474 | 0.483 | | 1.9 | 20 |
| 1,1,2-Trichloroethane | 0.219 | 0.227 | | 3.65 | 20 |
| 2-Hexanone | 0.153 | 0.149 | | -2.61 | 20 |
| Dibromochloromethane | 0.290 | 0.294 | | 1.38 | 20 |
| 1,2-Dibromoethane | 0.204 | 0.201 | | -1.47 | 20 |
| Tetrachloroethene | 0.310 | 0.310 | | 0 | 20 |
| Chlorobenzene | 0.984 | 1.038 | 0.3 | 5.49 | 20 |

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_Y Calibration Date/Time: 10/03/2024 09:44

Lab File ID: VY019776.D Init. Calib. Date(s): 09/09/2024 09/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:52 11:53

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.748 | 1.867 | | 6.81 | 20 |
| m/p-Xylenes | 0.661 | 0.692 | | 4.69 | 20 |
| o-Xylene | 0.646 | 0.661 | | 2.32 | 20 |
| Styrene | 1.091 | 1.135 | | 4.03 | 20 |
| Bromoform | 0.195 | 0.187 | 0.1 | -4.1 | 20 |
| Isopropylbenzene | 3.627 | 3.780 | | 4.22 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.644 | 0.656 | 0.3 | 1.86 | 20 |
| 1,3-Dichlorobenzene | 1.563 | 1.615 | | 3.33 | 20 |
| 1,4-Dichlorobenzene | 1.551 | 1.587 | | 2.32 | 20 |
| 1,2-Dichlorobenzene | 1.395 | 1.407 | | 0.86 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.107 | 0.098 | | -8.41 | 20 |
| 1,2,4-Trichlorobenzene | 0.848 | 0.801 | | -5.54 | 20 |
| 1,2,3-Trichlorobenzene | 0.726 | 0.670 | | -7.71 | 20 |
| 1,2-Dichloroethane-d4 | 0.463 | 0.528 | | 14.04 | 20 |
| Dibromofluoromethane | 0.283 | 0.307 | | 8.48 | 20 |
| Toluene-d8 | 1.049 | 1.102 | | 5.05 | 20 |
| 4-Bromofluorobenzene | 0.403 | 0.401 | | -0.5 | 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\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

Quant Time: Oct 03 02:03:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

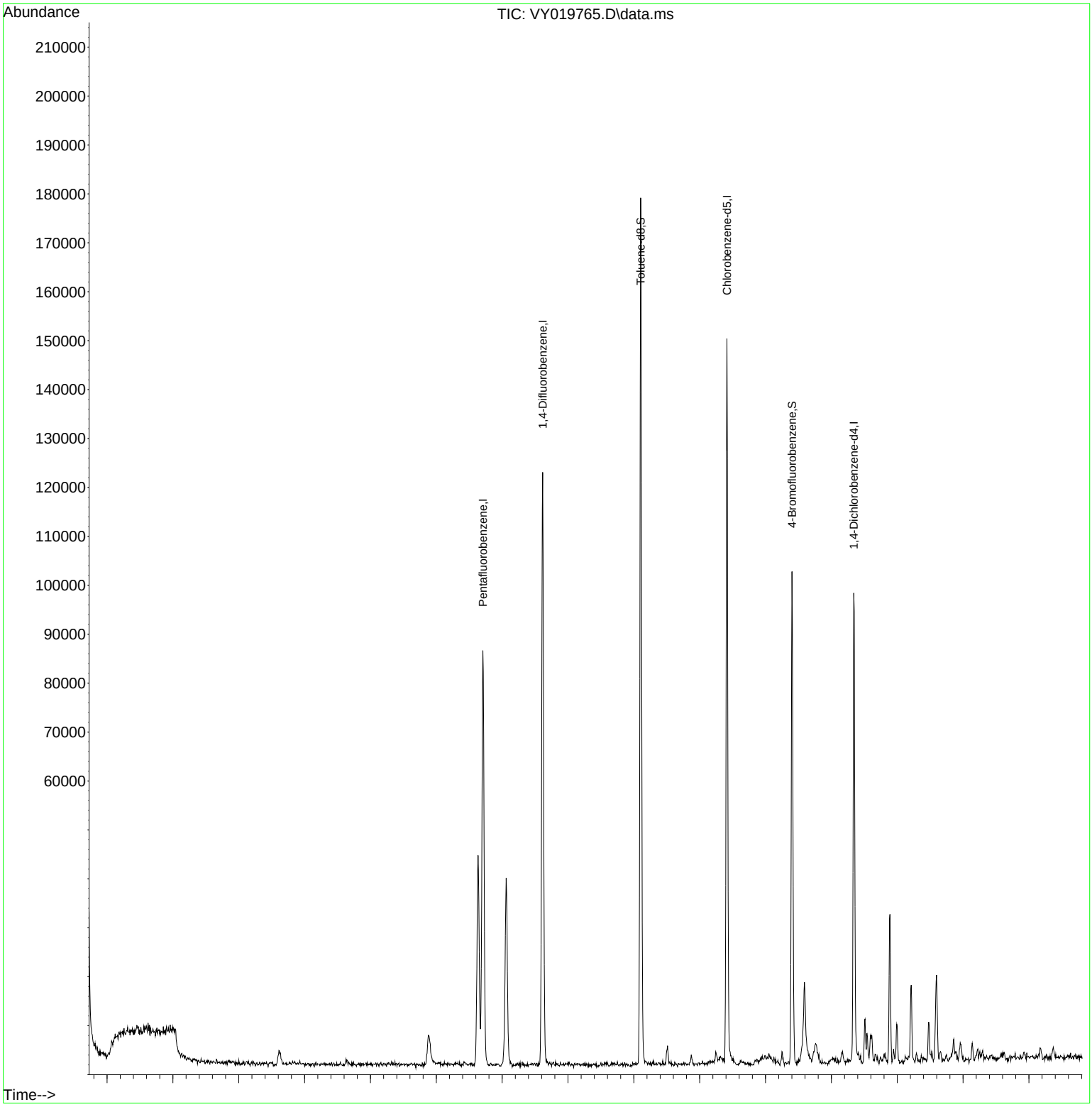
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 61958 | 50.000 | ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 102249 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 74657 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 23916 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 30298 | 52.810 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 105.620% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 30858 | 53.228 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.460% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 114643 | 53.464 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 106.920% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 31049 | 37.658 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 75.320% | | | |
| Target Compounds | | | | | | Qvalue |
| 78) n-propylbenzene | 12.591 | 91 | 8096 | 3.937 | ug/l | 98 |
| 89) n-Butylbenzene | 13.615 | 91 | 3258 | 2.245 | ug/l # | 83 |
| 95) Naphthalene | 15.139 | 128 | 2469 | 3.038 | ug/l # | 92 |

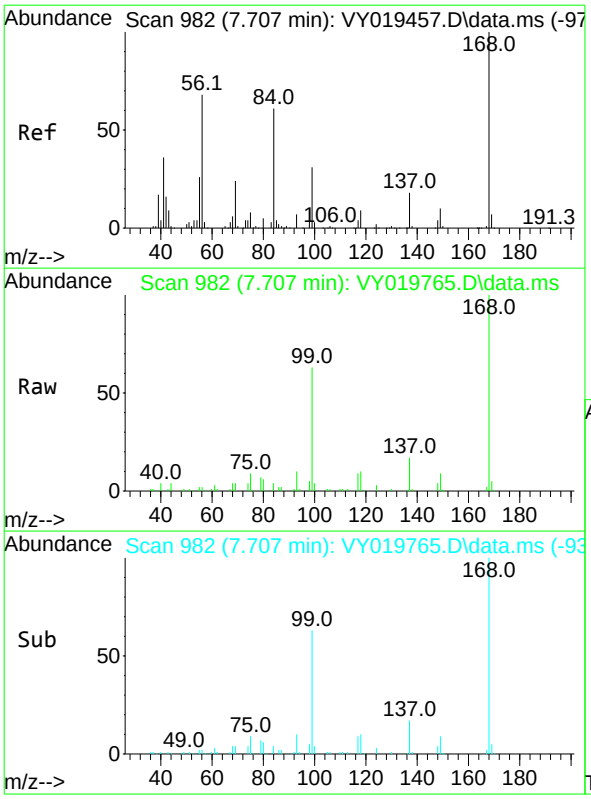
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

Quant Time: Oct 03 02:03:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration



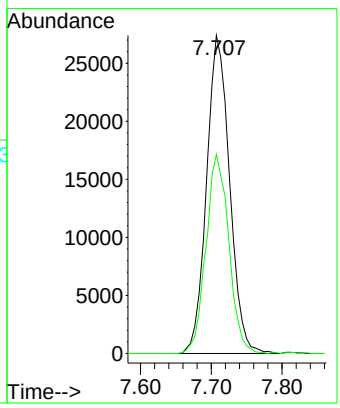


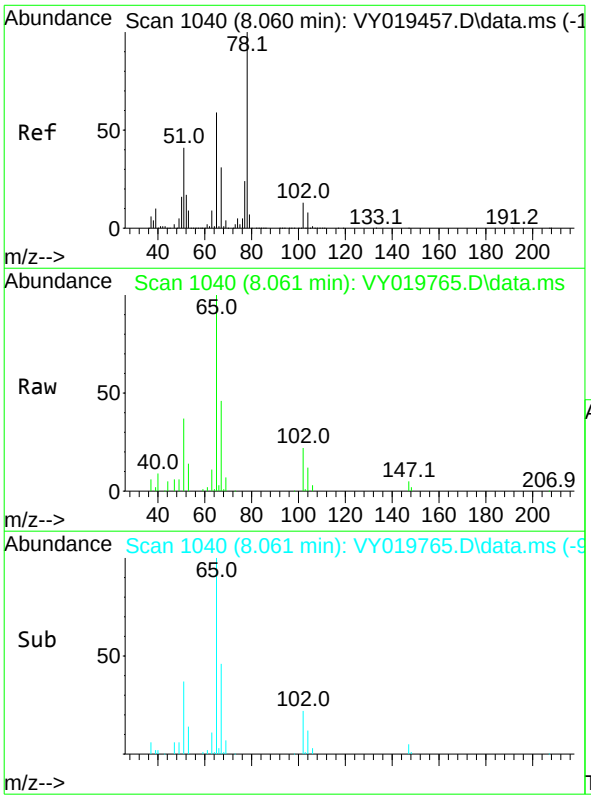

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

Tgt Ion:168 Resp: 61958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.6 | 39.1 | 58.7# |

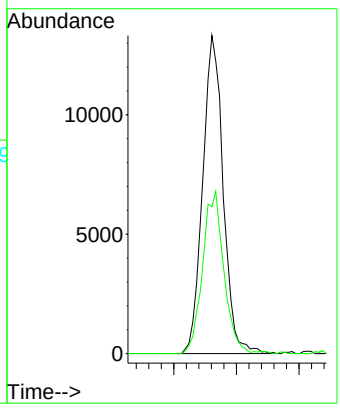


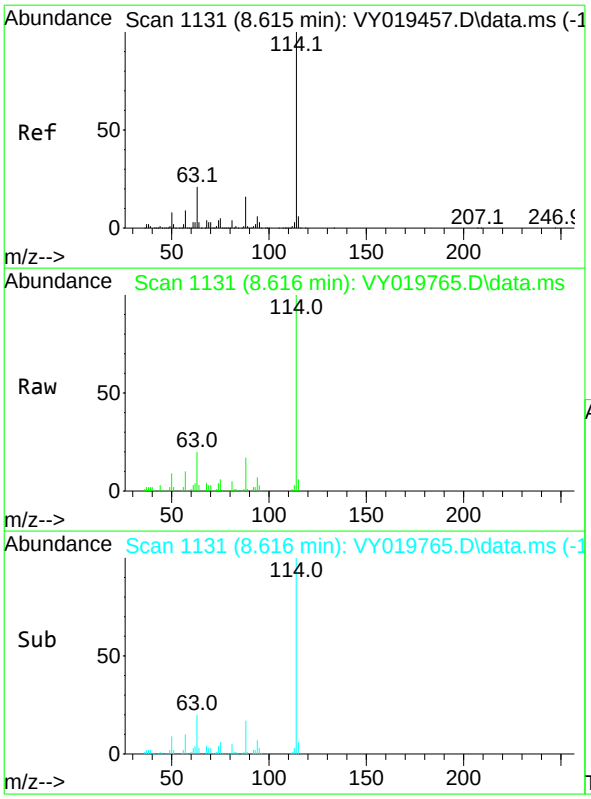

#33
1,2-Dichloroethane-d4
Concen: 52.810 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Tgt Ion: 65 Resp: 30298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.8 | 0.0 | 109.6 |



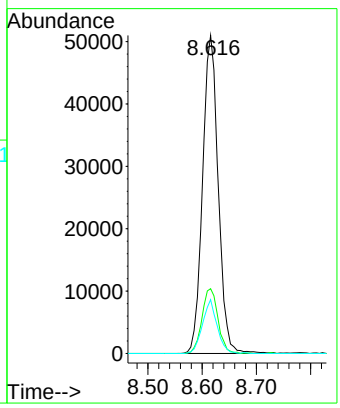
**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

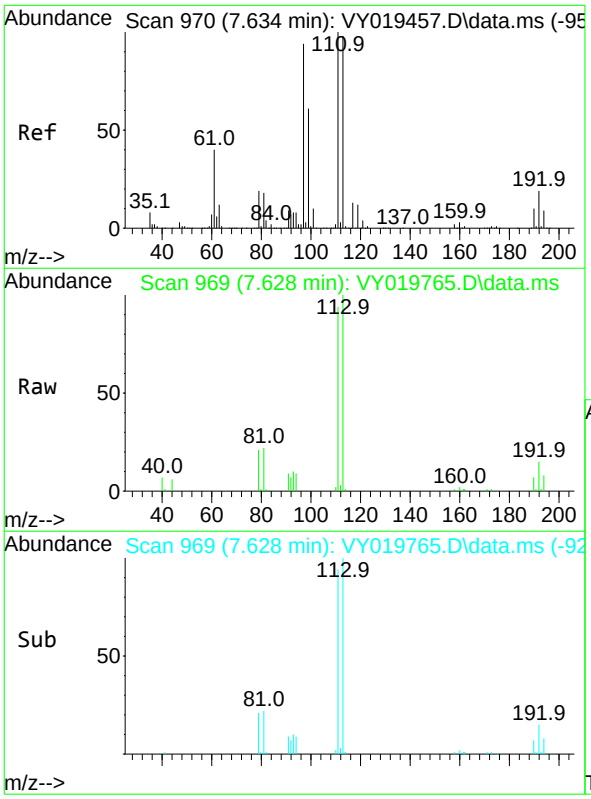



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Tgt Ion:114 Resp: 102249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 35.0 |
| 88 | 16.9 | 0.0 | 27.2 |

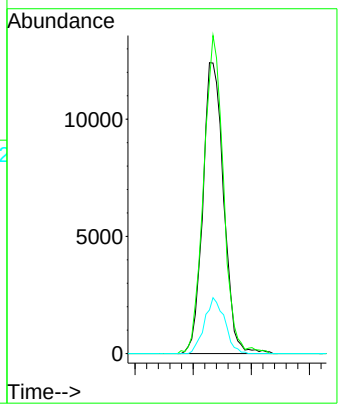


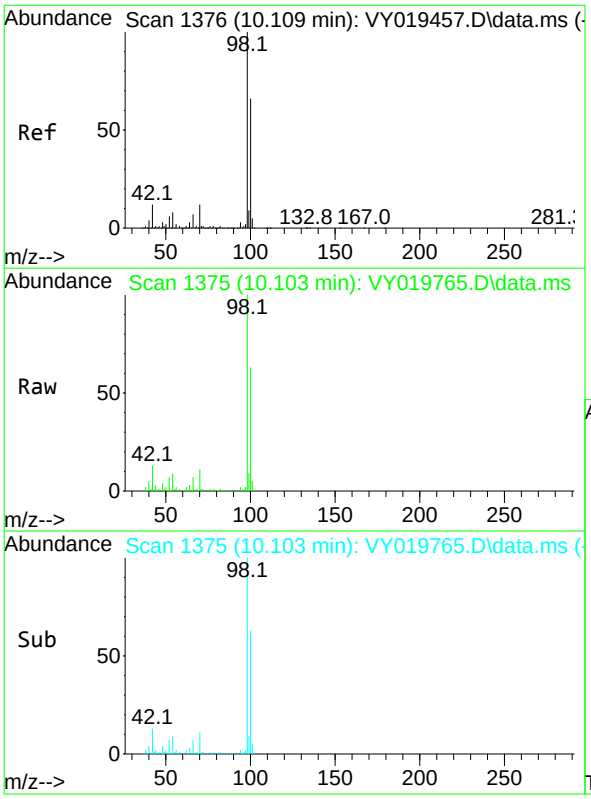




#35
Dibromofluoromethane
Concen: 53.228 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Tgt Ion:113 Resp: 30858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.5 | 82.2 | 123.4 |
| 192 | 18.6 | 15.9 | 23.9 |



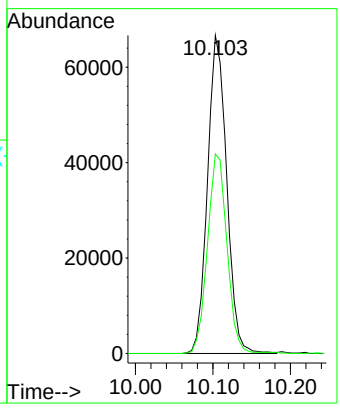


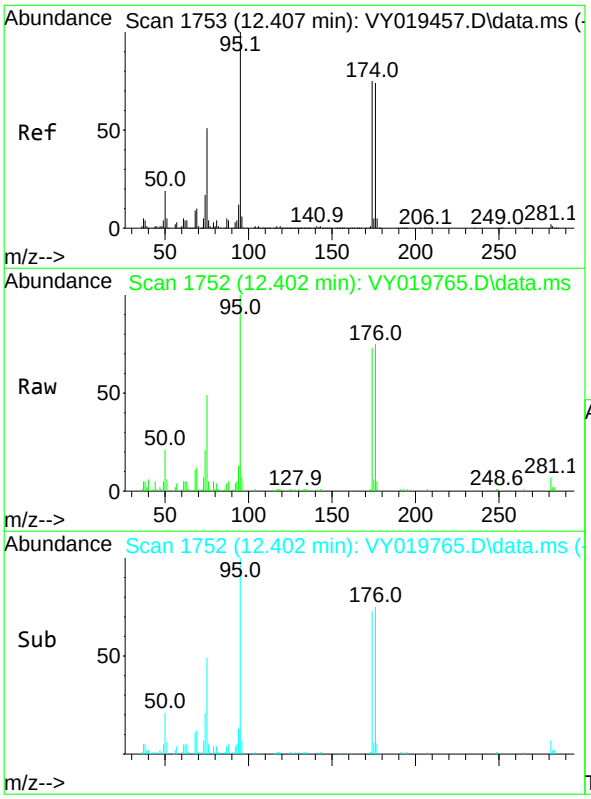

#50
Toluene-d8
Concen: 53.464 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

Tgt Ion: 98 Resp: 114643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 52.0 | 78.0 |

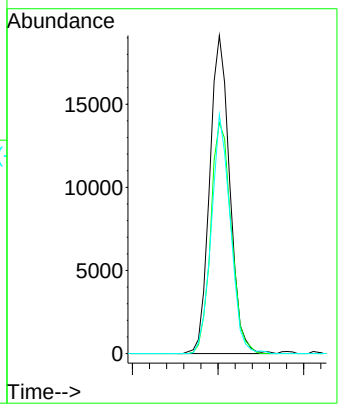



#62
4-Bromofluorobenzene
Concen: 37.658 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

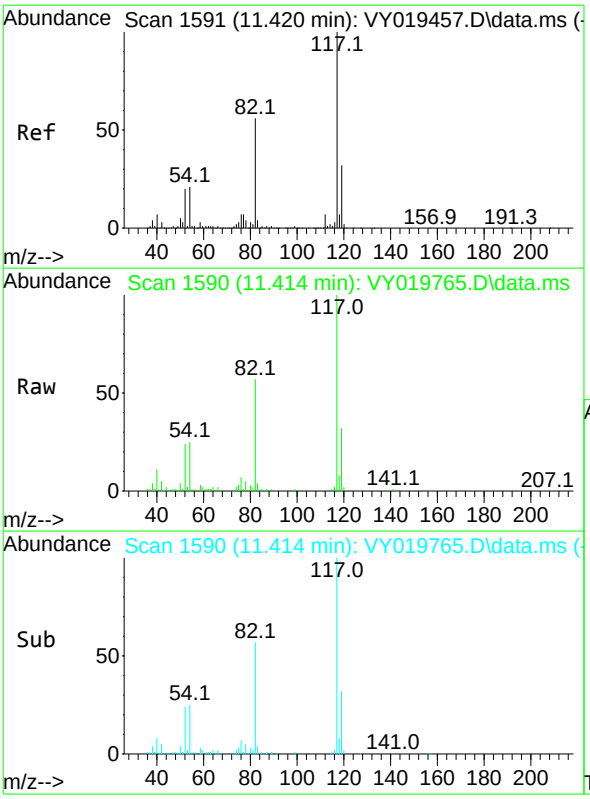
Tgt Ion: 95 Resp: 31049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.5 | 0.0 | 175.6 |
| 176 | 71.5 | 0.0 | 171.4 |



**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

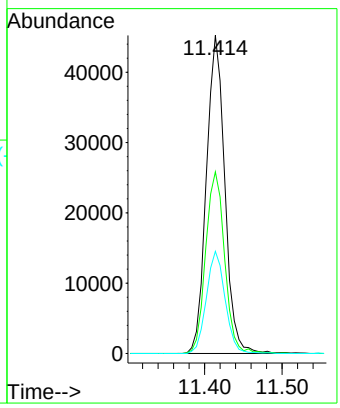


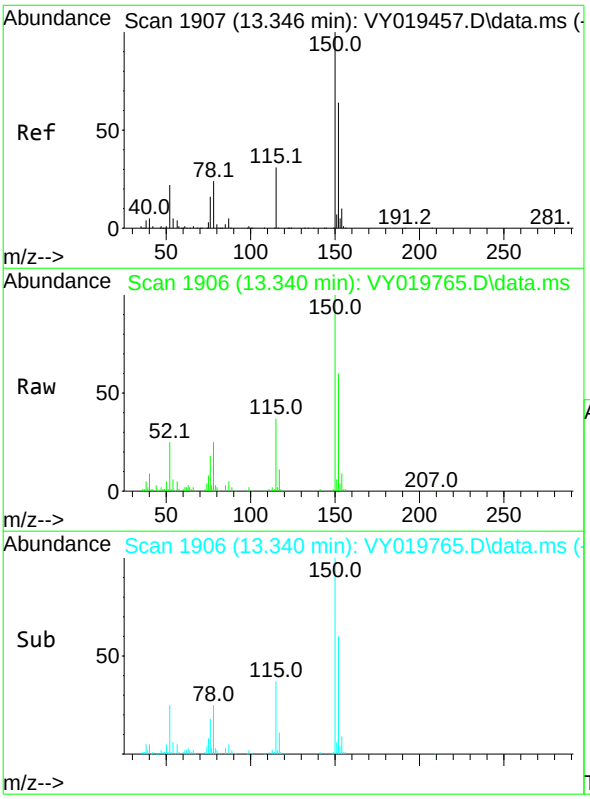



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Tgt Ion:117 Resp: 74657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.1 | 42.4 | 63.6 |
| 119 | 32.1 | 25.9 | 38.9 |

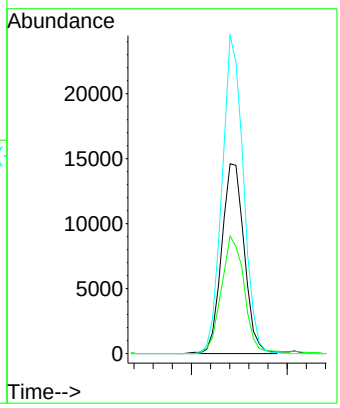


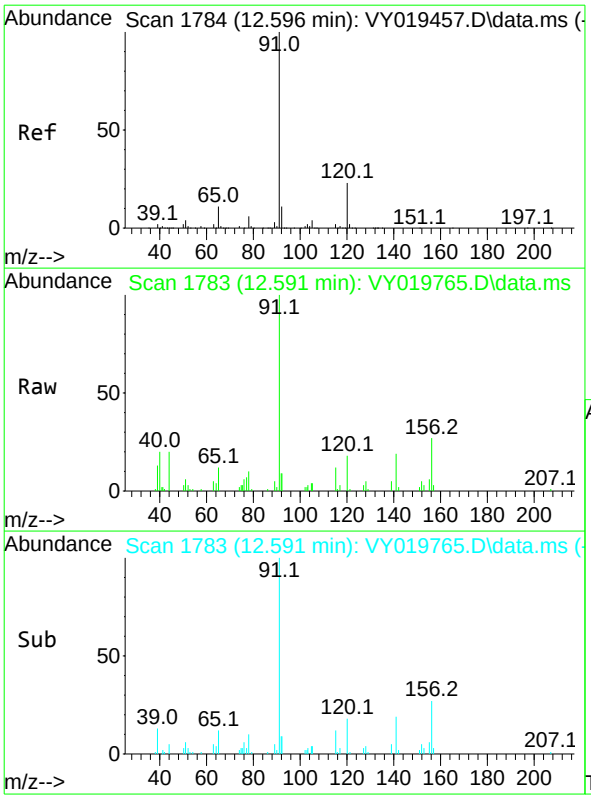




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Tgt Ion:152 Resp: 23916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 63.2 | 28.2 | 84.7 |
| 150 | 158.0 | 0.0 | 345.6 |



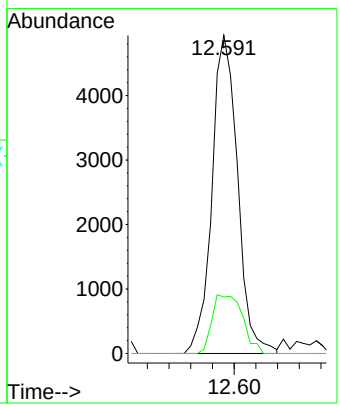


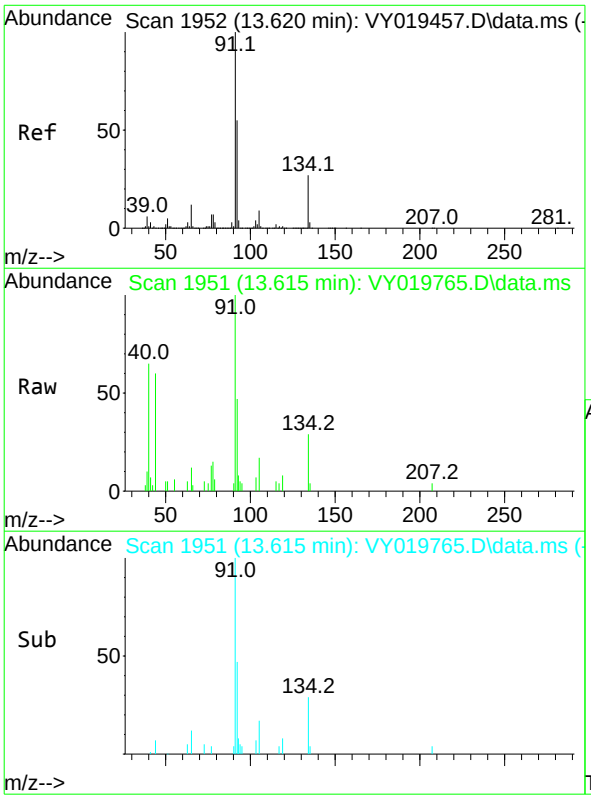

#78
n-propylbenzene
Concen: 3.937 ug/l
RT: 12.591 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

Tgt Ion: 91 Resp: 8096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.8 | 11.5 | 34.4 |

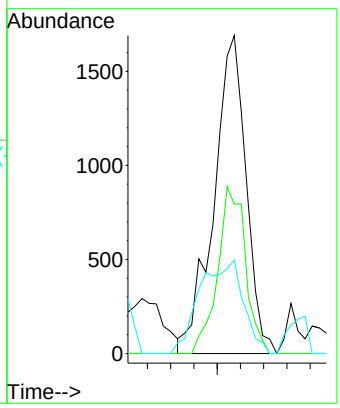


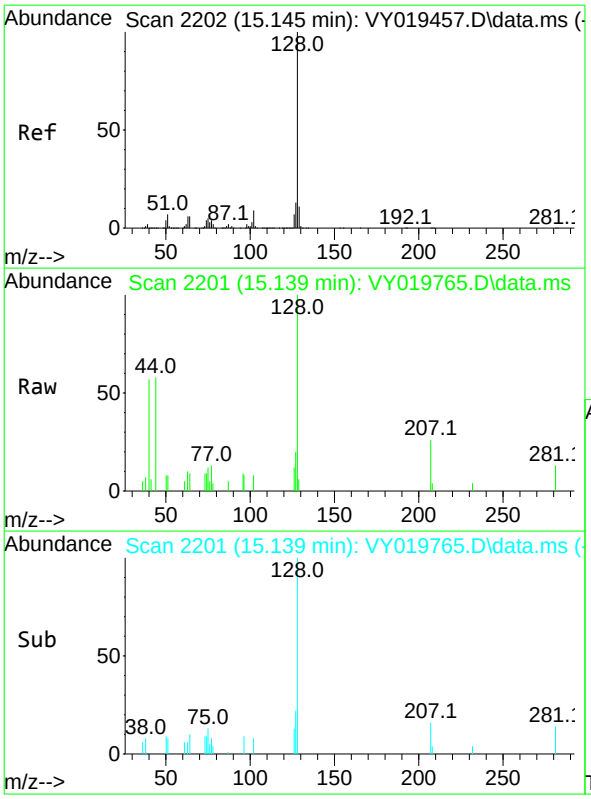




#89
n-Butylbenzene
Concen: 2.245 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

Tgt Ion: 91 Resp: 3258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 45.2 | 26.6 | 79.7 |
| 134 | 39.7 | 12.9 | 38.7# |



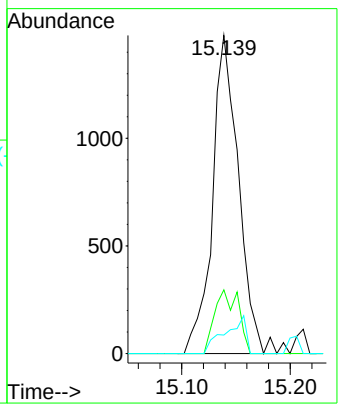



#95
Naphthalene
Concen: 3.038 ug/l
RT: 15.139 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY019765.D
Acq: 02 Oct 2024 15:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

Tgt Ion:128 Resp: 2469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 18.3 | 10.6 | 16.0# |
| 129 | 9.5 | 8.6 | 13.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

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\82Y090924S.M
Title : SW846 8260

Signal : TIC: VY019765.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.068 | 52 | 57 | 60 | rBV4 | 2705 | 5023 | 1.64% | 0.273% |
| 2 | 4.610 | 467 | 474 | 476 | rBV5 | 3052 | 5738 | 1.88% | 0.312% |
| 3 | 6.878 | 839 | 846 | 858 | rBV3 | 5951 | 20002 | 6.54% | 1.088% |
| 4 | 7.634 | 961 | 970 | 976 | rBV2 | 42981 | 104134 | 34.03% | 5.664% |
| 5 | 7.707 | 976 | 982 | 995 | rVB | 84742 | 193990 | 63.39% | 10.552% |
| 6 | 8.061 | 1029 | 1040 | 1050 | rBV2 | 38014 | 89988 | 29.41% | 4.895% |
| 7 | 8.616 | 1123 | 1131 | 1140 | rBV | 121005 | 242318 | 79.19% | 13.180% |
| 8 | 10.103 | 1368 | 1375 | 1385 | rBV | 176874 | 306006 | 100.00% | 16.645% |
| 9 | 10.512 | 1437 | 1442 | 1445 | rBV2 | 3793 | 6260 | 2.05% | 0.341% |
| 10 | 10.871 | 1496 | 1501 | 1505 | rBV4 | 1954 | 3215 | 1.05% | 0.175% |
| 11 | 11.243 | 1558 | 1562 | 1567 | rBV6 | 2337 | 4179 | 1.37% | 0.227% |
| 12 | 11.414 | 1584 | 1590 | 1603 | rBV | 147873 | 246977 | 80.71% | 13.434% |
| 13 | 12.249 | 1722 | 1727 | 1733 | rVB3 | 2891 | 5247 | 1.71% | 0.285% |
| 14 | 12.402 | 1745 | 1752 | 1763 | rVB2 | 100754 | 175834 | 57.46% | 9.564% |
| 15 | 12.591 | 1771 | 1783 | 1794 | rBV3 | 16221 | 45841 | 14.98% | 2.493% |
| 16 | 12.761 | 1801 | 1811 | 1815 | rBV10 | 3708 | 11760 | 3.84% | 0.640% |
| 17 | 13.170 | 1871 | 1878 | 1883 | rBV4 | 2196 | 4456 | 1.46% | 0.242% |
| 18 | 13.340 | 1898 | 1906 | 1916 | rBV | 95521 | 160414 | 52.42% | 8.725% |
| 19 | 13.511 | 1927 | 1934 | 1937 | rBV3 | 9138 | 14944 | 4.88% | 0.813% |
| 20 | 13.542 | 1937 | 1939 | 1944 | rVB4 | 4959 | 6554 | 2.14% | 0.356% |
| 21 | 13.596 | 1944 | 1948 | 1949 | rBV3 | 4634 | 5933 | 1.94% | 0.323% |
| 22 | 13.889 | 1990 | 1996 | 2001 | rBV2 | 30389 | 47139 | 15.40% | 2.564% |
| 23 | 13.944 | 2001 | 2005 | 2008 | rBV3 | 2744 | 3546 | 1.16% | 0.193% |
| 24 | 13.993 | 2008 | 2013 | 2018 | rVB5 | 7474 | 11860 | 3.88% | 0.645% |
| 25 | 14.212 | 2044 | 2049 | 2058 | rVB3 | 15854 | 26906 | 8.79% | 1.464% |
| 26 | 14.480 | 2087 | 2093 | 2096 | rBV4 | 8044 | 13334 | 4.36% | 0.725% |
| 27 | 14.596 | 2104 | 2112 | 2118 | rVV3 | 17759 | 35362 | 11.56% | 1.923% |
| 28 | 14.657 | 2118 | 2122 | 2126 | rVB4 | 2156 | 3782 | 1.24% | 0.206% |
| 29 | 14.858 | 2145 | 2155 | 2158 | rBV6 | 4129 | 8055 | 2.63% | 0.438% |
| 30 | 14.956 | 2166 | 2171 | 2177 | rBV7 | 3607 | 7947 | 2.60% | 0.432% |
| 31 | 15.139 | 2197 | 2201 | 2207 | rVB4 | 3535 | 5248 | 1.71% | 0.285% |
| 32 | 15.297 | 2222 | 2227 | 2230 | rVB6 | 1947 | 3276 | 1.07% | 0.178% |
| 33 | 15.925 | 2327 | 2330 | 2336 | rVB6 | 1639 | 3200 | 1.05% | 0.174% |
| 34 | 16.169 | 2368 | 2370 | 2376 | rVB5 | 2428 | 4521 | 1.48% | 0.246% |
| 35 | 16.370 | 2398 | 2403 | 2408 | rBV7 | 2581 | 5479 | 1.79% | 0.298% |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

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\82Y090924S.M
Title : SW846 8260

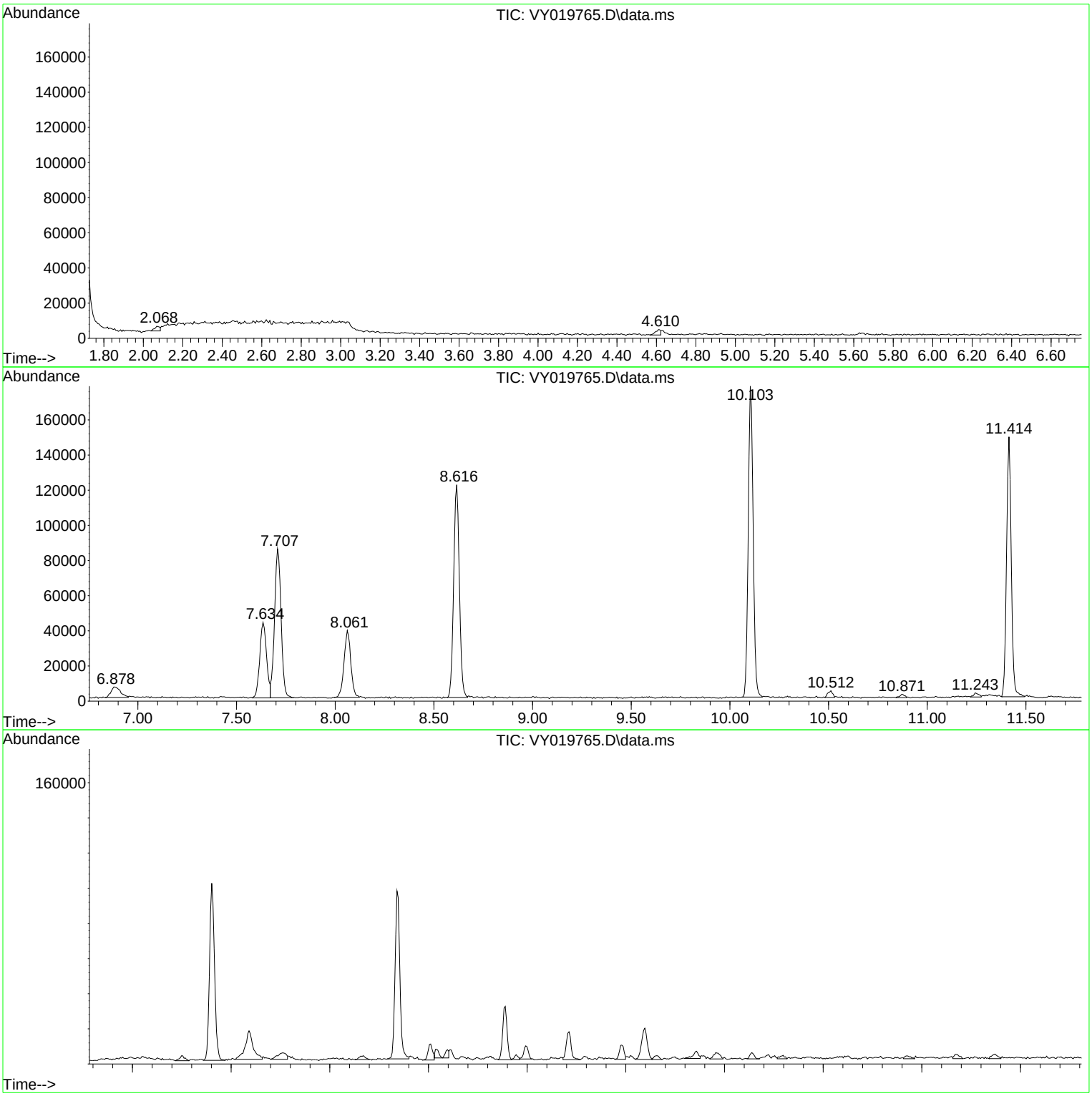
Sum of corrected areas: 1838468

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

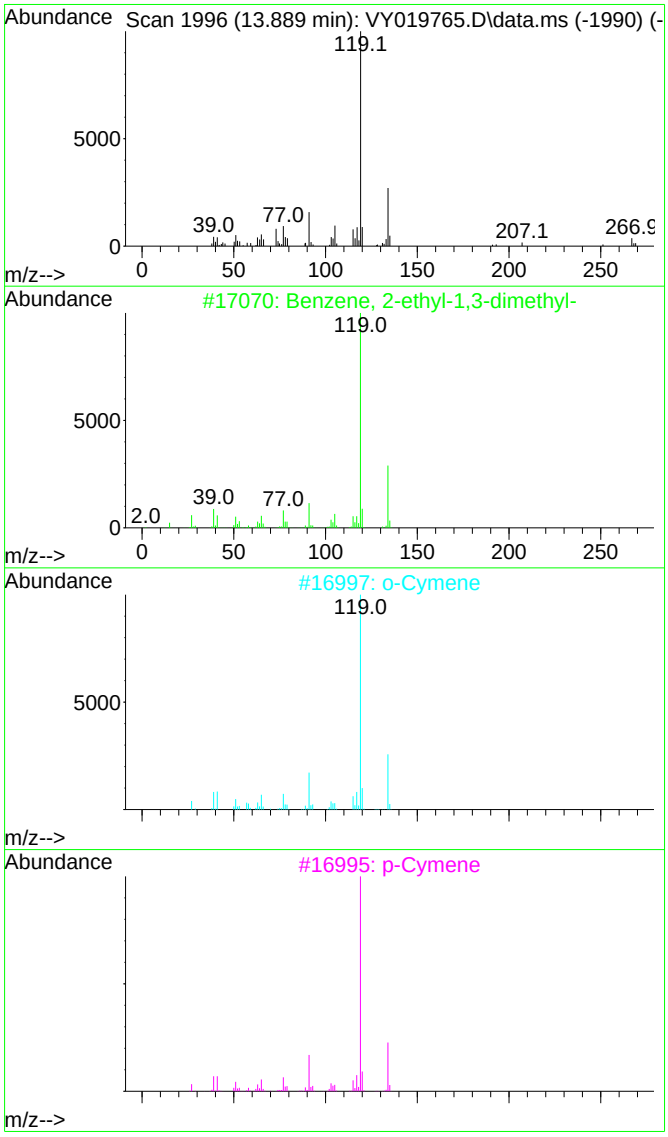
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Quant Title : SW846 8260

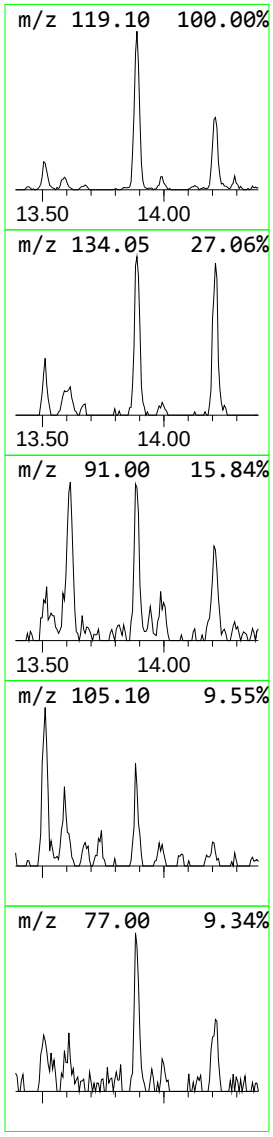
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.889 | 14.69 ug/l | 47139 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 94 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 3 | p-Cymene | 134 | C10H14 | 000099-87-6 | 93 |
| 4 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |
| 5 | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14 | 076089-59-3 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

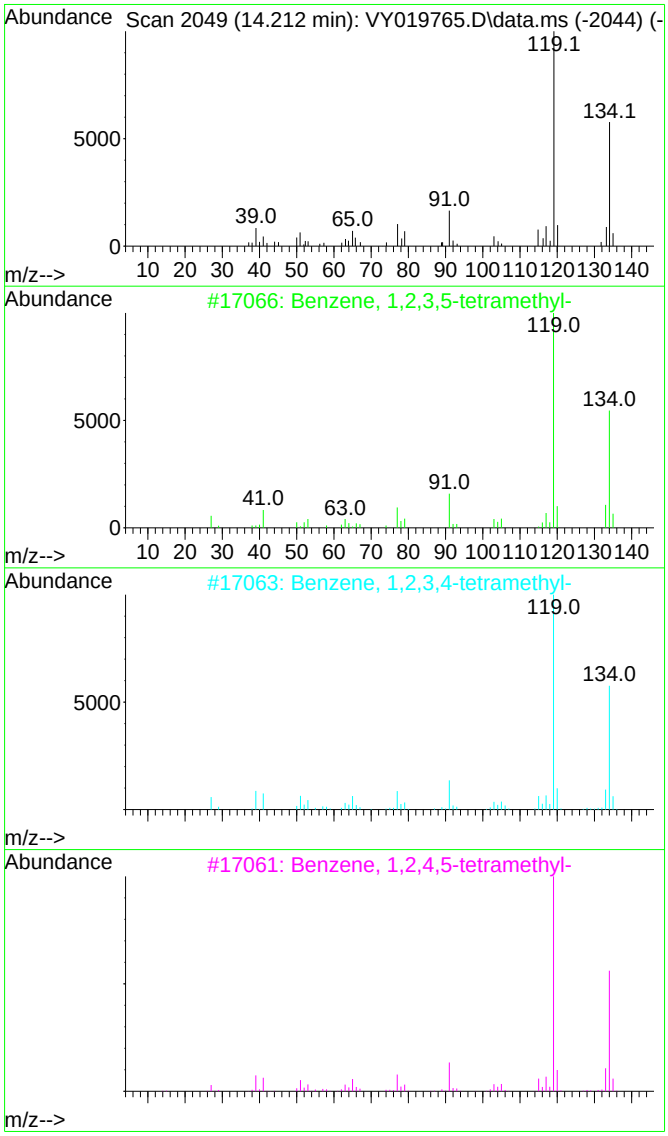
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Quant Title : SW846 8260

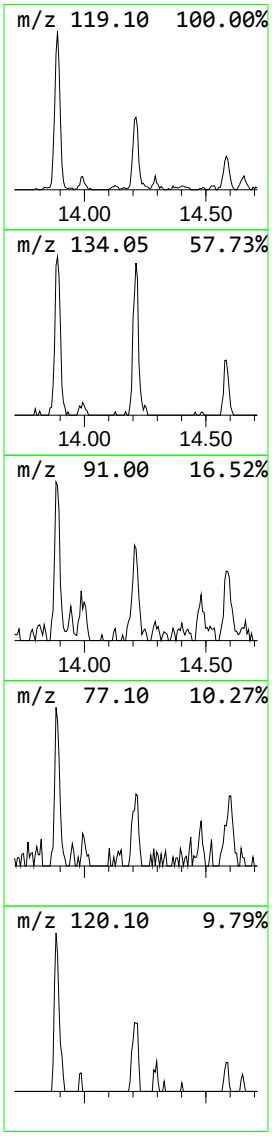
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.212 | 8.39 ug/l | 26906 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 97 |
| 2 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 95 |
| 3 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 94 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 94 |
| 5 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

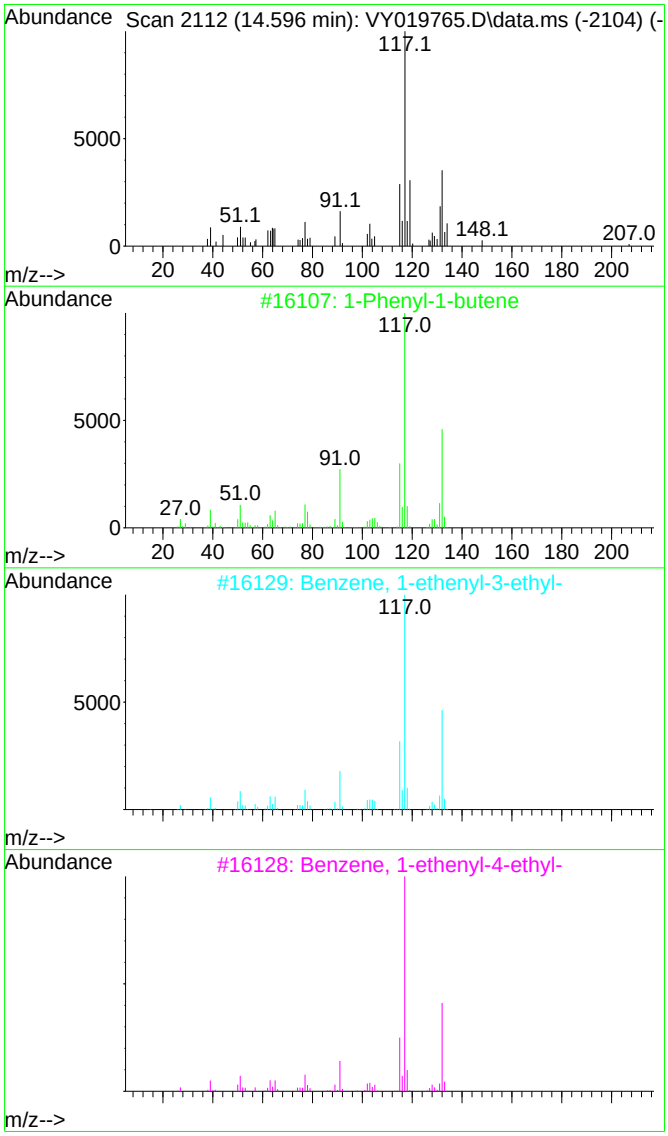
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

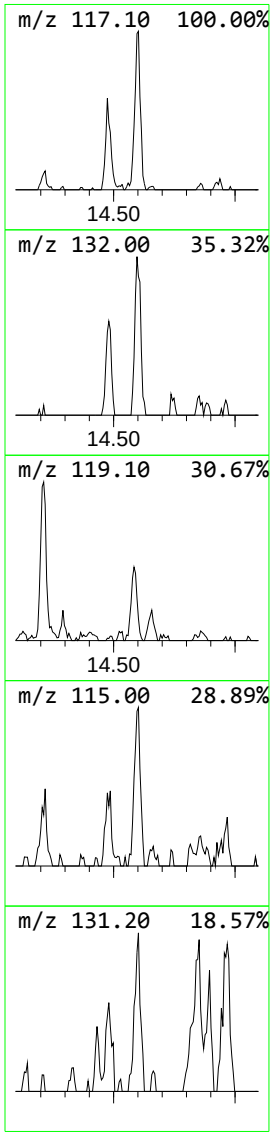
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 1-Phenyl-1-butene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.596 | 11.02 ug/l | 35362 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 94 |
| 2 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 93 |
| 3 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 92 |
| 4 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 81 |
| 5 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 70 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019765.D
Acq On : 02 Oct 2024 15:23
Operator : SY/MD
Sample : P4258-03
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain Ave

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Benzene, 2-ethy... | 13.889 | 14.7 | ug/l | 47139 | 4 | 13.340 | 160414 | 50.0 |
| Benzene, 1,2,3,... | 14.212 | 8.4 | ug/l | 26906 | 4 | 13.340 | 160414 | 50.0 |
| 1-Phenyl-1-butene | 14.596 | 11.0 | ug/l | 35362 | 4 | 13.340 | 160414 | 50.0 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019780.D
Acq On : 03 Oct 2024 12:10
Operator : SY/MD
Sample : P4258-03RE
Misc : 4.99g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain AveRE

Quant Time: Oct 04 04:20:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

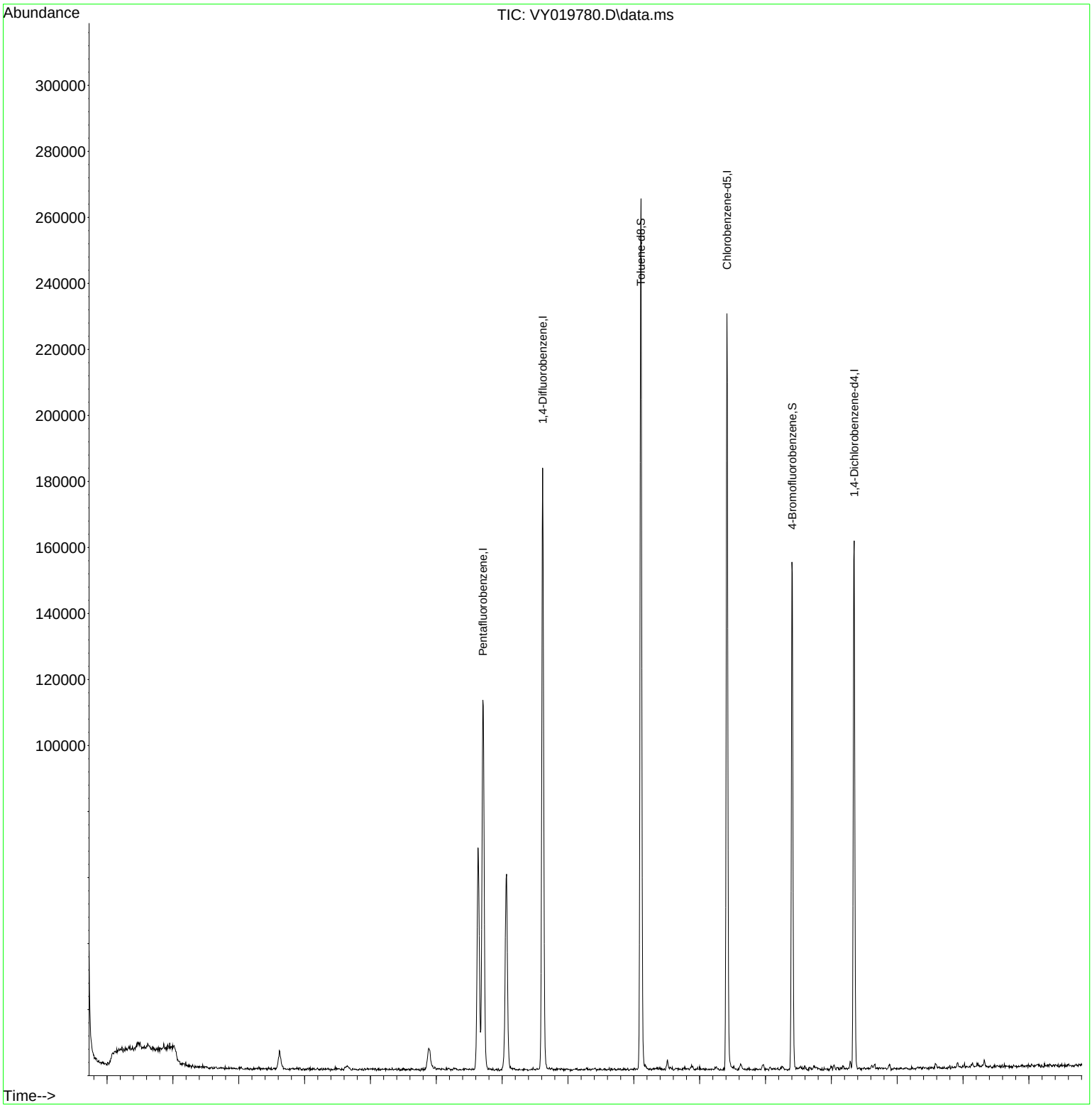
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 82774 | 50.000 | ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 150343 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 119106 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 38457 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 47695 | 62.227 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 124.460% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 48548 | 56.953 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 113.900% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 170941 | 54.217 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 108.440% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 49064 | 40.471 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 80.940% | | | |
| Target Compounds | | | | | | Qvalue |
| 95) Naphthalene | 15.145 | 128 | 1413 | 1.081 | ug/l # | 83 |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019780.D
Acq On : 03 Oct 2024 12:10
Operator : SY/MD
Sample : P4258-03RE
Misc : 4.99g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

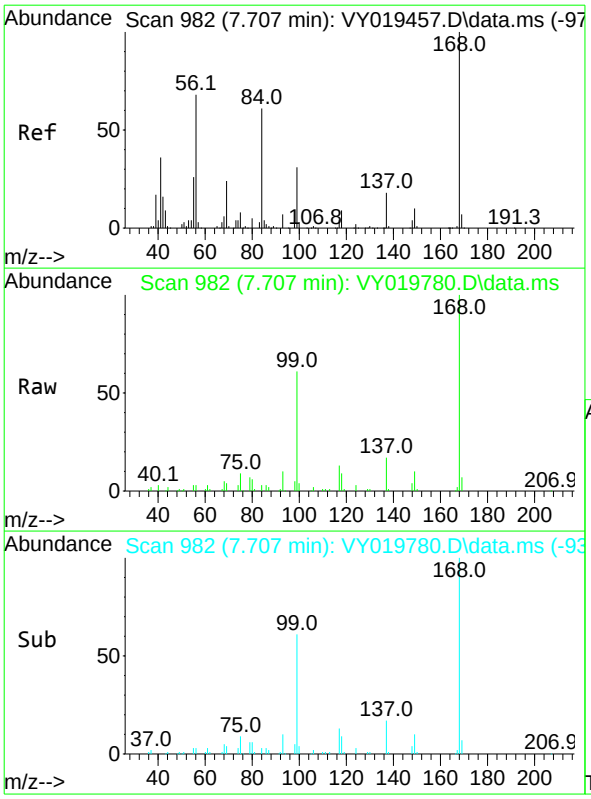
**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain AveRE

Quant Time: Oct 04 04:20:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration



**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain AveRE

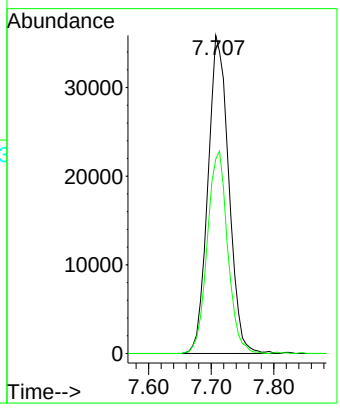


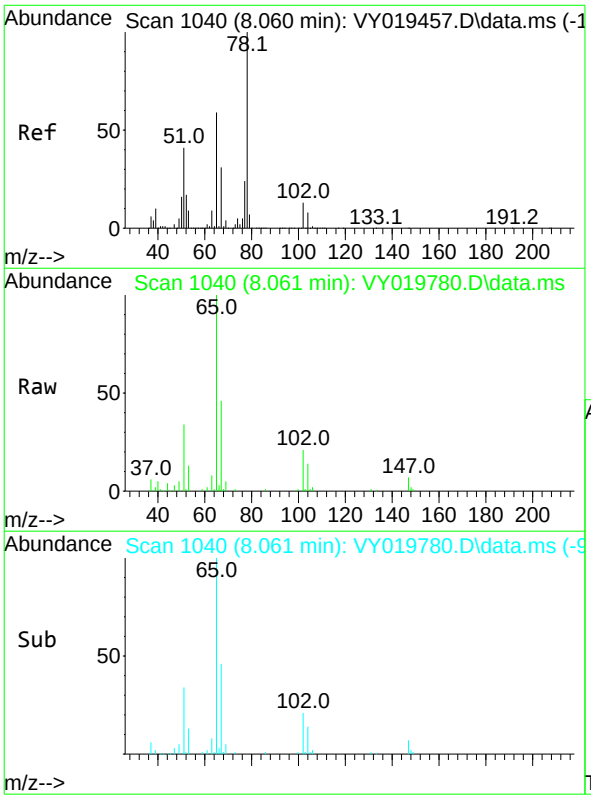



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Tgt Ion:168 Resp: 82774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.2 | 39.1 | 58.7# |

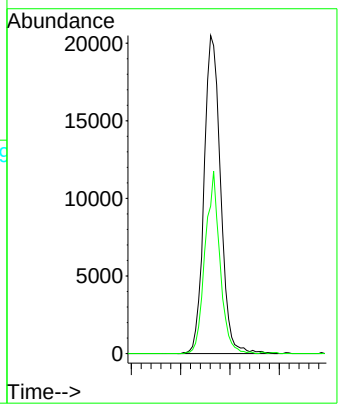


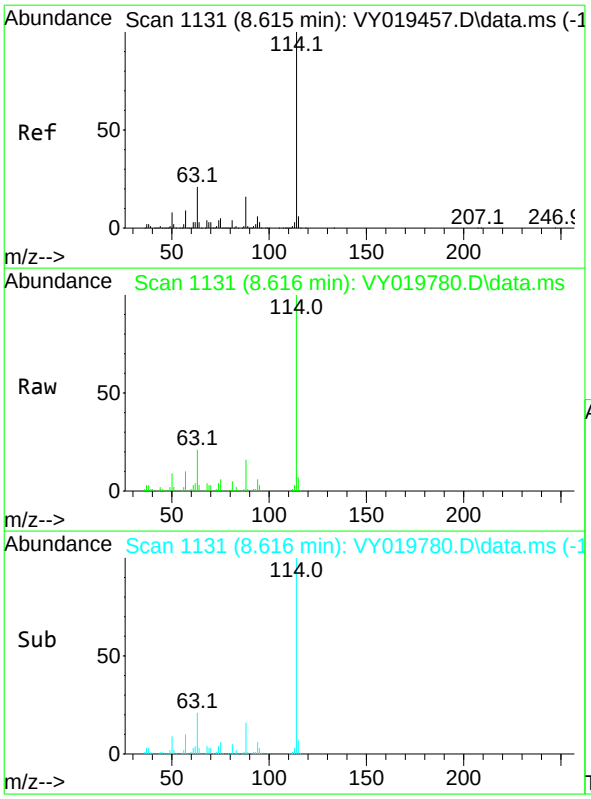




#33
1,2-Dichloroethane-d4
Concen: 62.227 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Tgt Ion: 65 Resp: 47695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 109.6 |



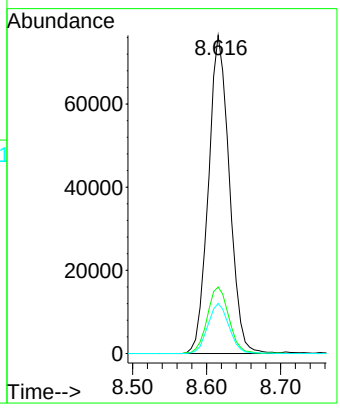


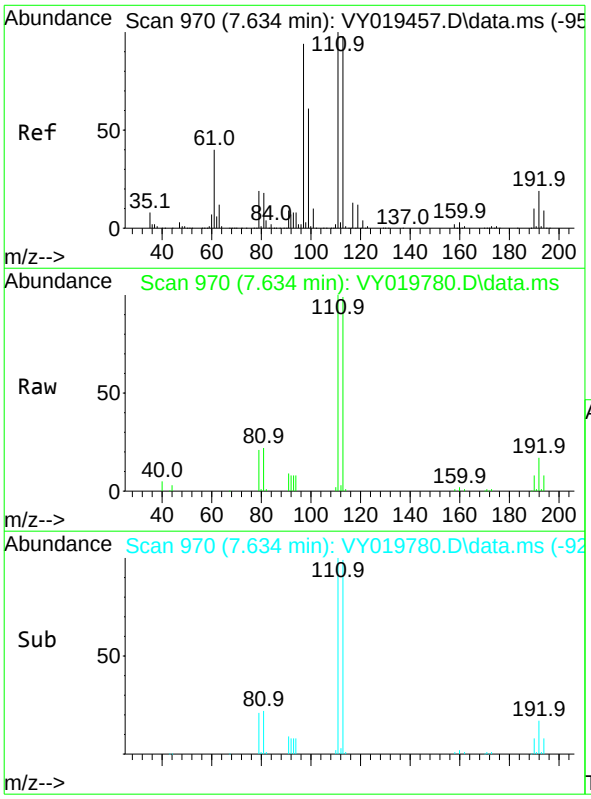

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain AveRE

Tgt Ion:114 Resp: 150343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.9 | 0.0 | 35.0 |
| 88 | 15.7 | 0.0 | 27.2 |

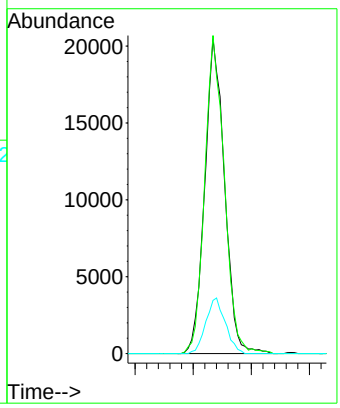


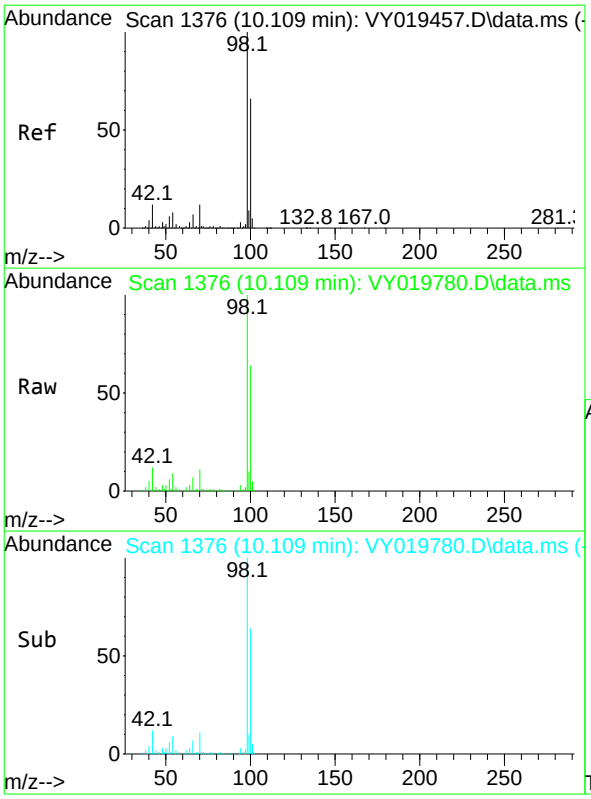




#35
Dibromofluoromethane
Concen: 56.953 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Tgt Ion:113 Resp: 48548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.1 | 82.2 | 123.4 |
| 192 | 17.3 | 15.9 | 23.9 |



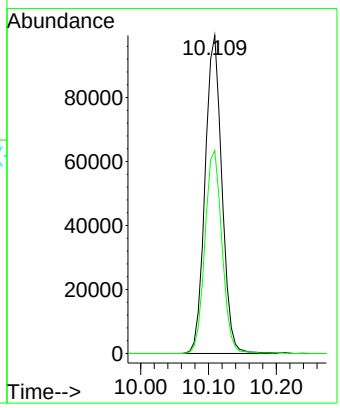


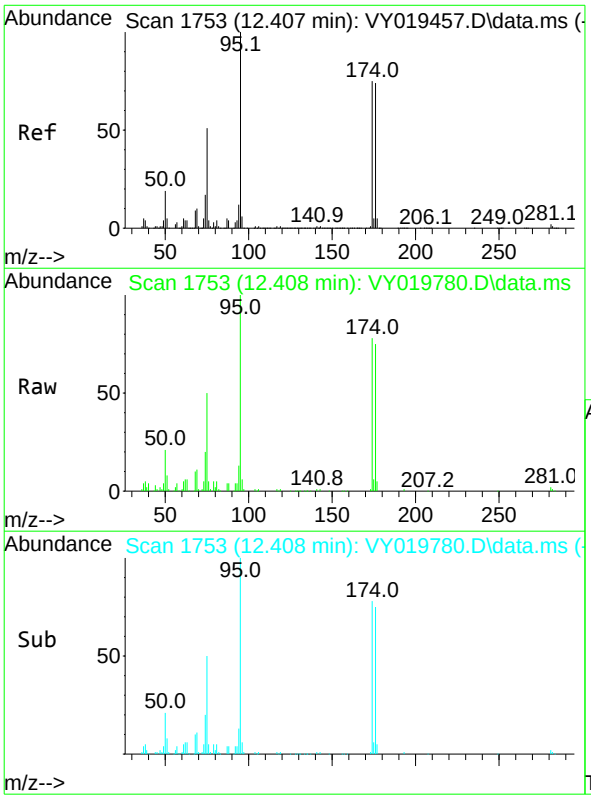

#50
Toluene-d8
Concen: 54.217 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain AveRE

Tgt Ion: 98 Resp: 170941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.0 | 78.0 |

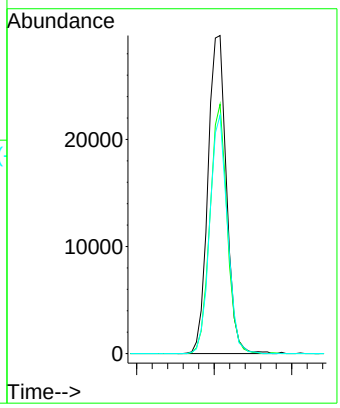


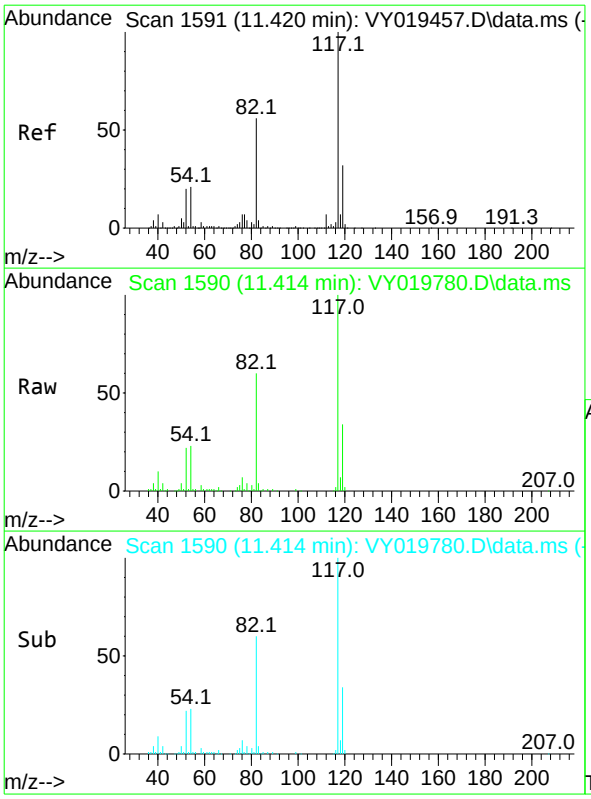




#62
4-Bromofluorobenzene
Concen: 40.471 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Tgt Ion: 95 Resp: 49064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.0 | 0.0 | 175.6 |
| 176 | 71.7 | 0.0 | 171.4 |



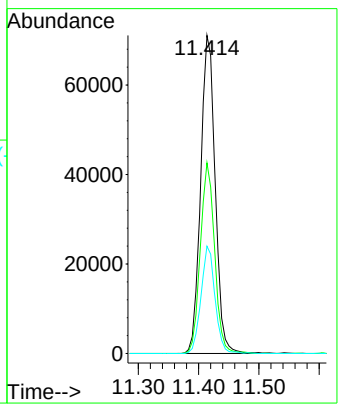


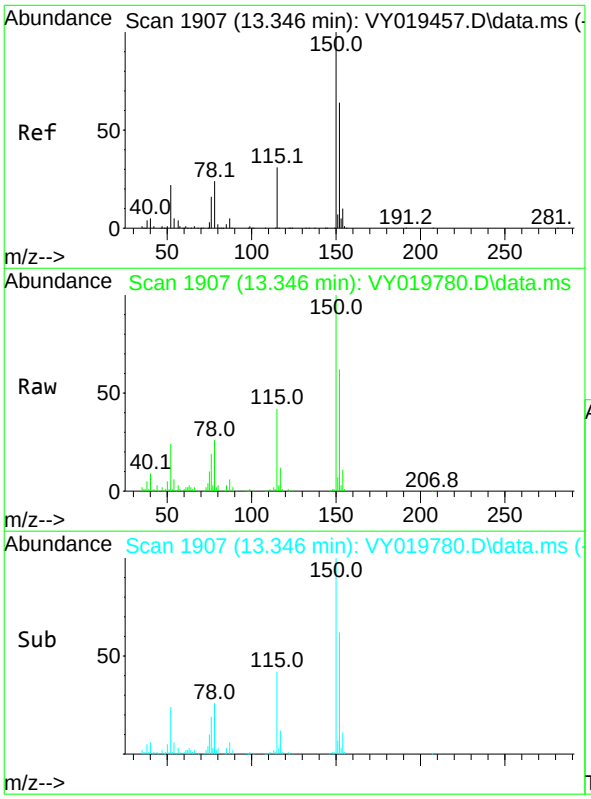

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain AveRE

Tgt Ion:117 Resp: 119106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.9 | 42.4 | 63.6 |
| 119 | 33.7 | 25.9 | 38.9 |

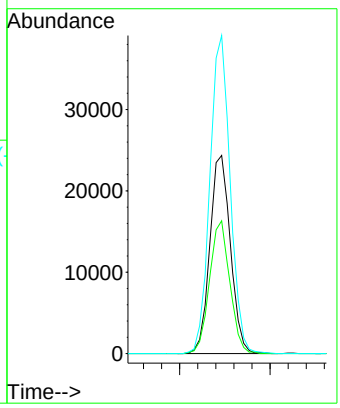


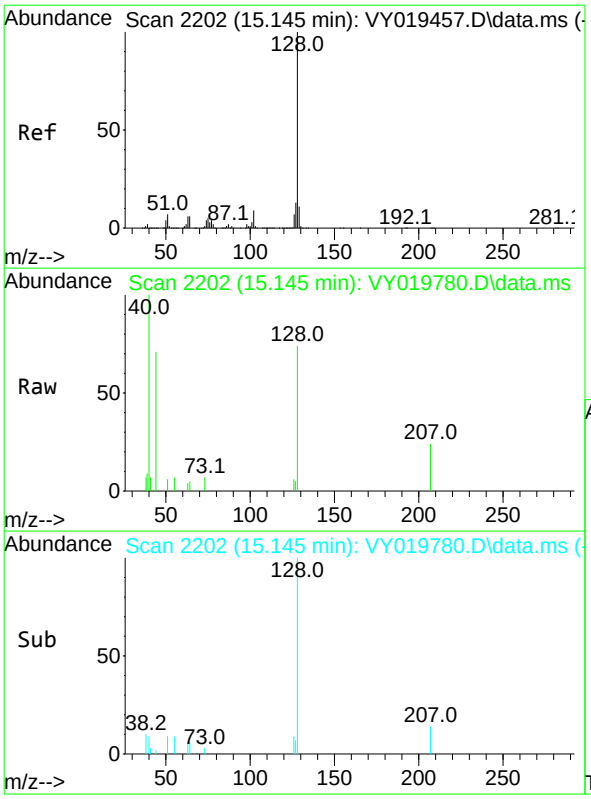




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

Tgt Ion:152 Resp: 38457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.0 | 28.2 | 84.7 |
| 150 | 158.4 | 0.0 | 345.6 |



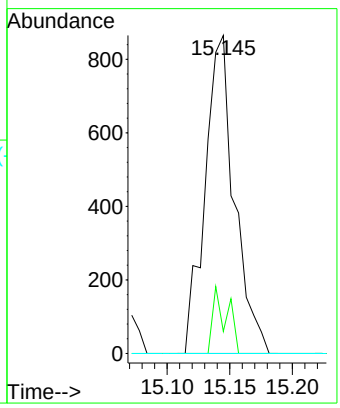



#95
Naphthalene
Concen: 1.081 ug/l
RT: 15.145 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY019780.D
Acq: 03 Oct 2024 12:10

**Instrument :**
MSVOA_Y
**ClientSampleId :**
Chamberlain AveRE

Tgt Ion:128 Resp: 1413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 10.1 | 10.6 | 16.0# |
| 129 | 0.0 | 8.6 | 13.0# |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBL01

Quant Time: Oct 03 01:58:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

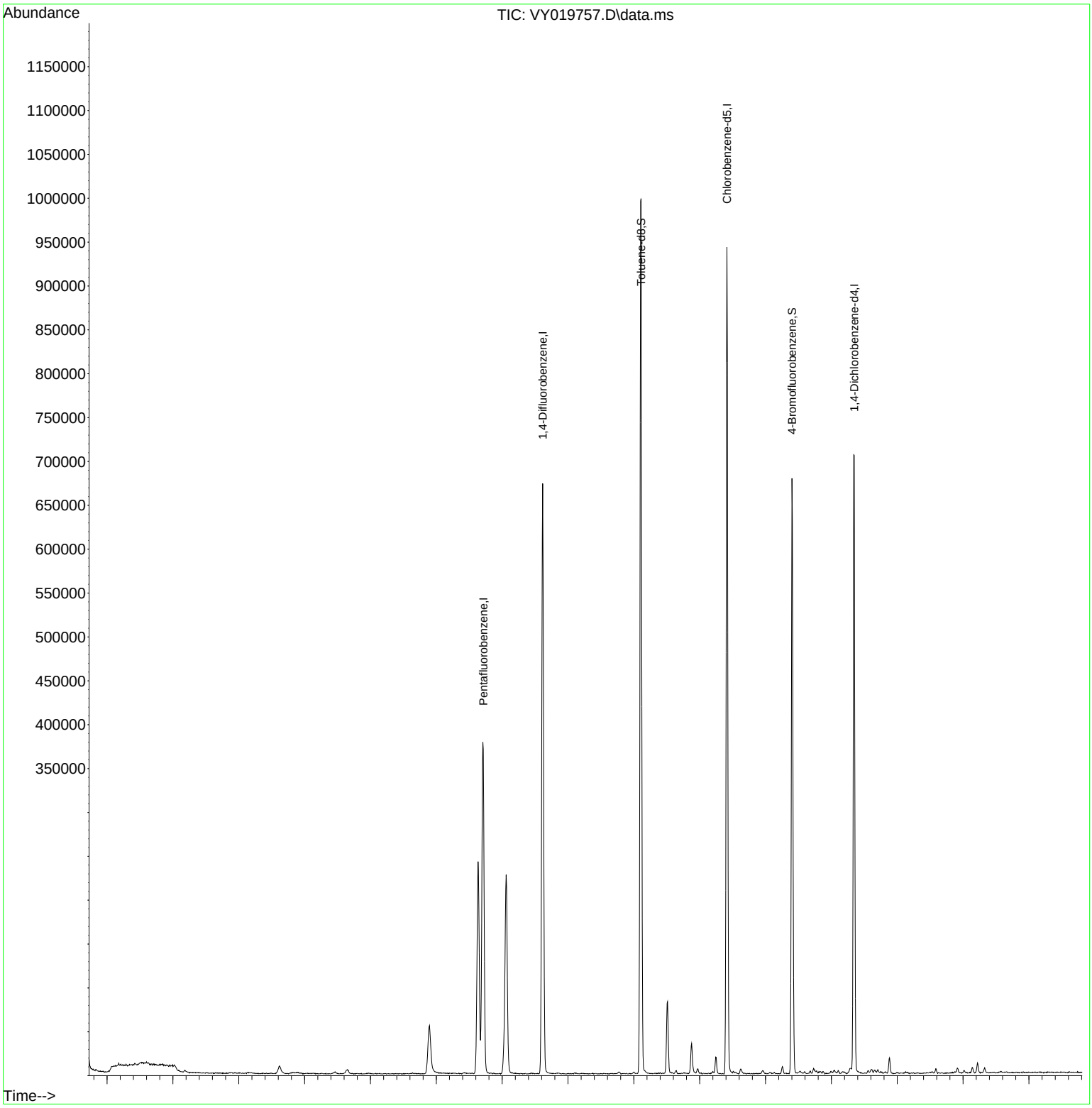
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 286214 | 50.000 ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 551968 | 50.000 ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 482661 | 50.000 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 169673 | 50.000 ug/l | 0.00 |
| System Monitoring Compounds | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 167942 | 63.368 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 126.740% | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 173639 | 55.484 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 110.960% | | |
| 50) Toluene-d8 | 10.109 | 98 | 654579 | 56.549 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 113.100% | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 204991 | 46.056 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 92.120% | | |
| Target Compounds | | | | | Qvalue |

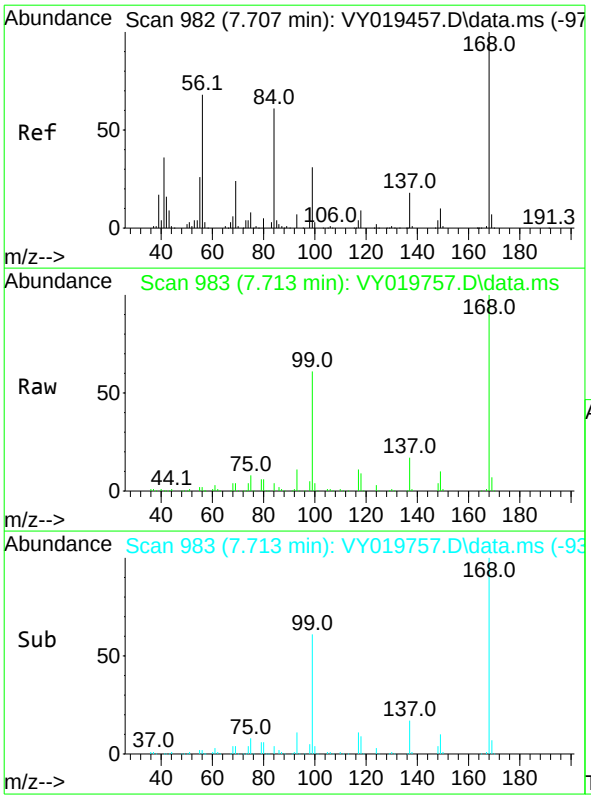
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBL01

Quant Time: Oct 03 01:58:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration



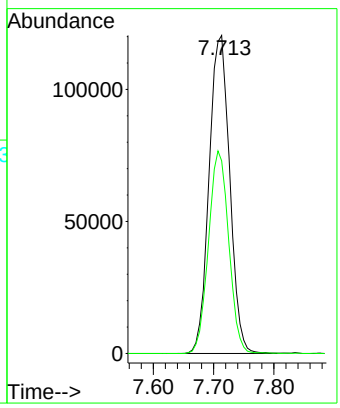


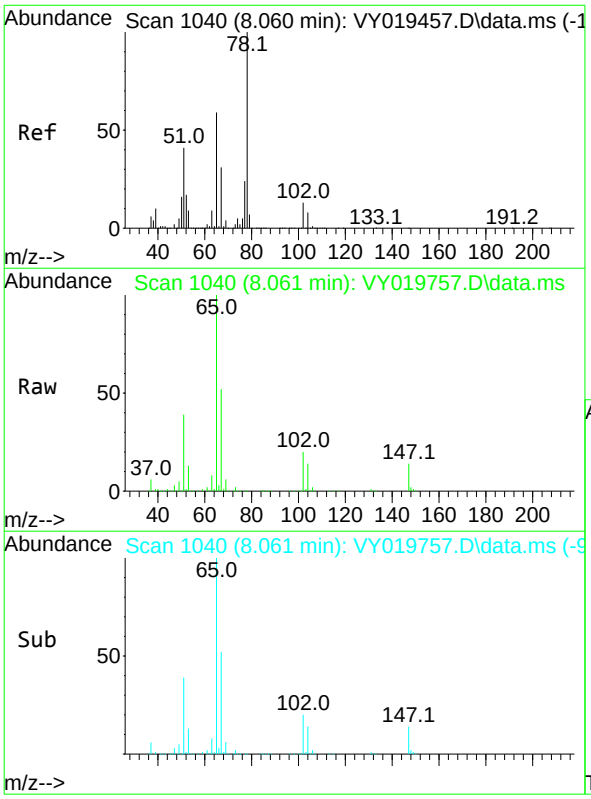

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBL01

Tgt Ion:168 Resp: 286214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.6 | 39.1 | 58.7# |

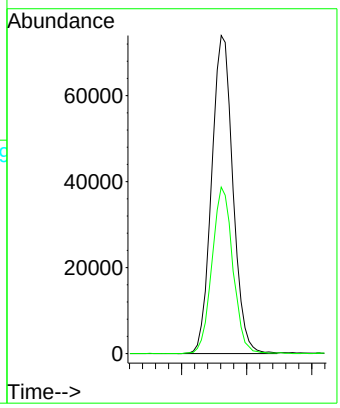


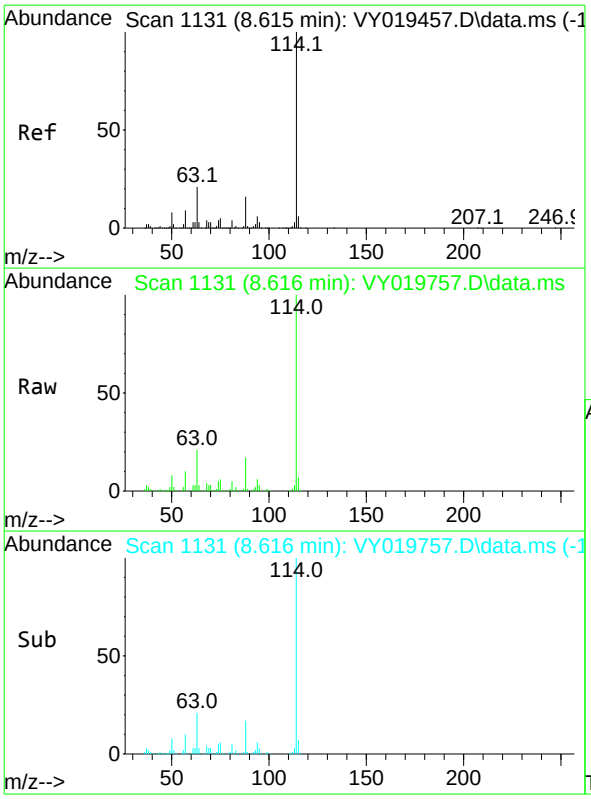

#33
1,2-Dichloroethane-d4
Concen: 63.368 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Tgt Ion: 65 Resp: 167942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.3 | 0.0 | 109.6 |



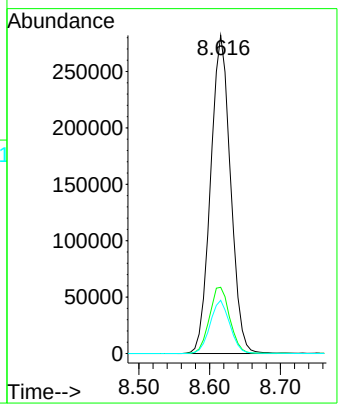
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBL01

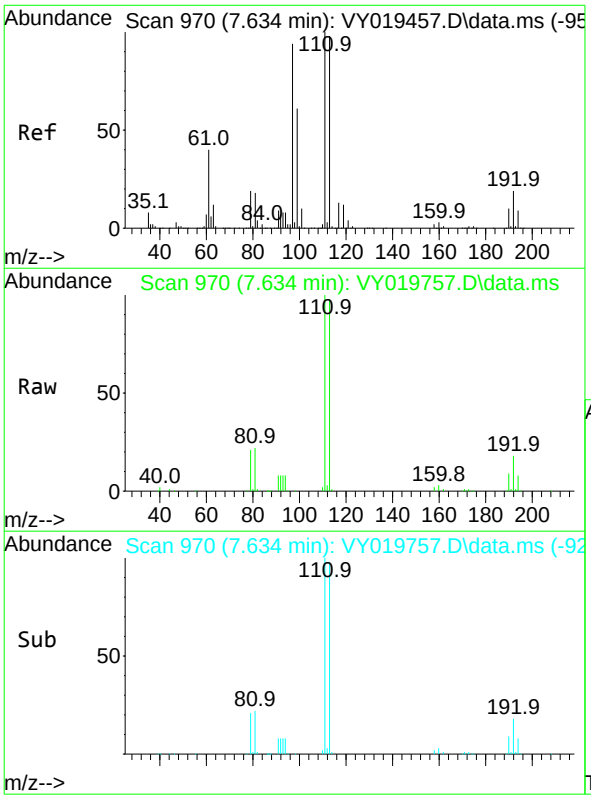



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Tgt Ion:114 Resp: 551968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.8 | 0.0 | 35.0 |
| 88 | 16.7 | 0.0 | 27.2 |

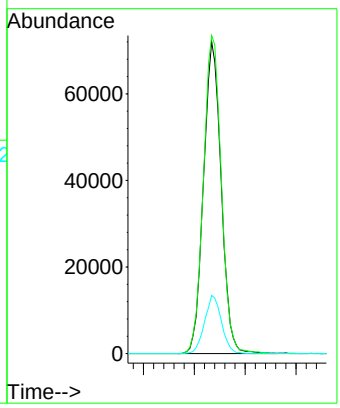


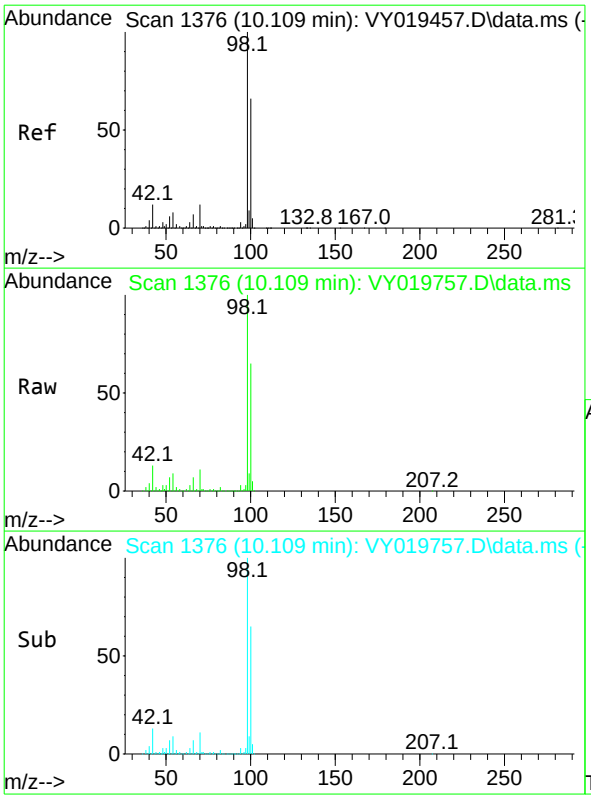




#35
Dibromofluoromethane
Concen: 55.484 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Tgt Ion:113 Resp: 173639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.4 | 82.2 | 123.4 |
| 192 | 17.9 | 15.9 | 23.9 |



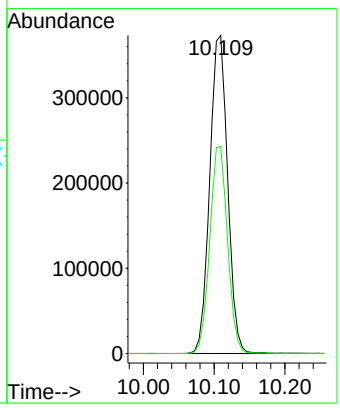


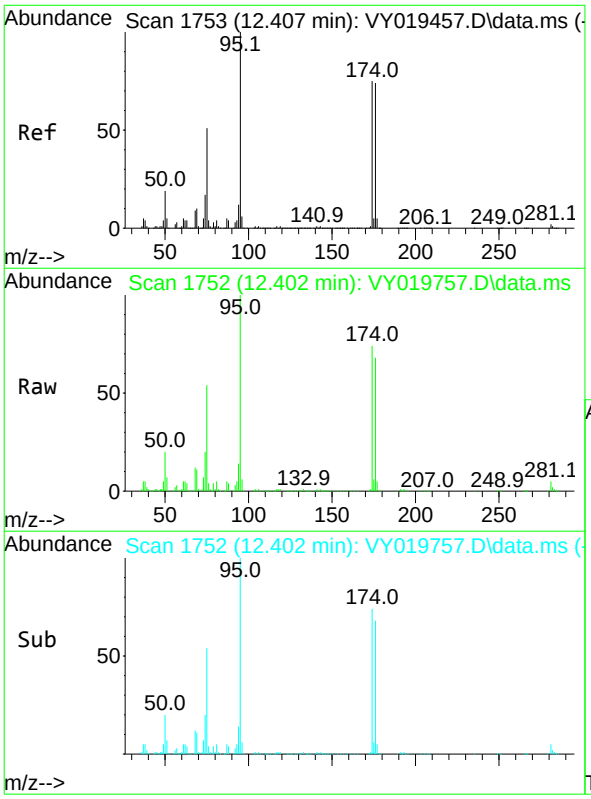

#50
Toluene-d8
Concen: 56.549 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBL01

Tgt Ion: 98 Resp: 654579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.8 | 52.0 | 78.0 |

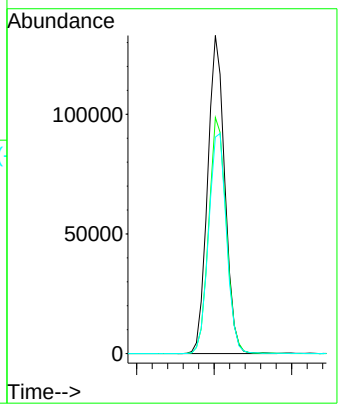


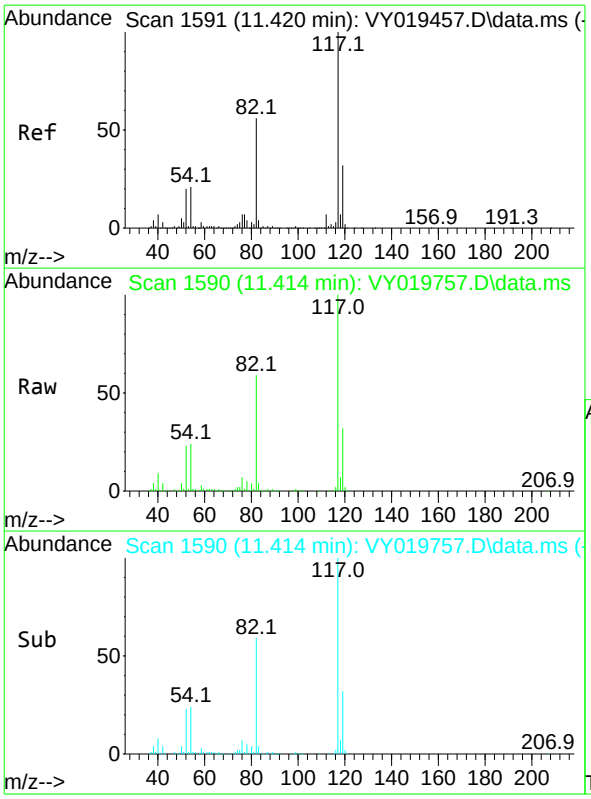




#62
4-Bromofluorobenzene
Concen: 46.056 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Tgt Ion: 95 Resp: 204991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.2 | 0.0 | 175.6 |
| 176 | 72.1 | 0.0 | 171.4 |



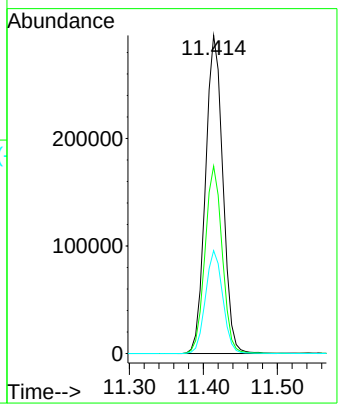


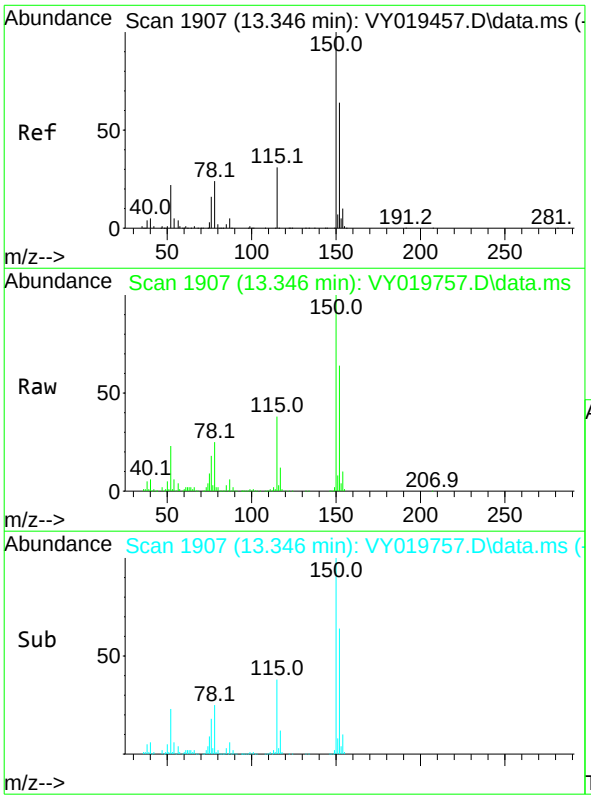

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBL01

Tgt Ion:117 Resp: 482661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.9 | 42.4 | 63.6 |
| 119 | 32.3 | 25.9 | 38.9 |

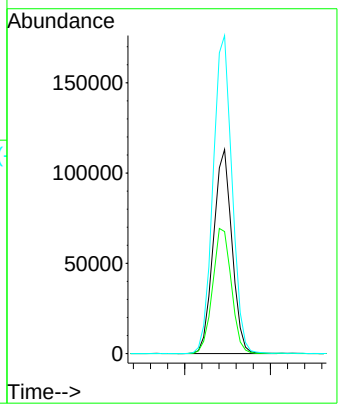



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019757.D
Acq: 02 Oct 2024 10:13

Tgt Ion:152 Resp: 169673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.1 | 28.2 | 84.7 |
| 150 | 159.5 | 0.0 | 345.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBL01

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\82Y090924S.M
Title : SW846 8260

Signal : TIC: VY019757.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.616 | 465 | 475 | 484 | rBV4 | 8798 | 28099 | 1.59% | 0.298% |
| 2 | 6.896 | 834 | 849 | 863 | rBV | 55104 | 179700 | 10.17% | 1.905% |
| 3 | 7.634 | 959 | 970 | 976 | rBV | 241788 | 581728 | 32.93% | 6.165% |
| 4 | 7.707 | 976 | 982 | 994 | rVB | 377132 | 893058 | 50.55% | 9.465% |
| 5 | 8.061 | 1026 | 1040 | 1051 | rBV2 | 227259 | 581590 | 32.92% | 6.164% |
| 6 | 8.616 | 1121 | 1131 | 1148 | rBV | 672838 | 1324041 | 74.94% | 14.033% |
| 7 | 10.109 | 1367 | 1376 | 1392 | rBV | 997249 | 1766815 | 100.00% | 18.726% |
| 8 | 10.512 | 1435 | 1442 | 1449 | rBV | 81629 | 151037 | 8.55% | 1.601% |
| 9 | 10.877 | 1494 | 1502 | 1509 | rBV3 | 34280 | 64343 | 3.64% | 0.682% |
| 10 | 11.243 | 1558 | 1562 | 1571 | rVB2 | 19229 | 32775 | 1.86% | 0.347% |
| 11 | 11.414 | 1583 | 1590 | 1604 | rBV | 942133 | 1537524 | 87.02% | 16.295% |
| 12 | 12.402 | 1745 | 1752 | 1762 | rBV2 | 678649 | 1128678 | 63.88% | 11.962% |
| 13 | 13.340 | 1900 | 1906 | 1921 | rVB | 704386 | 1117288 | 63.24% | 11.842% |
| 14 | 13.883 | 1989 | 1995 | 2002 | rVB2 | 17654 | 28783 | 1.63% | 0.305% |
| 15 | 15.218 | 2209 | 2214 | 2221 | rVB | 11788 | 19854 | 1.12% | 0.210% |

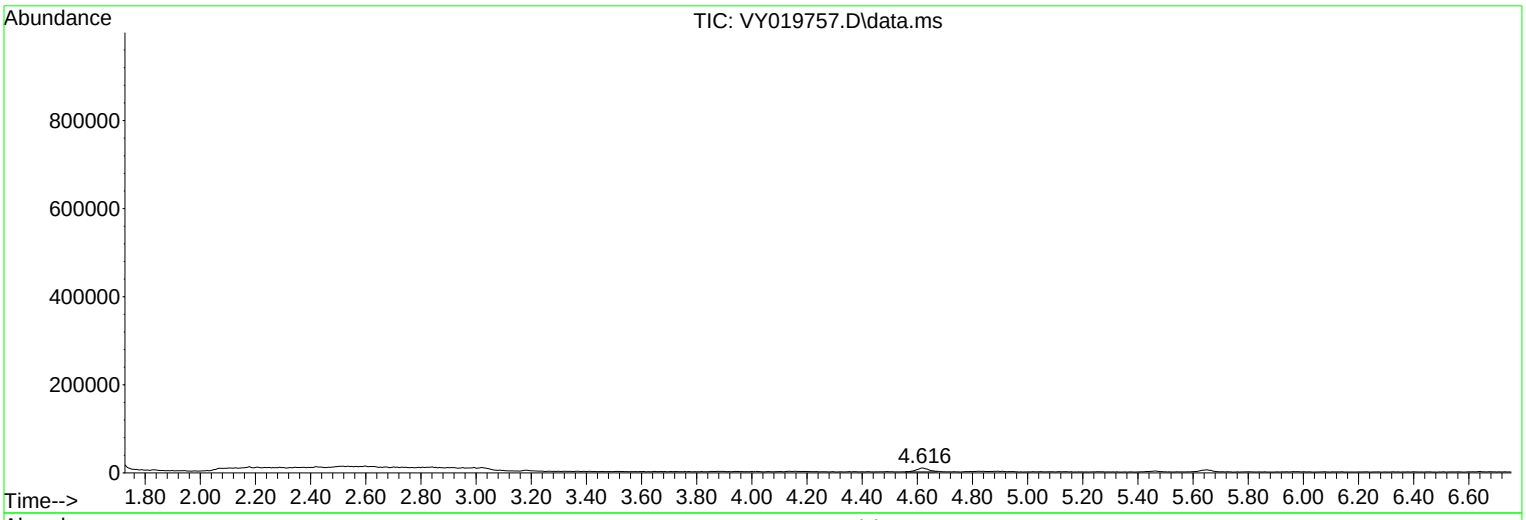
Sum of corrected areas: 9435313

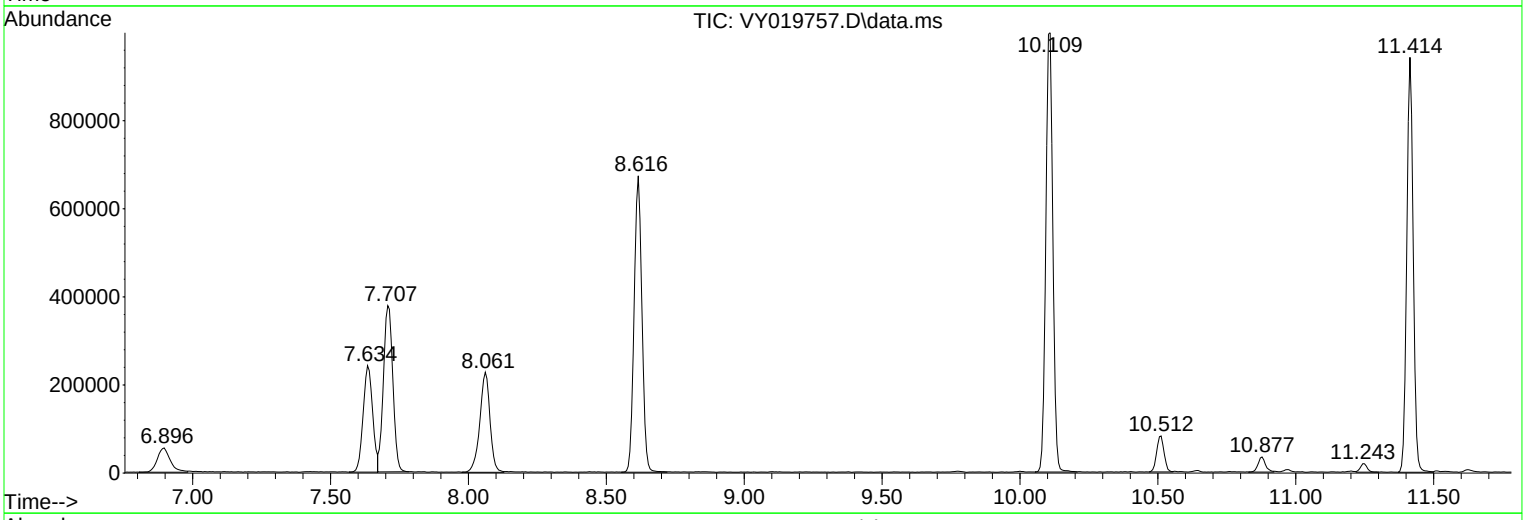
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

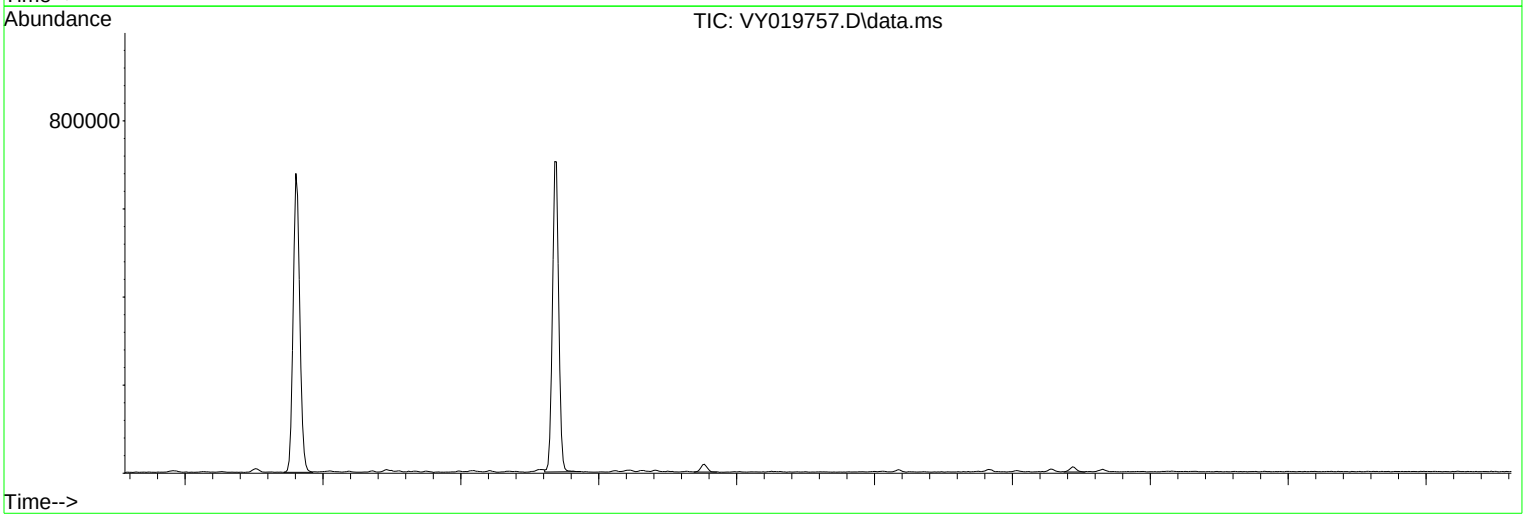
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.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\VY100224\
Data File : VY019757.D
Acq On : 02 Oct 2024 10:13
Operator : SY/MD
Sample : VY1002SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.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\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBL01

Quant Time: Oct 04 01:22:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

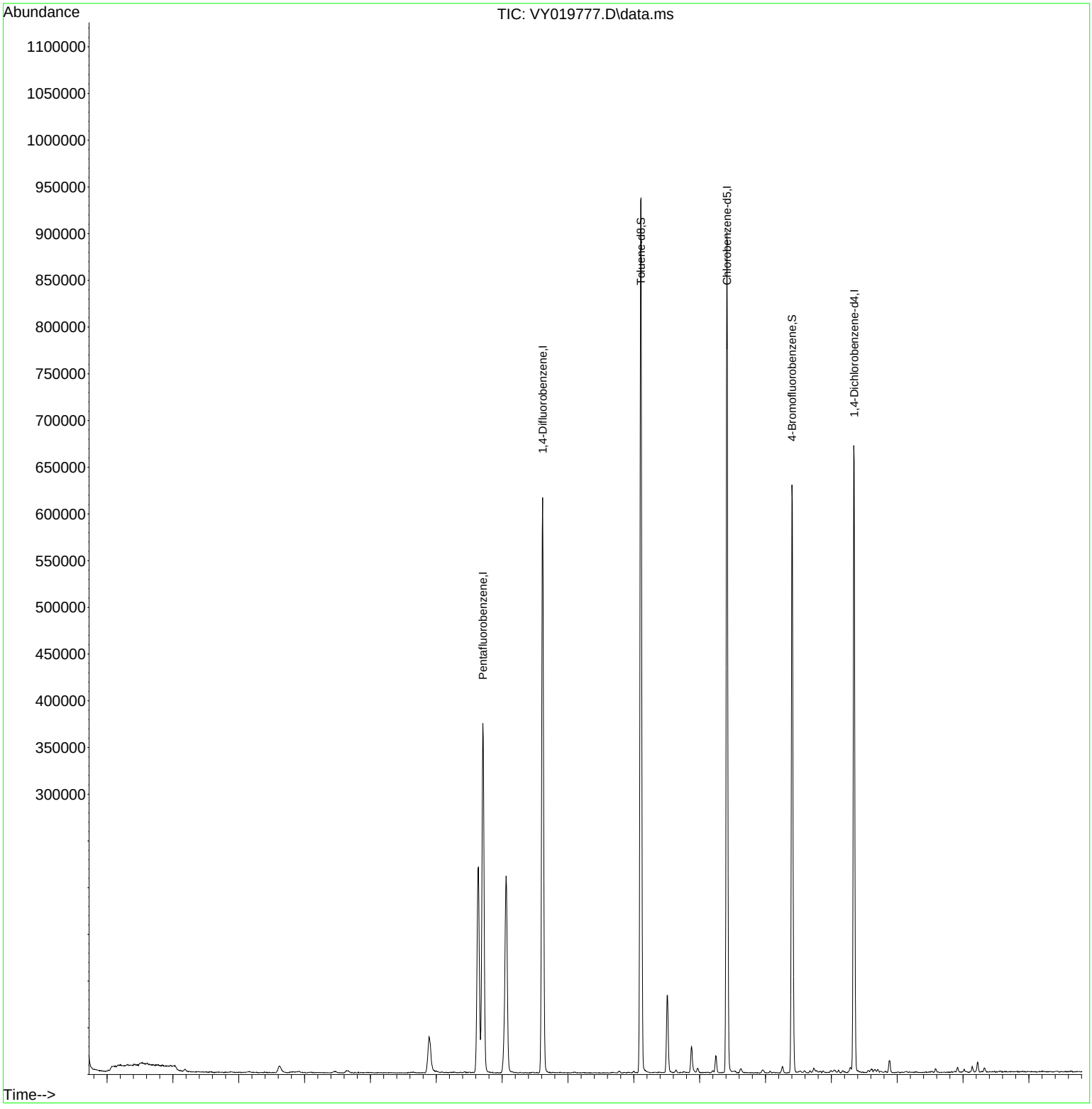
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 267988 | 50.000 | ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 512122 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 450147 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 160873 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 152175 | 61.324 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 122.640% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 160925 | 55.422 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 110.840% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 611282 | 56.917 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 113.840% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 191072 | 46.269 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 92.540% | | | |
| Target Compounds | | | | | | Qvalue |

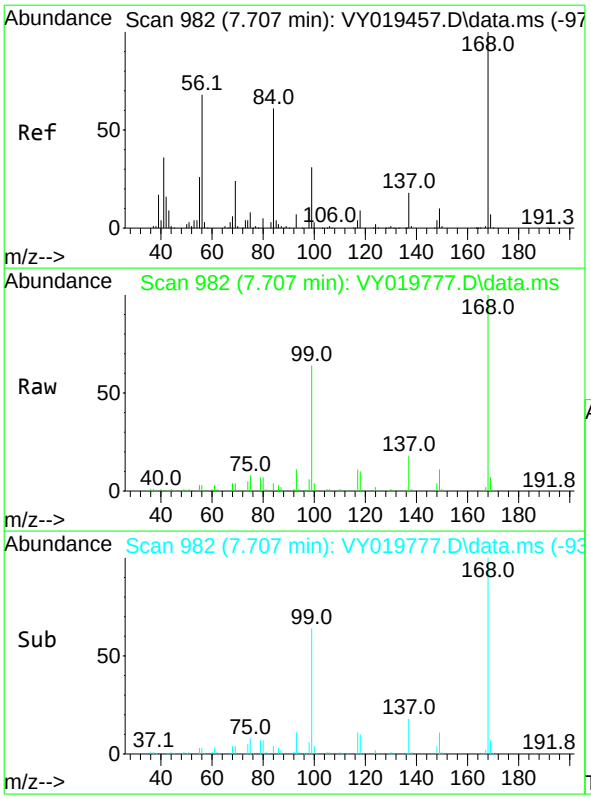
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBL01

Quant Time: Oct 04 01:22:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration



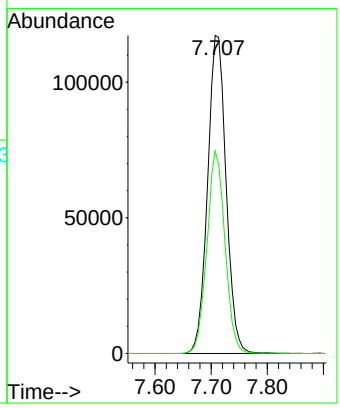


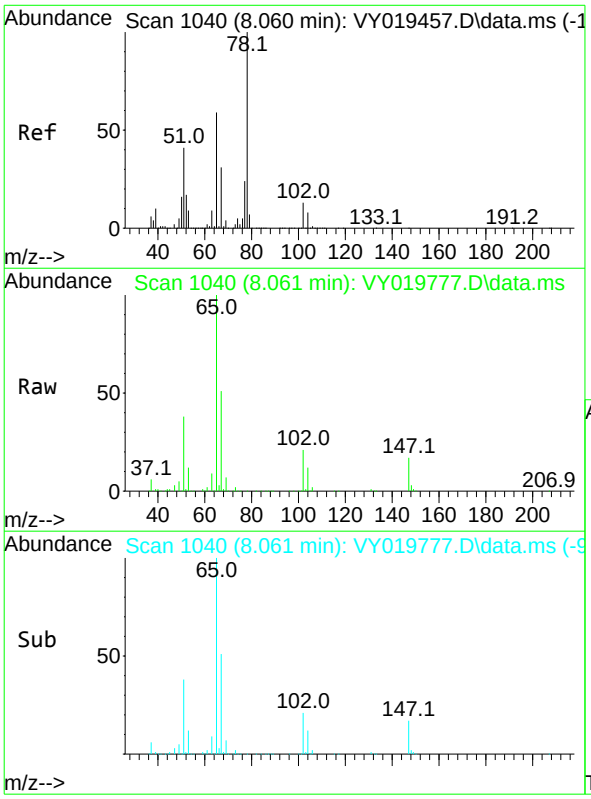

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBL01

Tgt Ion:168 Resp: 267988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.7 | 39.1 | 58.7# |

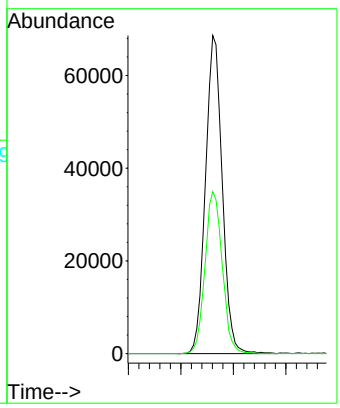


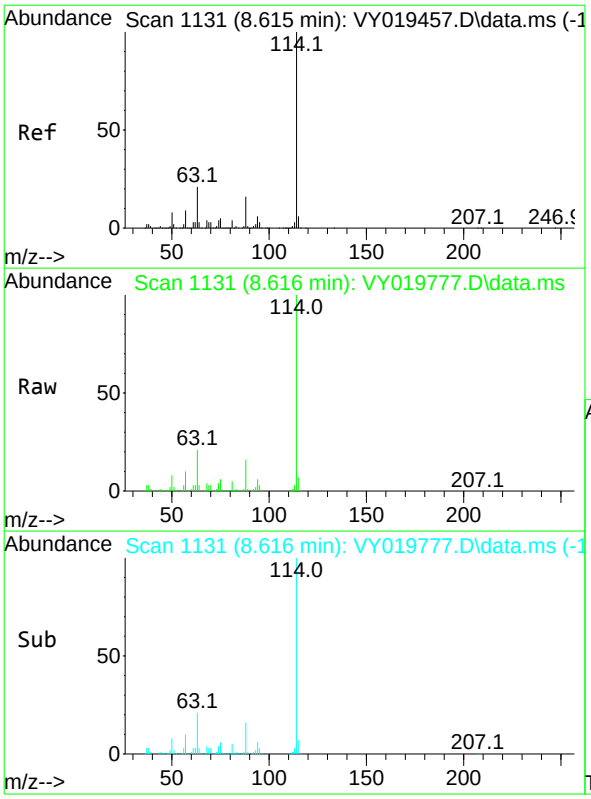




#33
1,2-Dichloroethane-d4
Concen: 61.324 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Tgt Ion: 65 Resp: 152175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.4 | 0.0 | 109.6 |



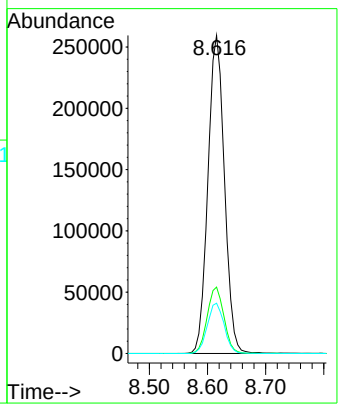


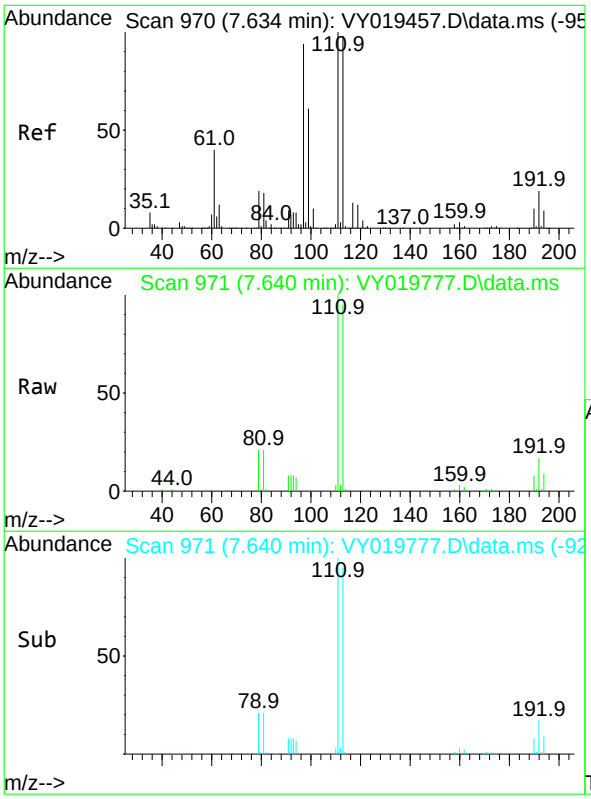

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBL01

Tgt Ion:114 Resp: 512122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.9 | 0.0 | 35.0 |
| 88 | 15.8 | 0.0 | 27.2 |

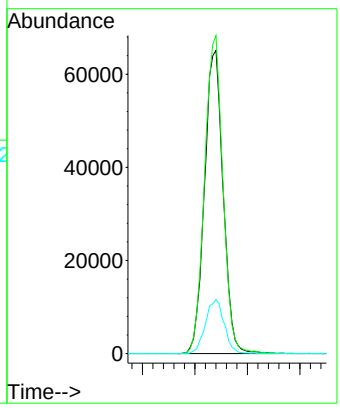


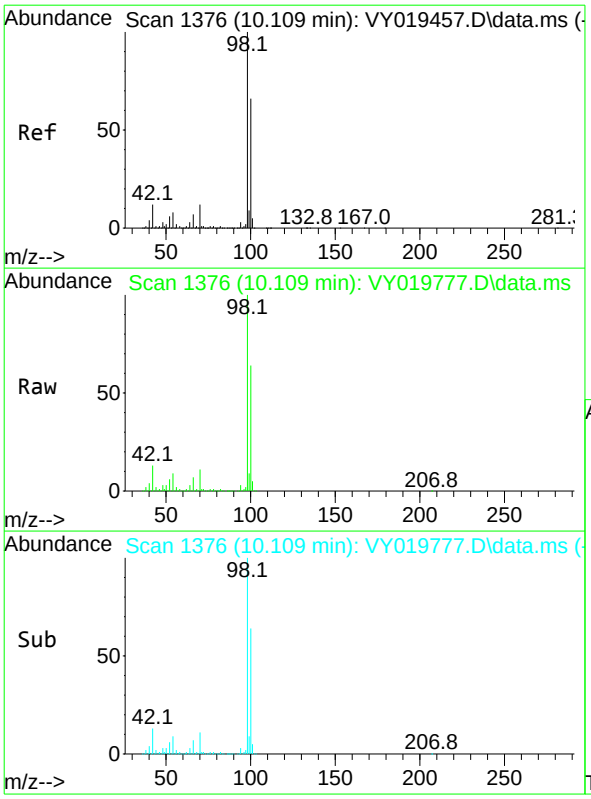




#35
Dibromofluoromethane
Concen: 55.422 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Tgt Ion:113 Resp: 160925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 82.2 | 123.4 |
| 192 | 17.9 | 15.9 | 23.9 |



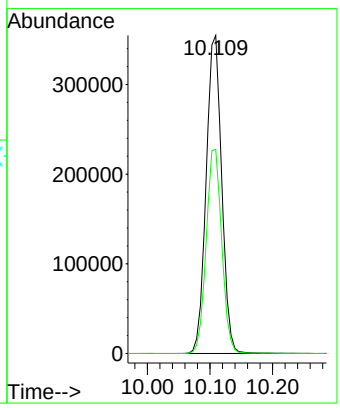


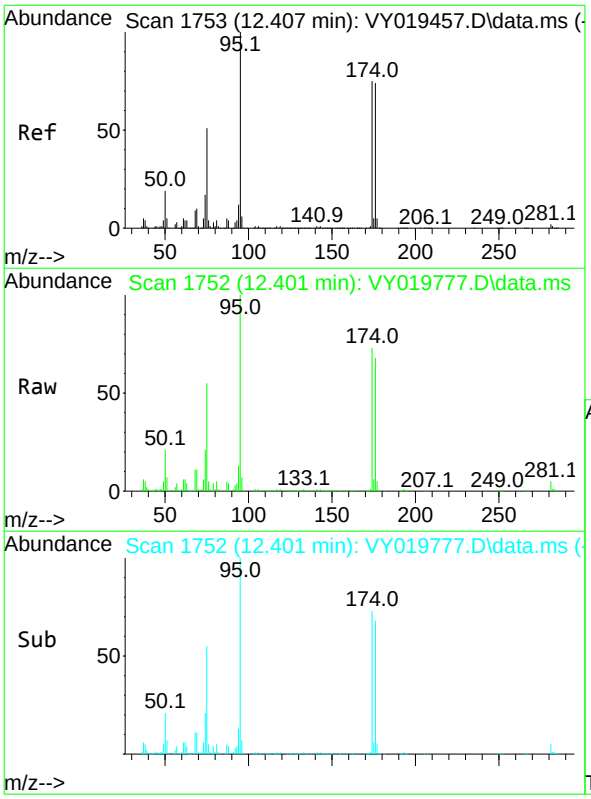

#50
Toluene-d8
Concen: 56.917 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBL01

Tgt Ion: 98 Resp: 611282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.3 | 52.0 | 78.0 |

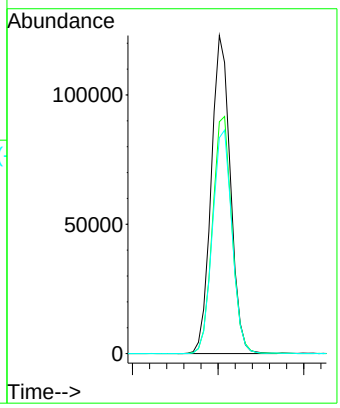


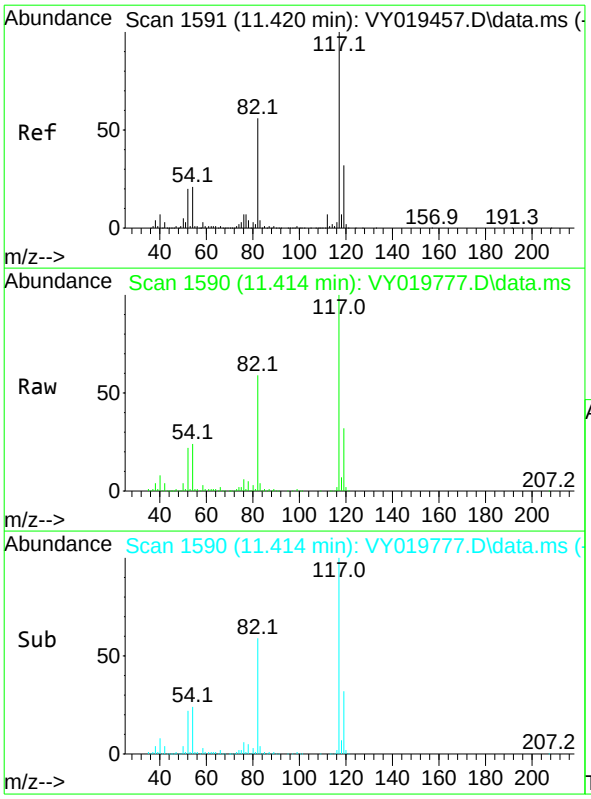




#62
4-Bromofluorobenzene
Concen: 46.269 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Tgt Ion: 95 Resp: 191072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.1 | 0.0 | 175.6 |
| 176 | 71.7 | 0.0 | 171.4 |



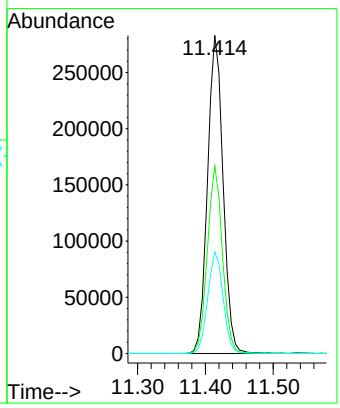


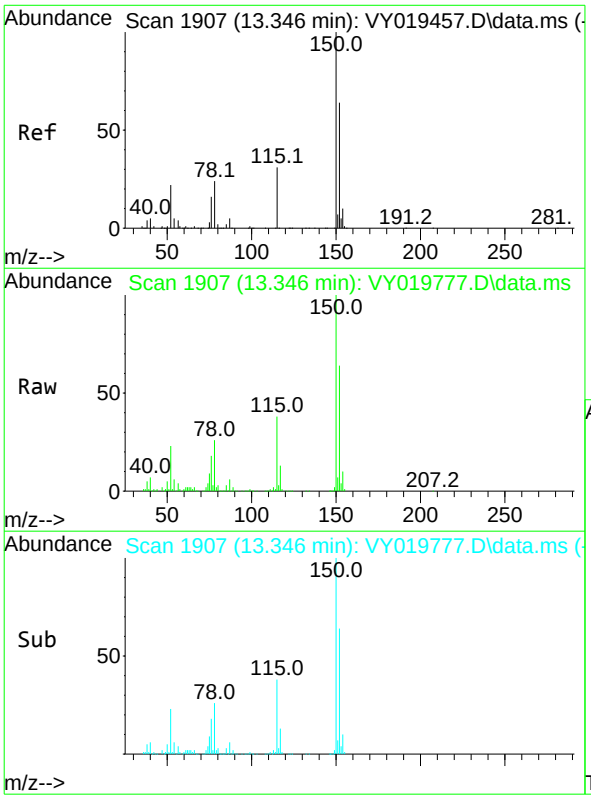

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBL01

Tgt Ion:117 Resp: 450147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.9 | 42.4 | 63.6 |
| 119 | 32.0 | 25.9 | 38.9 |

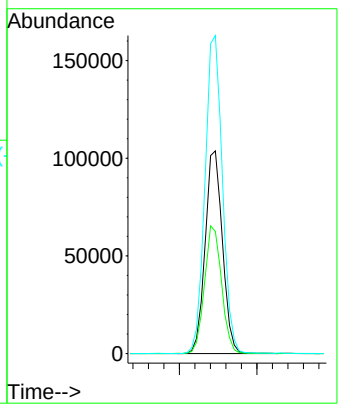



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019777.D
Acq: 03 Oct 2024 10:17

Tgt Ion:152 Resp: 160873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.2 | 28.2 | 84.7 |
| 150 | 157.9 | 0.0 | 345.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBL01

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\82Y090924S.M
Title : SW846 8260

Signal : TIC: VY019777.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.622 | 466 | 476 | 484 | rBV5 | 7159 | 24540 | 1.49% | 0.280% |
| 2 | 6.890 | 836 | 848 | 863 | rBV | 38704 | 128494 | 7.81% | 1.468% |
| 3 | 7.640 | 959 | 971 | 976 | rBV | 220387 | 539202 | 32.78% | 6.160% |
| 4 | 7.707 | 976 | 982 | 995 | rVB | 373257 | 837922 | 50.94% | 9.573% |
| 5 | 8.061 | 1027 | 1040 | 1052 | rBV2 | 210849 | 548000 | 33.31% | 6.260% |
| 6 | 8.616 | 1121 | 1131 | 1142 | rBV | 615910 | 1226009 | 74.53% | 14.006% |
| 7 | 10.109 | 1367 | 1376 | 1386 | rBV | 936561 | 1645076 | 100.00% | 18.794% |
| 8 | 10.505 | 1433 | 1441 | 1449 | rBV | 82723 | 155680 | 9.46% | 1.779% |
| 9 | 10.877 | 1495 | 1502 | 1512 | rBV | 27938 | 54521 | 3.31% | 0.623% |
| 10 | 11.243 | 1558 | 1562 | 1571 | rVB2 | 18291 | 31794 | 1.93% | 0.363% |
| 11 | 11.414 | 1582 | 1590 | 1602 | rBV | 900493 | 1423111 | 86.51% | 16.258% |
| 12 | 12.401 | 1745 | 1752 | 1762 | rBV2 | 629124 | 1046882 | 63.64% | 11.960% |
| 13 | 13.340 | 1900 | 1906 | 1916 | rVB | 670030 | 1050083 | 63.83% | 11.996% |
| 14 | 13.883 | 1990 | 1995 | 2002 | rVB | 12944 | 23563 | 1.43% | 0.269% |
| 15 | 15.224 | 2207 | 2215 | 2220 | rVB3 | 10854 | 18508 | 1.13% | 0.211% |

Sum of corrected areas: 8753385

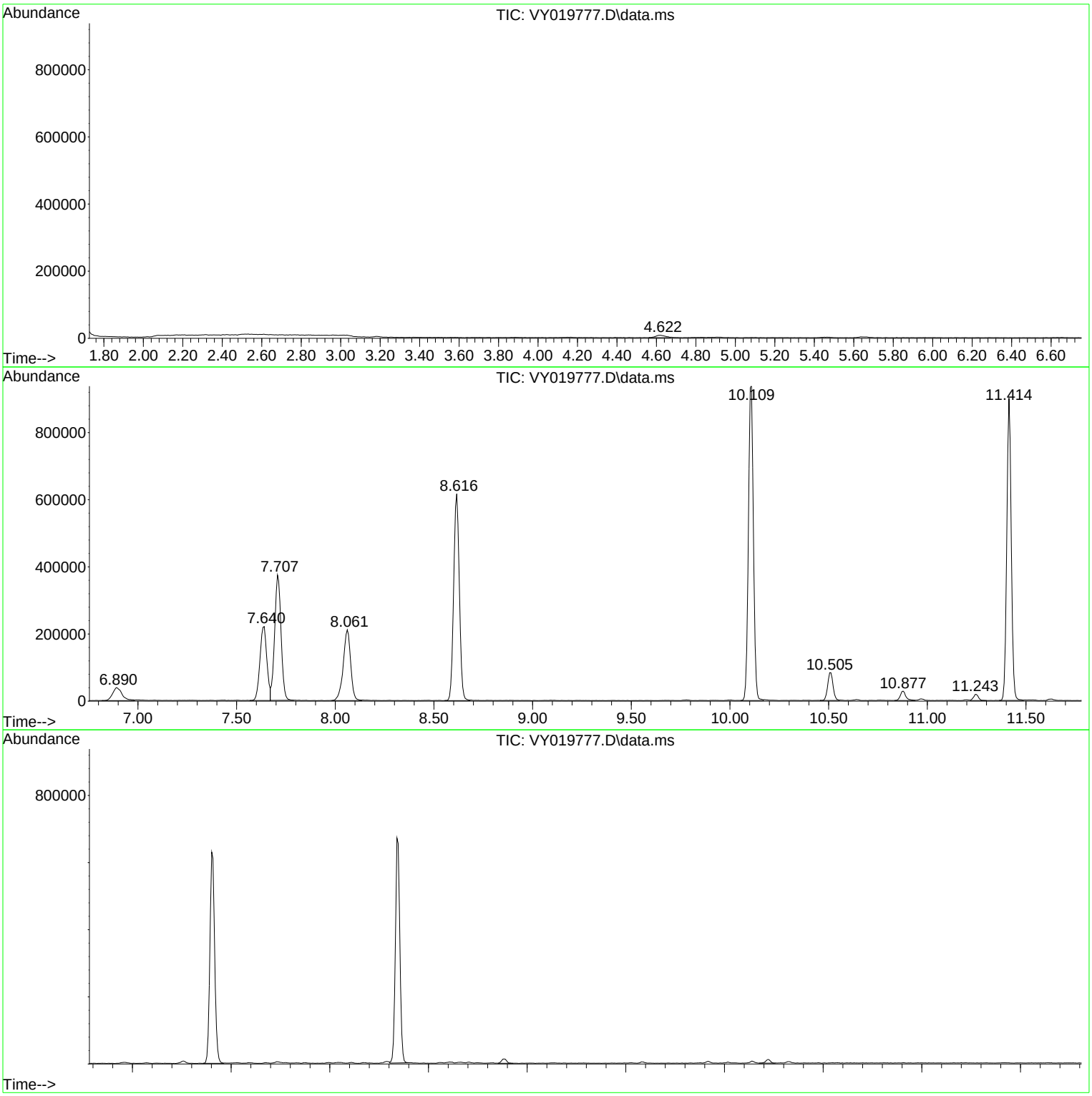
Sample Results: **VY019777.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.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\VY100324\
Data File : VY019777.D
Acq On : 03 Oct 2024 10:17
Operator : SY/MD
Sample : VY1003SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019769.D
Acq On : 02 Oct 2024 16:56
Operator : SY/MD
Sample : VY1002SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 03 02:05:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBS02

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 265847 | 50.000 | ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 469139 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 394802 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 189008 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 147052 | 59.736 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 119.480% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 143687 | 54.019 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 108.040% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 512402 | 52.081 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 104.160% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 188139 | 49.733 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 99.460% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 33161 | 20.397 | ug/l | 94 |
| 3) Chloromethane | 2.068 | 50 | 42431 | 19.291 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 48953 | 20.583 | ug/l | 98 |
| 5) Bromomethane | 2.592 | 94 | 33687 | 23.059 | ug/l | 98 |
| 6) Chloroethane | 2.733 | 64 | 33561 | 21.585 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 84979 | 21.434 | ug/l | 93 |
| 8) Diethyl Ether | 3.458 | 74 | 28359 | 21.309 | ug/l | 86 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 53520 | 21.822 | ug/l | 94 |
| 10) Methyl Iodide | 4.007 | 142 | 48071 | 15.288 | ug/l | 93 |
| 11) Tert butyl alcohol | 4.878 | 59 | 33432 | 168.168 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 44653 | 18.932 | ug/l | 87 |
| 13) Acrolein | 3.665 | 56 | 9672 | 92.004 | ug/l | 96 |
| 14) Allyl chloride | 4.385 | 41 | 82184 | 19.430 | ug/l # | 92 |
| 15) Acrylonitrile | 5.061 | 53 | 69116 | 120.448 | ug/l | 98 |
| 16) Acetone | 3.873 | 43 | 74387 | 126.841 | ug/l # | 84 |
| 17) Carbon Disulfide | 4.110 | 76 | 81719 | 12.823 | ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 35680 | 22.419 | ug/l | 92 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 154047 | 23.060 | ug/l | 96 |
| 20) Methylene Chloride | 4.622 | 84 | 60640 | 22.673 | ug/l # | 90 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 48410 | 18.725 | ug/l | 92 |
| 22) Diisopropyl ether | 6.025 | 45 | 199133 | 22.926 | ug/l | 93 |
| 23) Vinyl Acetate | 5.964 | 43 | 554846 | 111.835 | ug/l # | 93 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 109164 | 22.397 | ug/l | 96 |
| 25) 2-Butanone | 6.903 | 43 | 103183 | 123.707 | ug/l # | 87 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 99517 | 22.635 | ug/l | 93 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 67872 | 21.613 | ug/l | 85 |
| 28) Bromochloromethane | 7.250 | 49 | 44060 | 21.485 | ug/l | 81 |
| 29) Tetrahydrofuran | 7.268 | 42 | 57340 | 113.065 | ug/l | 86 |
| 30) Chloroform | 7.421 | 83 | 118411 | 23.798 | ug/l | 96 |
| 31) Cyclohexane | 7.701 | 56 | 77891 | 17.680 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 100220 | 22.472 | ug/l | 96 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 69773 | 19.277 | ug/l | 96 |
| 37) Ethyl Acetate | 6.988 | 43 | 42610 | 22.977 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 82848 | 20.298 | ug/l | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 84038 | 17.447 | ug/l | 91 |
| 40) Benzene | 8.085 | 78 | 226600 | 20.327 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019769.D
Acq On : 02 Oct 2024 16:56
Operator : SY/MD
Sample : VY1002SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 03 02:05:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBS02

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 24222 | 22.407 ug/l # | 85 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 68869 | 22.958 ug/l | 96 |
| 43) Isopropyl Acetate | 8.201 | 43 | 87258 | 22.396 ug/l # | 89 |
| 44) Trichloroethene | 8.866 | 130 | 55940 | 19.511 ug/l | 87 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 60729 | 22.283 ug/l | 97 |
| 46) Dibromomethane | 9.231 | 93 | 32729 | 21.960 ug/l | 94 |
| 47) Bromodichloromethane | 9.420 | 83 | 90942 | 22.700 ug/l | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 38102 | 20.709 ug/l | 85 |
| 49) 1,4-Dioxane | 9.231 | 88 | 7836 | 446.621 ug/l # | 89 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 223605 | 114.077 ug/l | 91 |
| 52) Toluene | 10.170 | 92 | 147219 | 20.533 ug/l | 97 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 79233 | 20.747 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 91096 | 20.485 ug/l # | 87 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 47304 | 22.984 ug/l | 98 |
| 56) Ethyl methacrylate | 10.438 | 69 | 65261 | 20.874 ug/l # | 78 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 79814 | 22.560 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 155306 | 107.027 ug/l | 96 |
| 59) 2-Hexanone | 10.756 | 43 | 156027 | 108.576 ug/l | 89 |
| 60) Dibromochloromethane | 10.908 | 129 | 59136 | 21.720 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 41347 | 21.561 ug/l | 98 |
| 64) Tetrachloroethene | 10.646 | 164 | 50500 | 20.656 ug/l | 95 |
| 65) Chlorobenzene | 11.438 | 112 | 166719 | 21.468 ug/l | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 59970 | 22.303 ug/l | 97 |
| 67) Ethyl Benzene | 11.518 | 91 | 291817 | 21.148 ug/l | 98 |
| 68) m/p-Xylenes | 11.627 | 106 | 213225 | 40.866 ug/l | 91 |
| 69) o-Xylene | 11.950 | 106 | 105971 | 20.767 ug/l | 93 |
| 70) Styrene | 11.963 | 104 | 181325 | 21.047 ug/l | 95 |
| 71) Bromoform | 12.127 | 173 | 32274 | 21.015 ug/l # | 95 |
| 73) Isopropylbenzene | 12.249 | 105 | 290217 | 21.165 ug/l | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 78028 | 20.924 ug/l # | 88 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 55925 | 22.978 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 35835m | 20.228 ug/l | |
| 77) Bromobenzene | 12.530 | 156 | 63112 | 20.753 ug/l | 88 |
| 78) n-propylbenzene | 12.591 | 91 | 345001 | 21.228 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 198636 | 20.972 ug/l | 97 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 234253 | 21.014 ug/l | 95 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 17321 | 18.770 ug/l | 89 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 203745 | 20.924 ug/l | 95 |
| 83) tert-Butylbenzene | 12.993 | 119 | 220468 | 21.847 ug/l | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 229709 | 20.818 ug/l | 96 |
| 85) sec-Butylbenzene | 13.170 | 105 | 313731 | 21.400 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 255890 | 21.334 ug/l | 96 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 126148 | 21.347 ug/l | 97 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 124892 | 21.296 ug/l | 95 |
| 89) n-Butylbenzene | 13.615 | 91 | 246675 | 21.513 ug/l | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 51835 | 20.770 ug/l | 90 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 113462 | 21.517 ug/l | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 8667 | 21.367 ug/l | 79 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 60884 | 18.984 ug/l | 97 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 34131 | 19.921 ug/l | 98 |
| 95) Naphthalene | 15.139 | 128 | 116851 | 18.193 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 51767 | 18.870 ug/l | 95 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019769.D
Acq On : 02 Oct 2024 16:56
Operator : SY/MD
Sample : VY1002SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 03 02:05:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBS02

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

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

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

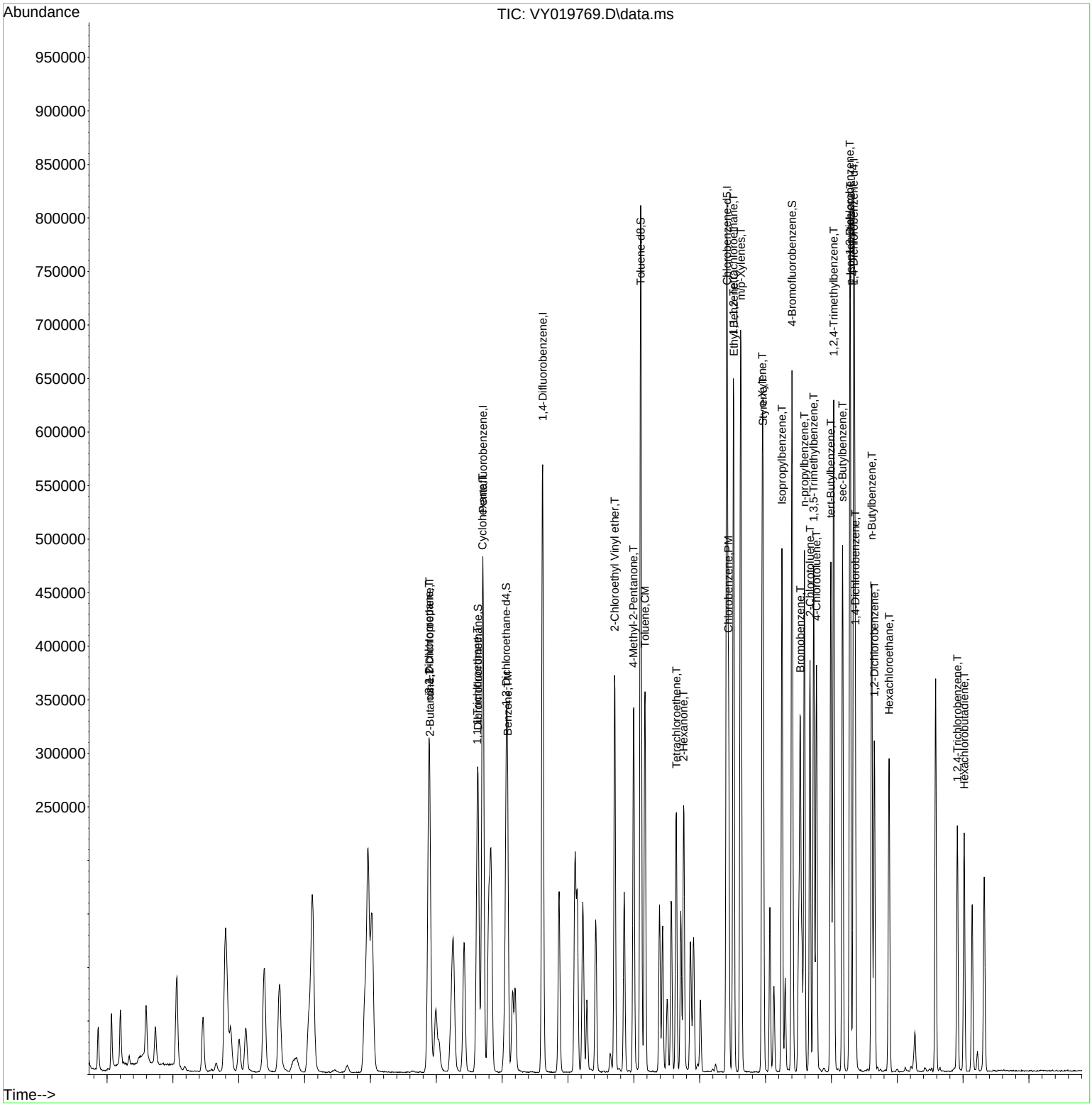
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019769.D
Acq On : 02 Oct 2024 16:56
Operator : SY/MD
Sample : VY1002SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 03 02:05:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBS02

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019778.D
Acq On : 03 Oct 2024 11:01
Operator : SY/MD
Sample : VY1003SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 01:22:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBS01

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 265491 | 50.000 | ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 467884 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 391562 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 181129 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 148068 | 60.230 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 120.460% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 151062 | 56.944 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 113.880% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 545411 | 55.585 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 111.180% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 198123 | 52.513 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 105.020% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 32963 | 20.282 | ug/l | 96 |
| 3) Chloromethane | 2.074 | 50 | 37698 | 17.162 | ug/l | 100 |
| 4) Vinyl Chloride | 2.208 | 62 | 44743 | 18.838 | ug/l | 99 |
| 5) Bromomethane | 2.598 | 94 | 31592 | 21.654 | ug/l | 99 |
| 6) Chloroethane | 2.738 | 64 | 32637 | 21.019 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 81559 | 20.599 | ug/l | 98 |
| 8) Diethyl Ether | 3.464 | 74 | 26101 | 19.639 | ug/l | 83 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 52406 | 21.396 | ug/l | 94 |
| 10) Methyl Iodide | 4.007 | 142 | 46109 | 14.683 | ug/l | 91 |
| 11) Tert butyl alcohol | 4.872 | 59 | 24640 | 124.109 | ug/l # | 84 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 43623 | 18.520 | ug/l | 86 |
| 13) Acrolein | 3.665 | 56 | 8446 | 78.541 | ug/l | 95 |
| 14) Allyl chloride | 4.391 | 41 | 80441 | 19.043 | ug/l # | 92 |
| 15) Acrylonitrile | 5.067 | 53 | 59212 | 103.327 | ug/l | 98 |
| 16) Acetone | 3.872 | 43 | 74433 | 127.089 | ug/l # | 81 |
| 17) Carbon Disulfide | 4.110 | 76 | 75134 | 11.806 | ug/l | 97 |
| 18) Methyl Acetate | 4.391 | 43 | 28668 | 18.037 | ug/l | 90 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 140929 | 21.125 | ug/l | 99 |
| 20) Methylene Chloride | 4.622 | 84 | 53273 | 19.945 | ug/l | 90 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 47588 | 18.432 | ug/l | 93 |
| 22) Diisopropyl ether | 6.018 | 45 | 193614 | 22.321 | ug/l | 89 |
| 23) Vinyl Acetate | 5.964 | 43 | 505388 | 102.003 | ug/l | 93 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 106291 | 21.837 | ug/l | 95 |
| 25) 2-Butanone | 6.890 | 43 | 93526 | 112.279 | ug/l # | 82 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 98832 | 22.510 | ug/l | 94 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 65631 | 20.927 | ug/l | 86 |
| 28) Bromochloromethane | 7.244 | 49 | 43248 | 21.117 | ug/l # | 81 |
| 29) Tetrahydrofuran | 7.262 | 42 | 48967 | 96.684 | ug/l # | 85 |
| 30) Chloroform | 7.421 | 83 | 113342 | 22.810 | ug/l | 97 |
| 31) Cyclohexane | 7.701 | 56 | 76341 | 17.351 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 97967 | 21.996 | ug/l | 96 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 68482 | 18.972 | ug/l | 94 |
| 37) Ethyl Acetate | 6.988 | 43 | 36337 | 19.647 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 80948 | 19.886 | ug/l | 96 |
| 39) Methylcyclohexane | 9.109 | 83 | 81244 | 16.913 | ug/l | 90 |
| 40) Benzene | 8.085 | 78 | 223076 | 20.064 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019778.D
Acq On : 03 Oct 2024 11:01
Operator : SY/MD
Sample : VY1003SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 01:22:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.225 | 41 | 23957 | 22.221 ug/l # | 80 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 64404 | 21.527 ug/l | 94 |
| 43) Isopropyl Acetate | 8.195 | 43 | 73733 | 18.975 ug/l # | 91 |
| 44) Trichloroethene | 8.865 | 130 | 55251 | 19.323 ug/l | 95 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 57553 | 21.174 ug/l | 96 |
| 46) Dibromomethane | 9.225 | 93 | 30205 | 20.321 ug/l | 93 |
| 47) Bromodichloromethane | 9.426 | 83 | 87237 | 21.834 ug/l | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 33155 | 18.069 ug/l | 83 |
| 49) 1,4-Dioxane | 9.231 | 88 | 6951 | 397.242 ug/l # | 94 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 189493 | 96.934 ug/l | 90 |
| 52) Toluene | 10.170 | 92 | 140908 | 19.706 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 75078 | 19.712 ug/l | 98 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 86327 | 19.465 ug/l # | 86 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 43850 | 21.363 ug/l | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 57132 | 18.323 ug/l # | 79 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 73186 | 20.742 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 140033 | 96.761 ug/l | 98 |
| 59) 2-Hexanone | 10.761 | 43 | 140882 | 98.300 ug/l | 87 |
| 60) Dibromochloromethane | 10.908 | 129 | 55979 | 20.616 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 36748 | 19.214 ug/l | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 45528 | 18.776 ug/l | 90 |
| 65) Chlorobenzene | 11.438 | 112 | 162168 | 21.055 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 56357 | 21.133 ug/l | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 283781 | 20.736 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 208804 | 40.350 ug/l | 92 |
| 69) o-Xylene | 11.950 | 106 | 104267 | 20.603 ug/l | 94 |
| 70) Styrene | 11.969 | 104 | 174601 | 20.434 ug/l | 96 |
| 71) Bromoform | 12.133 | 173 | 29045 | 19.069 ug/l # | 97 |
| 73) Isopropylbenzene | 12.249 | 105 | 289986 | 22.068 ug/l | 98 |
| 74) N-amyl acetate | 12.066 | 43 | 66740 | 18.675 ug/l # | 87 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 50094 | 21.478 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 33844m | 19.935 ug/l | |
| 77) Bromobenzene | 12.529 | 156 | 59812 | 20.523 ug/l | 88 |
| 78) n-propylbenzene | 12.590 | 91 | 340804 | 21.882 ug/l | 98 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 201005 | 22.145 ug/l | 93 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 229954 | 21.526 ug/l | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 15208 | 17.197 ug/l # | 85 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 197223 | 21.135 ug/l | 96 |
| 83) tert-Butylbenzene | 12.993 | 119 | 211207 | 21.840 ug/l | 93 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 230554 | 21.803 ug/l | 97 |
| 85) sec-Butylbenzene | 13.176 | 105 | 317013 | 22.565 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 255470 | 22.226 ug/l | 96 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 122999 | 21.720 ug/l | 97 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 121895 | 21.689 ug/l | 97 |
| 89) n-Butylbenzene | 13.615 | 91 | 242336 | 22.053 ug/l | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 50076 | 20.938 ug/l | 92 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 109156 | 21.600 ug/l | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 7679 | 19.755 ug/l | 74 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 59215 | 19.266 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 33649 | 20.494 ug/l | 98 |
| 95) Naphthalene | 15.139 | 128 | 105678 | 17.170 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 49449 | 18.809 ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019778.D
Acq On : 03 Oct 2024 11:01
Operator : SY/MD
Sample : VY1003SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 01:22:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024

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

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

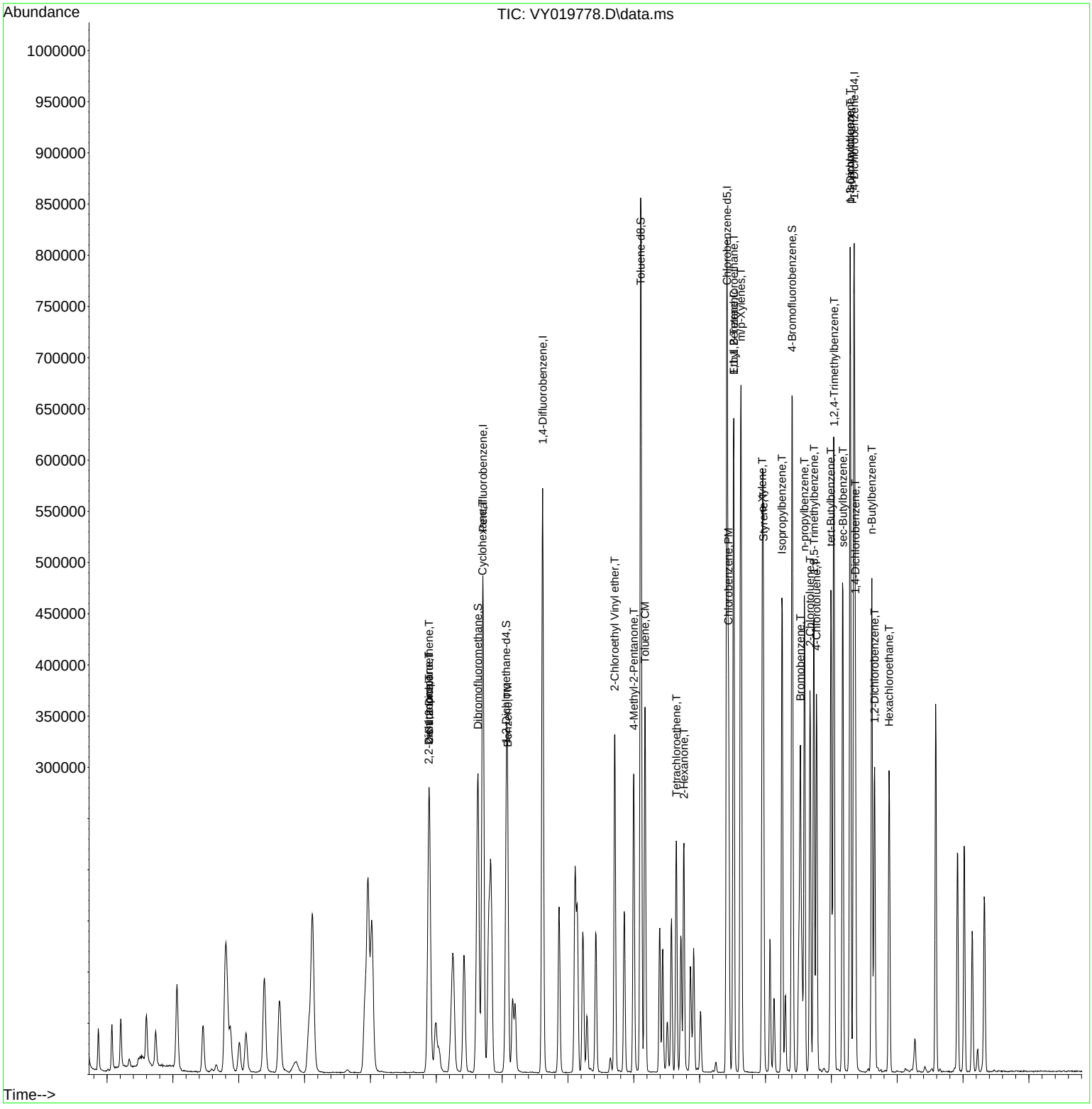
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100324\
Data File : VY019778.D
Acq On : 03 Oct 2024 11:01
Operator : SY/MD
Sample : VY1003SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 01:22:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1003SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/04/2024
Supervised By :Semsettin Yesilyurt 10/04/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019770.D
Acq On : 02 Oct 2024 17:19
Operator : SY/MD
Sample : VY1002SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 03 02:06:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBSD02

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 278113 | 50.000 | ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 490887 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 408200 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 189650 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 141910 | 55.105 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 110.220% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 140579 | 50.509 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 101.020% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 505421 | 49.096 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.200% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 182595 | 46.129 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 92.260% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 35521 | 20.992 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 42846 | 18.621 | ug/l | 100 |
| 4) Vinyl Chloride | 2.208 | 62 | 50565 | 20.323 | ug/l | 97 |
| 5) Bromomethane | 2.592 | 94 | 34920 | 22.849 | ug/l | 95 |
| 6) Chloroethane | 2.739 | 64 | 37897 | 23.299 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 89647 | 21.614 | ug/l | 97 |
| 8) Diethyl Ether | 3.458 | 74 | 30009 | 21.555 | ug/l | 89 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 55997 | 21.825 | ug/l | 96 |
| 10) Methyl Iodide | 4.007 | 142 | 53938 | 16.397 | ug/l | 92 |
| 11) Tert butyl alcohol | 4.860 | 59 | 33072 | 159.021 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 47017 | 19.055 | ug/l | 85 |
| 13) Acrolein | 3.659 | 56 | 7377 | 62.960 | ug/l | 95 |
| 14) Allyl chloride | 4.385 | 41 | 86685 | 19.590 | ug/l # | 91 |
| 15) Acrylonitrile | 5.061 | 53 | 71696 | 119.433 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 75764 | 123.491 | ug/l # | 87 |
| 17) Carbon Disulfide | 4.110 | 76 | 85541 | 12.831 | ug/l | 100 |
| 18) Methyl Acetate | 4.391 | 43 | 36692 | 22.038 | ug/l | 89 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 159783 | 22.864 | ug/l | 99 |
| 20) Methylene Chloride | 4.622 | 84 | 68049 | 24.321 | ug/l | 92 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 51790 | 19.149 | ug/l | 89 |
| 22) Diisopropyl ether | 6.025 | 45 | 210653 | 23.183 | ug/l | 93 |
| 23) Vinyl Acetate | 5.964 | 43 | 580462 | 111.838 | ug/l # | 92 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 116487 | 22.845 | ug/l | 98 |
| 25) 2-Butanone | 6.896 | 43 | 108656 | 124.523 | ug/l # | 85 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 105111 | 22.853 | ug/l | 94 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 72054 | 21.932 | ug/l | 86 |
| 28) Bromochloromethane | 7.244 | 49 | 49615 | 23.127 | ug/l | 81 |
| 29) Tetrahydrofuran | 7.262 | 42 | 60253 | 113.569 | ug/l # | 86 |
| 30) Chloroform | 7.421 | 83 | 125678 | 24.145 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 83418 | 18.099 | ug/l | 91 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 104982 | 22.502 | ug/l | 94 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 75355 | 19.897 | ug/l | 96 |
| 37) Ethyl Acetate | 6.988 | 43 | 42390 | 21.845 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 87220 | 20.423 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 88914 | 17.642 | ug/l # | 88 |
| 40) Benzene | 8.079 | 78 | 240503 | 20.618 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019770.D
Acq On : 02 Oct 2024 17:19
Operator : SY/MD
Sample : VY1002SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 03 02:06:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBSD02

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 26089 | 23.064 ug/l # | 85 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 70954 | 22.605 ug/l | 95 |
| 43) Isopropyl Acetate | 8.195 | 43 | 90907 | 22.299 ug/l # | 89 |
| 44) Trichloroethene | 8.866 | 130 | 59848 | 19.950 ug/l | 89 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 63445 | 22.248 ug/l | 98 |
| 46) Dibromomethane | 9.231 | 93 | 33860 | 21.712 ug/l | 95 |
| 47) Bromodichloromethane | 9.420 | 83 | 96065 | 22.916 ug/l | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 40104 | 20.831 ug/l | 84 |
| 49) 1,4-Dioxane | 9.231 | 88 | 8073 | 439.743 ug/l # | 90 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 228449 | 111.385 ug/l | 92 |
| 52) Toluene | 10.170 | 92 | 156814 | 20.903 ug/l | 97 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 82071 | 20.538 ug/l | 95 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 95473 | 20.518 ug/l # | 87 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 49259 | 22.873 ug/l | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 67736 | 20.705 ug/l # | 77 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 82959 | 22.410 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 146627 | 96.569 ug/l | 98 |
| 59) 2-Hexanone | 10.756 | 43 | 160940 | 107.033 ug/l | 89 |
| 60) Dibromochloromethane | 10.908 | 129 | 62961 | 22.101 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 42380 | 21.121 ug/l | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 52162 | 20.635 ug/l | 96 |
| 65) Chlorobenzene | 11.438 | 112 | 177491 | 22.105 ug/l | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 62996 | 22.660 ug/l | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 312438 | 21.899 ug/l | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 228512 | 42.358 ug/l | 91 |
| 69) o-Xylene | 11.950 | 106 | 112805 | 21.381 ug/l | 92 |
| 70) Styrene | 11.963 | 104 | 192323 | 21.591 ug/l | 95 |
| 71) Bromoform | 12.127 | 173 | 33443 | 21.061 ug/l # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 311789 | 22.662 ug/l | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 80192 | 21.431 ug/l # | 89 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 58451 | 23.935 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 36756m | 20.678 ug/l | |
| 77) Bromobenzene | 12.530 | 156 | 65368 | 21.422 ug/l | 86 |
| 78) n-propylbenzene | 12.591 | 91 | 368488 | 22.596 ug/l | 98 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 213563 | 22.472 ug/l | 96 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 253254 | 22.642 ug/l | 96 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 17543 | 18.946 ug/l | 87 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 223467 | 22.872 ug/l | 94 |
| 83) tert-Butylbenzene | 12.993 | 119 | 231747 | 22.887 ug/l | 95 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 247303 | 22.336 ug/l | 97 |
| 85) sec-Butylbenzene | 13.170 | 105 | 338615 | 23.019 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 272700 | 22.659 ug/l | 96 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 135841 | 22.910 ug/l | 97 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 134550 | 22.865 ug/l | 96 |
| 89) n-Butylbenzene | 13.615 | 91 | 263068 | 22.864 ug/l | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 56524 | 22.572 ug/l | 88 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 120895 | 22.849 ug/l | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 9200 | 22.604 ug/l | 78 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 64597 | 20.073 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 36834 | 21.425 ug/l | 98 |
| 95) Naphthalene | 15.139 | 128 | 125872 | 19.532 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 54325 | 19.735 ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019770.D
Acq On : 02 Oct 2024 17:19
Operator : SY/MD
Sample : VY1002SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 03 02:06:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBSD02

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024

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

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

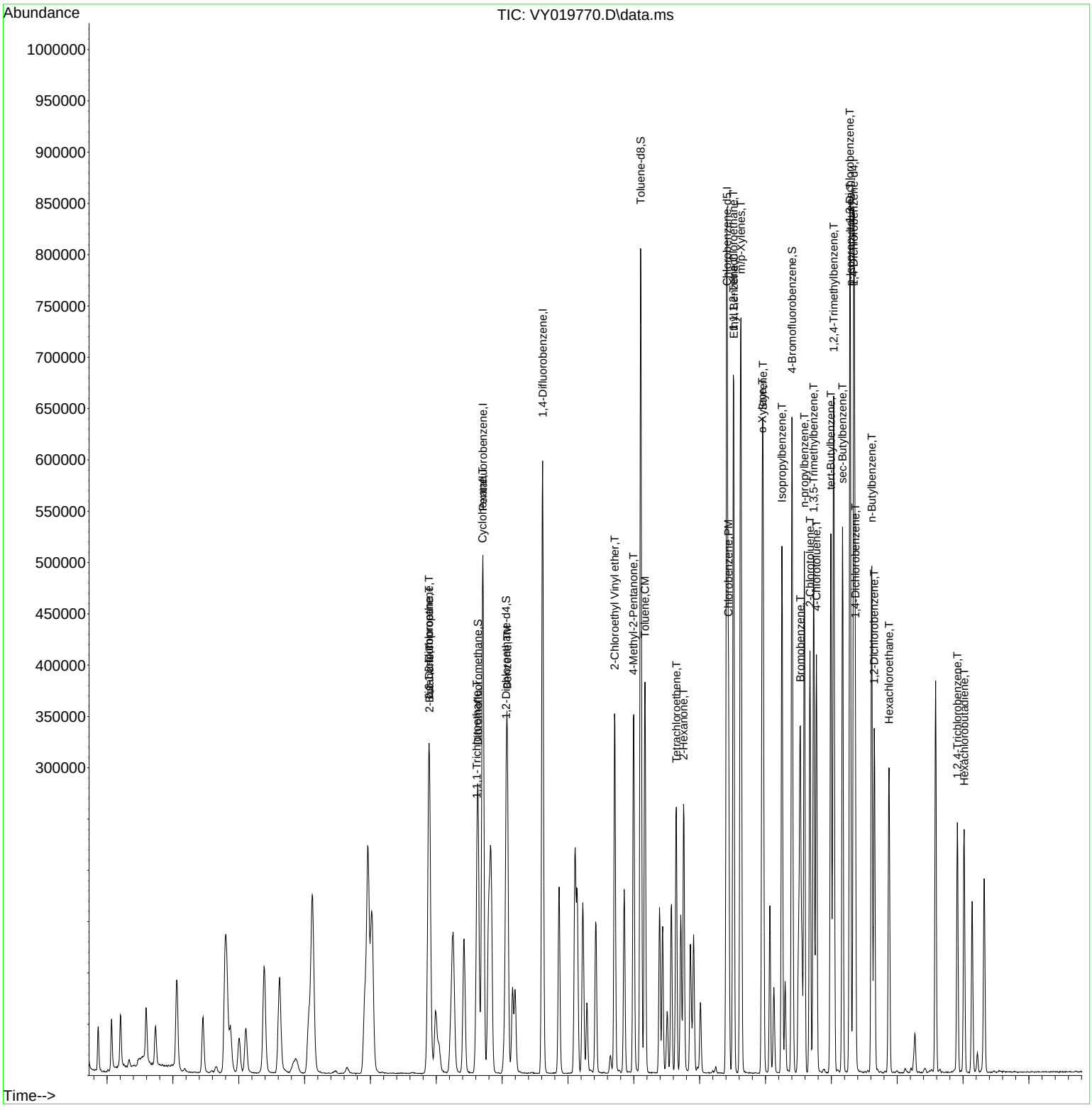
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100224\
Data File : VY019770.D
Acq On : 02 Oct 2024 17:19
Operator : SY/MD
Sample : VY1002SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 03 02:06:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1002SBSD02

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/03/2024
Supervised By :Mahesh Dadoda 10/03/2024



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# Manual Integration Report

| Sequence: | VY090924 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VY019454.D | 1,2,3-Trichloropropane | MMDadoda | 9/10/2024 10:24:56 AM | SAM | 9/10/2024 10:27:27 AM | Peak Integrated by Software |
| VSTDICC005 | VY019454.D | Acrolein | MMDadoda | 9/10/2024 10:24:56 AM | SAM | 9/10/2024 10:27:27 AM | Peak Integrated by Software |
| VSTDICC010 | VY019455.D | 1,2,3-Trichloropropane | MMDadoda | 9/10/2024 10:24:57 AM | SAM | 9/10/2024 10:27:28 AM | Peak Integrated by Software |
| VSTDICC020 | VY019456.D | 1,2,3-Trichloropropane | MMDadoda | 9/10/2024 10:24:58 AM | SAM | 9/10/2024 10:27:29 AM | Peak Integrated by Software |
| VSTDICCC050 | VY019457.D | 1,2,3-Trichloropropane | MMDadoda | 9/10/2024 10:25:00 AM | SAM | 9/10/2024 10:27:30 AM | Peak Integrated by Software |
| VSTDICC100 | VY019458.D | 1,2,3-Trichloropropane | MMDadoda | 9/10/2024 10:25:01 AM | SAM | 9/10/2024 10:27:32 AM | Peak Integrated by Software |
| VSTDICC150 | VY019459.D | 1,2,3-Trichloropropane | MMDadoda | 9/10/2024 10:25:04 AM | SAM | 9/10/2024 10:27:33 AM | Peak Integrated by Software |
| VSTDICV050 | VY019461.D | 1,2,3-Trichloropropane | MMDadoda | 9/10/2024 10:25:05 AM | SAM | 9/10/2024 10:27:34 AM | Peak Integrated by Software |
| VSTDCCC050 | VY019474.D | 1,2,3-Trichloropropane | MMDadoda | 9/10/2024 10:25:10 AM | SAM | 9/10/2024 10:27:39 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY100224 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY019756.D | 1,2,3-Trichloropropane | SAM | 10/3/2024 4:56:03 PM | MMDadoda | 10/3/2024 4:58:18 PM | Peak Integrated by Software |
| VY1002SBS02 | VY019769.D | 1,2,3-Trichloropropane | SAM | 10/3/2024 4:56:06 PM | MMDadoda | 10/3/2024 4:58:23 PM | Peak Integrated by Software |
| VY1002SBSD02 | VY019770.D | 1,2,3-Trichloropropane | SAM | 10/3/2024 4:56:07 PM | MMDadoda | 10/3/2024 4:58:25 PM | Peak Integrated by Software |
| VSTDCCC050 | VY019774.D | 1,2,3-Trichloropropane | SAM | 10/3/2024 4:56:09 PM | MMDadoda | 10/3/2024 4:58:26 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vy100324 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY019776.D | 1,2,3-Trichloropropane | MMDadoda | 10/4/2024 10:17:13 AM | SAM | 10/4/2024 10:17:43 AM | Peak Integrated by Software |
| VY1003SBS01 | VY019778.D | 1,2,3-Trichloropropane | MMDadoda | 10/4/2024 10:16:47 AM | SAM | 10/4/2024 10:17:43 AM | Peak Integrated by Software |
| VSTDCCC050 | VY019790.D | 1,2,3-Trichloropropane | MMDadoda | 10/4/2024 10:16:51 AM | SAM | 10/4/2024 10:17:46 AM | Peak Integrated by Software |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY090924

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/10/2024 10:25:17 AM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 9/10/2024 10:27:41 AM | | | | |
| SubDirectory | VY090924 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y090924s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130172 |
| Initial Calibration Stds | VP130173,VP130174,VP130175,VP130176,VP130177,VP130178 |
| CCC | VP130180,VP130181 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP130179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY019453.D | 09 Sep 2024 09:20 | SY/MD | Ok |
| 2 | VSTDICC005 | VY019454.D | 09 Sep 2024 09:52 | SY/MD | Ok,M |
| 3 | VSTDICC010 | VY019455.D | 09 Sep 2024 10:15 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VY019456.D | 09 Sep 2024 10:44 | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VY019457.D | 09 Sep 2024 11:07 | SY/MD | Ok,M |
| 6 | VSTDICC100 | VY019458.D | 09 Sep 2024 11:29 | SY/MD | Ok,M |
| 7 | VSTDICC150 | VY019459.D | 09 Sep 2024 11:53 | SY/MD | Ok,M |
| 8 | VIBLK | VY019460.D | 09 Sep 2024 12:16 | SY/MD | Ok |
| 9 | VSTDICV050 | VY019461.D | 09 Sep 2024 13:05 | SY/MD | Ok,M |
| 10 | VY0909SBL01 | VY019462.D | 09 Sep 2024 13:34 | SY/MD | Ok |
| 11 | VY0909SBS01 | VY019463.D | 09 Sep 2024 13:57 | SY/MD | Ok,M |
| 12 | VY0909SBSD01 | VY019464.D | 09 Sep 2024 14:26 | SY/MD | Ok,M |
| 13 | P3891-01 | VY019465.D | 09 Sep 2024 15:10 | SY/MD | Ok |
| 14 | P3852-02 | VY019466.D | 09 Sep 2024 15:33 | SY/MD | Ok |
| 15 | P3852-04 | VY019467.D | 09 Sep 2024 15:57 | SY/MD | ReRun |
| 16 | P3857-03RE | VY019468.D | 09 Sep 2024 16:20 | SY/MD | Confirms |
| 17 | P3892-01 | VY019469.D | 09 Sep 2024 16:43 | SY/MD | ReRun |
| 18 | P3905-05 | VY019470.D | 09 Sep 2024 17:07 | SY/MD | Ok |
| 19 | P3905-03 | VY019471.D | 09 Sep 2024 17:30 | SY/MD | Ok |
| 20 | P3905-01 | VY019472.D | 09 Sep 2024 17:54 | SY/MD | Ok |
| 21 | P3906-15 | VY019473.D | 09 Sep 2024 18:17 | SY/MD | ReRun |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY090924

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/10/2024 10:25:17 AM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 9/10/2024 10:27:41 AM | | | | |
| SubDirectory | VY090924 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y090924s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130172 |
| Initial Calibration Stds | VP130173,VP130174,VP130175,VP130176,VP130177,VP130178 |
| CCC | VP130180,VP130181 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP130179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | VSTDCCC050 | VY019474.D | 09 Sep 2024 18:40 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY100224

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 10/3/2024 4:56:16 PM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/3/2024 4:58:28 PM | | | | |
| SubDirectory | VY100224 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y090924s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130628 |
| Initial Calibration Stds | |
| CCC | VP130629,VP130630 |
| 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 | VY019755.D | 02 Oct 2024 08:37 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY019756.D | 02 Oct 2024 09:39 | SY/MD | Ok,M |
| 3 | VY1002SBL01 | VY019757.D | 02 Oct 2024 10:13 | SY/MD | Ok |
| 4 | VY1002SBS01 | VY019758.D | 02 Oct 2024 12:36 | SY/MD | Not Ok |
| 5 | P4225-01 | VY019759.D | 02 Oct 2024 13:03 | SY/MD | Not Ok |
| 6 | P4236-06RE | VY019760.D | 02 Oct 2024 13:26 | SY/MD | Confirms |
| 7 | P4236-10 | VY019761.D | 02 Oct 2024 13:49 | SY/MD | Not Ok |
| 8 | P4236-14RE | VY019762.D | 02 Oct 2024 14:13 | SY/MD | Confirms |
| 9 | P4236-02 | VY019763.D | 02 Oct 2024 14:36 | SY/MD | Not Ok |
| 10 | P4232-03 | VY019764.D | 02 Oct 2024 15:00 | SY/MD | Ok |
| 11 | P4258-03 | VY019765.D | 02 Oct 2024 15:23 | SY/MD | ReRun |
| 12 | P4242-03 | VY019766.D | 02 Oct 2024 15:47 | SY/MD | ReRun |
| 13 | P4257-02 | VY019767.D | 02 Oct 2024 16:10 | SY/MD | Ok |
| 14 | P4255-01 | VY019768.D | 02 Oct 2024 16:33 | SY/MD | Ok |
| 15 | VY1002SBS02 | VY019769.D | 02 Oct 2024 16:56 | SY/MD | Ok,M |
| 16 | VY1002SBSD02 | VY019770.D | 02 Oct 2024 17:19 | SY/MD | Ok,M |
| 17 | P4254-02 | VY019771.D | 02 Oct 2024 17:42 | SY/MD | Ok |
| 18 | P4254-01 | VY019772.D | 02 Oct 2024 18:06 | SY/MD | Not Ok |
| 19 | VIBLK | VY019773.D | 02 Oct 2024 18:29 | SY/MD | Ok |
| 20 | VSTDCCC050 | VY019774.D | 02 Oct 2024 18:52 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY100324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 10/4/2024 10:17:50 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/4/2024 10:18:45 AM | | |
| SubDirectory | VY100324 | HP Acquire Method | | HP Processing Method | 82y090924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130673 |
| Initial Calibration Stds | |
| CCC | VP130675,VP130676 |
| Internal Standard/PEM | VP130432 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY019775.D | 03 Oct 2024 08:34 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY019776.D | 03 Oct 2024 09:44 | SY/MD | Ok,M |
| 3 | VY1003SBL01 | VY019777.D | 03 Oct 2024 10:17 | SY/MD | Ok |
| 4 | VY1003SBS01 | VY019778.D | 03 Oct 2024 11:01 | SY/MD | Ok,M |
| 5 | VY1003SBSD01 | VY019779.D | 03 Oct 2024 11:29 | SY/MD | Not Ok |
| 6 | P4258-03RE | VY019780.D | 03 Oct 2024 12:10 | SY/MD | Confirms |
| 7 | P4242-03 | VY019781.D | 03 Oct 2024 12:34 | SY/MD | Ok |
| 8 | P4277-01 | VY019782.D | 03 Oct 2024 12:57 | SY/MD | Not Ok |
| 9 | P4277-02 | VY019783.D | 03 Oct 2024 13:21 | SY/MD | Not Ok |
| 10 | P4276-01 | VY019784.D | 03 Oct 2024 13:44 | SY/MD | Ok |
| 11 | P4273-02 | VY019785.D | 03 Oct 2024 14:07 | SY/MD | ReRun |
| 12 | P4275-01 | VY019786.D | 03 Oct 2024 14:31 | SY/MD | Dilution |
| 13 | P4254-01 | VY019787.D | 03 Oct 2024 14:54 | SY/MD | Ok |
| 14 | P4254-02RE | VY019788.D | 03 Oct 2024 15:18 | SY/MD | Not Ok |
| 15 | P4270-03 | VY019789.D | 03 Oct 2024 15:41 | SY/MD | Not Ok |
| 16 | VSTDCCC050 | VY019790.D | 03 Oct 2024 16:41 | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY090924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/10/2024 10:25:17 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 9/10/2024 10:27:41 AM | | |
| SubDirectory | VY090924 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y090924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130172 |
| Initial Calibration Stds | VP130173,VP130174,VP130175,VP130176,VP130177,VP130178 |
| CCC | VP130180,VP130181 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP130179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY019453.D | 09 Sep 2024 09:20 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VY019454.D | 09 Sep 2024 09:52 | Good for DOD | SY/MD | Ok,M |
| 3 | VSTDICC010 | VSTDICC010 | VY019455.D | 09 Sep 2024 10:15 | LR-02,13 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VY019456.D | 09 Sep 2024 10:44 | %D failed for Comp. #13 in 20 PPB | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VY019457.D | 09 Sep 2024 11:07 | | SY/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VY019458.D | 09 Sep 2024 11:29 | | SY/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VY019459.D | 09 Sep 2024 11:53 | | SY/MD | Ok,M |
| 8 | VIBLK | VIBLK | VY019460.D | 09 Sep 2024 12:16 | | SY/MD | Ok |
| 9 | VSTDICV050 | ICVVY090924 | VY019461.D | 09 Sep 2024 13:05 | | SY/MD | Ok,M |
| 10 | VY0909SBL01 | VY0909SBL01 | VY019462.D | 09 Sep 2024 13:34 | | SY/MD | Ok |
| 11 | VY0909SBS01 | VY0909SBS01 | VY019463.D | 09 Sep 2024 13:57 | | SY/MD | Ok,M |
| 12 | VY0909SBSD01 | VY0909SBSD01 | VY019464.D | 09 Sep 2024 14:26 | | SY/MD | Ok,M |
| 13 | P3891-01 | AUD-SBG | VY019465.D | 09 Sep 2024 15:10 | Vial A | SY/MD | Ok |
| 14 | P3852-02 | VNJ223 | VY019466.D | 09 Sep 2024 15:33 | Vial A | SY/MD | Ok |
| 15 | P3852-04 | ETGI356 | VY019467.D | 09 Sep 2024 15:57 | Vial A Internal Standard Fail | SY/MD | ReRun |
| 16 | P3857-03RE | WC-C1-GRABRE | VY019468.D | 09 Sep 2024 16:20 | Internal Standard Fail Vial B | SY/MD | Confirms |
| 17 | P3892-01 | ARS20-005 | VY019469.D | 09 Sep 2024 16:43 | Internal Standard Fail Vial A | SY/MD | ReRun |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY090924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/10/2024 10:25:17 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 9/10/2024 10:27:41 AM | | |
| SubDirectory | VY090924 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y090924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130172 |
| Initial Calibration Stds | VP130173,VP130174,VP130175,VP130176,VP130177,VP130178 |
| CCC | VP130180,VP130181 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP130179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | P3905-05 | COMP-1 | VY019470.D | 09 Sep 2024 17:07 | Vial A | SY/MD | Ok |
| 19 | P3905-03 | TP-3B | VY019471.D | 09 Sep 2024 17:30 | Vial A | SY/MD | Ok |
| 20 | P3905-01 | TP-3A | VY019472.D | 09 Sep 2024 17:54 | Vial A | SY/MD | Ok |
| 21 | P3906-15 | SU-701-VOC-03 | VY019473.D | 09 Sep 2024 18:17 | Internal Standard Fail Vial A | SY/MD | ReRun |
| 22 | VSTDCCC050 | VSTDCCC050EC | VY019474.D | 09 Sep 2024 18:40 | | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY100224

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 10/3/2024 4:56:16 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/3/2024 4:58:28 PM | | |
| SubDirectory | VY100224 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y090924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130628 |
| Initial Calibration Stds | |
| CCC | VP130629,VP130630 |
| 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 | VY019755.D | 02 Oct 2024 08:37 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY019756.D | 02 Oct 2024 09:39 | | SY/MD | Ok,M |
| 3 | VY1002SBL01 | VY1002SBL01 | VY019757.D | 02 Oct 2024 10:13 | | SY/MD | Ok |
| 4 | VY1002SBS01 | VY1002SBS01 | VY019758.D | 02 Oct 2024 12:36 | | SY/MD | Not Ok |
| 5 | P4225-01 | TR-04-092724 | VY019759.D | 02 Oct 2024 13:03 | NOT PURGE vial-B | SY/MD | Not Ok |
| 6 | P4236-06RE | TP3-VOCRE | VY019760.D | 02 Oct 2024 13:26 | Internal Standard Fail vial-B | SY/MD | Confirms |
| 7 | P4236-10 | TP1-VOC | VY019761.D | 02 Oct 2024 13:49 | NOT PURGE vial-B | SY/MD | Not Ok |
| 8 | P4236-14RE | TP2-VOCRE | VY019762.D | 02 Oct 2024 14:13 | Internal Standard Fail vial-B | SY/MD | Confirms |
| 9 | P4236-02 | TP4-VOC | VY019763.D | 02 Oct 2024 14:36 | NOT PURGE vial-B | SY/MD | Not Ok |
| 10 | P4232-03 | TP-R-VOC | VY019764.D | 02 Oct 2024 15:00 | vial-A | SY/MD | Ok |
| 11 | P4258-03 | Chamberlain Ave | VY019765.D | 02 Oct 2024 15:23 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 12 | P4242-03 | TP-Q-VOC | VY019766.D | 02 Oct 2024 15:47 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 13 | P4257-02 | VNJ-240 | VY019767.D | 02 Oct 2024 16:10 | vial-A | SY/MD | Ok |
| 14 | P4255-01 | OR-03-100124 | VY019768.D | 02 Oct 2024 16:33 | vial-A | SY/MD | Ok |
| 15 | VY1002SBS02 | VY1002SBS02 | VY019769.D | 02 Oct 2024 16:56 | | SY/MD | Ok,M |
| 16 | VY1002SBSD02 | VY1002SBSD02 | VY019770.D | 02 Oct 2024 17:19 | | SY/MD | Ok,M |
| 17 | P4254-02 | MH-147-SLUDGE-VOC | VY019771.D | 02 Oct 2024 17:42 | Internal Standard Fail vial-A | SY/MD | Ok |
| 18 | P4254-01 | MH-147-SLUDGE | VY019772.D | 02 Oct 2024 18:06 | Not purge vial-A | SY/MD | Not Ok |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY100224

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 10/3/2024 4:56:16 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/3/2024 4:58:28 PM | | |
| SubDirectory | VY100224 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y090924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130628 |
| Initial Calibration Stds | |
| CCC | VP130629,VP130630 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | VIBLK | VIBLK | VY019773.D | 02 Oct 2024 18:29 | | SY/MD | Ok |
| 20 | VSTDCCC050 | VSTDCCC050EC | VY019774.D | 02 Oct 2024 18:52 | | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY100324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 10/4/2024 10:17:50 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/4/2024 10:18:45 AM | | |
| SubDirectory | VY100324 | HP Acquire Method | | HP Processing Method | 82y090924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130673 |
| Initial Calibration Stds | |
| CCC | VP130675,VP130676 |
| Internal Standard/PEM | VP130432 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY019775.D | 03 Oct 2024 08:34 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY019776.D | 03 Oct 2024 09:44 | | SY/MD | Ok,M |
| 3 | VY1003SBL01 | VY1003SBL01 | VY019777.D | 03 Oct 2024 10:17 | | SY/MD | Ok |
| 4 | VY1003SBS01 | VY1003SBS01 | VY019778.D | 03 Oct 2024 11:01 | | SY/MD | Ok,M |
| 5 | VY1003SBSD01 | VY1003SBSD01 | VY019779.D | 03 Oct 2024 11:29 | Recovery fail | SY/MD | Not Ok |
| 6 | P4258-03RE | Chamberlain AveRE | VY019780.D | 03 Oct 2024 12:10 | Internal Standard Fail vial-B | SY/MD | Confirms |
| 7 | P4242-03 | TP-Q-VOC | VY019781.D | 03 Oct 2024 12:34 | vial-B | SY/MD | Ok |
| 8 | P4277-01 | BU-03-10022024 | VY019782.D | 03 Oct 2024 12:57 | NOT PURGE vial-a | SY/MD | Not Ok |
| 9 | P4277-02 | BU-03-10022024 | VY019783.D | 03 Oct 2024 13:21 | Not purge vial-A | SY/MD | Not Ok |
| 10 | P4276-01 | VNJ-208 | VY019784.D | 03 Oct 2024 13:44 | vial-A | SY/MD | Ok |
| 11 | P4273-02 | AU-05-100224 | VY019785.D | 03 Oct 2024 14:07 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 12 | P4275-01 | TRE-1300 | VY019786.D | 03 Oct 2024 14:31 | Need MeOH vial-a | SY/MD | Dilution |
| 13 | P4254-01 | MH-147-SLUDGE | VY019787.D | 03 Oct 2024 14:54 | Internal standard fail | SY/MD | Ok |
| 14 | P4254-02RE | MH-147-SLUDGE-VOC | VY019788.D | 03 Oct 2024 15:18 | Internal standard fail;Confirm Concentration vial-B | SY/MD | Not Ok |
| 15 | P4270-03 | IB-2-VOC | VY019789.D | 03 Oct 2024 15:41 | Confirm Concentration vial-a | SY/MD | Not Ok |
| 16 | VSTDCCC050 | VSTDCCC050EC | VY019790.D | 03 Oct 2024 16:41 | | SY/MD | Ok,M |

M : Manual Integration

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-03** | **Chamberlain Ave** | **SOIL** | | | **10/01/24** | | | **10/01/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 10/02/24 | |
| **P4258-03RE** | **Chamberlain AveRE** | **SOIL** | | | **10/01/24** | | | **10/01/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 10/03/24 | |
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP VOA | 8260D | | | 10/03/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | | | | | | | | |

0

**Total Voc :**

**Total Concentration:**

# SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-04 | 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 |
|---|---|---|---|---|
| VN084304.D | 1 | | 10/03/24 17:27 | VN100324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 1.30 | U | 1.30 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.8 | | 74 - 125 | 100% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.6 | | 75 - 124 | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.9 | | 86 - 113 | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.2 | | 77 - 121 | 94% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 164000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 303000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 266000 | 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

# QC SUMMARY

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## Surrogate Summary

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| P4258-04 | Chamberlain Ave | 1,2-Dichloroethane-d4 | 50 | 49.9 | 100 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 48.5 | 97 | 75 | 124 |
| | | Toluene-d8 | 50 | 50.9 | 102 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 47.2 | 94 | 77 | 121 |

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# Surrogate Summary

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| VN1003WBL01 | VN1003WBL01 | 1,2-Dichloroethane-d4 | 50 | 51.9 | 104 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 51.9 | 104 | 75 | 124 |
| | | Toluene-d8 | 50 | 50.4 | 101 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 46.5 | 93 | 77 | 121 |
| VN1003WBS01 | VN1003WBS01 | 1,2-Dichloroethane-d4 | 50 | 52.8 | 106 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 54.6 | 109 | 75 | 124 |
| | | Toluene-d8 | 50 | 56.2 | 112 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 53.1 | 106 | 77 | 121 |
| VN1003WBSD0 | VN1003WBSD01 | 1,2-Dichloroethane-d4 | 50 | 54.8 | 110 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 55.0 | 110 | 75 | 124 |
| | | Toluene-d8 | 50 | 54.8 | 110 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 54.7 | 109 | 77 | 121 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8260-Low **Datafile :** VN084286.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN1003WBS01 | Vinyl chloride | 20 | 19.7 | ug/L | 99 | | | 65 | 117 | |
| | 1,1-Dichloroethene | 20 | 19.6 | ug/L | 98 | | | 74 | 110 | |
| | 2-Butanone | 100 | 98.2 | ug/L | 98 | | | 65 | 122 | |
| | Carbon Tetrachloride | 20 | 20.1 | ug/L | 101 | | | 77 | 113 | |
| | Chloroform | 20 | 20.6 | ug/L | 103 | | | 79 | 113 | |
| | Benzene | 20 | 20.2 | ug/L | 101 | | | 82 | 109 | |
| | 1,2-Dichloroethane | 20 | 20.4 | ug/L | 102 | | | 80 | 115 | |
| | Trichloroethene | 20 | 20.0 | ug/L | 100 | | | 77 | 113 | |
| | Tetrachloroethene | 20 | 20.2 | ug/L | 101 | | | 67 | 123 | |
| | Chlorobenzene | 20 | 19.7 | ug/L | 99 | | | 82 | 109 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8260-Low **Datafile :** VN084287.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN1003WBSD01 | Vinyl chloride | 20 | 19.7 | ug/L | 99 | 0 | | 65 | 117 | 20 |
| | 1,1-Dichloroethene | 20 | 19.5 | ug/L | 98 | 0 | | 74 | 110 | 20 |
| | 2-Butanone | 100 | 100 | ug/L | 100 | 2 | | 65 | 122 | 20 |
| | Carbon Tetrachloride | 20 | 20.3 | ug/L | 102 | 1 | | 77 | 113 | 20 |
| | Chloroform | 20 | 20.7 | ug/L | 104 | 1 | | 79 | 113 | 20 |
| | Benzene | 20 | 20.8 | ug/L | 104 | 3 | | 82 | 109 | 20 |
| | 1,2-Dichloroethane | 20 | 21.7 | ug/L | 109 | 7 | | 80 | 115 | 20 |
| | Trichloroethene | 20 | 19.9 | ug/L | 100 | 0 | | 77 | 113 | 20 |
| | Tetrachloroethene | 20 | 20.3 | ug/L | 102 | 1 | | 67 | 123 | 20 |
| | Chlorobenzene | 20 | 20.4 | ug/L | 102 | 3 | | 82 | 109 | 20 |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1003WBL01

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VN084285.D Lab Sample ID: VN1003WBL01

Date Analyzed: 10/03/2024 Time Analyzed: 09:42

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 |
|---|---|---|---|
| VN1003WBS01 | VN1003WBS01 | VN084286.D | 10/03/2024 |
| VN1003WBSD01 | VN1003WBSD01 | VN084287.D | 10/03/2024 |
| Chamberlain Ave | P4258-04 | VN084304.D | 10/03/2024 |

COMMENTS:

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VN084211.D BFB Injection Date: 09/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:24

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.9 |
| 75 | 30.0 - 60.0% of mass 95 | 53.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.3 |
| 173 | Less than 2.0% of mass 174 | 0.6 ( 0.8 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 71 |
| 175 | 5.0 - 9.0% of mass 174 | 5.5 ( 7.8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 69.7 ( 98.2 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.9 ( 7 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC100 | VSTDICC100 | VN084213.D | 09/30/2024 | 12:25 |
| VSTDICCC050 | VSTDICCC050 | VN084214.D | 09/30/2024 | 12:49 |
| VSTDICC020 | VSTDICC020 | VN084215.D | 09/30/2024 | 13:13 |
| VSTDICC010 | VSTDICC010 | VN084216.D | 09/30/2024 | 13:37 |
| VSTDICC005 | VSTDICC005 | VN084217.D | 09/30/2024 | 14:00 |
| VSTDICC001 | VSTDICC001 | VN084218.D | 09/30/2024 | 14:48 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VN084282.D BFB Injection Date: 10/03/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:20

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 | 20.1 |
| 75 | 30.0 - 60.0% of mass 95 | 52.6 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7.2 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 75.8 |
| 175 | 5.0 - 9.0% of mass 174 | 6.2 ( 8.2 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 75.1 ( 99.1 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5 ( 6.6 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VN084283.D | 10/03/2024 | 08:43 |
| VN1003WBL01 | VN1003WBL01 | VN084285.D | 10/03/2024 | 09:42 |
| VN1003WBS01 | VN1003WBS01 | VN084286.D | 10/03/2024 | 10:05 |
| VN1003WBSD01 | VN1003WBSD01 | VN084287.D | 10/03/2024 | 10:40 |
| Chamberlain Ave | P4258-04 | VN084304.D | 10/03/2024 | 17:27 |

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VN084283.D Date Analyzed: 10/03/2024

Instrument ID: MSVOA_N Time Analyzed: 08:43

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 | 169381 | 8.22 | 285966 | 9.10 | 262806 | 11.87 |
| UPPER LIMIT | 338762 | 8.724 | 571932 | 9.6 | 525612 | 12.365 |
| LOWER LIMIT | 84690.5 | 7.724 | 142983 | 8.6 | 131403 | 11.365 |
| EPA SAMPLE NO. | | | | | | |
| Chamberlain Ave | 164187 | 8.22 | 302561 | 9.10 | 265786 | 11.87 |
| VN1003WBL01 | 163611 | 8.22 | 286487 | 9.10 | 249556 | 11.87 |
| VN1003WBS01 | 164341 | 8.22 | 282487 | 9.10 | 252092 | 11.87 |
| VN1003WBSD01 | 156141 | 8.22 | 268205 | 9.10 | 240791 | 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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Fax : 908 789 8922



## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VN084283.D Date Analyzed: 10/03/2024

Instrument ID: MSVOA_N Time Analyzed: 08:43

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 131016 | 13.788 | | | | |
| UPPER LIMIT | 262032 | 14.288 | | | | |
| LOWER LIMIT | 65508 | 13.288 | | | | |
| EPA SAMPLE NO. | | | | | | |
| Chamberlain Ave | 107062 | 13.79 | | | | |
| VN1003WBL01 | 98264 | 13.79 | | | | |
| VN1003WBS01 | 119632 | 13.79 | | | | |
| VN1003WBSD01 | 117079 | 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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VN1003WBL01 | SDG No.: | P4258 |
| Lab Sample ID: | VN1003WBL01 | 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 |
|---|---|---|---|---|
| VN084285.D | 1 | | 10/03/24 09:42 | VN100324 |

| 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 | 51.9 | | 74 - 125 | 104% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.9 | | 75 - 124 | 104% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.4 | | 86 - 113 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.5 | | 77 - 121 | 93% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 164000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 286000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 250000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 98300 | 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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VN1003WBS01 | SDG No.: | P4258 |
| Lab Sample ID: | VN1003WBS01 | 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 |
|---|---|---|---|---|
| VN084286.D | 1 | | 10/03/24 10:05 | VN100324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 19.7 | | 0.34 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 19.6 | | 0.26 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 98.2 | | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 20.1 | | 0.25 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 20.6 | | 0.26 | 1.00 | ug/L |
| 71-43-2 | Benzene | 20.2 | | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 20.4 | | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 20.0 | | 0.32 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 20.2 | | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 19.7 | | 0.13 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.8 | | 74 - 125 | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.6 | | 75 - 124 | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 56.2 | | 86 - 113 | 112% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 53.1 | | 77 - 121 | 106% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 164000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 282000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 252000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 120000 | 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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | VN1003WBSD01 | SDG No.: | P4258 |
| Lab Sample ID: | VN1003WBSD01 | 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 |
|---|---|---|---|---|
| VN084287.D | 1 | | 10/03/24 10:40 | VN100324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 19.7 | | 0.34 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 19.5 | | 0.26 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 100 | | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 20.3 | | 0.25 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 20.7 | | 0.26 | 1.00 | ug/L |
| 71-43-2 | Benzene | 20.8 | | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 21.7 | | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 19.9 | | 0.32 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 20.3 | | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 20.4 | | 0.13 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.8 | | 74 - 125 | 110% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.0 | | 75 - 124 | 110% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.8 | | 86 - 113 | 110% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 54.7 | | 77 - 121 | 109% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 156000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 268000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 241000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 117000 | 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

# CALIBRATION SUMMARY

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Fax : 908 789 8922



# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

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.

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_N Calibration Date/Time: 10/03/2024 08:43

Lab File ID: VN084283.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 | 0.623 | | -4.74 | 20 |
| 1,1-Dichloroethene | 0.563 | 0.545 | | -3.2 | 20 |
| 2-Butanone | 0.434 | 0.451 | | 3.92 | 20 |
| Carbon Tetrachloride | 0.525 | 0.548 | | 4.38 | 20 |
| Chloroform | 1.175 | 1.187 | | 1.02 | 20 |
| Benzene | 1.492 | 1.529 | | 2.48 | 20 |
| 1,2-Dichloroethane | 0.506 | 0.529 | | 4.55 | 20 |
| Trichloroethene | 0.348 | 0.350 | | 0.57 | 20 |
| Tetrachloroethene | 0.348 | 0.348 | | 0 | 20 |
| Chlorobenzene | 1.109 | 1.084 | 0.3 | -2.25 | 20 |
| 1,2-Dichloroethane-d4 | 0.741 | 0.758 | | 2.29 | 20 |
| Dibromofluoromethane | 0.330 | 0.342 | | 3.64 | 20 |
| Toluene-d8 | 1.213 | 1.304 | | 7.5 | 20 |
| 4-Bromofluorobenzene | 0.442 | 0.468 | | 5.88 | 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\VN100324\
Data File : VN084304.D
Acq On : 03 Oct 2024 17:27
Operator : JC\MD
Sample : P4258-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 04 01:39:17 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 :**
Chamberlain Ave

**Manual Integrations APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 164187 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 302561 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 265786 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 107062 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 121347 | 49.847 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 99.700% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 96852 | 48.555 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 97.120% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 373293 | 50.867 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 101.740% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 126134 | 47.179 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 94.360% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 4.430 | 43 | 15883 | 15.188 | ug/l | 92 |
| 20) Methylene Chloride | 5.283 | 84 | 4056 | 1.908 | ug/l # | 89 |
| 43) Isopropyl Acetate | 8.688 | 43 | 181785m | 31.223 | ug/l | |

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

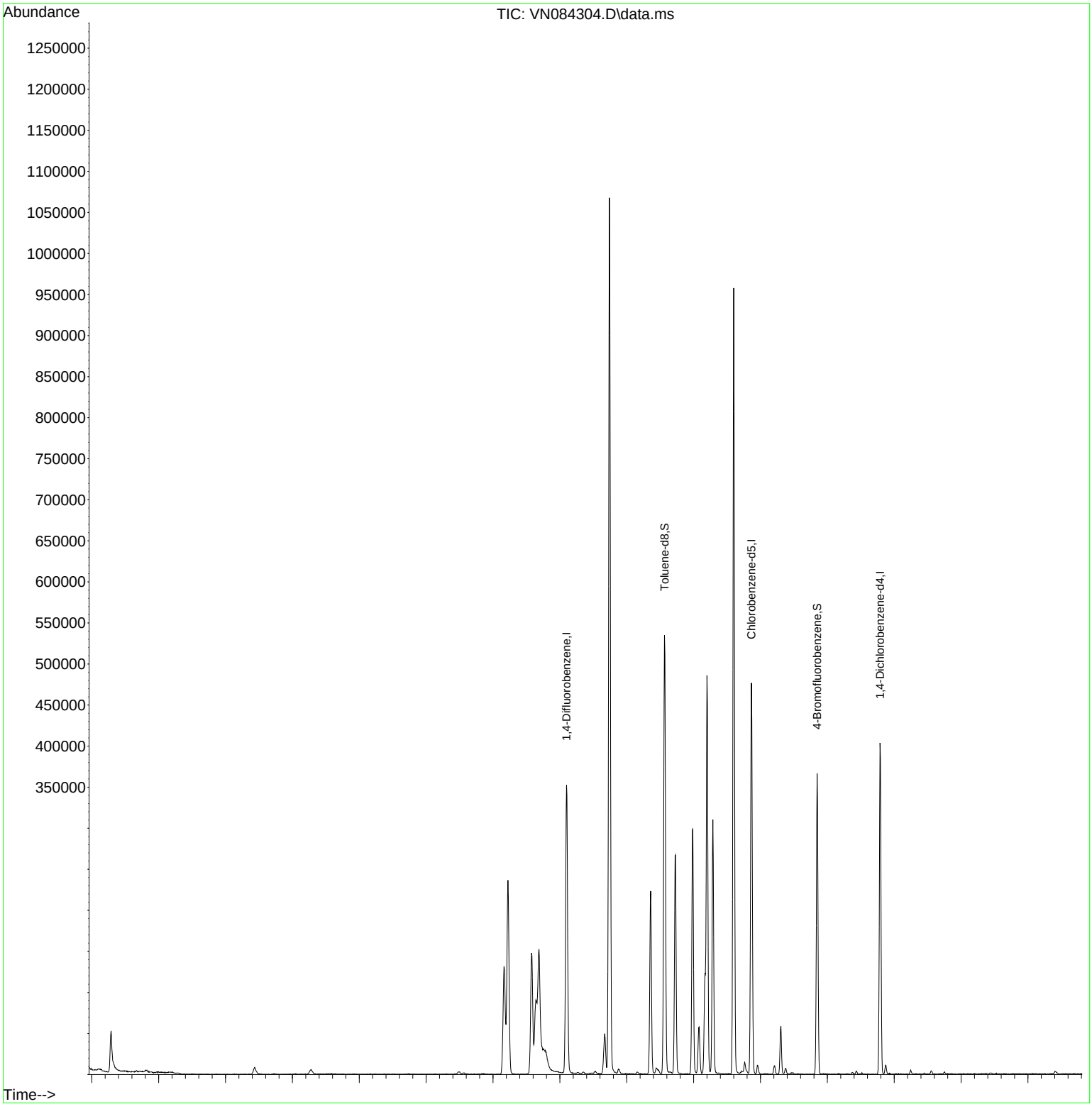
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Data File : VN084304.D
Acq On : 03 Oct 2024 17:27
Operator : JC\MD
Sample : P4258-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

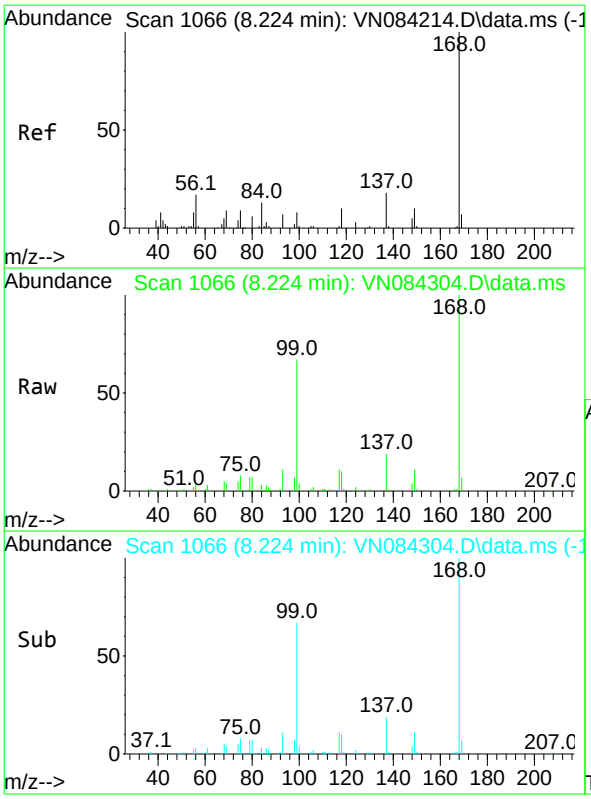
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

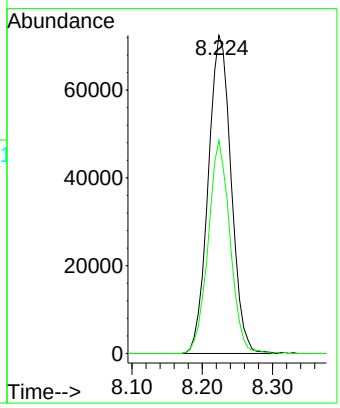





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion:168 Resp: 164187

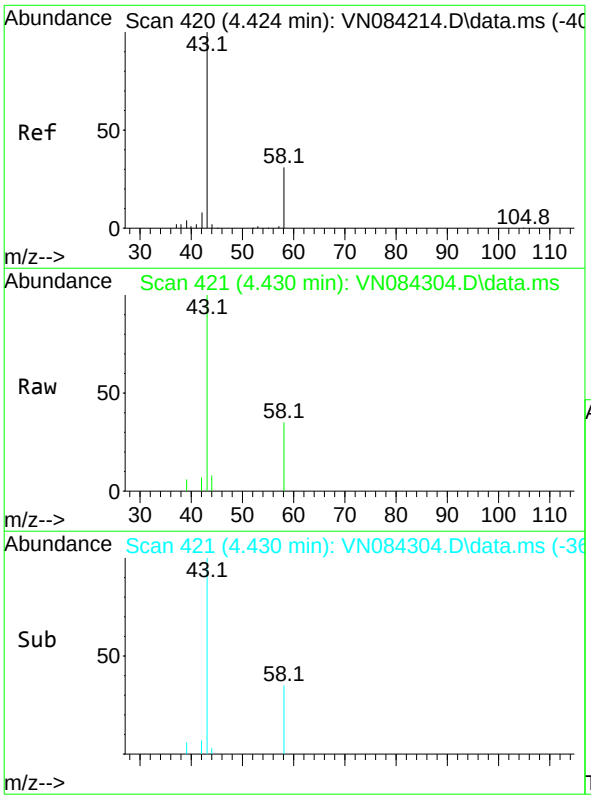
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 67.0 | 54.2 | 81.2 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations APPROVED**

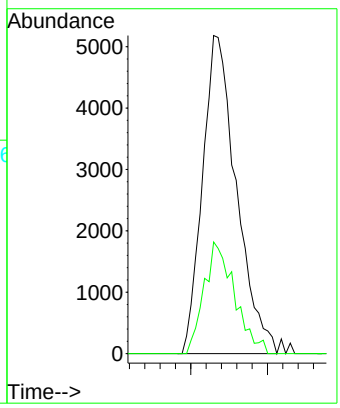
Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

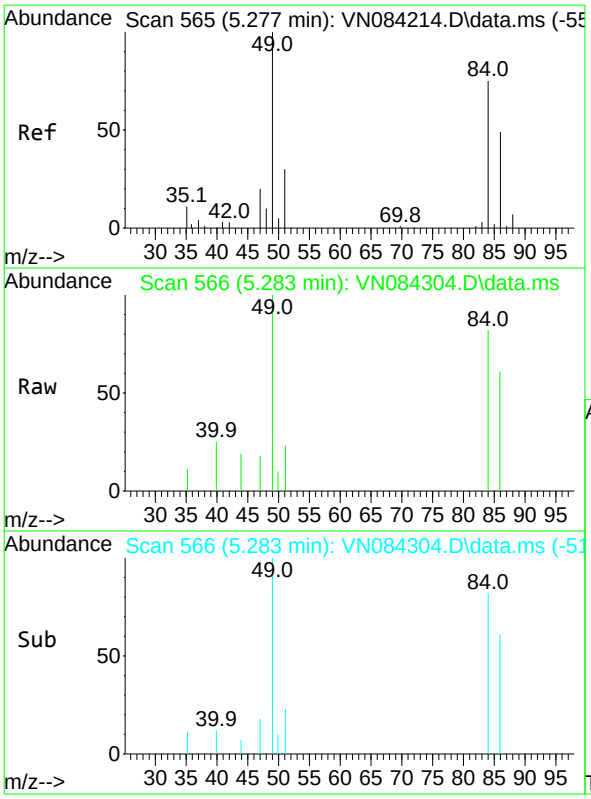



#16
Acetone
Concen: 15.188 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion: 43 Resp: 15883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.1 | 24.4 | 36.6 |

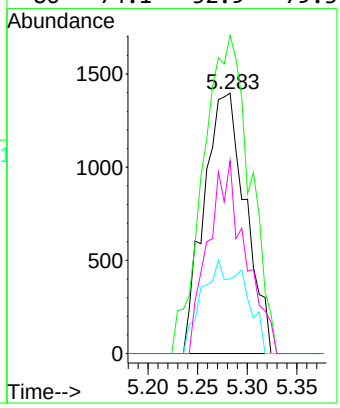





#20
Methylene Chloride
Concen: 1.908 ug/l
RT: 5.283 min Scan# 56
Delta R.T. 0.006 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

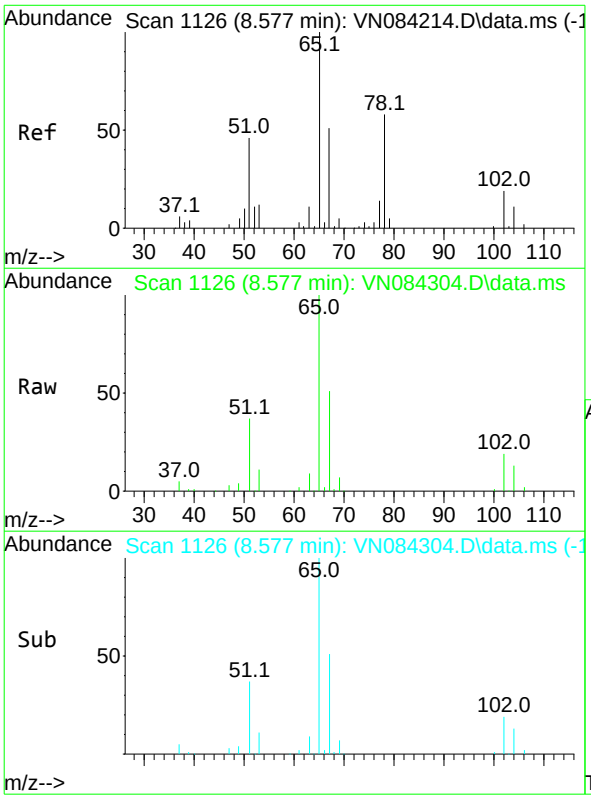
Tgt Ion: 84 Resp: 4056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 122.2 | 107.2 | 160.8 |
| 51 | 28.6 | 31.8 | 47.8# |
| 86 | 74.1 | 52.9 | 79.3 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
Chamberlain Ave

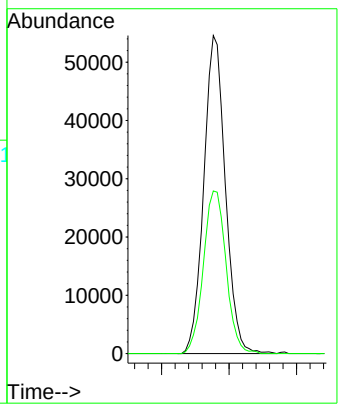
**Manual Integrations APPROVED**
Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

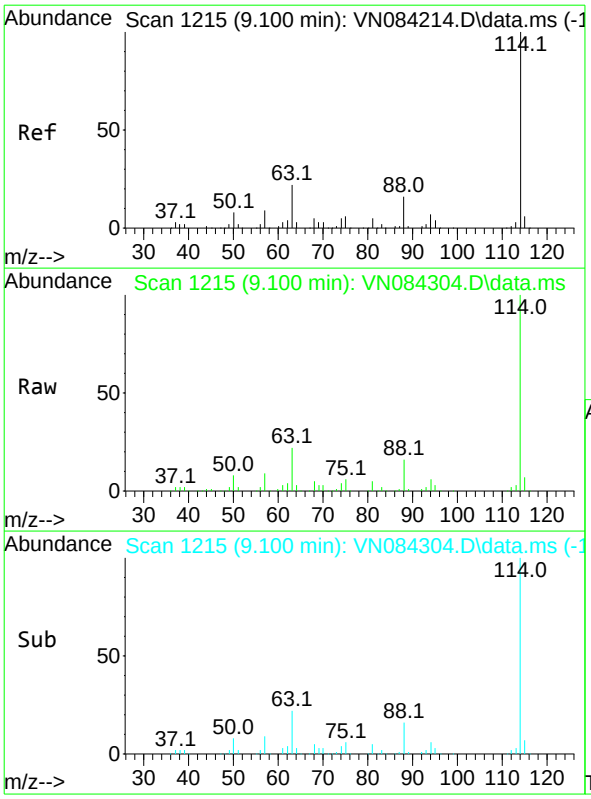



#33
1,2-Dichloroethane-d4
Concen: 49.847 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion: 65 Resp: 121347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 102.0 |






#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

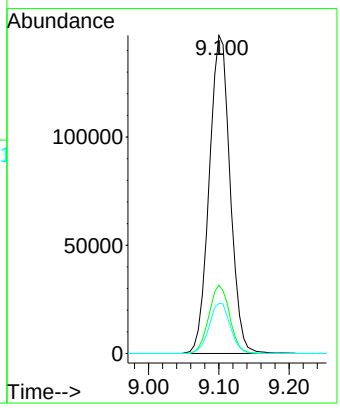
Tgt Ion:114 Resp: 302561

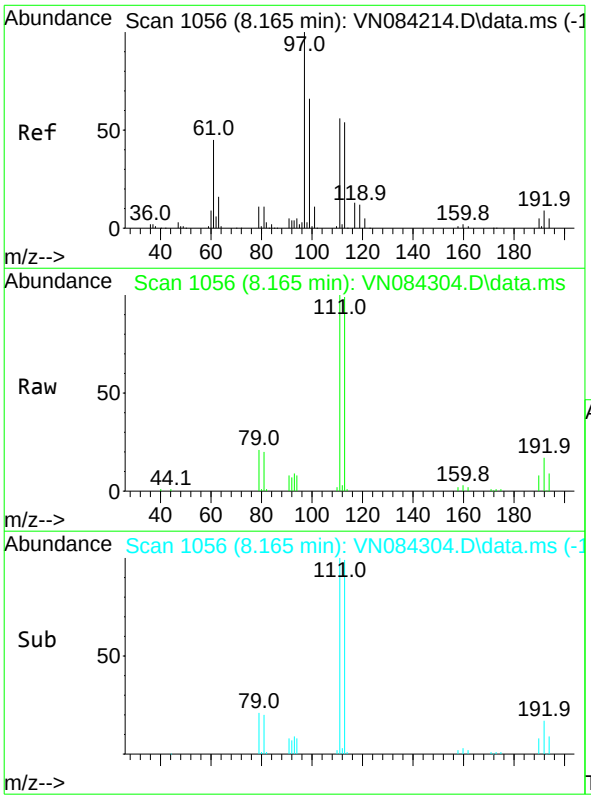
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.5 | 0.0 | 43.8 |
| 88 | 15.8 | 0.0 | 31.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

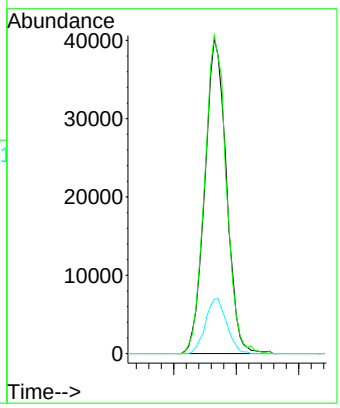


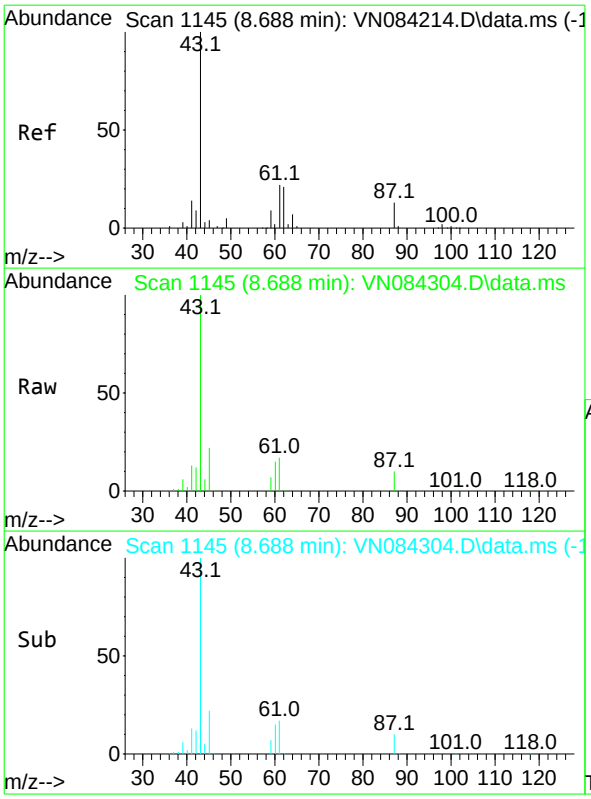




#35
Dibromofluoromethane
Concen: 48.555 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion:113 Resp: 96852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.4 | 83.3 | 124.9 |
| 192 | 17.1 | 13.5 | 20.3 |

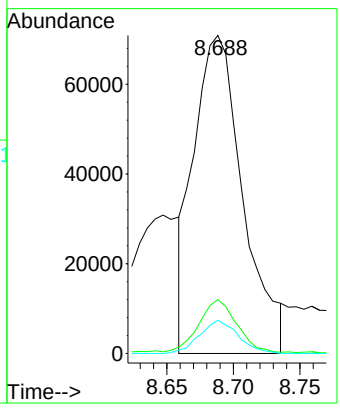





#43
Isopropyl Acetate
Concen: 31.223 ug/l m
RT: 8.688 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion: 43 Resp: 181785

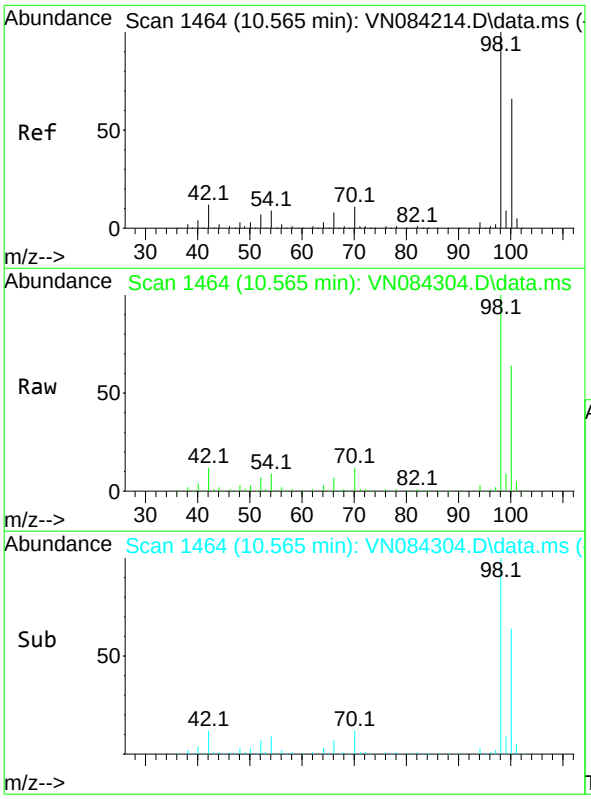
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.3 | 20.4 | 30.6# |
| 87 | 8.2 | 10.3 | 15.5# |




**Instrument :**
MSVOA_N
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations**
**APPROVED**

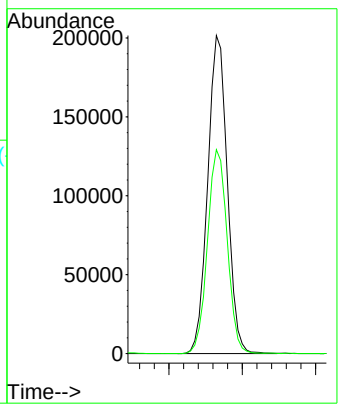
Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

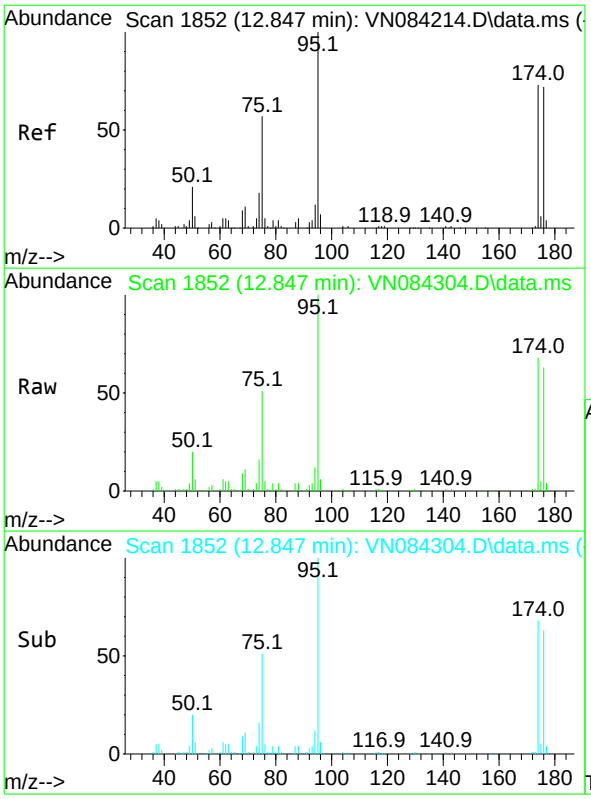



#50
Toluene-d8
Concen: 50.867 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion: 98 Resp: 373293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.7 | 79.1 |

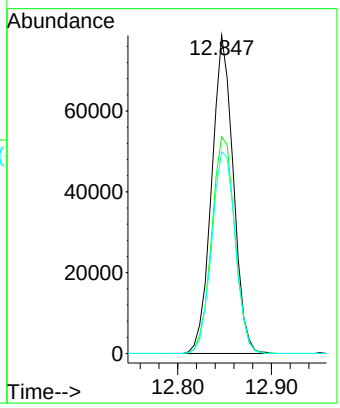





#62
4-Bromofluorobenzene
Concen: 47.179 ug/l
RT: 12.847 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion: 95 Resp: 126134

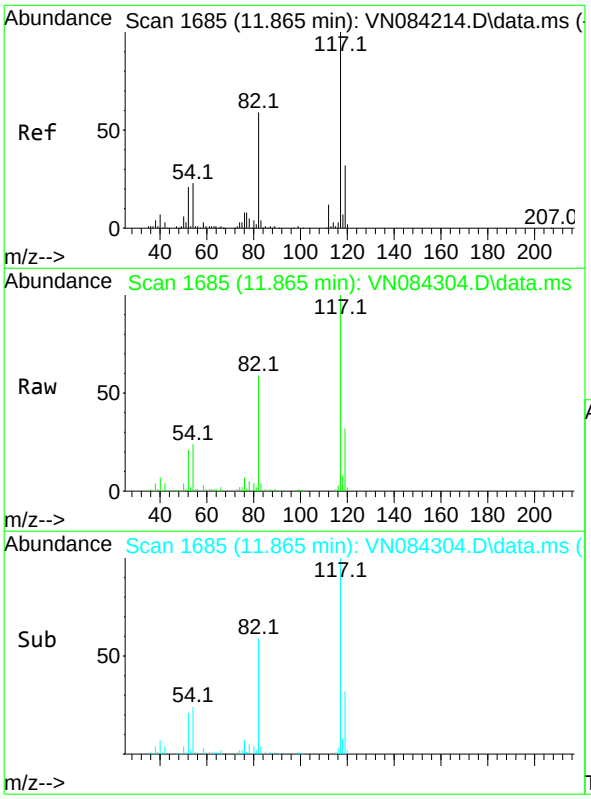
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.0 | 0.0 | 145.2 |
| 176 | 69.3 | 0.0 | 140.0 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations**
**APPROVED**

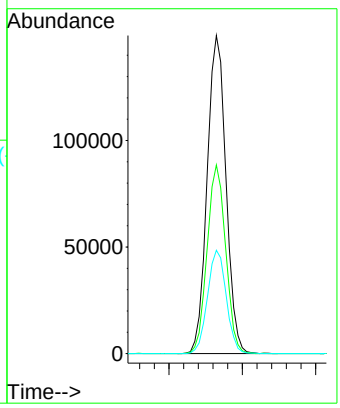
Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

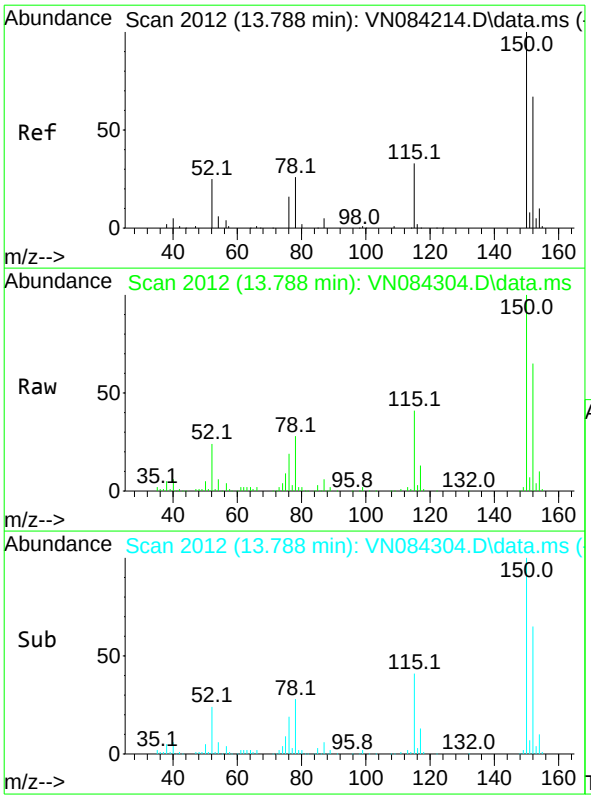



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion:117 Resp: 265786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.3 | 47.2 | 70.8 |
| 119 | 32.5 | 25.4 | 38.0 |

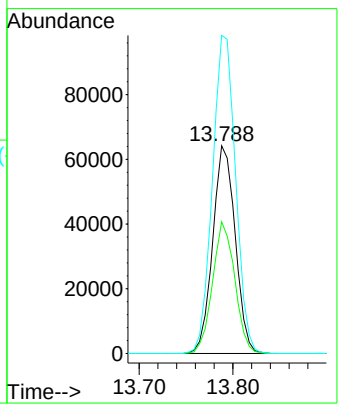





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion:152 Resp: 107062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.5 | 31.3 | 93.9 |
| 150 | 157.4 | 0.0 | 349.8 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084285.D
Acq On : 03 Oct 2024 09:42
Operator : JC\MD
Sample : VN1003WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1003WBL01

Quant Time: Oct 04 01:29:02 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

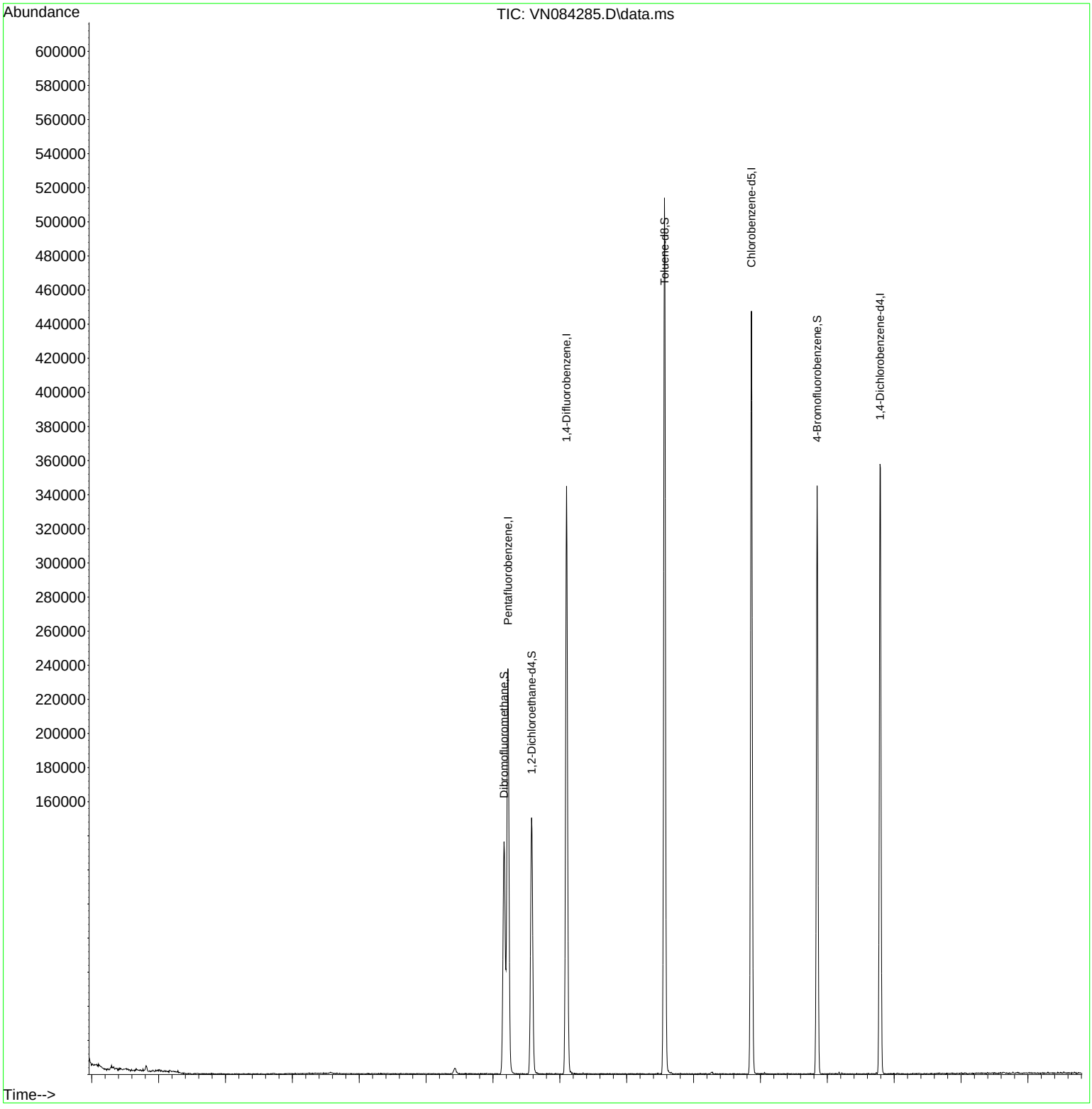
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 163611 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 286487 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 249556 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 98264 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 125911 | 51.904 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 103.800% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 98018 | 51.897 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 103.800% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 350297 | 50.412 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.820% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 117713 | 46.499 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 93.000% | | | |
| Target Compounds | | | | | | Qvalue |

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

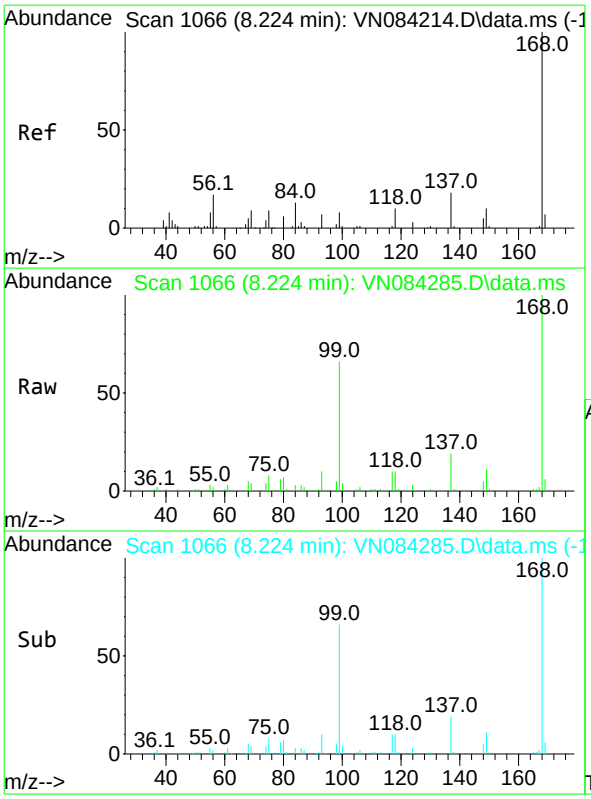
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084285.D
Acq On : 03 Oct 2024 09:42
Operator : JC\MD
Sample : VN1003WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1003WBL01

Quant Time: Oct 04 01:29:02 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



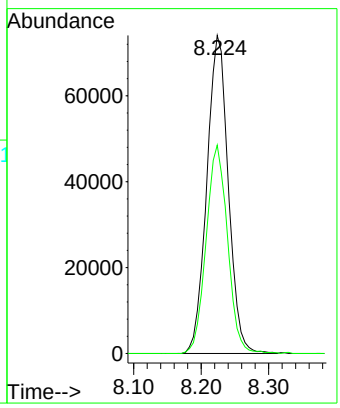
**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1003WBL01

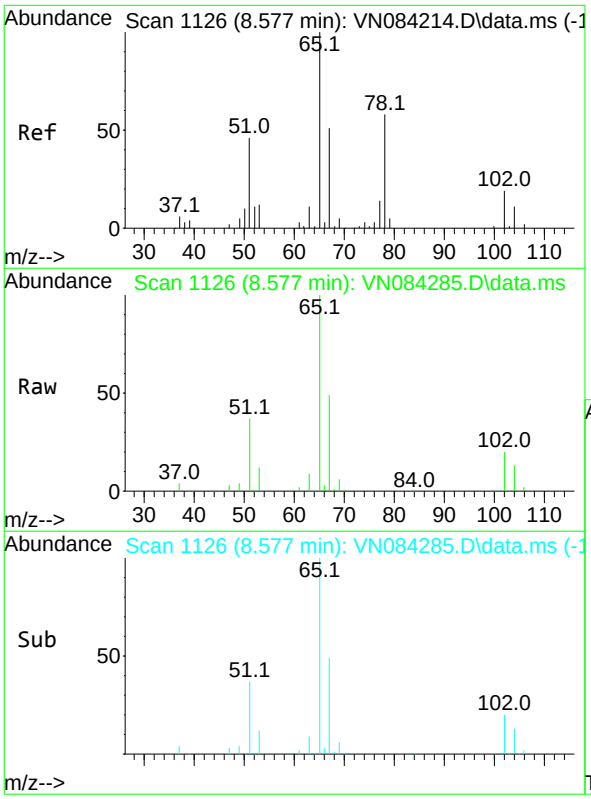



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Tgt Ion:168 Resp: 163611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.5 | 54.2 | 81.2 |

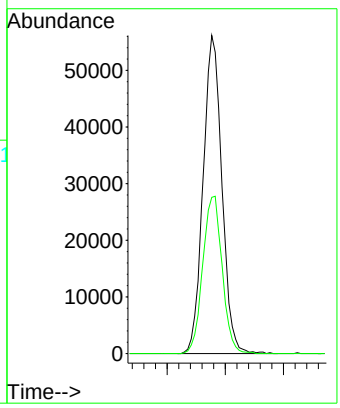


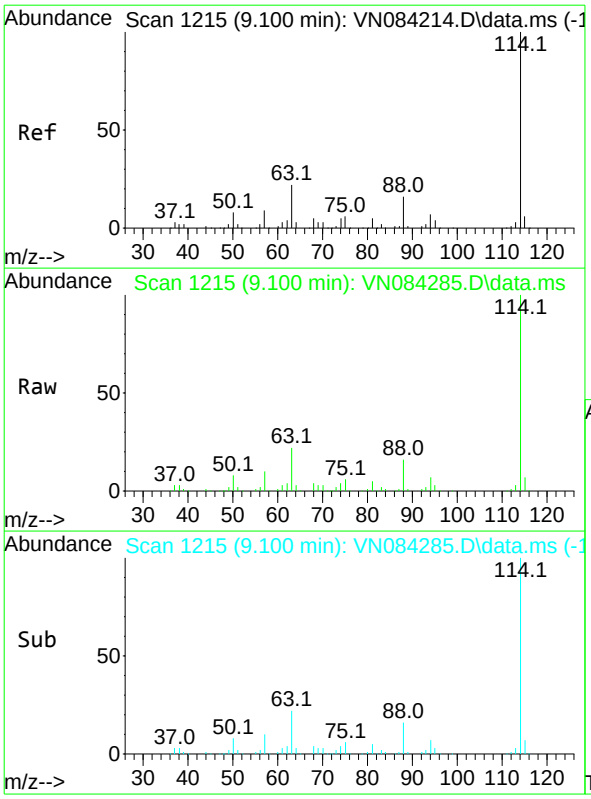




#33
1,2-Dichloroethane-d4
Concen: 51.904 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Tgt Ion: 65 Resp: 125911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.2 | 0.0 | 102.0 |



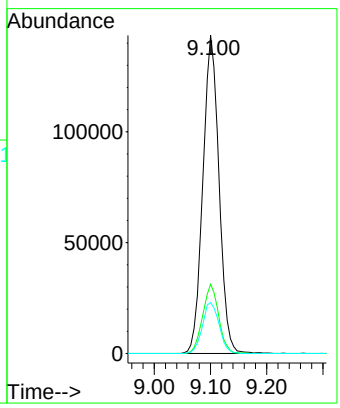


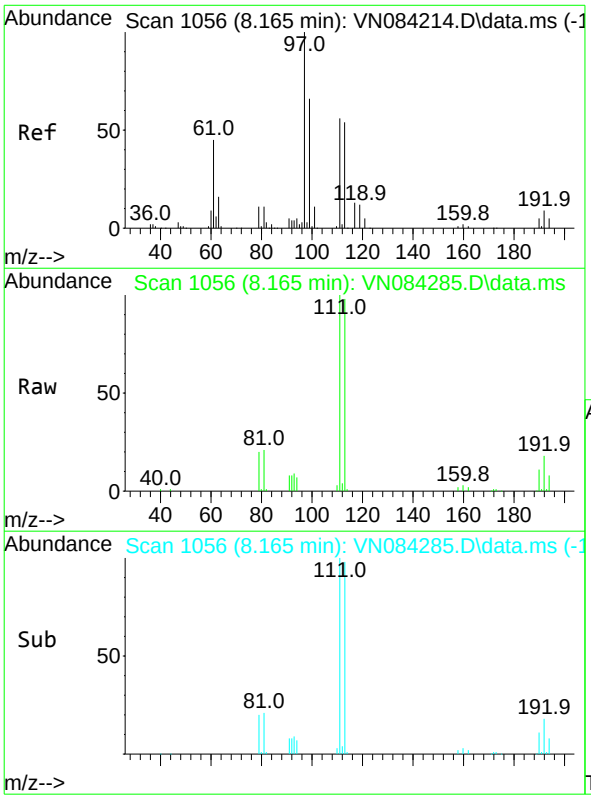

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1003WBL01

Tgt Ion:114 Resp: 286487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.8 | 0.0 | 43.8 |
| 88 | 16.0 | 0.0 | 31.6 |

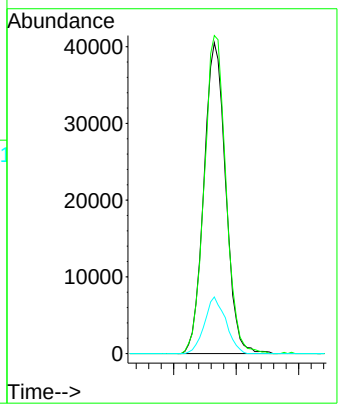


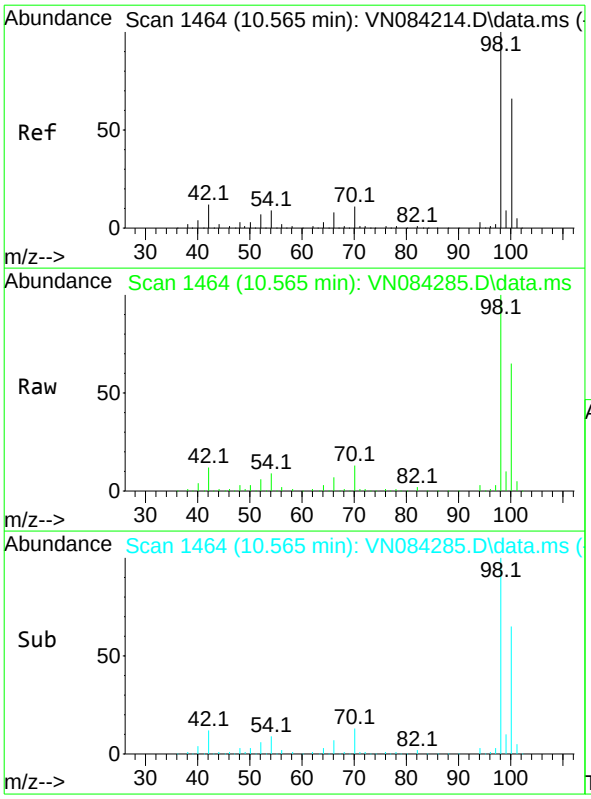




#35
Dibromofluoromethane
Concen: 51.897 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Tgt Ion:113 Resp: 98018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 83.3 | 124.9 |
| 192 | 17.9 | 13.5 | 20.3 |



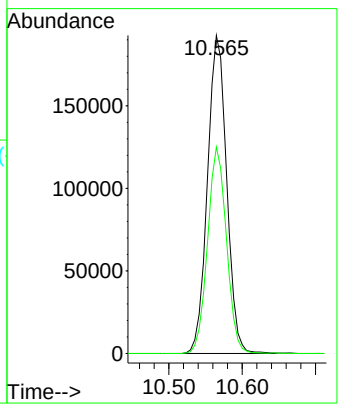


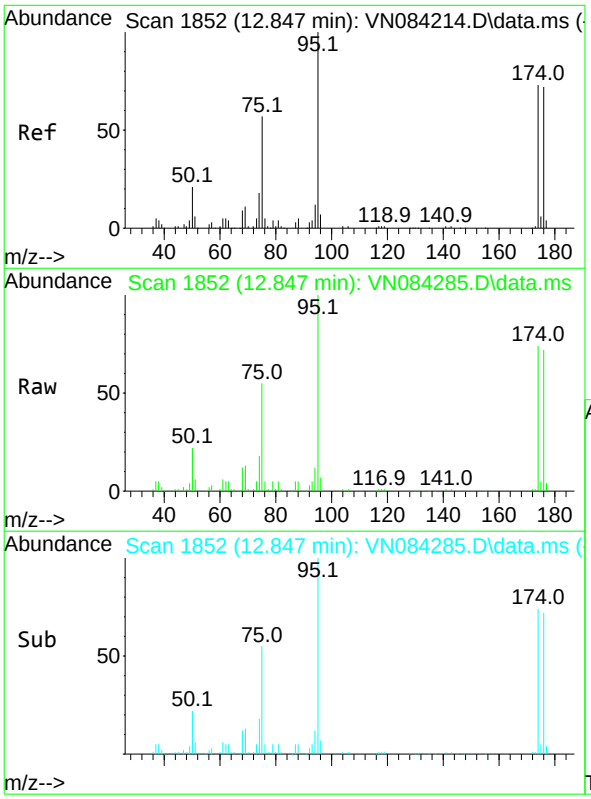

#50
Toluene-d8
Concen: 50.412 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1003WBL01

Tgt Ion: 98 Resp: 350297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 52.7 | 79.1 |

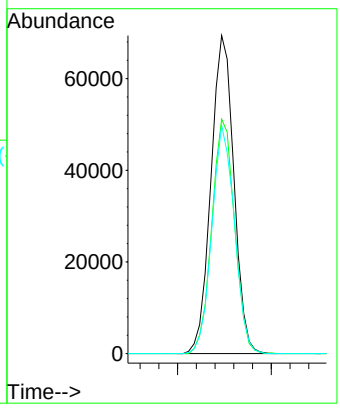


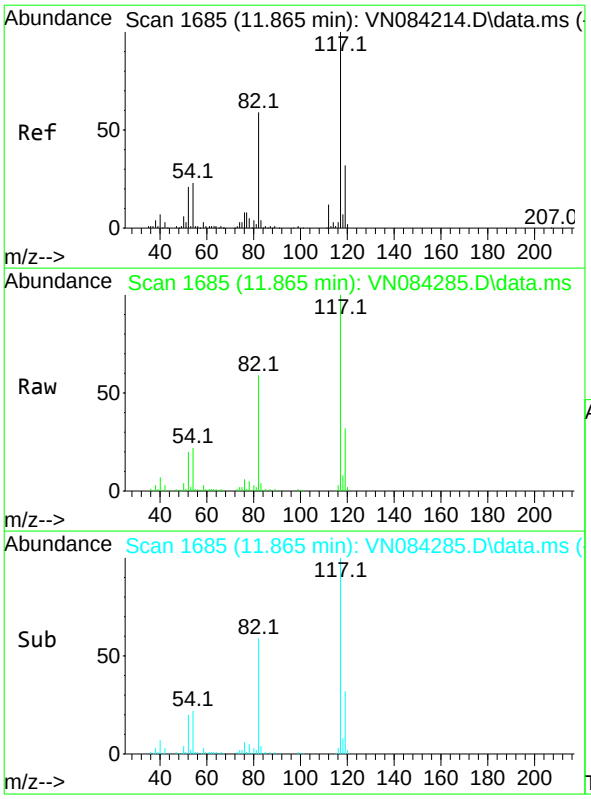




#62
4-Bromofluorobenzene
Concen: 46.499 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Tgt Ion: 95 Resp: 117713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.3 | 0.0 | 145.2 |
| 176 | 70.7 | 0.0 | 140.0 |



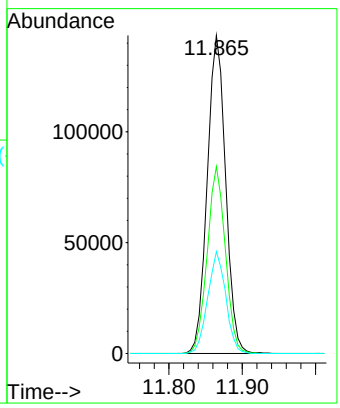


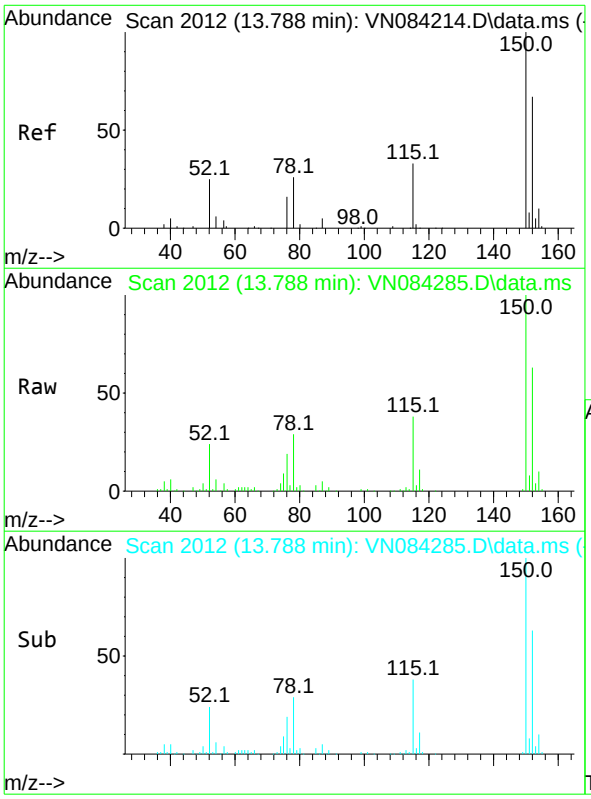

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1003WBL01

Tgt Ion:117 Resp: 249556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.8 | 47.2 | 70.8 |
| 119 | 32.1 | 25.4 | 38.0 |

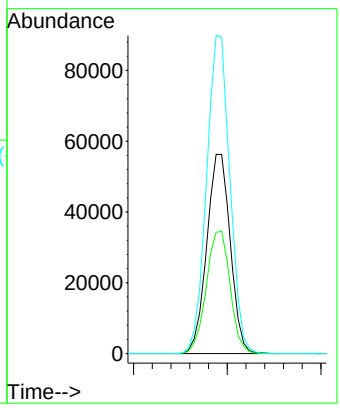



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Tgt Ion:152 Resp: 98264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.2 | 31.3 | 93.9 |
| 150 | 158.1 | 0.0 | 349.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084286.D
Acq On : 03 Oct 2024 10:05
Operator : JC\MD
Sample : VN1003WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 01:29:26 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 :**
VN1003WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 164341 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 282487 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 252092 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 119632 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.576 | 65 | 128542 | 52.753 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 105.500% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 101663 | 54.589 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 109.180% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 385143 | 56.211 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 112.420% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 132668 | 53.149 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 106.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 37946 | 19.520 | ug/l | 90 |
| 3) Chloromethane | 2.359 | 50 | 42644 | 19.213 | ug/l | 95 |
| 4) Vinyl Chloride | 2.518 | 62 | 42326 | 19.686 | ug/l | 92 |
| 5) Bromomethane | 2.959 | 94 | 26888 | 18.960 | ug/l | 88 |
| 6) Chloroethane | 3.124 | 64 | 29003 | 18.836 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.500 | 101 | 67007 | 20.014 | ug/l | 97 |
| 8) Diethyl Ether | 3.965 | 74 | 22766 | 18.335 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.377 | 101 | 38872 | 20.263 | ug/l | 99 |
| 10) Methyl Iodide | 4.589 | 142 | 47328 | 19.158 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.518 | 59 | 35351 | 87.985 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.347 | 96 | 36356 | 19.648 | ug/l | 95 |
| 13) Acrolein | 4.183 | 56 | 38224 | 82.869 | ug/l | 100 |
| 14) Allyl chloride | 5.030 | 41 | 56420 | 17.557 | ug/l | 99 |
| 15) Acrylonitrile | 5.724 | 53 | 101779 | 100.312 | ug/l | 98 |
| 16) Acetone | 4.424 | 43 | 101990 | 97.436 | ug/l | 97 |
| 17) Carbon Disulfide | 4.718 | 76 | 103177 | 17.612 | ug/l | 98 |
| 18) Methyl Acetate | 5.030 | 43 | 45974 | 20.151 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.794 | 73 | 120712 | 19.328 | ug/l | 98 |
| 20) Methylene Chloride | 5.271 | 84 | 41628 | 19.564 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 5.794 | 96 | 38678 | 19.952 | ug/l | 98 |
| 22) Diisopropyl ether | 6.665 | 45 | 131911 | 19.845 | ug/l | 97 |
| 23) Vinyl Acetate | 6.600 | 43 | 479948 | 97.350 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.571 | 63 | 75046 | 20.189 | ug/l | 100 |
| 25) 2-Butanone | 7.482 | 43 | 139938 | 98.156 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.494 | 77 | 65602 | 19.573 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.488 | 96 | 44983 | 19.202 | ug/l | 99 |
| 28) Bromochloromethane | 7.812 | 49 | 34800 | 20.982 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.841 | 42 | 86917 | 98.791 | ug/l | 99 |
| 30) Chloroform | 7.959 | 83 | 79579 | 20.610 | ug/l | 88 |
| 31) Cyclohexane | 8.259 | 56 | 65990 | 18.284 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 69786 | 20.124 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 52871 | 19.545 | ug/l | 99 |
| 37) Ethyl Acetate | 7.559 | 43 | 54681 | 19.703 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 59508 | 20.054 | ug/l | 97 |
| 39) Methylcyclohexane | 9.600 | 83 | 57135 | 18.977 | ug/l | 97 |
| 40) Benzene | 8.606 | 78 | 169934 | 20.163 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084286.D
Acq On : 03 Oct 2024 10:05
Operator : JC\MD
Sample : VN1003WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 01:29:26 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 :**
VN1003WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.777 | 41 | 30342 | 20.139 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.671 | 62 | 58375 | 20.430 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.688 | 43 | 90050 | 16.566 | ug/l | | 99 |
| 44) Trichloroethene | 9.353 | 130 | 39275 | 19.952 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 40482 | 20.304 | ug/l | | 90 |
| 46) Dibromomethane | 9.706 | 93 | 29128 | 21.649 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.882 | 83 | 62105 | 20.776 | ug/l | # | 98 |
| 48) Methyl methacrylate | 9.682 | 41 | 43156 | 19.944 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.694 | 88 | 15977 | 401.063 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 10.447 | 43 | 275703 | 104.359 | ug/l | | 100 |
| 52) Toluene | 10.629 | 92 | 104206 | 20.275 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 59860 | 19.645 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 66153 | 20.184 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 11.018 | 97 | 39141 | 21.244 | ug/l | | 93 |
| 56) Ethyl methacrylate | 10.870 | 69 | 58544 | 19.311 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 11.165 | 76 | 66842 | 20.303 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 137654 | 97.878 | ug/l | | 98 |
| 59) 2-Hexanone | 11.194 | 43 | 202204 | 102.404 | ug/l | | 98 |
| 60) Dibromochloromethane | 11.359 | 129 | 44640 | 20.506 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.470 | 107 | 38918 | 20.328 | ug/l | | 99 |
| 64) Tetrachloroethene | 11.100 | 164 | 35391 | 20.156 | ug/l | | 94 |
| 65) Chlorobenzene | 11.894 | 112 | 109976 | 19.676 | ug/l | | 91 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 38431 | 19.962 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.959 | 91 | 188894 | 19.109 | ug/l | | 98 |
| 68) m/p-Xylenes | 12.070 | 106 | 146376 | 40.032 | ug/l | | 100 |
| 69) o-Xylene | 12.400 | 106 | 69553 | 20.105 | ug/l | | 100 |
| 70) Styrene | 12.412 | 104 | 120069 | 20.491 | ug/l | | 98 |
| 71) Bromoform | 12.576 | 173 | 29374 | 20.724 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.694 | 105 | 175830 | 19.261 | ug/l | | 100 |
| 74) N-amyl acetate | 12.494 | 43 | 78313 | 18.944 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 55997 | 20.399 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.994 | 75 | 48032m | 19.667 | ug/l | | |
| 77) Bromobenzene | 12.982 | 156 | 42701 | 19.392 | ug/l | | 99 |
| 78) n-propylbenzene | 13.035 | 91 | 212999 | 20.138 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 130433 | 19.326 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 152396 | 20.465 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 18144 | 17.811 | ug/l | | 89 |
| 82) 4-Chlorotoluene | 13.217 | 91 | 135472 | 19.939 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 128099 | 19.354 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 152506 | 20.330 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.617 | 105 | 176605 | 19.996 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 145368 | 19.904 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 80246 | 19.425 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.811 | 146 | 80561 | 19.311 | ug/l | | 99 |
| 89) n-Butylbenzene | 14.053 | 91 | 122113 | 18.439 | ug/l | | 99 |
| 90) Hexachloroethane | 14.335 | 117 | 29500 | 19.900 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 77393 | 19.106 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 11229 | 19.823 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 35283 | 17.684 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 17527 | 17.616 | ug/l | | 97 |
| 95) Naphthalene | 15.641 | 128 | 105992 | 16.025 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.841 | 180 | 36046 | 18.049 | ug/l | | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084286.D
Acq On : 03 Oct 2024 10:05
Operator : JC\MD
Sample : VN1003WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 01:29:26 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 :**
VN1003WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

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

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

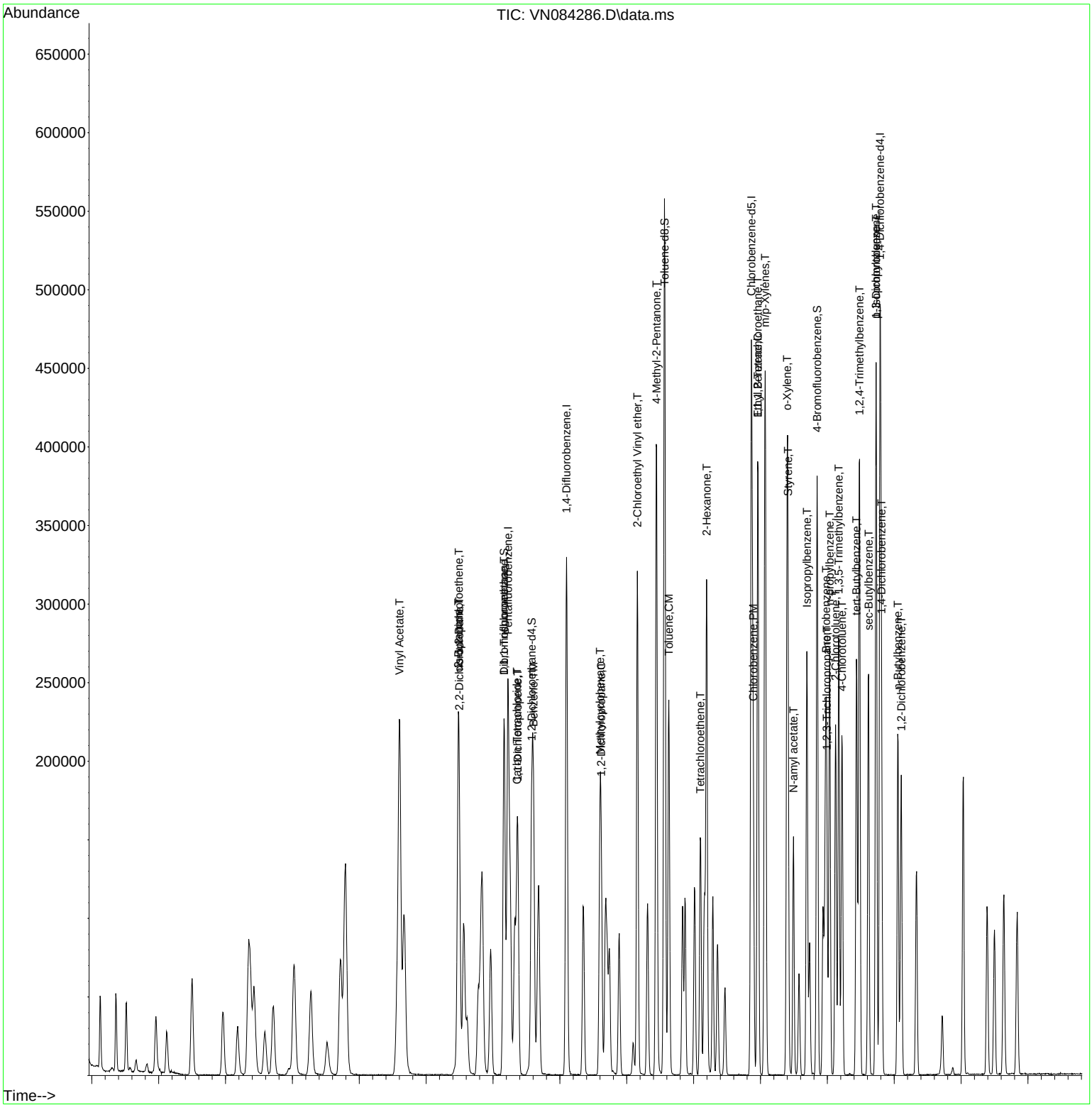
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084286.D
Acq On : 03 Oct 2024 10:05
Operator : JC\MD
Sample : VN1003WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 01:29:26 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 :**
VN1003WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084287.D
Acq On : 03 Oct 2024 10:40
Operator : JC\MD
Sample : VN1003WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 01:30:27 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 :**
VN1003WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 156141 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 268205 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 240791 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 117079 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 126965 | 54.843 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 109.680% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 97332 | 55.047 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 110.100% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 356552 | 54.809 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 109.620% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 129600 | 54.685 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 109.360% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.130 | 85 | 36360 | 19.687 | ug/l | 94 |
| 3) Chloromethane | 2.365 | 50 | 40309 | 19.114 | ug/l | 97 |
| 4) Vinyl Chloride | 2.518 | 62 | 40198 | 19.679 | ug/l | 97 |
| 5) Bromomethane | 2.965 | 94 | 25935 | 19.248 | ug/l | 97 |
| 6) Chloroethane | 3.124 | 64 | 27671 | 18.915 | ug/l | 95 |
| 7) Trichlorofluoromethane | 3.500 | 101 | 62722 | 19.718 | ug/l | 100 |
| 8) Diethyl Ether | 3.965 | 74 | 22765 | 19.297 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 4.377 | 101 | 38730 | 21.250 | ug/l | 97 |
| 10) Methyl Iodide | 4.589 | 142 | 47462 | 20.221 | ug/l | 95 |
| 11) Tert butyl alcohol | 5.518 | 59 | 35686 | 93.483 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 34247 | 19.480 | ug/l | 98 |
| 13) Acrolein | 4.183 | 56 | 38359 | 87.529 | ug/l | 100 |
| 14) Allyl chloride | 5.024 | 41 | 55508 | 18.180 | ug/l | 98 |
| 15) Acrylonitrile | 5.718 | 53 | 100479 | 104.232 | ug/l | 97 |
| 16) Acetone | 4.430 | 43 | 93734 | 94.251 | ug/l | 99 |
| 17) Carbon Disulfide | 4.718 | 76 | 99830 | 17.935 | ug/l | 100 |
| 18) Methyl Acetate | 5.030 | 43 | 45251 | 20.876 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.794 | 73 | 122104 | 20.578 | ug/l | 100 |
| 20) Methylene Chloride | 5.271 | 84 | 41574 | 20.565 | ug/l | 86 |
| 21) trans-1,2-Dichloroethene | 5.789 | 96 | 36911 | 20.040 | ug/l | 99 |
| 22) Diisopropyl ether | 6.671 | 45 | 132716 | 21.015 | ug/l | 97 |
| 23) Vinyl Acetate | 6.606 | 43 | 494150 | 105.494 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.571 | 63 | 72893 | 20.639 | ug/l | 99 |
| 25) 2-Butanone | 7.483 | 43 | 135725 | 100.200 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.488 | 77 | 60055 | 18.859 | ug/l | 96 |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 44504 | 19.996 | ug/l | 99 |
| 28) Bromochloromethane | 7.812 | 49 | 36194 | 22.969 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.841 | 42 | 86041 | 102.931 | ug/l | 99 |
| 30) Chloroform | 7.965 | 83 | 76104 | 20.745 | ug/l | 98 |
| 31) Cyclohexane | 8.259 | 56 | 63688 | 18.573 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 8.171 | 97 | 66380 | 20.147 | ug/l | 95 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 49686 | 19.346 | ug/l | 99 |
| 37) Ethyl Acetate | 7.565 | 43 | 52477 | 19.916 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 57204 | 20.304 | ug/l | 97 |
| 39) Methylcyclohexane | 9.600 | 83 | 55154 | 19.295 | ug/l | 99 |
| 40) Benzene | 8.606 | 78 | 166211 | 20.771 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084287.D
Acq On : 03 Oct 2024 10:40
Operator : JC\MD
Sample : VN1003WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 01:30:27 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 :**
VN1003WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.783 | 41 | 29683 | 20.751 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.671 | 62 | 58993 | 21.746 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.688 | 43 | 88817 | 17.209 | ug/l | | 98 |
| 44) Trichloroethene | 9.353 | 130 | 37201 | 19.905 | ug/l | | 93 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 40803 | 21.555 | ug/l | | 96 |
| 46) Dibromomethane | 9.706 | 93 | 29220 | 22.874 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.888 | 83 | 60940 | 21.472 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.682 | 41 | 42304 | 20.591 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.694 | 88 | 16004 | 423.134 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 270510 | 107.846 | ug/l | | 100 |
| 52) Toluene | 10.629 | 92 | 100302 | 20.555 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 58839 | 20.338 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 64371 | 20.686 | ug/l | | 94 |
| 55) 1,1,2-Trichloroethane | 11.018 | 97 | 39008 | 22.299 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.871 | 69 | 59987 | 20.840 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 11.165 | 76 | 66561 | 21.294 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 139786 | 104.687 | ug/l | | 100 |
| 59) 2-Hexanone | 11.194 | 43 | 198433 | 105.845 | ug/l | | 98 |
| 60) Dibromochloromethane | 11.359 | 129 | 45813 | 22.165 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.471 | 107 | 38918 | 21.411 | ug/l | | 99 |
| 64) Tetrachloroethene | 11.100 | 164 | 34099 | 20.332 | ug/l | | 94 |
| 65) Chlorobenzene | 11.894 | 112 | 108952 | 20.407 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 38392 | 20.877 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.965 | 91 | 183902 | 19.478 | ug/l | | 100 |
| 68) m/p-Xylenes | 12.070 | 106 | 144563 | 41.392 | ug/l | | 98 |
| 69) o-Xylene | 12.394 | 106 | 66715 | 20.190 | ug/l | | 99 |
| 70) Styrene | 12.412 | 104 | 115957 | 20.718 | ug/l | | 99 |
| 71) Bromoform | 12.576 | 173 | 29230 | 21.590 | ug/l | # | 96 |
| 73) Isopropylbenzene | 12.694 | 105 | 170131 | 19.043 | ug/l | | 100 |
| 74) N-amyl acetate | 12.494 | 43 | 76380 | 18.879 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 53725 | 19.999 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.994 | 75 | 46336m | 19.386 | ug/l | | |
| 77) Bromobenzene | 12.976 | 156 | 42326 | 19.640 | ug/l | | 99 |
| 78) n-propylbenzene | 13.035 | 91 | 205979 | 19.899 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 128715 | 19.487 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 146969 | 20.167 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 18636 | 18.693 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 13.217 | 91 | 133150 | 20.025 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 124662 | 19.246 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 149658 | 20.385 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.617 | 105 | 172092 | 19.910 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 141757 | 19.833 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 79774 | 19.732 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 79022 | 19.355 | ug/l | | 99 |
| 89) n-Butylbenzene | 14.059 | 91 | 121728 | 18.782 | ug/l | | 99 |
| 90) Hexachloroethane | 14.335 | 117 | 27869 | 19.209 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 77582 | 19.571 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 10820 | 19.518 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 15.394 | 180 | 36612 | 18.751 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 16640 | 17.089 | ug/l | | 99 |
| 95) Naphthalene | 15.641 | 128 | 107461 | 16.601 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 36465 | 18.657 | ug/l | | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084287.D
Acq On : 03 Oct 2024 10:40
Operator : JC\MD
Sample : VN1003WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 01:30:27 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 :**
VN1003WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

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

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

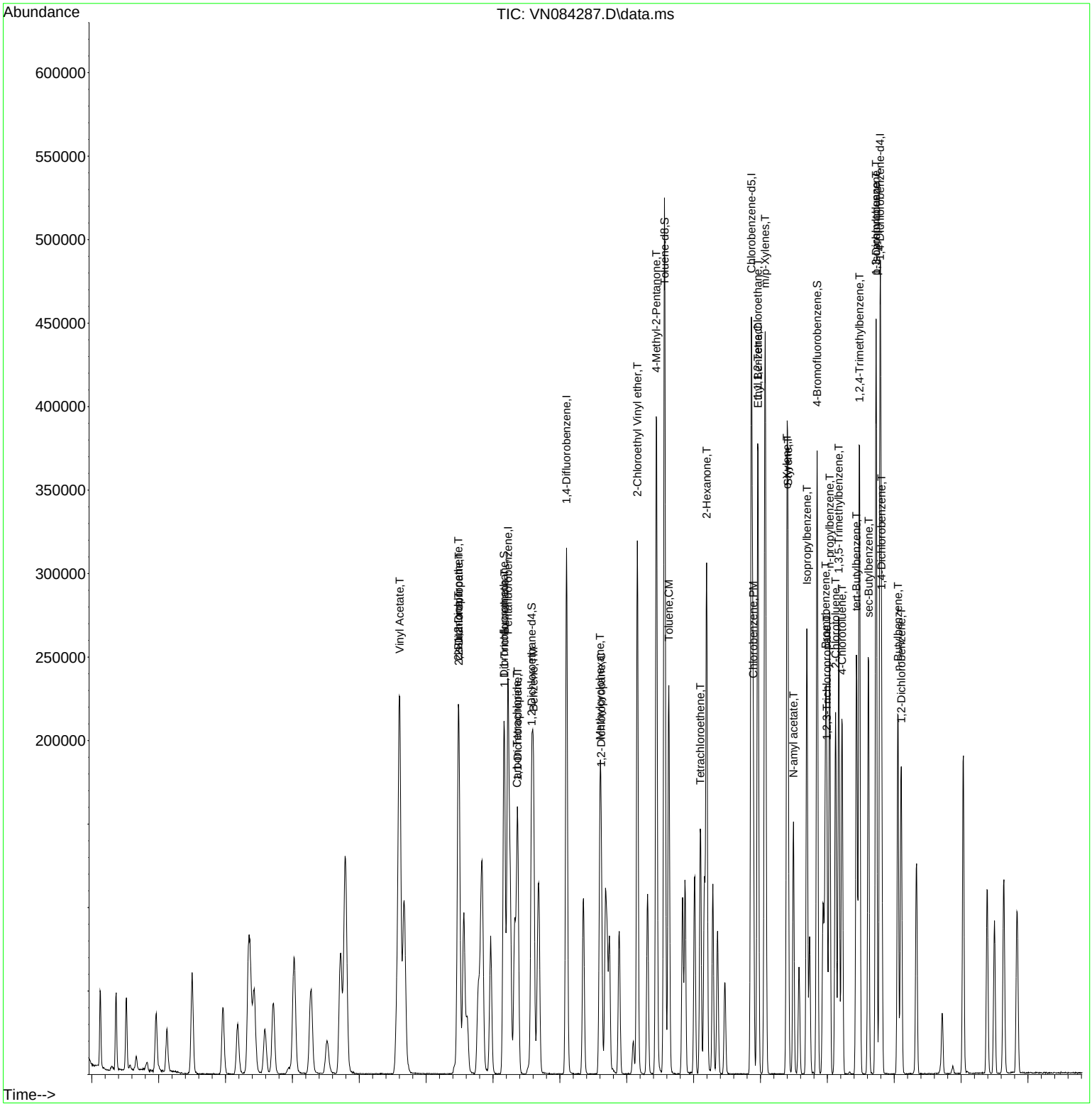
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084287.D
Acq On : 03 Oct 2024 10:40
Operator : JC\MD
Sample : VN1003WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 01:30:27 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 :**
VN1003WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024



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# Manual Integration Report

| Sequence: | vn093024 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC100 | VN084213.D | 1,2,3-Trichloropropane | JOHN | 10/1/2024 9:36:48 AM | MMDadoda | 10/1/2024 5:34:17 PM | Peak Integrated by Software |
| VSTDICCC050 | VN084214.D | 1,2,3-Trichloropropane | JOHN | 10/1/2024 9:36:52 AM | MMDadoda | 10/1/2024 5:34:19 PM | Peak Integrated by Software |
| VSTDICC020 | VN084215.D | 1,2,3-Trichloropropane | JOHN | 10/1/2024 9:36:57 AM | MMDadoda | 10/1/2024 5:34:21 PM | Peak Integrated by Software |
| VSTDICC010 | VN084216.D | 1,2,3-Trichloropropane | JOHN | 10/1/2024 9:37:06 AM | MMDadoda | 10/1/2024 5:34:22 PM | Peak Integrated by Software |
| VSTDICC005 | VN084217.D | 1,1,2-Trichlorotrifluoroethane | JOHN | 10/1/2024 9:37:11 AM | MMDadoda | 10/1/2024 5:34:24 PM | Peak Integrated by Software |
| VSTDICC005 | VN084217.D | 1,2,3-Trichloropropane | JOHN | 10/1/2024 9:37:11 AM | MMDadoda | 10/1/2024 5:34:24 PM | Peak Integrated by Software |
| VSTDICC005 | VN084217.D | Isopropyl Acetate | JOHN | 10/1/2024 9:37:11 AM | MMDadoda | 10/1/2024 5:34:24 PM | Peak Integrated by Software |
| VSTDICC005 | VN084217.D | trans-1,2-Dichloroethene | JOHN | 10/1/2024 9:37:11 AM | MMDadoda | 10/1/2024 5:34:24 PM | Peak Integrated by Software |
| VSTDICC005 | VN084217.D | Vinyl Acetate | JOHN | 10/1/2024 9:37:11 AM | MMDadoda | 10/1/2024 5:34:24 PM | Peak Integrated by Software |
| VSTDICC001 | VN084218.D | 1,2,3-Trichloropropane | JOHN | 10/1/2024 9:37:57 AM | MMDadoda | 10/1/2024 5:34:25 PM | Peak Integrated by Software |
| VSTDICC001 | VN084218.D | 1,4-Dichlorobenzene | JOHN | 10/1/2024 9:37:57 AM | MMDadoda | 10/1/2024 5:34:25 PM | Peak Integrated by Software |
| VSTDICC001 | VN084218.D | Allyl chloride | JOHN | 10/1/2024 9:37:57 AM | MMDadoda | 10/1/2024 5:34:25 PM | Peak Integrated by Software |
| VSTDICC001 | VN084218.D | Isopropyl Acetate | JOHN | 10/1/2024 9:37:57 AM | MMDadoda | 10/1/2024 5:34:25 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vn093024 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC001 | VN084218.D | Vinyl Acetate | JOHN | 10/1/2024 9:37:57 AM | MMDadoda | 10/1/2024 5:34:25 PM | Peak Integrated by Software |
| VSTDICV050 | VN084220.D | 1,2,3-Trichloropropane | JOHN | 10/1/2024 9:38:01 AM | MMDadoda | 10/1/2024 5:34:27 PM | Peak Integrated by Software |
| VSTDCCC050 | VN084229.D | 1,2,3-Trichloropropane | JOHN | 10/1/2024 9:38:17 AM | MMDadoda | 10/1/2024 5:34:32 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VN100324 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VN084283.D | 1,2,3-Trichloropropane | JOHN | 10/4/2024 9:46:46 AM | MMDadoda | 10/4/2024 10:15:55 AM | Peak Integrated by Software |
| VSTDCCC050 | VN084283.D | trans-1,4-Dichloro-2-but ene | JOHN | 10/4/2024 9:46:46 AM | MMDadoda | 10/4/2024 10:15:55 AM | Peak Integrated by Software |
| VN1003WBS01 | VN084286.D | 1,2,3-Trichloropropane | JOHN | 10/4/2024 9:46:50 AM | MMDadoda | 10/4/2024 10:15:56 AM | Peak Integrated by Software |
| VN1003WBSD0 1 | VN084287.D | 1,2,3-Trichloropropane | JOHN | 10/4/2024 9:46:55 AM | MMDadoda | 10/4/2024 10:15:57 AM | Peak Integrated by Software |
| P4258-04 | VN084304.D | Isopropyl Acetate | JOHN | 10/4/2024 9:48:30 AM | MMDadoda | 10/4/2024 10:16:05 AM | Peak Integrated by Software |
| VSTDCCC050 | VN084305.D | 1,2,3-Trichloropropane | JOHN | 10/4/2024 9:48:35 AM | MMDadoda | 10/4/2024 10:16:05 AM | Peak Integrated by Software |

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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 | |

| 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 |

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**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN100324

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 10/4/2024 9:52:33 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/4/2024 10:16:10 AM | | |
| SubDirectory | VN100324 | HP Acquire Method | | HP Processing Method | 82N093024W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130658 |
| Initial Calibration Stds | |
| CCC | VP130659,VP130660 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VN084282.D | 03 Oct 2024 08:20 | JC\MD | Ok |
| 2 | VSTDCCC050 | VN084283.D | 03 Oct 2024 08:43 | JC\MD | Ok,M |
| 3 | VN1003MBL01 | VN084284.D | 03 Oct 2024 09:18 | JC\MD | Ok |
| 4 | VN1003WBL01 | VN084285.D | 03 Oct 2024 09:42 | JC\MD | Ok |
| 5 | VN1003WBS01 | VN084286.D | 03 Oct 2024 10:05 | JC\MD | Ok,M |
| 6 | VN1003WBSD01 | VN084287.D | 03 Oct 2024 10:40 | JC\MD | Ok,M |
| 7 | P4226-09DL | VN084288.D | 03 Oct 2024 11:04 | JC\MD | Ok |
| 8 | P4226-13DL | VN084289.D | 03 Oct 2024 11:28 | JC\MD | Ok |
| 9 | P4226-14 | VN084290.D | 03 Oct 2024 11:52 | JC\MD | Ok |
| 10 | P4226-15 | VN084291.D | 03 Oct 2024 12:16 | JC\MD | Ok |
| 11 | P4226-29 | VN084292.D | 03 Oct 2024 12:40 | JC\MD | Ok |
| 12 | P4226-19 | VN084293.D | 03 Oct 2024 13:04 | JC\MD | Ok |
| 13 | P4226-20 | VN084294.D | 03 Oct 2024 13:28 | JC\MD | Ok |
| 14 | P4226-27 | VN084295.D | 03 Oct 2024 13:52 | JC\MD | Ok |
| 15 | P4226-28 | VN084296.D | 03 Oct 2024 14:16 | JC\MD | Ok |
| 16 | P4226-23 | VN084297.D | 03 Oct 2024 14:39 | JC\MD | Dilution |
| 17 | P4226-24MS | VN084298.D | 03 Oct 2024 15:03 | JC\MD | Ok,M |
| 18 | P4226-25MSD | VN084299.D | 03 Oct 2024 15:27 | JC\MD | Ok,M |
| 19 | IBLK | VN084300.D | 03 Oct 2024 15:51 | JC\MD | Ok |
| 20 | IBLK | VN084301.D | 03 Oct 2024 16:15 | JC\MD | Ok |
| 21 | P4226-23DL | VN084302.D | 03 Oct 2024 16:39 | JC\MD | Ok |

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**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN100324

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 10/4/2024 9:52:33 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/4/2024 10:16:10 AM | | |
| SubDirectory | VN100324 | HP Acquire Method | | HP Processing Method | 82N093024W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130658 |
| Initial Calibration Stds | |
| CCC | VP130659,VP130660 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4285-03 | VN084303.D | 03 Oct 2024 17:03 | JC\MD | Not Ok |
| 23 | P4258-04 | VN084304.D | 03 Oct 2024 17:27 | JC\MD | Ok,M |
| 24 | VSTDCCC050 | VN084305.D | 03 Oct 2024 17:51 | JC\MD | Ok,M |

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 10/1/2024 9:40:01 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/1/2024 5:34:39 PM | | |
| SubDirectory | VN093024 | HP Acquire Method | | HP Processing Method | 82N093024W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130570 |
| Initial Calibration Stds | VP130580,VP130582,VP130583,VP130584,VP130585,VP130586 |
| CCC | VP130571,VP130572 |
| Internal Standard/PEM | |
| ICV/I.BLK | VP130587 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VN084211.D | 30 Sep 2024 09:24 | | JC\MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VN084212.D | 30 Sep 2024 11:45 | Need ICAL | JC\MD | Not Ok |
| 3 | VSTDICC100 | VSTDICC100 | VN084213.D | 30 Sep 2024 12:25 | | JC\MD | Ok,M |
| 4 | VSTDICCC050 | VSTDICCC050 | VN084214.D | 30 Sep 2024 12:49 | | JC\MD | Ok,M |
| 5 | VSTDICC020 | VSTDICC020 | VN084215.D | 30 Sep 2024 13:13 | | JC\MD | Ok,M |
| 6 | VSTDICC010 | VSTDICC010 | VN084216.D | 30 Sep 2024 13:37 | | JC\MD | Ok,M |
| 7 | VSTDICC005 | VSTDICC005 | VN084217.D | 30 Sep 2024 14:00 | | JC\MD | Ok,M |
| 8 | VSTDICC001 | VSTDICC001 | VN084218.D | 30 Sep 2024 14:48 | | JC\MD | Ok,M |
| 9 | IBLK | IBLK | VN084219.D | 30 Sep 2024 15:12 | | JC\MD | Ok |
| 10 | VSTDICV050 | ICVVN093024 | VN084220.D | 30 Sep 2024 15:36 | | JC\MD | Ok,M |
| 11 | VN0930MBL01 | VN0930MBL01 | VN084221.D | 30 Sep 2024 16:11 | | JC\MD | Ok |
| 12 | VN0930WBL01 | VN0930WBL01 | VN084222.D | 30 Sep 2024 16:35 | | JC\MD | Ok |
| 13 | VN0930WBS01 | VN0930WBS01 | VN084223.D | 30 Sep 2024 17:42 | | JC\MD | Ok,M |
| 14 | VN0930WBSD01 | VN0930WBSD01 | VN084224.D | 30 Sep 2024 18:06 | | JC\MD | Ok,M |
| 15 | P4116-24 | RE132D5-20240918 | VN084225.D | 30 Sep 2024 18:30 | vial A pH<2 Need 2x | JC\MD | Dilution |
| 16 | P4116-25 | RE132D6-20240918 | VN084226.D | 30 Sep 2024 18:54 | vial A pH<2 Need 40X | JC\MD | Dilution |
| 17 | P4116-26 | RE132D7-20240918 | VN084227.D | 30 Sep 2024 19:18 | vial A pH<2 Need 40X | JC\MD | Dilution |
| 18 | P4116-27 | DUP05-20240918 | VN084228.D | 30 Sep 2024 19:42 | vial A pH<2 Need 2x | JC\MD | Dilution |

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 10/1/2024 9:40:01 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/1/2024 5:34:39 PM | | |
| SubDirectory | VN093024 | HP Acquire Method | | HP Processing Method | 82N093024W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130570 |
| Initial Calibration Stds | VP130580,VP130582,VP130583,VP130584,VP130585,VP130586 |
| CCC | VP130571,VP130572 |
| Internal Standard/PEM | |
| ICV/I.BLK | VP130587 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | VSTDCCC050 | VSTDCCC050EC | VN084229.D | 30 Sep 2024 20:06 | | JC\MD | Ok,M |

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN100324

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 10/4/2024 9:52:33 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/4/2024 10:16:10 AM | | |
| SubDirectory | VN100324 | HP Acquire Method | | HP Processing Method | 82N093024W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130658 |
| Initial Calibration Stds | |
| CCC | VP130659,VP130660 |
| 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 | VN084282.D | 03 Oct 2024 08:20 | | JC\MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VN084283.D | 03 Oct 2024 08:43 | V13516 | JC\MD | Ok,M |
| 3 | VN1003MBL01 | VN1003MBL01 | VN084284.D | 03 Oct 2024 09:18 | | JC\MD | Ok |
| 4 | VN1003WBL01 | VN1003WBL01 | VN084285.D | 03 Oct 2024 09:42 | | JC\MD | Ok |
| 5 | VN1003WBS01 | VN1003WBS01 | VN084286.D | 03 Oct 2024 10:05 | | JC\MD | Ok,M |
| 6 | VN1003WBSD01 | VN1003WBSD01 | VN084287.D | 03 Oct 2024 10:40 | | JC\MD | Ok,M |
| 7 | P4226-09DL | DUP07-20240924DL | VN084288.D | 03 Oct 2024 11:04 | vial B pH<2 | JC\MD | Ok |
| 8 | P4226-13DL | TT101D2-20240925DL | VN084289.D | 03 Oct 2024 11:28 | vial B pH<2 | JC\MD | Ok |
| 9 | P4226-14 | TT205S1-20240925 | VN084290.D | 03 Oct 2024 11:52 | vial B pH<2 | JC\MD | Ok |
| 10 | P4226-15 | RW9-MW-01S-2024092 | VN084291.D | 03 Oct 2024 12:16 | vial B pH<2 | JC\MD | Ok |
| 11 | P4226-29 | TB | VN084292.D | 03 Oct 2024 12:40 | vial A pH<2 TB | JC\MD | Ok |
| 12 | P4226-19 | DUP09-20240925 | VN084293.D | 03 Oct 2024 13:04 | vial A pH<2 | JC\MD | Ok |
| 13 | P4226-20 | DUP10-20240925 | VN084294.D | 03 Oct 2024 13:28 | vial A pH<2 | JC\MD | Ok |
| 14 | P4226-27 | BPOW6-9-20240927 | VN084295.D | 03 Oct 2024 13:52 | vial A pH<2 | JC\MD | Ok |
| 15 | P4226-28 | BPOW6-10-20240927 | VN084296.D | 03 Oct 2024 14:16 | vial A pH<2 | JC\MD | Ok |
| 16 | P4226-23 | RW4-20240927 | VN084297.D | 03 Oct 2024 14:39 | vial A pH<2 Need 10X | JC\MD | Dilution |
| 17 | P4226-24MS | RW4-20240927MS | VN084298.D | 03 Oct 2024 15:03 | vial A pH<2 | JC\MD | Ok,M |
| 18 | P4226-25MSD | RW4-20240927MSD | VN084299.D | 03 Oct 2024 15:27 | vial A pH<2 | JC\MD | Ok,M |

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Fax : 908 789 8922



**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN100324

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 10/4/2024 9:52:33 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/4/2024 10:16:10 AM | | |
| SubDirectory | VN100324 | HP Acquire Method | | HP Processing Method | 82N093024W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP130658 |
| Initial Calibration Stds | |
| CCC | VP130659,VP130660 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | IBLK | IBLK | VN084300.D | 03 Oct 2024 15:51 | | JC\MD | Ok |
| 20 | IBLK | IBLK | VN084301.D | 03 Oct 2024 16:15 | | JC\MD | Ok |
| 21 | P4226-23DL | RW4-20240927DL | VN084302.D | 03 Oct 2024 16:39 | vial B pH<2 | JC\MD | Ok |
| 22 | P4285-03 | WATER-TOTES | VN084303.D | 03 Oct 2024 17:03 | vial A pH<2 Need 10X | JC\MD | Not Ok |
| 23 | P4258-04 | Chamberlain Ave | VN084304.D | 03 Oct 2024 17:27 | vial A pH#5.0 | JC\MD | Ok,M |
| 24 | VSTDCCC050 | VSTDCCC050EC | VN084305.D | 03 Oct 2024 17:51 | | JC\MD | Ok,M |

M : Manual Integration

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-03** | **Chamberlain Ave** | **SOIL** | | | **10/01/24** | | | **10/01/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 10/02/24 | |
| **P4258-03RE** | **Chamberlain AveRE** | **SOIL** | | | **10/01/24** | | | **10/01/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 10/03/24 | |
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP VOA | 8260D | | | 10/03/24 | |

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# TCLP EXTRACTION LOGPAGE

PB163826

**SOP ID :** M1311-TCLP-14

**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 :** 10/01/2024 **Time :** 15:30

**End Prep Date :** 10/02/2024 **Time :** 08:45

**Combination Ratio :** 20

**ZHE Cleaning Batch :** ~~N/A~~ JP VX100224

**Initial Room Temperature:** 23 °C

**Final Room Temperature:** 21 °C

**TCLP Technician Signature :** JP

**Supervisor By :** IR

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE U | Lot Number |
|---|---|---|
| TCLP-FLUID-1 | N/A | WP108622 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 40ml VOA Vials | 22437 | N/A |

**Extraction Conformance/Non-Conformance Comments:**

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

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/02/24 10:00 | JP ITC20 Room | VOC LAB |
| | Preparation Group | Analysis Group |

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**TCLP EXTRACTION LOGPAGE**

PB163826

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| P4232-04 | TP-R | 01 | 25.02 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| P4236-04 | TP4 | 02 | 25.03 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| P4236-08 | TP3 | 03 | 25.01 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| P4236-12 | TP1 | 04 | 25.03 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| P4236-16 | TP2 | 05 | 25.04 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| P4242-04 | TP-Q | 06 | 25.02 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| P4254-04 | MH-147-SLUDGE | 07 | 25.03 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| P4258-04 | Chamberlain Ave | 08 | 25.02 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| PB163826TB | LEB826 | 09 | 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 |
|---|---|---|---|---|---|---|---|
| P4232-04 | TP-R | N/A | N/A | N/A | N/A | 100 | N/A |
| P4236-04 | TP4 | N/A | N/A | N/A | N/A | 100 | N/A |
| P4236-08 | TP3 | N/A | N/A | N/A | N/A | 100 | N/A |
| P4236-12 | TP1 | N/A | N/A | N/A | N/A | 100 | N/A |
| P4236-16 | TP2 | N/A | N/A | N/A | N/A | 100 | N/A |
| P4242-04 | TP-Q | N/A | N/A | N/A | N/A | 100 | N/A |
| P4254-04 | MH-147-SLUDGE | N/A | N/A | N/A | N/A | 100 | N/A |
| P4258-04 | Chamberlain Ave | N/A | N/A | N/A | N/A | 100 | N/A |
| PB163826TB | LEB826 | N/A | N/A | N/A | N/A | N/A | N/A |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** tclp zhe p4236 **WorkList ID :** 183991 **Department :** TCLP Extraction **Date :** 10-01-2024 10:09:56

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4232-04 | TP-R | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | J51 | 09/30/2024 | 1311 ZHE |
| P4236-04 | TP4 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | J53 | 09/30/2024 | 1311 ZHE |
| P4236-08 | TP3 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | J53 | 09/30/2024 | 1311 ZHE |
| P4236-12 | TP1 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | J53 | 09/30/2024 | 1311 ZHE |
| P4236-16 | TP2 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | J53 | 09/30/2024 | 1311 ZHE |
| P4242-04 | TP-Q | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 1311 ZHE |
| P4254-04 | MH-147-SLUDGE | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 1311 ZHE |
| P4258-04 | Chamberlain Ave | Solid | TCLP ZHE Extraction | Cool 4 deg C | ROMA02 | H11 | 10/01/2024 | 1311 ZHE |



**Date/Time** 10/01/24 14:30
**Raw Sample Received by:** JD WC
**Raw Sample Relinquished by:** JT Cruz



**Date/Time** 10/01/24 16:30
**Raw Sample Received by:** JT Cruz
**Raw Sample Relinquished by:** JD WC

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **Chamberlain Ave** | | | | | | | | |
| P4258-03 | Chamberlain Ave | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 180.000 | AB | 0 | 0 | ug/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Benzophenone | * | 410.000 | J | 0 | 0 | ug/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Butane, 2-methoxy-2-methyl- | * | 2,200.000 | JB | 0 | 0 | ug/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Heptadecyl trifluoroacetate | * | 280.000 | J | 0 | 0 | ug/Kg |
| P4258-03 | Chamberlain Ave | SOIL | n-Hexadecanoic acid | * | 300.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **3,370.00** | | | | |
| | | | **Total Concentration:** | | **3,370.00** | | | | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 86 |
| 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 |
|---|---|---|---|---|
| BF139794.D | 1 | 10/11/24 09:38 | 10/14/24 17:56 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 210 | U | 210 | 380 | ug/Kg |
| 108-95-2 | Phenol | 96.3 | U | 96.3 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 97.3 | U | 97.3 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 97.0 | U | 97.0 | 200 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 93.7 | U | 93.7 | 200 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 110 | U | 110 | 200 | ug/Kg |
| 98-86-2 | Acetophenone | 100 | U | 100 | 200 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 92.7 | U | 92.7 | 380 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 46.8 | U | 46.8 | 93.0 | ug/Kg |
| 67-72-1 | Hexachloroethane | 96.4 | U | 96.4 | 200 | ug/Kg |
| 98-95-3 | Nitrobenzene | 110 | U | 110 | 200 | ug/Kg |
| 78-59-1 | Isophorone | 98.3 | UQ | 98.3 | 200 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 110 | UQ | 110 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 110 | U | 110 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 99.7 | U | 99.7 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 87.7 | U | 87.7 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 96.0 | U | 96.0 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 96.0 | U | 96.0 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 96.8 | U | 96.8 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 100 | U | 100 | 380 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 90.1 | U | 90.1 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 95.9 | U | 95.9 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 180 | UQ | 180 | 380 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 83.0 | U | 83.0 | 200 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 86.0 | U | 86.0 | 200 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 100 | U | 100 | 200 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 96.8 | U | 96.8 | 200 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 110 | UQ | 110 | 200 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 94.9 | UQ | 94.9 | 200 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 86 |
| 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 |
|---|---|---|---|---|
| BF139794.D | 1 | 10/11/24 09:38 | 10/14/24 17:56 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 100 | U | 100 | 200 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 96.7 | U | 96.7 | 200 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 100 | U | 100 | 200 | ug/Kg |
| 83-32-9 | Acenaphthene | 94.2 | UQ | 94.2 | 200 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 280 | U | 280 | 380 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 130 | U | 130 | 380 | ug/Kg |
| 132-64-9 | Dibenzofuran | 98.1 | U | 98.1 | 200 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 100 | UQ | 100 | 200 | ug/Kg |
| 84-66-2 | Diethylphthalate | 93.1 | U | 93.1 | 200 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 99.5 | U | 99.5 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 99.4 | U | 99.4 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 120 | U | 120 | 200 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 140 | UQ | 140 | 380 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 94.8 | UQ | 94.8 | 200 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 91.7 | U | 91.7 | 200 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 98.8 | UQ | 98.8 | 200 | ug/Kg |
| 1912-24-9 | Atrazine | 110 | U | 110 | 200 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 89.8 | U | 89.8 | 380 | ug/Kg |
| 85-01-8 | Phenanthrene | 97.6 | U | 97.6 | 200 | ug/Kg |
| 120-12-7 | Anthracene | 98.1 | U | 98.1 | 200 | ug/Kg |
| 86-74-8 | Carbazole | 93.3 | U | 93.3 | 200 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 98.0 | U | 98.0 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 94.9 | U | 94.9 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 96.4 | UQ | 96.4 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 110 | UQ | 110 | 200 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 110 | U | 110 | 380 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 93.8 | UQ | 93.8 | 200 | ug/Kg |
| 218-01-9 | Chrysene | 92.4 | UQ | 92.4 | 200 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 110 | U | 110 | 200 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 130 | U | 130 | 380 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 94.2 | U | 94.2 | 200 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 86 |
| 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 |
|---|---|---|---|---|
| BF139794.D | 1 | 10/11/24 09:38 | 10/14/24 17:56 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 96.0 | U | 96.0 | 200 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 110 | UQ | 110 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 90.8 | UQ | 90.8 | 200 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 94.4 | U | 94.4 | 200 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 93.1 | U | 93.1 | 200 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 100 | U | 100 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 130 | U | 130 | 200 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 86.8 | U | 86.8 | 200 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 84.3 | | 18 - 112 | 56% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 82.8 | | 15 - 107 | 55% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 53.5 | | 18 - 107 | 54% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 53.0 | | 20 - 109 | 53% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 78.3 | | 10 - 116 | 52% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 63.6 | | 10 - 105 | 64% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 105000 | 6.863 | | | |
| 1146-65-2 | Naphthalene-d8 | 416000 | 8.139 | | | |
| 15067-26-2 | Acenaphthene-d10 | 239000 | 9.898 | | | |
| 1517-22-2 | Phenanthrene-d10 | 453000 | 11.386 | | | |
| 1719-03-5 | Chrysene-d12 | 213000 | 14.021 | | | |
| 1520-96-3 | Perylene-d12 | 177000 | 15.498 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 2200 | JB | | 2.17 | ug/Kg |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 180 | AB | | 5.08 | ug/Kg |
| 000119-61-9 | Benzophenone | 410 | J | | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 300 | J | | 11.9 | ug/Kg |
| 1010351-87-0 | Heptadecyl trifluoroacetate | 280 | J | | 13.9 | ug/Kg |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | | | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | | | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | | | Matrix: | SOIL |
| Analytical Method: | SW8270 | | | % Solid: | 86 |
| 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 |
|---|---|---|---|---|
| BF139794.D | 1 | 10/11/24 09:38 | 10/14/24 17:56 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|

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

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

# QC SUMMARY

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# Surrogate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P4258-03 | Chamberlain Ave | 2-Fluorophenol | 150 | 84.3 | 56 | | 18 | 112 |
| | | Phenol-d6 | 150 | 82.8 | 55 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 53.5 | 54 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 53.0 | 53 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 78.3 | 52 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 63.6 | 64 | | 10 | 105 |
| P4385-06MS | SP-3MS | 2-Fluorophenol | 150 | 115 | 77 | | 18 | 112 |
| | | Phenol-d6 | 150 | 113 | 75 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 86.1 | 86 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 83.1 | 83 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 122 | 81 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 84.2 | 84 | | 10 | 105 |
| P4385-06MSD | SP-3MSD | 2-Fluorophenol | 150 | 117 | 78 | | 18 | 112 |
| | | Phenol-d6 | 150 | 116 | 77 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 87.2 | 87 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 83.0 | 83 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 123 | 82 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 82.8 | 83 | | 10 | 105 |
| PB164071BL | PB164071BL | 2-Fluorophenol | 150 | 135 | 90 | | 18 | 112 |
| | | Phenol-d6 | 150 | 132 | 88 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 98.9 | 99 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 93.6 | 94 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 150 | 100 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 90.0 | 90 | | 10 | 105 |
| PB164071BS | PB164071BS | 2-Fluorophenol | 150 | 135 | 90 | | 18 | 112 |
| | | Phenol-d6 | 150 | 132 | 88 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 98.9 | 99 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 93.3 | 93 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 154 | 103 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 113 | 113 | * | 10 | 105 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4385-06MS** | | **Client Sample ID: SP-3MS** | | | | | | **DataFile: BF139902.D** | | | |
| Benzaldehyde | 1800 | 0 | 760 | ug/Kg | 42 | | | | 10 | 86 | |
| Phenol | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 67 | 126 | |
| bis(2-Chloroethyl)ether | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 54 | 125 | |
| 2-Chlorophenol | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 79 | 107 | |
| 2-Methylphenol | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 66 | 122 | |
| 2,2-oxybis(1-Chloropropane) | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 65 | 110 | |
| Acetophenone | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 75 | 111 | |
| 3+4-Methylphenols | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 66 | 104 | |
| N-Nitroso-di-n-propylamine | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 59 | 119 | |
| Hexachloroethane | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 65 | 117 | |
| Nitrobenzene | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 70 | 119 | |
| Isophorone | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 76 | 122 | |
| 2-Nitrophenol | 1800 | 0 | 2100 | ug/Kg | 117 | | | | 54 | 145 | |
| 2,4-Dimethylphenol | 1800 | 0 | 2000 | ug/Kg | 111 | | | | 44 | 135 | |
| bis(2-Chloroethoxy)methane | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 68 | 112 | |
| 2,4-Dichlorophenol | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 72 | 118 | |
| Naphthalene | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 72 | 110 | |
| 4-Chloroaniline | 1800 | 0 | 370 | ug/Kg | 21 | | | | 10 | 91 | |
| Hexachlorobutadiene | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 66 | 114 | |
| Caprolactam | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 51 | 134 | |
| 4-Chloro-3-methylphenol | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 57 | 132 | |
| 2-Methylnaphthalene | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 59 | 123 | |
| Hexachlorocyclopentadiene | 3500 | 0 | 5400 | ug/Kg | 154 | | | | 10 | 175 | |
| 2,4,6-Trichlorophenol | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 72 | 117 | |
| 2,4,5-Trichlorophenol | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 72 | 117 | |
| 1,1-Biphenyl | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 75 | 113 | |
| 2-Chloronaphthalene | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 67 | 118 | |
| 2-Nitroaniline | 1800 | 0 | 2000 | ug/Kg | 111 | | | | 69 | 127 | |
| Dimethylphthalate | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 70 | 113 | |
| Acenaphthylene | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 79 | 118 | |
| 2,6-Dinitrotoluene | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 70 | 125 | |
| 3-Nitroaniline | 1800 | 0 | 1100 | ug/Kg | 61 | | | | 30 | 99 | |
| Acenaphthene | 1800 | 0 | 2000 | ug/Kg | 111 | | | | 70 | 121 | |
| 2,4-Dinitrophenol | 3500 | 0 | 4200 | ug/Kg | 120 | | | | 10 | 155 | |
| 4-Nitrophenol | 3500 | 0 | 3600 | ug/Kg | 103 | | | | 45 | 133 | |
| Dibenzofuran | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 72 | 110 | |
| 2,4-Dinitrotoluene | 1800 | 0 | 2000 | ug/Kg | 111 | | | | 55 | 128 | |
| Diethylphthalate | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 70 | 112 | |
| 4-Chlorophenyl-phenylether | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 71 | 108 | |
| Fluorene | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 68 | 116 | |
| 4-Nitroaniline | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 55 | 120 | |
| 4,6-Dinitro-2-methylphenol | 1800 | 0 | 2400 | ug/Kg | 133 | | | | 10 | 160 | |
| N-Nitrosodiphenylamine | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 73 | 118 | |
| 4-Bromophenyl-phenylether | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 65 | 121 | |
| Hexachlorobenzene | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 67 | 118 | |
| Atrazine | 1800 | 0 | 2200 | ug/Kg | 122 | | | | 79 | 127 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 3500 | 0 | 3400 | ug/Kg | 97 | | | | 47 | 128 | |
| Phenanthrene | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 52 | 128 | |
| Anthracene | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 62 | 124 | |
| Carbazole | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 59 | 119 | |
| Di-n-butylphthalate | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 69 | 118 | |
| Fluoranthene | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 44 | 125 | |
| Pyrene | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 26 | 142 | |
| Butylbenzylphthalate | 1800 | 0 | 2200 | ug/Kg | 122 | | | | 64 | 126 | |
| 3,3-Dichlorobenzidine | 1800 | 0 | 970 | ug/Kg | 54 | | | | 33 | 116 | |
| Benzo(a)anthracene | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 71 | 114 | |
| Chrysene | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 57 | 121 | |
| bis(2-Ethylhexyl)phthalate | 1800 | 0 | 2500 | ug/Kg | 139 | | | | 42 | 169 | |
| Di-n-octyl phthalate | 1800 | 0 | 2300 | ug/Kg | 128 | | | | 23 | 175 | |
| Benzo(b)fluoranthene | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 67 | 121 | |
| Benzo(k)fluoranthene | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 57 | 134 | |
| Benzo(a)pyrene | 1800 | 0 | 2000 | ug/Kg | 111 | | | | 70 | 142 | |
| Indeno(1,2,3-cd)pyrene | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 40 | 129 | |
| Dibenz(a,h)anthracene | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 43 | 123 | |
| Benzo(g,h,i)perylene | 1800 | 0 | 1500 | ug/Kg | 83 | | | | 24 | 125 | |
| 1,2,4,5-Tetrachlorobenzene | 1800 | 0 | 1800 | ug/Kg | 100 | | | | 69 | 124 | |
| 1,4-Dioxane | 1800 | 0 | 1700 | ug/Kg | 94 | | | | 46 | 112 | |
| 2,3,4,6-Tetrachlorophenol | 1800 | 0 | 1900 | ug/Kg | 106 | | | | 69 | 112 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4385-06MSD** | | **Client Sample ID: SP-3MSD** | | | | | | **DataFile: BF139903.D** | | | |
| Benzaldehyde | 1800 | 0 | 780 | ug/Kg | 43 | 2 | | | 10 | 86 | 20 |
| Phenol | 1800 | 0 | 1900 | ug/Kg | 106 | 0 | | | 67 | 126 | 20 |
| bis(2-Chloroethyl)ether | 1800 | 0 | 1900 | ug/Kg | 106 | 6 | | | 54 | 125 | 20 |
| 2-Chlorophenol | 1800 | 0 | 1900 | ug/Kg | 106 | 0 | | | 79 | 107 | 20 |
| 2-Methylphenol | 1800 | 0 | 1900 | ug/Kg | 106 | 0 | | | 66 | 122 | 20 |
| 2,2-oxybis(1-Chloropropane) | 1800 | 0 | 1900 | ug/Kg | 106 | 6 | | | 65 | 110 | 20 |
| Acetophenone | 1800 | 0 | 1700 | ug/Kg | 94 | 6 | | | 75 | 111 | 20 |
| 3+4-Methylphenols | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 66 | 104 | 20 |
| N-Nitroso-di-n-propylamine | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 59 | 119 | 20 |
| Hexachloroethane | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 65 | 117 | 20 |
| Nitrobenzene | 1800 | 0 | 1800 | ug/Kg | 100 | 6 | | | 70 | 119 | 20 |
| Isophorone | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 76 | 122 | 20 |
| 2-Nitrophenol | 1800 | 0 | 2200 | ug/Kg | 122 | 4 | | | 54 | 145 | 20 |
| 2,4-Dimethylphenol | 1800 | 0 | 2100 | ug/Kg | 117 | 5 | | | 44 | 135 | 20 |
| bis(2-Chloroethoxy)methane | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 68 | 112 | 20 |
| 2,4-Dichlorophenol | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 72 | 118 | 20 |
| Naphthalene | 1800 | 0 | 1800 | ug/Kg | 100 | 6 | | | 72 | 110 | 20 |
| 4-Chloroaniline | 1800 | 0 | 340 | ug/Kg | 19 | 10 | | | 10 | 91 | 20 |
| Hexachlorobutadiene | 1800 | 0 | 1800 | ug/Kg | 100 | 6 | | | 66 | 114 | 20 |
| Caprolactam | 1800 | 0 | 1900 | ug/Kg | 106 | 0 | | | 51 | 134 | 20 |
| 4-Chloro-3-methylphenol | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 57 | 132 | 20 |
| 2-Methylnaphthalene | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 59 | 123 | 20 |
| Hexachlorocyclopentadiene | 3500 | 0 | 5600 | ug/Kg | 160 | 4 | | | 10 | 175 | 20 |
| 2,4,6-Trichlorophenol | 1800 | 0 | 2000 | ug/Kg | 111 | 5 | | | 72 | 117 | 20 |
| 2,4,5-Trichlorophenol | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 72 | 117 | 20 |
| 1,1-Biphenyl | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 75 | 113 | 20 |
| 2-Chloronaphthalene | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 67 | 118 | 20 |
| 2-Nitroaniline | 1800 | 0 | 2000 | ug/Kg | 111 | 0 | | | 69 | 127 | 20 |
| Dimethylphthalate | 1800 | 0 | 1900 | ug/Kg | 106 | 0 | | | 70 | 113 | 20 |
| Acenaphthylene | 1800 | 0 | 1900 | ug/Kg | 106 | 0 | | | 79 | 118 | 20 |
| 2,6-Dinitrotoluene | 1800 | 0 | 1900 | ug/Kg | 106 | 0 | | | 70 | 125 | 20 |
| 3-Nitroaniline | 1800 | 0 | 1100 | ug/Kg | 61 | 0 | | | 30 | 99 | 20 |
| Acenaphthene | 1800 | 0 | 2000 | ug/Kg | 111 | 0 | | | 70 | 121 | 20 |
| 2,4-Dinitrophenol | 3500 | 0 | 4400 | ug/Kg | 126 | 5 | | | 10 | 155 | 20 |
| 4-Nitrophenol | 3500 | 0 | 3700 | ug/Kg | 106 | 3 | | | 45 | 133 | 20 |
| Dibenzofuran | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 72 | 110 | 20 |
| 2,4-Dinitrotoluene | 1800 | 0 | 2000 | ug/Kg | 111 | 0 | | | 55 | 128 | 20 |
| Diethylphthalate | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 70 | 112 | 20 |
| 4-Chlorophenyl-phenylether | 1800 | 0 | 1700 | ug/Kg | 94 | 0 | | | 71 | 108 | 20 |
| Fluorene | 1800 | 0 | 1700 | ug/Kg | 94 | 0 | | | 68 | 116 | 20 |
| 4-Nitroaniline | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 55 | 120 | 20 |
| 4,6-Dinitro-2-methylphenol | 1800 | 0 | 2500 | ug/Kg | 139 | 4 | | | 10 | 160 | 20 |
| N-Nitrosodiphenylamine | 1800 | 0 | 1900 | ug/Kg | 106 | 6 | | | 73 | 118 | 20 |
| 4-Bromophenyl-phenylether | 1800 | 0 | 1900 | ug/Kg | 106 | 0 | | | 65 | 121 | 20 |
| Hexachlorobenzene | 1800 | 0 | 1800 | ug/Kg | 100 | 0 | | | 67 | 118 | 20 |
| Atrazine | 1800 | 0 | 2200 | ug/Kg | 122 | 0 | | | 79 | 127 | 20 |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 3500 | 0 | 3500 | ug/Kg | 100 | | 3 | | 47 | 128 | 20 |
| Phenanthrene | 1800 | 0 | 1800 | ug/Kg | 100 | | 0 | | 52 | 128 | 20 |
| Anthracene | 1800 | 0 | 1800 | ug/Kg | 100 | | 0 | | 62 | 124 | 20 |
| Carbazole | 1800 | 0 | 1700 | ug/Kg | 94 | | 0 | | 59 | 119 | 20 |
| Di-n-butylphthalate | 1800 | 0 | 1800 | ug/Kg | 100 | | 0 | | 69 | 118 | 20 |
| Fluoranthene | 1800 | 0 | 1700 | ug/Kg | 94 | | 0 | | 44 | 125 | 20 |
| Pyrene | 1800 | 0 | 1700 | ug/Kg | 94 | | 0 | | 26 | 142 | 20 |
| Butylbenzylphthalate | 1800 | 0 | 2200 | ug/Kg | 122 | | 0 | | 64 | 126 | 20 |
| 3,3-Dichlorobenzidine | 1800 | 0 | 970 | ug/Kg | 54 | | 0 | | 33 | 116 | 20 |
| Benzo(a)anthracene | 1800 | 0 | 1900 | ug/Kg | 106 | | 0 | | 71 | 114 | 20 |
| Chrysene | 1800 | 0 | 1900 | ug/Kg | 106 | | 0 | | 57 | 121 | 20 |
| bis(2-Ethylhexyl)phthalate | 1800 | 0 | 2500 | ug/Kg | 139 | | 0 | | 42 | 169 | 20 |
| Di-n-octyl phthalate | 1800 | 0 | 2300 | ug/Kg | 128 | | 0 | | 23 | 175 | 20 |
| Benzo(b)fluoranthene | 1800 | 0 | 1900 | ug/Kg | 106 | | 0 | | 67 | 121 | 20 |
| Benzo(k)fluoranthene | 1800 | 0 | 1800 | ug/Kg | 100 | | 6 | | 57 | 134 | 20 |
| Benzo(a)pyrene | 1800 | 0 | 2000 | ug/Kg | 111 | | 0 | | 70 | 142 | 20 |
| Indeno(1,2,3-cd)pyrene | 1800 | 0 | 1600 | ug/Kg | 89 | | 5 | | 40 | 129 | 20 |
| Dibenz(a,h)anthracene | 1800 | 0 | 1600 | ug/Kg | 89 | | 5 | | 43 | 123 | 20 |
| Benzo(g,h,i)perylene | 1800 | 0 | 1400 | ug/Kg | 78 | | 6 | | 24 | 125 | 20 |
| 1,2,4,5-Tetrachlorobenzene | 1800 | 0 | 1800 | ug/Kg | 100 | | 0 | | 69 | 124 | 20 |
| 1,4-Dioxane | 1800 | 0 | 1700 | ug/Kg | 94 | | 0 | | 46 | 112 | 20 |
| 2,3,4,6-Tetrachlorophenol | 1800 | 0 | 1900 | ug/Kg | 106 | | 0 | | 69 | 112 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8270E **DataFile:** BF139921.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164071BS | Benzaldehyde | 1700 | 640 | ug/Kg | 38 | | | | 10 | 133 | |
| | Phenol | 1700 | 1600 | ug/Kg | 94 | | | | 62 | 112 | |
| | bis(2-Chloroethyl)ether | 1700 | 1600 | ug/Kg | 94 | | | | 60 | 101 | |
| | 2-Chlorophenol | 1700 | 1700 | ug/Kg | 100 | | | | 65 | 112 | |
| | 2-Methylphenol | 1700 | 1700 | ug/Kg | 100 | | | | 61 | 108 | |
| | 2,2-oxybis(1-Chloropropane) | 1700 | 1600 | ug/Kg | 94 | | | | 51 | 100 | |
| | Acetophenone | 1700 | 1600 | ug/Kg | 94 | | | | 66 | 98 | |
| | 3+4-Methylphenols | 1700 | 1600 | ug/Kg | 94 | | | | 58 | 111 | |
| | N-Nitroso-di-n-propylamine | 1700 | 1600 | ug/Kg | 94 | | | | 63 | 95 | |
| | Hexachloroethane | 1700 | 1600 | ug/Kg | 94 | | | | 72 | 108 | |
| | Nitrobenzene | 1700 | 1600 | ug/Kg | 94 | | | | 57 | 101 | |
| | Isophorone | 1700 | 1700 | ug/Kg | 100 | | * | | 59 | 99 | |
| | 2-Nitrophenol | 1700 | 1900 | ug/Kg | 112 | | * | | 61 | 111 | |
| | 2,4-Dimethylphenol | 1700 | 1900 | ug/Kg | 112 | | | | 46 | 141 | |
| | bis(2-Chloroethoxy)methane | 1700 | 1600 | ug/Kg | 94 | | | | 66 | 97 | |
| | 2,4-Dichlorophenol | 1700 | 1700 | ug/Kg | 100 | | | | 62 | 107 | |
| | Naphthalene | 1700 | 1600 | ug/Kg | 94 | | | | 62 | 100 | |
| | 4-Chloroaniline | 1700 | 670 | ug/Kg | 39 | | | | 16 | 100 | |
| | Hexachlorobutadiene | 1700 | 1600 | ug/Kg | 94 | | | | 53 | 98 | |
| | Caprolactam | 1700 | 1700 | ug/Kg | 100 | | | | 67 | 110 | |
| | 4-Chloro-3-methylphenol | 1700 | 1600 | ug/Kg | 94 | | | | 58 | 112 | |
| | 2-Methylnaphthalene | 1700 | 1600 | ug/Kg | 94 | | | | 60 | 104 | |
| | Hexachlorocyclopentadiene | 3300 | 6200 | ug/Kg | 188 | | * | | 45 | 165 | |
| | 2,4,6-Trichlorophenol | 1700 | 1700 | ug/Kg | 100 | | | | 59 | 102 | |
| | 2,4,5-Trichlorophenol | 1700 | 1600 | ug/Kg | 94 | | | | 61 | 98 | |
| | 1,1-Biphenyl | 1700 | 1600 | ug/Kg | 94 | | | | 57 | 103 | |
| | 2-Chloronaphthalene | 1700 | 1600 | ug/Kg | 94 | | | | 58 | 99 | |
| | 2-Nitroaniline | 1700 | 1800 | ug/Kg | 106 | | * | | 66 | 101 | |
| | Dimethylphthalate | 1700 | 1700 | ug/Kg | 100 | | * | | 61 | 99 | |
| | Acenaphthylene | 1700 | 1700 | ug/Kg | 100 | | | | 63 | 101 | |
| | 2,6-Dinitrotoluene | 1700 | 1700 | ug/Kg | 100 | | | | 61 | 104 | |
| | 3-Nitroaniline | 1700 | 1100 | ug/Kg | 65 | | | | 28 | 100 | |
| | Acenaphthene | 1700 | 1800 | ug/Kg | 106 | | * | | 57 | 104 | |
| | 2,4-Dinitrophenol | 3300 | 4200 | ug/Kg | 127 | | | | 37 | 128 | |
| | 4-Nitrophenol | 3300 | 3600 | ug/Kg | 109 | | | | 48 | 119 | |
| | Dibenzofuran | 1700 | 1600 | ug/Kg | 94 | | | | 63 | 99 | |
| | 2,4-Dinitrotoluene | 1700 | 1900 | ug/Kg | 112 | | * | | 60 | 106 | |
| | Diethylphthalate | 1700 | 1600 | ug/Kg | 94 | | | | 60 | 101 | |
| | 4-Chlorophenyl-phenylether | 1700 | 1600 | ug/Kg | 94 | | | | 58 | 98 | |
| | Fluorene | 1700 | 1600 | ug/Kg | 94 | | | | 61 | 101 | |
| | 4-Nitroaniline | 1700 | 1700 | ug/Kg | 100 | | | | 64 | 103 | |
| | 4,6-Dinitro-2-methylphenol | 1700 | 2400 | ug/Kg | 141 | | * | | 76 | 113 | |
| | N-Nitrosodiphenylamine | 1700 | 1700 | ug/Kg | 100 | | * | | 71 | 99 | |
| | 4-Bromophenyl-phenylether | 1700 | 1700 | ug/Kg | 100 | | | | 66 | 102 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8270E **DataFile:** BF139921.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164071BS | Hexachlorobenzene | 1700 | 1700 | ug/Kg | 100 | | * | | 64 | 98 | |
| | Atrazine | 1700 | 1900 | ug/Kg | 112 | | | | 47 | 152 | |
| | Pentachlorophenol | 3300 | 3400 | ug/Kg | 103 | | | | 67 | 105 | |
| | Phenanthrene | 1700 | 1700 | ug/Kg | 100 | | | | 59 | 103 | |
| | Anthracene | 1700 | 1700 | ug/Kg | 100 | | | | 61 | 105 | |
| | Carbazole | 1700 | 1600 | ug/Kg | 94 | | | | 61 | 99 | |
| | Di-n-butylphthalate | 1700 | 1600 | ug/Kg | 94 | | | | 58 | 104 | |
| | Fluoranthene | 1700 | 1600 | ug/Kg | 94 | | | | 57 | 107 | |
| | Pyrene | 1700 | 1900 | ug/Kg | 112 | | * | | 59 | 103 | |
| | Butylbenzylphthalate | 1700 | 1900 | ug/Kg | 112 | | * | | 55 | 103 | |
| | 3,3-Dichlorobenzidine | 1700 | 1200 | ug/Kg | 71 | | | | 42 | 91 | |
| | Benzo(a)anthracene | 1700 | 1800 | ug/Kg | 106 | | * | | 60 | 102 | |
| | Chrysene | 1700 | 1800 | ug/Kg | 106 | | * | | 59 | 101 | |
| | bis(2-Ethylhexyl)phthalate | 1700 | 2000 | ug/Kg | 118 | | | | 54 | 135 | |
| | Di-n-octyl phthalate | 1700 | 2000 | ug/Kg | 118 | | | | 52 | 137 | |
| | Benzo(b)fluoranthene | 1700 | 1700 | ug/Kg | 100 | | | | 62 | 109 | |
| | Benzo(k)fluoranthene | 1700 | 1600 | ug/Kg | 94 | | | | 62 | 109 | |
| | Benzo(a)pyrene | 1700 | 1900 | ug/Kg | 112 | | * | | 63 | 103 | |
| | Indeno(1,2,3-cd)pyrene | 1700 | 2000 | ug/Kg | 118 | | * | | 63 | 101 | |
| | Dibenz(a,h)anthracene | 1700 | 1900 | ug/Kg | 112 | | | | 61 | 112 | |
| | Benzo(g,h,i)perylene | 1700 | 1800 | ug/Kg | 106 | | | | 70 | 108 | |
| | 1,2,4,5-Tetrachlorobenzene | 1700 | 1600 | ug/Kg | 94 | | | | 53 | 101 | |
| | 1,4-Dioxane | 1700 | 1300 | ug/Kg | 76 | | | | 50 | 96 | |
| | 2,3,4,6-Tetrachlorophenol | 1700 | 1800 | ug/Kg | 106 | | | | 59 | 108 | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164071BL

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: BF139920.D Lab Sample ID: PB164071BL

Instrument ID: BNA_F Date Extracted: 10/11/2024

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

Level: (low/med) LOW Time Analyzed: 11:05

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB164071BS | PB164071BS | BF139921.D | 10/22/2024 |
| Chamberlain Ave | P4258-03 | BF139794.D | 10/14/2024 |
| SP-3MS | P4385-06MS | BF139902.D | 10/21/2024 |
| SP-3MSD | P4385-06MSD | BF139903.D | 10/21/2024 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM SAS No.: P4258 SDG NO.: P4258

Lab File ID: BF139583.D DFTPP Injection Date: 10/01/2024

Instrument ID: BNA_F DFTPP Injection Time: 13:38

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 49.4 |
| 68 | Less than 2.0% of mass 69 | 0.8 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 42.4 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 49.6 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 26.5 |
| 365 | Greater than 1% of mass 198 | 3.2 |
| 441 | Present, but less than mass 443 | 13.6 |
| 442 | Greater than 50% of mass 198 | 86.9 |
| 443 | 15.0 - 24.0% of mass 442 | 16.5 ( 19 ) 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 | BF139584.D | 10/01/2024 | 14:05 |
| SSTDICC005 | SSTDICC005 | BF139585.D | 10/01/2024 | 14:34 |
| SSTDICC010 | SSTDICC010 | BF139586.D | 10/01/2024 | 15:02 |
| SSTDICC020 | SSTDICC020 | BF139587.D | 10/01/2024 | 15:30 |
| SSTDICCC040 | SSTDICCC040 | BF139588.D | 10/01/2024 | 15:58 |
| SSTDICC050 | SSTDICC050 | BF139589.D | 10/01/2024 | 16:25 |
| SSTDICC060 | SSTDICC060 | BF139590.D | 10/01/2024 | 16:54 |
| SSTDICC080 | SSTDICC080 | BF139591.D | 10/01/2024 | 17:22 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM SAS No.: P4258 SDG NO.: P4258

Lab File ID: BF139786.D DFTPP Injection Date: 10/14/2024

Instrument ID: BNA_F DFTPP Injection Time: 12:49

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 44 |
| 68 | Less than 2.0% of mass 69 | 0.8 ( 2 ) 1 |
| 69 | Mass 69 relative abundance | 38.5 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 47.5 |
| 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 | 26.4 |
| 365 | Greater than 1% of mass 198 | 3.5 |
| 441 | Present, but less than mass 443 | 14.7 |
| 442 | Greater than 50% of mass 198 | 94.4 |
| 443 | 15.0 - 24.0% of mass 442 | 17.8 (18.8) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF139787.D | 10/14/2024 | 14:30 |
| Chamberlain Ave | P4258-03 | BF139794.D | 10/14/2024 | 17:56 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM SAS No.: P4258 SDG NO.: P4258

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: ROMA02

Lab Code: CHEM SAS No.: P4258 SDG NO.: P4258

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 | 98.4 |
| 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 |
| SP-3MS | P4385-06MS | BF139902.D | 10/21/2024 | 14:47 |
| SP-3MSD | P4385-06MSD | BF139903.D | 10/21/2024 | 15:15 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM SAS No.: P4258 SDG NO.: P4258

Lab File ID: BF139916.D DFTPP Injection Date: 10/22/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:11

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 39.1 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.7 ) 1 |
| 69 | Mass 69 relative abundance | 34 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.7 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 42.5 |
| 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 | 6.4 |
| 275 | 10.0 - 60.0% of mass 198 | 26.8 |
| 365 | Greater than 1% of mass 198 | 3.2 |
| 441 | Present, but less than mass 443 | 15.3 |
| 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 | BF139917.D | 10/22/2024 | 09:39 |
| PB164071BL | PB164071BL | BF139920.D | 10/22/2024 | 11:05 |
| PB164071BS | PB164071BS | BF139921.D | 10/22/2024 | 11:34 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/14/2024

Lab File ID: BF139787.D Time Analyzed: 14:30

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 | 106437 | 6.863 | 392664 | 8.15 | 208571 | 9.90 |
| | UPPER LIMIT | 212874 | 7.363 | 785328 | 8.645 | 417142 | 10.404 |
| | LOWER LIMIT | 53218.5 | 6.363 | 196332 | 7.645 | 104286 | 9.404 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | Chamberlain Ave | 105117 | 6.86 | 416218 | 8.14 | 238846 | 9.90 |

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.: P4258 SAS No.: P4258 SDG NO.: P4258

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/14/2024

Lab File ID: BF139787.D Time Analyzed: 14:30

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 | 338151 | 11.386 | 160091 | 14.027 | 184260 | 15.504 |
| | UPPER LIMIT | 676302 | 11.886 | 320182 | 14.527 | 368520 | 16.004 |
| | LOWER LIMIT | 169076 | 10.886 | 80045.5 | 13.527 | 92130 | 15.004 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | Chamberlain Ave | 453325 | 11.39 | 213480 | 14.02 | 177491 | 15.50 |

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.: P4258 SAS No.: P4258 SDG NO.: P4258

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 | SP-3MS | 159111 | 6.89 | 617785 | 8.18 | 335465 | 9.93 |
| 02 | SP-3MSD | 163321 | 6.89 | 638402 | 8.18 | 343933 | 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.: P4258 SAS No.: P4258 SDG NO.: P4258

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 | SP-3MS | 563658 | 11.42 | 294671 | 14.06 | 343985 | 15.53 |
| 02 | SP-3MSD | 570576 | 11.42 | 298930 | 14.06 | 341306 | 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.: P4258 SAS No.: P4258 SDG NO.: P4258

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

Lab File ID: BF139917.D Time Analyzed: 09:39

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 | 157034 | 6.892 | 594103 | 8.18 | 330233 | 9.93 |
| | UPPER LIMIT | 314068 | 7.392 | 1188210 | 8.675 | 660466 | 10.433 |
| | LOWER LIMIT | 78517 | 6.392 | 297052 | 7.675 | 165117 | 9.433 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164071BL | 150261 | 6.89 | 593957 | 8.17 | 338069 | 9.93 |
| 02 | PB164071BS | 149304 | 6.89 | 587812 | 8.18 | 331508 | 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.: P4258 SAS No.: P4258 SDG NO.: P4258

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

Lab File ID: BF139917.D Time Analyzed: 09:39

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 | 578135 | 11.416 | 280536 | 14.057 | 304746 | 15.533 |
| | UPPER LIMIT | 1156270 | 11.916 | 561072 | 14.557 | 609492 | 16.033 |
| | LOWER LIMIT | 289068 | 10.916 | 140268 | 13.557 | 152373 | 15.033 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164071BL | 611789 | 11.41 | 390858 | 14.05 | 293996 | 15.53 |
| 02 | PB164071BS | 575136 | 11.42 | 270065 | 14.06 | 308770 | 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: | Roman E&G Corp | | | Date Collected: | |
| Project: | Perth Amboy | | | Date Received: | |
| Client Sample ID: | PB164071BL | | | SDG No.: | P4258 |
| Lab Sample ID: | PB164071BL | | | 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 |
|---|---|---|---|---|
| BF139920.D | 1 | 10/11/24 09:38 | 10/22/24 11:05 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 180 | U | 180 | 330 | ug/Kg |
| 108-95-2 | Phenol | 82.9 | U | 82.9 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 83.7 | U | 83.7 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 83.5 | U | 83.5 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 80.6 | U | 80.6 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 90.9 | U | 90.9 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 86.9 | U | 86.9 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 79.8 | U | 79.8 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 40.3 | U | 40.3 | 80.0 | ug/Kg |
| 67-72-1 | Hexachloroethane | 83.0 | U | 83.0 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 90.8 | U | 90.8 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 84.6 | U | 84.6 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 94.5 | U | 94.5 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 93.2 | U | 93.2 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 85.8 | U | 85.8 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 75.5 | U | 75.5 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 82.6 | U | 82.6 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 82.6 | U | 82.6 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 83.3 | U | 83.3 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 86.8 | U | 86.8 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 77.5 | U | 77.5 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 82.5 | U | 82.5 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | U | 160 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 71.4 | U | 71.4 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 74.0 | U | 74.0 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 87.4 | U | 87.4 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 83.3 | U | 83.3 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 95.0 | U | 95.0 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 81.7 | U | 81.7 | 170 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | |
| Project: | Perth Amboy | | | Date Received: | |
| Client Sample ID: | PB164071BL | | | SDG No.: | P4258 |
| Lab Sample ID: | PB164071BL | | | 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 |
|---|---|---|---|---|
| BF139920.D | 1 | 10/11/24 09:38 | 10/22/24 11:05 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 86.5 | U | 86.5 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 83.2 | U | 83.2 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 89.2 | U | 89.2 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 81.1 | U | 81.1 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 240 | U | 240 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 84.4 | U | 84.4 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 86.2 | U | 86.2 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 80.1 | U | 80.1 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 85.6 | U | 85.6 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 85.5 | U | 85.5 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 110 | U | 110 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 81.6 | U | 81.6 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 78.9 | U | 78.9 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 85.0 | U | 85.0 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 91.4 | U | 91.4 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 77.3 | U | 77.3 | 330 | ug/Kg |
| 85-01-8 | Phenanthrene | 84.0 | U | 84.0 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 84.4 | U | 84.4 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 80.3 | U | 80.3 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 84.3 | U | 84.3 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 81.7 | U | 81.7 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 83.0 | U | 83.0 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 96.8 | U | 96.8 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 98.6 | U | 98.6 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 80.7 | U | 80.7 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 79.5 | U | 79.5 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 91.0 | U | 91.0 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 81.1 | U | 81.1 | 170 | ug/Kg |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | |
| Project: | Perth Amboy | | | Date Received: | |
| Client Sample ID: | PB164071BL | | | SDG No.: | P4258 |
| Lab Sample ID: | PB164071BL | | | 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 |
|---|---|---|---|---|
| BF139920.D | 1 | 10/11/24 09:38 | 10/22/24 11:05 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 82.6 | U | 82.6 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 93.0 | U | 93.0 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 78.1 | U | 78.1 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 81.2 | U | 81.2 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 80.1 | U | 80.1 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 86.8 | U | 86.8 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 74.7 | U | 74.7 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 135 | | 18 - 112 | 90% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 132 | | 15 - 107 | 88% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 98.9 | | 18 - 107 | 99% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 93.6 | | 20 - 109 | 94% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 150 | | 10 - 116 | 100% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 90.0 | | 10 - 105 | 90% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 150000 | 6.892 | | | |
| 1146-65-2 | Naphthalene-d8 | 594000 | 8.169 | | | |
| 15067-26-2 | Acenaphthene-d10 | 338000 | 9.928 | | | |
| 1517-22-2 | Phenanthrene-d10 | 612000 | 11.41 | | | |
| 1719-03-5 | Chrysene-d12 | 391000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 294000 | 15.527 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 120 | J | | 2.24 | ug/Kg |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 250 | A | | 5.13 | ug/Kg |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | |
| Project: | Perth Amboy | | | Date Received: | |
| Client Sample ID: | PB164071BL | | | SDG No.: | P4258 |
| Lab Sample ID: | PB164071BL | | | 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 |
|---|---|---|---|---|
| BF139920.D | 1 | 10/11/24 09:38 | 10/22/24 11:05 | PB164071 |

| 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: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | PB164071BS | SDG No.: | P4258 |
| Lab Sample ID: | PB164071BS | 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 |
|---|---|---|---|---|
| BF139921.D | 1 | 10/11/24 09:38 | 10/22/24 11:34 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 640 | | 180 | 330 | ug/Kg |
| 108-95-2 | Phenol | 1600 | | 82.8 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1600 | | 83.6 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1700 | | 83.4 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1700 | | 80.5 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1600 | | 90.8 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 1600 | | 86.8 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1600 | | 79.7 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1600 | | 40.3 | 79.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1600 | | 82.9 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1600 | | 90.7 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 1700 | | 84.5 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1900 | | 94.4 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1900 | | 93.1 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1600 | | 85.7 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1700 | | 75.4 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 1600 | | 82.5 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 670 | | 82.5 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1600 | | 83.2 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 1700 | | 86.7 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1600 | | 77.4 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1600 | | 82.4 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 6200 | E | 160 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1700 | | 71.3 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1600 | | 73.9 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1600 | | 87.3 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1600 | | 83.2 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1800 | | 94.9 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1700 | | 81.6 | 170 | ug/Kg |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | |
| Project: | Perth Amboy | | | Date Received: | |
| Client Sample ID: | PB164071BS | | | SDG No.: | P4258 |
| Lab Sample ID: | PB164071BS | | | 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 |
|---|---|---|---|---|
| BF139921.D | 1 | 10/11/24 09:38 | 10/22/24 11:34 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1700 | | 86.4 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1700 | | 83.1 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 1100 | | 89.1 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 1800 | | 81.0 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 4200 | E | 240 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 3600 | E | 120 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1600 | | 84.3 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1900 | | 86.1 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1600 | | 80.0 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1600 | | 85.5 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 1600 | | 85.4 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1700 | | 110 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2400 | | 120 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1700 | | 81.5 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1700 | | 78.8 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1700 | | 84.9 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 1900 | | 91.3 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 3400 | E | 77.2 | 330 | ug/Kg |
| 85-01-8 | Phenanthrene | 1700 | | 83.9 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 1700 | | 84.3 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 1600 | | 80.2 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1600 | | 84.2 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 1600 | | 81.6 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 1900 | | 82.9 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1900 | | 96.7 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1200 | | 98.5 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1800 | | 80.6 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 1800 | | 79.4 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 2000 | | 90.9 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 2000 | | 110 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1700 | | 81.0 | 170 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | |
| Project: | Perth Amboy | | | Date Received: | |
| Client Sample ID: | PB164071BS | | | SDG No.: | P4258 |
| Lab Sample ID: | PB164071BS | | | 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 |
|---|---|---|---|---|
| BF139921.D | 1 | 10/11/24 09:38 | 10/22/24 11:34 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1600 | | 82.5 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1900 | | 92.9 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 2000 | | 78.0 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1900 | | 81.1 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1800 | | 80.0 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1600 | | 86.7 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1300 | | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1800 | | 74.6 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 135 | | 18 - 112 | 90% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 132 | | 15 - 107 | 88% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 98.9 | | 18 - 107 | 99% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 93.3 | | 20 - 109 | 93% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 154 | | 10 - 116 | 103% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 113 | * | 10 - 105 | 113% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 149000 | 6.893 | | | |
| 1146-65-2 | Naphthalene-d8 | 588000 | 8.175 | | | |
| 15067-26-2 | Acenaphthene-d10 | 332000 | 9.934 | | | |
| 1517-22-2 | Phenanthrene-d10 | 575000 | 11.416 | | | |
| 1719-03-5 | Chrysene-d12 | 270000 | 14.057 | | | |
| 1520-96-3 | Perylene-d12 | 309000 | 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-3MS | SDG No.: | P4258 |
| Lab Sample ID: | P4385-06MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 94.1 |
| 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 |
|---|---|---|---|---|
| BF139902.D | 1 | 10/11/24 09:38 | 10/21/24 14:47 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 760 | | 190 | 350 | ug/Kg |
| 108-95-2 | Phenol | 1900 | | 88.1 | 180 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1800 | | 88.9 | 180 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1900 | | 88.7 | 180 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1900 | | 85.6 | 180 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1800 | | 96.6 | 180 | ug/Kg |
| 98-86-2 | Acetophenone | 1800 | | 92.3 | 180 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1800 | | 84.8 | 350 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1800 | | 42.8 | 85.0 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1800 | | 88.2 | 180 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1700 | | 96.5 | 180 | ug/Kg |
| 78-59-1 | Isophorone | 1800 | | 89.9 | 180 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 2100 | | 100 | 180 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 2000 | | 99.0 | 180 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1800 | | 91.1 | 180 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1800 | | 80.2 | 180 | ug/Kg |
| 91-20-3 | Naphthalene | 1700 | | 87.7 | 180 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 370 | | 87.7 | 180 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1700 | | 88.5 | 180 | ug/Kg |
| 105-60-2 | Caprolactam | 1900 | | 92.2 | 350 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1800 | | 82.3 | 180 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1800 | | 87.6 | 180 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 5400 | E | 170 | 350 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1900 | | 75.9 | 180 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | | 78.6 | 180 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1800 | | 92.8 | 180 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1800 | | 88.5 | 180 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 2000 | | 100 | 180 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1900 | | 86.8 | 180 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-3MS | SDG No.: | P4258 |
| Lab Sample ID: | P4385-06MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 94.1 |
| 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 |
|---|---|---|---|---|
| BF139902.D | 1 | 10/11/24 09:38 | 10/21/24 14:47 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1900 | | 91.9 | 180 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1900 | | 88.4 | 180 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 1100 | | 94.8 | 180 | ug/Kg |
| 83-32-9 | Acenaphthene | 2000 | | 86.2 | 180 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 4200 | E | 260 | 350 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 3600 | E | 120 | 350 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1800 | | 89.7 | 180 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 2000 | | 91.6 | 180 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1800 | | 85.1 | 180 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1700 | | 90.9 | 180 | ug/Kg |
| 86-73-7 | Fluorene | 1700 | | 90.8 | 180 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1800 | | 110 | 180 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2400 | | 120 | 350 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1800 | | 86.7 | 180 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1900 | | 83.8 | 180 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1800 | | 90.3 | 180 | ug/Kg |
| 1912-24-9 | Atrazine | 2200 | | 97.1 | 180 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 3400 | E | 82.1 | 350 | ug/Kg |
| 85-01-8 | Phenanthrene | 1800 | | 89.2 | 180 | ug/Kg |
| 120-12-7 | Anthracene | 1800 | | 89.7 | 180 | ug/Kg |
| 86-74-8 | Carbazole | 1700 | | 85.3 | 180 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1800 | | 89.6 | 180 | ug/Kg |
| 206-44-0 | Fluoranthene | 1700 | | 86.8 | 180 | ug/Kg |
| 129-00-0 | Pyrene | 1700 | | 88.2 | 180 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 2200 | | 100 | 180 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 970 | | 100 | 350 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1900 | | 85.7 | 180 | ug/Kg |
| 218-01-9 | Chrysene | 1900 | | 84.5 | 180 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 2500 | | 96.7 | 180 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 2300 | | 120 | 350 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1900 | | 86.2 | 180 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-3MS | SDG No.: | P4258 |
| Lab Sample ID: | P4385-06MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 94.1 |
| 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 |
|---|---|---|---|---|
| BF139902.D | 1 | 10/11/24 09:38 | 10/21/24 14:47 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1700 | | 87.7 | 180 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 2000 | | 98.8 | 180 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1700 | | 83.0 | 180 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1700 | | 86.3 | 180 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1500 | | 85.1 | 180 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1800 | | 92.2 | 180 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1700 | | 120 | 180 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1900 | | 79.4 | 180 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 115 | | 18 - 112 | 77% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 113 | | 15 - 107 | 75% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 86.1 | | 18 - 107 | 86% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 83.1 | | 20 - 109 | 83% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 122 | | 10 - 116 | 81% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 84.2 | | 10 - 105 | 84% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 159000 | 6.892 | | | |
| 1146-65-2 | Naphthalene-d8 | 618000 | 8.175 | | | |
| 15067-26-2 | Acenaphthene-d10 | 335000 | 9.927 | | | |
| 1517-22-2 | Phenanthrene-d10 | 564000 | 11.416 | | | |
| 1719-03-5 | Chrysene-d12 | 295000 | 14.057 | | | |
| 1520-96-3 | Perylene-d12 | 344000 | 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-3MSD | SDG No.: | P4258 |
| Lab Sample ID: | P4385-06MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 94.1 |
| Sample Wt/Vol: | 30.05 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 |
|---|---|---|---|---|
| BF139903.D | 1 | 10/11/24 09:38 | 10/21/24 15:15 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 780 | | 190 | 350 | ug/Kg |
| 108-95-2 | Phenol | 1900 | | 88.0 | 180 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1900 | | 88.8 | 180 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1900 | | 88.6 | 180 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1900 | | 85.5 | 180 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1900 | | 96.4 | 180 | ug/Kg |
| 98-86-2 | Acetophenone | 1700 | | 92.2 | 180 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1800 | | 84.7 | 350 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1800 | | 42.8 | 84.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1800 | | 88.1 | 180 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1800 | | 96.3 | 180 | ug/Kg |
| 78-59-1 | Isophorone | 1800 | | 89.8 | 180 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 2200 | | 100 | 180 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 2100 | | 98.9 | 180 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1800 | | 91.0 | 180 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1800 | | 80.1 | 180 | ug/Kg |
| 91-20-3 | Naphthalene | 1800 | | 87.6 | 180 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 340 | | 87.6 | 180 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1800 | | 88.4 | 180 | ug/Kg |
| 105-60-2 | Caprolactam | 1900 | | 92.1 | 350 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1800 | | 82.2 | 180 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1800 | | 87.5 | 180 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 5600 | E | 170 | 350 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 2000 | | 75.8 | 180 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | | 78.5 | 180 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1800 | | 92.7 | 180 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1800 | | 88.4 | 180 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 2000 | | 100 | 180 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1900 | | 86.7 | 180 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-3MSD | SDG No.: | P4258 |
| Lab Sample ID: | P4385-06MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 94.1 |
| Sample Wt/Vol: | 30.05 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 |
|---|---|---|---|---|
| BF139903.D | 1 | 10/11/24 09:38 | 10/21/24 15:15 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1900 | | 91.8 | 180 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1900 | | 88.3 | 180 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 1100 | | 94.6 | 180 | ug/Kg |
| 83-32-9 | Acenaphthene | 2000 | | 86.0 | 180 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 4400 | E | 260 | 350 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 3700 | E | 120 | 350 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1800 | | 89.5 | 180 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 2000 | | 91.5 | 180 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1800 | | 85.0 | 180 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1700 | | 90.8 | 180 | ug/Kg |
| 86-73-7 | Fluorene | 1700 | | 90.7 | 180 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1800 | | 110 | 180 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2500 | | 120 | 350 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1900 | | 86.6 | 180 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1900 | | 83.7 | 180 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1800 | | 90.2 | 180 | ug/Kg |
| 1912-24-9 | Atrazine | 2200 | | 97.0 | 180 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 3500 | E | 82.0 | 350 | ug/Kg |
| 85-01-8 | Phenanthrene | 1800 | | 89.1 | 180 | ug/Kg |
| 120-12-7 | Anthracene | 1800 | | 89.5 | 180 | ug/Kg |
| 86-74-8 | Carbazole | 1700 | | 85.2 | 180 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1800 | | 89.4 | 180 | ug/Kg |
| 206-44-0 | Fluoranthene | 1700 | | 86.7 | 180 | ug/Kg |
| 129-00-0 | Pyrene | 1700 | | 88.1 | 180 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 2200 | | 100 | 180 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 970 | | 100 | 350 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1900 | | 85.6 | 180 | ug/Kg |
| 218-01-9 | Chrysene | 1900 | | 84.3 | 180 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 2500 | | 96.5 | 180 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 2300 | | 120 | 350 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1900 | | 86.0 | 180 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-3MSD | SDG No.: | P4258 |
| Lab Sample ID: | P4385-06MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 94.1 |
| Sample Wt/Vol: | 30.05 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 |
|---|---|---|---|---|
| BF139903.D | 1 | 10/11/24 09:38 | 10/21/24 15:15 | PB164071 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1800 | | 87.6 | 180 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 2000 | | 98.7 | 180 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1600 | | 82.9 | 180 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1600 | | 86.1 | 180 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1400 | | 85.0 | 180 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1800 | | 92.1 | 180 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1700 | | 120 | 180 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1900 | | 79.3 | 180 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 117 | | 18 - 112 | 78% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 116 | | 15 - 107 | 77% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 87.2 | | 18 - 107 | 87% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 83.0 | | 20 - 109 | 83% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 123 | | 10 - 116 | 82% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 82.8 | | 10 - 105 | 83% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 163000 | 6.893 | | | |
| 1146-65-2 | Naphthalene-d8 | 638000 | 8.175 | | | |
| 15067-26-2 | Acenaphthene-d10 | 344000 | 9.928 | | | |
| 1517-22-2 | Phenanthrene-d10 | 571000 | 11.416 | | | |
| 1719-03-5 | Chrysene-d12 | 299000 | 14.057 | | | |
| 1520-96-3 | Perylene-d12 | 341000 | 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-BF100124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 02 04:58:47 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139584.D 5 =BF139585.D 10 =BF139586.D 20 =BF139587.D 40 =BF139588.D 50 =BF139589.D 60 =BF139590.D 80 =BF1395
91.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.523 | 0.523 | 0.509 | 0.485 | 0.488 | 0.490 | 0.474 | 0.499 | 3.89 |
| 3) | | Pyridine | | 1.305 | 1.304 | 1.277 | 1.163 | 1.155 | 1.177 | 1.112 | 1.213 | 6.59 |
| 4) | | n-Nitrosodimet... | | 0.820 | 0.790 | 0.797 | 0.783 | 0.784 | 0.802 | 0.782 | 0.794 | 1.72 |
| 5) | S | 2-Fluorophenol | | 1.285 | 1.218 | 1.191 | 1.113 | 1.096 | 1.106 | 1.068 | 1.154 | 6.84 |
| 6) | | Aniline | | 1.562 | 1.492 | 1.462 | 1.276 | 1.243 | 1.226 | | 1.377 | 10.56 |
| 7) | S | Phenol-d6 | | 1.719 | 1.638 | 1.599 | 1.490 | 1.482 | 1.490 | 1.445 | 1.552 | 6.54 |
| 8) | | 2-Chlorophenol | | 1.326 | 1.337 | 1.289 | 1.191 | 1.180 | 1.192 | 1.139 | 1.236 | 6.40 |
| 9) | | Benzaldehyde | | 1.008 | 1.014 | 0.926 | 0.787 | 0.727 | 0.680 | 0.612 | 0.822 | 19.68 |
| 10) | C | Phenol | | 1.798 | 1.748 | 1.691 | 1.602 | 1.548 | 1.570 | 1.464 | 1.632 | 7.27 |
| 11) | | bis(2-Chloroet... | | 1.356 | 1.331 | 1.264 | 1.258 | 1.236 | 1.261 | 1.595 | 1.329 | 9.42 |
| 12) | | 1,3-Dichlorobe... | | 1.527 | 1.477 | 1.450 | 1.346 | 1.330 | 1.339 | 1.266 | 1.391 | 6.78 |
| 13) | C | 1,4-Dichlorobe... | | 1.592 | 1.510 | 1.451 | 1.348 | 1.341 | 1.348 | 1.271 | 1.409 | 8.01 |
| 14) | | 1,2-Dichlorobe... | | 1.469 | 1.429 | 1.393 | 1.278 | 1.256 | 1.241 | 1.175 | 1.320 | 8.33 |
| 15) | | Benzyl Alcohol | | 1.239 | 1.244 | 1.233 | 1.170 | 1.144 | 1.166 | 1.103 | 1.186 | 4.55 |
| 16) | | 2,2'-oxybis(1-... | | 2.573 | 2.446 | 2.391 | 2.225 | 2.186 | 2.202 | 2.075 | 2.300 | 7.60 |
| 17) | | 2-Methylphenol | | 1.105 | 1.073 | 1.068 | 1.010 | 0.992 | 1.005 | 0.972 | 1.032 | 4.80 |
| 18) | | Hexachloroethane | | 0.553 | 0.548 | 0.550 | 0.511 | 0.511 | 0.516 | 0.489 | 0.525 | 4.73 |
| 19) | P | n-Nitroso-di-n... | 1.024 | 1.073 | 1.066 | 1.030 | 0.959 | 0.932 | 0.971 | 0.926 | 0.998 | 5.83 |
| 20) | | 3+4-Methylphenols | | 1.439 | 1.405 | 1.363 | 1.257 | 1.226 | 1.229 | 1.154 | 1.296 | 8.20 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.530 | 0.505 | 0.494 | 0.451 | 0.447 | 0.460 | 0.436 | 0.475 | 7.36 |
| 23) | S | Nitrobenzene-d5 | | 0.420 | 0.411 | 0.406 | 0.382 | 0.382 | 0.391 | 0.373 | 0.395 | 4.43 |
| 24) | | Nitrobenzene | | 0.427 | 0.424 | 0.421 | 0.397 | 0.391 | 0.408 | 0.396 | 0.409 | 3.63 |
| 25) | | Isophorone | | 0.766 | 0.728 | 0.713 | 0.675 | 0.662 | 0.695 | 0.672 | 0.702 | 5.25 |
| 26) | C | 2-Nitrophenol | | 0.174 | 0.172 | 0.181 | 0.178 | 0.175 | 0.179 | 0.172 | 0.176 | 1.99 |
| 27) | | 2,4-Dimethylph... | | 0.228 | 0.224 | 0.218 | 0.206 | 0.209 | 0.216 | 0.206 | 0.215 | 4.10 |
| 28) | | bis(2-Chloroet... | | 0.459 | 0.438 | 0.433 | 0.403 | 0.401 | 0.411 | 0.389 | 0.419 | 5.92 |
| 29) | C | 2,4-Dichloroph... | | 0.300 | 0.295 | 0.293 | 0.275 | 0.266 | 0.276 | 0.261 | 0.281 | 5.42 |
| 30) | | 1,2,4-Trichlor... | | 0.344 | 0.336 | 0.329 | 0.307 | 0.301 | 0.311 | 0.295 | 0.318 | 5.92 |
| 31) | | Naphthalene | | 1.144 | 1.090 | 1.074 | 0.982 | 0.962 | 0.983 | 0.923 | 1.023 | 7.84 |
| 32) | | Benzoic acid | | 0.159 | 0.187 | 0.220 | 0.224 | 0.227 | 0.243 | 0.240 | 0.214 | 14.27 |
| 33) | | 4-Chloroaniline | | 0.382 | 0.367 | 0.361 | 0.340 | 0.330 | 0.333 | 0.310 | 0.346 | 7.21 |
| 34) | C | Hexachlorobuta... | | 0.223 | 0.216 | 0.216 | 0.197 | 0.198 | 0.201 | 0.189 | 0.205 | 6.11 |
| 35) | | Caprolactam | | 0.098 | 0.099 | 0.093 | 0.088 | 0.088 | 0.092 | 0.086 | 0.092 | 5.47 |
| 36) | C | 4-Chloro-3-met... | | 0.345 | 0.335 | 0.331 | 0.303 | 0.300 | 0.312 | 0.299 | 0.318 | 5.88 |
| 37) | | 2-Methylnaphth... | | 0.764 | 0.718 | 0.694 | 0.639 | 0.620 | 0.633 | 0.594 | 0.666 | 9.12 |
| 38) | | 1-Methylnaphth... | | 0.739 | 0.708 | 0.677 | 0.624 | 0.610 | 0.617 | 0.581 | 0.651 | 8.90 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF100124.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.601 | 0.594 | 0.586 | 0.536 | 0.528 | 0.536 | 0.507 | 0.555 | 6.70 |
| 41) | P | Hexachlorocycl... | 0.120 | 0.148 | 0.173 | 0.184 | 0.191 | 0.193 | 0.184 | 0.170 | 15.84 |
| 42) | S | 2,4,6-Tribromo... | 0.212 | 0.208 | 0.200 | 0.187 | 0.182 | 0.186 | 0.177 | 0.193 | 7.11 |
| 43) | C | 2,4,6-Trichlor... | 0.395 | 0.383 | 0.391 | 0.366 | 0.362 | 0.371 | 0.352 | 0.374 | 4.27 |
| 44) | | 2,4,5-Trichlor... | 0.433 | 0.429 | 0.412 | 0.390 | 0.389 | 0.393 | 0.378 | 0.404 | 5.28 |
| 45) | S | 2-Fluorobiphenyl | 1.547 | 1.443 | 1.373 | 1.228 | 1.203 | 1.194 | 1.131 | 1.303 | 11.78 |
| 46) | | 1,1'-Biphenyl | 1.680 | 1.619 | 1.556 | 1.416 | 1.400 | 1.408 | 1.334 | 1.488 | 8.73 |
| 47) | | 2-Chloronaphth... | 1.225 | 1.193 | 1.156 | 1.074 | 1.067 | 1.069 | 1.023 | 1.115 | 6.80 |
| 48) | | 2-Nitroaniline | 0.401 | 0.400 | 0.409 | 0.394 | 0.397 | 0.407 | 0.395 | 0.400 | 1.44 |
| 49) | | Acenaphthylene | 1.889 | 1.832 | 1.784 | 1.632 | 1.615 | 1.609 | 1.510 | 1.696 | 8.22 |
| 50) | | Dimethylphthalate | 1.471 | 1.387 | 1.342 | 1.249 | 1.249 | 1.251 | 1.216 | 1.309 | 7.15 |
| 51) | | 2,6-Dinitrotol... | 0.313 | 0.310 | 0.304 | 0.288 | 0.285 | 0.293 | 0.277 | 0.296 | 4.56 |
| 52) | C | Acenaphthene | 1.279 | 1.237 | 1.207 | 1.126 | 1.115 | 1.122 | 1.064 | 1.164 | 6.67 |
| 53) | | 3-Nitroaniline | 0.326 | 0.319 | 0.314 | 0.293 | 0.291 | 0.293 | 0.278 | 0.302 | 5.84 |
| 54) | P | 2,4-Dinitrophenol | 0.122 | 0.136 | 0.164 | 0.164 | 0.176 | 0.178 | 0.173 | 0.159 | 13.53 |
| 55) | | Dibenzofuran | 1.882 | 1.800 | 1.713 | 1.553 | 1.526 | 1.520 | 1.418 | 1.630 | 10.42 |
| 56) | P | 4-Nitrophenol | 0.230 | 0.233 | 0.237 | 0.228 | 0.231 | 0.236 | 0.218 | 0.230 | 2.71 |
| 57) | | 2,4-Dinitrotol... | 0.408 | 0.416 | 0.406 | 0.380 | 0.377 | 0.372 | 0.348 | 0.387 | 6.27 |
| 58) | | Fluorene | 1.524 | 1.436 | 1.358 | 1.222 | 1.212 | 1.206 | 1.132 | 1.298 | 11.01 |
| 59) | | 2,3,4,6-Tetrac... | 0.358 | 0.338 | 0.339 | 0.315 | 0.314 | 0.320 | 0.299 | 0.326 | 6.12 |
| 60) | | Diethylphthalate | 1.530 | 1.451 | 1.397 | 1.289 | 1.290 | 1.293 | 1.216 | 1.352 | 8.18 |
| 61) | | 4-Chlorophenyl... | 0.750 | 0.728 | 0.689 | 0.607 | 0.604 | 0.605 | 0.564 | 0.650 | 11.10 |
| 62) | | 4-Nitroaniline | 0.340 | 0.326 | 0.323 | 0.298 | 0.298 | 0.299 | 0.280 | 0.309 | 6.77 |
| 63) | | Azobenzene | 1.509 | 1.451 | 1.415 | 1.313 | 1.296 | 1.292 | 1.243 | 1.360 | 7.23 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | 0.095 | 0.105 | 0.114 | 0.120 | 0.116 | 0.123 | 0.117 | 0.113 | 8.71 |
| 66) | c | n-Nitrosodiphe... | 0.653 | 0.623 | 0.609 | 0.568 | 0.559 | 0.569 | 0.546 | 0.590 | 6.66 |
| 67) | | 4-Bromophenyl-... | 0.225 | 0.219 | 0.211 | 0.198 | 0.193 | 0.199 | 0.191 | 0.205 | 6.48 |
| 68) | | Hexachlorobenzene | 0.251 | 0.238 | 0.233 | 0.220 | 0.215 | 0.224 | 0.212 | 0.228 | 6.09 |
| 69) | | Atrazine | 0.189 | 0.185 | 0.164 | 0.132 | 0.121 | | | 0.158 | 19.43 |
| 70) | C | Pentachlorophenol | 0.127 | 0.132 | 0.139 | 0.140 | 0.135 | 0.142 | 0.134 | 0.135 | 3.86 |
| 71) | | Phenanthrene | 1.071 | 1.024 | 0.976 | 0.904 | 0.883 | 0.904 | 0.838 | 0.943 | 8.85 |
| 72) | | Anthracene | 1.078 | 0.987 | 0.978 | 0.896 | 0.875 | 0.884 | 0.833 | 0.933 | 9.09 |
| 73) | | Carbazole | 1.013 | 0.968 | 0.946 | 0.867 | 0.852 | 0.852 | 0.774 | 0.896 | 9.22 |
| 74) | | Di-n-butylphth... | 1.194 | 1.155 | 1.143 | 1.069 | 1.042 | 1.051 | 0.973 | 1.090 | 7.09 |
| 75) | C | Fluoranthene | 1.217 | 1.139 | 1.111 | 0.993 | 0.958 | 0.938 | 0.861 | 1.031 | 12.33 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.478 | 0.458 | 0.335 | 0.346 | 0.240 | 0.244 | 0.369 | 0.353 | 26.36 |
| 78) | | Pyrene | 1.799 | 1.737 | 1.801 | 1.817 | 1.746 | 1.869 | 1.753 | 1.789 | 2.64 |
| 79) | S | Terphenyl-d14 | 1.296 | 1.236 | 1.228 | 1.209 | 1.176 | 1.241 | 1.147 | 1.219 | 3.96 |
| 80) | | Butylbenzylpht... | 0.624 | 0.609 | 0.645 | 0.649 | 0.646 | 0.670 | 0.634 | 0.640 | 3.08 |
| 81) | | Benzo(a)anthra... | 1.476 | 1.348 | 1.331 | 1.252 | 1.274 | 1.300 | 1.224 | 1.315 | 6.33 |
| 82) | | 3,3'-Dichlorob... | 0.440 | 0.421 | 0.414 | 0.395 | 0.370 | 0.393 | 0.383 | 0.402 | 5.98 |
| 83) | | Chrysene | 1.330 | 1.242 | 1.254 | 1.189 | 1.116 | 1.168 | 1.117 | 1.202 | 6.49 |
| 84) | | Bis(2-ethylhex... | 0.748 | 0.746 | 0.796 | 0.816 | 0.813 | 0.849 | 0.823 | 0.799 | 4.84 |
| 85) | c | Di-n-octyl pht... | 1.038 | 1.032 | 1.127 | 1.189 | 1.201 | 1.309 | 1.319 | 1.174 | 9.89 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF100124.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.021 | 1.065 | 1.202 | 1.210 | 1.220 | 1.269 | 1.253 | 1.177 | 8.12 |
| 88) | | Benzo(b)fluora... | 1.541 | 1.415 | 1.347 | 1.153 | 1.261 | 1.206 | 1.130 | 1.293 | 11.55 |
| 89) | | Benzo(k)fluora... | 1.122 | 1.177 | 1.191 | 1.126 | 0.998 | 1.039 | 1.025 | 1.097 | 6.97 |
| 90) | C | Benzo(a)pyrene | 1.076 | 1.060 | 1.042 | 0.992 | 0.996 | 0.999 | 0.973 | 1.020 | 3.84 |
| 91) | | Dibenzo(a,h)an... | 0.850 | 0.898 | 0.988 | 1.008 | 1.014 | 1.050 | 1.027 | 0.976 | 7.56 |
| 92) | | Benzo(g,h,i)pe... | 0.833 | 0.865 | 0.993 | 1.020 | 1.015 | 1.066 | 1.062 | 0.979 | 9.50 |

(#) = Out of Range

# Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF1398
51.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.651 | 0.625 | 0.603 | 0.591 | 0.571 | 0.581 | 0.548 | 0.596 | 5.74 |
| 3) | | Pyridine | | 1.622 | 1.570 | 1.522 | 1.504 | 1.386 | 1.406 | 1.326 | 1.476 | 7.26 |
| 4) | | n-Nitrosodimet... | | 0.815 | 0.800 | 0.799 | 0.806 | 0.782 | 0.794 | 0.757 | 0.793 | 2.39 |
| 5) | S | 2-Fluorophenol | | 1.465 | 1.398 | 1.331 | 1.278 | 1.179 | 1.186 | 1.106 | 1.278 | 10.10 |
| 6) | | Aniline | | 1.673 | 1.649 | 1.618 | 1.582 | 1.471 | 1.479 | 1.324 | 1.542 | 8.05 |
| 7) | S | Phenol-d6 | | 1.900 | 1.818 | 1.709 | 1.647 | 1.538 | 1.539 | 1.432 | 1.655 | 10.06 |
| 8) | | 2-Chlorophenol | | 1.503 | 1.422 | 1.358 | 1.310 | 1.212 | 1.221 | 1.116 | 1.306 | 10.24 |
| 9) | | Benzaldehyde | | | 1.137 | 1.042 | 0.940 | 0.873 | 0.853 | 0.740 | 0.931 | 15.22 |
| 10) | C | Phenol | | 1.952 | 1.832 | 1.760 | 1.712 | 1.583 | 1.601 | 1.502 | 1.706 | 9.19 |
| 11) | | bis(2-Chloroet... | | 1.470 | 1.423 | 1.359 | 1.294 | 1.251 | 1.249 | 1.183 | 1.319 | 7.82 |
| 12) | | 1,3-Dichlorobe... | | 1.718 | 1.656 | 1.544 | 1.499 | 1.392 | 1.391 | 1.294 | 1.499 | 10.19 |
| 13) | C | 1,4-Dichlorobe... | | 1.723 | 1.641 | 1.558 | 1.487 | 1.392 | 1.391 | 1.291 | 1.498 | 10.19 |
| 14) | | 1,2-Dichlorobe... | | 1.660 | 1.579 | 1.478 | 1.379 | 1.273 | 1.267 | 1.149 | 1.398 | 13.15 |
| 15) | | Benzyl Alcohol | | 1.355 | 1.299 | 1.257 | 1.213 | 1.154 | 1.146 | 1.071 | 1.214 | 8.07 |
| 16) | | 2,2'-oxybis(1-... | | 2.524 | 2.409 | 2.353 | 2.255 | 2.117 | 2.115 | 1.964 | 2.248 | 8.69 |
| 17) | | 2-Methylphenol | | 1.264 | 1.164 | 1.134 | 1.114 | 1.053 | 1.063 | 1.004 | 1.114 | 7.69 |
| 18) | | Hexachloroethane | | 0.583 | 0.571 | 0.549 | 0.541 | 0.507 | 0.511 | 0.477 | 0.534 | 7.06 |
| 19) | P | n-Nitroso-di-n... | 1.105 | 1.141 | 1.066 | 1.025 | 0.974 | 0.921 | 0.927 | 0.869 | 1.004 | 9.63 |
| 20) | | 3+4-Methylphenols | | 1.678 | 1.573 | 1.520 | 1.418 | 1.309 | 1.300 | 1.173 | 1.424 | 12.41 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.578 | 0.533 | 0.516 | 0.481 | 0.452 | 0.454 | 0.414 | 0.490 | 11.43 |
| 23) | S | Nitrobenzene-d5 | | 0.365 | 0.365 | 0.372 | 0.371 | 0.354 | 0.357 | 0.342 | 0.361 | 2.92 |
| 24) | | Nitrobenzene | | 0.417 | 0.402 | 0.408 | 0.403 | 0.383 | 0.388 | 0.370 | 0.396 | 4.10 |
| 25) | | Isophorone | | 0.755 | 0.709 | 0.702 | 0.679 | 0.652 | 0.660 | 0.637 | 0.685 | 5.90 |
| 26) | C | 2-Nitrophenol | | 0.124 | 0.137 | 0.150 | 0.157 | 0.158 | 0.161 | 0.157 | 0.149 | 9.22 |
| 27) | | 2,4-Dimethylph... | | 0.285 | 0.259 | 0.256 | 0.248 | 0.237 | 0.234 | 0.223 | 0.249 | 8.07 |
| 28) | | bis(2-Chloroet... | | 0.468 | 0.440 | 0.432 | 0.412 | 0.394 | 0.390 | 0.369 | 0.415 | 8.22 |
| 29) | C | 2,4-Dichloroph... | | 0.308 | 0.297 | 0.293 | 0.283 | 0.272 | 0.274 | 0.257 | 0.283 | 6.17 |
| 30) | | 1,2,4-Trichlor... | | 0.351 | 0.331 | 0.325 | 0.315 | 0.298 | 0.298 | 0.279 | 0.314 | 7.68 |
| 31) | | Naphthalene | | 1.209 | 1.121 | 1.091 | 1.023 | 0.958 | 0.944 | 0.875 | 1.031 | 11.23 |
| 32) | | Benzoic acid | | | 0.175 | 0.207 | 0.220 | 0.231 | 0.235 | 0.235 | 0.217 | 10.69 |
| 33) | | 4-Chloroaniline | | 0.397 | 0.382 | 0.368 | 0.351 | 0.332 | 0.326 | 0.306 | 0.352 | 9.26 |
| 34) | C | Hexachlorobuta... | | 0.224 | 0.206 | 0.203 | 0.197 | 0.185 | 0.187 | 0.177 | 0.197 | 7.96 |
| 35) | | Caprolactam | | 0.092 | 0.092 | 0.092 | 0.092 | 0.088 | 0.088 | 0.086 | 0.090 | 2.85 |
| 36) | C | 4-Chloro-3-met... | | 0.341 | 0.328 | 0.324 | 0.315 | 0.299 | 0.303 | 0.287 | 0.314 | 6.03 |
| 37) | | 2-Methylnaphth... | | 0.740 | 0.689 | 0.666 | 0.621 | 0.587 | 0.583 | 0.537 | 0.632 | 11.11 |
| 38) | | 1-Methylnaphth... | | 0.726 | 0.683 | 0.655 | 0.612 | 0.569 | 0.567 | 0.526 | 0.620 | 11.55 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.609 | 0.579 | 0.562 | 0.537 | 0.512 | 0.506 | 0.472 | 0.540 | 8.72 |
| 41) | P | Hexachlorocycl... | 0.185 | 0.193 | 0.198 | 0.198 | 0.186 | 0.185 | 0.169 | 0.188 | 5.28 |
| 42) | S | 2,4,6-Tribromo... | 0.201 | 0.196 | 0.193 | 0.188 | 0.179 | 0.180 | 0.173 | 0.187 | 5.47 |
| 43) | C | 2,4,6-Trichlor... | 0.405 | 0.382 | 0.400 | 0.387 | 0.363 | 0.383 | 0.354 | 0.382 | 4.80 |
| 44) | | 2,4,5-Trichlor... | 0.426 | 0.425 | 0.398 | 0.401 | 0.381 | 0.369 | 0.359 | 0.394 | 6.58 |
| 45) | S | 2-Fluorobiphenyl | 1.512 | 1.396 | 1.280 | 1.162 | 1.088 | 1.060 | 0.973 | 1.210 | 16.05 |
| 46) | | 1,1'-Biphenyl | 1.640 | 1.536 | 1.483 | 1.379 | 1.285 | 1.262 | 1.161 | 1.392 | 12.18 |
| 47) | | 2-Chloronaphth... | 1.288 | 1.225 | 1.164 | 1.111 | 1.048 | 1.040 | 0.973 | 1.121 | 9.95 |
| 48) | | 2-Nitroaniline | 0.299 | 0.318 | 0.353 | 0.365 | 0.354 | 0.362 | 0.349 | 0.343 | 7.20 |
| 49) | | Acenaphthylene | 1.854 | 1.756 | 1.717 | 1.615 | 1.507 | 1.505 | 1.394 | 1.621 | 10.06 |
| 50) | | Dimethylphthalate | 1.410 | 1.344 | 1.283 | 1.237 | 1.172 | 1.163 | 1.110 | 1.246 | 8.60 |
| 51) | | 2,6-Dinitrotol... | 0.256 | 0.266 | 0.278 | 0.280 | 0.273 | 0.274 | 0.260 | 0.270 | 3.41 |
| 52) | C | Acenaphthene | 1.200 | 1.136 | 1.089 | 1.044 | 0.977 | 0.983 | 0.913 | 1.049 | 9.55 |
| 53) | | 3-Nitroaniline | 0.270 | 0.275 | 0.296 | 0.292 | 0.276 | 0.282 | 0.256 | 0.278 | 4.84 |
| 54) | P | 2,4-Dinitrophenol | | 0.056 | 0.077 | 0.101 | 0.101 | 0.113 | 0.112 | 0.093 | 23.89 |
| 55) | | Dibenzofuran | 1.767 | 1.659 | 1.579 | 1.486 | 1.389 | 1.375 | 1.278 | 1.505 | 11.52 |
| 56) | P | 4-Nitrophenol | 0.187 | 0.207 | 0.225 | 0.232 | 0.219 | 0.220 | 0.208 | 0.214 | 6.84 |
| 57) | | 2,4-Dinitrotol... | 0.280 | 0.314 | 0.337 | 0.356 | 0.344 | 0.351 | 0.338 | 0.332 | 7.94 |
| 58) | | Fluorene | 1.409 | 1.309 | 1.201 | 1.110 | 1.029 | 1.021 | 0.944 | 1.146 | 14.68 |
| 59) | | 2,3,4,6-Tetrac... | 0.334 | 0.322 | 0.326 | 0.310 | 0.296 | 0.293 | 0.281 | 0.309 | 6.33 |
| 60) | | Diethylphthalate | 1.366 | 1.308 | 1.267 | 1.214 | 1.165 | 1.161 | 1.080 | 1.223 | 7.99 |
| 61) | | 4-Chlorophenyl... | 0.698 | 0.638 | 0.617 | 0.569 | 0.526 | 0.520 | 0.484 | 0.579 | 13.14 |
| 62) | | 4-Nitroaniline | 0.249 | 0.259 | 0.270 | 0.275 | 0.263 | 0.269 | 0.254 | 0.263 | 3.65 |
| 63) | | Azobenzene | 1.459 | 1.385 | 1.355 | 1.306 | 1.216 | 1.212 | 1.143 | 1.297 | 8.62 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.055 | 0.072 | 0.087 | 0.090 | 0.092 | 0.093 | 0.082 | 18.60 |
| 66) | c | n-Nitrosodiphe... | 0.672 | 0.641 | 0.621 | 0.595 | 0.568 | 0.561 | 0.533 | 0.599 | 8.14 |
| 67) | | 4-Bromophenyl-... | 0.230 | 0.217 | 0.211 | 0.202 | 0.197 | 0.196 | 0.189 | 0.206 | 6.98 |
| 68) | | Hexachlorobenzene | 0.258 | 0.245 | 0.237 | 0.231 | 0.217 | 0.221 | 0.212 | 0.232 | 7.20 |
| 69) | | Atrazine | 0.189 | 0.175 | 0.156 | 0.175 | 0.135 | 0.153 | 0.151 | 0.162 | 11.36 |
| 70) | C | Pentachlorophenol | 0.118 | 0.137 | 0.148 | 0.152 | 0.145 | 0.144 | 0.140 | 0.141 | 8.04 |
| 71) | | Phenanthrene | 1.121 | 1.035 | 0.994 | 0.933 | 0.863 | 0.860 | 0.807 | 0.945 | 11.79 |
| 72) | | Anthracene | 1.082 | 1.014 | 0.972 | 0.913 | 0.851 | 0.833 | 0.787 | 0.922 | 11.53 |
| 73) | | Carbazole | 1.002 | 0.964 | 0.923 | 0.846 | 0.776 | 0.772 | 0.717 | 0.857 | 12.64 |
| 74) | | Di-n-butylphth... | 1.104 | 1.071 | 1.062 | 1.014 | 0.923 | 0.909 | 0.850 | 0.990 | 9.77 |
| 75) | C | Fluoranthene | 1.149 | 1.108 | 1.036 | 0.943 | 0.842 | 0.835 | 0.772 | 0.955 | 15.34 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.457 | 0.461 | 0.293 | 0.366 | 0.276 | 0.203 | 0.246 | 0.329 | 30.86 |
| 78) | | Pyrene | 1.892 | 1.828 | 1.900 | 1.805 | 1.685 | 1.649 | 1.496 | 1.751 | 8.43 |
| 79) | S | Terphenyl-d14 | 1.381 | 1.335 | 1.340 | 1.244 | 1.154 | 1.121 | 1.018 | 1.227 | 10.96 |
| 80) | | Butylbenzylpht... | 0.490 | 0.513 | 0.536 | 0.555 | 0.535 | 0.531 | 0.514 | 0.525 | 3.99 |
| 81) | | Benzo(a)anthra... | 1.425 | 1.355 | 1.329 | 1.331 | 1.267 | 1.237 | 1.169 | 1.302 | 6.48 |
| 82) | | 3,3'-Dichlorob... | 0.368 | 0.372 | 0.390 | 0.387 | 0.374 | 0.382 | 0.384 | 0.380 | 2.15 |
| 83) | | Chrysene | 1.325 | 1.244 | 1.234 | 1.167 | 1.134 | 1.151 | 1.101 | 1.194 | 6.52 |
| 84) | | Bis(2-ethylhex... | 0.520 | 0.539 | 0.577 | 0.626 | 0.620 | 0.626 | 0.614 | 0.589 | 7.48 |
| 85) | c | Di-n-octyl pht... | | 0.786 | 0.930 | 1.135 | 1.182 | 1.207 | 1.186 | 1.071 | 16.14 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.209 | 1.261 | 1.307 | 1.352 | 1.299 | 1.326 | 1.253 | 1.287 | 3.77 |
| 88) | | Benzo(b)fluora... | 1.317 | 1.240 | 1.319 | 1.196 | 1.105 | 1.239 | 1.111 | 1.218 | 7.15 |
| 89) | | Benzo(k)fluora... | 1.213 | 1.177 | 0.992 | 1.066 | 1.030 | 0.929 | 0.947 | 1.051 | 10.42 |
| 90) | C | Benzo(a)pyrene | 1.030 | 1.024 | 1.018 | 1.025 | 0.974 | 0.999 | 0.947 | 1.002 | 3.12 |
| 91) | | Dibenzo(a,h)an... | 1.021 | 1.064 | 1.103 | 1.120 | 1.083 | 1.085 | 1.036 | 1.073 | 3.31 |
| 92) | | Benzo(g,h,i)pe... | 1.030 | 1.046 | 1.090 | 1.128 | 1.081 | 1.095 | 1.035 | 1.072 | 3.37 |

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: BNA_F Calibration Date/Time: 10/14/2024 14:30

Lab File ID: BF139787.D Init. Calib. Date(s): 10/01/2024 10/01/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 14:05 17:22

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.154 | 1.129 | | -2.2 | |
| Benzaldehyde | 0.822 | 0.818 | | -0.5 | |
| Phenol-d6 | 1.552 | 1.512 | | -2.6 | |
| Phenol | 1.632 | 1.584 | | -2.9 | 20.0 |
| bis(2-Chloroethyl)ether | 1.329 | 1.241 | | -6.6 | |
| 2-Chlorophenol | 1.236 | 1.213 | | -1.9 | |
| 2-Methylphenol | 1.032 | 0.995 | | -3.6 | |
| 2,2-oxybis(1-Chloropropane) | 2.300 | 2.102 | | -8.6 | |
| Acetophenone | 0.475 | 0.458 | | -3.6 | |
| 3+4-Methylphenols | 1.296 | 1.233 | | -4.9 | |
| n-Nitroso-di-n-propylamine | 0.998 | 0.906 | 0.050 | -9.2 | |
| Nitrobenzene-d5 | 0.395 | 0.376 | | -4.8 | |
| Hexachloroethane | 0.525 | 0.499 | | -5.0 | |
| Nitrobenzene | 0.409 | 0.389 | | -4.9 | |
| Isophorone | 0.702 | 0.658 | | -6.3 | |
| 2-Nitrophenol | 0.176 | 0.176 | | 0.0 | 20.0 |
| 2,4-Dimethylphenol | 0.215 | 0.211 | | -1.9 | |
| bis(2-Chloroethoxy)methane | 0.419 | 0.405 | | -3.3 | |
| 2,4-Dichlorophenol | 0.281 | 0.276 | | -1.8 | 20.0 |
| Naphthalene | 1.023 | 1.003 | | -2.0 | |
| 4-Chloroaniline | 0.346 | 0.311 | | -10.1 | |
| Hexachlorobutadiene | 0.205 | 0.199 | | -2.9 | 20.0 |
| Caprolactam | 0.092 | 0.078 | | -15.2 | |
| 4-Chloro-3-methylphenol | 0.318 | 0.290 | | -8.8 | 20.0 |
| 2-Methylnaphthalene | 0.666 | 0.635 | | -4.7 | |
| Hexachlorocyclopentadiene | 0.170 | 0.203 | 0.050 | 19.4 | |
| 2,4,6-Trichlorophenol | 0.374 | 0.355 | | -5.1 | 20.0 |
| 2-Fluorobiphenyl | 1.303 | 1.281 | | -1.7 | |
| 2,4,5-Trichlorophenol | 0.404 | 0.386 | | -4.5 | |
| 1,1-Biphenyl | 1.488 | 1.459 | | -1.9 | |
| 2-Chloronaphthalene | 1.115 | 1.121 | | 0.5 | |
| 2-Nitroaniline | 0.400 | 0.369 | | -7.8 | |
| Dimethylphthalate | 1.309 | 1.211 | | -7.5 | |
| Acenaphthylene | 1.696 | 1.637 | | -3.5 | |
| 2,6-Dinitrotoluene | 0.296 | 0.276 | | -6.8 | |
| 3-Nitroaniline | 0.302 | 0.252 | | -16.6 | |
| Acenaphthene | 1.164 | 1.123 | | -3.5 | 20.0 |
| 2,4-Dinitrophenol | 0.159 | 0.150 | 0.050 | -5.7 | |
| 4-Nitrophenol | 0.230 | 0.236 | 0.050 | 2.6 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: BNA_F Calibration Date/Time: 10/14/2024 14:30

Lab File ID: BF139787.D Init. Calib. Date(s): 10/01/2024 10/01/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 14:05 17:22

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.630 | 1.540 | | -5.5 | |
| 2,4-Dinitrotoluene | 0.387 | 0.345 | | -10.9 | |
| Diethylphthalate | 1.352 | 1.182 | | -12.6 | |
| 4-Chlorophenyl-phenylether | 0.650 | 0.608 | | -6.5 | |
| Fluorene | 1.298 | 1.210 | | -6.8 | |
| 4-Nitroaniline | 0.309 | 0.241 | | -22.0 | |
| 4,6-Dinitro-2-methylphenol | 0.113 | 0.104 | | -8.0 | |
| n-Nitrosodiphenylamine | 0.590 | 0.617 | | 4.6 | 20.0 |
| 2,4,6-Tribromophenol | 0.193 | 0.161 | | -16.6 | |
| 4-Bromophenyl-phenylether | 0.205 | 0.214 | | 4.4 | |
| Hexachlorobenzene | 0.228 | 0.229 | | 0.4 | |
| Atrazine | 0.158 | 0.140 | | -11.4 | |
| Pentachlorophenol | 0.135 | 0.137 | | 1.5 | 20.0 |
| Phenanthrene | 0.943 | 0.917 | | -2.8 | |
| Anthracene | 0.933 | 0.894 | | -4.2 | |
| Carbazole | 0.896 | 0.791 | | -11.7 | |
| Di-n-butylphthalate | 1.090 | 0.971 | | -10.9 | |
| Fluoranthene | 1.031 | 0.870 | | -15.6 | 20.0 |
| Pyrene | 1.789 | 1.797 | | 0.4 | |
| Terphenyl-d14 | 1.219 | 1.193 | | -2.1 | |
| Butylbenzylphthalate | 0.640 | 0.651 | | 1.7 | |
| 3,3-Dichlorobenzidine | 0.402 | 0.421 | | 4.7 | |
| Benzo(a)anthracene | 1.315 | 1.280 | | -2.7 | |
| Chrysene | 1.202 | 1.167 | | -2.9 | |
| Bis(2-ethylhexyl)phthalate | 0.799 | 0.898 | | 12.4 | |
| Di-n-octyl phthalate | 1.174 | 1.541 | | 31.3 | 20.0 |
| Benzo(b)fluoranthene | 1.293 | 1.106 | | -14.5 | |
| Benzo(k)fluoranthene | 1.097 | 1.001 | | -8.8 | |
| Benzo(a)pyrene | 1.020 | 0.920 | | -9.8 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.177 | 1.084 | | -7.9 | |
| Dibenzo(a,h)anthracene | 0.976 | 0.833 | | -14.7 | |
| Benzo(g,h,i)perylene | 0.979 | 0.937 | | -4.3 | |
| 1,2,4,5-Tetrachlorobenzene | 0.555 | 0.564 | | 1.6 | |
| 1,4-Dioxane | 0.499 | 0.482 | | -3.4 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.326 | 0.276 | | -15.3 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

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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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

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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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: BNA_F Calibration Date/Time: 10/22/2024 09:39

Lab File ID: BF139917.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.278 | 1.261 | | -1.3 | |
| Benzaldehyde | 0.931 | 0.912 | | -2.0 | |
| Phenol-d6 | 1.655 | 1.609 | | -2.8 | |
| Phenol | 1.706 | 1.663 | | -2.5 | 20.0 |
| bis(2-Chloroethyl)ether | 1.319 | 1.282 | | -2.8 | |
| 2-Chlorophenol | 1.306 | 1.309 | | 0.2 | |
| 2-Methylphenol | 1.114 | 1.094 | | -1.8 | |
| 2,2-oxybis(1-Chloropropane) | 2.248 | 2.110 | | -6.1 | |
| Acetophenone | 0.490 | 0.478 | | -2.4 | |
| 3+4-Methylphenols | 1.424 | 1.403 | | -1.5 | |
| n-Nitroso-di-n-propylamine | 1.004 | 0.945 | 0.050 | -5.9 | |
| Nitrobenzene-d5 | 0.361 | 0.380 | | 5.3 | |
| Hexachloroethane | 0.534 | 0.540 | | 1.1 | |
| Nitrobenzene | 0.396 | 0.402 | | 1.5 | |
| Isophorone | 0.685 | 0.670 | | -2.2 | |
| 2-Nitrophenol | 0.149 | 0.173 | | 16.1 | 20.0 |
| 2,4-Dimethylphenol | 0.249 | 0.244 | | -2.0 | |
| bis(2-Chloroethoxy)methane | 0.415 | 0.406 | | -2.2 | |
| 2,4-Dichlorophenol | 0.283 | 0.288 | | 1.8 | 20.0 |
| Naphthalene | 1.031 | 1.032 | | 0.1 | |
| 4-Chloroaniline | 0.352 | 0.351 | | -0.3 | |
| Hexachlorobutadiene | 0.197 | 0.204 | | 3.6 | 20.0 |
| Caprolactam | 0.090 | 0.089 | | -1.1 | |
| 4-Chloro-3-methylphenol | 0.314 | 0.312 | | -0.6 | 20.0 |
| 2-Methylnaphthalene | 0.632 | 0.628 | | -0.6 | |
| Hexachlorocyclopentadiene | 0.188 | 0.217 | 0.050 | 15.4 | |
| 2,4,6-Trichlorophenol | 0.382 | 0.408 | | 6.8 | 20.0 |
| 2-Fluorobiphenyl | 1.210 | 1.182 | | -2.3 | |
| 2,4,5-Trichlorophenol | 0.394 | 0.398 | | 1.0 | |
| 1,1-Biphenyl | 1.392 | 1.379 | | -0.9 | |
| 2-Chloronaphthalene | 1.121 | 1.123 | | 0.2 | |
| 2-Nitroaniline | 0.343 | 0.368 | | 7.3 | |
| Dimethylphthalate | 1.246 | 1.243 | | -0.2 | |
| Acenaphthylene | 1.621 | 1.606 | | -0.9 | |
| 2,6-Dinitrotoluene | 0.270 | 0.288 | | 6.7 | |
| 3-Nitroaniline | 0.278 | 0.290 | | 4.3 | |
| Acenaphthene | 1.049 | 1.063 | | 1.3 | 20.0 |
| 2,4-Dinitrophenol | 0.093 | 0.135 | 0.050 | 45.2 | |
| 4-Nitrophenol | 0.214 | 0.236 | 0.050 | 10.3 | |

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: BNA_F Calibration Date/Time: 10/22/2024 09:39

Lab File ID: BF139917.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 | 1.486 | | -1.3 | |
| 2,4-Dinitrotoluene | 0.332 | 0.383 | | 15.4 | |
| Diethylphthalate | 1.223 | 1.207 | | -1.3 | |
| 4-Chlorophenyl-phenylether | 0.579 | 0.588 | | 1.6 | |
| Fluorene | 1.146 | 1.131 | | -1.3 | |
| 4-Nitroaniline | 0.263 | 0.284 | | 8.0 | |
| 4,6-Dinitro-2-methylphenol | 0.082 | 0.110 | | 34.1 | |
| n-Nitrosodiphenylamine | 0.599 | 0.590 | | -1.5 | 20.0 |
| 2,4,6-Tribromophenol | 0.187 | 0.203 | | 8.6 | |
| 4-Bromophenyl-phenylether | 0.206 | 0.210 | | 1.9 | |
| Hexachlorobenzene | 0.232 | 0.234 | | 0.9 | |
| Atrazine | 0.162 | 0.167 | | 3.1 | |
| Pentachlorophenol | 0.141 | 0.161 | | 14.2 | 20.0 |
| Phenanthrene | 0.945 | 0.922 | | -2.4 | |
| Anthracene | 0.922 | 0.911 | | -1.2 | |
| Carbazole | 0.857 | 0.835 | | -2.6 | |
| Di-n-butylphthalate | 0.990 | 0.962 | | -2.8 | |
| Fluoranthene | 0.955 | 0.943 | | -1.3 | 20.0 |
| Pyrene | 1.751 | 1.947 | | 11.2 | |
| Terphenyl-d14 | 1.227 | 1.333 | | 8.6 | |
| Butylbenzylphthalate | 0.525 | 0.554 | | 5.5 | |
| 3,3-Dichlorobenzidine | 0.380 | 0.418 | | 10.0 | |
| Benzo(a)anthracene | 1.302 | 1.298 | | -0.3 | |
| Chrysene | 1.194 | 1.200 | | 0.5 | |
| Bis(2-ethylhexyl)phthalate | 0.589 | 0.653 | | 10.9 | |
| Di-n-octyl phthalate | 1.071 | 1.174 | | 9.6 | 20.0 |
| Benzo(b)fluoranthene | 1.218 | 1.212 | | -0.5 | |
| Benzo(k)fluoranthene | 1.051 | 0.968 | | -7.9 | |
| Benzo(a)pyrene | 1.002 | 1.008 | | 0.6 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.287 | 1.475 | | 14.6 | |
| Dibenzo(a,h)anthracene | 1.073 | 1.220 | | 13.7 | |
| Benzo(g,h,i)perylene | 1.072 | 1.265 | | 18.0 | |
| 1,2,4,5-Tetrachlorobenzene | 0.540 | 0.546 | | 1.1 | |
| 1,4-Dioxane | 0.596 | 0.558 | | -6.4 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.309 | 0.325 | | 5.2 | |

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\BF101424\
Data File : BF139794.D
Acq On : 14 Oct 2024 17:56
Operator : RC/JU
Sample : P4258-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Quant Time: Oct 14 18:26:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

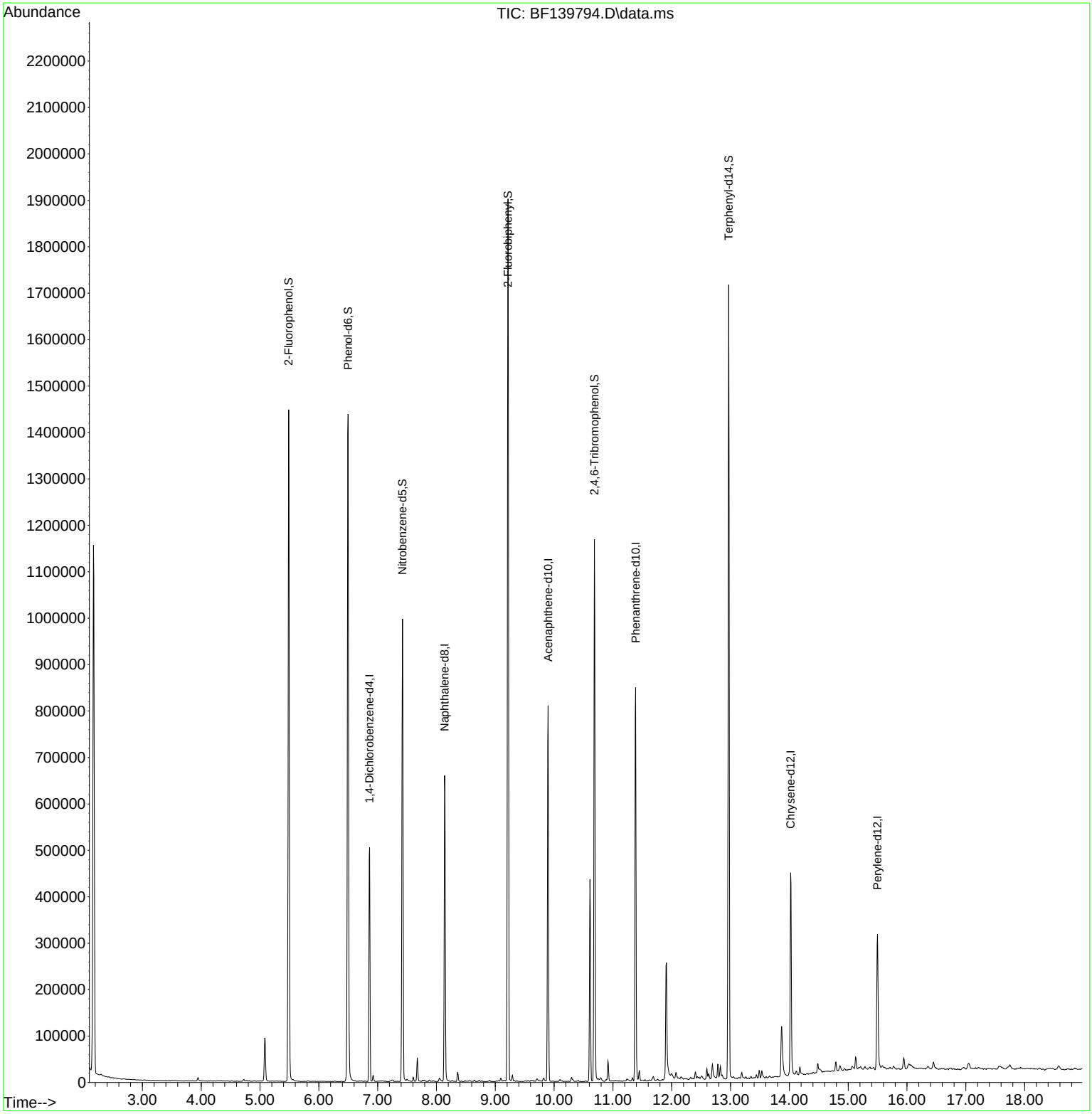
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.863 | 152 | 105117 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.139 | 136 | 416218 | 20.000 | ng | -0.01 |
| 39) Acenaphthene-d10 | 9.898 | 164 | 238846 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.386 | 188 | 453325 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.021 | 240 | 213480 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.498 | 264 | 177491 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.487 | 112 | 511418 | 84.326 | ng | 0.00 |
| 7) Phenol-d6 | 6.498 | 99 | 675068 | 82.772 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.422 | 82 | 439865 | 53.507 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.686 | 330 | 180418 | 78.250 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 9.216 | 172 | 823845 | 52.953 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.969 | 244 | 827799 | 63.626 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |

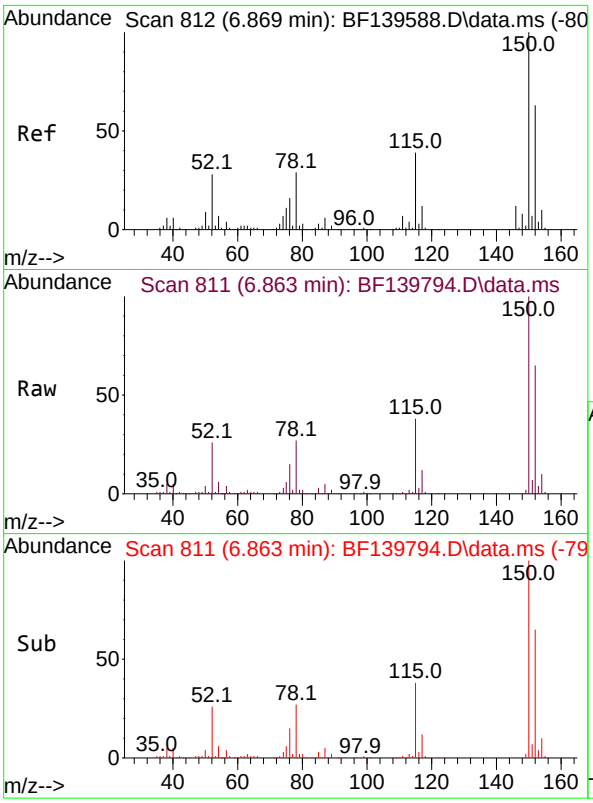
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101424\
Data File : BF139794.D
Acq On : 14 Oct 2024 17:56
Operator : RC/JU
Sample : P4258-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Quant Time: Oct 14 18:26:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration



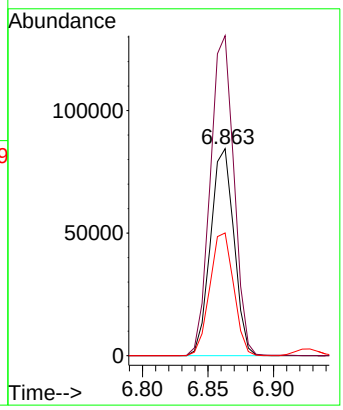


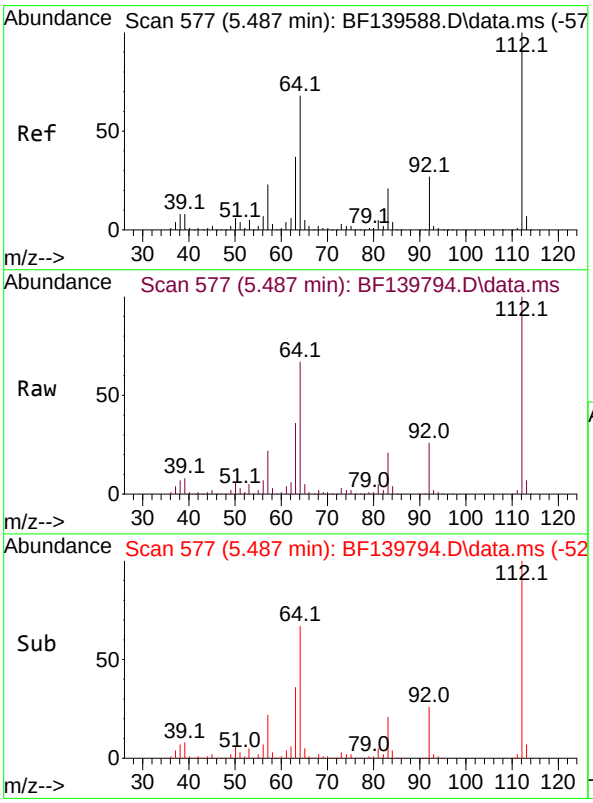

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Tgt Ion:152 Resp: 105117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.5 | 127.2 | 190.8 |
| 115 | 59.3 | 49.0 | 73.4 |

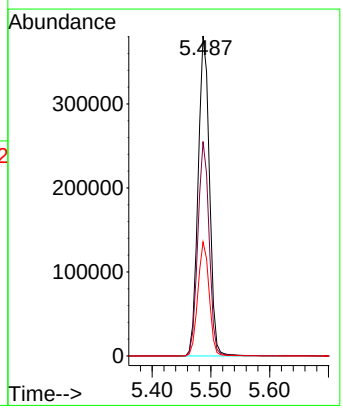


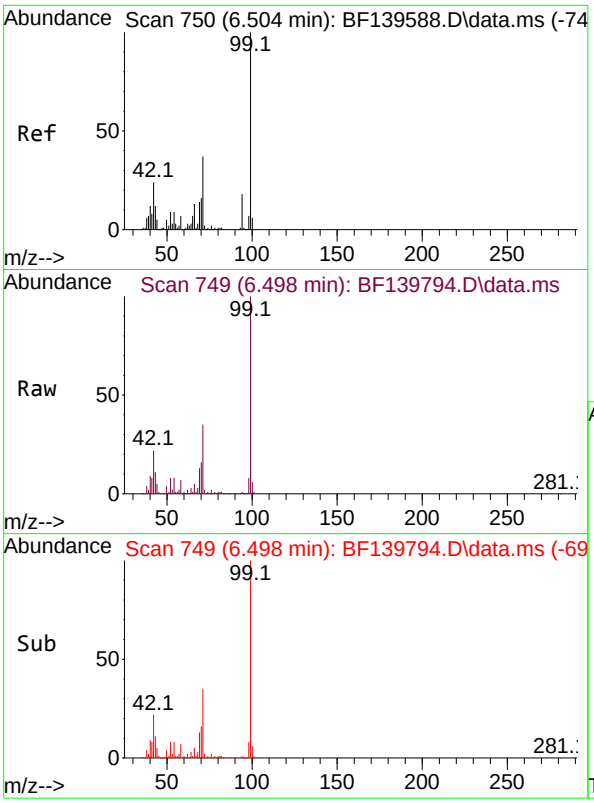




#5
2-Fluorophenol
Concen: 84.326 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.000 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

Tgt Ion:112 Resp: 511418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.0 | 54.2 | 81.4 |
| 63 | 35.6 | 29.4 | 44.2 |



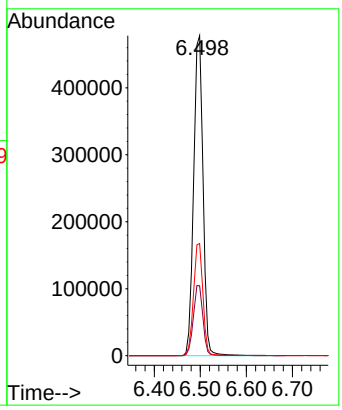


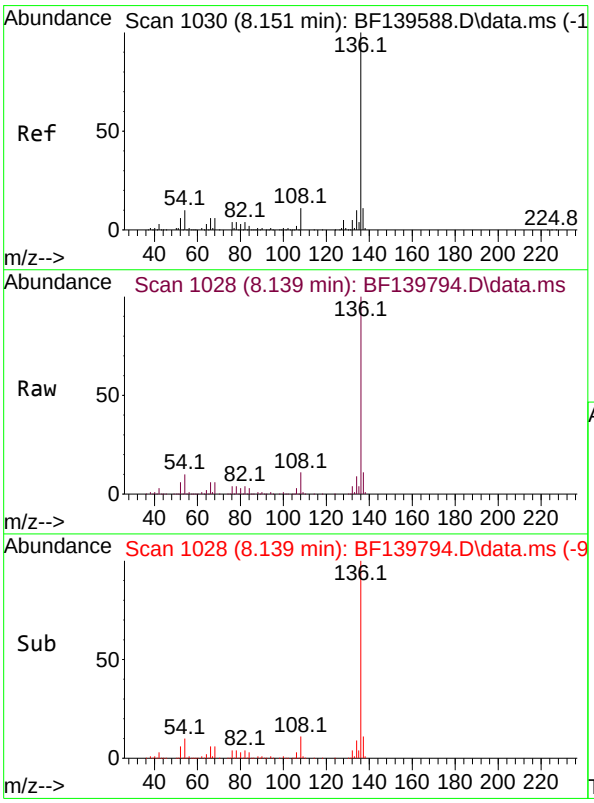

#7
Phenol-d6
Concen: 82.772 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Tgt Ion: 99 Resp: 675068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.9 | 19.1 | 28.7 |
| 71 | 35.1 | 29.7 | 44.5 |

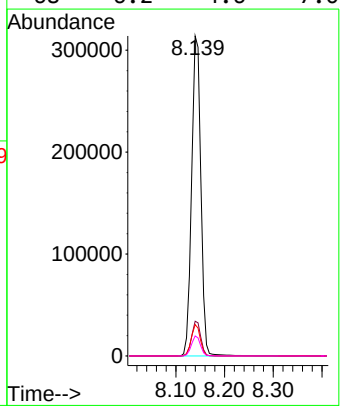


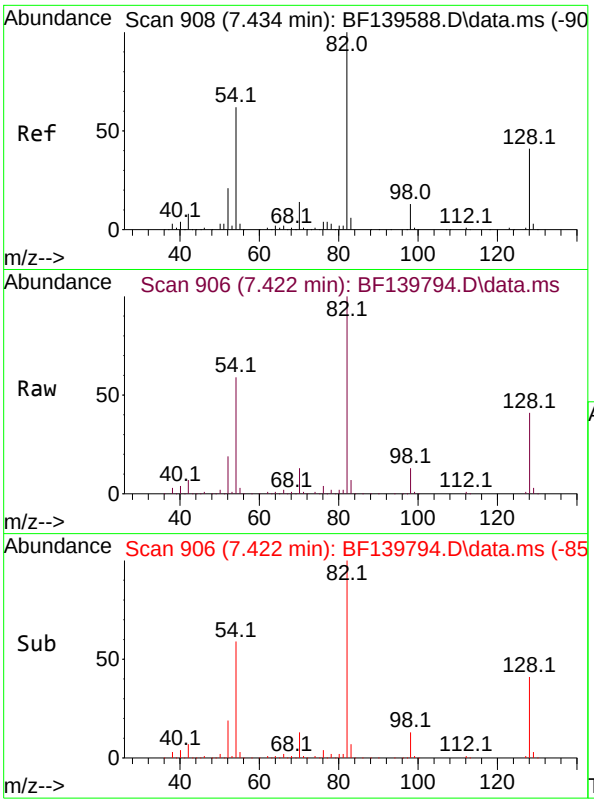




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.139 min Scan# 1028
Delta R.T. -0.012 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

Tgt Ion:136 Resp: 416218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.9 | 8.6 | 13.0 |
| 54 | 9.8 | 8.3 | 12.5 |
| 68 | 6.2 | 4.6 | 7.0 |



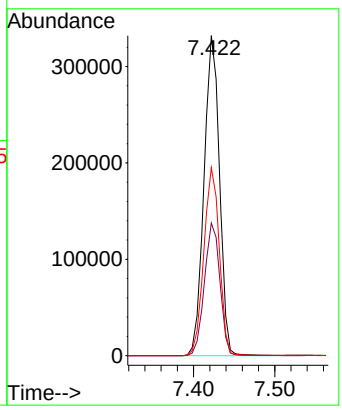


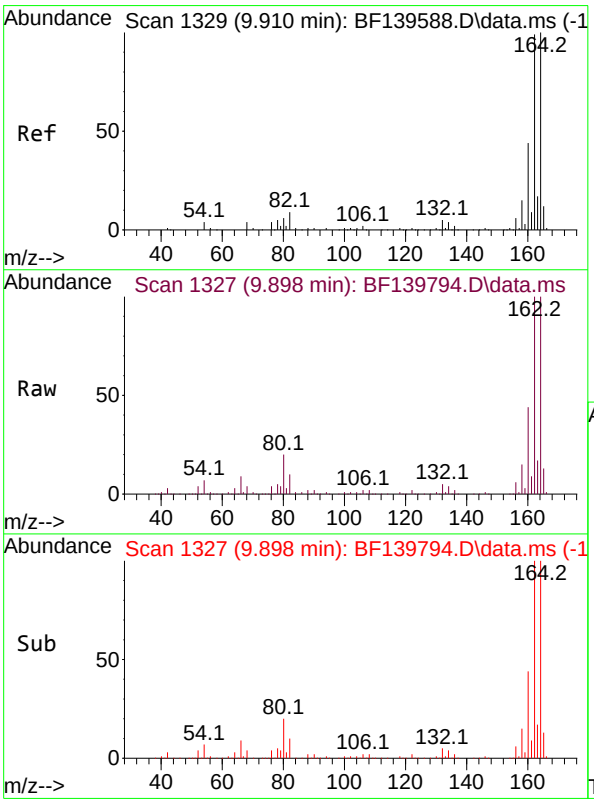

#23
Nitrobenzene-d5
Concen: 53.507 ng
RT: 7.422 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Tgt Ion: 82 Resp: 439865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.4 | 32.4 | 48.6 |
| 54 | 58.8 | 49.1 | 73.7 |

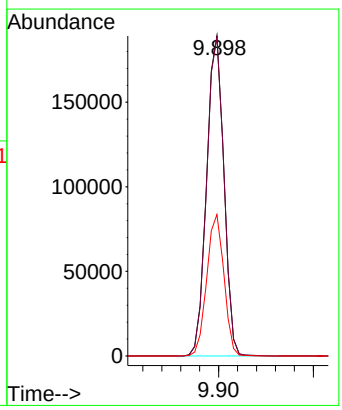


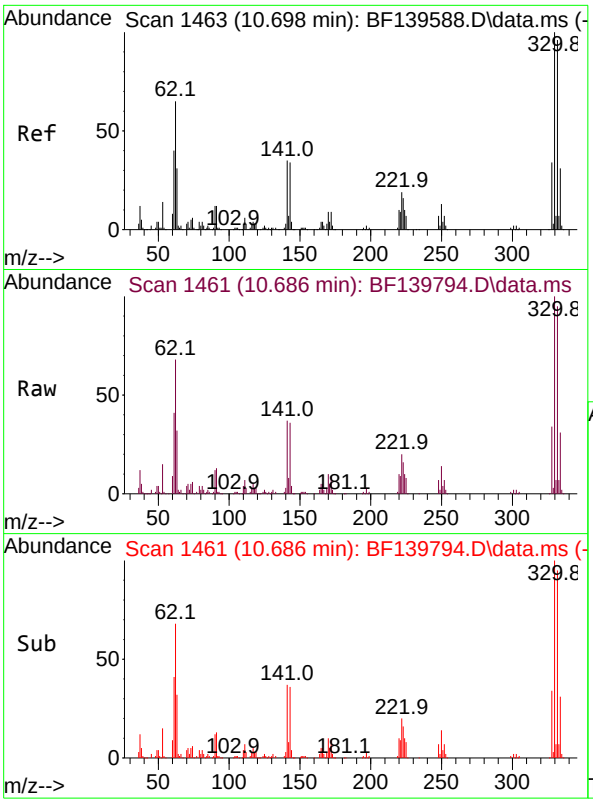




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.012 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

Tgt Ion:164 Resp: 238846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.7 | 79.4 | 119.0 |
| 160 | 44.2 | 35.1 | 52.7 |



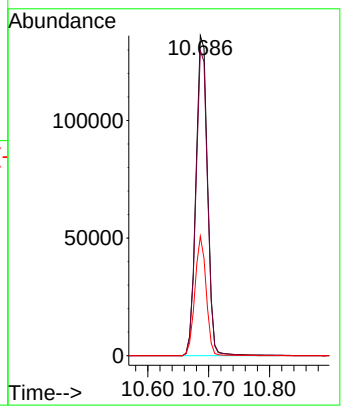


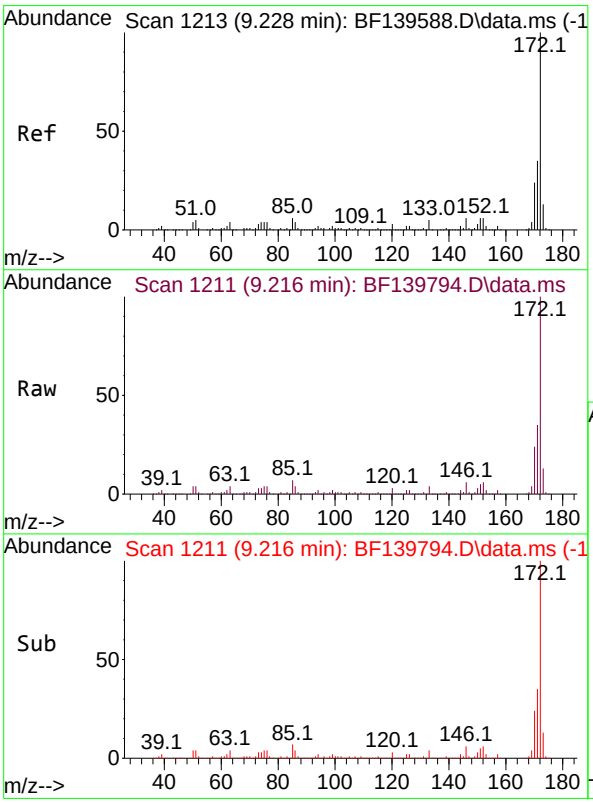

#42
2,4,6-Tribromophenol
Concen: 78.250 ng
RT: 10.686 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Tgt Ion:330 Resp: 180418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.5 | 76.5 | 114.7 |
| 141 | 36.0 | 29.3 | 43.9 |

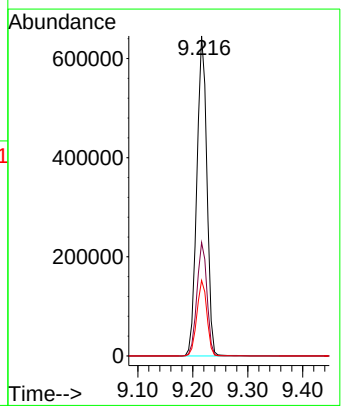


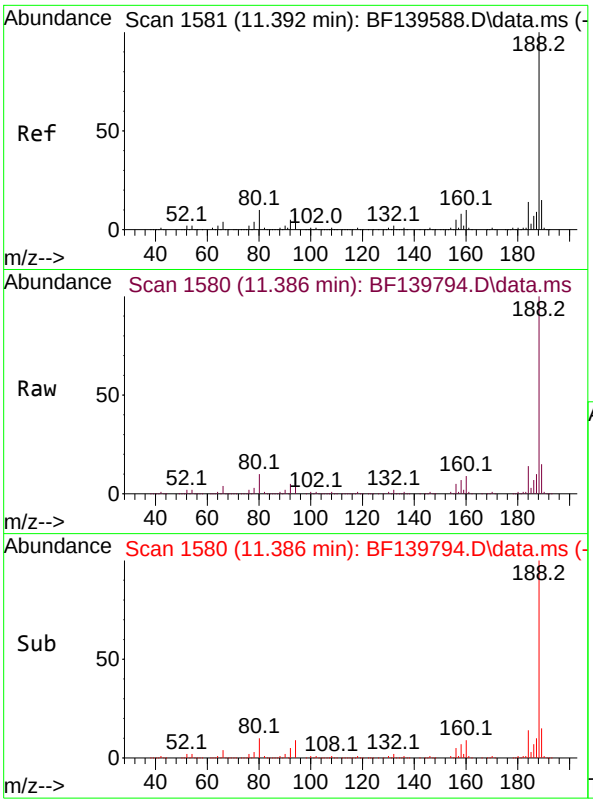




#45
2-Fluorobiphenyl
Concen: 52.953 ng
RT: 9.216 min Scan# 1211
Delta R.T. -0.012 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

Tgt Ion:172 Resp: 823845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 28.2 | 42.4 |
| 170 | 23.6 | 18.8 | 28.2 |



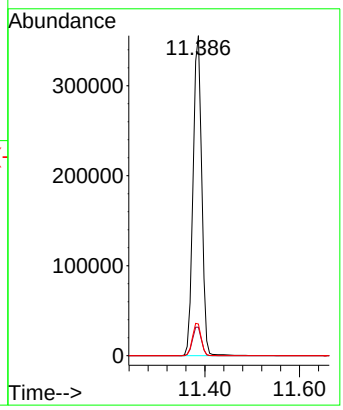


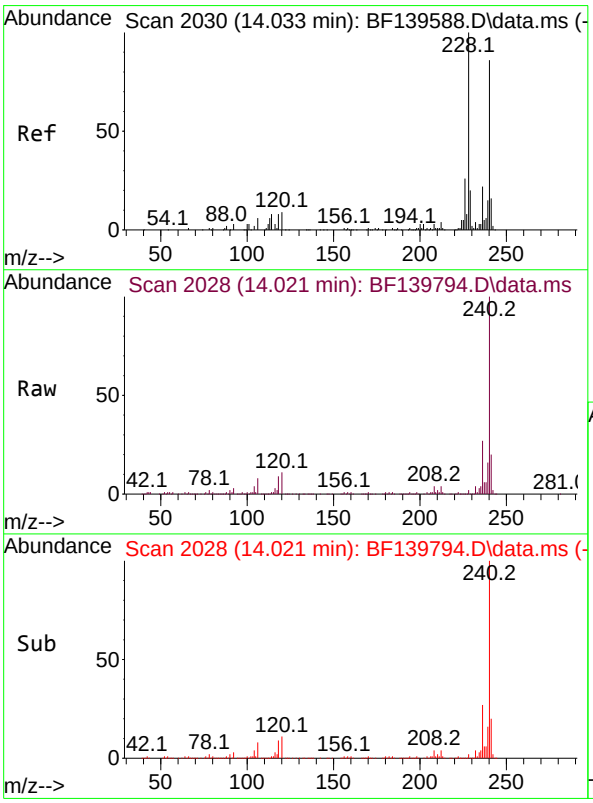

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Tgt Ion:188 Resp: 453325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.9 | 7.4 | 11.2 |
| 80 | 9.9 | 8.2 | 12.2 |

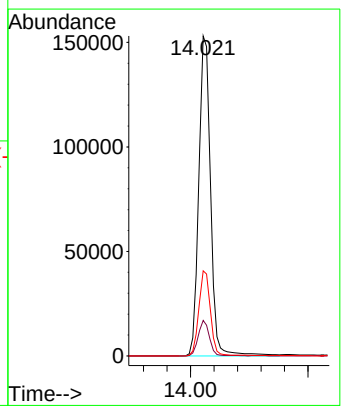


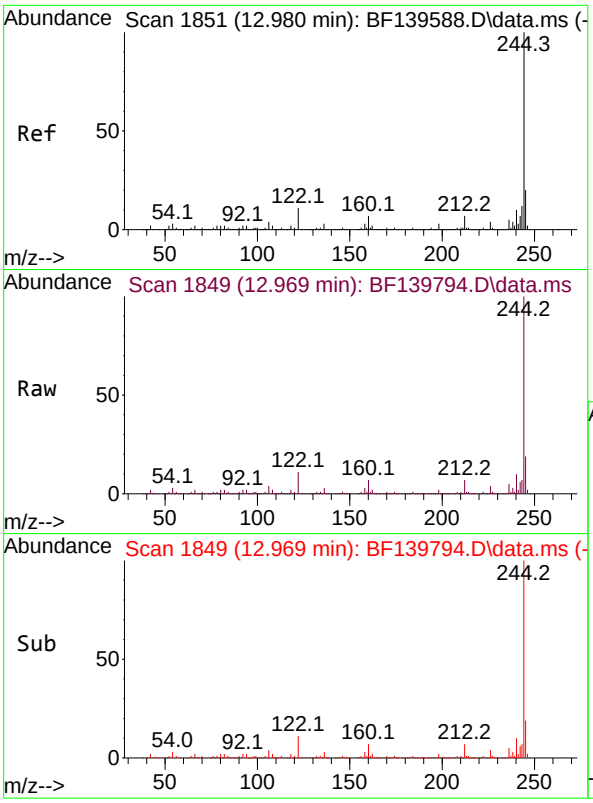




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

Tgt Ion:240 Resp: 213480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.1 | 8.4 | 12.6 |
| 236 | 26.6 | 20.3 | 30.5 |



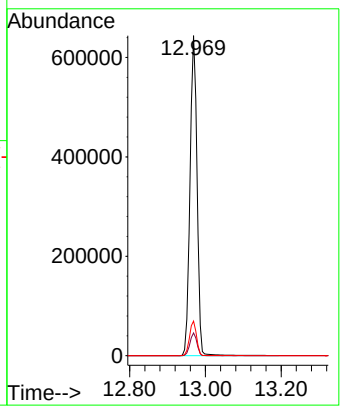


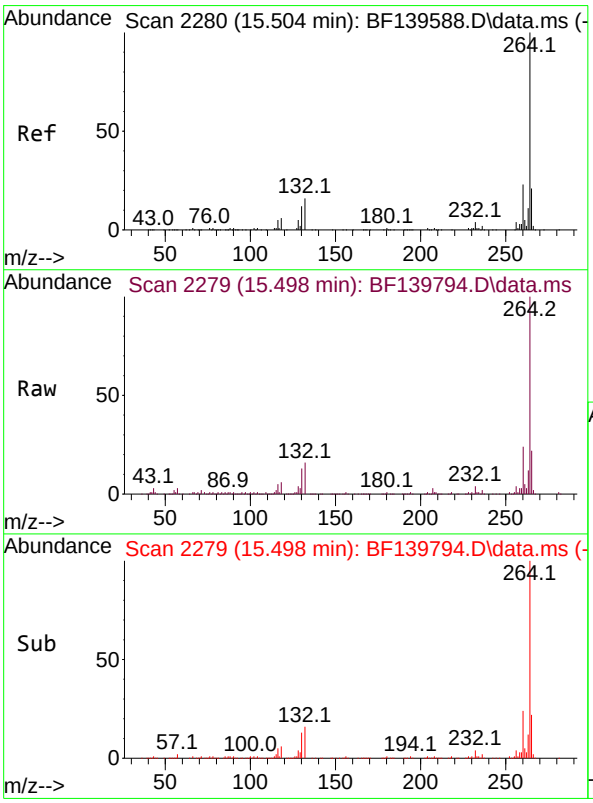

#79
Terphenyl-d14
Concen: 63.626 ng
RT: 12.969 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Tgt Ion:244 Resp: 827799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.8 | 8.6 |
| 122 | 10.8 | 8.6 | 12.8 |

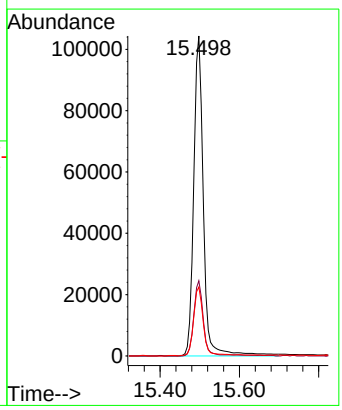



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.498 min Scan# 2279
Delta R.T. -0.006 min
Lab File: BF139794.D
Acq: 14 Oct 2024 17:56

Tgt Ion:264 Resp: 177491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.5 | 18.7 | 28.1 |
| 265 | 21.5 | 16.9 | 25.3 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101424\
Data File : BF139794.D
Acq On : 14 Oct 2024 17:56
Operator : RC/JU
Sample : P4258-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

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-BF100124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF139794.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.169 | 6 | 13 | 31 | rVB | 1140800 | 1827158 | 76.05% | 9.239% |
| 2 | 5.081 | 500 | 508 | 524 | rVB | 93629 | 145304 | 6.05% | 0.735% |
| 3 | 5.487 | 571 | 577 | 588 | rBV | 1446231 | 1928743 | 80.28% | 9.752% |
| 4 | 6.498 | 736 | 749 | 774 | rBV | 1437505 | 2098728 | 87.36% | 10.612% |
| 5 | 6.863 | 805 | 811 | 816 | rBV | 503745 | 637404 | 26.53% | 3.223% |
| 6 | 7.422 | 900 | 906 | 911 | rBV | 996065 | 1313751 | 54.68% | 6.643% |
| 7 | 7.675 | 942 | 949 | 956 | rBV | 50866 | 65516 | 2.73% | 0.331% |
| 8 | 8.139 | 1023 | 1028 | 1037 | rBV | 658134 | 863480 | 35.94% | 4.366% |
| 9 | 8.363 | 1061 | 1066 | 1073 | rVB2 | 19664 | 27408 | 1.14% | 0.139% |
| 10 | 9.216 | 1205 | 1211 | 1216 | rBV | 1900127 | 2402476 | 100.00% | 12.148% |
| 11 | 9.898 | 1321 | 1327 | 1332 | rBV | 808233 | 1022190 | 42.55% | 5.169% |
| 12 | 10.610 | 1440 | 1448 | 1454 | rBV | 434841 | 538364 | 22.41% | 2.722% |
| 13 | 10.686 | 1455 | 1461 | 1470 | rBV | 1166173 | 1502904 | 62.56% | 7.599% |
| 14 | 10.916 | 1496 | 1500 | 1509 | rVB | 43035 | 55456 | 2.31% | 0.280% |
| 15 | 11.386 | 1574 | 1580 | 1587 | rBV | 847940 | 1096879 | 45.66% | 5.546% |
| 16 | 11.451 | 1587 | 1591 | 1595 | rVB3 | 21008 | 25852 | 1.08% | 0.131% |
| 17 | 11.910 | 1659 | 1669 | 1681 | rBV | 252902 | 419562 | 17.46% | 2.121% |
| 18 | 12.598 | 1782 | 1786 | 1789 | rBV | 22530 | 29342 | 1.22% | 0.148% |
| 19 | 12.692 | 1797 | 1802 | 1813 | rBV | 30408 | 53188 | 2.21% | 0.269% |
| 20 | 12.780 | 1813 | 1817 | 1821 | rBV | 29288 | 36796 | 1.53% | 0.186% |
| 21 | 12.827 | 1821 | 1825 | 1828 | rBV | 22229 | 27408 | 1.14% | 0.139% |
| 22 | 12.969 | 1843 | 1849 | 1854 | rBV | 1710437 | 2170237 | 90.33% | 10.973% |
| 23 | 13.868 | 1996 | 2002 | 2019 | rBV | 107812 | 221167 | 9.21% | 1.118% |
| 24 | 14.021 | 2021 | 2028 | 2038 | rBV | 436522 | 612810 | 25.51% | 3.099% |
| 25 | 14.180 | 2051 | 2055 | 2066 | rBV | 16642 | 27993 | 1.17% | 0.142% |
| 26 | 14.486 | 2102 | 2107 | 2110 | rBV | 19790 | 30470 | 1.27% | 0.154% |
| 27 | 14.792 | 2155 | 2159 | 2163 | rVB | 18433 | 24784 | 1.03% | 0.125% |
| 28 | 15.127 | 2212 | 2216 | 2222 | rVB | 25171 | 35020 | 1.46% | 0.177% |
| 29 | 15.498 | 2272 | 2279 | 2289 | rBV | 291896 | 497411 | 20.70% | 2.515% |
| 30 | 15.945 | 2350 | 2355 | 2361 | rBV | 23689 | 39357 | 1.64% | 0.199% |

Sum of corrected areas: 19777158

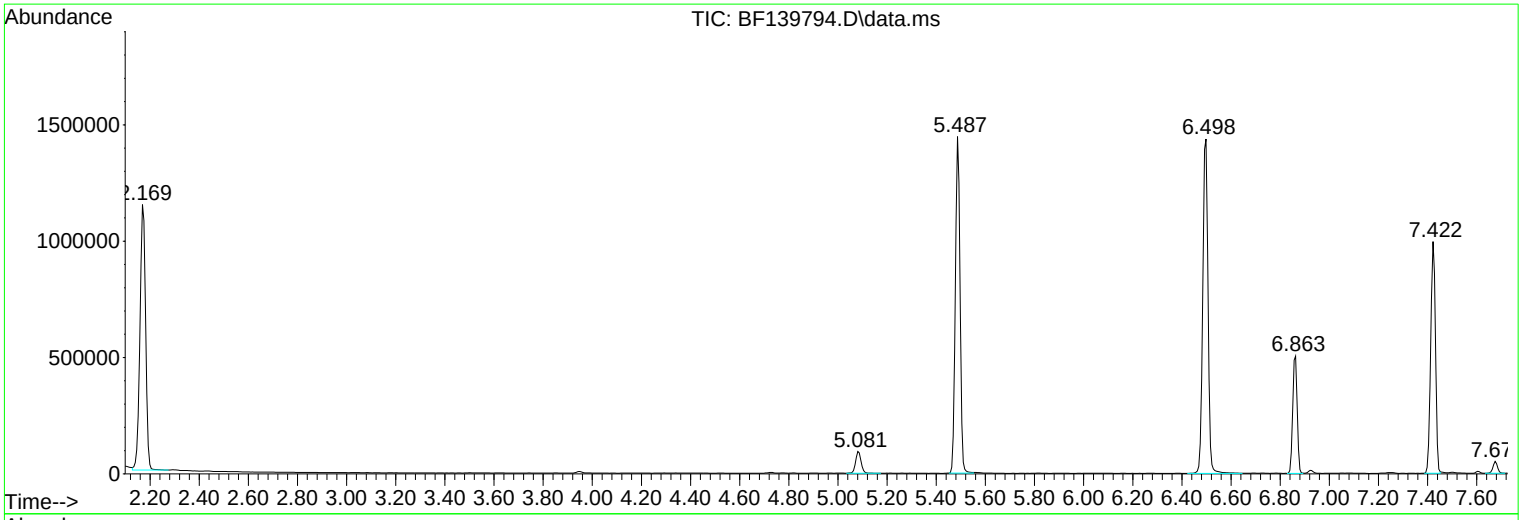
Sample Results: **BF139794.D**

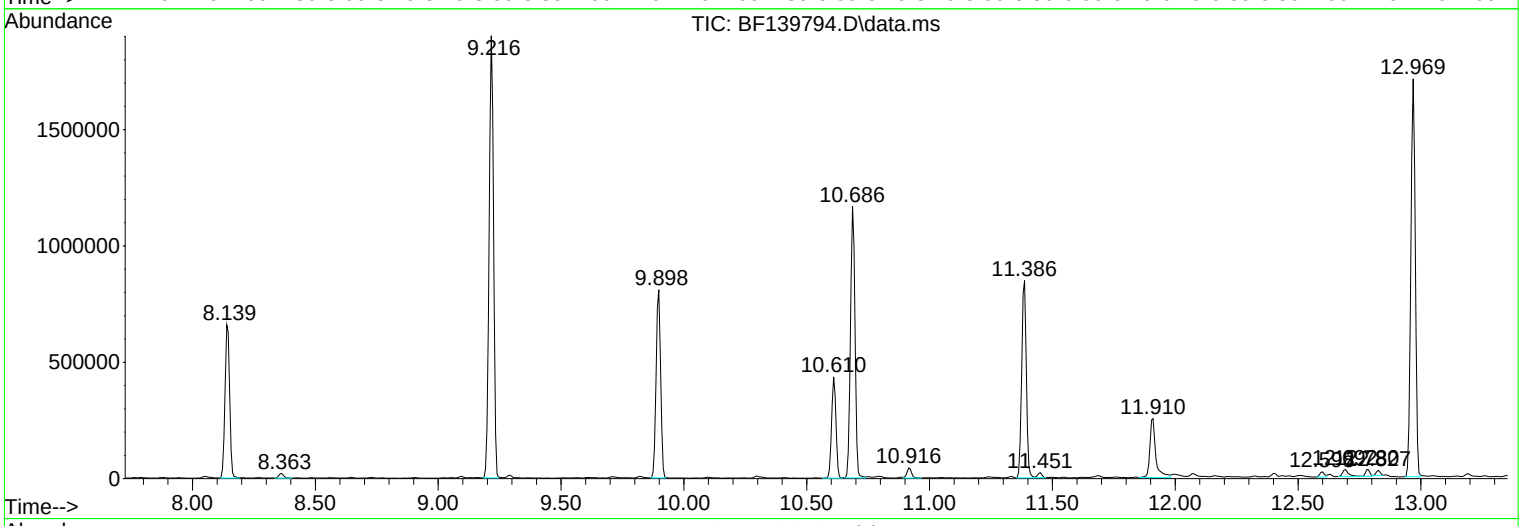
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Data File : BF139794.D
Acq On : 14 Oct 2024 17:56
Operator : RC/JU
Sample : P4258-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

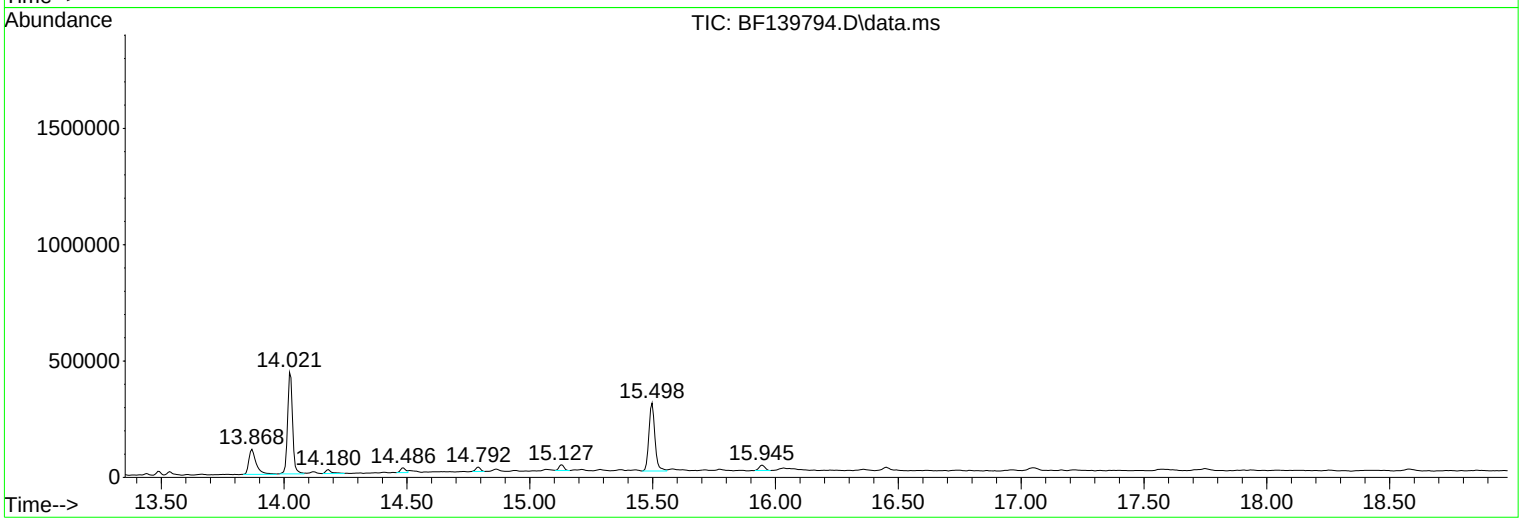
**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.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\BF101424\
Data File : BF139794.D
Acq On : 14 Oct 2024 17:56
Operator : RC/JU
Sample : P4258-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

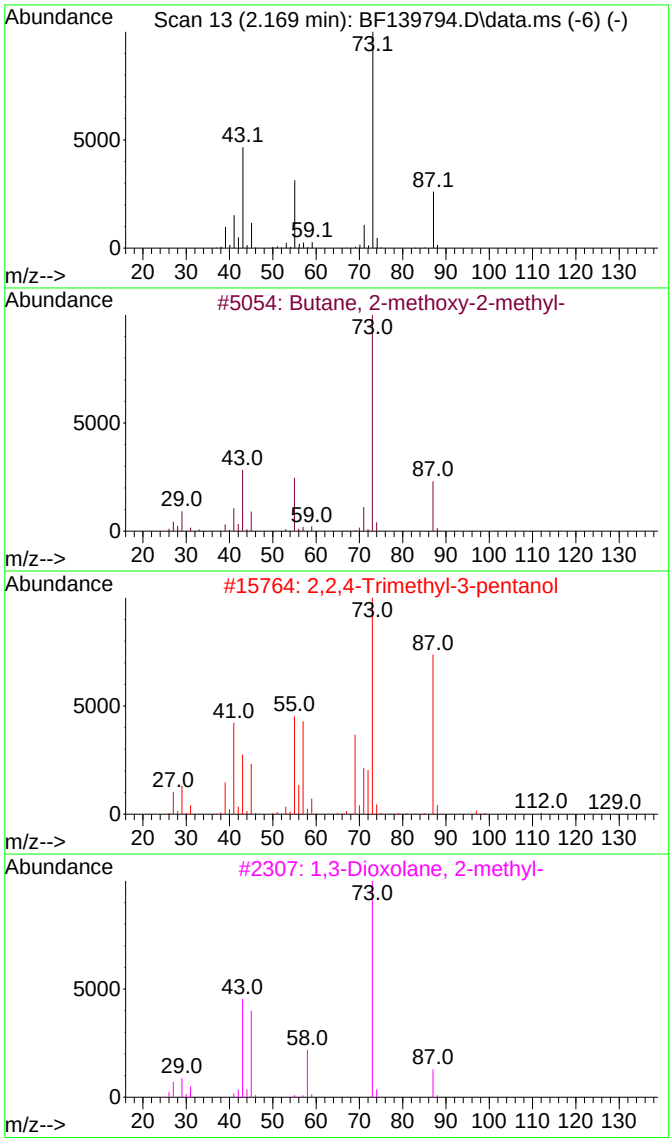
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

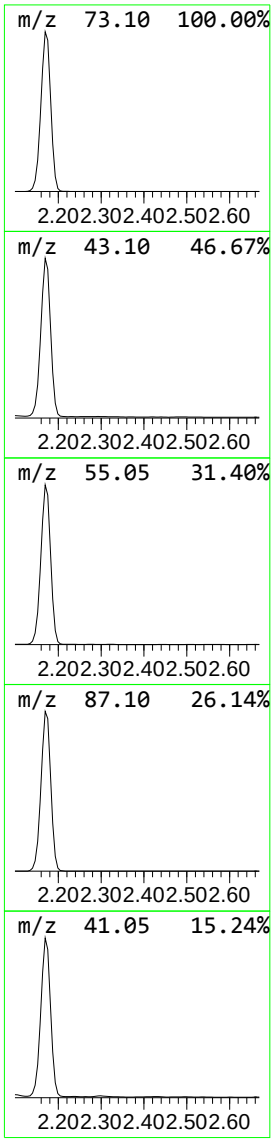
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.169 | 57.33 ng | 1827160 | 1,4-Dichlorobenzene-d4 | 6.863 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 3 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 23 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 12 |
| 5 | Acetamide, N-ethyl- | 87 | C4H9NO | 000625-50-3 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101424\
Data File : BF139794.D
Acq On : 14 Oct 2024 17:56
Operator : RC/JU
Sample : P4258-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

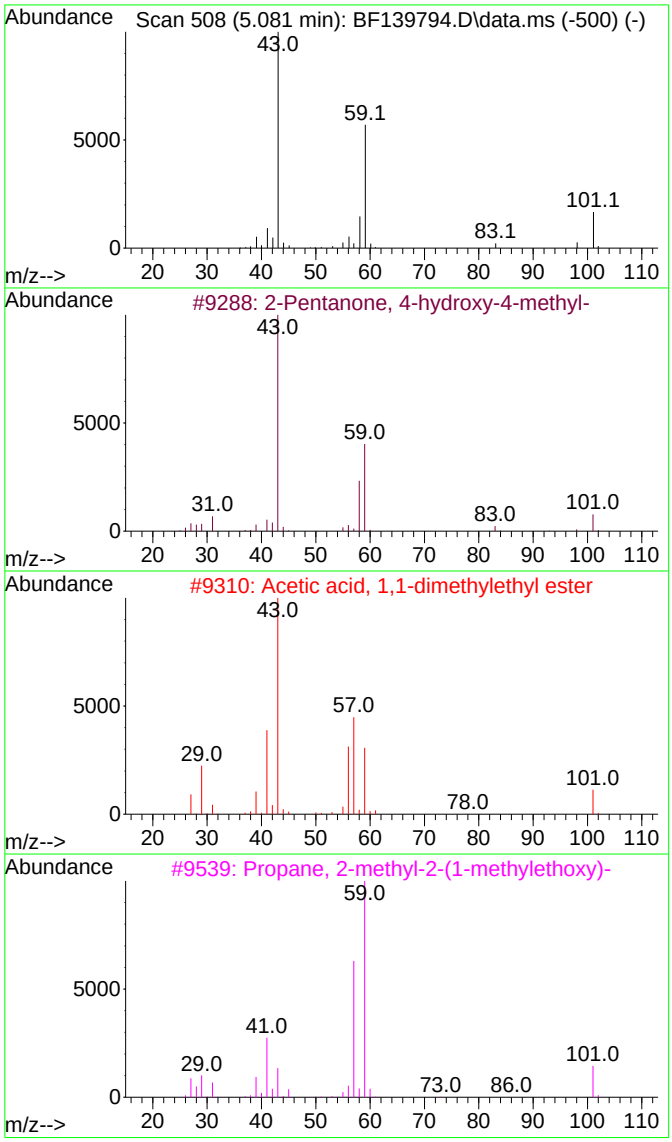
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

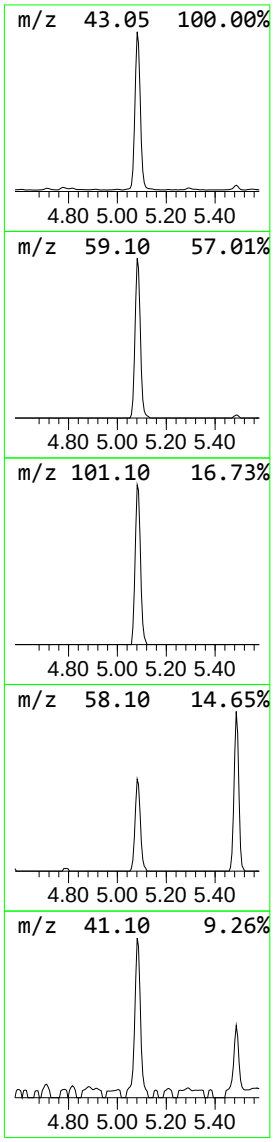
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.081 | 4.56 ng | 145304 | 1,4-Dichlorobenzene-d4 | 6.863 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 38 |
| 3 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 36 |
| 4 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 28 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101424\
Data File : BF139794.D
Acq On : 14 Oct 2024 17:56
Operator : RC/JU
Sample : P4258-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

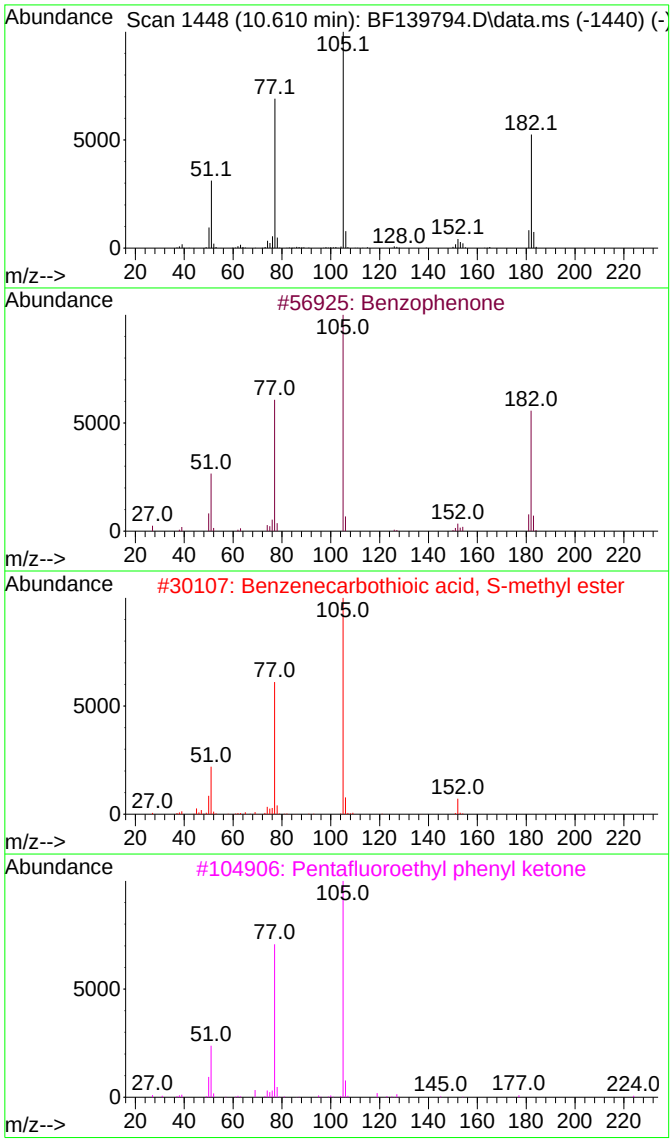
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

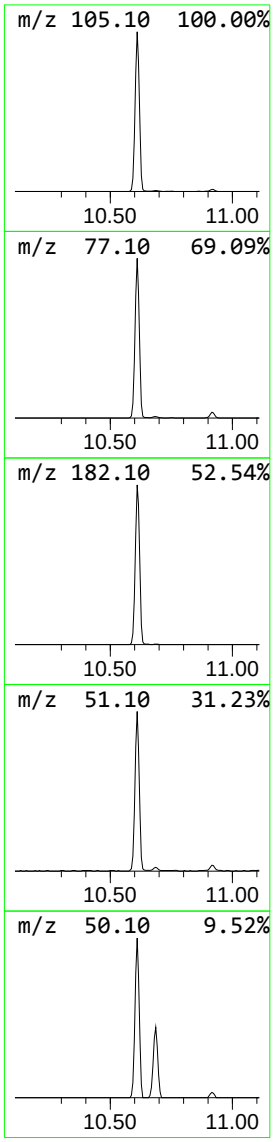
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Peak Number 3 Benzophenone Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.610 | 10.53 ng | 538364 | Acenaphthene-d10 | 9.898 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS | 005925-68-8 | 52 |
| 3 | Pentafluoroethyl phenyl ketone | 224 | C9H5F5O | 000394-52-5 | 50 |
| 4 | Benzeneacetic acid, .alpha.-oxo-... | 178 | C10H10O3 | 001603-79-8 | 50 |
| 5 | 1-Propanone, 3-chloro-1-phenyl- | 168 | C9H9ClO | 000936-59-4 | 50 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101424\
Data File : BF139794.D
Acq On : 14 Oct 2024 17:56
Operator : RC/JU
Sample : P4258-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

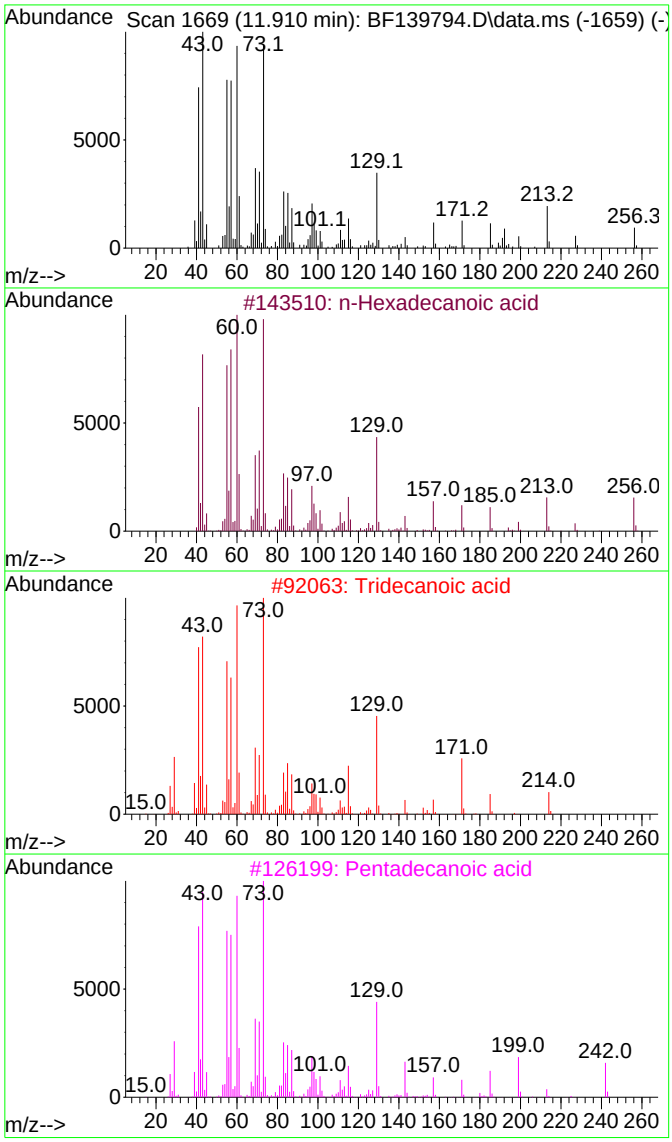
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

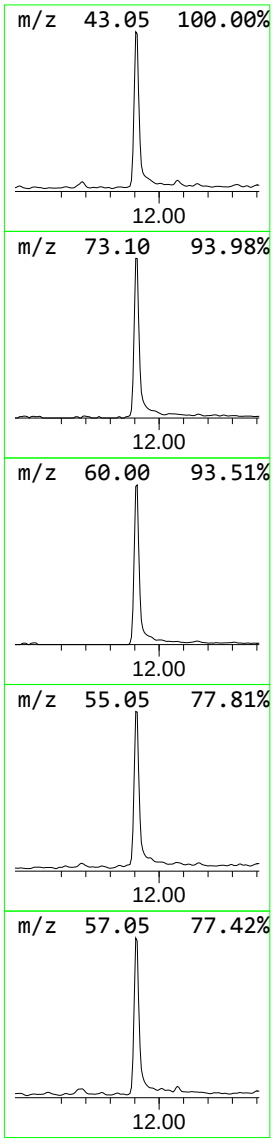
**********

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.910 | 7.65 ng | 419562 | Phenanthrene-d10 | 11.386 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 89 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 87 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 62 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 60 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101424\
Data File : BF139794.D
Acq On : 14 Oct 2024 17:56
Operator : RC/JU
Sample : P4258-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

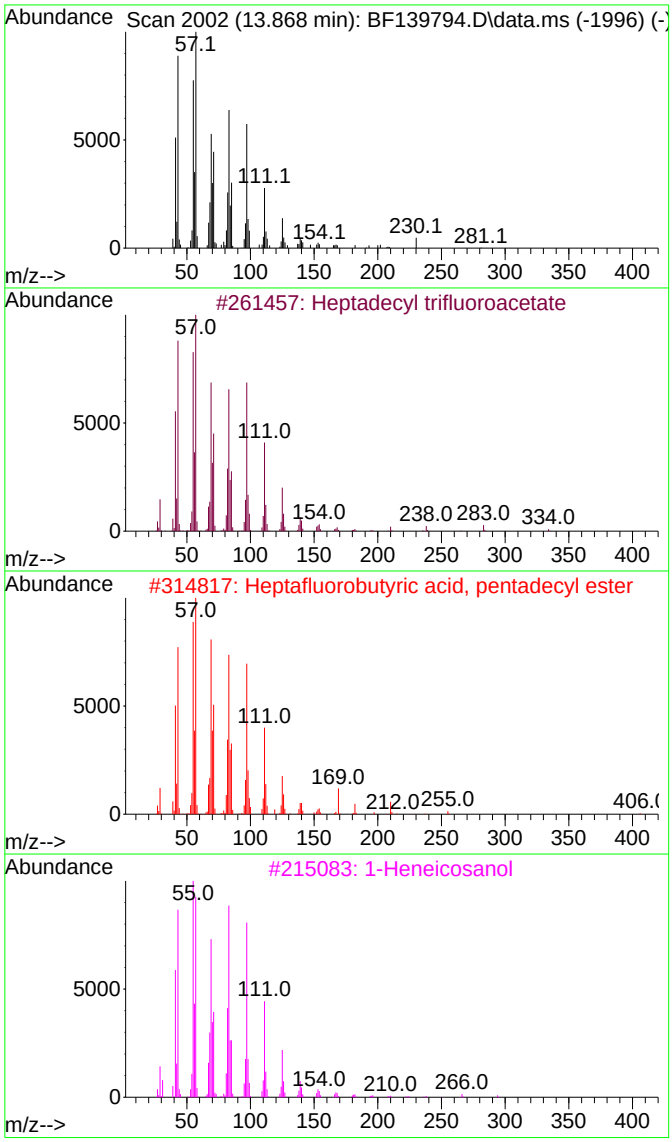
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

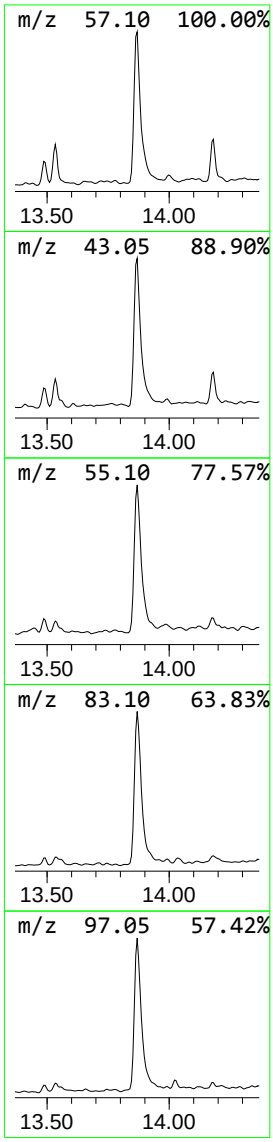
**********

Peak Number 5 Heptadecyl trifluoroacetate Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.868 | 7.22 ng | 221167 | Chrysene-d12 | 14.021 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecyl trifluoroacetate | 352 | C19H35F3O2 | 1010351-87-0 | 94 |
| 2 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 94 |
| 3 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 93 |
| 4 | Pentafluoropropionic acid, hexad... | 388 | C19H33F5O2 | 006222-07-7 | 91 |
| 5 | Tricosyl heptafluorobutyrate | 536 | C27H47F7O2 | 1000351-83-4 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101424\
Data File : BF139794.D
Acq On : 14 Oct 2024 17:56
Operator : RC/JU
Sample : P4258-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.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... | 2.169 | 57.3 | ng | 1827160 | 1 | 6.863 | 637404 | 20.0 |
| 2-Pentanone, 4-... | 5.081 | 4.6 | ng | 145304 | 1 | 6.863 | 637404 | 20.0 |
| Benzophenone | 10.610 | 10.5 | ng | 538364 | 3 | 9.898 | 1022190 | 20.0 |
| n-Hexadecanoic ... | 11.910 | 7.7 | ng | 419562 | 4 | 11.386 | 1096880 | 20.0 |
| Heptadecyl trif... | 13.868 | 7.2 | ng | 221167 | 5 | 14.021 | 612810 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139920.D
Acq On : 22 Oct 2024 11:05
Operator : RC/JU
Sample : PB164071BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

Quant Time: Oct 22 12:32:38 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

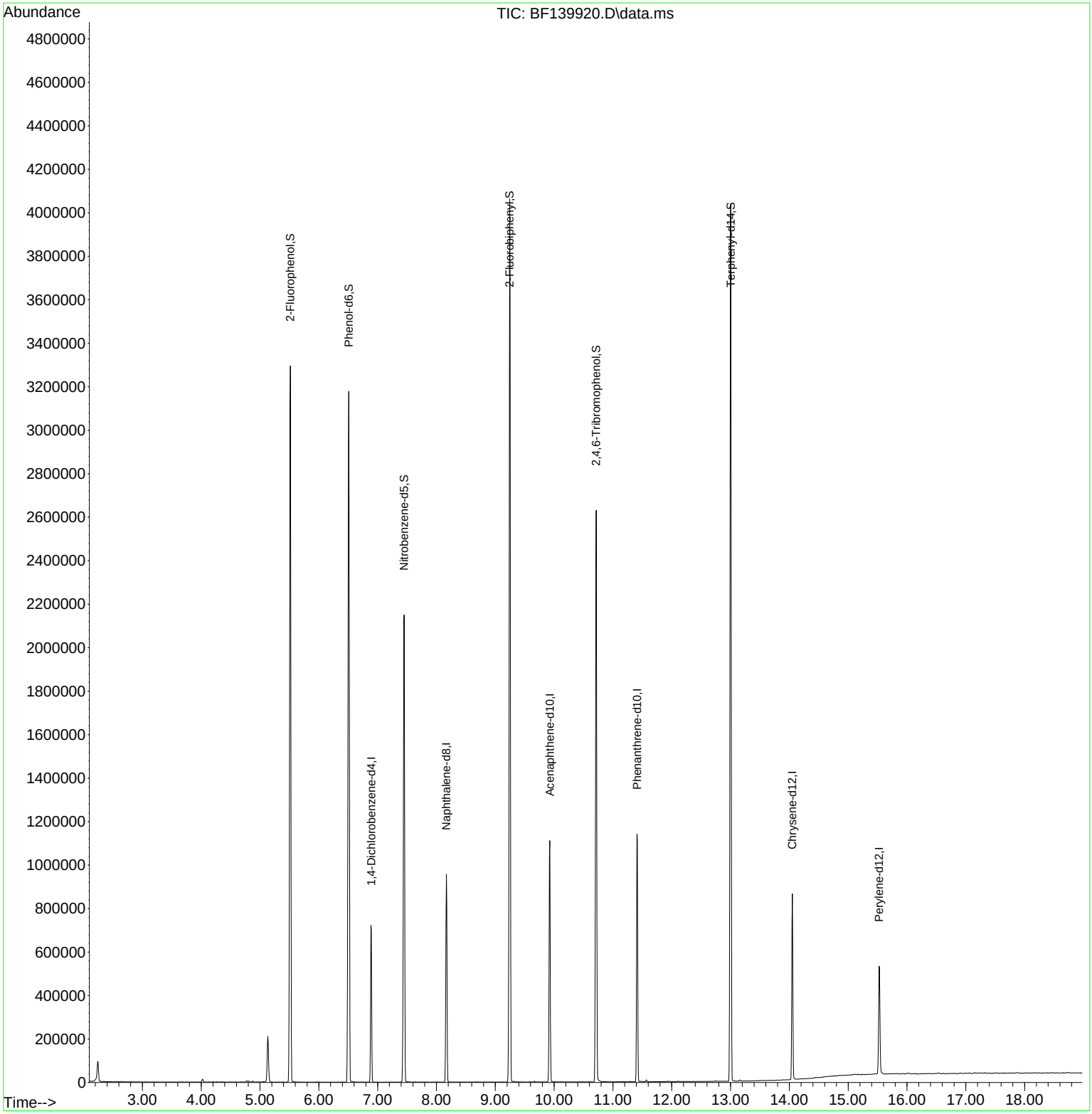
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 150261 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 593957 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 338069 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 611789 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 390858 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.527 | 264 | 293996 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.516 | 112 | 1291484 | 134.553 | ng | 0.02 |
| 7) Phenol-d6 | 6.510 | 99 | 1640356 | 131.953 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 1060228 | 98.933 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.716 | 330 | 475370 | 150.329 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 1914793 | 93.607 | ng | 0.00 |
| 79) Terphenyl-d14 | 13.004 | 244 | 2158698 | 89.996 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

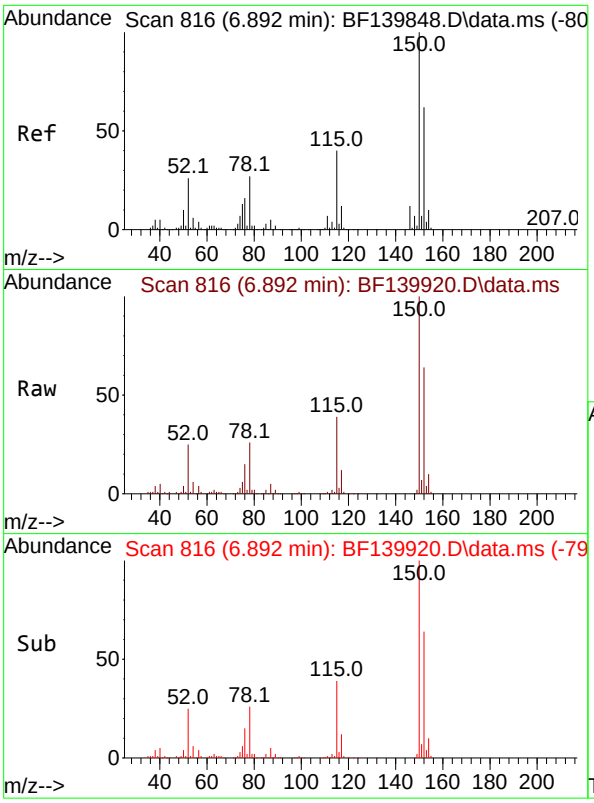
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139920.D
Acq On : 22 Oct 2024 11:05
Operator : RC/JU
Sample : PB164071BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

Quant Time: Oct 22 12:32:38 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



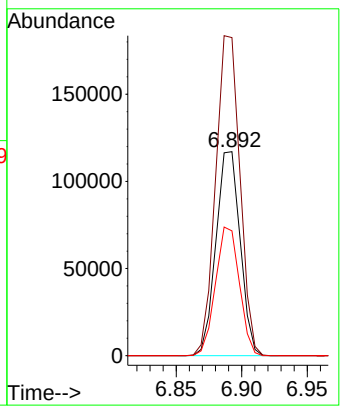


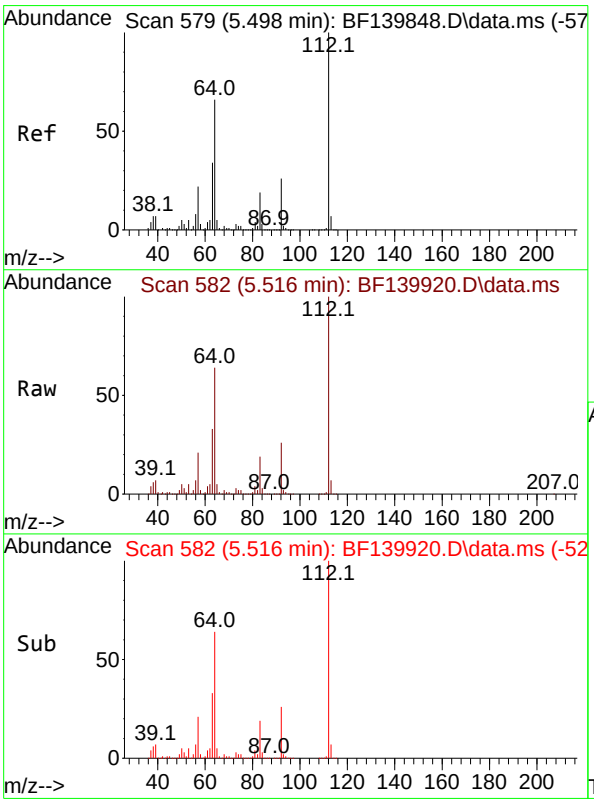

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

Tgt Ion:152 Resp: 150261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.0 | 130.2 | 195.2 |
| 115 | 61.2 | 51.4 | 77.2 |

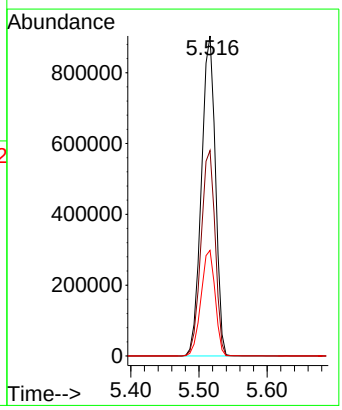


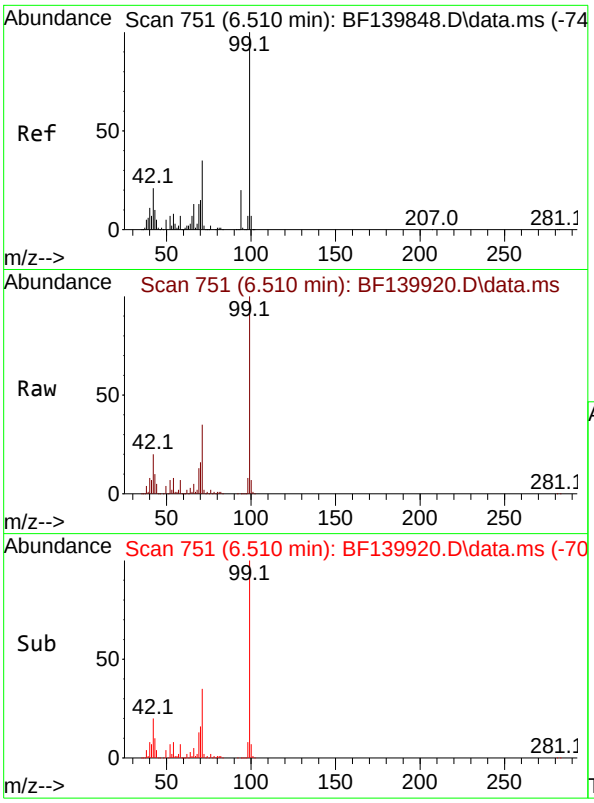




#5
2-Fluorophenol
Concen: 134.553 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

Tgt Ion:112 Resp: 1291484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 64.2 | 53.0 | 79.6 |
| 63 | 33.0 | 27.0 | 40.4 |



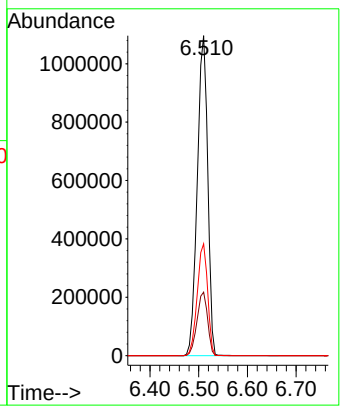


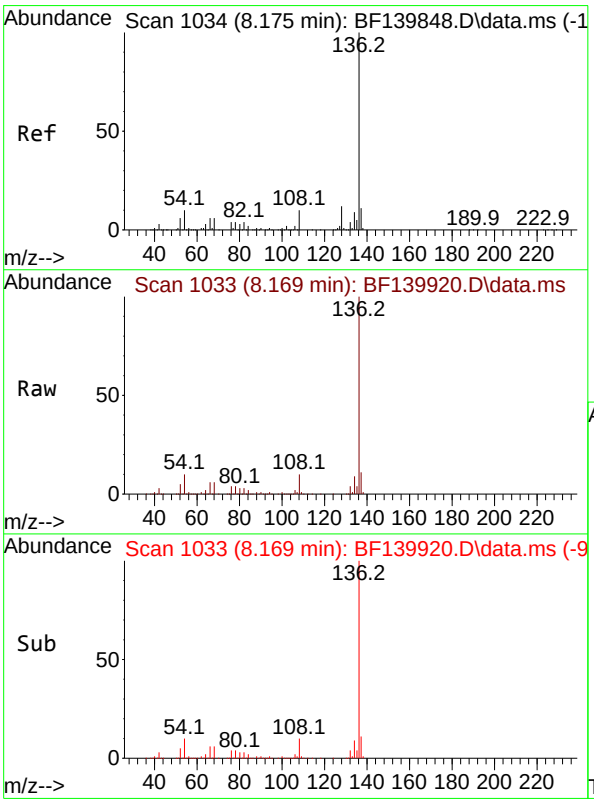

#7
Phenol-d6
Concen: 131.953 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

Tgt Ion: 99 Resp: 1640356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.8 | 16.7 | 25.1 |
| 71 | 35.0 | 27.7 | 41.5 |

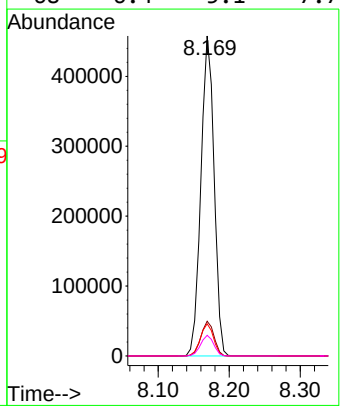


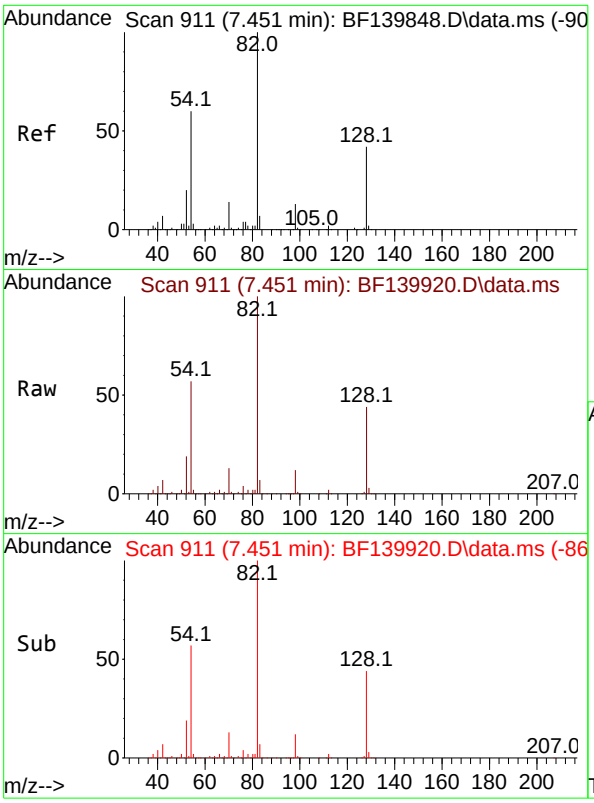




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

Tgt Ion:136 Resp: 593957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 8.6 | 12.8 |
| 54 | 10.1 | 8.4 | 12.6 |
| 68 | 6.4 | 5.1 | 7.7 |



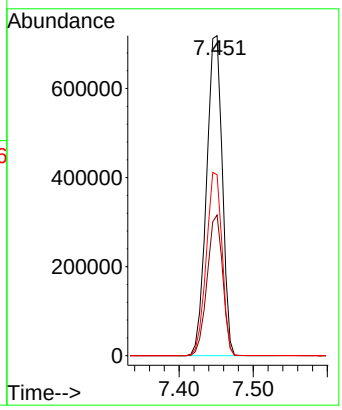


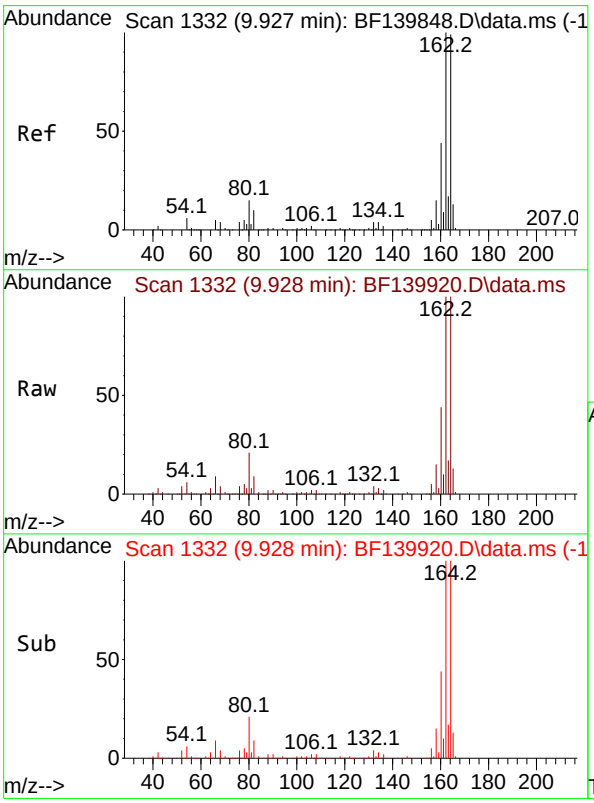

#23
Nitrobenzene-d5
Concen: 98.933 ng
RT: 7.451 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

Tgt Ion: 82 Resp: 1060228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.0 | 33.4 | 50.0 |
| 54 | 56.5 | 47.8 | 71.8 |

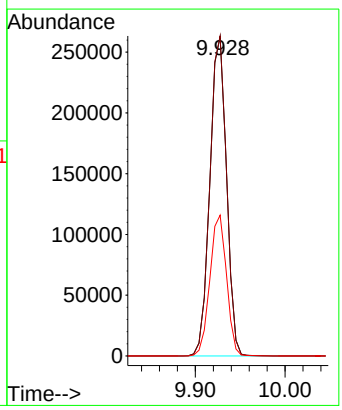


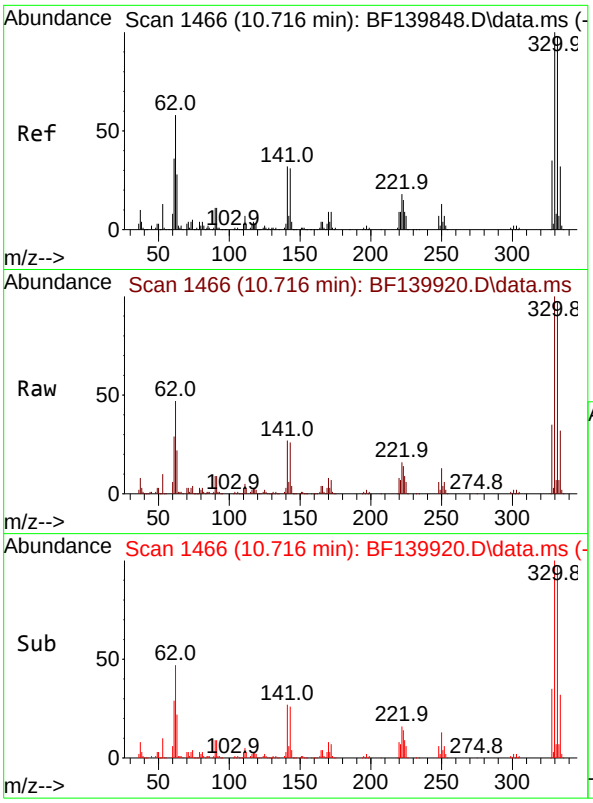




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1332
Delta R.T. 0.001 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

Tgt Ion:164 Resp: 338069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.3 | 81.0 | 121.4 |
| 160 | 44.1 | 35.4 | 53.0 |



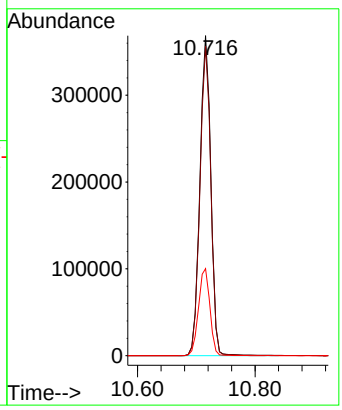


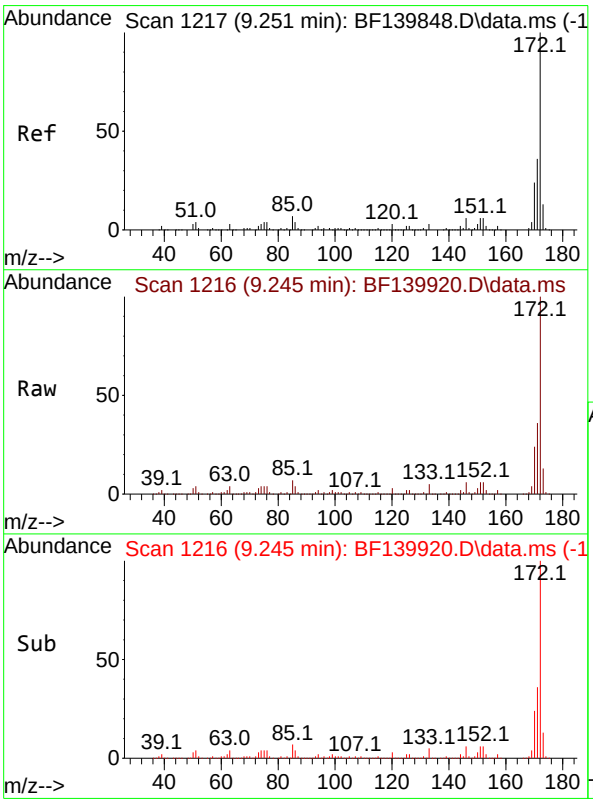

#42
2,4,6-Tribromophenol
Concen: 150.329 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

Tgt Ion:330 Resp: 475370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.8 | 78.1 | 117.1 |
| 141 | 28.4 | 26.6 | 39.8 |

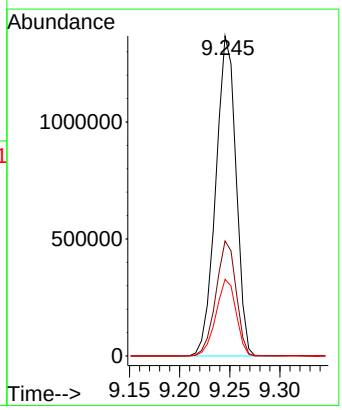


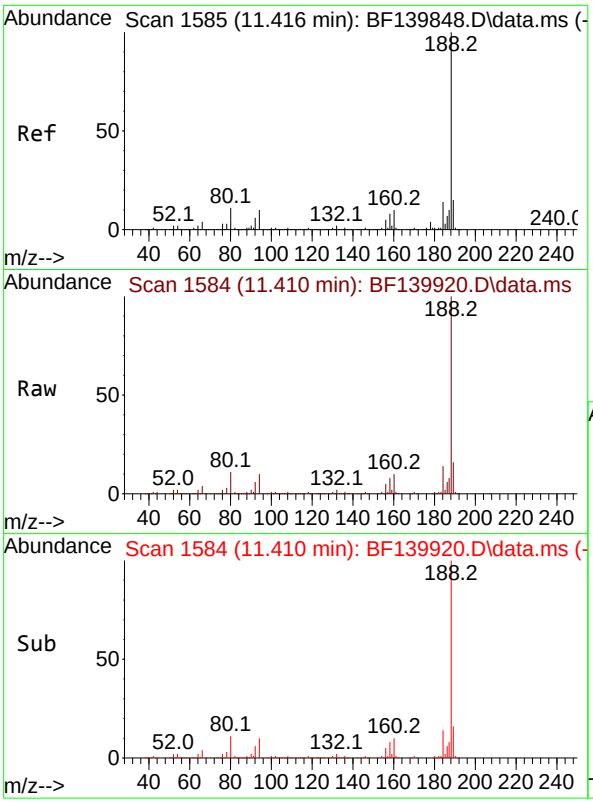




#45
2-Fluorobiphenyl
Concen: 93.607 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

Tgt Ion:172 Resp: 1914793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 28.6 | 43.0 |
| 170 | 23.9 | 19.1 | 28.7 |



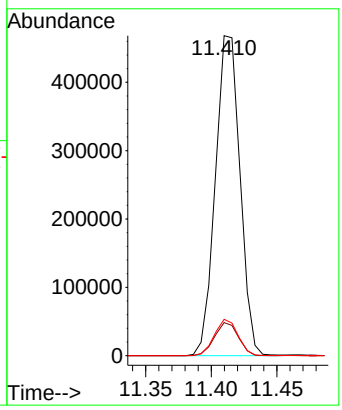


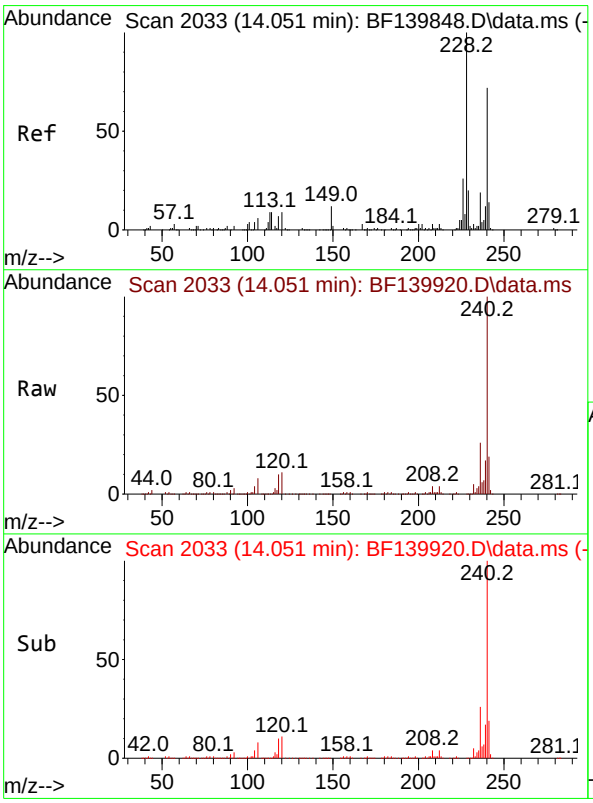

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

Tgt Ion:188 Resp: 611789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.3 | 7.9 | 11.9 |
| 80 | 11.4 | 9.0 | 13.4 |

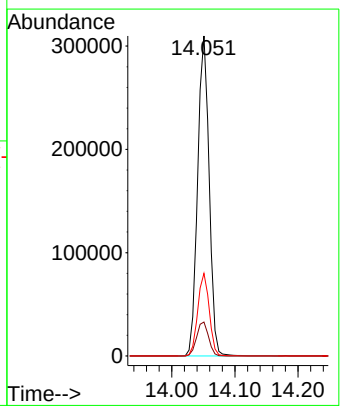


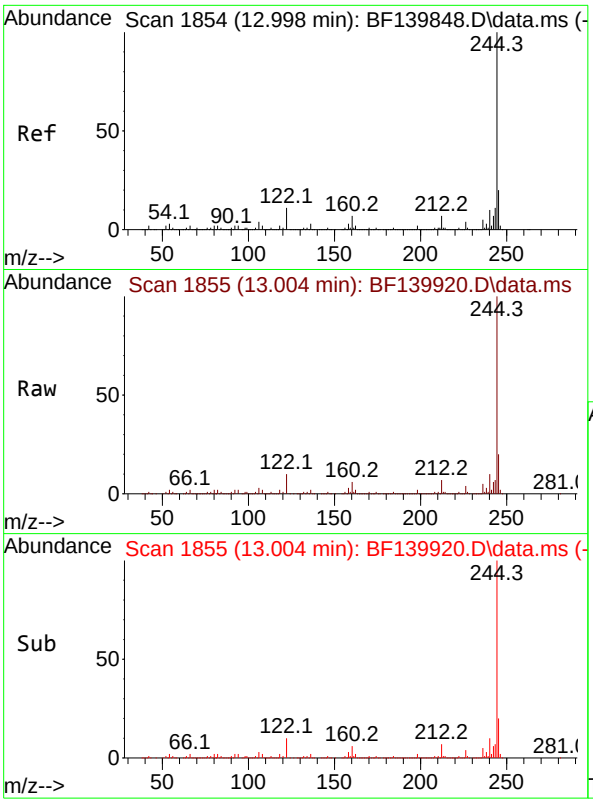




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

Tgt Ion:240 Resp: 390858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.6 | 9.4 | 14.2 |
| 236 | 25.8 | 20.9 | 31.3 |



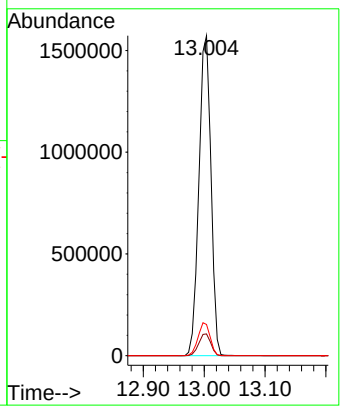


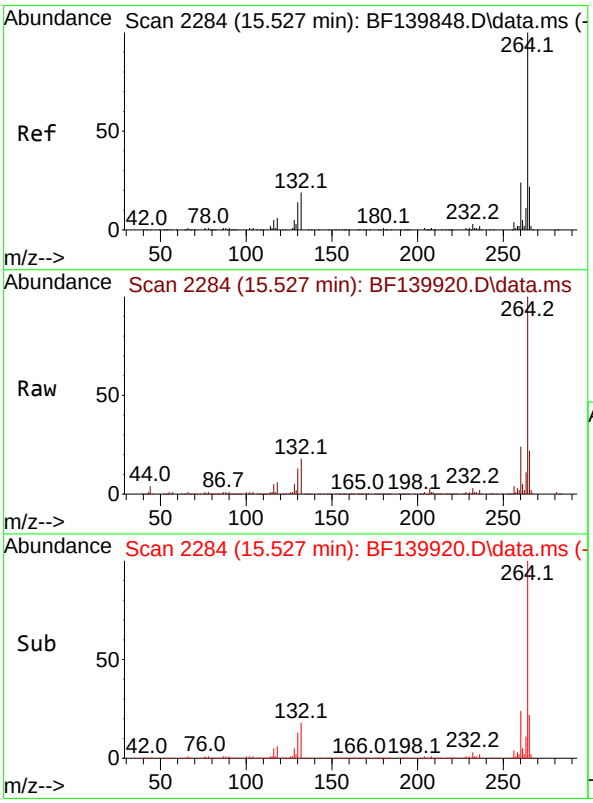

#79
Terphenyl-d14
Concen: 89.996 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

Tgt Ion:244 Resp: 2158698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.8 | 5.7 | 8.5 |
| 122 | 9.8 | 8.6 | 13.0 |

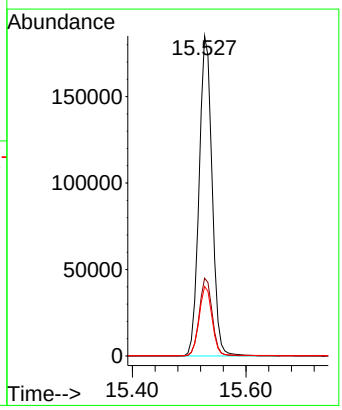



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139920.D
Acq: 22 Oct 2024 11:05

Tgt Ion:264 Resp: 293996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.3 | 19.4 | 29.2 |
| 265 | 21.7 | 17.4 | 26.0 |



Sample Results: **BF139920.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139920.D
Acq On : 22 Oct 2024 11:05
Operator : RC/JU
Sample : PB164071BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

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: BF139920.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 | 13 | 25 | 31 | rVB | 90128 | 172240 | 3.06% | 0.495% |
| 2 | 5.134 | 509 | 517 | 525 | rVB | 210468 | 343705 | 6.10% | 0.987% |
| 3 | 5.516 | 575 | 582 | 587 | rBV | 3294311 | 4733733 | 84.07% | 13.592% |
| 4 | 6.510 | 743 | 751 | 756 | rBV | 3178077 | 4756247 | 84.47% | 13.656% |
| 5 | 6.887 | 810 | 815 | 821 | rVB | 721742 | 917903 | 16.30% | 2.636% |
| 6 | 7.451 | 903 | 911 | 916 | rBV | 2149201 | 3177914 | 56.44% | 9.125% |
| 7 | 8.169 | 1027 | 1033 | 1038 | rBV | 955038 | 1234075 | 21.92% | 3.543% |
| 8 | 9.245 | 1209 | 1216 | 1221 | rBV | 4062098 | 5630935 | 100.00% | 16.168% |
| 9 | 9.928 | 1325 | 1332 | 1337 | rBV | 1110404 | 1436926 | 25.52% | 4.126% |
| 10 | 10.716 | 1459 | 1466 | 1471 | rBV | 2628822 | 3477329 | 61.75% | 9.984% |
| 11 | 11.410 | 1579 | 1584 | 1590 | rBV | 1139657 | 1478572 | 26.26% | 4.245% |
| 12 | 13.004 | 1848 | 1855 | 1860 | rBV | 4036692 | 5600486 | 99.46% | 16.080% |
| 13 | 14.051 | 2027 | 2033 | 2043 | rBV | 854612 | 1087688 | 19.32% | 3.123% |
| 14 | 15.527 | 2278 | 2284 | 2296 | rVB | 494504 | 780502 | 13.86% | 2.241% |

Sum of corrected areas: 34828255

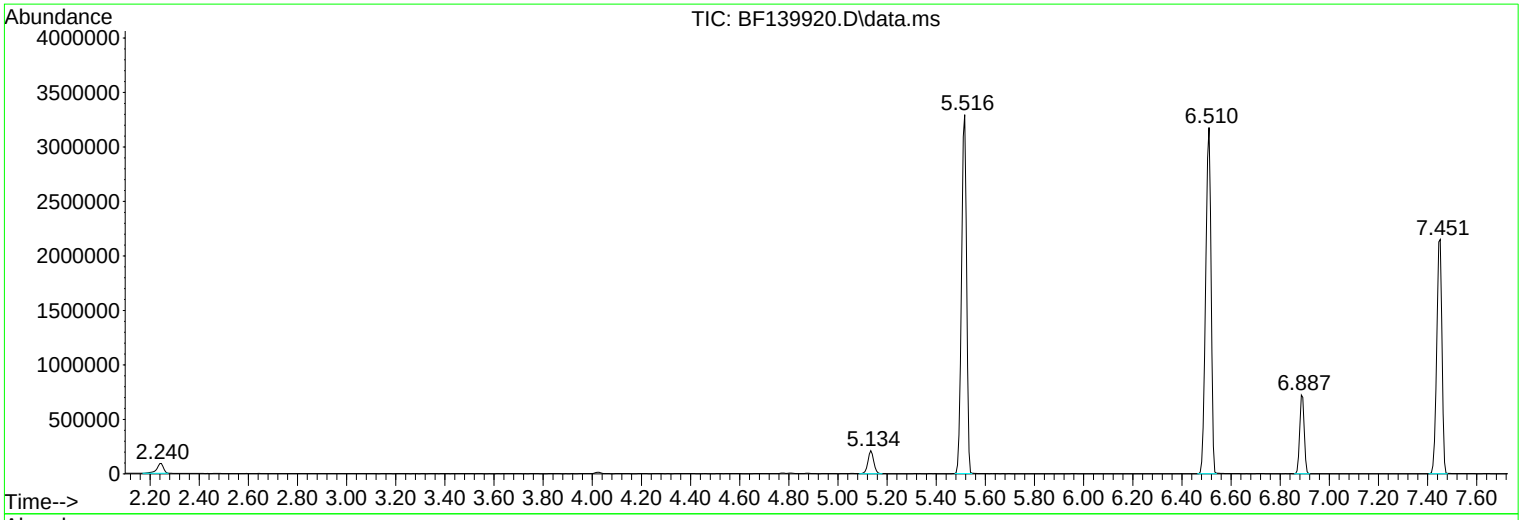
Sample Results: **BF139920.D**

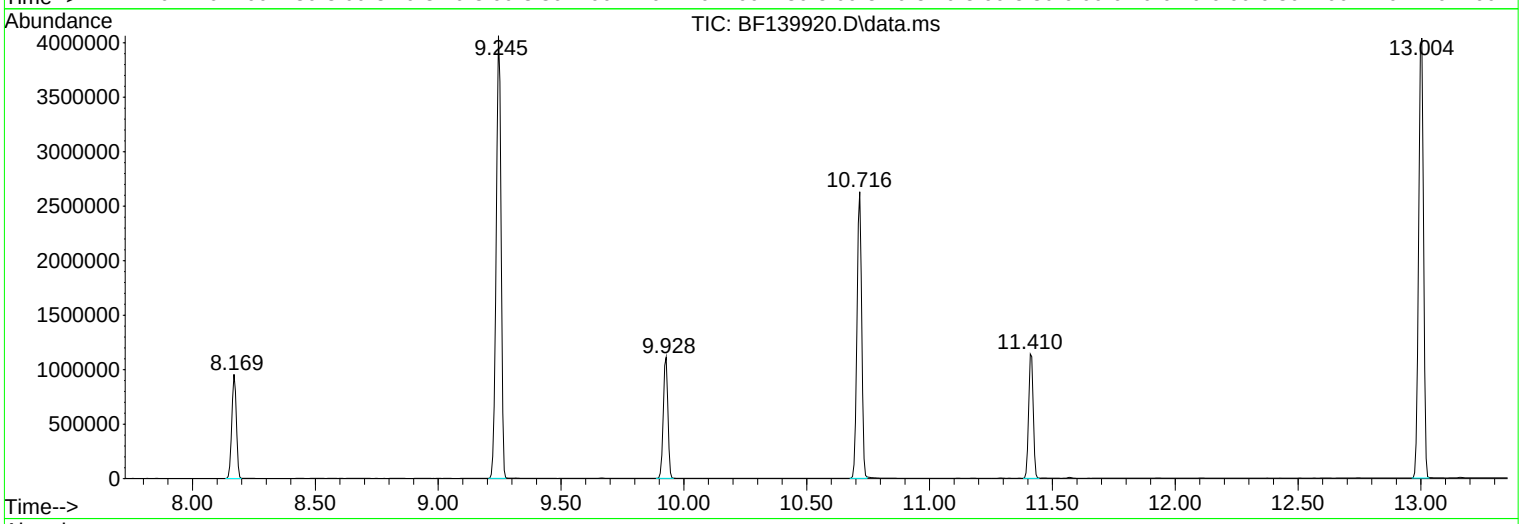
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139920.D
Acq On : 22 Oct 2024 11:05
Operator : RC/JU
Sample : PB164071BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

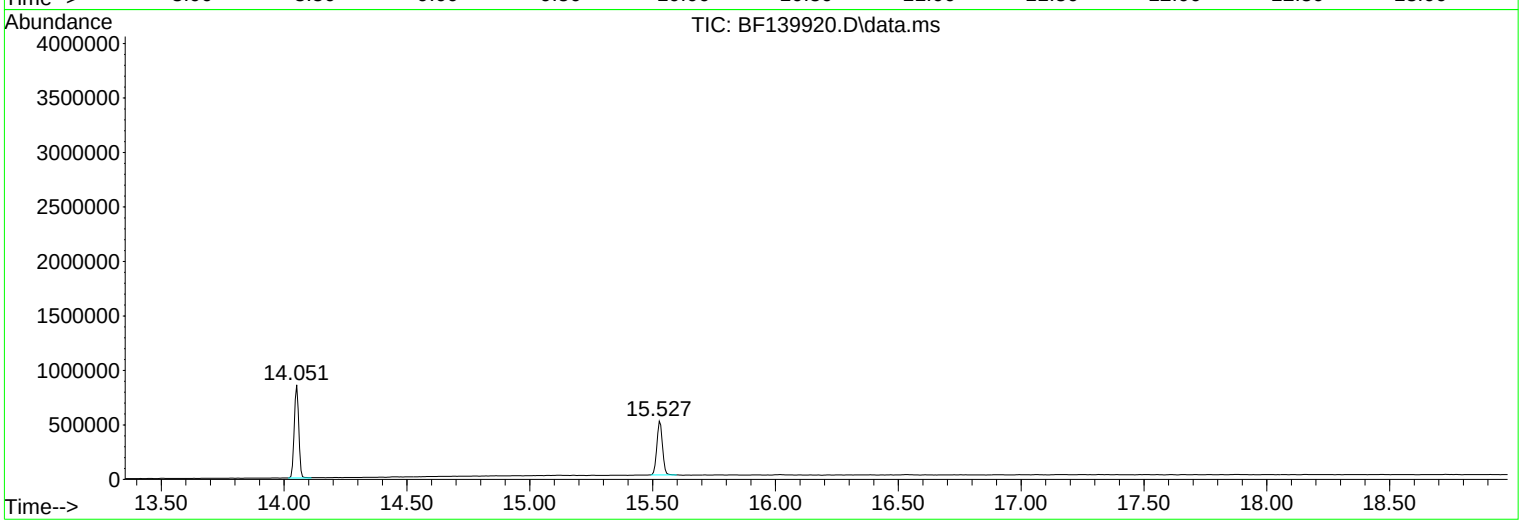
**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

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 : BF139920.D
Acq On : 22 Oct 2024 11:05
Operator : RC/JU
Sample : PB164071BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

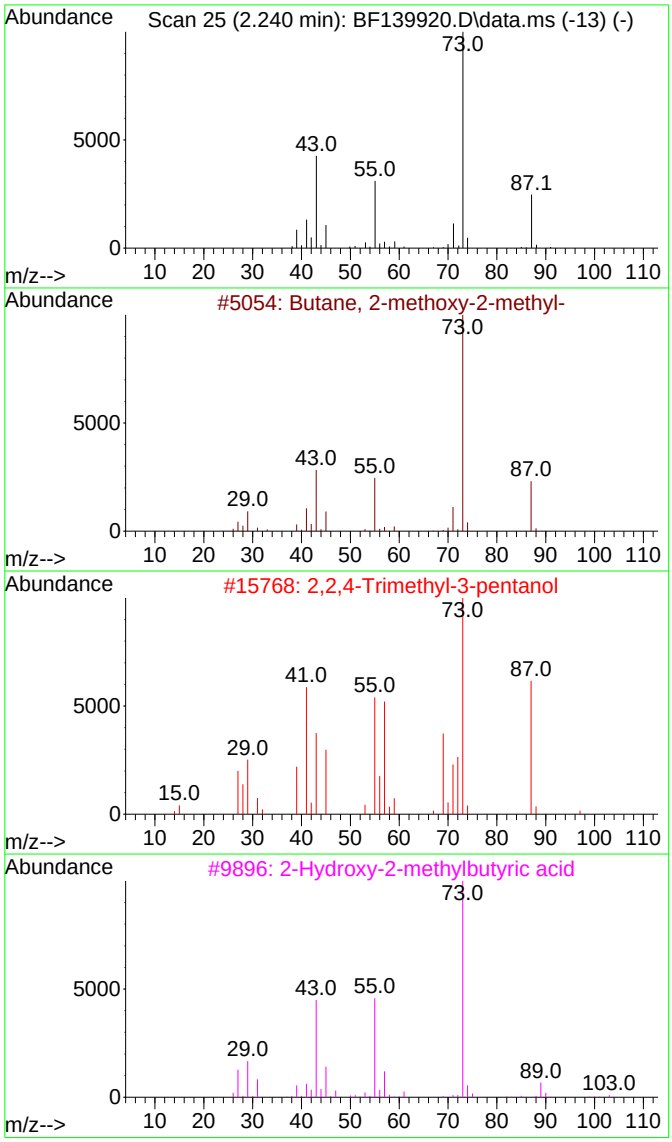
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

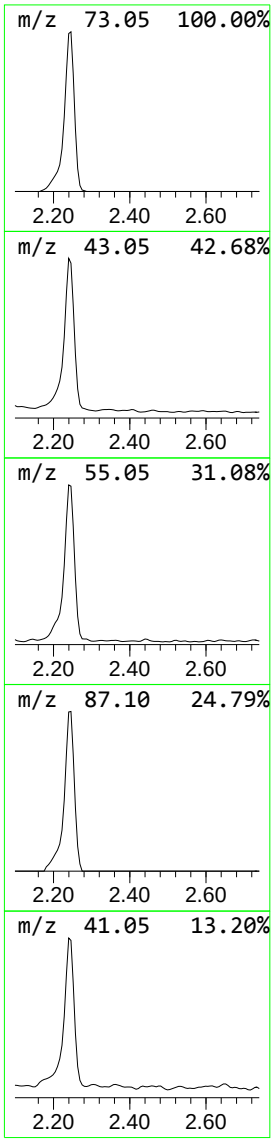
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.240 | 3.75 ng | 172240 | 1,4-Dichlorobenzene-d4 | 6.892 |

| 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 | 2-Hydroxy-2-methylbutyric acid | 118 | C5H10O3 | 003739-30-8 | 25 |
| 4 | Octanal, 7-methoxy-3,7-dimethyl- | 186 | C11H22O2 | 003613-30-7 | 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 : BF139920.D
Acq On : 22 Oct 2024 11:05
Operator : RC/JU
Sample : PB164071BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

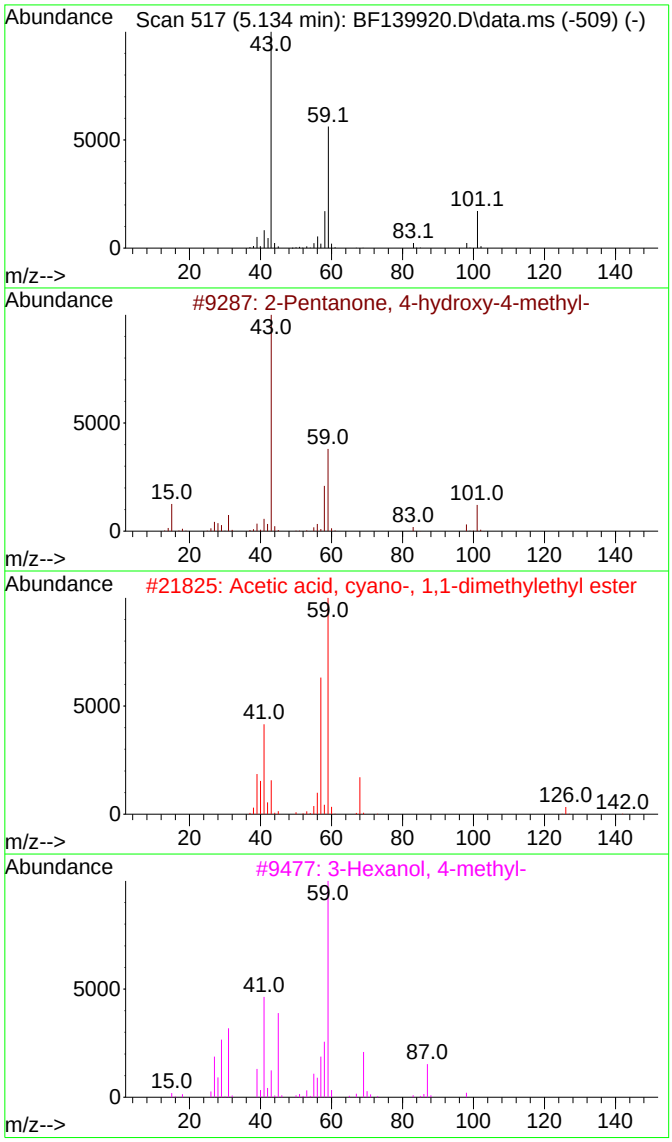
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

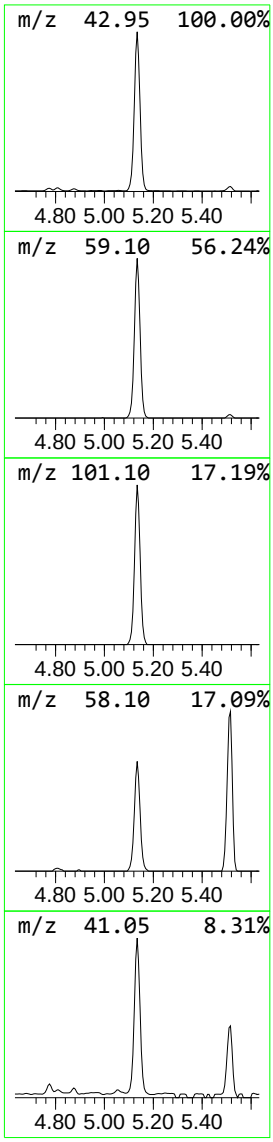
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.134 | 7.49 ng | 343705 | 1,4-Dichlorobenzene-d4 | 6.892 |

| 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, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 37 |
| 3 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 4 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 28 |
| 5 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 12 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139920.D
Acq On : 22 Oct 2024 11:05
Operator : RC/JU
Sample : PB164071BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB164071BL

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 | 3.8 | ng | 172240 | 1 | 6.892 | 917903 | 20.0 |
| 2-Pentanone, 4-... | 5.134 | 7.5 | ng | 343705 | 1 | 6.892 | 917903 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139921.D
Acq On : 22 Oct 2024 11:34
Operator : RC/JU
Sample : PB164071BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 22 12:33:25 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 :**
PB164071BS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/23/2024
Supervised By :mohammad ahmed 10/24/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.893 | 152 | 149304 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 587812 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.934 | 164 | 331508 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 575136 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.057 | 240 | 270065 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.533 | 264 | 308770 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.516 | 112 | 1290423 | 135.304 | ng | | 0.02 |
| 7) Phenol-d6 | 6.516 | 99 | 1632917 | 132.196 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 1048438 | 98.855 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.722 | 330 | 477449 | 153.975 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 1870948 | 93.274 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 1871355 | 112.911 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.763 | 88 | 177304 | 39.873 | ng | | 97 |
| 3) Pyridine | 3.516 | 79 | 473207 | 42.933 | ng | | 97 |
| 4) n-Nitrosodimethylamine | 3.469 | 42 | 270927 | 45.750 | ng | | 97 |
| 6) Aniline | 6.551 | 93 | 491179 | 42.667 | ng | | 99 |
| 8) 2-Chlorophenol | 6.675 | 128 | 501185 | 51.404 | ng | | 98 |
| 9) Benzaldehyde | 6.440 | 77 | 134436 | 19.347 | ng | | 97 |
| 10) Phenol | 6.528 | 94 | 625472m | 49.116 | ng | | |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 485844 | 49.360 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 530272 | 47.379 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 532834 | 47.652 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 518464 | 49.681 | ng | | 98 |
| 15) Benzyl Alcohol | 7.028 | 79 | 465275 | 51.350 | ng | | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 822320 | 48.996 | ng | | 99 |
| 17) 2-Methylphenol | 7.140 | 107 | 419820 | 50.497 | ng | | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 194948 | 48.891 | ng | | 97 |
| 19) n-Nitroso-di-n-propyla... | 7.304 | 70 | 366243 | 48.887 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.293 | 107 | 514385 | 48.372 | ng | # | 82 |
| 22) Acetophenone | 7.298 | 105 | 685459 | 47.610 | ng | | 99 |
| 24) Nitrobenzene | 7.475 | 77 | 547965 | 47.124 | ng | | 99 |
| 25) Isophorone | 7.710 | 82 | 1001892 | 49.772 | ng | | 100 |
| 26) 2-Nitrophenol | 7.787 | 139 | 253829 | 57.863 | ng | | 96 |
| 27) 2,4-Dimethylphenol | 7.822 | 122 | 420514 | 57.489 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 590169 | 48.390 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.028 | 162 | 418284 | 50.204 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.116 | 180 | 436154 | 47.310 | ng | | 100 |
| 31) Naphthalene | 8.198 | 128 | 1448505 | 47.780 | ng | | 100 |
| 32) Benzoic acid | 7.934 | 122 | 317086 | 49.701 | ng | | 97 |
| 33) 4-Chloroaniline | 8.239 | 127 | 206568 | 19.983 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 279670 | 48.282 | ng | | 99 |
| 35) Caprolactam | 8.610 | 113 | 135266m | 51.060 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 456067 | 49.435 | ng | | 98 |
| 37) 2-Methylnaphthalene | 8.887 | 142 | 915743 | 49.322 | ng | | 100 |
| 38) 1-Methylnaphthalene | 8.986 | 142 | 855292 | 46.953 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 423930 | 47.401 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 581876 | 186.982 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.163 | 196 | 322394 | 50.915 | ng | | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139921.D
Acq On : 22 Oct 2024 11:34
Operator : RC/JU
Sample : PB164071BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 22 12:33:25 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 :**
PB164071BS

**Manual Integrations APPROVED**
Reviewed By :Jagrut Upadhyay 10/23/2024
Supervised By :mohammad ahmed 10/24/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.198 | 196 | 319753 | 48.945 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 1106952 | 47.966 | ng | | 100 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 875802 | 47.119 | ng | | 99 |
| 48) 2-Nitroaniline | 9.469 | 65 | 302215 | 53.162 | ng | | 93 |
| 49) Acenaphthylene | 9.792 | 152 | 1377936 | 51.279 | ng | | 99 |
| 50) Dimethylphthalate | 9.651 | 163 | 1034021 | 50.076 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 230480 | 51.551 | ng | | 98 |
| 52) Acenaphthene | 9.963 | 154 | 953212 | 54.836 | ng | | 100 |
| 53) 3-Nitroaniline | 9.875 | 138 | 146340 | 31.740 | ng | | 97 |
| 54) 2,4-Dinitrophenol | 9.986 | 184 | 242958 | 126.649 | ng | # | 1 |
| 55) Dibenzofuran | 10.139 | 168 | 1209353 | 48.489 | ng | | 99 |
| 56) 4-Nitrophenol | 10.034 | 139 | 387313 | 109.189 | ng | | 99 |
| 57) 2,4-Dinitrotoluene | 10.116 | 165 | 310673 | 56.506 | ng | | 98 |
| 58) Fluorene | 10.481 | 166 | 917608 | 48.305 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 270120 | 52.745 | ng | | 98 |
| 60) Diethylphthalate | 10.351 | 149 | 996554 | 49.154 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 466085 | 48.585 | ng | | 99 |
| 62) 4-Nitroaniline | 10.492 | 138 | 223547 | 51.337 | ng | | 97 |
| 63) Azobenzene | 10.633 | 77 | 1028607 | 47.856 | ng | | 97 |
| 65) 4,6-Dinitro-2-methylph... | 10.522 | 198 | 165731 | 70.645 | ng | | 93 |
| 66) n-Nitrosodiphenylamine | 10.592 | 169 | 862616 | 50.112 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.963 | 248 | 302738 | 51.095 | ng | | 95 |
| 68) Hexachlorobenzene | 11.028 | 284 | 336457 | 50.492 | ng | | 97 |
| 69) Atrazine | 11.116 | 200 | 272149 | 58.364 | ng | | 100 |
| 70) Pentachlorophenol | 11.216 | 266 | 416766 | 103.053 | ng | | 99 |
| 71) Phenanthrene | 11.445 | 178 | 1360228 | 50.069 | ng | | 99 |
| 72) Anthracene | 11.492 | 178 | 1383255 | 52.186 | ng | | 100 |
| 73) Carbazole | 11.645 | 167 | 1198727 | 48.627 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.975 | 149 | 1403424 | 49.276 | ng | | 100 |
| 75) Fluoranthene | 12.627 | 202 | 1340657 | 48.816 | ng | | 100 |
| 77) Benzidine | 12.745 | 184 | 237429 | 53.466 | ng | | 98 |
| 78) Pyrene | 12.857 | 202 | 1346251 | 56.949 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 405724 | 57.247 | ng | | 99 |
| 81) Benzo(a)anthracene | 14.045 | 228 | 931291 | 52.973 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 177259 | 34.582 | ng | | 97 |
| 83) Chrysene | 14.080 | 228 | 858190 | 53.241 | ng | | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 478944 | 60.233 | ng | | 100 |
| 85) Di-n-octyl phthalate | 14.645 | 149 | 883366 | 61.078 | ng | | 97 |
| 87) Indeno(1,2,3-cd)pyrene | 17.033 | 276 | 1186119 | 59.712 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.098 | 252 | 963492 | 51.225 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.127 | 252 | 785059 | 48.397 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.474 | 252 | 866062 | 55.959 | ng | | 98 |
| 91) Dibenzo(a,h)anthracene | 17.057 | 278 | 969171 | 58.486 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.492 | 276 | 909062 | 54.921 | ng | | 98 |

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

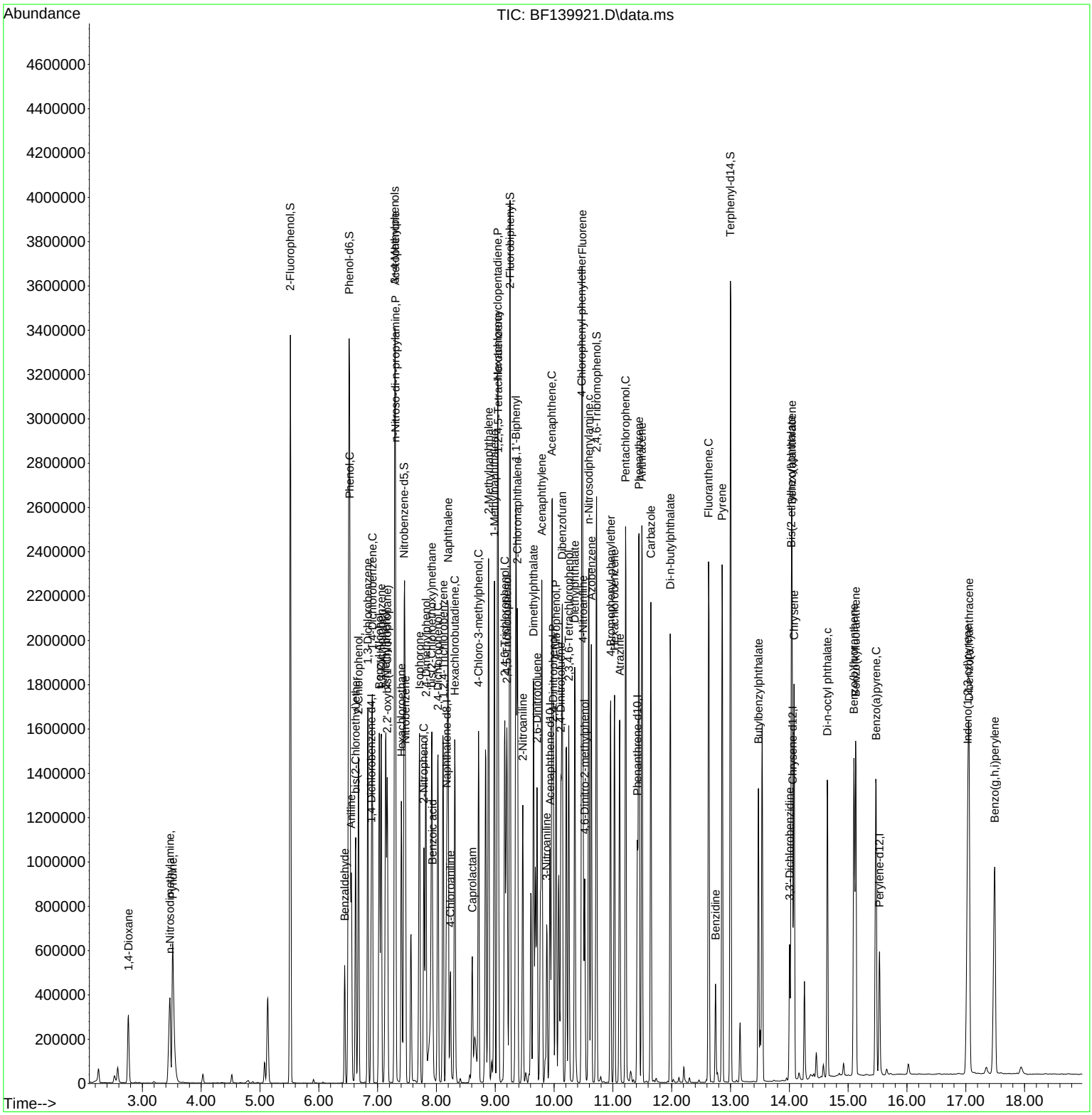
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139921.D
Acq On : 22 Oct 2024 11:34
Operator : RC/JU
Sample : PB164071BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 22 12:33:25 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 :**
PB164071BS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/23/2024
Supervised By :mohammad ahmed 10/24/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139902.D
Acq On : 21 Oct 2024 14:47
Operator : RC/JU
Sample : P4385-06MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 15:12:12 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 :**
SP-3MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/22/2024
Supervised By :mohammad ahmed 10/23/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 159111 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 617785 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.927 | 164 | 335465 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 563658 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.057 | 240 | 294671 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.533 | 264 | 343985 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.516 | 112 | 1171257 | 115.240 | ng | 0.02 |
| 7) Phenol-d6 | 6.510 | 99 | 1490047 | 113.195 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 959444 | 86.075 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.716 | 330 | 383460 | 122.205 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 1686713 | 83.097 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 1523495 | 84.247 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.763 | 88 | 221440 | 46.729 | ng | 96 |
| 3) Pyridine | 3.516 | 79 | 561250 | 47.782 | ng | 98 |
| 4) n-Nitrosodimethylamine | 3.469 | 42 | 318557 | 50.478 | ng | 100 |
| 6) Aniline | 6.551 | 93 | 352627 | 28.743 | ng | 98 |
| 8) 2-Chlorophenol | 6.675 | 128 | 549901 | 52.924 | ng | 97 |
| 9) Benzaldehyde | 6.439 | 77 | 159810 | 21.581 | ng | 98 |
| 10) Phenol | 6.528 | 94 | 713784m | 52.596 | ng | |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 538820 | 51.368 | ng | 99 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 586155 | 49.144 | ng | 98 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 591283 | 49.620 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 563692 | 50.686 | ng | 100 |
| 15) Benzyl Alcohol | 7.028 | 79 | 515039 | 53.339 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 918919 | 51.377 | ng | 99 |
| 17) 2-Methylphenol | 7.134 | 107 | 464117 | 52.384 | ng | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 211189 | 49.700 | ng | 97 |
| 19) n-Nitroso-di-n-propyla... | 7.304 | 70 | 403123 | 50.493 | ng | 98 |
| 20) 3+4-Methylphenols | 7.286 | 107 | 564183 | 49.785 | ng | 93 |
| 22) Acetophenone | 7.298 | 105 | 748474 | 49.464 | ng | 98 |
| 24) Nitrobenzene | 7.469 | 77 | 600690 | 49.152 | ng | 100 |
| 25) Isophorone | 7.710 | 82 | 1084795 | 51.275 | ng | 99 |
| 26) 2-Nitrophenol | 7.786 | 139 | 274244 | 59.483 | ng | 96 |
| 27) 2,4-Dimethylphenol | 7.816 | 122 | 443149 | 57.644 | ng | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 644352 | 50.270 | ng | 100 |
| 29) 2,4-Dichlorophenol | 8.022 | 162 | 450559 | 51.454 | ng | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 474048 | 48.926 | ng | 99 |
| 31) Naphthalene | 8.192 | 128 | 1574222 | 49.408 | ng | 100 |
| 32) Benzoic acid | 7.928 | 122 | 344178 | 51.330 | ng | 97 |
| 33) 4-Chloroaniline | 8.239 | 127 | 113169 | 10.416 | ng | 97 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 299094 | 49.130 | ng | 98 |
| 35) Caprolactam | 8.610 | 113 | 147894m | 53.118 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 489084 | 50.442 | ng | 98 |
| 37) 2-Methylnaphthalene | 8.886 | 142 | 993862 | 50.932 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.986 | 142 | 914744 | 47.780 | ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 456013 | 50.386 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 482538 | 153.232 | ng | 100 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 351206 | 54.811 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139902.D
Acq On : 21 Oct 2024 14:47
Operator : RC/JU
Sample : P4385-06MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 15:12:12 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 :**
SP-3MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/22/2024
Supervised By :mohammad ahmed 10/23/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.198 | 196 | 331813 | 50.192 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 1169824 | 50.093 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 937179 | 49.826 | ng | | 100 |
| 48) 2-Nitroaniline | 9.469 | 65 | 317397 | 55.174 | ng | | 94 |
| 49) Acenaphthylene | 9.792 | 152 | 1451414 | 53.376 | ng | | 99 |
| 50) Dimethylphthalate | 9.651 | 163 | 1096069 | 52.455 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 241717 | 53.427 | ng | | 96 |
| 52) Acenaphthene | 9.963 | 154 | 981249 | 55.783 | ng | | 99 |
| 53) 3-Nitroaniline | 9.875 | 138 | 142253 | 30.490 | ng | | 98 |
| 54) 2,4-Dinitrophenol | 9.980 | 184 | 228598 | 118.216 | ng | # | 1 |
| 55) Dibenzofuran | 10.133 | 168 | 1282825 | 50.828 | ng | | 100 |
| 56) 4-Nitrophenol | 10.027 | 139 | 369013 | 102.803 | ng | | 98 |
| 57) 2,4-Dinitrotoluene | 10.110 | 165 | 317511 | 57.069 | ng | | 99 |
| 58) Fluorene | 10.480 | 166 | 945689 | 49.196 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 274981 | 53.060 | ng | | 97 |
| 60) Diethylphthalate | 10.351 | 149 | 1044323 | 50.902 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 476833 | 49.119 | ng | | 100 |
| 62) 4-Nitroaniline | 10.492 | 138 | 220141 | 49.958 | ng | | 96 |
| 63) Azobenzene | 10.633 | 77 | 1295113 | 59.544 | ng | | 88 |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198 | 155932 | 67.822 | ng | | 97 |
| 66) n-Nitrosodiphenylamine | 10.586 | 169 | 876750 | 51.971 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.963 | 248 | 305519 | 52.615 | ng | | 95 |
| 68) Hexachlorobenzene | 11.022 | 284 | 334639 | 51.241 | ng | | 99 |
| 69) Atrazine | 11.110 | 200 | 283543 | 62.046 | ng | | 99 |
| 70) Pentachlorophenol | 11.216 | 266 | 385813 | 97.342 | ng | | 99 |
| 71) Phenanthrene | 11.439 | 178 | 1372291 | 51.542 | ng | | 100 |
| 72) Anthracene | 11.492 | 178 | 1324889 | 51.002 | ng | | 99 |
| 73) Carbazole | 11.645 | 167 | 1162810 | 48.130 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.974 | 149 | 1448476 | 51.894 | ng | | 100 |
| 75) Fluoranthene | 12.627 | 202 | 1268974 | 47.146 | ng | | 99 |
| 77) Benzidine | 12.745 | 184 | 126669 | 26.142 | ng | | 99 |
| 78) Pyrene | 12.857 | 202 | 1267349 | 49.134 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 488917 | 63.225 | ng | | 100 |
| 81) Benzo(a)anthracene | 14.045 | 228 | 1018819 | 53.113 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 153603 | 27.464 | ng | | 98 |
| 83) Chrysene | 14.080 | 228 | 937944 | 53.330 | ng | | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 604165 | 69.637 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.651 | 149 | 1020553 | 64.672 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 17.027 | 276 | 1051652 | 47.523 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 15.098 | 252 | 1122393 | 53.564 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.127 | 252 | 868103 | 48.038 | ng | | 100 |
| 90) Benzo(a)pyrene | 15.468 | 252 | 962363 | 55.816 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.051 | 278 | 864311 | 46.818 | ng | | 99 |
| 92) Benzo(g,h,i)perylene | 17.480 | 276 | 766144 | 41.548 | ng | | 100 |

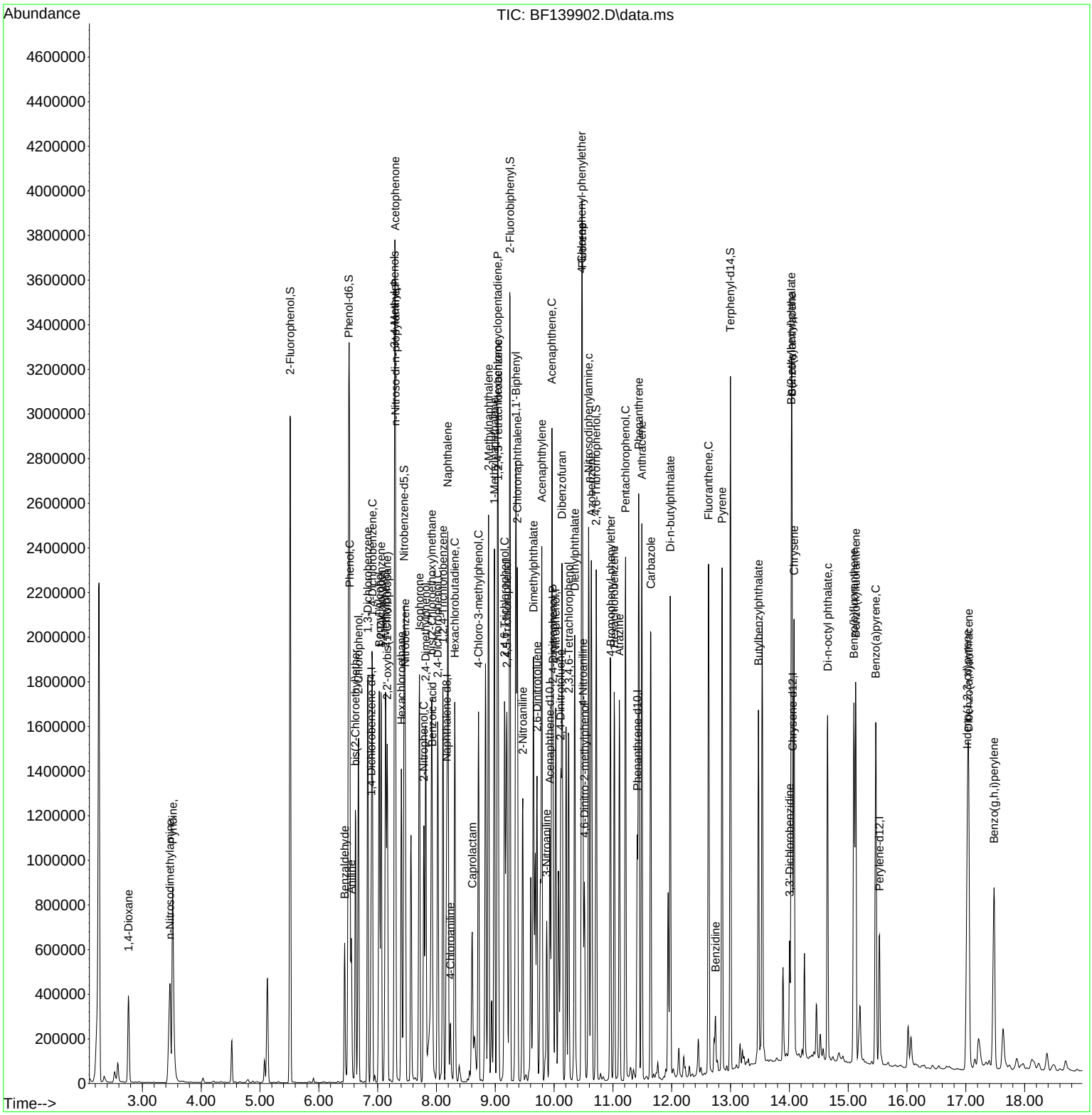
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139902.D
Acq On : 21 Oct 2024 14:47
Operator : RC/JU
Sample : P4385-06MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 15:12:12 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 :**
SP-3MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/22/2024
Supervised By :mohammad ahmed 10/23/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139903.D
Acq On : 21 Oct 2024 15:15
Operator : RC/JU
Sample : P4385-06MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 15:41:49 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 :**
SP-3MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/22/2024
Supervised By :mohammad ahmed 10/23/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.893 | 152 | 163321 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 638402 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 343933 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 570576 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.057 | 240 | 298930 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.533 | 264 | 341306 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.516 | 112 | 1217137 | 116.667 | ng | 0.02 |
| 7) Phenol-d6 | 6.510 | 99 | 1562444 | 115.635 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 1004005 | 87.164 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.722 | 330 | 395137 | 122.826 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 1728221 | 83.046 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 1518139 | 82.754 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.769 | 88 | 228063 | 46.886 | ng | 97 |
| 3) Pyridine | 3.522 | 79 | 577738 | 47.918 | ng | 99 |
| 4) n-Nitrosodimethylamine | 3.475 | 42 | 328170 | 50.661 | ng | 99 |
| 6) Aniline | 6.551 | 93 | 358661 | 28.481 | ng | 97 |
| 8) 2-Chlorophenol | 6.675 | 128 | 577767 | 54.173 | ng | 98 |
| 9) Benzaldehyde | 6.440 | 77 | 168270 | 22.137 | ng | 99 |
| 10) Phenol | 6.528 | 94 | 745044m | 53.484 | ng | |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 565575 | 52.529 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 612426 | 50.023 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 614872 | 50.270 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 595411 | 52.158 | ng | 99 |
| 15) Benzyl Alcohol | 7.028 | 79 | 538497 | 54.331 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 960673 | 52.327 | ng | 99 |
| 17) 2-Methylphenol | 7.134 | 107 | 484216 | 53.244 | ng | 100 |
| 18) Hexachloroethane | 7.404 | 117 | 222977 | 51.121 | ng | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.304 | 70 | 416456 | 50.819 | ng | 98 |
| 20) 3+4-Methylphenols | 7.287 | 107 | 583044 | 50.123 | ng | 94 |
| 22) Acetophenone | 7.298 | 105 | 771816 | 49.360 | ng | 100 |
| 24) Nitrobenzene | 7.469 | 77 | 633055 | 50.127 | ng | 100 |
| 25) Isophorone | 7.710 | 82 | 1143161 | 52.289 | ng | 100 |
| 26) 2-Nitrophenol | 7.787 | 139 | 290123 | 60.895 | ng | 97 |
| 27) 2,4-Dimethylphenol | 7.816 | 122 | 465684 | 58.619 | ng | 100 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 680176 | 51.351 | ng | 100 |
| 29) 2,4-Dichlorophenol | 8.022 | 162 | 472543 | 52.222 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 490878 | 49.026 | ng | 98 |
| 31) Naphthalene | 8.192 | 128 | 1636861 | 49.715 | ng | 100 |
| 32) Benzoic acid | 7.934 | 122 | 371322 | 53.590 | ng | 96 |
| 33) 4-Chloroaniline | 8.240 | 127 | 106463 | 9.483 | ng | 98 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 315778 | 50.195 | ng | 100 |
| 35) Caprolactam | 8.610 | 113 | 156599m | 54.428 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 512994 | 51.199 | ng | 97 |
| 37) 2-Methylnaphthalene | 8.887 | 142 | 1022931 | 50.729 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.987 | 142 | 958193 | 48.433 | ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 472211 | 50.891 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 509293 | 157.746 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 365986 | 55.712 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139903.D
Acq On : 21 Oct 2024 15:15
Operator : RC/JU
Sample : P4385-06MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 15:41:49 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 :**
SP-3MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/22/2024
Supervised By :mohammad ahmed 10/23/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.198 | 196 | 348599 | 51.433 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 1207748 | 50.443 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 976951 | 50.662 | ng | | 99 |
| 48) 2-Nitroaniline | 9.469 | 65 | 335852 | 56.945 | ng | | 94 |
| 49) Acenaphthylene | 9.792 | 152 | 1505400 | 53.998 | ng | | 99 |
| 50) Dimethylphthalate | 9.651 | 163 | 1138290 | 53.134 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 250213 | 53.943 | ng | | 98 |
| 52) Acenaphthene | 9.963 | 154 | 1031445 | 57.193 | ng | | 100 |
| 53) 3-Nitroaniline | 9.875 | 138 | 147184 | 30.770 | ng | | 98 |
| 54) 2,4-Dinitrophenol | 9.981 | 184 | 244925 | 123.246 | ng | # | 1 |
| 55) Dibenzofuran | 10.134 | 168 | 1320686 | 51.040 | ng | | 99 |
| 56) 4-Nitrophenol | 10.034 | 139 | 381655 | 103.707 | ng | | 98 |
| 57) 2,4-Dinitrotoluene | 10.116 | 165 | 326515 | 57.242 | ng | | 98 |
| 58) Fluorene | 10.481 | 166 | 974437 | 49.443 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 284032 | 53.457 | ng | | 98 |
| 60) Diethylphthalate | 10.351 | 149 | 1085654 | 51.614 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 488451 | 49.077 | ng | | 99 |
| 62) 4-Nitroaniline | 10.492 | 138 | 224336 | 49.657 | ng | | 98 |
| 63) Azobenzene | 10.634 | 77 | 1348180 | 60.458 | ng | | 89 |
| 65) 4,6-Dinitro-2-methylph... | 10.522 | 198 | 164102 | 70.510 | ng | | 92 |
| 66) n-Nitrosodiphenylamine | 10.586 | 169 | 914399 | 53.545 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.963 | 248 | 314167 | 53.448 | ng | | 95 |
| 68) Hexachlorobenzene | 11.022 | 284 | 345791 | 52.307 | ng | | 99 |
| 69) Atrazine | 11.116 | 200 | 286426 | 61.917 | ng | | 99 |
| 70) Pentachlorophenol | 11.216 | 266 | 396159 | 98.740 | ng | | 99 |
| 71) Phenanthrene | 11.439 | 178 | 1389005 | 51.537 | ng | | 100 |
| 72) Anthracene | 11.492 | 178 | 1357792 | 51.634 | ng | | 100 |
| 73) Carbazole | 11.645 | 167 | 1174574 | 48.028 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.975 | 149 | 1467314 | 51.931 | ng | | 100 |
| 75) Fluoranthene | 12.627 | 202 | 1278160 | 46.912 | ng | | 99 |
| 77) Benzidine | 12.745 | 184 | 139256 | 28.330 | ng | | 99 |
| 78) Pyrene | 12.857 | 202 | 1284179 | 49.078 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.475 | 149 | 497868 | 63.465 | ng | | 100 |
| 81) Benzo(a)anthracene | 14.045 | 228 | 1024399 | 52.643 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 155200 | 27.354 | ng | | 99 |
| 83) Chrysene | 14.080 | 228 | 957695 | 53.677 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 612765 | 69.622 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.651 | 149 | 1042738 | 65.136 | ng | | 98 |
| 87) Indeno(1,2,3-cd)pyrene | 17.027 | 276 | 1022588 | 46.572 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.098 | 252 | 1120950 | 53.915 | ng | | 100 |
| 89) Benzo(k)fluoranthene | 15.127 | 252 | 916543 | 51.117 | ng | | 100 |
| 90) Benzo(a)pyrene | 15.468 | 252 | 977805 | 57.157 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.051 | 278 | 836229 | 45.653 | ng | | 99 |
| 92) Benzo(g,h,i)perylene | 17.480 | 276 | 736293 | 40.243 | ng | | 99 |

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

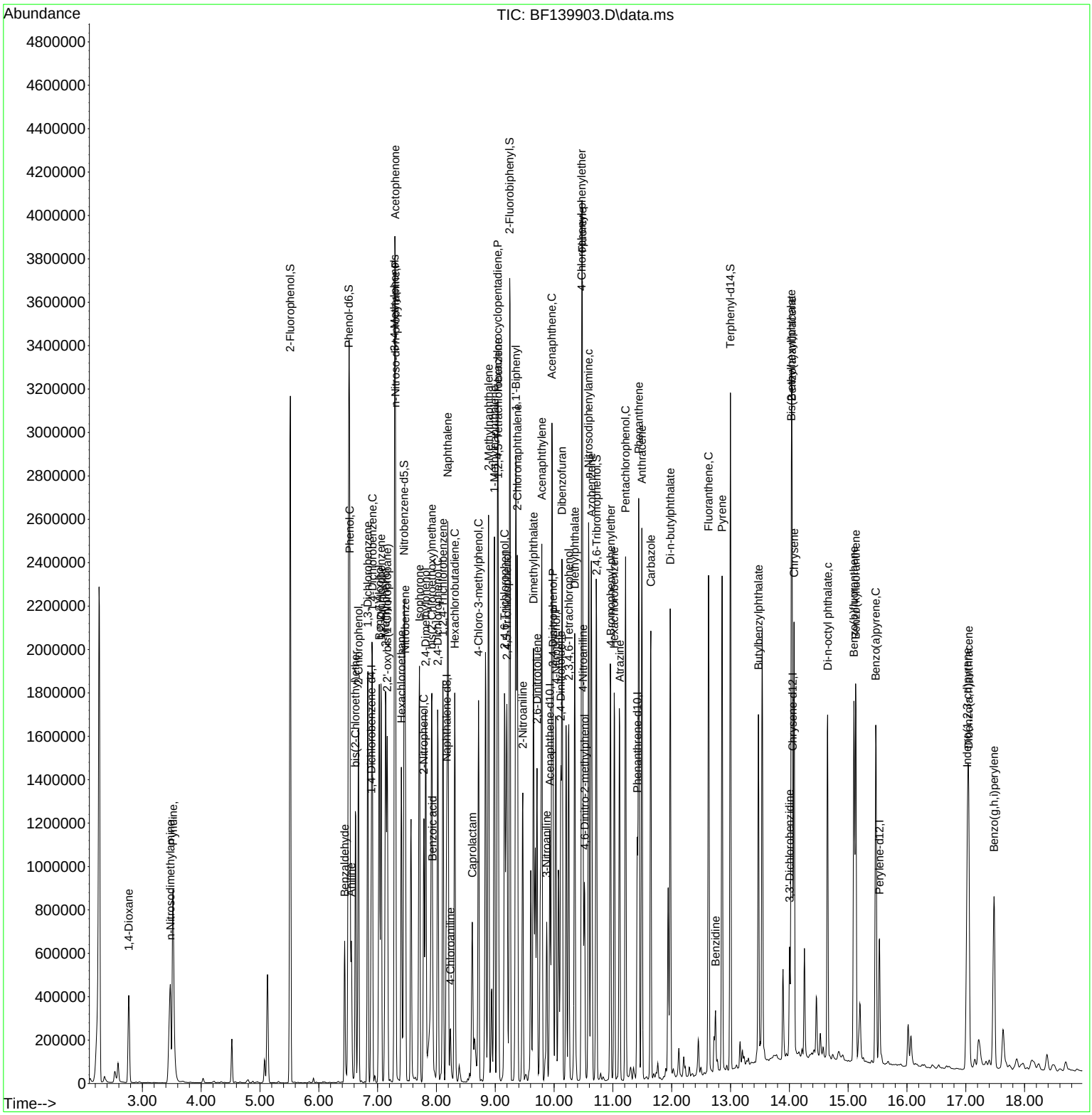
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139903.D
Acq On : 21 Oct 2024 15:15
Operator : RC/JU
Sample : P4385-06MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 15:41:49 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 :**
SP-3MSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :mohammad ahmed 10/23/2024



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

# Manual Integration Report

| Sequence: | BF100124 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC020 | BF139587.D | 2,4-Dimethylphenol | yogesh | 10/2/2024 8:47:02 AM | mohammad | 10/4/2024 1:06:18 AM | Peak Integrated by Software |
| SSTDICC080 | BF139591.D | 2,4-Dimethylphenol | yogesh | 10/2/2024 8:47:07 AM | mohammad | 10/4/2024 1:06:18 AM | Peak Integrated by Software |
| SSTDICC080 | BF139591.D | Caprolactam | yogesh | 10/2/2024 8:47:07 AM | mohammad | 10/4/2024 1:06:18 AM | Peak Integrated by Software |
| SSTDICV040 | BF139592.D | 2,4-Dimethylphenol | yogesh | 10/2/2024 8:47:10 AM | mohammad | 10/4/2024 1:06:18 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | bf101424 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC040 | BF139787.D | Acenaphthene | yogesh | 10/15/2024 5:12:00 AM | mohammad | 10/17/2024 4:47:53 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BF101824 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICCC040 | BF139848.D | Phenol | yogesh | 10/21/2024 6:33:45 AM | mohammad | 10/21/2024 6:38:35 AM | Peak Integrated by Software |
| SSTDICC050 | BF139849.D | Phenol | yogesh | 10/21/2024 6:33:46 AM | mohammad | 10/21/2024 6:38:35 AM | Peak Integrated by Software |
| SSTDICC060 | BF139850.D | Phenol | yogesh | 10/21/2024 6:33:47 AM | mohammad | 10/21/2024 6:38:35 AM | Peak Integrated by Software |
| SSTDICC080 | BF139851.D | Aniline | yogesh | 10/21/2024 6:33:49 AM | mohammad | 10/21/2024 6:38:35 AM | Peak Integrated by Software |
| SSTDICV040 | BF139852.D | Phenol | yogesh | 10/21/2024 6:33:50 AM | mohammad | 10/21/2024 6:38:35 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | 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 |
| P4385-06MS | BF139902.D | Caprolactam | yogesh | 10/22/2024 4:37:42 AM | mohammad | 10/23/2024 4:28:27 AM | Peak Integrated by Software |
| P4385-06MS | BF139902.D | Phenol | yogesh | 10/22/2024 4:37:42 AM | mohammad | 10/23/2024 4:28:27 AM | Peak Integrated by Software |
| P4385-06MSD | BF139903.D | Caprolactam | yogesh | 10/22/2024 4:37:46 AM | mohammad | 10/23/2024 4:28:27 AM | Peak Integrated by Software |
| P4385-06MSD | BF139903.D | Phenol | yogesh | 10/22/2024 4:37:46 AM | mohammad | 10/23/2024 4:28:27 AM | Peak Integrated by Software |

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# 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 |
| PB164071BS | BF139921.D | Caprolactam | Jagrut | 10/23/2024 2:27:32 PM | mohammad | 10/24/2024 1:59:10 AM | Peak Integrated by Software |
| PB164071BS | BF139921.D | Phenol | Jagrut | 10/23/2024 2:27:32 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 |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF100124

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/2/2024 8:47:29 AM | | | | |
| Supervise By | mohammad | Supervise On | 10/4/2024 1:06:18 AM | | | | |
| SubDirectory | BF100124 | HP Acquire Method | BNA_F | | HP Processing Method | bf100124 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12316,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF139583.D | 01 Oct 2024 13:38 | RC/JU | Ok |
| 2 | SSTDICC2.5 | BF139584.D | 01 Oct 2024 14:05 | RC/JU | Ok |
| 3 | SSTDICC005 | BF139585.D | 01 Oct 2024 14:34 | RC/JU | Ok |
| 4 | SSTDICC010 | BF139586.D | 01 Oct 2024 15:02 | RC/JU | Ok |
| 5 | SSTDICC020 | BF139587.D | 01 Oct 2024 15:30 | RC/JU | Ok,M |
| 6 | SSTDICCC040 | BF139588.D | 01 Oct 2024 15:58 | RC/JU | Ok |
| 7 | SSTDICC050 | BF139589.D | 01 Oct 2024 16:25 | RC/JU | Ok |
| 8 | SSTDICC060 | BF139590.D | 01 Oct 2024 16:54 | RC/JU | Ok |
| 9 | SSTDICC080 | BF139591.D | 01 Oct 2024 17:22 | RC/JU | Ok,M |
| 10 | SSTDICV040 | BF139592.D | 01 Oct 2024 17:50 | RC/JU | Ok,M |
| 11 | PB163784BL | BF139593.D | 01 Oct 2024 18:19 | RC/JU | Not Ok |

M : Manual Integration

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF101424

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/15/2024 5:12:21 AM | | | | |
| Supervise By | mohammad | Supervise On | 10/17/2024 4:47:53 AM | | | | |
| SubDirectory | BF101424 | HP Acquire Method | BNA_F | | HP Processing Method | bf100124 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12320,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF139786.D | 14 Oct 2024 12:49 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF139787.D | 14 Oct 2024 14:30 | RC/JU | Ok,M |
| 3 | PB164005BL | BF139788.D | 14 Oct 2024 14:58 | RC/JU | Ok |
| 4 | PB164005BS | BF139789.D | 14 Oct 2024 15:27 | RC/JU | Ok,M |
| 5 | P4375-25 | BF139790.D | 14 Oct 2024 16:00 | RC/JU | Ok |
| 6 | P4375-27 | BF139791.D | 14 Oct 2024 16:29 | RC/JU | Ok |
| 7 | P4375-21 | BF139792.D | 14 Oct 2024 16:58 | RC/JU | Ok |
| 8 | P4375-01 | BF139793.D | 14 Oct 2024 17:27 | RC/JU | Ok |
| 9 | P4258-03 | BF139794.D | 14 Oct 2024 17:56 | RC/JU | Ok |
| 10 | P4375-09 | BF139795.D | 14 Oct 2024 18:25 | RC/JU | Ok |
| 11 | P4375-11 | BF139796.D | 14 Oct 2024 18:54 | RC/JU | Ok |
| 12 | P4359-02RE | BF139797.D | 14 Oct 2024 19:23 | RC/JU | Confirms |
| 13 | P4364-02DL | BF139798.D | 14 Oct 2024 19:52 | RC/JU | Ok,M |
| 14 | P4364-01DL | BF139799.D | 14 Oct 2024 20:21 | RC/JU | Ok,M |
| 15 | P4364-05 | BF139800.D | 14 Oct 2024 20:50 | RC/JU | Ok,M |
| 16 | P4364-14 | BF139801.D | 14 Oct 2024 21:19 | RC/JU | Dilution |
| 17 | P4364-10 | BF139802.D | 14 Oct 2024 21:48 | RC/JU | Ok,M |
| 18 | P4364-09 | BF139803.D | 14 Oct 2024 22:17 | RC/JU | Not Ok |

M : Manual Integration

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/21/2024 6:34:01 AM | | | | |
| Supervise By | mohammad | Supervise On | 10/21/2024 6:38:35 AM | | | | |
| SubDirectory | BF101824 | HP Acquire Method | BNA_F | | HP Processing Method | bf101824 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12322,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF139843.D | 18 Oct 2024 09:22 | RC/JU | Ok |
| 2 | SSTDICC2.5 | BF139844.D | 18 Oct 2024 10:27 | RC/JU | Ok |
| 3 | SSTDICC005 | BF139845.D | 18 Oct 2024 10:55 | RC/JU | Ok |
| 4 | SSTDICC010 | BF139846.D | 18 Oct 2024 11:23 | RC/JU | Ok |
| 5 | SSTDICC020 | BF139847.D | 18 Oct 2024 11:52 | RC/JU | Ok |
| 6 | SSTDICCC040 | BF139848.D | 18 Oct 2024 12:20 | RC/JU | Ok,M |
| 7 | SSTDICC050 | BF139849.D | 18 Oct 2024 12:49 | RC/JU | Ok,M |
| 8 | SSTDICC060 | BF139850.D | 18 Oct 2024 13:17 | RC/JU | Ok,M |
| 9 | SSTDICC080 | BF139851.D | 18 Oct 2024 13:46 | RC/JU | Ok,M |
| 10 | SSTDICV040 | BF139852.D | 18 Oct 2024 14:19 | RC/JU | Ok,M |
| 11 | PB164211BL | BF139853.D | 18 Oct 2024 14:48 | RC/JU | Ok |
| 12 | P4405-01 | BF139854.D | 18 Oct 2024 15:21 | RC/JU | Ok |
| 13 | P4431-01 | BF139855.D | 18 Oct 2024 15:50 | RC/JU | Ok,M |
| 14 | P4421-01 | BF139856.D | 18 Oct 2024 16:18 | RC/JU | Ok,M |
| 15 | P4422-01 | BF139857.D | 18 Oct 2024 16:46 | RC/JU | Ok |
| 16 | P4425-01 | BF139858.D | 18 Oct 2024 17:15 | RC/JU | Ok |
| 17 | P4425-03 | BF139859.D | 18 Oct 2024 17:44 | RC/JU | Ok |
| 18 | P4425-05 | BF139860.D | 18 Oct 2024 18:12 | RC/JU | Ok |
| 19 | P4425-07 | BF139861.D | 18 Oct 2024 18:41 | RC/JU | ReRun |
| 20 | P4425-09 | BF139862.D | 18 Oct 2024 19:09 | RC/JU | ReRun |
| 21 | P4426-03 | BF139863.D | 18 Oct 2024 19:37 | RC/JU | ReRun |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/21/2024 6:34:01 AM | | |
| Supervise By | mohammad | Supervise On | 10/21/2024 6:38:35 AM | | |
| SubDirectory | BF101824 | HP Acquire Method | BNA_F | HP Processing Method | bf101824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12322,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4426-07 | BF139864.D | 18 Oct 2024 20:05 | RC/JU | ReRun |
| 23 | P4426-17 | BF139865.D | 18 Oct 2024 20:34 | RC/JU | ReRun |
| 24 | P4426-11 | BF139866.D | 18 Oct 2024 21:02 | RC/JU | ReRun |

M : Manual Integration

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # 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 |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF100124

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/2/2024 8:47:29 AM | | |
| Supervise By | mohammad | Supervise On | 10/4/2024 1:06:18 AM | | |
| SubDirectory | BF100124 | HP Acquire Method | BNA_F | HP Processing Method | bf100124 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12316,10ul/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 | BF139583.D | 01 Oct 2024 13:38 | | RC/JU | Ok |
| 2 | SSTDICC2.5 | SSTDICC2.5 | BF139584.D | 01 Oct 2024 14:05 | | RC/JU | Ok |
| 3 | SSTDICC005 | SSTDICC005 | BF139585.D | 01 Oct 2024 14:34 | | RC/JU | Ok |
| 4 | SSTDICC010 | SSTDICC010 | BF139586.D | 01 Oct 2024 15:02 | | RC/JU | Ok |
| 5 | SSTDICC020 | SSTDICC020 | BF139587.D | 01 Oct 2024 15:30 | Method is Fail for Com#77 both DOD and NON-DOD | RC/JU | Ok,M |
| 6 | SSTDICCC040 | SSTDICCC040 | BF139588.D | 01 Oct 2024 15:58 | The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method | RC/JU | Ok |
| 7 | SSTDICC050 | SSTDICC050 | BF139589.D | 01 Oct 2024 16:25 | | RC/JU | Ok |
| 8 | SSTDICC060 | SSTDICC060 | BF139590.D | 01 Oct 2024 16:54 | Compound #69 removed from 60ppm | RC/JU | Ok |
| 9 | SSTDICC080 | SSTDICC080 | BF139591.D | 01 Oct 2024 17:22 | Compound #6,69 removed from 80ppm | RC/JU | Ok,M |
| 10 | SSTDICV040 | ICVBF100124 | BF139592.D | 01 Oct 2024 17:50 | | RC/JU | Ok,M |
| 11 | PB163784BL | PB163784BL | BF139593.D | 01 Oct 2024 18:19 | Internal standard not added - Analyzed for Contamination check only. | RC/JU | Not Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF101424

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/15/2024 5:12:21 AM | | |
| Supervise By | mohammad | Supervise On | 10/17/2024 4:47:53 AM | | |
| SubDirectory | BF101424 | HP Acquire Method | BNA_F | HP Processing Method | bf100124 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12320,10ul/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 | BF139786.D | 14 Oct 2024 12:49 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF139787.D | 14 Oct 2024 14:30 | | RC/JU | Ok,M |
| 3 | PB164005BL | PB164005BL | BF139788.D | 14 Oct 2024 14:58 | | RC/JU | Ok |
| 4 | PB164005BS | PB164005BS | BF139789.D | 14 Oct 2024 15:27 | | RC/JU | Ok,M |
| 5 | P4375-25 | FENCE-POST-2 | BF139790.D | 14 Oct 2024 16:00 | | RC/JU | Ok |
| 6 | P4375-27 | FENCE-POST-3 | BF139791.D | 14 Oct 2024 16:29 | | RC/JU | Ok |
| 7 | P4375-21 | CONCRETE-PADS-11 | BF139792.D | 14 Oct 2024 16:58 | | RC/JU | Ok |
| 8 | P4375-01 | CONCRETE-PADS-1 | BF139793.D | 14 Oct 2024 17:27 | | RC/JU | Ok |
| 9 | P4258-03 | Chamberlain Ave | BF139794.D | 14 Oct 2024 17:56 | | RC/JU | Ok |
| 10 | P4375-09 | CONCRETE-PADS-5 | BF139795.D | 14 Oct 2024 18:25 | | RC/JU | Ok |
| 11 | P4375-11 | CONCRETE-PADS-6 | BF139796.D | 14 Oct 2024 18:54 | | RC/JU | Ok |
| 12 | P4359-02RE | EXCAVATION-SOILRE | BF139797.D | 14 Oct 2024 19:23 | Fax is already given | RC/JU | Confirms |
| 13 | P4364-02DL | SB-01-2.5-3.0DL | BF139798.D | 14 Oct 2024 19:52 | | RC/JU | Ok,M |
| 14 | P4364-01DL | SB-01-1.0-1.5DL | BF139799.D | 14 Oct 2024 20:21 | | RC/JU | Ok,M |
| 15 | P4364-05 | SB-02-2.0-2.5 | BF139800.D | 14 Oct 2024 20:50 | | RC/JU | Ok,M |
| 16 | P4364-14 | SB-06-0.167-0.667 | BF139801.D | 14 Oct 2024 21:19 | Need further 5X Dilution | RC/JU | Dilution |
| 17 | P4364-10 | SB-04-0.167-0.667 | BF139802.D | 14 Oct 2024 21:48 | | RC/JU | Ok,M |
| 18 | P4364-09 | SB-03-4.167-4.667 | BF139803.D | 14 Oct 2024 22:17 | There is no Test on login page | RC/JU | Not Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF101424

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/15/2024 5:12:21 AM | | |
| Supervise By | mohammad | Supervise On | 10/17/2024 4:47:53 AM | | |
| SubDirectory | BF101424 | HP Acquire Method | BNA_F | HP Processing Method | bf100124 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12320,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

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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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Fax : 908 789 8922

**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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**EXTRACTION LOGPAGE**

PB164071

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M3541-ASE Extraction-14 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 10/11/2024 |
| **Matrix :** | Solid | | | **Extraction Start Time :** | 09:38 |
| **Weigh By:** | EH | **Extraction By:** | RJ | **Extraction End Date :** | 10/11/2024 |
| **Balance check:** | RJ | **Filter By:** | RJ | **Extraction End Time :** | 12:55 |
| **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 | EP2543 |
| 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 |
| 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 |
|---|---|---|
| 10/11/24 | RP (Ext. Lab) | AC/SVOC |
| 13:00 | **Preparation Group** | **Analysis Group** |

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**EXTRACTION LOGPAGE**

**PrepBatch ID : PB164071**

**Analytical Method:** M3541-ASE Extraction-14 **Concentration Date:** 10/11/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB164071BL | SBLK071 | SVOC-TCL BNA -20 | 30.01 | N/A | ritesh | Evelyn | 1 | | | U1-1 |
| PB164071BS | SLCS071 | SVOC-TCL BNA -20 | 30.03 | N/A | ritesh | Evelyn | 1 | | | 2 |
| P4258-03 | CHAMBERLAIN AVE | SVOC-TCL BNA -20 | 30.02 | N/A | ritesh | Evelyn | 1 | A | | 3 |
| P4385-02 | SP-1 | SVOC-TCL BNA -20 | 30.03 | N/A | ritesh | Evelyn | 1 | B | | 4 |
| P4385-04 | SP-2 | SVOC-TCL BNA -20 | 30.07 | N/A | ritesh | Evelyn | 1 | B | | 5 |
| P4385-06 | SP-3 | SVOC-TCL BNA -20 | 30.06 | N/A | ritesh | Evelyn | 1 | B | | 6 |
| P4385-06MS | SP-3MS | SVOC-TCL BNA -20 | 30.01 | N/A | ritesh | Evelyn | 1 | B | | U5-1 |
| P4385-06MSD | SP-3MSD | SVOC-TCL BNA -20 | 30.05 | N/A | ritesh | Evelyn | 1 | B | | 2 |
| P4385-08 | SP-4 | SVOC-TCL BNA -20 | 30.04 | N/A | ritesh | Evelyn | 1 | B | | 3 |
| P4385-10 | SP-5 | SVOC-TCL BNA -20 | 30.03 | N/A | ritesh | Evelyn | 1 | B | | 4 |
| P4385-12 | SP-6 | SVOC-TCL BNA -20 | 30.09 | N/A | ritesh | Evelyn | 1 | B | | 5 |
| P4385-14 | SP-7 | SVOC-TCL BNA -20 | 30.06 | N/A | ritesh | Evelyn | 1 | B | | 6 |
| P4385-16 | SP-8 | SVOC-TCL BNA -20 | 30.07 | N/A | ritesh | Evelyn | 1 | B | | U7-1 |
| P4385-18 | SP-9 | SVOC-TCL BNA -20 | 30.02 | N/A | ritesh | Evelyn | 1 | B | | 2 |
| P4385-20 | SP-10 | SVOC-TCL BNA -20 | 30.08 | N/A | ritesh | Evelyn | 1 | B | | 3 |

* **Extracts relinquished on the same date as received.**

10/4/24

P4258-03 9:35 10/11 1644071

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P4385 **WorkList ID :** 184330 **Department :** Extraction **Date :** 10-11-2024 08:05:23

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4258-03 | Chamberlain Ave | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | ROMA02 | K21 | 10/01/2024 | 8270E |
| P4385-02 | SP-1 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8270E |
| P4385-04 | SP-2 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8270E |
| P4385-06 | SP-3 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8270E |
| P4385-08 | SP-4 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8270E |
| P4385-10 | SP-5 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8270E |
| P4385-12 | SP-6 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8270E |
| P4385-14 | SP-7 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8270E |
| P4385-16 | SP-8 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8270E |
| P4385-18 | SP-9 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8270E |
| P4385-20 | SP-10 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8270E |



**Date/Time** 10/11/24 9:35
**Raw Sample Received by:** RJ (Ext Lab)
**Raw Sample Relinquished by:** JDCSM



**Date/Time** 10/11/24 10:00
**Raw Sample Received by:** JDCSM
**Raw Sample Relinquished by:** RJ (Ext Lab)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51,K11,K21 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-03** | **Chamberlain Ave** | **SOIL** | | | **10/01/24** | | | **10/01/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 10/11/24 | 10/14/24 | |
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP BNA | 8270E | | 10/03/24 | 10/04/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID :** | | | | | | | | |
| | | | | 0.000 | | | | |
| | | | **Total Svoc :** | | | **0.00** | | |
| | | | **Total Concentration:** | | | **0.00** | | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-04 | 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 |
|---|---|---|---|---|
| BF139655.D | 1 | 10/03/24 11:30 | 10/04/24 14:07 | PB163883 |

| 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 | 138 | | 10 - 139 | 92% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 127 | | 10 - 134 | 84% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 102 | | 49 - 133 | 102% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 99.7 | | 52 - 132 | 100% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 143 | | 44 - 137 | 96% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 95.8 | | 48 - 125 | 96% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 92700 | 6.863 | | | |
| 1146-65-2 | Naphthalene-d8 | 349000 | 8.145 | | | |
| 15067-26-2 | Acenaphthene-d10 | 193000 | 9.898 | | | |
| 1517-22-2 | Phenanthrene-d10 | 361000 | 11.386 | | | |
| 1719-03-5 | Chrysene-d12 | 199000 | 14.021 | | | |
| 1520-96-3 | Perylene-d12 | 201000 | 15.492 | | | |

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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | | | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | | | SDG No.: | P4258 |
| Lab Sample ID: | P4258-04 | | | 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 |
|---|---|---|---|---|
| BF139655.D | 1 | 10/03/24 11:30 | 10/04/24 14:07 | PB163883 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/03/24 |
| Project: | Perth Amboy | Date Received: | 10/03/24 |
| Client Sample ID: | PB163851TB | SDG No.: | P4258 |
| Lab Sample ID: | PB163851TB | 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 |
|---|---|---|---|---|
| BF139646.D | 1 | 10/03/24 11:30 | 10/04/24 09:56 | PB163883 |

| 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 | 141 | | 10 - 139 | 94% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 137 | | 10 - 134 | 91% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 92.1 | | 49 - 133 | 92% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 94.8 | | 52 - 132 | 95% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 134 | | 44 - 137 | 89% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 98.3 | | 48 - 125 | 98% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 87400 | 6.863 | | | |
| 1146-65-2 | Naphthalene-d8 | 333000 | 8.145 | | | |
| 15067-26-2 | Acenaphthene-d10 | 181000 | 9.898 | | | |
| 1517-22-2 | Phenanthrene-d10 | 349000 | 11.386 | | | |
| 1719-03-5 | Chrysene-d12 | 204000 | 14.021 | | | |
| 1520-96-3 | Perylene-d12 | 203000 | 15.492 | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | 10/03/24 |
| Project: | Perth Amboy | | | Date Received: | 10/03/24 |
| Client Sample ID: | PB163851TB | | | SDG No.: | P4258 |
| Lab Sample ID: | PB163851TB | | | 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 |
|---|---|---|---|---|
| BF139646.D | 1 | 10/03/24 11:30 | 10/04/24 09:56 | PB163883 |

| 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.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P4242-04MS | TP-QMS | 2-Fluorophenol | 150 | 135 | 90 | | 10 | 139 |
| | | Phenol-d6 | 150 | 125 | 83 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 94.4 | 94 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 92.7 | 93 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 136 | 91 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 92.3 | 92 | | 48 | 125 |
| P4242-04MSD | TP-QMSD | 2-Fluorophenol | 150 | 131 | 87 | | 10 | 139 |
| | | Phenol-d6 | 150 | 123 | 82 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 95.3 | 95 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 90.8 | 91 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 134 | 90 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 92.5 | 92 | | 48 | 125 |
| P4258-04 | Chamberlain Ave | 2-Fluorophenol | 150 | 138 | 92 | | 10 | 139 |
| | | Phenol-d6 | 150 | 127 | 84 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 102 | 102 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 99.7 | 100 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 143 | 96 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 95.8 | 96 | | 48 | 125 |
| PB163851TB | PB163851TB | 2-Fluorophenol | 150 | 141 | 94 | | 10 | 139 |
| | | Phenol-d6 | 150 | 137 | 91 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 92.1 | 92 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 94.8 | 95 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 134 | 89 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 98.3 | 98 | | 48 | 125 |
| PB163883BL | PB163883BL | 2-Fluorophenol | 150 | 137 | 91 | | 10 | 139 |
| | | Phenol-d6 | 150 | 134 | 89 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 90.3 | 90 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 90.2 | 90 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 130 | 86 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 99.2 | 99 | | 48 | 125 |
| PB163883BS | PB163883BS | 2-Fluorophenol | 150 | 137 | 91 | | 10 | 139 |
| | | Phenol-d6 | 150 | 134 | 89 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 90.9 | 91 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 90.4 | 90 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 135 | 90 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 98.6 | 99 | | 48 | 125 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4242-04MS** | | **Client Sample ID: TP-QMS** | | | | | | **DataFile: BF139649.D** | | | |
| Pyridine | 500 | 0 | 420 | ug/L | 84 | | | | 10 | 109 | |
| 1,4-Dichlorobenzene | 500 | 0 | 470 | ug/L | 94 | | | | 55 | 125 | |
| 2-Methylphenol | 500 | 0 | 490 | ug/L | 98 | | | | 37 | 126 | |
| 3+4-Methylphenols | 500 | 0 | 480 | ug/L | 96 | | | | 31 | 127 | |
| Hexachloroethane | 500 | 0 | 460 | ug/L | 92 | | | | 49 | 110 | |
| Nitrobenzene | 500 | 0 | 460 | ug/L | 92 | | | | 62 | 112 | |
| Hexachlorobutadiene | 500 | 0 | 450 | ug/L | 90 | | | | 52 | 125 | |
| 2,4,6-Trichlorophenol | 500 | 0 | 500 | ug/L | 100 | | | | 78 | 112 | |
| 2,4,5-Trichlorophenol | 500 | 0 | 490 | ug/L | 98 | | | | 71 | 111 | |
| 2,4-Dinitrotoluene | 500 | 0 | 500 | ug/L | 100 | | | | 50 | 142 | |
| Hexachlorobenzene | 500 | 0 | 480 | ug/L | 96 | | | | 72 | 115 | |
| Pentachlorophenol | 1000 | 70.3 | 1000 | ug/L | 93 | | | | 25 | 139 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4242-04MSD** | | **Client Sample ID: TP-QMSD** | | | | | | **DataFile: BF139650.D** | | | |
| Pyridine | 500 | 0 | 410 | ug/L | 82 | 2 | | | 10 | 109 | 20 |
| 1,4-Dichlorobenzene | 500 | 0 | 450 | ug/L | 90 | 4 | | | 55 | 125 | 20 |
| 2-Methylphenol | 500 | 0 | 480 | ug/L | 96 | 2 | | | 37 | 126 | 20 |
| 3+4-Methylphenols | 500 | 0 | 470 | ug/L | 94 | 2 | | | 31 | 127 | 20 |
| Hexachloroethane | 500 | 0 | 460 | ug/L | 92 | 0 | | | 49 | 110 | 20 |
| Nitrobenzene | 500 | 0 | 470 | ug/L | 94 | 2 | | | 62 | 112 | 20 |
| Hexachlorobutadiene | 500 | 0 | 450 | ug/L | 90 | 0 | | | 52 | 125 | 20 |
| 2,4,6-Trichlorophenol | 500 | 0 | 490 | ug/L | 98 | 2 | | | 78 | 112 | 20 |
| 2,4,5-Trichlorophenol | 500 | 0 | 480 | ug/L | 96 | 2 | | | 71 | 111 | 20 |
| 2,4-Dinitrotoluene | 500 | 0 | 490 | ug/L | 98 | 2 | | | 50 | 142 | 20 |
| Hexachlorobenzene | 500 | 0 | 480 | ug/L | 96 | 0 | | | 72 | 115 | 20 |
| Pentachlorophenol | 1000 | 70.3 | 1000 | ug/L | 93 | 0 | | | 25 | 139 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8270E **DataFile:** BF139647.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB163883BS | Pyridine | 50 | 46.6 | ug/L | 93 | | | | 29 | 97 | |
| | 1,4-Dichlorobenzene | 50 | 45.7 | ug/L | 91 | | | | 76 | 103 | |
| | 2-Methylphenol | 50 | 47.8 | ug/L | 96 | | | | 69 | 109 | |
| | 3+4-Methylphenols | 50 | 47.6 | ug/L | 95 | | | | 67 | 106 | |
| | Hexachloroethane | 50 | 46.3 | ug/L | 93 | | | | 76 | 118 | |
| | Nitrobenzene | 50 | 45.4 | ug/L | 91 | | | | 58 | 106 | |
| | Hexachlorobutadiene | 50 | 45.1 | ug/L | 90 | | | | 69 | 101 | |
| | 2,4,6-Trichlorophenol | 50 | 48.2 | ug/L | 96 | | | | 61 | 110 | |
| | 2,4,5-Trichlorophenol | 50 | 46.1 | ug/L | 92 | | | | 70 | 106 | |
| | 2,4-Dinitrotoluene | 50 | 48.7 | ug/L | 97 | | | | 60 | 115 | |
| | Hexachlorobenzene | 50 | 47.2 | ug/L | 94 | | | | 73 | 106 | |
| | Pentachlorophenol | 100 | 87.2 | ug/L | 87 | | | | 47 | 114 | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163883BL

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: BF139645.D Lab Sample ID: PB163883BL

Instrument ID: BNA_F Date Extracted: 10/03/2024

Matrix: (soil/water) water Date Analyzed: 10/04/2024

Level: (low/med) LOW Time Analyzed: 09:29

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB163851TB | PB163851TB | BF139646.D | 10/04/2024 |
| PB163883BS | PB163883BS | BF139647.D | 10/04/2024 |
| Chamberlain Ave | P4258-04 | BF139655.D | 10/04/2024 |
| TP-QMS | P4242-04MS | BF139649.D | 10/04/2024 |
| TP-QMSD | P4242-04MSD | BF139650.D | 10/04/2024 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM SAS No.: P4258 SDG NO.: P4258

Lab File ID: BF139583.D DFTPP Injection Date: 10/01/2024

Instrument ID: BNA_F DFTPP Injection Time: 13:38

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 49.4 |
| 68 | Less than 2.0% of mass 69 | 0.8 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 42.4 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 49.6 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 26.5 |
| 365 | Greater than 1% of mass 198 | 3.2 |
| 441 | Present, but less than mass 443 | 13.6 |
| 442 | Greater than 50% of mass 198 | 86.9 |
| 443 | 15.0 - 24.0% of mass 442 | 16.5 ( 19 ) 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 | BF139584.D | 10/01/2024 | 14:05 |
| SSTDICC005 | SSTDICC005 | BF139585.D | 10/01/2024 | 14:34 |
| SSTDICC010 | SSTDICC010 | BF139586.D | 10/01/2024 | 15:02 |
| SSTDICC020 | SSTDICC020 | BF139587.D | 10/01/2024 | 15:30 |
| SSTDICCC040 | SSTDICCC040 | BF139588.D | 10/01/2024 | 15:58 |
| SSTDICC050 | SSTDICC050 | BF139589.D | 10/01/2024 | 16:25 |
| SSTDICC060 | SSTDICC060 | BF139590.D | 10/01/2024 | 16:54 |
| SSTDICC080 | SSTDICC080 | BF139591.D | 10/01/2024 | 17:22 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM SAS No.: P4258 SDG NO.: P4258

Lab File ID: BF139643.D DFTPP Injection Date: 10/04/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:33

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 47.8 |
| 68 | Less than 2.0% of mass 69 | 0.8 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 41 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.4 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.8 |
| 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 | 27.3 |
| 365 | Greater than 1% of mass 198 | 3.3 |
| 441 | Present, but less than mass 443 | 14.6 |
| 442 | Greater than 50% of mass 198 | 94.9 |
| 443 | 15.0 - 24.0% of mass 442 | 18.5 (19.5) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF139644.D | 10/04/2024 | 09:01 |
| PB163883BL | PB163883BL | BF139645.D | 10/04/2024 | 09:29 |
| PB163851TB | PB163851TB | BF139646.D | 10/04/2024 | 09:56 |
| PB163883BS | PB163883BS | BF139647.D | 10/04/2024 | 10:24 |
| TP-QMS | P4242-04MS | BF139649.D | 10/04/2024 | 11:19 |
| TP-QMSD | P4242-04MSD | BF139650.D | 10/04/2024 | 11:47 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM SAS No.: P4258 SDG NO.: P4258

Lab File ID: BF139651.D DFTPP Injection Date: 10/04/2024

Instrument ID: BNA_F DFTPP Injection Time: 12:15

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 48 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.6 ) 1 |
| 69 | Mass 69 relative abundance | 41.3 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.9 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.9 |
| 275 | 10.0 - 60.0% of mass 198 | 26.5 |
| 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 | 95 |
| 443 | 15.0 - 24.0% of mass 442 | 18.3 (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 | BF139652.D | 10/04/2024 | 12:43 |
| Chamberlain Ave | P4258-04 | BF139655.D | 10/04/2024 | 14:07 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/04/2024

Lab File ID: BF139644.D Time Analyzed: 09:01

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 94914 | 6.869 | 347321 | 8.15 | 190413 | 9.90 |
| | UPPER LIMIT | 189828 | 7.369 | 694642 | 8.651 | 380826 | 10.404 |
| | LOWER LIMIT | 47457 | 6.369 | 173661 | 7.651 | 95206.5 | 9.404 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB163883BL | 93658 | 6.86 | 358600 | 8.15 | 200684 | 9.90 |
| 02 | PB163851TB | 87365 | 6.86 | 332749 | 8.15 | 181182 | 9.90 |
| 03 | PB163883BS | 93801 | 6.86 | 355027 | 8.15 | 196147 | 9.90 |
| 04 | TP-QMS | 90984 | 6.87 | 349150 | 8.15 | 193785 | 9.90 |
| 05 | TP-QMSD | 95221 | 6.87 | 355308 | 8.15 | 201553 | 9.90 |

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.: P4258 SAS No.: P4258 SDG NO.: P4258

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/04/2024

Lab File ID: BF139644.D Time Analyzed: 09:01

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 346153 | 11.386 | 196860 | 14.027 | 223781 | 15.498 |
| | UPPER LIMIT | 692306 | 11.886 | 393720 | 14.527 | 447562 | 15.998 |
| | LOWER LIMIT | 173077 | 10.886 | 98430 | 13.527 | 111891 | 14.998 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB163883BL | 382052 | 11.39 | 212702 | 14.02 | 210145 | 15.49 |
| 02 | PB163851TB | 349179 | 11.39 | 203841 | 14.02 | 202861 | 15.49 |
| 03 | PB163883BS | 367991 | 11.39 | 195485 | 14.03 | 202104 | 15.49 |
| 04 | TP-QMS | 357779 | 11.39 | 197147 | 14.03 | 213541 | 15.50 |
| 05 | TP-QMSD | 366474 | 11.39 | 196941 | 14.03 | 212758 | 15.50 |

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.: P4258 SAS No.: P4258 SDG NO.: P4258

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/04/2024

Lab File ID: BF139652.D Time Analyzed: 12:43

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 | 102462 | 6.863 | 379259 | 8.15 | 208025 | 9.90 |
| | UPPER LIMIT | 204924 | 7.363 | 758518 | 8.651 | 416050 | 10.404 |
| | LOWER LIMIT | 51231 | 6.363 | 189630 | 7.651 | 104013 | 9.404 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | Chamberlain Ave | 92657 | 6.86 | 348932 | 8.15 | 193027 | 9.90 |

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.: P4258 SAS No.: P4258 SDG NO.: P4258

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/04/2024

Lab File ID: BF139652.D Time Analyzed: 12:43

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 | 382146 | 11.386 | 210514 | 14.027 | 230633 | 15.498 |
| | UPPER LIMIT | 764292 | 11.886 | 421028 | 14.527 | 461266 | 15.998 |
| | LOWER LIMIT | 191073 | 10.886 | 105257 | 13.527 | 115317 | 14.998 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | Chamberlain Ave | 361345 | 11.39 | 198886 | 14.02 | 200851 | 15.49 |

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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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | |
| Project: | Perth Amboy | | | Date Received: | |
| Client Sample ID: | PB163883BL | | | SDG No.: | P4258 |
| Lab Sample ID: | PB163883BL | | | 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 |
|---|---|---|---|---|
| BF139645.D | 1 | 10/03/24 11:30 | 10/04/24 09:29 | PB163883 |

| 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 | 137 | | 10 - 139 | 91% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 134 | | 10 - 134 | 89% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 90.3 | | 49 - 133 | 90% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 90.2 | | 52 - 132 | 90% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 130 | | 44 - 137 | 86% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 99.2 | | 48 - 125 | 99% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 93700 | 6.863 | | | |
| 1146-65-2 | Naphthalene-d8 | 359000 | 8.145 | | | |
| 15067-26-2 | Acenaphthene-d10 | 201000 | 9.898 | | | |
| 1517-22-2 | Phenanthrene-d10 | 382000 | 11.386 | | | |
| 1719-03-5 | Chrysene-d12 | 213000 | 14.021 | | | |
| 1520-96-3 | Perylene-d12 | 210000 | 15.492 | | | |

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# Report of Analysis

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | | | |
| Project: | Perth Amboy | | | Date Received: | | | |
| Client Sample ID: | PB163883BL | | | SDG No.: | P4258 | | |
| Lab Sample ID: | PB163883BL | | | 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 |
|---|---|---|---|---|
| BF139645.D | 1 | 10/03/24 11:30 | 10/04/24 09:29 | PB163883 |

| 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: | Roman E&G Corp | | | Date Collected: | |
| Project: | Perth Amboy | | | Date Received: | |
| Client Sample ID: | PB163883BS | | | SDG No.: | P4258 |
| Lab Sample ID: | PB163883BS | | | 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 |
|---|---|---|---|---|
| BF139647.D | 1 | 10/03/24 11:30 | 10/04/24 10:24 | PB163883 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 46.6 | | 1.60 | 5.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 45.7 | | 0.84 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 47.8 | | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 47.6 | | 1.20 | 10.0 | ug/L |
| 67-72-1 | Hexachloroethane | 46.3 | | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 45.4 | | 1.30 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 45.1 | | 1.30 | 5.00 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 48.2 | | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 46.1 | | 1.00 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 48.7 | | 1.50 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 47.2 | | 1.10 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 87.2 | E | 1.90 | 10.0 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 137 | | 10 - 139 | 91% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 134 | | 10 - 134 | 89% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 90.9 | | 49 - 133 | 91% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 90.4 | | 52 - 132 | 90% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 135 | | 44 - 137 | 90% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 98.6 | | 48 - 125 | 99% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 93800 | 6.863 | | | |
| 1146-65-2 | Naphthalene-d8 | 355000 | 8.145 | | | |
| 15067-26-2 | Acenaphthene-d10 | 196000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 368000 | 11.386 | | | |
| 1719-03-5 | Chrysene-d12 | 195000 | 14.027 | | | |
| 1520-96-3 | Perylene-d12 | 202000 | 15.492 | | | |

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# Report of Analysis

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | | | |
| Project: | Perth Amboy | | | Date Received: | | | |
| Client Sample ID: | PB163883BS | | | SDG No.: | P4258 | | |
| Lab Sample ID: | PB163883BS | | | 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 |
|---|---|---|---|---|
| BF139647.D | 1 | 10/03/24 11:30 | 10/04/24 10:24 | PB163883 |

| 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: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | TP-QMS | SDG No.: | P4258 |
| Lab Sample ID: | P4242-04MS | 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 |
|---|---|---|---|---|
| BF139649.D | 1 | 10/03/24 11:30 | 10/04/24 11:19 | PB163883 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 420 | | 15.5 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 470 | | 8.40 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 490 | | 11.3 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 480 | | 11.5 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 460 | | 10.1 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 460 | | 12.7 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 450 | | 12.7 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 500 | | 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 | 500 | | 15.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 480 | | 11.4 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 1000 | E | 18.5 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 135 | | 10 - 139 | 90% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 125 | | 10 - 134 | 83% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 94.4 | | 49 - 133 | 94% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 92.7 | | 52 - 132 | 93% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 136 | | 44 - 137 | 91% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 92.3 | | 48 - 125 | 92% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 91000 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 349000 | 8.145 | | | |
| 15067-26-2 | Acenaphthene-d10 | 194000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 358000 | 11.392 | | | |
| 1719-03-5 | Chrysene-d12 | 197000 | 14.027 | | | |
| 1520-96-3 | Perylene-d12 | 214000 | 15.498 | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | | | Date Received: | 10/01/24 |
| Client Sample ID: | TP-QMS | | | SDG No.: | P4258 |
| Lab Sample ID: | P4242-04MS | | | 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 |
|---|---|---|---|---|
| BF139649.D | 1 | 10/03/24 11:30 | 10/04/24 11:19 | PB163883 |

| 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: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | TP-QMSD | SDG No.: | P4258 |
| Lab Sample ID: | P4242-04MSD | 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 |
|---|---|---|---|---|
| BF139650.D | 1 | 10/03/24 11:30 | 10/04/24 11:47 | PB163883 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 410 | | 15.5 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 450 | | 8.40 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 480 | | 11.3 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 470 | | 11.5 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 460 | | 10.1 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 470 | | 12.7 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 450 | | 12.7 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 490 | | 8.90 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 480 | | 10.1 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 490 | | 15.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 480 | | 11.4 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 1000 | E | 18.5 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 131 | | 10 - 139 | 87% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 123 | | 10 - 134 | 82% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 95.3 | | 49 - 133 | 95% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 90.8 | | 52 - 132 | 91% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 134 | | 44 - 137 | 90% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 92.5 | | 48 - 125 | 92% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 95200 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 355000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 202000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 366000 | 11.386 | | | |
| 1719-03-5 | Chrysene-d12 | 197000 | 14.027 | | | |
| 1520-96-3 | Perylene-d12 | 213000 | 15.498 | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | | | Date Received: | 10/01/24 |
| Client Sample ID: | TP-QMSD | | | SDG No.: | P4258 |
| Lab Sample ID: | P4242-04MSD | | | 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 |
|---|---|---|---|---|
| BF139650.D | 1 | 10/03/24 11:30 | 10/04/24 11:47 | PB163883 |

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

# CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF100124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 02 04:58:47 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139584.D 5 =BF139585.D 10 =BF139586.D 20 =BF139587.D 40 =BF139588.D 50 =BF139589.D 60 =BF139590.D 80 =BF1395
91.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.523 | 0.523 | 0.509 | 0.485 | 0.488 | 0.490 | 0.474 | 0.499 | 3.89 |
| 3) | | Pyridine | | 1.305 | 1.304 | 1.277 | 1.163 | 1.155 | 1.177 | 1.112 | 1.213 | 6.59 |
| 4) | | n-Nitrosodimet... | | 0.820 | 0.790 | 0.797 | 0.783 | 0.784 | 0.802 | 0.782 | 0.794 | 1.72 |
| 5) | S | 2-Fluorophenol | | 1.285 | 1.218 | 1.191 | 1.113 | 1.096 | 1.106 | 1.068 | 1.154 | 6.84 |
| 6) | | Aniline | | 1.562 | 1.492 | 1.462 | 1.276 | 1.243 | 1.226 | | 1.377 | 10.56 |
| 7) | S | Phenol-d6 | | 1.719 | 1.638 | 1.599 | 1.490 | 1.482 | 1.490 | 1.445 | 1.552 | 6.54 |
| 8) | | 2-Chlorophenol | | 1.326 | 1.337 | 1.289 | 1.191 | 1.180 | 1.192 | 1.139 | 1.236 | 6.40 |
| 9) | | Benzaldehyde | | 1.008 | 1.014 | 0.926 | 0.787 | 0.727 | 0.680 | 0.612 | 0.822 | 19.68 |
| 10) | C | Phenol | | 1.798 | 1.748 | 1.691 | 1.602 | 1.548 | 1.570 | 1.464 | 1.632 | 7.27 |
| 11) | | bis(2-Chloroet... | | 1.356 | 1.331 | 1.264 | 1.258 | 1.236 | 1.261 | 1.595 | 1.329 | 9.42 |
| 12) | | 1,3-Dichlorobe... | | 1.527 | 1.477 | 1.450 | 1.346 | 1.330 | 1.339 | 1.266 | 1.391 | 6.78 |
| 13) | C | 1,4-Dichlorobe... | | 1.592 | 1.510 | 1.451 | 1.348 | 1.341 | 1.348 | 1.271 | 1.409 | 8.01 |
| 14) | | 1,2-Dichlorobe... | | 1.469 | 1.429 | 1.393 | 1.278 | 1.256 | 1.241 | 1.175 | 1.320 | 8.33 |
| 15) | | Benzyl Alcohol | | 1.239 | 1.244 | 1.233 | 1.170 | 1.144 | 1.166 | 1.103 | 1.186 | 4.55 |
| 16) | | 2,2'-oxybis(1-... | | 2.573 | 2.446 | 2.391 | 2.225 | 2.186 | 2.202 | 2.075 | 2.300 | 7.60 |
| 17) | | 2-Methylphenol | | 1.105 | 1.073 | 1.068 | 1.010 | 0.992 | 1.005 | 0.972 | 1.032 | 4.80 |
| 18) | | Hexachloroethane | | 0.553 | 0.548 | 0.550 | 0.511 | 0.511 | 0.516 | 0.489 | 0.525 | 4.73 |
| 19) | P | n-Nitroso-di-n... | 1.024 | 1.073 | 1.066 | 1.030 | 0.959 | 0.932 | 0.971 | 0.926 | 0.998 | 5.83 |
| 20) | | 3+4-Methylphenols | | 1.439 | 1.405 | 1.363 | 1.257 | 1.226 | 1.229 | 1.154 | 1.296 | 8.20 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.530 | 0.505 | 0.494 | 0.451 | 0.447 | 0.460 | 0.436 | 0.475 | 7.36 |
| 23) | S | Nitrobenzene-d5 | | 0.420 | 0.411 | 0.406 | 0.382 | 0.382 | 0.391 | 0.373 | 0.395 | 4.43 |
| 24) | | Nitrobenzene | | 0.427 | 0.424 | 0.421 | 0.397 | 0.391 | 0.408 | 0.396 | 0.409 | 3.63 |
| 25) | | Isophorone | | 0.766 | 0.728 | 0.713 | 0.675 | 0.662 | 0.695 | 0.672 | 0.702 | 5.25 |
| 26) | C | 2-Nitrophenol | | 0.174 | 0.172 | 0.181 | 0.178 | 0.175 | 0.179 | 0.172 | 0.176 | 1.99 |
| 27) | | 2,4-Dimethylph... | | 0.228 | 0.224 | 0.218 | 0.206 | 0.209 | 0.216 | 0.206 | 0.215 | 4.10 |
| 28) | | bis(2-Chloroet... | | 0.459 | 0.438 | 0.433 | 0.403 | 0.401 | 0.411 | 0.389 | 0.419 | 5.92 |
| 29) | C | 2,4-Dichloroph... | | 0.300 | 0.295 | 0.293 | 0.275 | 0.266 | 0.276 | 0.261 | 0.281 | 5.42 |
| 30) | | 1,2,4-Trichlor... | | 0.344 | 0.336 | 0.329 | 0.307 | 0.301 | 0.311 | 0.295 | 0.318 | 5.92 |
| 31) | | Naphthalene | | 1.144 | 1.090 | 1.074 | 0.982 | 0.962 | 0.983 | 0.923 | 1.023 | 7.84 |
| 32) | | Benzoic acid | | 0.159 | 0.187 | 0.220 | 0.224 | 0.227 | 0.243 | 0.240 | 0.214 | 14.27 |
| 33) | | 4-Chloroaniline | | 0.382 | 0.367 | 0.361 | 0.340 | 0.330 | 0.333 | 0.310 | 0.346 | 7.21 |
| 34) | C | Hexachlorobuta... | | 0.223 | 0.216 | 0.216 | 0.197 | 0.198 | 0.201 | 0.189 | 0.205 | 6.11 |
| 35) | | Caprolactam | | 0.098 | 0.099 | 0.093 | 0.088 | 0.088 | 0.092 | 0.086 | 0.092 | 5.47 |
| 36) | C | 4-Chloro-3-met... | | 0.345 | 0.335 | 0.331 | 0.303 | 0.300 | 0.312 | 0.299 | 0.318 | 5.88 |
| 37) | | 2-Methylnaphth... | | 0.764 | 0.718 | 0.694 | 0.639 | 0.620 | 0.633 | 0.594 | 0.666 | 9.12 |
| 38) | | 1-Methylnaphth... | | 0.739 | 0.708 | 0.677 | 0.624 | 0.610 | 0.617 | 0.581 | 0.651 | 8.90 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF100124.M



| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.601 | 0.594 | 0.586 | 0.536 | 0.528 | 0.536 | 0.507 | 0.555 | 6.70 |
| 41) | P | Hexachlorocycl... | 0.120 | 0.148 | 0.173 | 0.184 | 0.191 | 0.193 | 0.184 | 0.170 | 15.84 |
| 42) | S | 2,4,6-Tribromo... | 0.212 | 0.208 | 0.200 | 0.187 | 0.182 | 0.186 | 0.177 | 0.193 | 7.11 |
| 43) | C | 2,4,6-Trichlor... | 0.395 | 0.383 | 0.391 | 0.366 | 0.362 | 0.371 | 0.352 | 0.374 | 4.27 |
| 44) | | 2,4,5-Trichlor... | 0.433 | 0.429 | 0.412 | 0.390 | 0.389 | 0.393 | 0.378 | 0.404 | 5.28 |
| 45) | S | 2-Fluorobiphenyl | 1.547 | 1.443 | 1.373 | 1.228 | 1.203 | 1.194 | 1.131 | 1.303 | 11.78 |
| 46) | | 1,1'-Biphenyl | 1.680 | 1.619 | 1.556 | 1.416 | 1.400 | 1.408 | 1.334 | 1.488 | 8.73 |
| 47) | | 2-Chloronaphth... | 1.225 | 1.193 | 1.156 | 1.074 | 1.067 | 1.069 | 1.023 | 1.115 | 6.80 |
| 48) | | 2-Nitroaniline | 0.401 | 0.400 | 0.409 | 0.394 | 0.397 | 0.407 | 0.395 | 0.400 | 1.44 |
| 49) | | Acenaphthylene | 1.889 | 1.832 | 1.784 | 1.632 | 1.615 | 1.609 | 1.510 | 1.696 | 8.22 |
| 50) | | Dimethylphthalate | 1.471 | 1.387 | 1.342 | 1.249 | 1.249 | 1.251 | 1.216 | 1.309 | 7.15 |
| 51) | | 2,6-Dinitrotol... | 0.313 | 0.310 | 0.304 | 0.288 | 0.285 | 0.293 | 0.277 | 0.296 | 4.56 |
| 52) | C | Acenaphthene | 1.279 | 1.237 | 1.207 | 1.126 | 1.115 | 1.122 | 1.064 | 1.164 | 6.67 |
| 53) | | 3-Nitroaniline | 0.326 | 0.319 | 0.314 | 0.293 | 0.291 | 0.293 | 0.278 | 0.302 | 5.84 |
| 54) | P | 2,4-Dinitrophenol | 0.122 | 0.136 | 0.164 | 0.164 | 0.176 | 0.178 | 0.173 | 0.159 | 13.53 |
| 55) | | Dibenzofuran | 1.882 | 1.800 | 1.713 | 1.553 | 1.526 | 1.520 | 1.418 | 1.630 | 10.42 |
| 56) | P | 4-Nitrophenol | 0.230 | 0.233 | 0.237 | 0.228 | 0.231 | 0.236 | 0.218 | 0.230 | 2.71 |
| 57) | | 2,4-Dinitrotol... | 0.408 | 0.416 | 0.406 | 0.380 | 0.377 | 0.372 | 0.348 | 0.387 | 6.27 |
| 58) | | Fluorene | 1.524 | 1.436 | 1.358 | 1.222 | 1.212 | 1.206 | 1.132 | 1.298 | 11.01 |
| 59) | | 2,3,4,6-Tetrac... | 0.358 | 0.338 | 0.339 | 0.315 | 0.314 | 0.320 | 0.299 | 0.326 | 6.12 |
| 60) | | Diethylphthalate | 1.530 | 1.451 | 1.397 | 1.289 | 1.290 | 1.293 | 1.216 | 1.352 | 8.18 |
| 61) | | 4-Chlorophenyl... | 0.750 | 0.728 | 0.689 | 0.607 | 0.604 | 0.605 | 0.564 | 0.650 | 11.10 |
| 62) | | 4-Nitroaniline | 0.340 | 0.326 | 0.323 | 0.298 | 0.298 | 0.299 | 0.280 | 0.309 | 6.77 |
| 63) | | Azobenzene | 1.509 | 1.451 | 1.415 | 1.313 | 1.296 | 1.292 | 1.243 | 1.360 | 7.23 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | 0.095 | 0.105 | 0.114 | 0.120 | 0.116 | 0.123 | 0.117 | 0.113 | 8.71 |
| 66) | c | n-Nitrosodiphe... | 0.653 | 0.623 | 0.609 | 0.568 | 0.559 | 0.569 | 0.546 | 0.590 | 6.66 |
| 67) | | 4-Bromophenyl-... | 0.225 | 0.219 | 0.211 | 0.198 | 0.193 | 0.199 | 0.191 | 0.205 | 6.48 |
| 68) | | Hexachlorobenzene | 0.251 | 0.238 | 0.233 | 0.220 | 0.215 | 0.224 | 0.212 | 0.228 | 6.09 |
| 69) | | Atrazine | 0.189 | 0.185 | 0.164 | 0.132 | 0.121 | | | 0.158 | 19.43 |
| 70) | C | Pentachlorophenol | 0.127 | 0.132 | 0.139 | 0.140 | 0.135 | 0.142 | 0.134 | 0.135 | 3.86 |
| 71) | | Phenanthrene | 1.071 | 1.024 | 0.976 | 0.904 | 0.883 | 0.904 | 0.838 | 0.943 | 8.85 |
| 72) | | Anthracene | 1.078 | 0.987 | 0.978 | 0.896 | 0.875 | 0.884 | 0.833 | 0.933 | 9.09 |
| 73) | | Carbazole | 1.013 | 0.968 | 0.946 | 0.867 | 0.852 | 0.852 | 0.774 | 0.896 | 9.22 |
| 74) | | Di-n-butylphth... | 1.194 | 1.155 | 1.143 | 1.069 | 1.042 | 1.051 | 0.973 | 1.090 | 7.09 |
| 75) | C | Fluoranthene | 1.217 | 1.139 | 1.111 | 0.993 | 0.958 | 0.938 | 0.861 | 1.031 | 12.33 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.478 | 0.458 | 0.335 | 0.346 | 0.240 | 0.244 | 0.369 | 0.353 | 26.36 |
| 78) | | Pyrene | 1.799 | 1.737 | 1.801 | 1.817 | 1.746 | 1.869 | 1.753 | 1.789 | 2.64 |
| 79) | S | Terphenyl-d14 | 1.296 | 1.236 | 1.228 | 1.209 | 1.176 | 1.241 | 1.147 | 1.219 | 3.96 |
| 80) | | Butylbenzylpht... | 0.624 | 0.609 | 0.645 | 0.649 | 0.646 | 0.670 | 0.634 | 0.640 | 3.08 |
| 81) | | Benzo(a)anthra... | 1.476 | 1.348 | 1.331 | 1.252 | 1.274 | 1.300 | 1.224 | 1.315 | 6.33 |
| 82) | | 3,3'-Dichlorob... | 0.440 | 0.421 | 0.414 | 0.395 | 0.370 | 0.393 | 0.383 | 0.402 | 5.98 |
| 83) | | Chrysene | 1.330 | 1.242 | 1.254 | 1.189 | 1.116 | 1.168 | 1.117 | 1.202 | 6.49 |
| 84) | | Bis(2-ethylhex... | 0.748 | 0.746 | 0.796 | 0.816 | 0.813 | 0.849 | 0.823 | 0.799 | 4.84 |
| 85) | c | Di-n-octyl pht... | 1.038 | 1.032 | 1.127 | 1.189 | 1.201 | 1.309 | 1.319 | 1.174 | 9.89 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF100124.M



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.021 | 1.065 | 1.202 | 1.210 | 1.220 | 1.269 | 1.253 | 1.177 | 8.12 |
| 88) | | Benzo(b)fluora... | 1.541 | 1.415 | 1.347 | 1.153 | 1.261 | 1.206 | 1.130 | 1.293 | 11.55 |
| 89) | | Benzo(k)fluora... | 1.122 | 1.177 | 1.191 | 1.126 | 0.998 | 1.039 | 1.025 | 1.097 | 6.97 |
| 90) | C | Benzo(a)pyrene | 1.076 | 1.060 | 1.042 | 0.992 | 0.996 | 0.999 | 0.973 | 1.020 | 3.84 |
| 91) | | Dibenzo(a,h)an... | 0.850 | 0.898 | 0.988 | 1.008 | 1.014 | 1.050 | 1.027 | 0.976 | 7.56 |
| 92) | | Benzo(g,h,i)pe... | 0.833 | 0.865 | 0.993 | 1.020 | 1.015 | 1.066 | 1.062 | 0.979 | 9.50 |

(#) = 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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: BNA_F Calibration Date/Time: 10/04/2024 09:01

Lab File ID: BF139644.D Init. Calib. Date(s): 10/01/2024 10/01/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 14:05 17:22

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Pyridine | 1.213 | 1.278 | | 5.4 | |
| 2-Fluorophenol | 1.154 | 1.152 | | -0.2 | |
| Phenol-d6 | 1.552 | 1.506 | | -3.0 | |
| 1,4-Dichlorobenzene | 1.409 | 1.375 | | -2.4 | 20.0 |
| 2-Methylphenol | 1.032 | 1.000 | | -3.1 | |
| 3+4-Methylphenols | 1.296 | 1.221 | | -5.8 | |
| Nitrobenzene-d5 | 0.395 | 0.380 | | -3.8 | |
| Hexachloroethane | 0.525 | 0.509 | | -3.0 | |
| Nitrobenzene | 0.409 | 0.401 | | -2.0 | |
| Hexachlorobutadiene | 0.205 | 0.200 | | -2.4 | 20.0 |
| 2,4,6-Trichlorophenol | 0.374 | 0.352 | | -5.9 | 20.0 |
| 2-Fluorobiphenyl | 1.303 | 1.257 | | -3.5 | |
| 2,4,5-Trichlorophenol | 0.404 | 0.390 | | -3.5 | |
| 2,4-Dinitrotoluene | 0.387 | 0.380 | | -1.8 | |
| 2,4,6-Tribromophenol | 0.193 | 0.176 | | -8.8 | |
| Hexachlorobenzene | 0.228 | 0.217 | | -4.8 | |
| Pentachlorophenol | 0.135 | 0.126 | | -6.7 | 20.0 |
| Terphenyl-d14 | 1.219 | 1.150 | | -5.7 | |

All other compounds must meet a minimum RRF of 0.010.

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



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: BNA_F Calibration Date/Time: 10/04/2024 12:43

Lab File ID: BF139652.D Init. Calib. Date(s): 10/01/2024 10/01/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 14:05 17:22

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Pyridine | 1.213 | 1.273 | | 4.9 | |
| 2-Fluorophenol | 1.154 | 1.148 | | -0.5 | |
| Phenol-d6 | 1.552 | 1.511 | | -2.6 | |
| 1,4-Dichlorobenzene | 1.409 | 1.365 | | -3.1 | 20.0 |
| 2-Methylphenol | 1.032 | 1.000 | | -3.1 | |
| 3+4-Methylphenols | 1.296 | 1.232 | | -4.9 | |
| Nitrobenzene-d5 | 0.395 | 0.382 | | -3.3 | |
| Hexachloroethane | 0.525 | 0.503 | | -4.2 | |
| Nitrobenzene | 0.409 | 0.399 | | -2.4 | |
| Hexachlorobutadiene | 0.205 | 0.198 | | -3.4 | 20.0 |
| 2,4,6-Trichlorophenol | 0.374 | 0.361 | | -3.5 | 20.0 |
| 2-Fluorobiphenyl | 1.303 | 1.251 | | -4.0 | |
| 2,4,5-Trichlorophenol | 0.404 | 0.398 | | -1.5 | |
| 2,4-Dinitrotoluene | 0.387 | 0.390 | | 0.8 | |
| 2,4,6-Tribromophenol | 0.193 | 0.181 | | -6.2 | |
| Hexachlorobenzene | 0.228 | 0.218 | | -4.4 | |
| Pentachlorophenol | 0.135 | 0.127 | | -5.9 | 20.0 |
| Terphenyl-d14 | 1.219 | 1.139 | | -6.6 | |

All other compounds must meet a minimum RRF of 0.010.

# SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139655.D
Acq On : 04 Oct 2024 14:07
Operator : RC/JU
Sample : P4258-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Quant Time: Oct 04 14:34:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

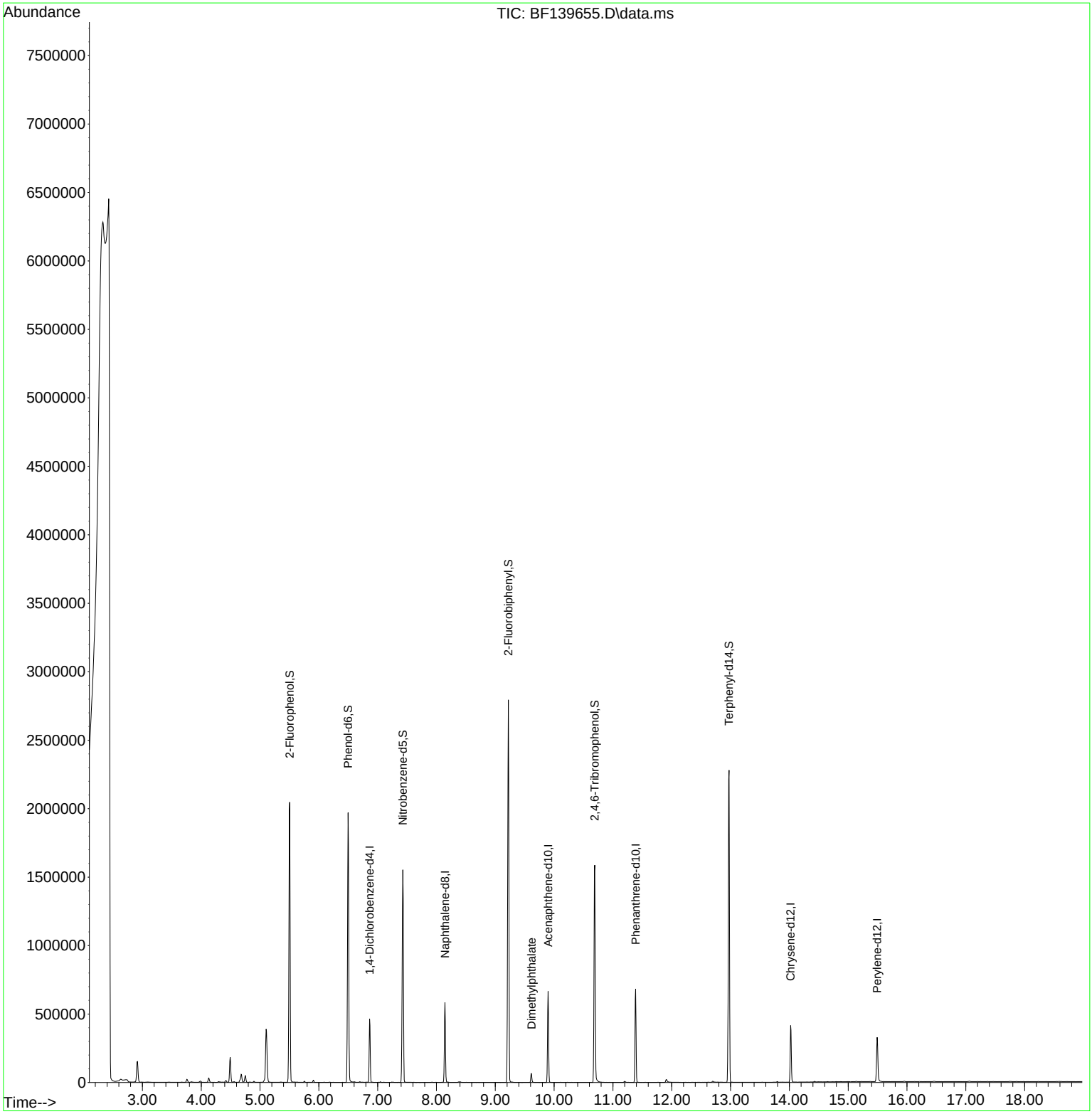
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.863 | 152 | 92657 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.145 | 136 | 348932 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.898 | 164 | 193027 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.386 | 188 | 361345 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.021 | 240 | 198886 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.492 | 264 | 200851 | 20.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 736254 | 137.724 | ng | 0.02 |
| 7) Phenol-d6 | 6.498 | 99 | 909971 | 126.577 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 706180 | 102.467 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.692 | 330 | 267355 | 143.480 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 1253800 | 99.717 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.974 | 244 | 1161176 | 95.798 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 50) Dimethylphthalate | 9.616 | 163 | 39529 | 3.128 | ng | 98 |

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

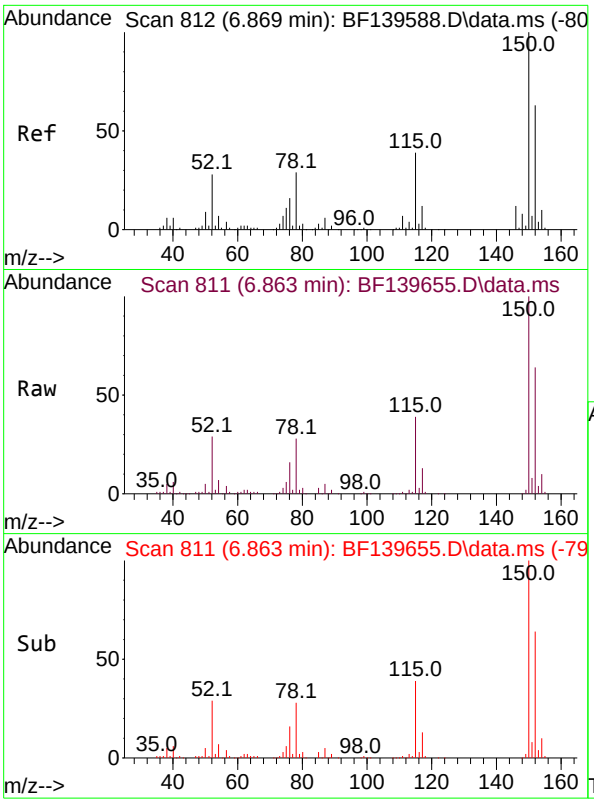
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139655.D
Acq On : 04 Oct 2024 14:07
Operator : RC/JU
Sample : P4258-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Quant Time: Oct 04 14:34:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration



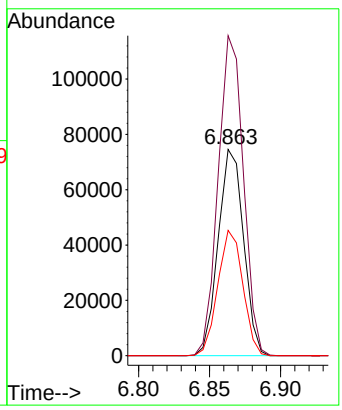
**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

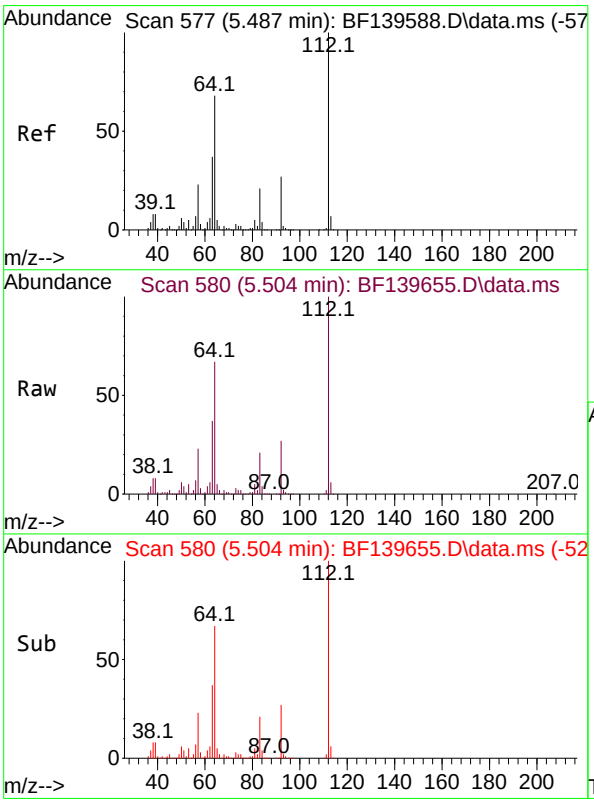



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

Tgt Ion:152 Resp: 92657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.1 | 127.2 | 190.8 |
| 115 | 60.7 | 49.0 | 73.4 |

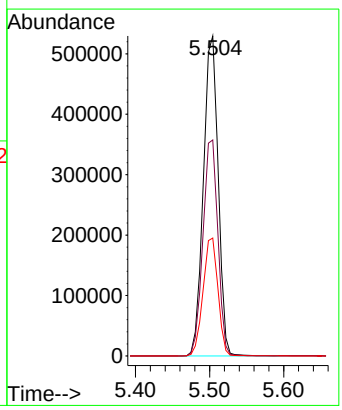


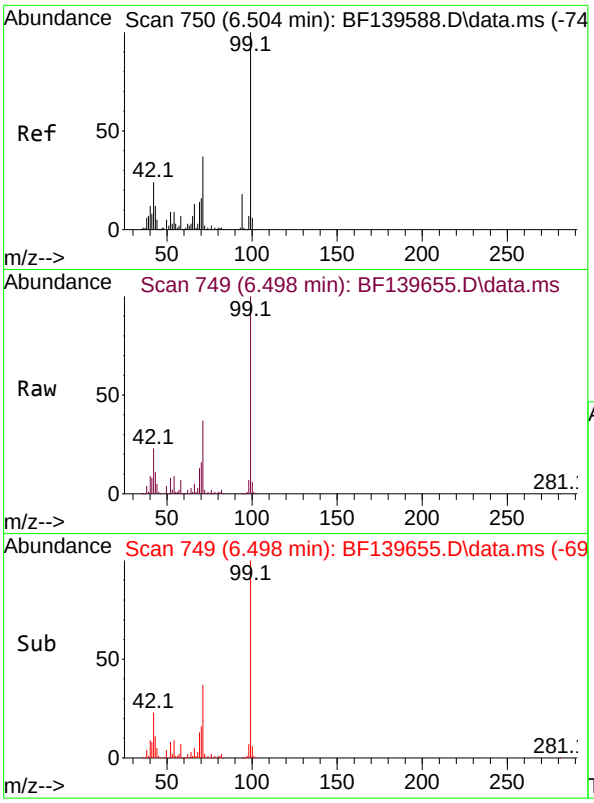

#5
2-Fluorophenol
Concen: 137.724 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.017 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

Tgt Ion:112 Resp: 736254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.5 | 54.2 | 81.4 |
| 63 | 36.9 | 29.4 | 44.2 |



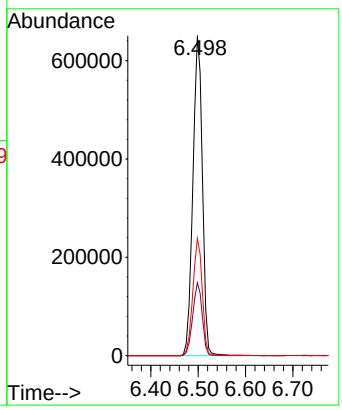
**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

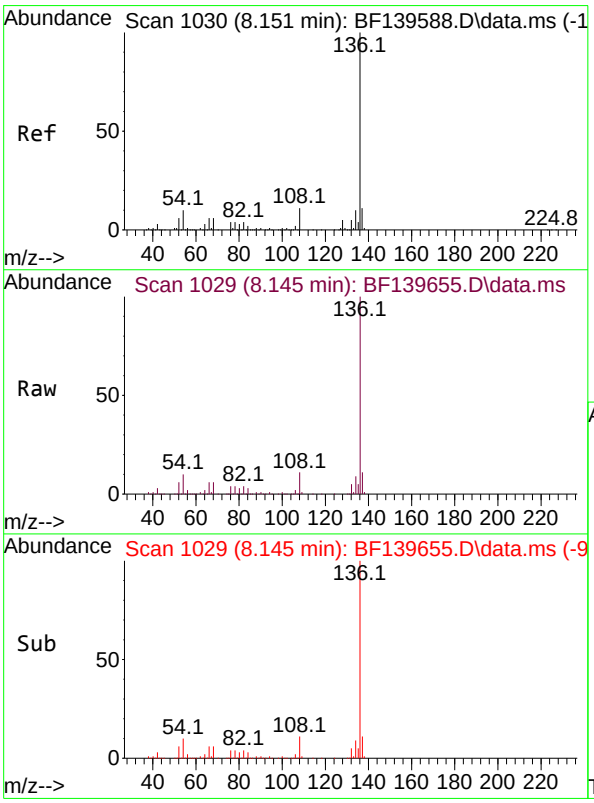



#7
Phenol-d6
Concen: 126.577 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

Tgt Ion: 99 Resp: 909971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.8 | 19.1 | 28.7 |
| 71 | 36.6 | 29.7 | 44.5 |

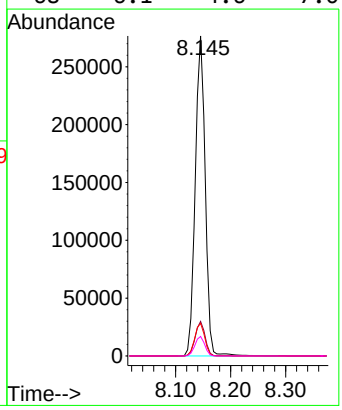


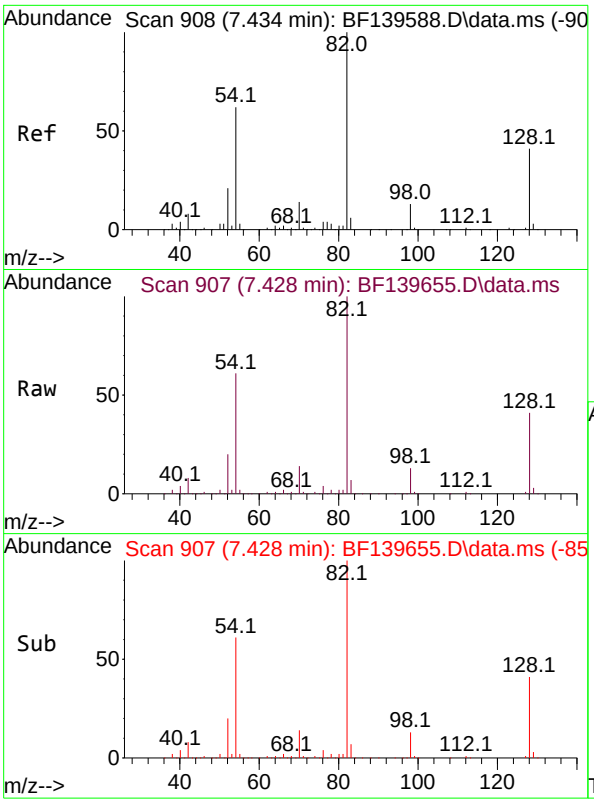




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

Tgt Ion:136 Resp: 348932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 8.6 | 13.0 |
| 54 | 10.2 | 8.3 | 12.5 |
| 68 | 6.1 | 4.6 | 7.0 |



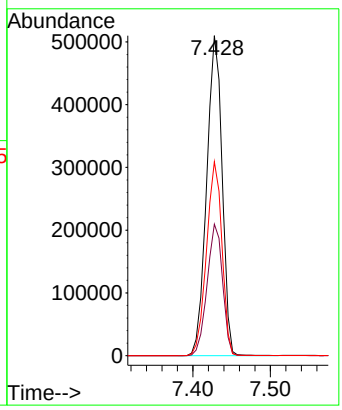


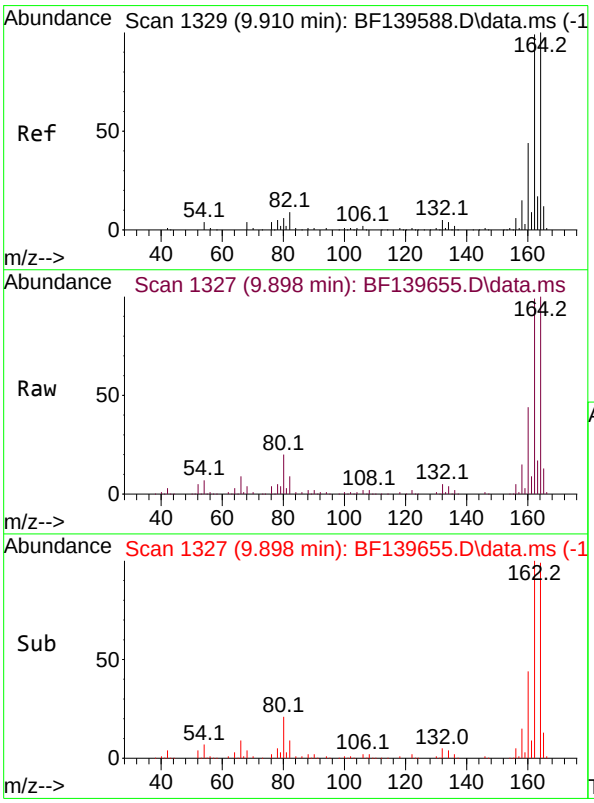

#23
Nitrobenzene-d5
Concen: 102.467 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Tgt Ion: 82 Resp: 706180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.1 | 32.4 | 48.6 |
| 54 | 60.6 | 49.1 | 73.7 |

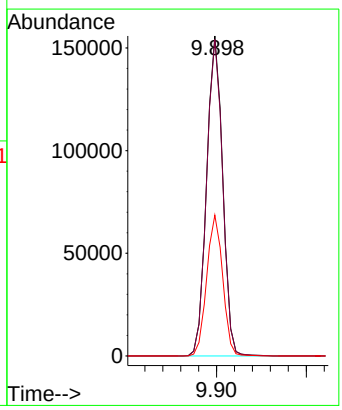


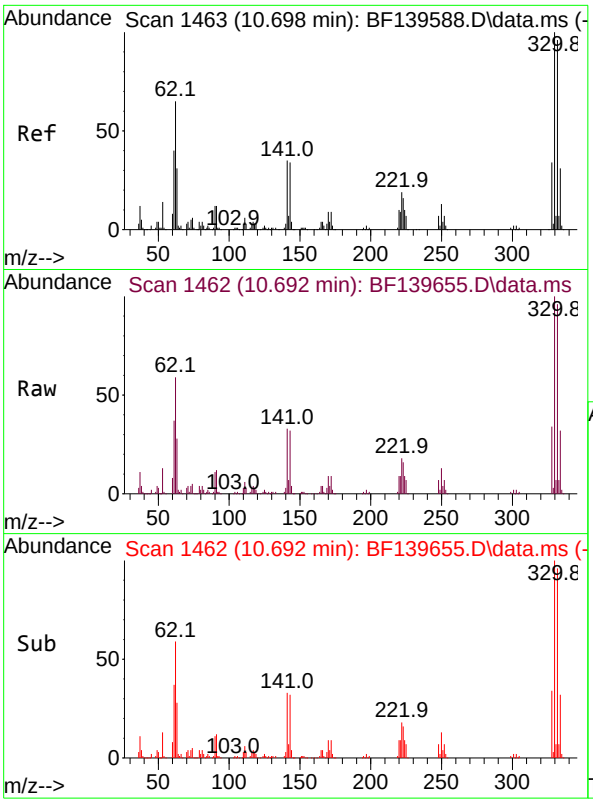

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.012 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

Tgt Ion:164 Resp: 193027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 98.9 | 79.4 | 119.0 |
| 160 | 44.0 | 35.1 | 52.7 |



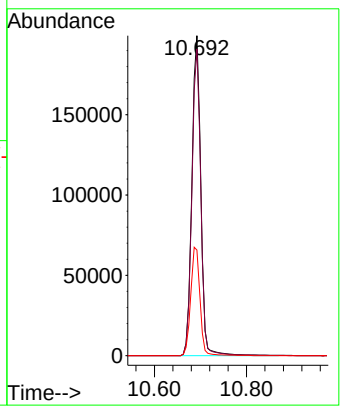
**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

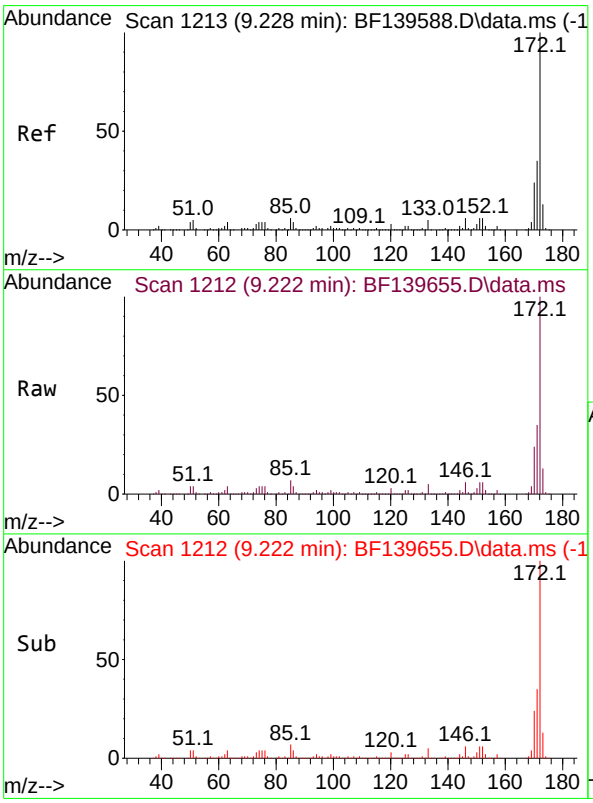



#42
2,4,6-Tribromophenol
Concen: 143.480 ng
RT: 10.692 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

Tgt Ion:330 Resp: 267355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.2 | 76.5 | 114.7 |
| 141 | 35.3 | 29.3 | 43.9 |

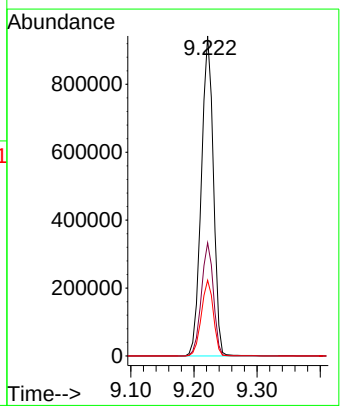


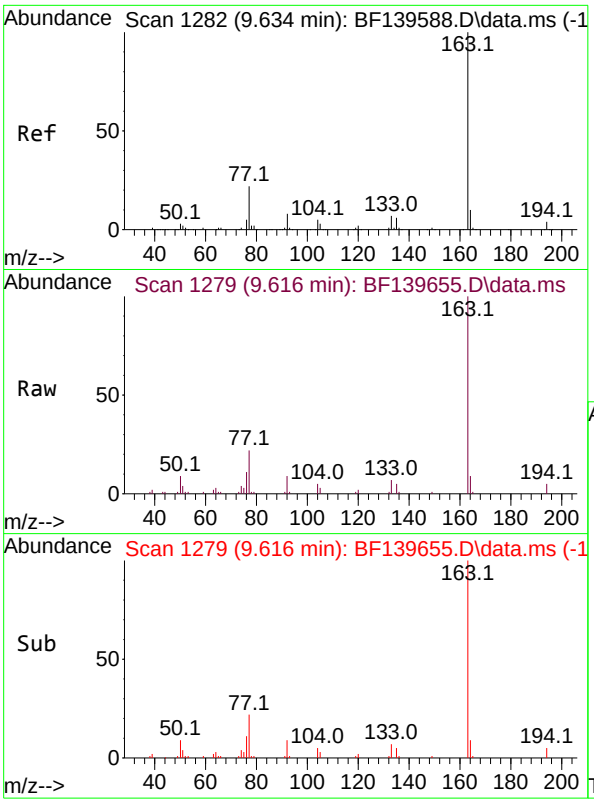

#45
2-Fluorobiphenyl
Concen: 99.717 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.006 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

Tgt Ion:172 Resp: 1253800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.4 | 28.2 | 42.4 |
| 170 | 23.7 | 18.8 | 28.2 |



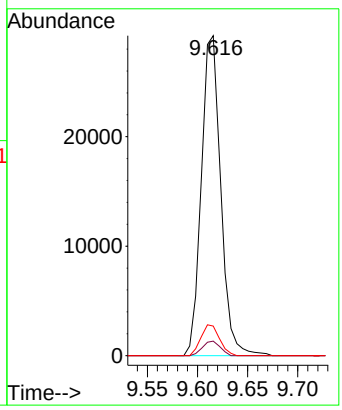
**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

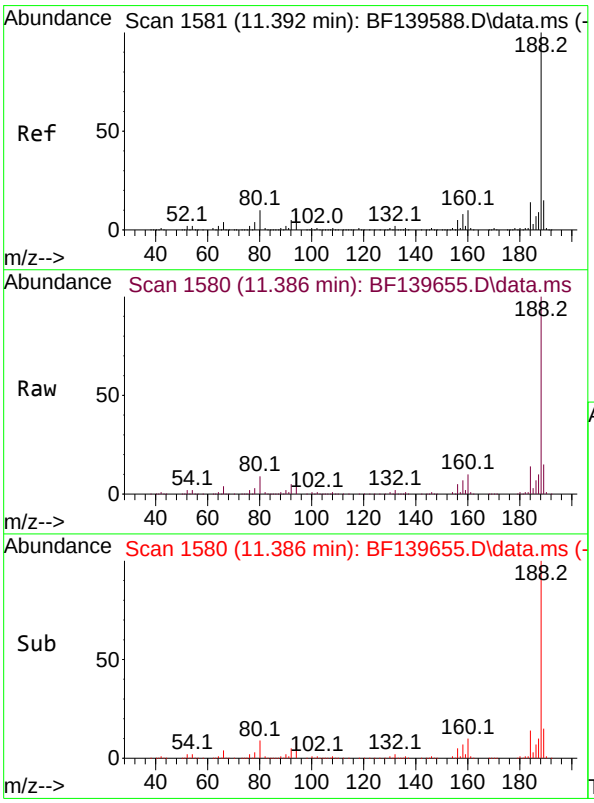



#50
Dimethylphthalate
Concen: 3.128 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

Tgt Ion:163 Resp: 39529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.5 | 3.4 | 5.0 |
| 164 | 9.2 | 8.1 | 12.1 |

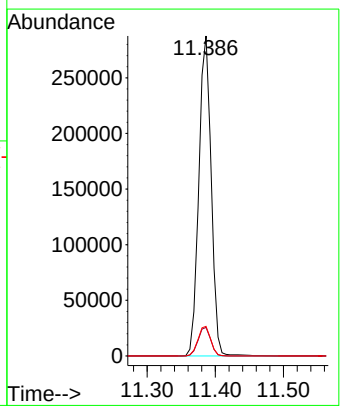


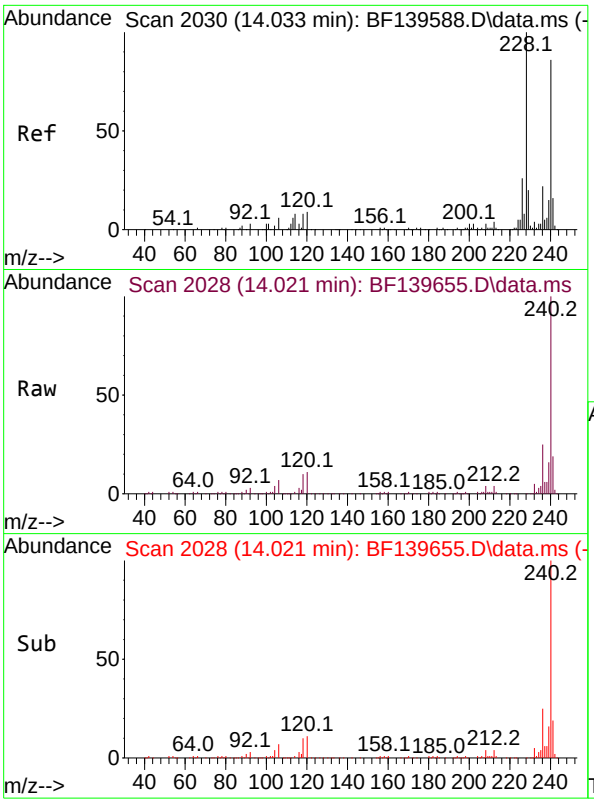

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

Tgt Ion:188 Resp: 361345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.9 | 7.4 | 11.2 |
| 80 | 9.2 | 8.2 | 12.2 |



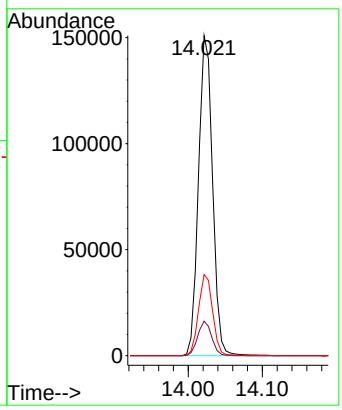
**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

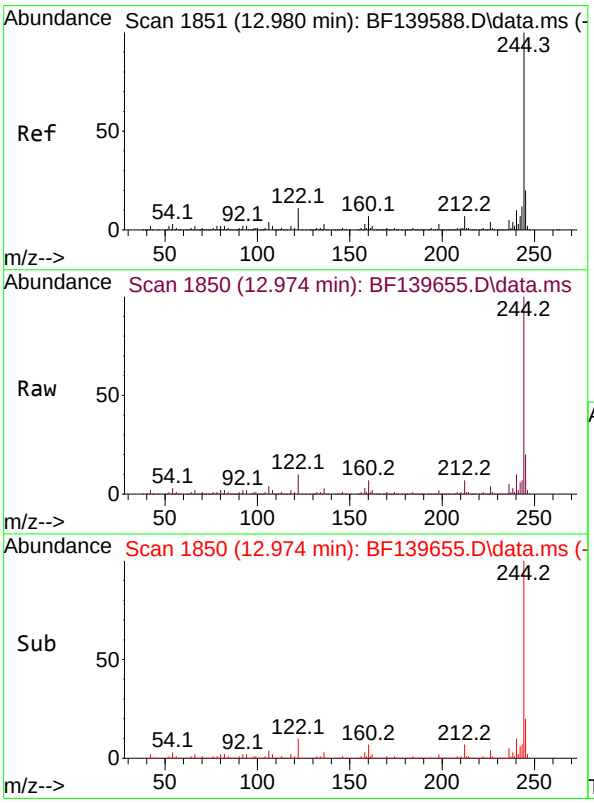



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

Tgt Ion:240 Resp: 198886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.8 | 8.4 | 12.6 |
| 236 | 25.4 | 20.3 | 30.5 |

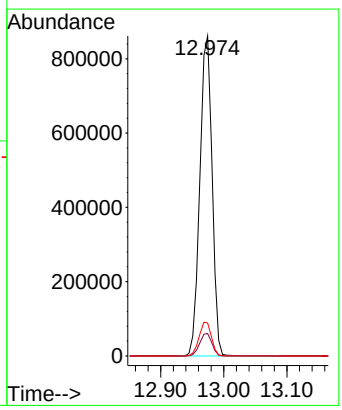


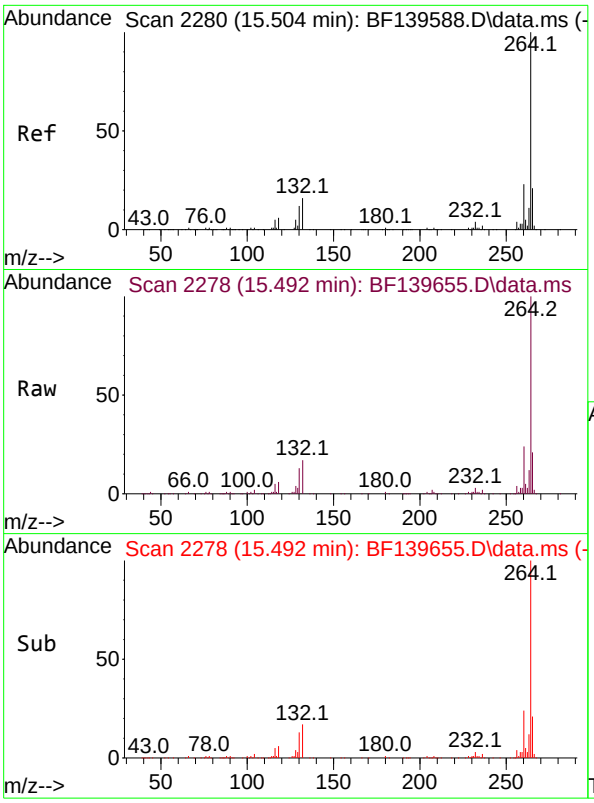




#79
Terphenyl-d14
Concen: 95.798 ng
RT: 12.974 min Scan# 1850
Delta R.T. -0.006 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

Tgt Ion:244 Resp: 1161176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.0 | 5.8 | 8.6 |
| 122 | 10.3 | 8.6 | 12.8 |



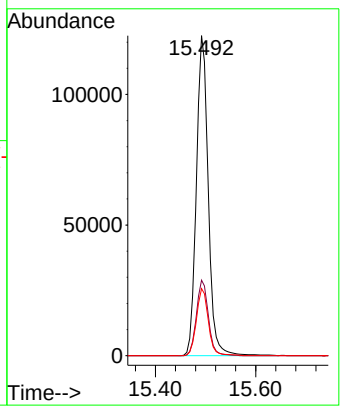



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.492 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF139655.D
Acq: 04 Oct 2024 14:07

**Instrument :**
BNA_F
**ClientSampleId :**
Chamberlain Ave

Tgt Ion:264 Resp: 200851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.6 | 18.7 | 28.1 |
| 265 | 21.0 | 16.9 | 25.3 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139646.D
Acq On : 04 Oct 2024 09:56
Operator : RC/JU
Sample : PB163851TB
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB163851TB

Quant Time: Oct 04 11:11:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

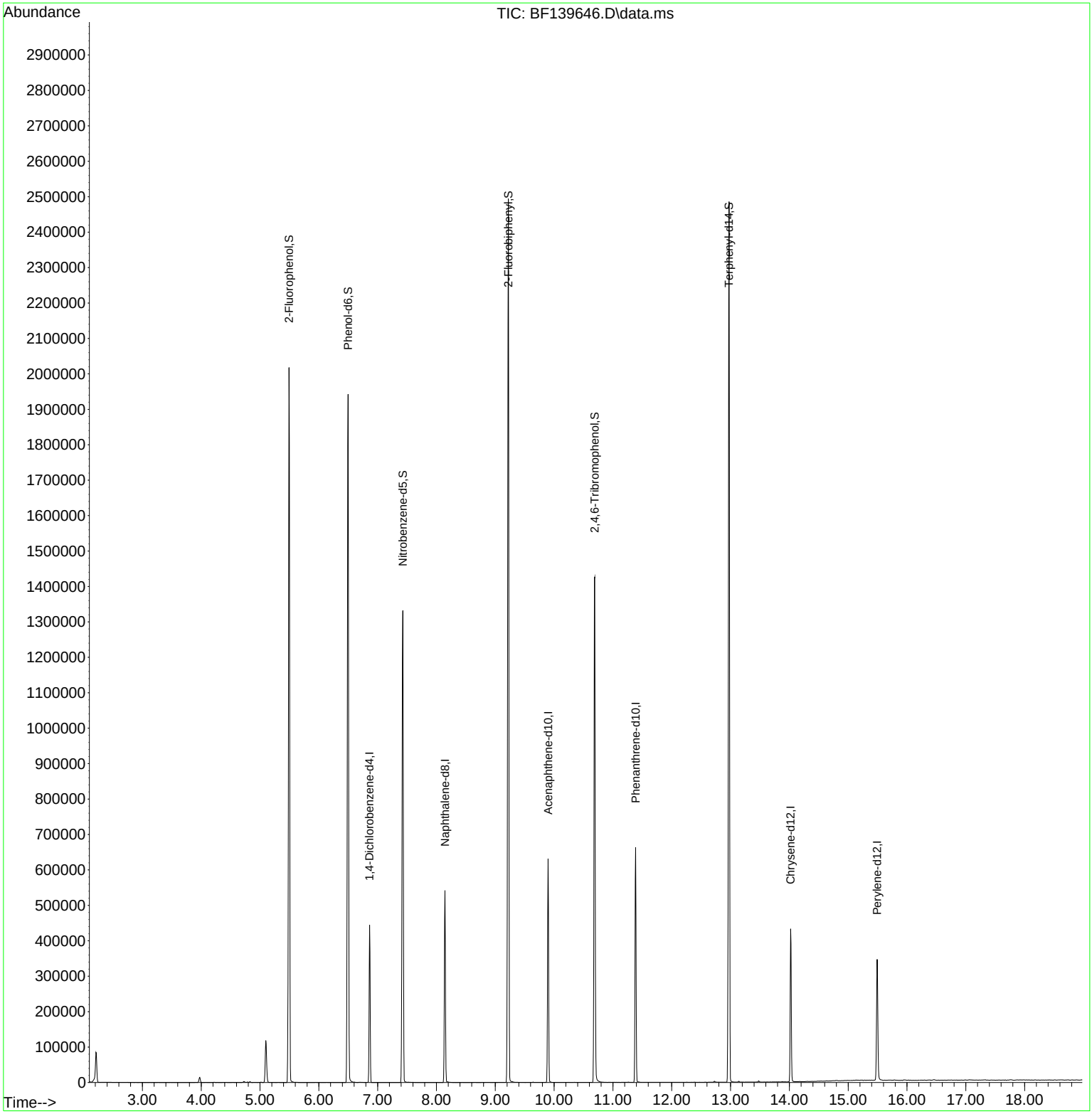
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.863 | 152 | 87365 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.145 | 136 | 332749 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.898 | 164 | 181182 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.386 | 188 | 349179 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.021 | 240 | 203841 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.492 | 264 | 202861 | 20.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.492 | 112 | 709819 | 140.822 | ng | 0.00 |
| 7) Phenol-d6 | 6.498 | 99 | 928942 | 137.043 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 605545 | 92.138 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.692 | 330 | 234072 | 133.831 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 1119166 | 94.829 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.974 | 244 | 1221569 | 98.331 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

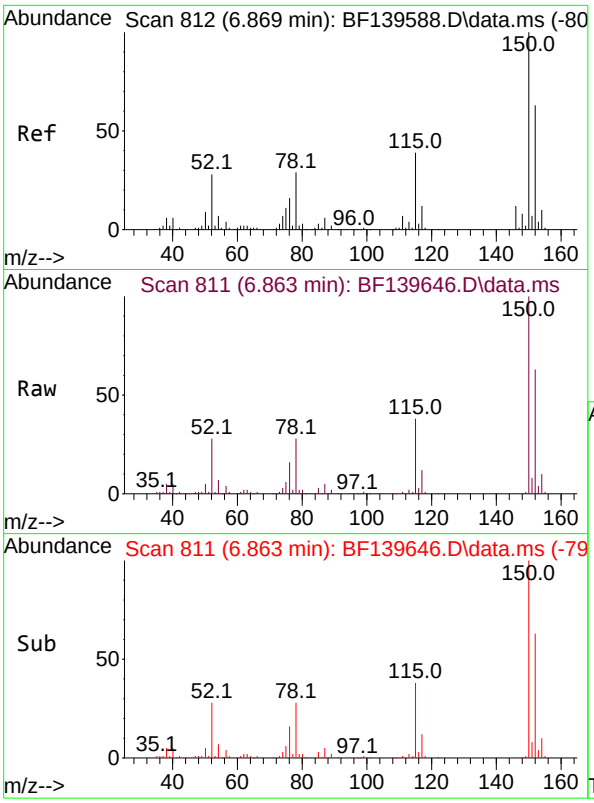
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139646.D
Acq On : 04 Oct 2024 09:56
Operator : RC/JU
Sample : PB163851TB
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB163851TB

Quant Time: Oct 04 11:11:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration



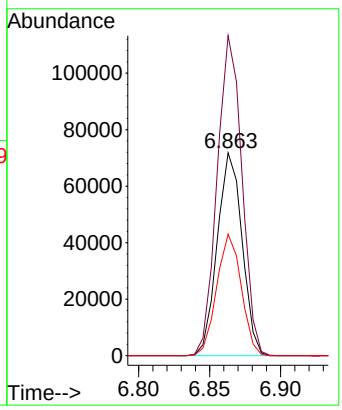
**Instrument :**
BNA_F
**ClientSampleId :**
PB163851TB

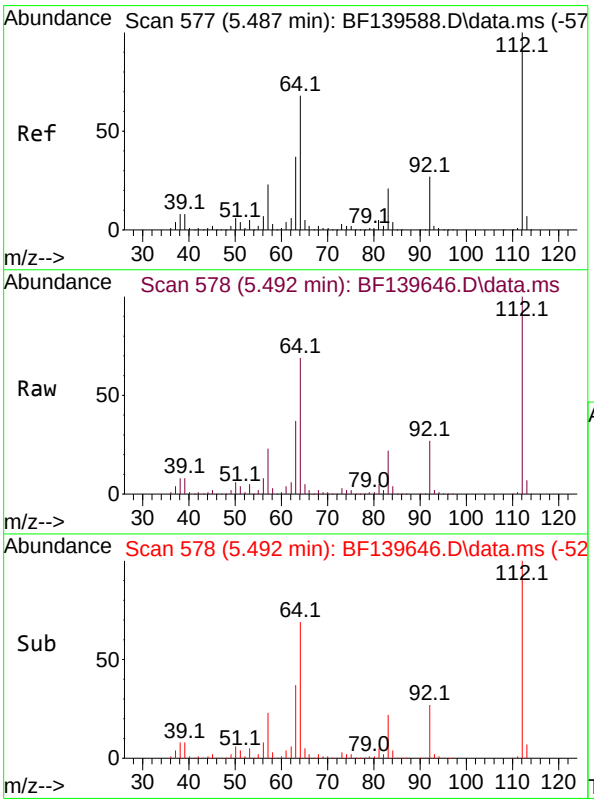



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

Tgt Ion:152 Resp: 87365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.8 | 127.2 | 190.8 |
| 115 | 59.8 | 49.0 | 73.4 |

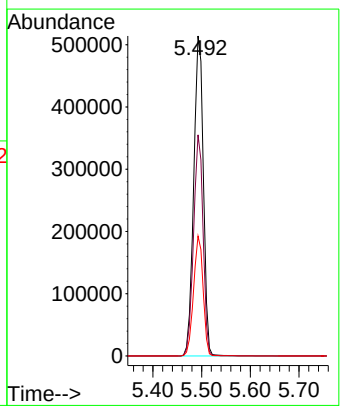


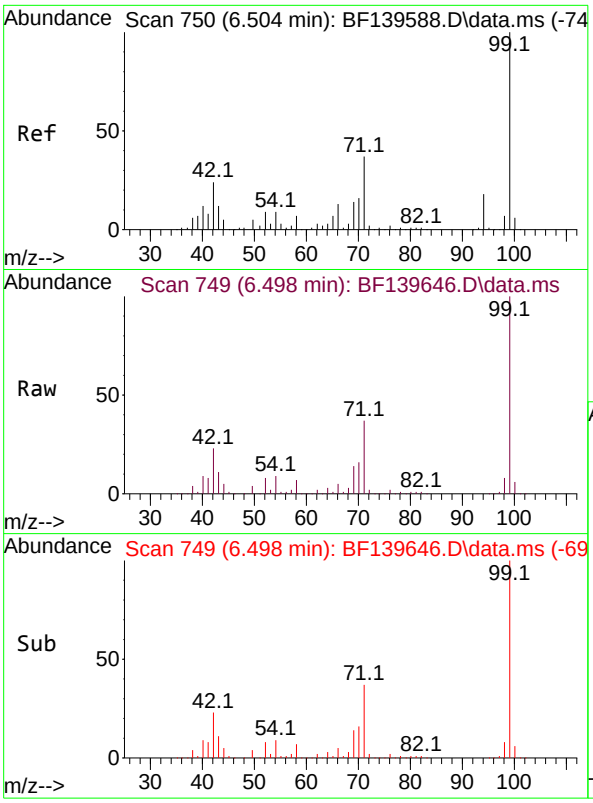

#5
2-Fluorophenol
Concen: 140.822 ng
RT: 5.492 min Scan# 578
Delta R.T. 0.005 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

Tgt Ion:112 Resp: 709819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.1 | 54.2 | 81.4 |
| 63 | 37.5 | 29.4 | 44.2 |



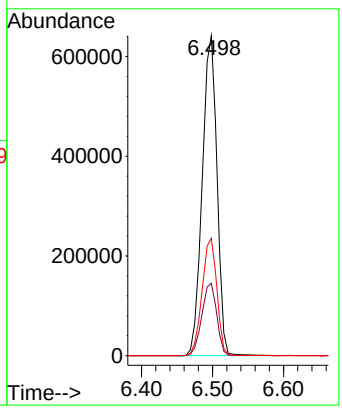
**Instrument :**
BNA_F
**ClientSampleId :**
PB163851TB

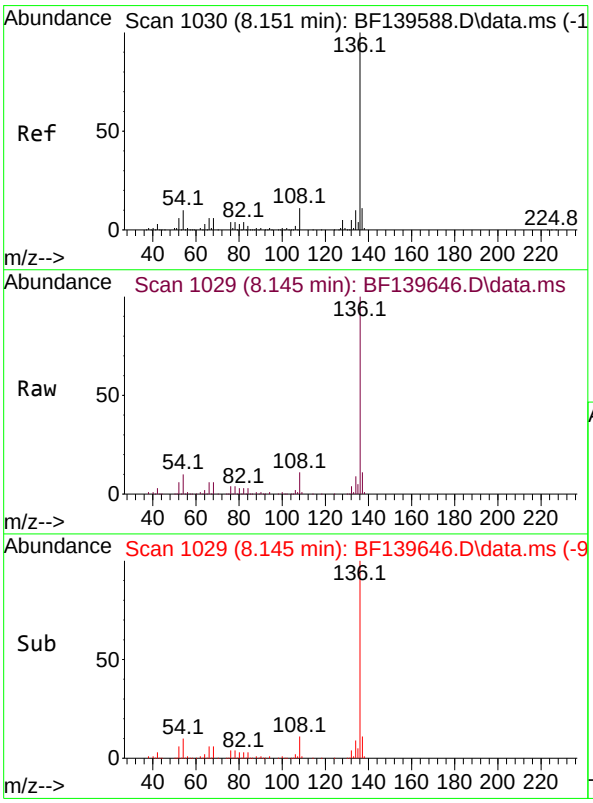



#7
Phenol-d6
Concen: 137.043 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

Tgt Ion: 99 Resp: 928942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.6 | 19.1 | 28.7 |
| 71 | 36.7 | 29.7 | 44.5 |

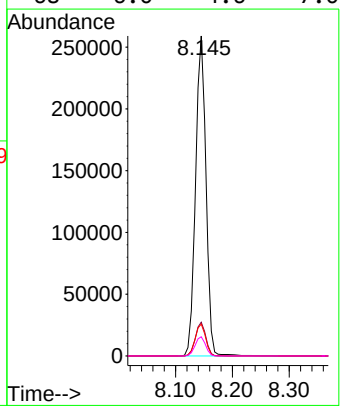


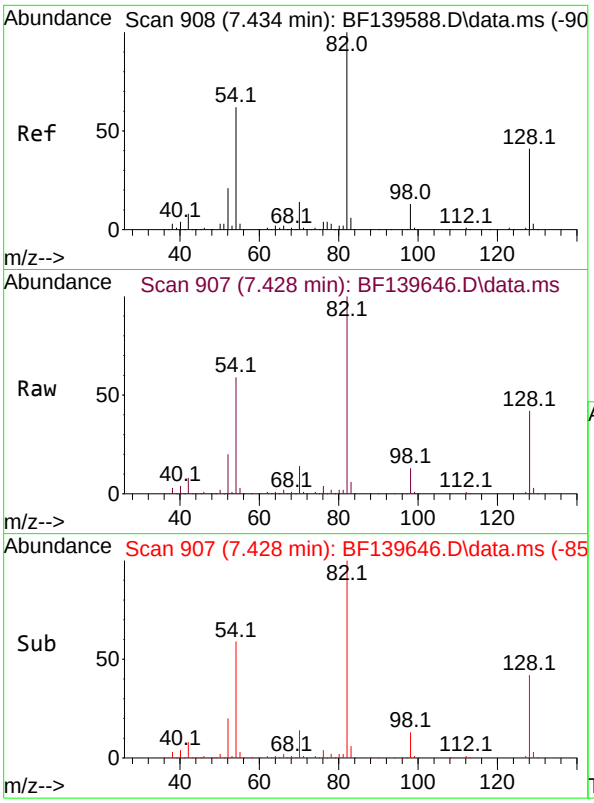




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

Tgt Ion:136 Resp: 332749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.5 | 8.6 | 13.0 |
| 54 | 10.0 | 8.3 | 12.5 |
| 68 | 6.0 | 4.6 | 7.0 |



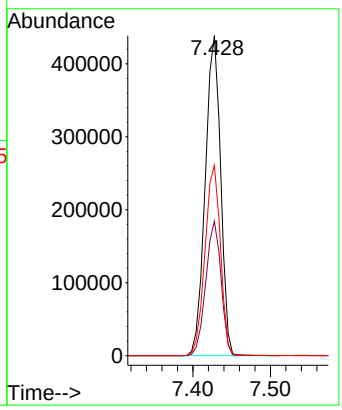


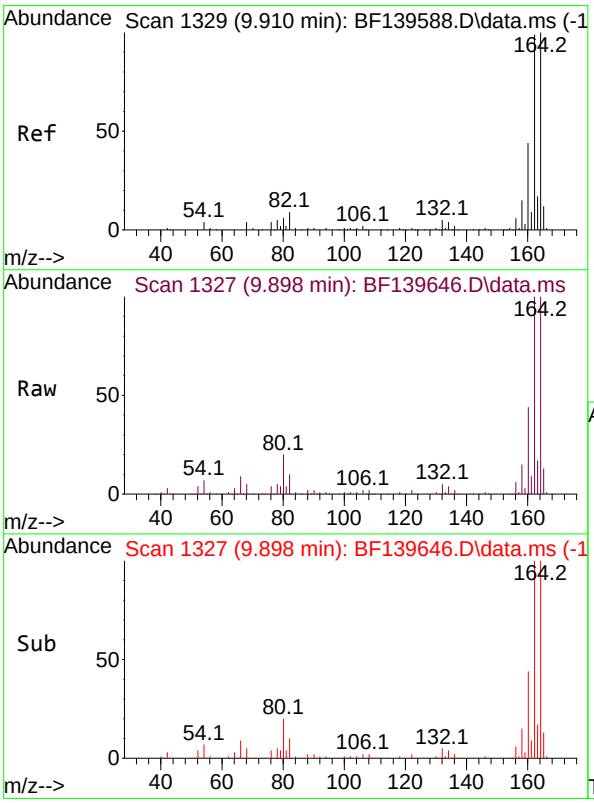

#23
Nitrobenzene-d5
Concen: 92.138 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

**Instrument :**
BNA_F
**ClientSampleId :**
PB163851TB

Tgt Ion: 82 Resp: 605545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.0 | 32.4 | 48.6 |
| 54 | 59.5 | 49.1 | 73.7 |

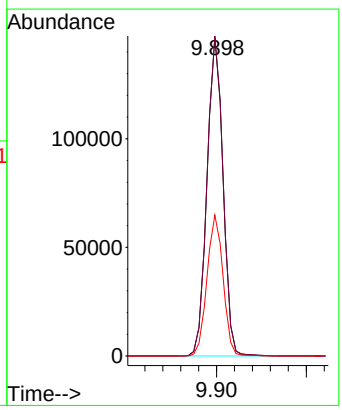


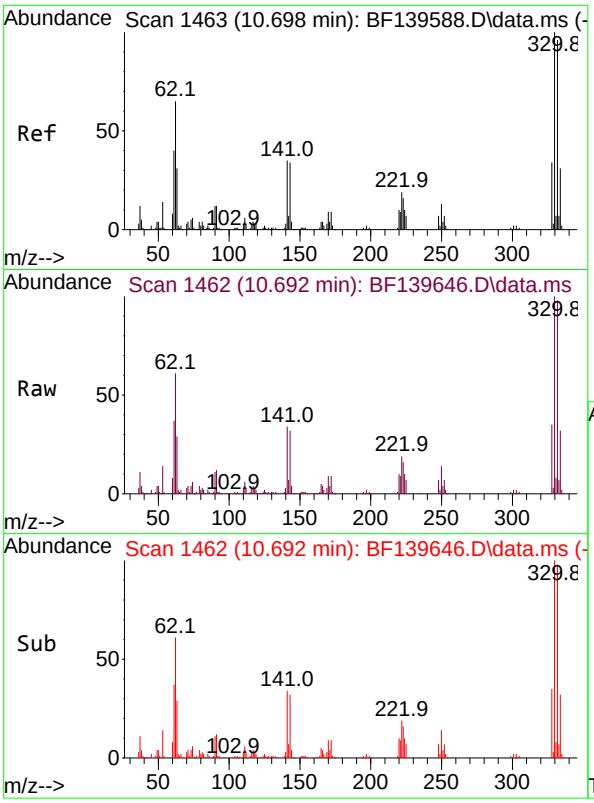




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.012 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

Tgt Ion:164 Resp: 181182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.5 | 79.4 | 119.0 |
| 160 | 44.2 | 35.1 | 52.7 |



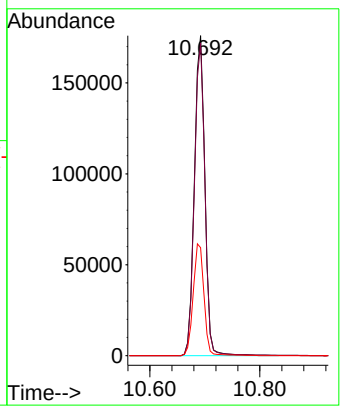


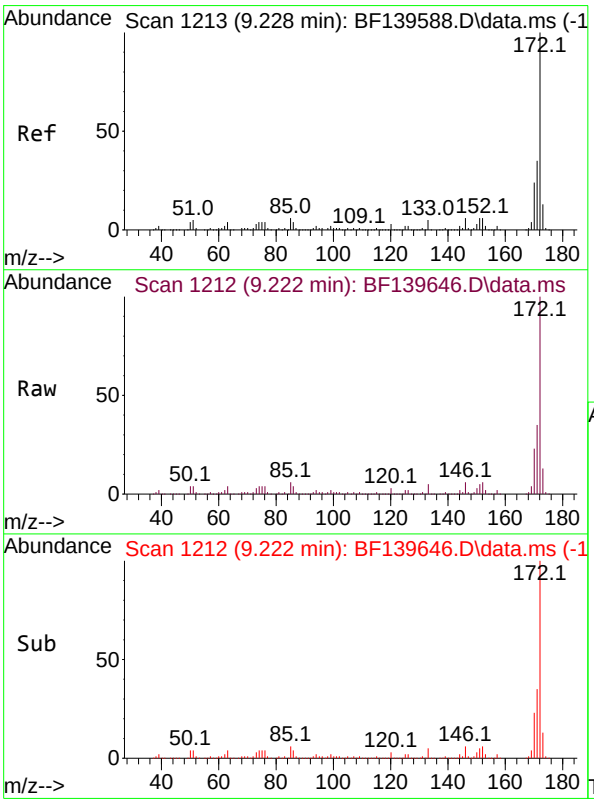

#42
2,4,6-Tribromophenol
Concen: 133.831 ng
RT: 10.692 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

**Instrument :**
BNA_F
**ClientSampleId :**
PB163851TB

Tgt Ion:330 Resp: 234072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.6 | 76.5 | 114.7 |
| 141 | 35.9 | 29.3 | 43.9 |

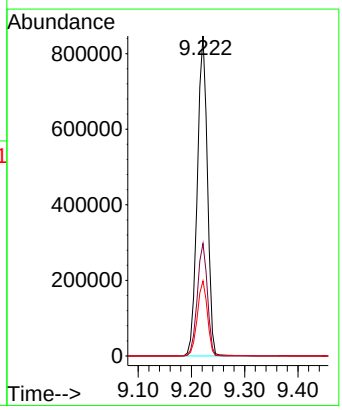


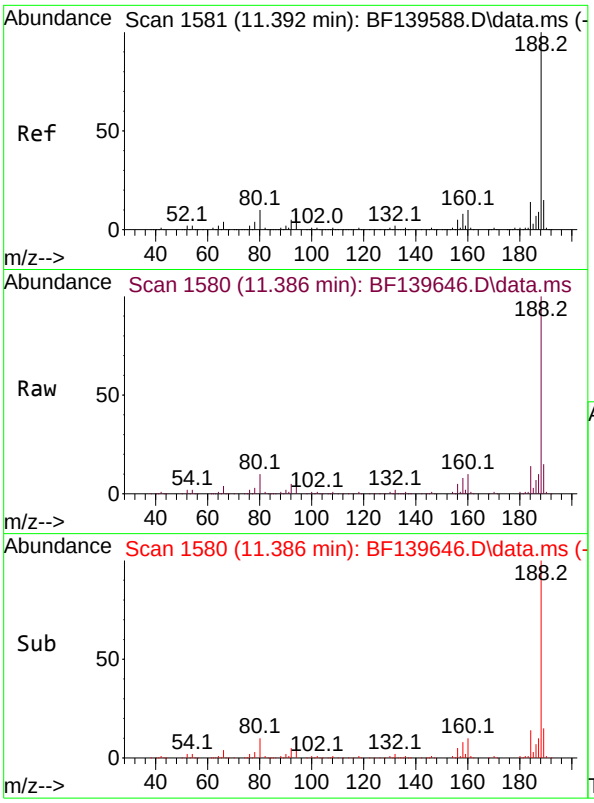

#45
2-Fluorobiphenyl
Concen: 94.829 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.006 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

Tgt Ion:172 Resp: 1119166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.2 | 28.2 | 42.4 |
| 170 | 23.4 | 18.8 | 28.2 |



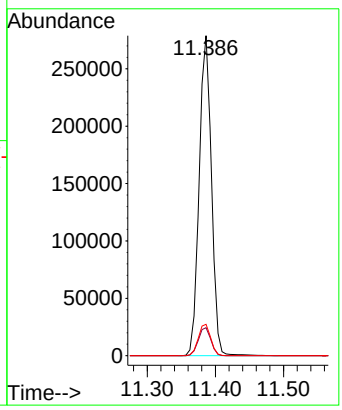
**Instrument :**
BNA_F
**ClientSampleId :**
PB163851TB

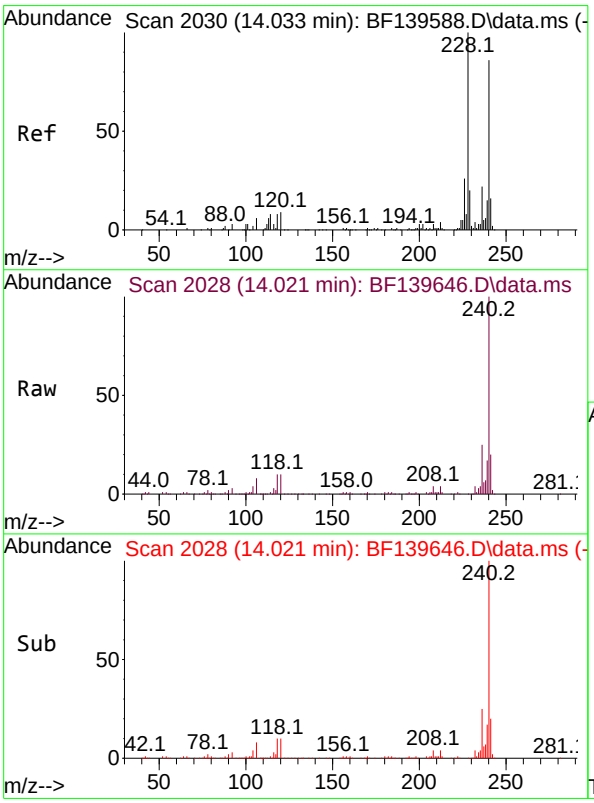



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

Tgt Ion:188 Resp: 349179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.8 | 7.4 | 11.2 |
| 80 | 9.8 | 8.2 | 12.2 |

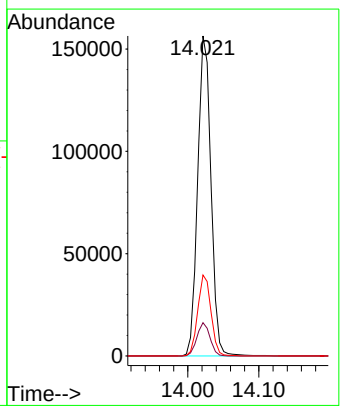


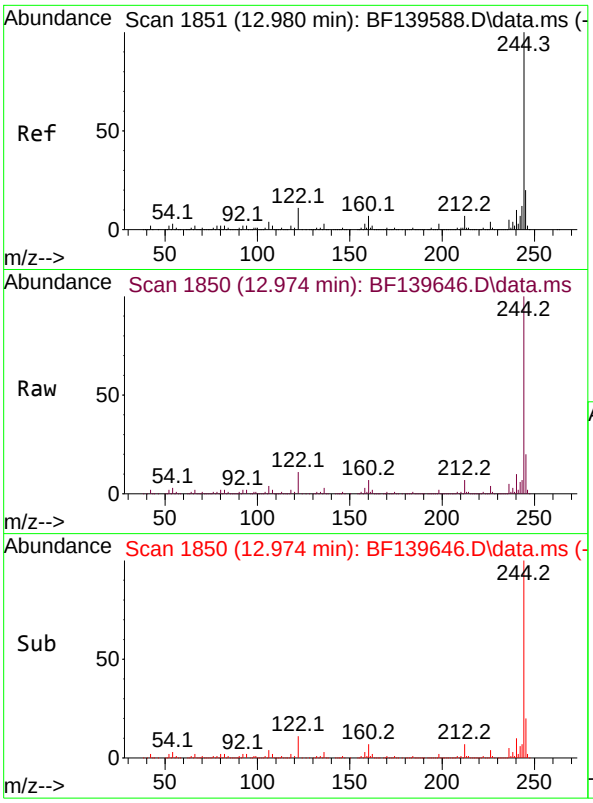




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

Tgt Ion:240 Resp: 203841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.4 | 8.4 | 12.6 |
| 236 | 25.3 | 20.3 | 30.5 |



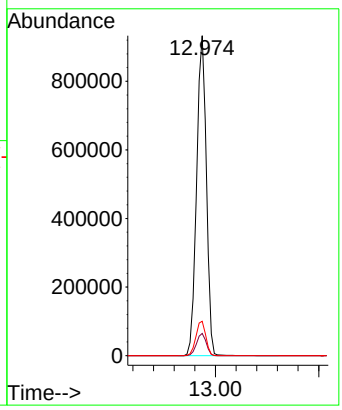


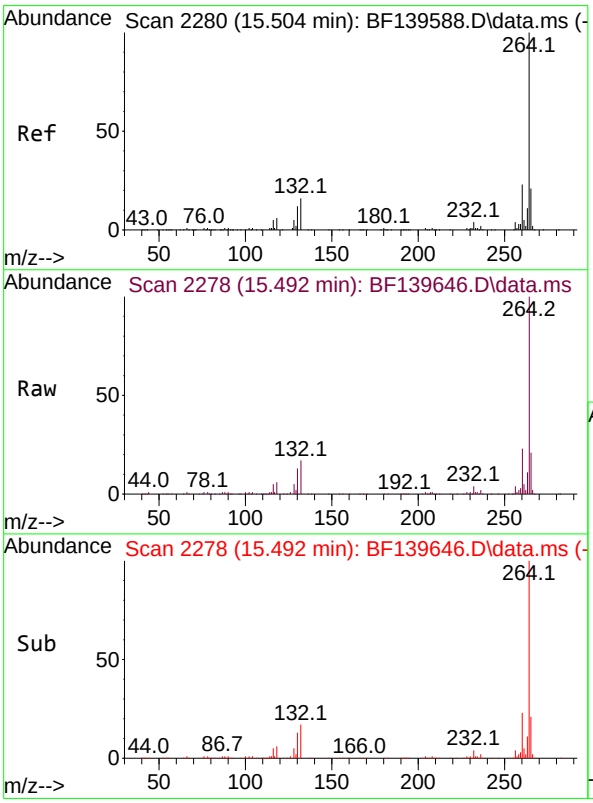

#79
Terphenyl-d14
Concen: 98.331 ng
RT: 12.974 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

**Instrument :**
BNA_F
**ClientSampleId :**
PB163851TB

Tgt Ion:244 Resp: 1221569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.0 | 5.8 | 8.6 |
| 122 | 10.8 | 8.6 | 12.8 |

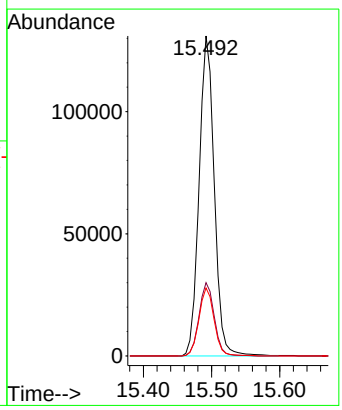



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.492 min Scan# 2278
Delta R.T. -0.012 min
Lab File: BF139646.D
Acq: 04 Oct 2024 09:56

Tgt Ion:264 Resp: 202861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.9 | 18.7 | 28.1 |
| 265 | 21.3 | 16.9 | 25.3 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139645.D
Acq On : 04 Oct 2024 09:29
Operator : RC/JU
Sample : PB163883BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB163883BL

Quant Time: Oct 04 11:11:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

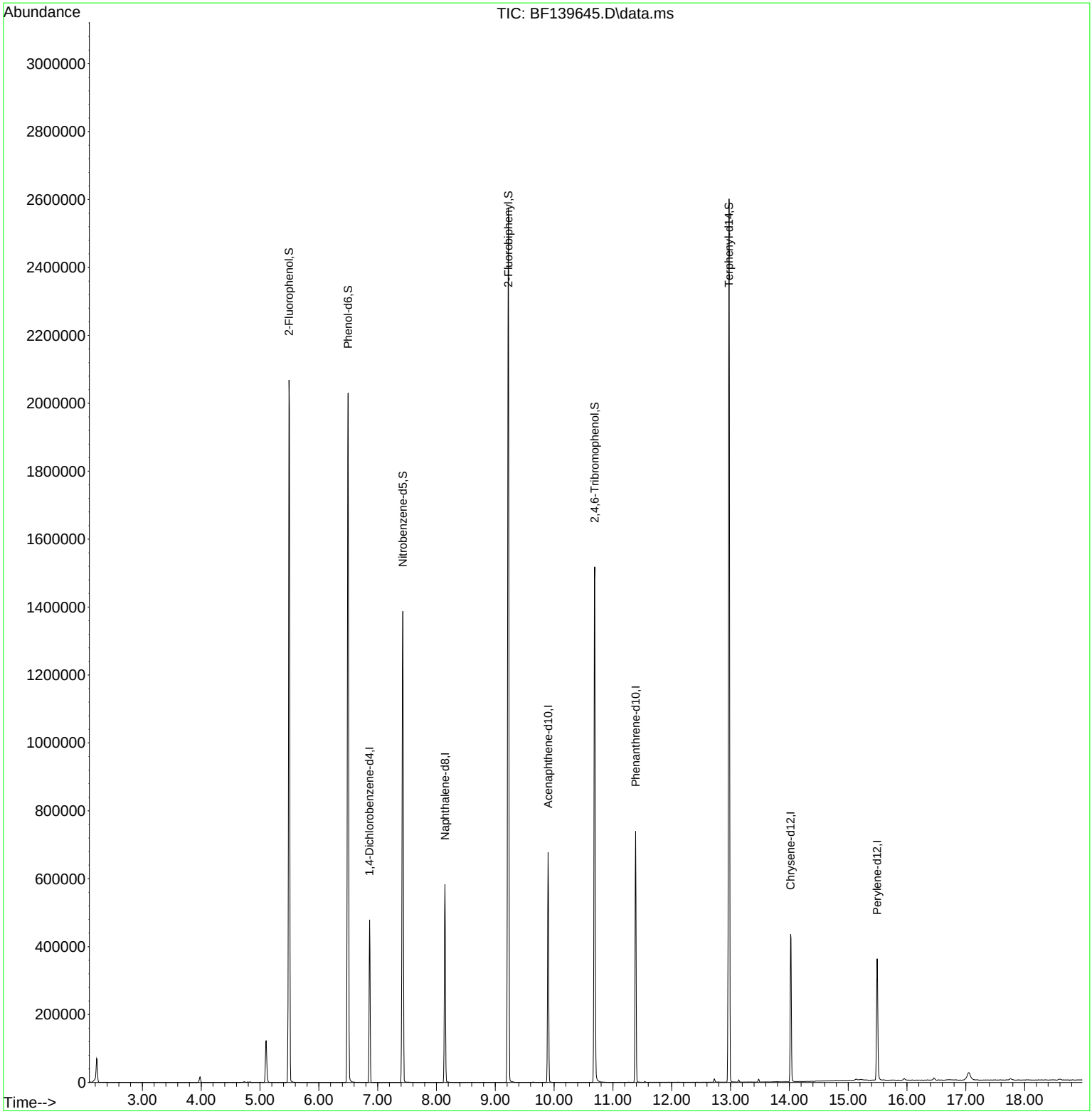
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.863 | 152 | 93658 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.145 | 136 | 358600 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.898 | 164 | 200684 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.386 | 188 | 382052 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.021 | 240 | 212702 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.492 | 264 | 210145 | 20.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.492 | 112 | 737657 | 136.512 | ng | 0.00 |
| 7) Phenol-d6 | 6.498 | 99 | 973398 | 133.953 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 639567 | 90.300 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.692 | 330 | 251010 | 129.568 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 1178897 | 90.183 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.974 | 244 | 1285285 | 99.150 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

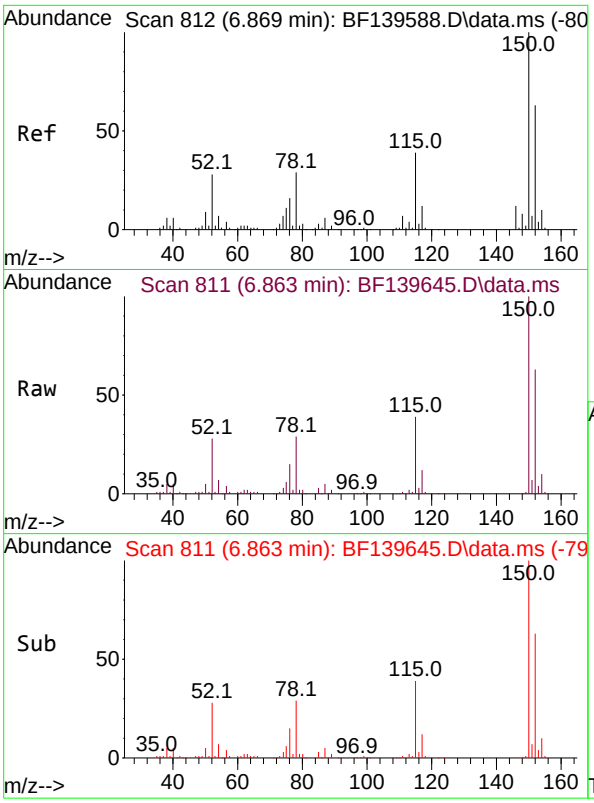
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139645.D
Acq On : 04 Oct 2024 09:29
Operator : RC/JU
Sample : PB163883BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB163883BL

Quant Time: Oct 04 11:11:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration



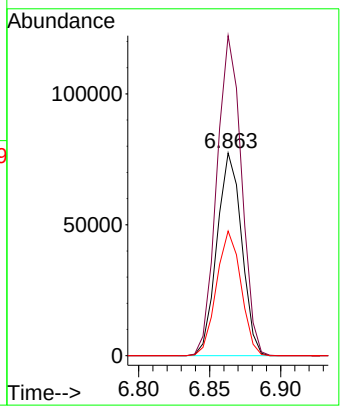
**Instrument :**
BNA_F
**ClientSampleId :**
PB163883BL

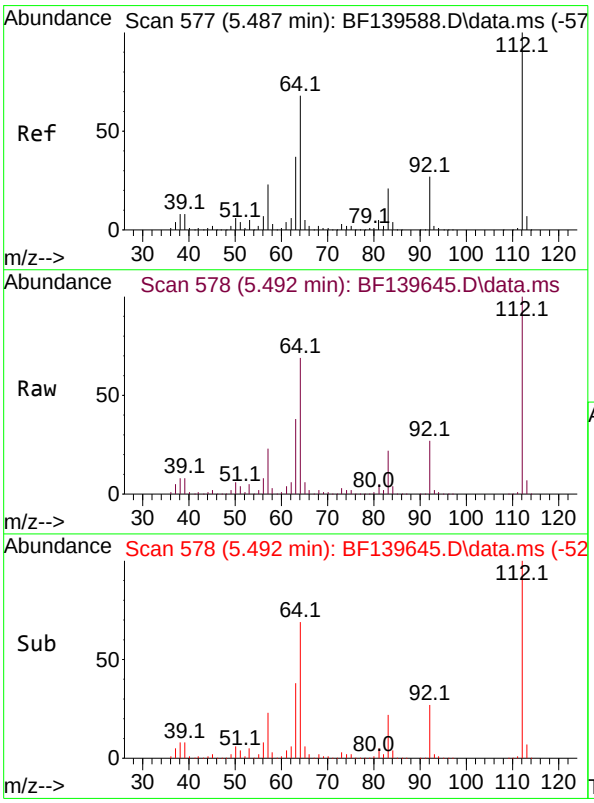



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

Tgt Ion:152 Resp: 93658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.9 | 127.2 | 190.8 |
| 115 | 61.5 | 49.0 | 73.4 |

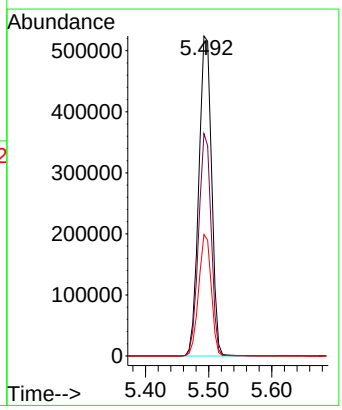


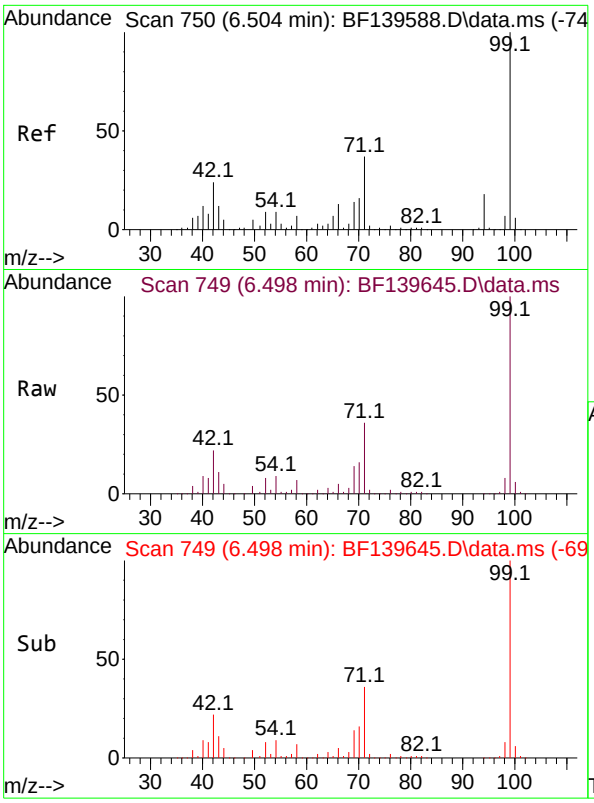

#5
2-Fluorophenol
Concen: 136.512 ng
RT: 5.492 min Scan# 578
Delta R.T. 0.005 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

Tgt Ion:112 Resp: 737657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.5 | 54.2 | 81.4 |
| 63 | 38.0 | 29.4 | 44.2 |



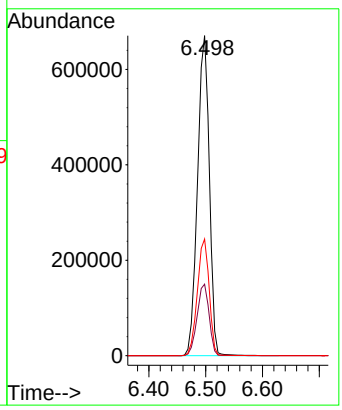
**Instrument :**
BNA_F
**ClientSampleId :**
PB163883BL

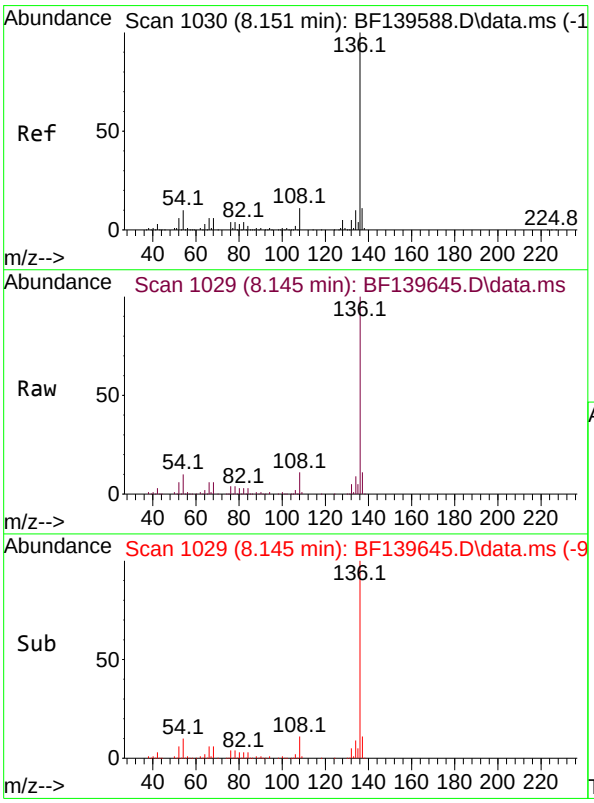



#7
Phenol-d6
Concen: 133.953 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

Tgt Ion: 99 Resp: 973398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.4 | 19.1 | 28.7 |
| 71 | 36.4 | 29.7 | 44.5 |

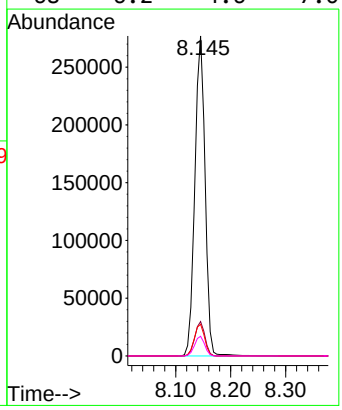


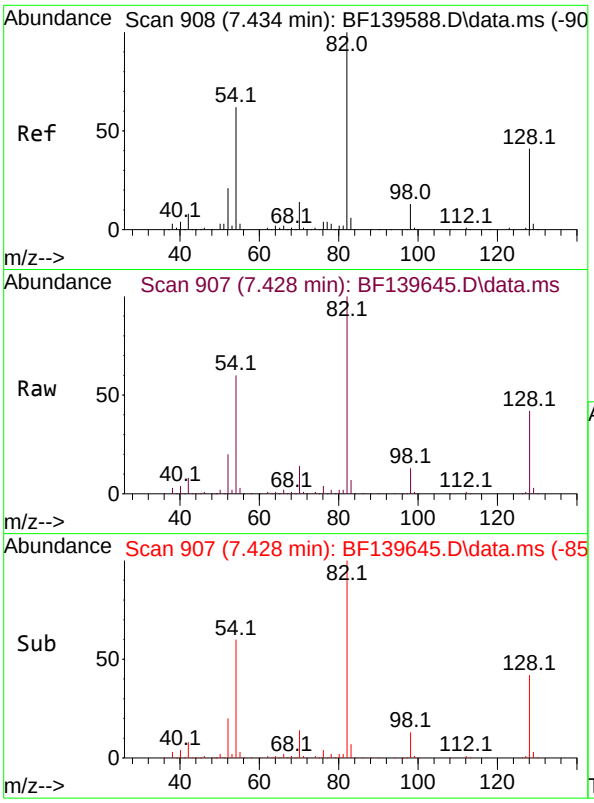




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

Tgt Ion:136 Resp: 358600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.6 | 13.0 |
| 54 | 9.9 | 8.3 | 12.5 |
| 68 | 6.2 | 4.6 | 7.0 |



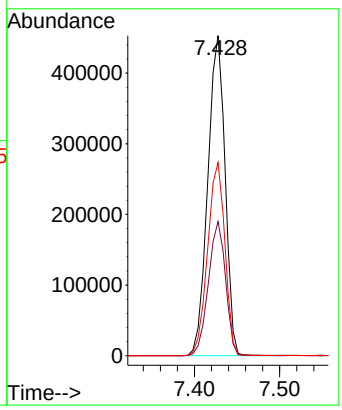


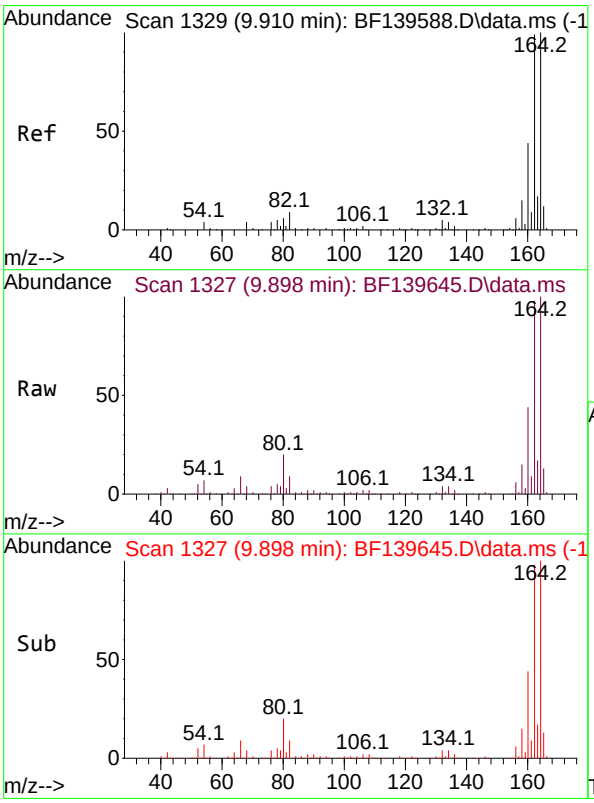

#23
Nitrobenzene-d5
Concen: 90.300 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

**Instrument :**
BNA_F
**ClientSampleId :**
PB163883BL

Tgt Ion: 82 Resp: 639567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.9 | 32.4 | 48.6 |
| 54 | 60.3 | 49.1 | 73.7 |

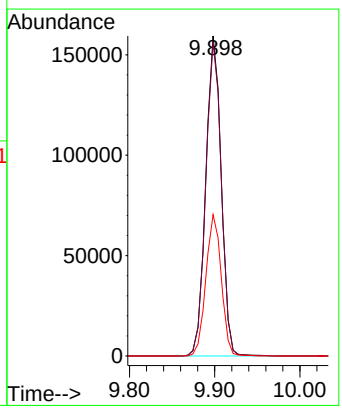


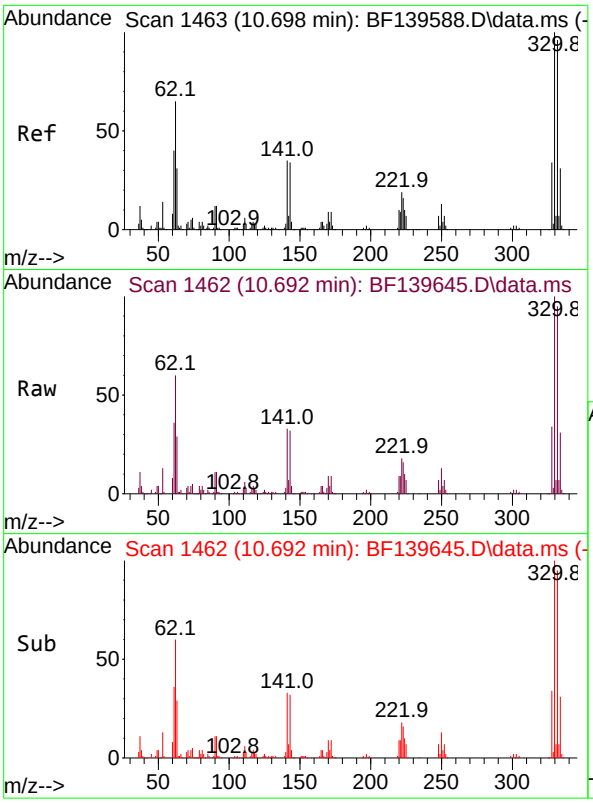




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.012 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

Tgt Ion:164 Resp: 200684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 98.1 | 79.4 | 119.0 |
| 160 | 44.1 | 35.1 | 52.7 |



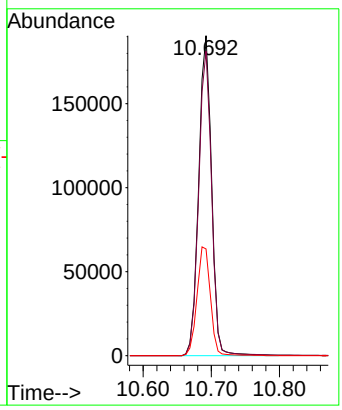


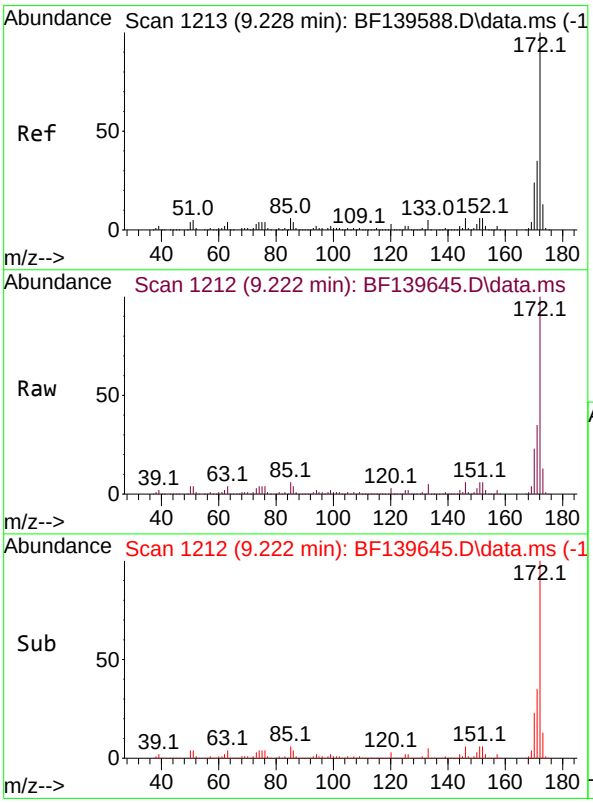

#42
2,4,6-Tribromophenol
Concen: 129.568 ng
RT: 10.692 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

**Instrument :**
BNA_F
**ClientSampleId :**
PB163883BL

Tgt Ion:330 Resp: 251010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.4 | 76.5 | 114.7 |
| 141 | 35.4 | 29.3 | 43.9 |

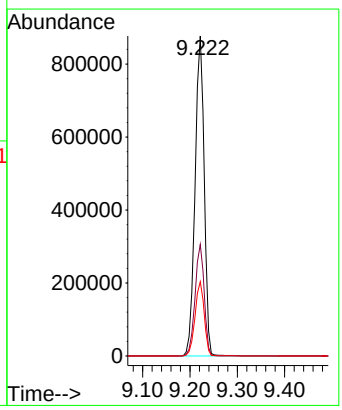


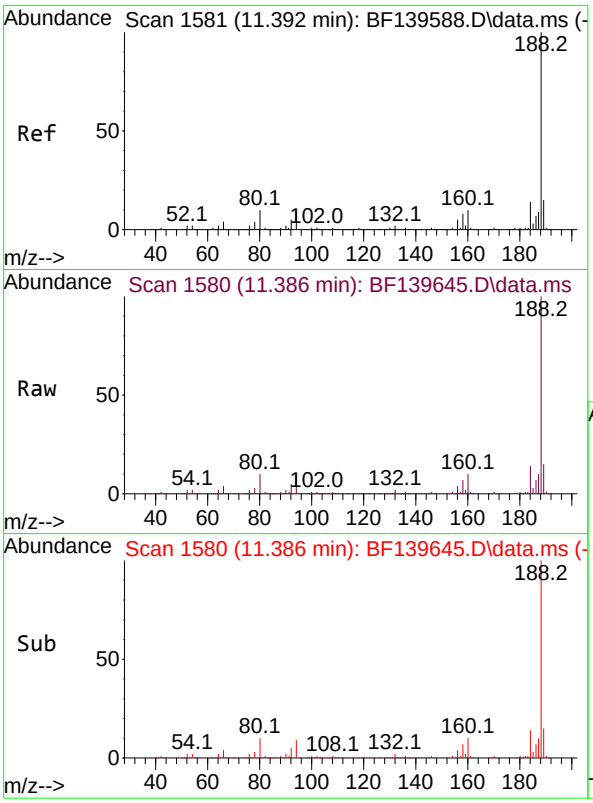

#45
2-Fluorobiphenyl
Concen: 90.183 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.006 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

Tgt Ion:172 Resp: 1178897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.9 | 28.2 | 42.4 |
| 170 | 23.2 | 18.8 | 28.2 |



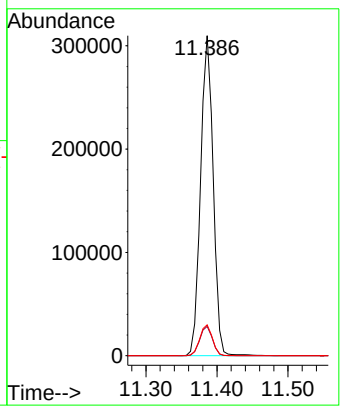
**Instrument :**
BNA_F
**ClientSampleId :**
PB163883BL

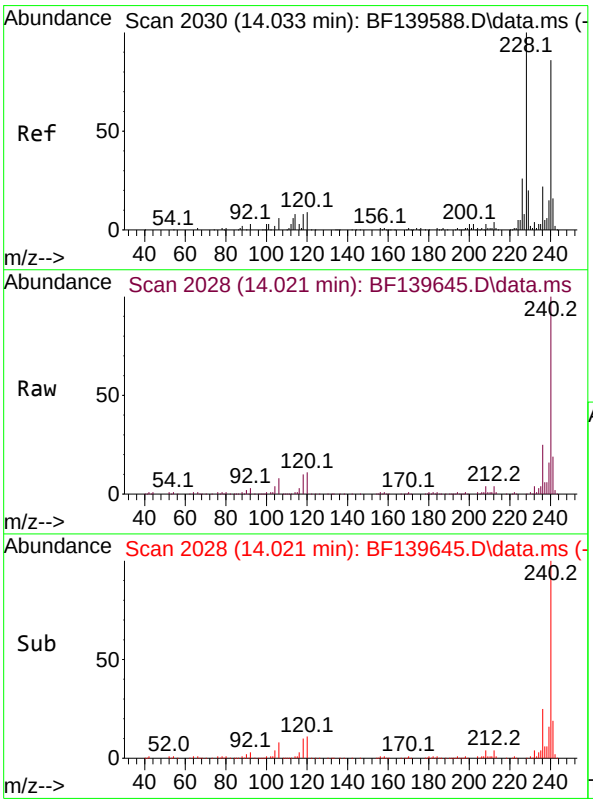



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

Tgt Ion:188 Resp: 382052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.1 | 7.4 | 11.2 |
| 80 | 9.6 | 8.2 | 12.2 |

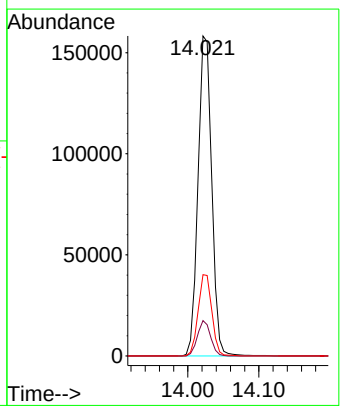


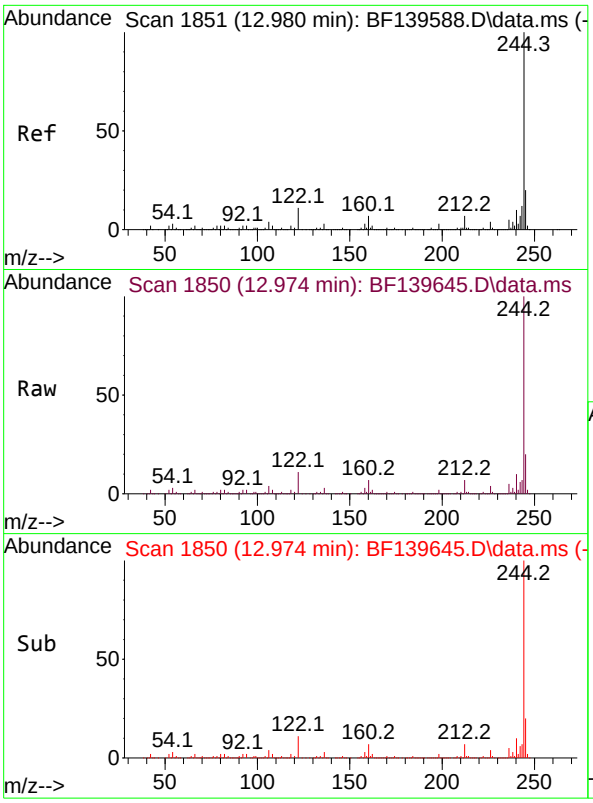




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

Tgt Ion:240 Resp: 212702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.0 | 8.4 | 12.6 |
| 236 | 25.4 | 20.3 | 30.5 |



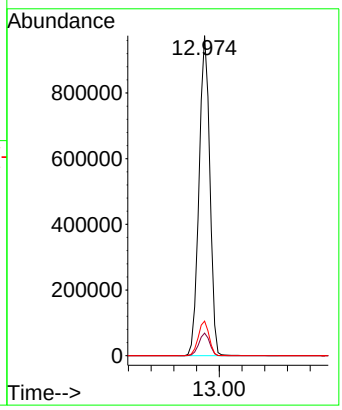


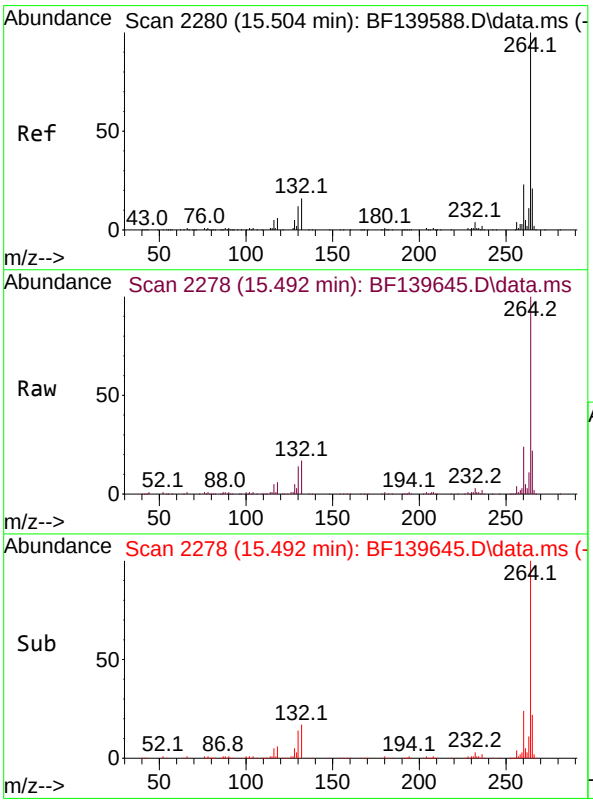

#79
Terphenyl-d14
Concen: 99.150 ng
RT: 12.974 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

**Instrument :**
BNA_F
**ClientSampleId :**
PB163883BL

Tgt Ion:244 Resp: 1285285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.8 | 8.6 |
| 122 | 10.8 | 8.6 | 12.8 |

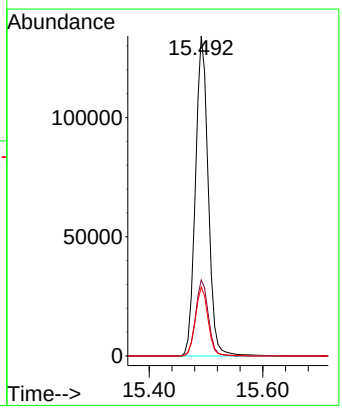



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.492 min Scan# 2278
Delta R.T. -0.012 min
Lab File: BF139645.D
Acq: 04 Oct 2024 09:29

Tgt Ion:264 Resp: 210145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.8 | 18.7 | 28.1 |
| 265 | 21.5 | 16.9 | 25.3 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139647.D
Acq On : 04 Oct 2024 10:24
Operator : RC/JU
Sample : PB163883BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB163883BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/05/2024
Supervised By :mohammad ahmed 10/07/2024

Quant Time: Oct 04 11:11:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.863 | 152 | 93801 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.145 | 136 | 355027 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 196147 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.386 | 188 | 367991 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.027 | 240 | 195485 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.492 | 264 | 202104 | 20.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 739658 | 136.673 | ng | 0.01 |
| 7) Phenol-d6 | 6.504 | 99 | 974483 | 133.898 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.434 | 82 | 637473 | 90.910 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 255841 | 135.117 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 1154929 | 90.393 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.974 | 244 | 1174711 | 98.601 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.734 | 88 | 99104 | 42.356 | ng | 99 |
| 3) Pyridine | 3.475 | 79 | 264987 | 46.567 | ng | 97 |
| 4) n-Nitrosodimethylamine | 3.440 | 42 | 178398 | 47.895 | ng | 95 |
| 6) Aniline | 6.528 | 93 | 344284 | 53.310 | ng | 90 |
| 8) 2-Chlorophenol | 6.651 | 128 | 287913 | 49.656 | ng | 99 |
| 9) Benzaldehyde | 6.416 | 77 | 105150 | 27.275 | ng | 100 |
| 10) Phenol | 6.516 | 94 | 377287 | 49.302 | ng | 92 |
| 11) bis(2-Chloroethyl)ether | 6.604 | 93 | 281272 | 45.142 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 6.804 | 146 | 296780 | 45.499 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.881 | 146 | 301575 | 45.650 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.034 | 146 | 287676 | 46.463 | ng | 99 |
| 15) Benzyl Alcohol | 7.010 | 79 | 271615 | 48.845 | ng | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.139 | 45 | 516781 | 47.909 | ng | 97 |
| 17) 2-Methylphenol | 7.122 | 107 | 231394 | 47.804 | ng | 99 |
| 18) Hexachloroethane | 7.375 | 117 | 114077 | 46.296 | ng | 97 |
| 19) n-Nitroso-di-n-propyla... | 7.281 | 70 | 215070 | 45.965 | ng | 98 |
| 20) 3+4-Methylphenols | 7.275 | 107 | 289510 | 47.618 | ng | 96 |
| 22) Acetophenone | 7.275 | 105 | 391889 | 46.503 | ng | 99 |
| 24) Nitrobenzene | 7.451 | 77 | 329764 | 45.415 | ng | 100 |
| 25) Isophorone | 7.686 | 82 | 586027 | 47.054 | ng | 99 |
| 26) 2-Nitrophenol | 7.763 | 139 | 153632 | 49.217 | ng | 99 |
| 27) 2,4-Dimethylphenol | 7.804 | 122 | 220304m | 57.651 | ng | |
| 28) bis(2-Chloroethoxy)met... | 7.898 | 93 | 345313 | 46.432 | ng | 100 |
| 29) 2,4-Dichlorophenol | 8.010 | 162 | 237672 | 47.683 | ng | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.086 | 180 | 253254 | 44.928 | ng | 100 |
| 31) Naphthalene | 8.169 | 128 | 847269 | 46.676 | ng | 100 |
| 32) Benzoic acid | 7.934 | 122 | 170532 | 44.879 | ng | 100 |
| 33) 4-Chloroaniline | 8.216 | 127 | 225508 | 36.702 | ng | 100 |
| 34) Hexachlorobutadiene | 8.281 | 225 | 164497 | 45.095 | ng | 99 |
| 35) Caprolactam | 8.592 | 113 | 78369m | 47.937 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.704 | 107 | 267570 | 47.422 | ng | 99 |
| 37) 2-Methylnaphthalene | 8.863 | 142 | 547317 | 46.295 | ng | 99 |
| 38) 1-Methylnaphthalene | 8.957 | 142 | 508147 | 43.973 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.028 | 216 | 254692 | 46.761 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.010 | 237 | 289004 | 173.045 | ng | 98 |
| 43) 2,4,6-Trichlorophenol | 9.139 | 196 | 177064 | 48.223 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139647.D
Acq On : 04 Oct 2024 10:24
Operator : RC/JU
Sample : PB163883BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 04 11:11:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB163883BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/05/2024
Supervised By :mohammad ahmed 10/07/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.181 | 196 | 182426 | 46.070 | ng | 98 |
| 46) 1,1'-Biphenyl | 9.328 | 154 | 677435 | 46.435 | ng | 99 |
| 47) 2-Chloronaphthalene | 9.351 | 162 | 513142 | 46.919 | ng | 98 |
| 48) 2-Nitroaniline | 9.445 | 65 | 195912 | 49.901 | ng | 98 |
| 49) Acenaphthylene | 9.769 | 152 | 839921 | 50.499 | ng | 100 |
| 50) Dimethylphthalate | 9.628 | 163 | 627630 | 48.881 | ng | 99 |
| 51) 2,6-Dinitrotoluene | 9.692 | 165 | 135833 | 46.831 | ng | 94 |
| 52) Acenaphthene | 9.939 | 154 | 596786m | 52.266 | ng | |
| 53) 3-Nitroaniline | 9.857 | 138 | 115506 | 38.969 | ng | 99 |
| 54) 2,4-Dinitrophenol | 9.969 | 184 | 150207 | 96.282 | ng | 99 |
| 55) Dibenzofuran | 10.110 | 168 | 765149 | 47.861 | ng | 99 |
| 56) 4-Nitrophenol | 10.028 | 139 | 218261 | 96.561 | ng | 97 |
| 57) 2,4-Dinitrotoluene | 10.092 | 165 | 184467 | 48.656 | ng | 98 |
| 58) Fluorene | 10.451 | 166 | 602449 | 47.313 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.228 | 232 | 160664 | 50.236 | ng | 99 |
| 60) Diethylphthalate | 10.328 | 149 | 632997 | 47.729 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.445 | 204 | 292181 | 45.866 | ng | 98 |
| 62) 4-Nitroaniline | 10.475 | 138 | 145193 | 47.889 | ng | 98 |
| 63) Azobenzene | 10.604 | 77 | 633031 | 47.463 | ng | 100 |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198 | 100557 | 48.383 | ng | 96 |
| 66) n-Nitrosodiphenylamine | 10.563 | 169 | 531590 | 49.008 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 10.933 | 248 | 177201 | 46.965 | ng | 99 |
| 68) Hexachlorobenzene | 10.998 | 284 | 197543 | 47.183 | ng | 99 |
| 69) Atrazine | 11.092 | 200 | 177009 | 60.822 | ng | 100 |
| 70) Pentachlorophenol | 11.198 | 266 | 217355 | 87.187 | ng | 98 |
| 71) Phenanthrene | 11.416 | 178 | 849333 | 48.950 | ng | 100 |
| 72) Anthracene | 11.469 | 178 | 858179 | 49.995 | ng | 100 |
| 73) Carbazole | 11.622 | 167 | 787852 | 47.787 | ng | 100 |
| 74) Di-n-butylphthalate | 11.945 | 149 | 964628 | 48.115 | ng | 100 |
| 75) Fluoranthene | 12.604 | 202 | 862506 | 45.473 | ng | 99 |
| 77) Benzidine | 12.727 | 184 | 434924 | 126.134 | ng | 100 |
| 78) Pyrene | 12.833 | 202 | 866218 | 49.543 | ng | 100 |
| 80) Butylbenzylphthalate | 13.445 | 149 | 340151 | 54.390 | ng | 99 |
| 81) Benzo(a)anthracene | 14.015 | 228 | 653162 | 50.820 | ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.980 | 252 | 170199 | 43.270 | ng | 98 |
| 83) Chrysene | 14.057 | 228 | 562118 | 47.838 | ng | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.004 | 149 | 446904 | 57.228 | ng | 100 |
| 85) Di-n-octyl phthalate | 14.615 | 149 | 675474 | 58.877 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 16.974 | 276 | 661995 | 55.651 | ng | 100 |
| 88) Benzo(b)fluoranthene | 15.068 | 252 | 560498 | 42.892 | ng | 99 |
| 89) Benzo(k)fluoranthene | 15.098 | 252 | 575745 | 51.939 | ng | 100 |
| 90) Benzo(a)pyrene | 15.433 | 252 | 544126 | 52.808 | ng | 99 |
| 91) Dibenzo(a,h)anthracene | 16.992 | 278 | 540374 | 54.770 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.415 | 276 | 494577 | 49.983 | ng | 100 |

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

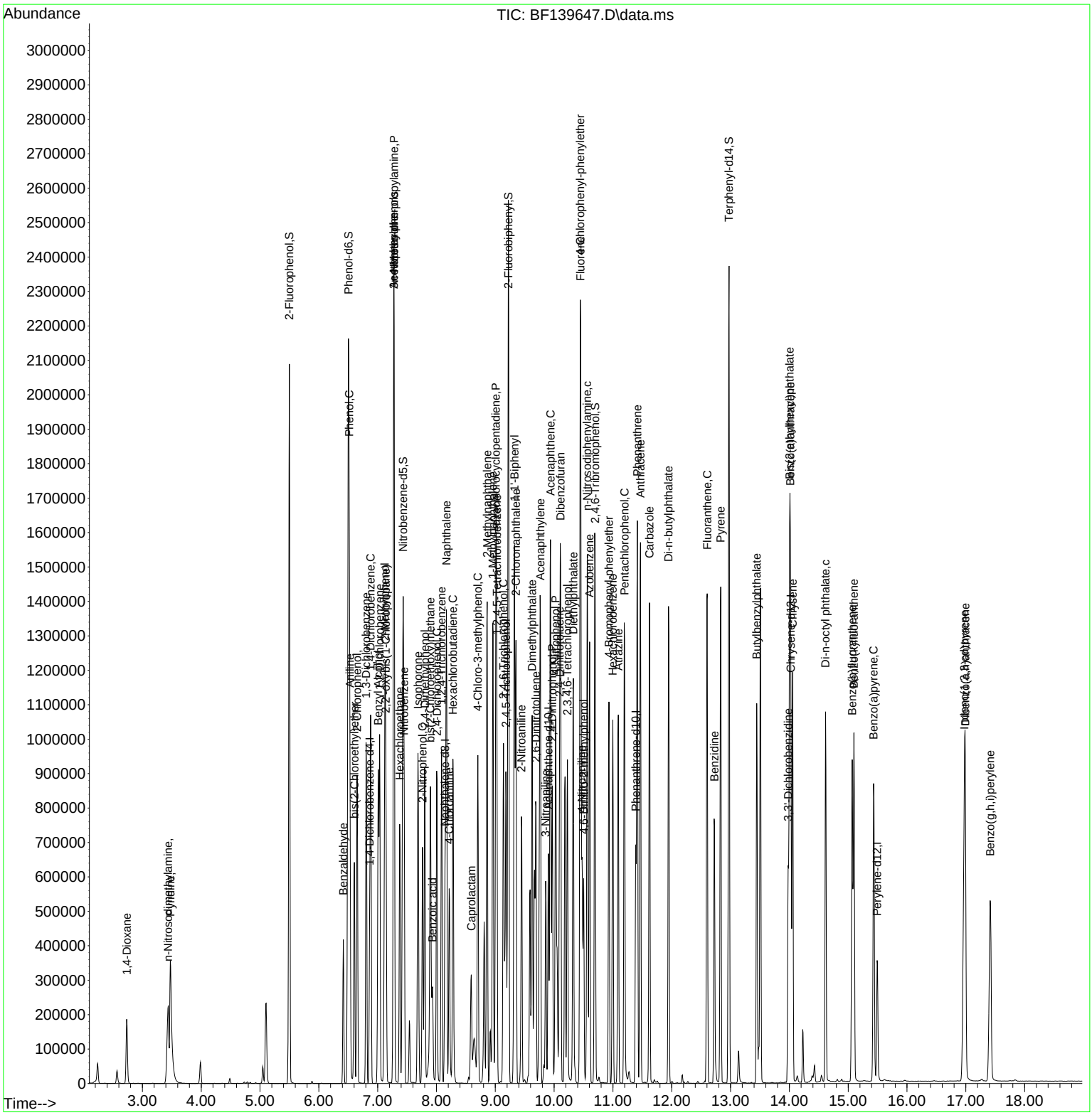
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139647.D
Acq On : 04 Oct 2024 10:24
Operator : RC/JU
Sample : PB163883BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 04 11:11:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB163883BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/05/2024
Supervised By :mohammad ahmed 10/07/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139649.D
Acq On : 04 Oct 2024 11:19
Operator : RC/JU
Sample : P4242-04MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 11:54:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
TP-QMS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/05/2024
Supervised By :mohammad ahmed 10/07/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 90984 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.145 | 136 | 349150 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 193785 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 357779 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.027 | 240 | 197147 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.498 | 264 | 213541 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 706705 | 134.627 | ng | | 0.02 |
| 7) Phenol-d6 | 6.504 | 99 | 883029 | 125.088 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.434 | 82 | 650707 | 94.359 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 254854 | 136.236 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 1170485 | 92.727 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.974 | 244 | 1108815 | 92.285 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.834 | 88 | 106275 | 46.827 | ng | # | 80 |
| 3) Pyridine | 3.534 | 79 | 230897 | 41.832 | ng | | 98 |
| 4) n-Nitrosodimethylamine | 3.475 | 42 | 177095 | 49.017 | ng | | 94 |
| 6) Aniline | 6.534 | 93 | 147115 | 23.485 | ng | # | 88 |
| 8) 2-Chlorophenol | 6.657 | 128 | 286859 | 51.006 | ng | | 97 |
| 9) Benzaldehyde | 6.422 | 77 | 43906 | 11.741 | ng | | 99 |
| 10) Phenol | 6.522 | 94 | 335523 | 45.202 | ng | | 100 |
| 11) bis(2-Chloroethyl)ether | 6.604 | 93 | 285310 | 47.208 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.810 | 146 | 291814 | 46.123 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.887 | 146 | 298677 | 46.611 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.034 | 146 | 286988 | 47.787 | ng | | 98 |
| 15) Benzyl Alcohol | 7.010 | 79 | 271332 | 50.305 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.140 | 45 | 510961 | 48.836 | ng | | 91 |
| 17) 2-Methylphenol | 7.122 | 107 | 229567 | 48.895 | ng | | 99 |
| 18) Hexachloroethane | 7.375 | 117 | 111000 | 46.441 | ng | | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.281 | 70 | 219545 | 48.374 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.275 | 107 | 284140 | 48.181 | ng | | 97 |
| 22) Acetophenone | 7.275 | 105 | 397258 | 47.933 | ng | | 98 |
| 24) Nitrobenzene | 7.451 | 77 | 328763 | 46.040 | ng | | 100 |
| 25) Isophorone | 7.687 | 82 | 596962 | 48.739 | ng | | 100 |
| 26) 2-Nitrophenol | 7.763 | 139 | 152349 | 49.628 | ng | | 97 |
| 27) 2,4-Dimethylphenol | 7.804 | 122 | 224046m | 59.617 | ng | | |
| 28) bis(2-Chloroethoxy)met... | 7.898 | 93 | 352172 | 48.151 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.010 | 162 | 242948 | 49.562 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.087 | 180 | 248756 | 44.873 | ng | | 99 |
| 31) Naphthalene | 8.169 | 128 | 849329 | 47.577 | ng | | 100 |
| 32) Benzoic acid | 7.934 | 122 | 177448 | 47.486 | ng | | 99 |
| 33) 4-Chloroaniline | 8.216 | 127 | 46777 | 7.741 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.281 | 225 | 163202 | 45.493 | ng | | 99 |
| 35) Caprolactam | 8.592 | 113 | 70884m | 44.088 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.710 | 107 | 265111 | 47.777 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.863 | 142 | 552982 | 47.562 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.957 | 142 | 513227 | 45.160 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.028 | 216 | 257656 | 47.881 | ng | | 98 |
| 41) Hexachlorocyclopentadiene | 9.010 | 237 | 292481 | 177.261 | ng | | 100 |
| 43) 2,4,6-Trichlorophenol | 9.139 | 196 | 181913 | 50.147 | ng | | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139649.D
Acq On : 04 Oct 2024 11:19
Operator : RC/JU
Sample : P4242-04MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 11:54:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
TP-QMS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/05/2024
Supervised By :mohammad ahmed 10/07/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.186 | 196 | 189923 | 48.548 | ng | 99 |
| 46) 1,1'-Biphenyl | 9.328 | 154 | 696707 | 48.338 | ng | 100 |
| 47) 2-Chloronaphthalene | 9.351 | 162 | 520390 | 48.161 | ng | 99 |
| 48) 2-Nitroaniline | 9.445 | 65 | 195514 | 50.407 | ng | 98 |
| 49) Acenaphthylene | 9.769 | 152 | 860296 | 52.354 | ng | 100 |
| 50) Dimethylphthalate | 9.628 | 163 | 637211 | 50.232 | ng | 99 |
| 51) 2,6-Dinitrotoluene | 9.692 | 165 | 139151 | 48.560 | ng | 94 |
| 52) Acenaphthene | 9.939 | 154 | 623007m | 55.228 | ng | |
| 53) 3-Nitroaniline | 9.857 | 138 | 55105 | 18.818 | ng | 98 |
| 54) 2,4-Dinitrophenol | 9.969 | 184 | 172113 | 111.669 | ng | 98 |
| 55) Dibenzofuran | 10.110 | 168 | 775316 | 49.088 | ng | 99 |
| 56) 4-Nitrophenol | 10.028 | 139 | 209469 | 93.801 | ng | 96 |
| 57) 2,4-Dinitrotoluene | 10.098 | 165 | 187036 | 49.934 | ng | 96 |
| 58) Fluorene | 10.451 | 166 | 611604 | 48.617 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.228 | 232 | 165780 | 52.467 | ng | 99 |
| 60) Diethylphthalate | 10.328 | 149 | 638499 | 48.731 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.445 | 204 | 297931 | 47.339 | ng | 97 |
| 62) 4-Nitroaniline | 10.475 | 138 | 138193 | 46.136 | ng | 99 |
| 63) Azobenzene | 10.604 | 77 | 646874 | 49.092 | ng | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198 | 107431 | 53.166 | ng | 97 |
| 66) n-Nitrosodiphenylamine | 10.563 | 169 | 535543 | 50.782 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 10.933 | 248 | 178195 | 48.577 | ng | 98 |
| 68) Hexachlorobenzene | 10.998 | 284 | 195023 | 47.911 | ng | 99 |
| 69) Atrazine | 11.092 | 200 | 159152 | 56.247 | ng | 100 |
| 70) Pentachlorophenol | 11.198 | 266 | 248044 | 102.337 | ng | 98 |
| 71) Phenanthrene | 11.416 | 178 | 856219 | 50.755 | ng | 100 |
| 72) Anthracene | 11.469 | 178 | 874643 | 52.408 | ng | 100 |
| 73) Carbazole | 11.622 | 167 | 797649 | 49.763 | ng | 99 |
| 74) Di-n-butylphthalate | 11.945 | 149 | 979641 | 50.259 | ng | 100 |
| 75) Fluoranthene | 12.604 | 202 | 873130 | 47.347 | ng | 99 |
| 77) Benzidine | 12.722 | 184 | 49073 | 14.112 | ng | 99 |
| 78) Pyrene | 12.833 | 202 | 875573 | 49.656 | ng | 99 |
| 80) Butylbenzylphthalate | 13.445 | 149 | 351858 | 55.788 | ng | 100 |
| 81) Benzo(a)anthracene | 14.016 | 228 | 679714 | 52.440 | ng | 100 |
| 82) 3,3'-Dichlorobenzidine | 13.980 | 252 | 135040 | 34.042 | ng | 99 |
| 83) Chrysene | 14.057 | 228 | 584797 | 49.349 | ng | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.004 | 149 | 469313 | 59.591 | ng | 100 |
| 85) Di-n-octyl phthalate | 14.616 | 149 | 720218 | 62.248 | ng | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 16.974 | 276 | 697756 | 55.516 | ng | 99 |
| 88) Benzo(b)fluoranthene | 15.068 | 252 | 678224 | 49.121 | ng | 99 |
| 89) Benzo(k)fluoranthene | 15.098 | 252 | 533434 | 45.545 | ng | 99 |
| 90) Benzo(a)pyrene | 15.439 | 252 | 582357 | 53.491 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 16.992 | 278 | 569718 | 54.652 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.421 | 276 | 523132 | 50.038 | ng | 98 |

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

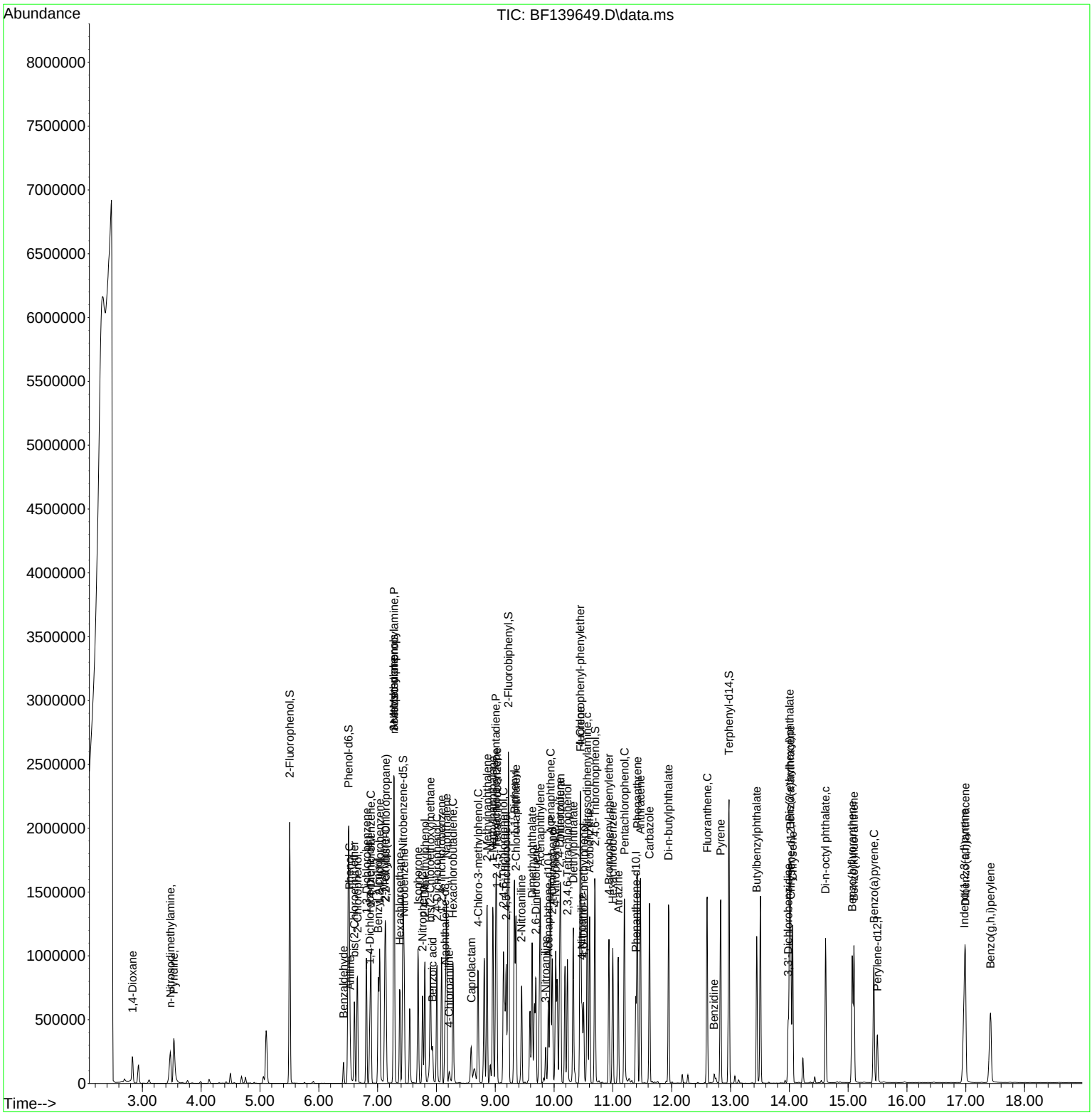
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139649.D
Acq On : 04 Oct 2024 11:19
Operator : RC/JU
Sample : P4242-04MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 11:54:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
TP-QMS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/05/2024
Supervised By :mohammad ahmed 10/07/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139650.D
Acq On : 04 Oct 2024 11:47
Operator : RC/JU
Sample : P4242-04MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 04 12:22:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
TP-QMSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/07/2024
Supervised By :mohammad ahmed 10/07/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 95221 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 355308 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 201553 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.386 | 188 | 366474 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.027 | 240 | 196941 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.498 | 264 | 212758 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 718615 | 130.805 | ng | | 0.02 |
| 7) Phenol-d6 | 6.504 | 99 | 905488 | 122.562 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.433 | 82 | 668512 | 95.261 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 261240 | 134.268 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 1191480 | 90.752 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.974 | 244 | 1110204 | 92.498 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.840 | 88 | 105828 | 44.555 | ng | # | 78 |
| 3) Pyridine | 3.540 | 79 | 237065 | 41.039 | ng | | 97 |
| 4) n-Nitrosodimethylamine | 3.481 | 42 | 179623 | 47.504 | ng | | 94 |
| 6) Aniline | 6.534 | 93 | 150839 | 23.008 | ng | # | 85 |
| 8) 2-Chlorophenol | 6.657 | 128 | 290990 | 49.438 | ng | | 97 |
| 9) Benzaldehyde | 6.422 | 77 | 45199 | 11.549 | ng | | 98 |
| 10) Phenol | 6.522 | 94 | 341118 | 43.911 | ng | | 99 |
| 11) bis(2-Chloroethyl)ether | 6.604 | 93 | 291246 | 46.045 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.810 | 146 | 293293 | 44.294 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.886 | 146 | 303091 | 45.195 | ng | | 100 |
| 14) 1,2-Dichlorobenzene | 7.033 | 146 | 289437 | 46.050 | ng | | 99 |
| 15) Benzyl Alcohol | 7.010 | 79 | 279193 | 49.459 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.139 | 45 | 524147 | 47.867 | ng | | 90 |
| 17) 2-Methylphenol | 7.122 | 107 | 237972 | 48.430 | ng | | 99 |
| 18) Hexachloroethane | 7.375 | 117 | 115216 | 46.060 | ng | | 95 |
| 19) n-Nitroso-di-n-propyla... | 7.281 | 70 | 224935 | 47.356 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.275 | 107 | 291646 | 47.254 | ng | | 97 |
| 22) Acetophenone | 7.275 | 105 | 404695 | 47.984 | ng | | 98 |
| 24) Nitrobenzene | 7.451 | 77 | 338532 | 46.586 | ng | | 100 |
| 25) Isophorone | 7.686 | 82 | 612041 | 49.104 | ng | | 99 |
| 26) 2-Nitrophenol | 7.763 | 139 | 156000 | 49.936 | ng | | 98 |
| 27) 2,4-Dimethylphenol | 7.804 | 122 | 228712m | 59.804 | ng | | |
| 28) bis(2-Chloroethoxy)met... | 7.898 | 93 | 359907 | 48.356 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.010 | 162 | 250287 | 50.175 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.086 | 180 | 254477 | 45.110 | ng | | 100 |
| 31) Naphthalene | 8.169 | 128 | 860535 | 47.369 | ng | | 100 |
| 32) Benzoic acid | 7.933 | 122 | 180811 | 47.547 | ng | | 99 |
| 33) 4-Chloroaniline | 8.216 | 127 | 53016 | 8.622 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.280 | 225 | 165686 | 45.385 | ng | | 99 |
| 35) Caprolactam | 8.592 | 113 | 72364m | 44.229 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.710 | 107 | 273860 | 48.498 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.863 | 142 | 567455 | 47.961 | ng | | 100 |
| 38) 1-Methylnaphthalene | 8.963 | 142 | 525759 | 45.461 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.027 | 216 | 262879 | 46.969 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.010 | 237 | 298267 | 173.801 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.139 | 196 | 183317 | 48.587 | ng | | 98 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139650.D
Acq On : 04 Oct 2024 11:47
Operator : RC/JU
Sample : P4242-04MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 04 12:22:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

8

**Instrument :**
BNA_F
**ClientSampleId :**
TP-QMSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/07/2024
Supervised By :mohammad ahmed 10/07/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.186 | 196 | 197240 | 48.475 | ng | 98 |
| 46) 1,1'-Biphenyl | 9.327 | 154 | 705272 | 47.047 | ng | 99 |
| 47) 2-Chloronaphthalene | 9.351 | 162 | 526350 | 46.836 | ng | 99 |
| 48) 2-Nitroaniline | 9.445 | 65 | 200445 | 49.686 | ng | 98 |
| 49) Acenaphthylene | 9.769 | 152 | 874273 | 51.154 | ng | 100 |
| 50) Dimethylphthalate | 9.627 | 163 | 651283 | 49.363 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 9.692 | 165 | 140697 | 47.207 | ng | 95 |
| 52) Acenaphthene | 9.939 | 154 | 631656m | 53.836 | ng | |
| 53) 3-Nitroaniline | 9.857 | 138 | 58728 | 19.282 | ng | 98 |
| 54) 2,4-Dinitrophenol | 9.969 | 184 | 174641 | 108.942 | ng | 99 |
| 55) Dibenzofuran | 10.110 | 168 | 794683 | 48.375 | ng | 100 |
| 56) 4-Nitrophenol | 10.027 | 139 | 210435 | 90.601 | ng | 97 |
| 57) 2,4-Dinitrotoluene | 10.098 | 165 | 189024 | 48.520 | ng | 96 |
| 58) Fluorene | 10.451 | 166 | 618662 | 47.283 | ng | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.227 | 232 | 169658 | 51.625 | ng | 98 |
| 60) Diethylphthalate | 10.327 | 149 | 650450 | 47.730 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.445 | 204 | 301216 | 46.016 | ng | 98 |
| 62) 4-Nitroaniline | 10.474 | 138 | 139434 | 44.756 | ng | 100 |
| 63) Azobenzene | 10.604 | 77 | 653038 | 47.650 | ng | 100 |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198 | 110238 | 53.261 | ng | 97 |
| 66) n-Nitrosodiphenylamine | 10.563 | 169 | 546503 | 50.591 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 10.933 | 248 | 179963 | 47.895 | ng | 98 |
| 68) Hexachlorobenzene | 10.998 | 284 | 198640 | 47.641 | ng | 99 |
| 69) Atrazine | 11.092 | 200 | 161998 | 55.894 | ng | 99 |
| 70) Pentachlorophenol | 11.198 | 266 | 249208 | 100.378 | ng | 99 |
| 71) Phenanthrene | 11.416 | 178 | 868121 | 50.240 | ng | 100 |
| 72) Anthracene | 11.468 | 178 | 878301 | 51.379 | ng | 100 |
| 73) Carbazole | 11.621 | 167 | 800834 | 48.776 | ng | 100 |
| 74) Di-n-butylphthalate | 11.951 | 149 | 993175 | 49.744 | ng | 100 |
| 75) Fluoranthene | 12.604 | 202 | 868683 | 45.989 | ng | 99 |
| 77) Benzidine | 12.721 | 184 | 50633 | 14.576 | ng | 98 |
| 78) Pyrene | 12.833 | 202 | 870103 | 49.398 | ng | 100 |
| 80) Butylbenzylphthalate | 13.445 | 149 | 347016 | 55.078 | ng | 100 |
| 81) Benzo(a)anthracene | 14.015 | 228 | 658381 | 50.848 | ng | 100 |
| 82) 3,3'-Dichlorobenzidine | 13.980 | 252 | 133930 | 33.798 | ng | 99 |
| 83) Chrysene | 14.057 | 228 | 576168 | 48.672 | ng | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.004 | 149 | 457252 | 58.120 | ng | 100 |
| 85) Di-n-octyl phthalate | 14.615 | 149 | 698502 | 60.434 | ng | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 16.974 | 276 | 687466 | 54.899 | ng | 100 |
| 88) Benzo(b)fluoranthene | 15.068 | 252 | 654085 | 47.547 | ng | 98 |
| 89) Benzo(k)fluoranthene | 15.098 | 252 | 516365 | 44.250 | ng | 99 |
| 90) Benzo(a)pyrene | 15.439 | 252 | 568581 | 52.418 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 16.992 | 278 | 559665 | 53.885 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.421 | 276 | 506063 | 48.583 | ng | 100 |

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

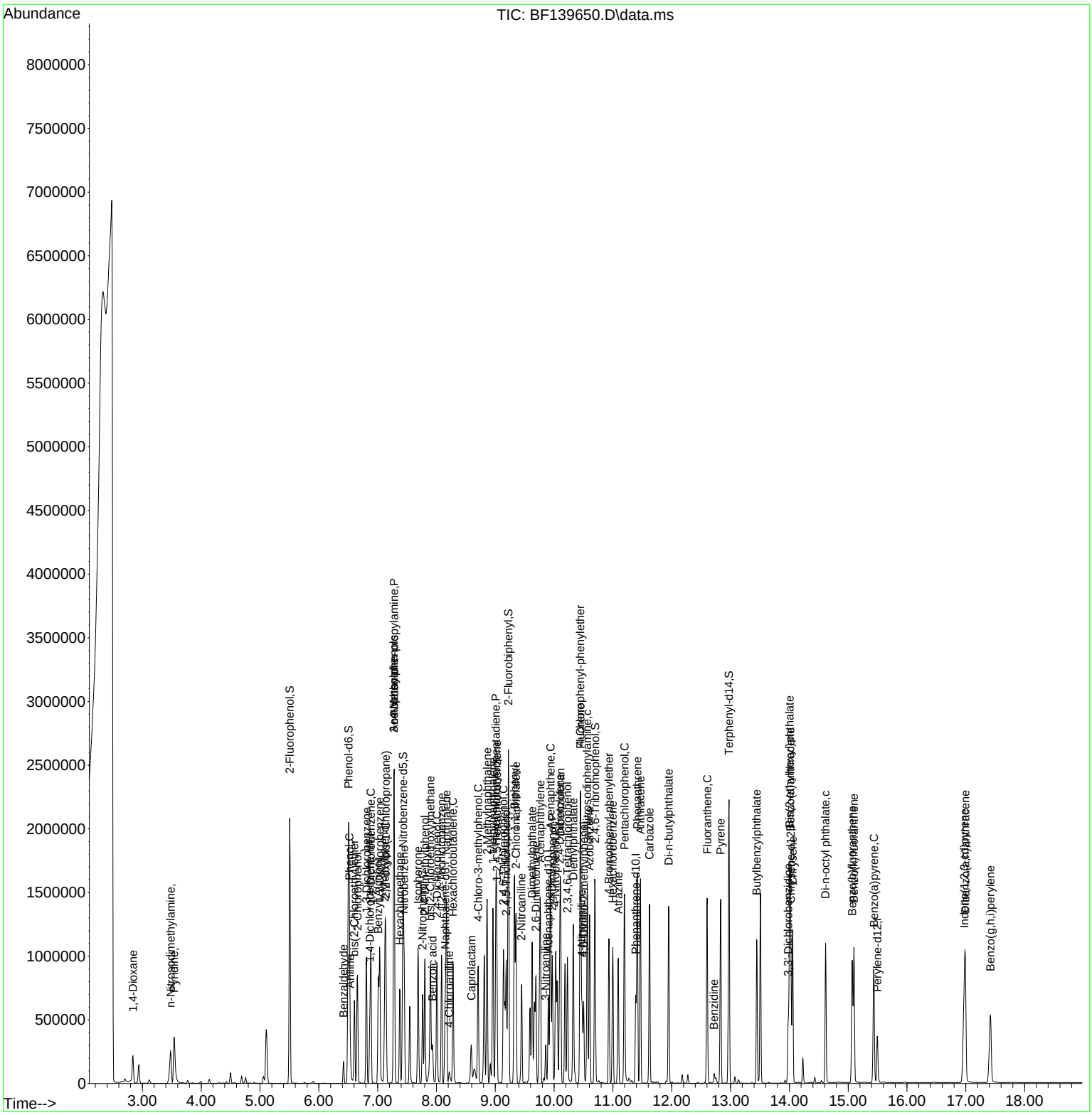
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100424\
Data File : BF139650.D
Acq On : 04 Oct 2024 11:47
Operator : RC/JU
Sample : P4242-04MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 04 12:22:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 02 04:58:47 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
TP-QMSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/07/2024
Supervised By :mohammad ahmed 10/07/2024



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



# Manual Integration Report

| Sequence: | BF100124 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC020 | BF139587.D | 2,4-Dimethylphenol | yogesh | 10/2/2024 8:47:02 AM | mohammad | 10/4/2024 1:06:18 AM | Peak Integrated by Software |
| SSTDICC080 | BF139591.D | 2,4-Dimethylphenol | yogesh | 10/2/2024 8:47:07 AM | mohammad | 10/4/2024 1:06:18 AM | Peak Integrated by Software |
| SSTDICC080 | BF139591.D | Caprolactam | yogesh | 10/2/2024 8:47:07 AM | mohammad | 10/4/2024 1:06:18 AM | Peak Integrated by Software |
| SSTDICV040 | BF139592.D | 2,4-Dimethylphenol | yogesh | 10/2/2024 8:47:10 AM | mohammad | 10/4/2024 1:06:18 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BF100424 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PB163883BS | BF139647.D | 2,4-Dimethylphenol | yogesh | 10/5/2024 3:00:10 AM | mohammad | 10/7/2024 7:11:42 AM | Peak Integrated by Software |
| PB163883BS | BF139647.D | Acenaphthene | yogesh | 10/5/2024 3:00:10 AM | mohammad | 10/7/2024 7:11:42 AM | Peak Integrated by Software |
| PB163883BS | BF139647.D | Caprolactam | yogesh | 10/5/2024 3:00:10 AM | mohammad | 10/7/2024 7:11:42 AM | Peak Integrated by Software |
| P4242-04MS | BF139649.D | 2,4-Dimethylphenol | yogesh | 10/5/2024 3:00:14 AM | mohammad | 10/7/2024 7:11:42 AM | Peak Integrated by Software |
| P4242-04MS | BF139649.D | Acenaphthene | yogesh | 10/5/2024 3:00:14 AM | mohammad | 10/7/2024 7:11:42 AM | Peak Integrated by Software |
| P4242-04MS | BF139649.D | Caprolactam | yogesh | 10/5/2024 3:00:14 AM | mohammad | 10/7/2024 7:11:42 AM | Peak Integrated by Software |
| P4242-04MSD | BF139650.D | 2,4-Dimethylphenol | yogesh | 10/7/2024 7:04:07 AM | mohammad | 10/7/2024 7:11:42 AM | Peak Integrated by Software |
| P4242-04MSD | BF139650.D | Acenaphthene | yogesh | 10/7/2024 7:04:07 AM | mohammad | 10/7/2024 7:11:42 AM | Peak Integrated by Software |
| P4242-04MSD | BF139650.D | Caprolactam | yogesh | 10/7/2024 7:04:07 AM | mohammad | 10/7/2024 7:11:42 AM | Peak Integrated by Software |

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Fax : 908 789 8922



**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF100124

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/2/2024 8:47:29 AM | | | | |
| Supervise By | mohammad | Supervise On | 10/4/2024 1:06:18 AM | | | | |
| SubDirectory | BF100124 | HP Acquire Method | BNA_F | | HP Processing Method | bf100124 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12316,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF139583.D | 01 Oct 2024 13:38 | RC/JU | Ok |
| 2 | SSTDICC2.5 | BF139584.D | 01 Oct 2024 14:05 | RC/JU | Ok |
| 3 | SSTDICC005 | BF139585.D | 01 Oct 2024 14:34 | RC/JU | Ok |
| 4 | SSTDICC010 | BF139586.D | 01 Oct 2024 15:02 | RC/JU | Ok |
| 5 | SSTDICC020 | BF139587.D | 01 Oct 2024 15:30 | RC/JU | Ok,M |
| 6 | SSTDICCC040 | BF139588.D | 01 Oct 2024 15:58 | RC/JU | Ok |
| 7 | SSTDICC050 | BF139589.D | 01 Oct 2024 16:25 | RC/JU | Ok |
| 8 | SSTDICC060 | BF139590.D | 01 Oct 2024 16:54 | RC/JU | Ok |
| 9 | SSTDICC080 | BF139591.D | 01 Oct 2024 17:22 | RC/JU | Ok,M |
| 10 | SSTDICV040 | BF139592.D | 01 Oct 2024 17:50 | RC/JU | Ok,M |
| 11 | PB163784BL | BF139593.D | 01 Oct 2024 18:19 | RC/JU | Not Ok |

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 # BF100424

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/5/2024 3:00:40 AM | | | | |
| Supervise By | mohammad | Supervise On | 10/7/2024 7:11:42 AM | | | | |
| SubDirectory | BF100424 | HP Acquire Method | BNA_F | | HP Processing Method | bf100124 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12316,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF139643.D | 04 Oct 2024 08:33 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF139644.D | 04 Oct 2024 09:01 | RC/JU | Ok |
| 3 | PB163883BL | BF139645.D | 04 Oct 2024 09:29 | RC/JU | Ok |
| 4 | PB163851TB | BF139646.D | 04 Oct 2024 09:56 | RC/JU | Ok |
| 5 | PB163883BS | BF139647.D | 04 Oct 2024 10:24 | RC/JU | Ok,M |
| 6 | P4242-04 | BF139648.D | 04 Oct 2024 10:52 | RC/JU | Ok |
| 7 | P4242-04MS | BF139649.D | 04 Oct 2024 11:19 | RC/JU | Ok,M |
| 8 | P4242-04MSD | BF139650.D | 04 Oct 2024 11:47 | RC/JU | Ok,M |
| 9 | DFTPP | BF139651.D | 04 Oct 2024 12:15 | RC/JU | Ok |
| 10 | SSTDCCC040 | BF139652.D | 04 Oct 2024 12:43 | RC/JU | Ok |
| 11 | PB163834BL | BF139653.D | 04 Oct 2024 13:11 | RC/JU | Ok |
| 12 | PB163834BS | BF139654.D | 04 Oct 2024 13:39 | RC/JU | Ok,M |
| 13 | P4258-04 | BF139655.D | 04 Oct 2024 14:07 | RC/JU | Ok |
| 14 | P4270-04 | BF139656.D | 04 Oct 2024 14:34 | RC/JU | Ok |
| 15 | P4276-02 | BF139657.D | 04 Oct 2024 15:03 | RC/JU | ReRun |
| 16 | P4236-08 | BF139658.D | 04 Oct 2024 15:32 | RC/JU | Ok |
| 17 | P4236-12 | BF139659.D | 04 Oct 2024 16:00 | RC/JU | Ok |
| 18 | P4236-16 | BF139660.D | 04 Oct 2024 16:29 | RC/JU | Ok |
| 19 | P4254-04 | BF139661.D | 04 Oct 2024 16:58 | RC/JU | Ok |
| 20 | P4222-01 | BF139662.D | 04 Oct 2024 17:26 | RC/JU | Ok |
| 21 | P4254-05 | BF139663.D | 04 Oct 2024 17:55 | RC/JU | Ok |

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Fax : 908 789 8922



**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF100424

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/5/2024 3:00:40 AM | | |
| Supervise By | mohammad | Supervise On | 10/7/2024 7:11:42 AM | | |
| SubDirectory | BF100424 | HP Acquire Method | BNA_F | HP Processing Method | bf100124 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12316,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4257-01 | BF139664.D | 04 Oct 2024 18:23 | RC/JU | Ok,M |
| 23 | P4255-01 | BF139665.D | 04 Oct 2024 18:51 | RC/JU | Ok,M |
| 24 | P4273-01 | BF139666.D | 04 Oct 2024 19:19 | RC/JU | Ok,M |
| 25 | P4242-01MSD | BF139667.D | 04 Oct 2024 19:48 | RC/JU | Ok |
| 26 | P4242-01 | BF139668.D | 04 Oct 2024 20:16 | RC/JU | Ok |
| 27 | P4242-01MS | BF139669.D | 04 Oct 2024 20:44 | RC/JU | Ok |
| 28 | P4236-01 | BF139670.D | 04 Oct 2024 21:12 | RC/JU | Ok |
| 29 | P4236-01MS | BF139671.D | 04 Oct 2024 21:41 | RC/JU | Ok,M |
| 30 | P4236-01MSD | BF139672.D | 04 Oct 2024 22:09 | RC/JU | Ok,M |
| 31 | P4254-01 | BF139673.D | 04 Oct 2024 22:38 | RC/JU | Ok |
| 32 | P4276-01 | BF139674.D | 04 Oct 2024 23:07 | RC/JU | Ok,M |
| 33 | P4277-01 | BF139675.D | 04 Oct 2024 23:36 | RC/JU | Ok,M |

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 # BF100124

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/2/2024 8:47:29 AM | | |
| Supervise By | mohammad | Supervise On | 10/4/2024 1:06:18 AM | | |
| SubDirectory | BF100124 | HP Acquire Method | BNA_F | HP Processing Method | bf100124 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12316,10ul/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 | BF139583.D | 01 Oct 2024 13:38 | | RC/JU | Ok |
| 2 | SSTDICC2.5 | SSTDICC2.5 | BF139584.D | 01 Oct 2024 14:05 | | RC/JU | Ok |
| 3 | SSTDICC005 | SSTDICC005 | BF139585.D | 01 Oct 2024 14:34 | | RC/JU | Ok |
| 4 | SSTDICC010 | SSTDICC010 | BF139586.D | 01 Oct 2024 15:02 | | RC/JU | Ok |
| 5 | SSTDICC020 | SSTDICC020 | BF139587.D | 01 Oct 2024 15:30 | Method is Fail for Com#77 both DOD and NON-DOD | RC/JU | Ok,M |
| 6 | SSTDICCC040 | SSTDICCC040 | BF139588.D | 01 Oct 2024 15:58 | The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method | RC/JU | Ok |
| 7 | SSTDICC050 | SSTDICC050 | BF139589.D | 01 Oct 2024 16:25 | | RC/JU | Ok |
| 8 | SSTDICC060 | SSTDICC060 | BF139590.D | 01 Oct 2024 16:54 | Compound #69 removed from 60ppm | RC/JU | Ok |
| 9 | SSTDICC080 | SSTDICC080 | BF139591.D | 01 Oct 2024 17:22 | Compound #6,69 removed from 80ppm | RC/JU | Ok,M |
| 10 | SSTDICV040 | ICVBF100124 | BF139592.D | 01 Oct 2024 17:50 | | RC/JU | Ok,M |
| 11 | PB163784BL | PB163784BL | BF139593.D | 01 Oct 2024 18:19 | Internal standard not added - Analyzed for Contamination check only. | RC/JU | Not Ok |

M : Manual Integration

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Fax : 908 789 8922



**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF100424

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/5/2024 3:00:40 AM | | |
| Supervise By | mohammad | Supervise On | 10/7/2024 7:11:42 AM | | |
| SubDirectory | BF100424 | HP Acquire Method | BNA_F | HP Processing Method | bf100124 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12316,10ul/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 | BF139643.D | 04 Oct 2024 08:33 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF139644.D | 04 Oct 2024 09:01 | | RC/JU | Ok |
| 3 | PB163883BL | PB163883BL | BF139645.D | 04 Oct 2024 09:29 | | RC/JU | Ok |
| 4 | PB163851TB | PB163851TB | BF139646.D | 04 Oct 2024 09:56 | | RC/JU | Ok |
| 5 | PB163883BS | PB163883BS | BF139647.D | 04 Oct 2024 10:24 | | RC/JU | Ok,M |
| 6 | P4242-04 | TP-Q | BF139648.D | 04 Oct 2024 10:52 | | RC/JU | Ok |
| 7 | P4242-04MS | TP-QMS | BF139649.D | 04 Oct 2024 11:19 | | RC/JU | Ok,M |
| 8 | P4242-04MSD | TP-QMSD | BF139650.D | 04 Oct 2024 11:47 | | RC/JU | Ok,M |
| 9 | DFTPP | DFTPP | BF139651.D | 04 Oct 2024 12:15 | | RC/JU | Ok |
| 10 | SSTDCCC040 | SSTDCCC040 | BF139652.D | 04 Oct 2024 12:43 | | RC/JU | Ok |
| 11 | PB163834BL | PB163834BL | BF139653.D | 04 Oct 2024 13:11 | | RC/JU | Ok |
| 12 | PB163834BS | PB163834BS | BF139654.D | 04 Oct 2024 13:39 | | RC/JU | Ok,M |
| 13 | P4258-04 | Chamberlain Ave | BF139655.D | 04 Oct 2024 14:07 | | RC/JU | Ok |
| 14 | P4270-04 | IB-2 | BF139656.D | 04 Oct 2024 14:34 | | RC/JU | Ok |
| 15 | P4276-02 | VNJ-208 | BF139657.D | 04 Oct 2024 15:03 | Internal Standard and Surrogate Fail | RC/JU | ReRun |
| 16 | P4236-08 | TP3 | BF139658.D | 04 Oct 2024 15:32 | | RC/JU | Ok |
| 17 | P4236-12 | TP1 | BF139659.D | 04 Oct 2024 16:00 | | RC/JU | Ok |

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Fax : 908 789 8922



**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF100424

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/5/2024 3:00:40 AM | | |
| Supervise By | mohammad | Supervise On | 10/7/2024 7:11:42 AM | | |
| SubDirectory | BF100424 | HP Acquire Method | BNA_F | HP Processing Method | bf100124 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12316,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | P4236-16 | TP2 | BF139660.D | 04 Oct 2024 16:29 | | RC/JU | Ok |
| 19 | P4254-04 | MH-147-SLUDGE | BF139661.D | 04 Oct 2024 16:58 | | RC/JU | Ok |
| 20 | P4222-01 | TP-5 | BF139662.D | 04 Oct 2024 17:26 | | RC/JU | Ok |
| 21 | P4254-05 | MH-147 | BF139663.D | 04 Oct 2024 17:55 | | RC/JU | Ok |
| 22 | P4257-01 | VNJ-240 | BF139664.D | 04 Oct 2024 18:23 | | RC/JU | Ok,M |
| 23 | P4255-01 | OR-03-100124 | BF139665.D | 04 Oct 2024 18:51 | | RC/JU | Ok,M |
| 24 | P4273-01 | AU-05-100224 | BF139666.D | 04 Oct 2024 19:19 | | RC/JU | Ok,M |
| 25 | P4242-01MSD | TP-QMSD | BF139667.D | 04 Oct 2024 19:48 | | RC/JU | Ok |
| 26 | P4242-01 | TP-Q | BF139668.D | 04 Oct 2024 20:16 | | RC/JU | Ok |
| 27 | P4242-01MS | TP-QMS | BF139669.D | 04 Oct 2024 20:44 | | RC/JU | Ok |
| 28 | P4236-01 | TP4 | BF139670.D | 04 Oct 2024 21:12 | | RC/JU | Ok |
| 29 | P4236-01MS | TP4MS | BF139671.D | 04 Oct 2024 21:41 | | RC/JU | Ok,M |
| 30 | P4236-01MSD | TP4MSD | BF139672.D | 04 Oct 2024 22:09 | | RC/JU | Ok,M |
| 31 | P4254-01 | MH-147-SLUDGE | BF139673.D | 04 Oct 2024 22:38 | | RC/JU | Ok |
| 32 | P4276-01 | VNJ-208 | BF139674.D | 04 Oct 2024 23:07 | | RC/JU | Ok,M |
| 33 | P4277-01 | BU-03-10022024 | BF139675.D | 04 Oct 2024 23:36 | | RC/JU | Ok,M |

M : Manual Integration

Alliance TECHNICAL GROUP

# TCLP EXTRACTION LOGPAGE

PB163851

**SOP ID :** M1311-TCLP-14

**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 :** 10/02/2024 **Time :** 17:35

**End Prep Date :** 10/03/2024 **Time :** 10:25

**Combination Ratio :** 20

**ZHE Cleaning Batch :** N/A

**Initial Room Temperature:** 23 °C

**Final Room Temperature:** 22 °C

**TCLP Technician Signature :** JP

**Supervisor By :** IZ

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE U | Lot Number |
|---|---|---|
| TCLP-FLUID-1 | N/A | WP108622 |
| HCL-TCLP,1N | N/A | WP108584 |
| HNO3-TCLP,1N | N/A | WP108585 |
| pH Strips | N/A | W1931,W1934,W2350,W2755 |
| pH Strips | N/A | W1937,W1938,W1939,W1940,W1941,W1942 |
| 1 Liter Amber | N/A | 23091 |
| 120ml Plastic bottle | N/A | 21029 |
| 1:1 HNO3 | MP81119 | N/A |

**Extraction Conformance/Non-Conformance Comments:**

Matrix spikes are added after fiftation and before preservation. TUMBLER T-1 checked,30 rpm. p4276-02 is used for MS-MSD Particle size reduction is not required.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/03/24 11:00 | JP / TCLP Room | JP 10/3 IEXT |
| | Preparation Group | Analysis Group 10/4 DLS |

Alliance TECHNICAL GROUP

**TCLP EXTRACTION LOGPAGE**

PB163851

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 01 | 100.02 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4254-04 | MH-147-SLUDGE | 02 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.0 | T-1 |
| P4258-04 | Chamberlain Ave | 03 | 100.04 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4270-04 | IB-2 | 04 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.0 | T-1 |
| P4276-02 | VNJ-208 | 05 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| PB163851TB | LEB851 | 06 | N/A | 2000 | N/A | N/A | N/A | 4.94 | 1.0 | T-1 |

Alliance TECHNICAL GROUP

**TCLP Solid Determination**

PB163851

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | N/A | N/A | N/A | N/A | 100 | N/A |
| P4254-04 | MH-147-SLUDGE | N/A | N/A | N/A | N/A | 100 | N/A |
| P4258-04 | Chamberlain Ave | N/A | N/A | N/A | N/A | 100 | N/A |
| P4270-04 | IB-2 | N/A | N/A | N/A | N/A | 100 | N/A |
| P4276-02 | VNJ-208 | N/A | N/A | N/A | N/A | 100 | N/A |
| PB163851TB | LEB851 | N/A | N/A | N/A | N/A | N/A | N/A |

Alliance TECHNICAL GROUP

**TCLP Fluid Determination**

PB163851

**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 |
|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 5.02 | 96.5 | 7.6 | 2.0 | #1 | 4.93 |
| P4254-04 | MH-147-SLUDGE | 5.01 | 96.5 | 6.6 | 1.5 | #1 | 4.93 |
| P4258-04 | Chamberlain Ave | 5.03 | 96.5 | 7.6 | 2.0 | #1 | 4.93 |
| P4270-04 | IB-2 | 5.02 | 96.5 | 8.4 | 3.0 | #1 | 4.93 |
| P4276-02 | VNJ-208 | 5.02 | 96.5 | 9.0 | 4.0 | #1 | 4.93 |
| PB163851TB | LEB851 | N/A | N/A | N/A | N/A | #1 | 4.93 |

P4258

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** tclp p4258 **WorkList ID :** 184036 **Department :** TCLP Extraction **Date :** 10-02-2024 09:43:17

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 1311 |
| P4254-04 | MH-147-SLUDGE | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 1311 |
| P4258-04 | Chamberlain Ave | Solid | TCLP Extraction | Cool 4 deg C | ROMA02 | H11 | 10/01/2024 | 1311 |
| P4270-04 | IB-2 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J51 | 10/02/2024 | 1311 |
| P4276-02 | VNJ-208 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J53 | 10/02/2024 | 1311 |

407 of 1157

**Date/Time** 10/02/24 16:30
**Raw Sample Received by:**
**Raw Sample Relinquished by:**

**Date/Time** 10/02/24 19:00
**Raw Sample Received by:**
**Raw Sample Relinquished by:**

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB163883

8

**SOP ID:** M3510C,3580A-Extraction SVOC-20

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** EH

**Balance check:** RJ

**Balance ID:** EX-SC-2

**pH Strip Lot#:** N/A

**Extraction By:** RJ

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 3,7

**Extraction Start Date :** 10/03/2024

**Extraction Start Time :** 11:30

**Extraction End Date :** 10/03/2024

**Extraction End Time :** 16:25

**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 | 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 | E3803 |
| Baked Na2SO4 | N/A | EP2541 |
| 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 |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

1.5 ML Vial lot# 2210673pHAdjusted<2 with 1:1 H2SO4 & >11with 10 N NaOH.

**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 |
|---|---|---|
| 10/3/24 | RP (Sol. Lab) | AC/SVOC |
| 16:30 | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB163883**

**Analytical Method:** M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 10/01/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB163851TB | PB163851TB | TCLP BNA | 100 | 6 | RUPESH | ritesh | 1 | | | SEP-01 |
| PB163883BL | PB163883BL | TCLP BNA | 1000 | 6 | RUPESH | ritesh | 1 | | | 2 |
| PB163883BS | PB163883BS | TCLP BNA | 1000 | 6 | RUPESH | ritesh | 1 | | | 3 |
| P4242-04 | TP-Q | TCLP BNA | 100 | 6 | RUPESH | ritesh | 1 | A | | 4 |
| P4242-04MS | TP-QMS | TCLP BNA | 100 | 6 | RUPESH | ritesh | 1 | A | | 5 |
| P4242-04MSD | TP-QMSD | TCLP BNA | 100 | 6 | RUPESH | ritesh | 1 | A | | 6 |
| P4254-04 | MH-147-SLUDGE | TCLP BNA | 100 | 6 | RUPESH | ritesh | 1 | A | | 7 |
| P4258-04 | CHAMBERLAIN AVE | TCLP BNA | 100 | 6 | RUPESH | ritesh | 1 | A | | 8 |
| P4270-04 | IB-2 | TCLP BNA | 100 | 6 | RUPESH | ritesh | 1 | A | | 9 |
| P4276-02 | VNJ-208 | TCLP BNA | 100 | 6 | RUPESH | ritesh | 1 | A | | 10 |

* **Extracts relinguished on the same date as received.**

10/3/24

Alliance TECHNICAL GROUP

**TCLP EXTRACTION LOGPAGE**

PB163851

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 01 | 100.02 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4254-04 | MH-147-SLUDGE | 02 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.0 | T-1 |
| P4258-04 | Chamberlain Ave | 03 | 100.04 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4270-04 | IB-2 | 04 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.0 | T-1 |
| P4276-02 | VNJ-208 | 05 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| PB163851TB | LEB851 | 06 | N/A | 2000 | N/A | N/A | N/A | 4.94 | 1.0 | T-1 |

10/03/24
22:00

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP BNA | 8270E | | 10/03/24 | 10/04/24 | |

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Fax : 908 789 8922



# Hit Summary Sheet
**SW-846**

**SDG No.:** P4258 **Order ID:** P4258

**Client:** Roman E&G Corp **Project ID:** Perth Amboy

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : Chamberlain Ave** | | | | | | | | |
| P4258-03 | Chamberlain Ave | SOIL | 4,4-DDE | 0.31 | J | 0.15 | 2.00 | ug/kg |
| P4258-03 | Chamberlain Ave | SOIL | 4,4-DDD | 0.27 | J | 0.22 | 2.00 | ug/kg |
| P4258-03 | Chamberlain Ave | SOIL | 4,4-DDT | 0.54 | JP | 0.20 | 2.00 | ug/kg |
| P4258-03 | Chamberlain Ave | SOIL | alpha-Chlordane | 0.80 | JP | 0.20 | 2.00 | ug/kg |
| P4258-03 | Chamberlain Ave | SOIL | gamma-Chlordane | 0.42 | J | 0.22 | 2.00 | ug/kg |
| | | | **Total Concentration:** | **2.340** | | | | |

# SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 86 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092333.D | 1 | 10/11/24 09:00 | 10/11/24 13:51 | PB164067 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.21 | U | 0.21 | 2.00 | ug/kg |
| 319-85-7 | beta-BHC | 0.57 | U | 0.57 | 2.00 | ug/kg |
| 319-86-8 | delta-BHC | 0.55 | U | 0.55 | 2.00 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.22 | U | 0.22 | 2.00 | ug/kg |
| 76-44-8 | Heptachlor | 0.20 | U | 0.20 | 2.00 | ug/kg |
| 309-00-2 | Aldrin | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.27 | U | 0.27 | 2.00 | ug/kg |
| 959-98-8 | Endosulfan I | 0.20 | U | 0.20 | 2.00 | ug/kg |
| 60-57-1 | Dieldrin | 0.17 | U | 0.17 | 2.00 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.31 | J | 0.15 | 2.00 | ug/kg |
| 72-20-8 | Endrin | 0.19 | U | 0.19 | 2.00 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.35 | U | 0.35 | 2.00 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.27 | J | 0.22 | 2.00 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.15 | U | 0.15 | 2.00 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.54 | JP | 0.20 | 2.00 | ug/kg |
| 72-43-5 | Methoxychlor | 0.44 | U | 0.44 | 2.00 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.26 | U | 0.26 | 2.00 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.45 | U | 0.45 | 2.00 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.80 | JP | 0.20 | 2.00 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.42 | J | 0.22 | 2.00 | ug/kg |
| 8001-35-2 | Toxaphene | 6.10 | U | 6.10 | 38.3 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.7 | | 10 - 148 | 98% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.9 | | 10 - 159 | 99% | SPK: 20 |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 86 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092333.D | 1 | 10/11/24 09:00 | 10/11/24 13:51 | PB164067 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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

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## Surrogate Summary

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PL091953.D | PIBLK-PL091953.D | Decachlorobiphenyl | 1 | 20 | 19.6 | 98 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.0 | 95 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 18.7 | 94 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.3 | 92 | | 77 | 126 |
| I.BLK-PL092329.D | PIBLK-PL092329.D | Decachlorobiphenyl | 1 | 20 | 23.8 | 119 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.3 | 107 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 22.1 | 110 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.6 | 103 | | 77 | 126 |
| PB164067BL | PB164067BL | Decachlorobiphenyl | 1 | 20 | 19.6 | 98 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.0 | 95 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 19.6 | 98 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.1 | 90 | | 10 | 159 |
| PB164067BS | PB164067BS | Decachlorobiphenyl | 1 | 20 | 22.0 | 110 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.7 | 103 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 21.3 | 106 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.9 | 100 | | 10 | 159 |
| P4258-03 | Chamberlain Ave | Decachlorobiphenyl | 1 | 20 | 19.7 | 98 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.9 | 99 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 18.7 | 93 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.4 | 97 | | 10 | 159 |
| P4385-04MS | SP-2MS | Decachlorobiphenyl | 1 | 20 | 16.9 | 85 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 16.4 | 82 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 15.7 | 78 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 16.3 | 81 | | 10 | 159 |
| P4385-04MSD | SP-2MSD | Decachlorobiphenyl | 1 | 20 | 16.8 | 84 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 16.6 | 83 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 15.6 | 78 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 15.9 | 79 | | 10 | 159 |
| I.BLK-PL092346.D | PIBLK-PL092346.D | Decachlorobiphenyl | 1 | 20 | 21.1 | 105 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.4 | 107 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 19.7 | 99 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.2 | 106 | | 77 | 126 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8081B **DataFile :** PL092336.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:** | **SP-2MS** | | | | | | | | | | | |
| P4385-04MS | alpha-BHC | 17.5 | 0 | 15.6 | ug/kg | 89 | | | | 60 | 144 | |
| | beta-BHC | 17.5 | 0 | 16.0 | ug/kg | 91 | | | | 54 | 143 | |
| | delta-BHC | 17.5 | 0 | 14.7 | ug/kg | 84 | | | | 47 | 144 | |
| | gamma-BHC (Lindane) | 17.5 | 0 | 15.2 | ug/kg | 87 | | | | 61 | 140 | |
| | Heptachlor | 17.5 | 0 | 16.0 | ug/kg | 91 | | | | 63 | 135 | |
| | Aldrin | 17.5 | 0 | 15.3 | ug/kg | 87 | | | | 49 | 139 | |
| | Heptachlor epoxide | 17.5 | 0 | 15.5 | ug/kg | 89 | | | | 32 | 180 | |
| | Endosulfan I | 17.5 | 0 | 15.6 | ug/kg | 89 | | | | 56 | 142 | |
| | Dieldrin | 17.5 | 0.94 | 16.7 | ug/kg | 90 | | | | 47 | 161 | |
| | 4,4'-DDE | 17.5 | 30.6 | 43.0 | ug/kg | 71 | | | | 55 | 136 | |
| | Endrin | 17.5 | 0 | 16.9 | ug/kg | 97 | | | | 57 | 139 | |
| | Endosulfan II | 17.5 | 0 | 16.0 | ug/kg | 91 | | | | 40 | 163 | |
| | 4,4'-DDD | 17.5 | 4 | 19.2 | ug/kg | 87 | | | | 37 | 192 | |
| | Endosulfan sulfate | 17.5 | 0 | 16.1 | ug/kg | 92 | | | | 62 | 139 | |
| | 4,4'-DDT | 17.5 | 26 | 39.9 | ug/kg | 79 | | | | 51 | 146 | |
| | Methoxychlor | 17.5 | 0 | 16.3 | ug/kg | 93 | | | | 54 | 136 | |
| | Endrin ketone | 17.5 | 0 | 21.2 | ug/kg | 121 | | | | 60 | 129 | |
| | Endrin aldehyde | 17.5 | 0 | 16.3 | ug/kg | 93 | | | | 59 | 132 | |
| | alpha-Chlordane | 17.5 | 0 | 15.9 | ug/kg | 91 | | | | 30 | 192 | |
| | gamma-Chlordane | 17.5 | 0 | 16.4 | ug/kg | 94 | | | | 44 | 175 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8081B **DataFile :** PL092337.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **SP-2MSD** | | | | | | | | | | | |
| P4385-04MSD | alpha-BHC | 17.51 | 0 | 15.5 | ug/kg | 89 | | 0 | | 60 | 144 | 20 |
| | beta-BHC | 17.51 | 0 | 15.8 | ug/kg | 90 | | 1 | | 54 | 143 | 20 |
| | delta-BHC | 17.51 | 0 | 14.6 | ug/kg | 83 | | 1 | | 47 | 144 | 20 |
| | gamma-BHC (Lindane) | 17.51 | 0 | 15.1 | ug/kg | 86 | | 1 | | 61 | 140 | 20 |
| | Heptachlor | 17.51 | 0 | 15.9 | ug/kg | 91 | | 0 | | 63 | 135 | 20 |
| | Aldrin | 17.51 | 0 | 15.2 | ug/kg | 87 | | 0 | | 49 | 139 | 20 |
| | Heptachlor epoxide | 17.51 | 0 | 15.5 | ug/kg | 89 | | 0 | | 32 | 180 | 20 |
| | Endosulfan I | 17.51 | 0 | 15.5 | ug/kg | 89 | | 0 | | 56 | 142 | 20 |
| | Dieldrin | 17.51 | 0.94 | 16.6 | ug/kg | 89 | | 1 | | 47 | 161 | 20 |
| | 4,4'-DDE | 17.51 | 30.6 | 43.3 | ug/kg | 73 | | 3 | | 55 | 136 | 20 |
| | Endrin | 17.51 | 0 | 16.8 | ug/kg | 96 | | 1 | | 57 | 139 | 20 |
| | Endosulfan II | 17.51 | 0 | 16.0 | ug/kg | 91 | | 0 | | 40 | 163 | 20 |
| | 4,4'-DDD | 17.51 | 4 | 18.9 | ug/kg | 85 | | 2 | | 37 | 192 | 20 |
| | Endosulfan sulfate | 17.51 | 0 | 16.1 | ug/kg | 92 | | 0 | | 62 | 139 | 20 |
| | 4,4'-DDT | 17.51 | 26 | 39.7 | ug/kg | 78 | | 1 | | 51 | 146 | 20 |
| | Methoxychlor | 17.51 | 0 | 16.2 | ug/kg | 93 | | 0 | | 54 | 136 | 20 |
| | Endrin ketone | 17.51 | 0 | 22.6 | ug/kg | 129 | | 6 | | 60 | 129 | 20 |
| | Endrin aldehyde | 17.51 | 0 | 16.2 | ug/kg | 93 | | 0 | | 59 | 132 | 20 |
| | alpha-Chlordane | 17.51 | 0 | 15.9 | ug/kg | 91 | | 0 | | 30 | 192 | 20 |
| | gamma-Chlordane | 17.51 | 0 | 16.2 | ug/kg | 93 | | 1 | | 44 | 175 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8081B **Datafile :** PL092332.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164067BS | alpha-BHC | 16.66 | 16.8 | ug/kg | 101 | | | | 84 | 123 | |
| | beta-BHC | 16.66 | 16.8 | ug/kg | 101 | | | | 82 | 123 | |
| | delta-BHC | 16.66 | 16.4 | ug/kg | 98 | | | | 83 | 126 | |
| | gamma-BHC (Lindane) | 16.66 | 16.2 | ug/kg | 97 | | | | 83 | 125 | |
| | Heptachlor | 16.66 | 16.7 | ug/kg | 100 | | | | 83 | 122 | |
| | Aldrin | 16.66 | 16.2 | ug/kg | 97 | | | | 82 | 124 | |
| | Heptachlor epoxide | 16.66 | 17.3 | ug/kg | 104 | | | | 83 | 120 | |
| | Endosulfan I | 16.66 | 17.2 | ug/kg | 103 | | | | 81 | 124 | |
| | Dieldrin | 16.66 | 17.3 | ug/kg | 104 | | | | 85 | 121 | |
| | 4,4'-DDE | 16.66 | 17.6 | ug/kg | 106 | | | | 81 | 123 | |
| | Endrin | 16.66 | 16.3 | ug/kg | 98 | | | | 76 | 130 | |
| | Endosulfan II | 16.66 | 17.5 | ug/kg | 105 | | | | 80 | 125 | |
| | 4,4'-DDD | 16.66 | 18.9 | ug/kg | 113 | | | | 80 | 131 | |
| | Endosulfan sulfate | 16.66 | 17.1 | ug/kg | 103 | | | | 81 | 122 | |
| | 4,4'-DDT | 16.66 | 16.2 | ug/kg | 97 | | | | 70 | 129 | |
| | Methoxychlor | 16.66 | 16.3 | ug/kg | 98 | | | | 60 | 119 | |
| | Endrin ketone | 16.66 | 17.4 | ug/kg | 104 | | | | 77 | 132 | |
| | Endrin aldehyde | 16.66 | 16.6 | ug/kg | 100 | | | | 79 | 124 | |
| | alpha-Chlordane | 16.66 | 17.2 | ug/kg | 103 | | | | 84 | 120 | |
| | gamma-Chlordane | 16.66 | 17.4 | ug/kg | 104 | | | | 83 | 122 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164067BL

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab Sample ID: PB164067BL Lab File ID: PL092331.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/11/2024

Date Analyzed (1): 10/11/2024 Date Analyzed (2): 10/11/2024

Time Analyzed (1): 13:24 Time Analyzed (2): 13:24

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 |
|---|---|---|---|---|
| PB164067BS | PB164067BS | PL092332.D | 10/11/2024 | 10/11/2024 |
| Chamberlain Ave | P4258-03 | PL092333.D | 10/11/2024 | 10/11/2024 |
| SP-2MS | P4385-04MS | PL092336.D | 10/11/2024 | 10/11/2024 |
| SP-2MSD | P4385-04MSD | PL092337.D | 10/11/2024 | 10/11/2024 |

COMMENTS:

# QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | PB164067BL | SDG No.: | P4258 |
| Lab Sample ID: | PB164067BL | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092331.D | 1 | 10/11/24 09:00 | 10/11/24 13:24 | PB164067 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.18 | U | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 0.49 | U | 0.49 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 0.47 | U | 0.47 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.23 | U | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.30 | U | 0.30 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 0.38 | U | 0.38 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.22 | U | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.39 | U | 0.39 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.20 | U | 5.20 | 33.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.6 | | 10 - 148 | 98% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.0 | | 10 - 159 | 95% | SPK: 20 |

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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | PB164067BL | | SDG No.: | P4258 | |
| Lab Sample ID: | PB164067BL | | Matrix: | SOIL | |
| Analytical Method: | SW8081 | | % Solid: | 100 | Decanted: |
| Sample Wt/Vol: | 30.03 | Units: g | Final Vol: | 10000 | uL |
| Soil Aliquot Vol: | | uL | Test: | Pesticide-TCL | |
| Extraction Type: | | | Injection Volume : | | |
| GPC Factor : | 1.0 | PH : | | | |
| Prep Method : | SW3541B | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092331.D | 1 | 10/11/24 09:00 | 10/11/24 13:24 | PB164067 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 09/23/24 |
| Project: | Perth Amboy | Date Received: | 09/23/24 |
| Client Sample ID: | PIBLK-PL091953.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PL091953.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL091953.D | 1 | | 09/23/24 | PL092324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 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 |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.6 | | 43 - 140 | 98% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.0 | | 77 - 126 | 95% | SPK: 20 |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 09/23/24 |
| Project: | Perth Amboy | Date Received: | 09/23/24 |
| Client Sample ID: | PIBLK-PL091953.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PL091953.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL091953.D | 1 | | 09/23/24 | PL092324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/11/24 |
| Project: | Perth Amboy | Date Received: | 10/11/24 |
| Client Sample ID: | PIBLK-PL092329.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PL092329.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092329.D | 1 | | 10/11/24 | PL101224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 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 |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 23.8 | | 43 - 140 | 119% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.3 | | 77 - 126 | 107% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/11/24 |
| Project: | Perth Amboy | Date Received: | 10/11/24 |
| Client Sample ID: | PIBLK-PL092329.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PL092329.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092329.D | 1 | | 10/11/24 | PL101224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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
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: | Roman E&G Corp | Date Collected: | 10/11/24 |
| Project: | Perth Amboy | Date Received: | 10/11/24 |
| Client Sample ID: | PIBLK-PL092346.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PL092346.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092346.D | 1 | | 10/11/24 | PL101224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 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 |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 21.1 | | 43 - 140 | 105% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.4 | | 77 - 126 | 107% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/11/24 |
| Project: | Perth Amboy | Date Received: | 10/11/24 |
| Client Sample ID: | PIBLK-PL092346.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PL092346.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092346.D | 1 | | 10/11/24 | PL101224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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
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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: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | PB164067BS | SDG No.: | P4258 |
| Lab Sample ID: | PB164067BS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092332.D | 1 | 10/11/24 09:00 | 10/11/24 13:37 | PB164067 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 16.8 | | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 16.8 | | 0.49 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 16.4 | | 0.47 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 16.2 | | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 16.7 | | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 16.2 | | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 17.3 | | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 17.2 | | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 17.3 | | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 17.6 | | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 16.3 | | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 17.5 | | 0.30 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 18.9 | | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 17.1 | | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 16.2 | | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 16.3 | | 0.38 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 17.4 | | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 16.6 | | 0.39 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 17.2 | | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 17.4 | | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.20 | U | 5.20 | 33.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.0 | | 10 - 148 | 110% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.7 | | 10 - 159 | 103% | SPK: 20 |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | PB164067BS | | SDG No.: | P4258 | |
| Lab Sample ID: | PB164067BS | | Matrix: | SOIL | |
| Analytical Method: | SW8081 | | % Solid: | 100 | Decanted: |
| Sample Wt/Vol: | 30.01 | Units: g | Final Vol: | 10000 | uL |
| Soil Aliquot Vol: | | uL | Test: | Pesticide-TCL | |
| Extraction Type: | | | Injection Volume : | | |
| GPC Factor : | 1.0 | PH : | | | |
| Prep Method : | SW3541B | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092332.D | 1 | 10/11/24 09:00 | 10/11/24 13:37 | PB164067 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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
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N = Presumptive Evidence of a Compound
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-2MS | SDG No.: | P4258 |
| Lab Sample ID: | P4385-04MS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 95 Decanted: |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092336.D | 1 | 10/11/24 09:00 | 10/11/24 14:31 | PB164067 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 15.6 | | 0.19 | 1.80 | ug/kg |
| 319-85-7 | beta-BHC | 16.0 | | 0.51 | 1.80 | ug/kg |
| 319-86-8 | delta-BHC | 14.7 | | 0.49 | 1.80 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 15.2 | | 0.20 | 1.80 | ug/kg |
| 76-44-8 | Heptachlor | 16.0 | | 0.18 | 1.80 | ug/kg |
| 309-00-2 | Aldrin | 15.3 | | 0.15 | 1.80 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 15.5 | | 0.24 | 1.80 | ug/kg |
| 959-98-8 | Endosulfan I | 15.6 | | 0.18 | 1.80 | ug/kg |
| 60-57-1 | Dieldrin | 16.7 | | 0.16 | 1.80 | ug/kg |
| 72-55-9 | 4,4-DDE | 43.0 | E | 0.14 | 1.80 | ug/kg |
| 72-20-8 | Endrin | 16.9 | | 0.17 | 1.80 | ug/kg |
| 33213-65-9 | Endosulfan II | 16.0 | | 0.32 | 1.80 | ug/kg |
| 72-54-8 | 4,4-DDD | 19.2 | | 0.20 | 1.80 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 16.1 | | 0.14 | 1.80 | ug/kg |
| 50-29-3 | 4,4-DDT | 39.9 | E | 0.18 | 1.80 | ug/kg |
| 72-43-5 | Methoxychlor | 16.3 | | 0.40 | 1.80 | ug/kg |
| 53494-70-5 | Endrin ketone | 21.2 | P | 0.23 | 1.80 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 16.3 | | 0.41 | 1.80 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 15.9 | | 0.18 | 1.80 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 16.4 | | 0.20 | 1.80 | ug/kg |
| 8001-35-2 | Toxaphene | 5.50 | U | 5.50 | 34.6 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 16.9 | | 10 - 148 | 85% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 16.4 | | 10 - 159 | 82% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-2MS | SDG No.: | P4258 |
| Lab Sample ID: | P4385-04MS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 95 Decanted: |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092336.D | 1 | 10/11/24 09:00 | 10/11/24 14:31 | PB164067 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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
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N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-2MSD | SDG No.: | P4258 |
| Lab Sample ID: | P4385-04MSD | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 95 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092337.D | 1 | 10/11/24 09:00 | 10/11/24 14:44 | PB164067 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 15.5 | | 0.19 | 1.80 | ug/kg |
| 319-85-7 | beta-BHC | 15.8 | | 0.51 | 1.80 | ug/kg |
| 319-86-8 | delta-BHC | 14.6 | | 0.49 | 1.80 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 15.1 | | 0.20 | 1.80 | ug/kg |
| 76-44-8 | Heptachlor | 15.9 | | 0.18 | 1.80 | ug/kg |
| 309-00-2 | Aldrin | 15.2 | | 0.15 | 1.80 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 15.5 | | 0.24 | 1.80 | ug/kg |
| 959-98-8 | Endosulfan I | 15.5 | | 0.18 | 1.80 | ug/kg |
| 60-57-1 | Dieldrin | 16.6 | | 0.16 | 1.80 | ug/kg |
| 72-55-9 | 4,4-DDE | 43.3 | E | 0.14 | 1.80 | ug/kg |
| 72-20-8 | Endrin | 16.8 | | 0.17 | 1.80 | ug/kg |
| 33213-65-9 | Endosulfan II | 16.0 | | 0.32 | 1.80 | ug/kg |
| 72-54-8 | 4,4-DDD | 18.9 | | 0.20 | 1.80 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 16.1 | | 0.14 | 1.80 | ug/kg |
| 50-29-3 | 4,4-DDT | 39.7 | E | 0.18 | 1.80 | ug/kg |
| 72-43-5 | Methoxychlor | 16.2 | | 0.40 | 1.80 | ug/kg |
| 53494-70-5 | Endrin ketone | 22.6 | P | 0.23 | 1.80 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 16.2 | | 0.41 | 1.80 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 15.9 | | 0.18 | 1.80 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 16.2 | | 0.20 | 1.80 | ug/kg |
| 8001-35-2 | Toxaphene | 5.50 | U | 5.50 | 34.7 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 16.8 | | 10 - 148 | 84% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 16.6 | | 10 - 159 | 83% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-2MSD | SDG No.: | P4258 |
| Lab Sample ID: | P4385-04MSD | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 95 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092337.D | 1 | 10/11/24 09:00 | 10/11/24 14:44 | PB164067 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L **Calibration Date(s):** 09/23/2024 09/23/2024

**Calibration Times:** 11:32 12:26

GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** RT 100 = PL091956.D RT 075 = PL091957.D

RT 050 = PL091958.D RT 025 = PL091959.D RT 005 = PL091960.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.71 | 6.71 | 6.71 | 6.71 | 6.71 | 6.71 | 6.61 | 6.81 |
| 4,4'-DDE | 6.20 | 6.20 | 6.20 | 6.20 | 6.20 | 6.20 | 6.10 | 6.30 |
| 4,4'-DDT | 7.03 | 7.03 | 7.03 | 7.03 | 7.03 | 7.03 | 6.93 | 7.13 |
| Aldrin | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.16 | 5.36 |
| alpha-BHC | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 3.90 | 4.10 |
| alpha-Chlordane | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 5.92 | 6.12 |
| beta-BHC | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.43 | 4.63 |
| Decachlorobiphenyl | 9.06 | 9.06 | 9.06 | 9.06 | 9.06 | 9.06 | 8.96 | 9.16 |
| delta-BHC | 4.78 | 4.78 | 4.78 | 4.78 | 4.77 | 4.78 | 4.68 | 4.88 |
| Dieldrin | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.25 | 6.45 |
| Endosulfan I | 6.07 | 6.07 | 6.08 | 6.07 | 6.07 | 6.07 | 5.97 | 6.17 |
| Endosulfan II | 6.80 | 6.80 | 6.80 | 6.80 | 6.80 | 6.80 | 6.70 | 6.90 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.06 | 7.26 |
| Endrin | 6.58 | 6.58 | 6.58 | 6.58 | 6.58 | 6.58 | 6.48 | 6.68 |
| Endrin aldehyde | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.83 | 7.03 |
| Endrin ketone | 7.65 | 7.65 | 7.65 | 7.65 | 7.65 | 7.65 | 7.55 | 7.75 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.23 | 4.43 |
| gamma-Chlordane | 5.95 | 5.95 | 5.95 | 5.95 | 5.94 | 5.94 | 5.84 | 6.04 |
| Heptachlor | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.82 | 5.02 |
| Heptachlor epoxide | 5.69 | 5.69 | 5.69 | 5.69 | 5.69 | 5.69 | 5.59 | 5.79 |
| 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:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L **Calibration Date(s):** 09/23/2024 09/23/2024

**Calibration Times:** 11:32 12:26

GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 100 = PL091956.D RT 075 = PL091957.D

RT 050 = PL091958.D RT 025 = PL091959.D RT 005 = PL091960.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.80 | 5.80 | 5.80 | 5.80 | 5.80 | 5.80 | 5.70 | 5.90 |
| 4,4'-DDE | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.14 | 5.34 |
| 4,4'-DDT | 6.05 | 6.05 | 6.05 | 6.05 | 6.05 | 6.05 | 5.95 | 6.15 |
| Aldrin | 4.24 | 4.24 | 4.24 | 4.24 | 4.24 | 4.24 | 4.14 | 4.34 |
| alpha-BHC | 3.29 | 3.29 | 3.29 | 3.29 | 3.29 | 3.29 | 3.19 | 3.39 |
| alpha-Chlordane | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 4.95 | 5.15 |
| beta-BHC | 3.92 | 3.92 | 3.92 | 3.92 | 3.92 | 3.91 | 3.81 | 4.01 |
| Decachlorobiphenyl | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.82 | 8.02 |
| delta-BHC | 4.15 | 4.15 | 4.15 | 4.15 | 4.14 | 4.14 | 4.04 | 4.24 |
| Dieldrin | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.27 | 5.47 |
| Endosulfan I | 5.11 | 5.11 | 5.11 | 5.11 | 5.11 | 5.11 | 5.01 | 5.21 |
| Endosulfan II | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.84 | 6.04 |
| Endosulfan sulfate | 6.35 | 6.35 | 6.34 | 6.34 | 6.35 | 6.34 | 6.24 | 6.44 |
| Endrin | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.55 | 5.75 |
| Endrin aldehyde | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.02 | 6.22 |
| Endrin ketone | 6.85 | 6.85 | 6.85 | 6.85 | 6.85 | 6.85 | 6.75 | 6.95 |
| gamma-BHC (Lindane) | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.52 | 3.72 |
| gamma-Chlordane | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.89 | 5.09 |
| Heptachlor | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.95 | 3.85 | 4.05 |
| Heptachlor epoxide | 4.74 | 4.74 | 4.74 | 4.74 | 4.74 | 4.74 | 4.64 | 4.84 |
| 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:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L

**Calibration Date(s):** 09/23/2024 09/23/2024

**Calibration Times:** 11:32 12:26

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 100 =** PL091956.D **CF 075 =** PL091957.D

**CF 050 =** PL091958.D **CF 025 =** PL091959.D **CF 005 =** PL091960.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 1653520000 | 1647210000 | 1678500000 | 1744800000 | 2254540000 | 1795720000 | 14 |
| 4,4'-DDE | 2066570000 | 2045910000 | 2071830000 | 2104470000 | 2533330000 | 2164420000 | 10 |
| 4,4'-DDT | 1733900000 | 1735380000 | 1754170000 | 1804510000 | 2178050000 | 1841200000 | 10 |
| Aldrin | 2641050000 | 2607180000 | 2641830000 | 2690200000 | 3307680000 | 2777590000 | 11 |
| alpha-BHC | 3076620000 | 3010330000 | 2985720000 | 2963000000 | 3446930000 | 3096520000 | 6 |
| alpha-Chlordane | 2305920000 | 2301860000 | 2353960000 | 2423920000 | 2931020000 | 2463340000 | 11 |
| beta-BHC | 1233660000 | 1235340000 | 1269540000 | 1303030000 | 1590300000 | 1326380000 | 11 |
| Decachlorobiphenyl | 1514180000 | 1546290000 | 1590790000 | 1642930000 | 1896960000 | 1638230000 | 9 |
| delta-BHC | 2841210000 | 2757590000 | 2778760000 | 2797400000 | 3246070000 | 2884210000 | 7 |
| Dieldrin | 2300240000 | 2292130000 | 2329590000 | 2380410000 | 2891930000 | 2438860000 | 10 |
| Endosulfan I | 2149020000 | 2152500000 | 2207300000 | 2283480000 | 2774700000 | 2313400000 | 11 |
| Endosulfan II | 1992660000 | 2006240000 | 2063200000 | 2160930000 | 2775610000 | 2199730000 | 15 |
| Endosulfan sulfate | 1820440000 | 1836620000 | 1889410000 | 1967750000 | 2397160000 | 1982280000 | 12 |
| Endrin | 1940880000 | 1934170000 | 1971650000 | 2016300000 | 2440480000 | 2060700000 | 10 |
| Endrin aldehyde | 1583540000 | 1604430000 | 1647320000 | 1720460000 | 2158080000 | 1742760000 | 14 |
| Endrin ketone | 2055570000 | 2058040000 | 2104700000 | 2152580000 | 2616930000 | 2197560000 | 11 |
| gamma-BHC (Lindane) | 2990410000 | 2948600000 | 2949110000 | 2954630000 | 3651280000 | 3098800000 | 10 |
| gamma-Chlordane | 2323480000 | 2305690000 | 2357460000 | 2423400000 | 2945970000 | 2471200000 | 11 |
| Heptachlor | 2590450000 | 2581810000 | 2624270000 | 2731930000 | 3298830000 | 2765460000 | 11 |
| Heptachlor epoxide | 2355250000 | 2419410000 | 2410600000 | 2493740000 | 3045980000 | 2544990000 | 11 |
| Methoxychlor | 913738000 | 926950000 | 954169000 | 973623000 | 1140080000 | 981712000 | 9 |
| Tetrachloro-m-xylene | 2128490000 | 2125270000 | 2145440000 | 2197480000 | 2526630000 | 2224660000 | 8 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L

**Calibration Date(s):** 09/23/2024 09/23/2024

**Calibration Times:** 11:32 12:26

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 100 =** PL091956.D **CF 075 =** PL091957.D

**CF 050 =** PL091958.D **CF 025 =** PL091959.D **CF 005 =** PL091960.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 2268160000 | 2177660000 | 2139850000 | 1992930000 | 2102490000 | 2136220000 | 5 |
| 4,4'-DDE | 2937140000 | 2821610000 | 2796600000 | 2614820000 | 2724050000 | 2778840000 | 4 |
| 4,4'-DDT | 2455710000 | 2371160000 | 2329540000 | 2184000000 | 2225420000 | 2313160000 | 5 |
| Aldrin | 3593290000 | 3455480000 | 3419630000 | 3175270000 | 3361830000 | 3401100000 | 4 |
| alpha-BHC | 3937530000 | 3786440000 | 3690070000 | 3414870000 | 3387720000 | 3643320000 | 7 |
| alpha-Chlordane | 3085390000 | 2983970000 | 2990310000 | 2841400000 | 3066630000 | 2993540000 | 3 |
| beta-BHC | 1482940000 | 1448440000 | 1465850000 | 1419920000 | 1698340000 | 1503100000 | 7 |
| Decachlorobiphenyl | 2374340000 | 2399600000 | 2428470000 | 2478660000 | 2828640000 | 2501940000 | 7 |
| delta-BHC | 3726380000 | 3579670000 | 3509320000 | 3229840000 | 3313260000 | 3471690000 | 6 |
| Dieldrin | 3085830000 | 2978040000 | 2947180000 | 2759020000 | 2889140000 | 2931840000 | 4 |
| Endosulfan I | 2816250000 | 2735830000 | 2741360000 | 2613670000 | 2816080000 | 2744640000 | 3 |
| Endosulfan II | 2561230000 | 2497720000 | 2506550000 | 2398770000 | 2547770000 | 2502410000 | 3 |
| Endosulfan sulfate | 2442810000 | 2382500000 | 2402520000 | 2314600000 | 2520170000 | 2412520000 | 3 |
| Endrin | 2724440000 | 2642180000 | 2624570000 | 2477520000 | 2642190000 | 2622180000 | 3 |
| Endrin aldehyde | 2035320000 | 2004480000 | 2019970000 | 1971180000 | 2172650000 | 2040720000 | 4 |
| Endrin ketone | 2811580000 | 2766230000 | 2778840000 | 2679690000 | 2808370000 | 2768950000 | 2 |
| gamma-BHC (Lindane) | 3775710000 | 3629090000 | 3577820000 | 3312530000 | 3359720000 | 3530980000 | 5 |
| gamma-Chlordane | 3135810000 | 3020590000 | 3008060000 | 2840920000 | 3037500000 | 3008580000 | 4 |
| Heptachlor | 3553790000 | 3434350000 | 3431490000 | 3238430000 | 3595010000 | 3450610000 | 4 |
| Heptachlor epoxide | 3090900000 | 2996730000 | 3012410000 | 2873000000 | 3141390000 | 3022890000 | 3 |
| Methoxychlor | 1228030000 | 1222750000 | 1234080000 | 1223180000 | 1343690000 | 1250350000 | 4 |
| Tetrachloro-m-xylene | 2544530000 | 2497760000 | 2476670000 | 2384990000 | 2636430000 | 2508080000 | 4 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L **Date(s) Analyzed:** 09/23/2024 09/23/2024

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Toxaphene | 500 | 1 | 6.24 | 6.14 | 6.34 | 22665300 |
| | | 2 | 6.45 | 6.35 | 6.55 | 13922000 |
| | | 3 | 7.06 | 6.96 | 7.16 | 70960500 |
| | | 4 | 7.15 | 7.05 | 7.25 | 53851200 |
| | | 5 | 7.94 | 7.84 | 8.04 | 39727000 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L **Date(s) Analyzed:** 09/23/2024 09/23/2024

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Toxaphene | 500 | 1 | 5.01 | 4.91 | 5.11 | 18093600 |
| | | 2 | 5.34 | 5.24 | 5.44 | 17271700 |
| | | 3 | 6.61 | 6.51 | 6.71 | 63995900 |
| | | 4 | 6.74 | 6.64 | 6.84 | 88666300 |
| | | 5 | 7.05 | 6.95 | 7.15 | 60349700 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/11/2024 **Initial Calibration Date(s):** 09/23/2024 09/23/2024

**Continuing Calib Time:** 11:54 **Initial Calibration Time(s):** 11:32 12:26

**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 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.77 | 4.78 | 4.68 | 4.88 | 0.01 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.68 | 5.69 | 5.59 | 5.79 | 0.01 |
| Endosulfan I | 6.07 | 6.08 | 5.98 | 6.18 | 0.01 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.00 |
| 4,4'-DDE | 6.19 | 6.20 | 6.10 | 6.30 | 0.01 |
| Endrin | 6.58 | 6.58 | 6.48 | 6.68 | 0.00 |
| Endosulfan II | 6.80 | 6.80 | 6.70 | 6.90 | 0.00 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.03 | 7.03 | 6.93 | 7.13 | 0.00 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Endrin ketone | 7.65 | 7.65 | 7.55 | 7.75 | 0.00 |
| Endrin aldehyde | 6.93 | 6.93 | 6.83 | 7.03 | 0.00 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.95 | 5.85 | 6.05 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/11/2024 **Initial Calibration Date(s):** 09/23/2024 09/23/2024

**Continuing Calib Time:** 11:54 **Initial Calibration Time(s):** 11:32 12:26

**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 |
| alpha-BHC | 3.28 | 3.29 | 3.19 | 3.39 | 0.01 |
| beta-BHC | 3.91 | 3.92 | 3.82 | 4.02 | 0.01 |
| delta-BHC | 4.14 | 4.15 | 4.05 | 4.25 | 0.01 |
| gamma-BHC (Lindane) | 3.61 | 3.62 | 3.52 | 3.72 | 0.01 |
| Heptachlor | 3.95 | 3.96 | 3.86 | 4.06 | 0.01 |
| Aldrin | 4.23 | 4.24 | 4.14 | 4.34 | 0.01 |
| Heptachlor epoxide | 4.73 | 4.74 | 4.64 | 4.84 | 0.01 |
| Endosulfan I | 5.10 | 5.11 | 5.01 | 5.21 | 0.01 |
| Dieldrin | 5.37 | 5.37 | 5.27 | 5.47 | 0.00 |
| 4,4'-DDE | 5.23 | 5.24 | 5.14 | 5.34 | 0.01 |
| Endrin | 5.64 | 5.65 | 5.55 | 5.75 | 0.01 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |
| 4,4'-DDD | 5.79 | 5.80 | 5.70 | 5.90 | 0.01 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.05 | 5.95 | 6.15 | 0.01 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |
| Endrin ketone | 6.84 | 6.85 | 6.75 | 6.95 | 0.01 |
| Endrin aldehyde | 6.12 | 6.12 | 6.02 | 6.22 | 0.00 |
| alpha-Chlordane | 5.05 | 5.05 | 4.95 | 5.15 | 0.00 |
| gamma-Chlordane | 4.98 | 4.99 | 4.89 | 5.09 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092330.D **Time Analyzed:** 11:54

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.710 | 6.614 | 6.814 | 53.460 | 50.000 | 6.9 |
| 4,4'-DDE | 6.194 | 6.097 | 6.297 | 52.750 | 50.000 | 5.5 |
| 4,4'-DDT | 7.026 | 6.928 | 7.128 | 52.610 | 50.000 | 5.2 |
| Aldrin | 5.259 | 5.163 | 5.363 | 51.260 | 50.000 | 2.5 |
| alpha-BHC | 3.996 | 3.899 | 4.099 | 52.740 | 50.000 | 5.5 |
| alpha-Chlordane | 6.019 | 5.924 | 6.124 | 51.550 | 50.000 | 3.1 |
| beta-BHC | 4.525 | 4.429 | 4.629 | 51.990 | 50.000 | 4.0 |
| Decachlorobiphenyl | 9.059 | 8.960 | 9.160 | 55.090 | 50.000 | 10.2 |
| delta-BHC | 4.773 | 4.677 | 4.877 | 52.840 | 50.000 | 5.7 |
| Dieldrin | 6.346 | 6.249 | 6.449 | 51.740 | 50.000 | 3.5 |
| Endosulfan I | 6.071 | 5.975 | 6.175 | 54.100 | 50.000 | 8.2 |
| Endosulfan II | 6.796 | 6.698 | 6.898 | 50.260 | 50.000 | 0.5 |
| Endosulfan sulfate | 7.161 | 7.063 | 7.263 | 51.970 | 50.000 | 3.9 |
| Endrin | 6.576 | 6.479 | 6.679 | 51.260 | 50.000 | 2.5 |
| Endrin aldehyde | 6.926 | 6.828 | 7.028 | 51.670 | 50.000 | 3.3 |
| Endrin ketone | 7.646 | 7.548 | 7.748 | 52.510 | 50.000 | 5.0 |
| gamma-BHC (Lindane) | 4.328 | 4.232 | 4.432 | 51.140 | 50.000 | 2.3 |
| gamma-Chlordane | 5.940 | 5.845 | 6.045 | 51.870 | 50.000 | 3.7 |
| Heptachlor | 4.917 | 4.820 | 5.020 | 52.270 | 50.000 | 4.5 |
| Heptachlor epoxide | 5.684 | 5.589 | 5.789 | 53.130 | 50.000 | 6.3 |
| Methoxychlor | 7.502 | 7.404 | 7.604 | 54.430 | 50.000 | 8.9 |
| Tetrachloro-m-xylene | 3.540 | 3.444 | 3.644 | 52.510 | 50.000 | 5.0 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092330.D **Time Analyzed:** 11:54

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.791 | 5.696 | 5.896 | 58.370 | 50.000 | 16.7 |
| 4,4'-DDE | 5.234 | 5.141 | 5.341 | 56.900 | 50.000 | 13.8 |
| 4,4'-DDT | 6.041 | 5.946 | 6.146 | 54.730 | 50.000 | 9.5 |
| Aldrin | 4.229 | 4.135 | 4.335 | 54.360 | 50.000 | 8.7 |
| alpha-BHC | 3.281 | 3.186 | 3.386 | 54.900 | 50.000 | 9.8 |
| alpha-Chlordane | 5.046 | 4.952 | 5.152 | 54.300 | 50.000 | 8.6 |
| beta-BHC | 3.910 | 3.815 | 4.015 | 53.590 | 50.000 | 7.2 |
| Decachlorobiphenyl | 7.919 | 7.823 | 8.023 | 53.150 | 50.000 | 6.3 |
| delta-BHC | 4.138 | 4.045 | 4.245 | 55.480 | 50.000 | 11.0 |
| Dieldrin | 5.367 | 5.272 | 5.472 | 55.180 | 50.000 | 10.4 |
| Endosulfan I | 5.102 | 5.008 | 5.208 | 48.570 | 50.000 | -2.9 |
| Endosulfan II | 5.938 | 5.842 | 6.042 | 55.090 | 50.000 | 10.2 |
| Endosulfan sulfate | 6.340 | 6.244 | 6.444 | 54.710 | 50.000 | 9.4 |
| Endrin | 5.642 | 5.548 | 5.748 | 54.170 | 50.000 | 8.3 |
| Endrin aldehyde | 6.117 | 6.022 | 6.222 | 54.520 | 50.000 | 9.0 |
| Endrin ketone | 6.844 | 6.750 | 6.950 | 56.540 | 50.000 | 13.1 |
| gamma-BHC (Lindane) | 3.611 | 3.516 | 3.716 | 54.380 | 50.000 | 8.8 |
| gamma-Chlordane | 4.982 | 4.888 | 5.088 | 54.910 | 50.000 | 9.8 |
| Heptachlor | 3.950 | 3.855 | 4.055 | 53.910 | 50.000 | 7.8 |
| Heptachlor epoxide | 4.732 | 4.638 | 4.838 | 53.980 | 50.000 | 8.0 |
| Methoxychlor | 6.616 | 6.521 | 6.721 | 54.680 | 50.000 | 9.4 |
| Tetrachloro-m-xylene | 2.778 | 2.682 | 2.882 | 53.400 | 50.000 | 6.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/11/2024 **Initial Calibration Date(s):** 09/23/2024 09/23/2024

**Continuing Calib Time:** 17:48 **Initial Calibration Time(s):** 11:32 12:26

**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 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.78 | 4.78 | 4.68 | 4.88 | 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 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.69 | 5.59 | 5.79 | 0.00 |
| Endosulfan I | 6.08 | 6.08 | 5.98 | 6.18 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.00 |
| 4,4'-DDE | 6.20 | 6.20 | 6.10 | 6.30 | 0.00 |
| Endrin | 6.58 | 6.58 | 6.48 | 6.68 | 0.00 |
| Endosulfan II | 6.80 | 6.80 | 6.70 | 6.90 | 0.00 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.03 | 7.03 | 6.93 | 7.13 | 0.00 |
| Methoxychlor | 7.51 | 7.50 | 7.40 | 7.60 | -0.01 |
| Endrin ketone | 7.65 | 7.65 | 7.55 | 7.75 | 0.00 |
| Endrin aldehyde | 6.93 | 6.93 | 6.83 | 7.03 | 0.00 |
| alpha-Chlordane | 6.03 | 6.02 | 5.92 | 6.12 | -0.01 |
| gamma-Chlordane | 5.95 | 5.95 | 5.85 | 6.05 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/11/2024 **Initial Calibration Date(s):** 09/23/2024 09/23/2024

**Continuing Calib Time:** 17:48 **Initial Calibration Time(s):** 11:32 12:26

**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 |
| alpha-BHC | 3.28 | 3.29 | 3.19 | 3.39 | 0.01 |
| beta-BHC | 3.91 | 3.92 | 3.82 | 4.02 | 0.01 |
| delta-BHC | 4.14 | 4.15 | 4.05 | 4.25 | 0.01 |
| gamma-BHC (Lindane) | 3.61 | 3.62 | 3.52 | 3.72 | 0.01 |
| Heptachlor | 3.95 | 3.96 | 3.86 | 4.06 | 0.01 |
| Aldrin | 4.23 | 4.24 | 4.14 | 4.34 | 0.01 |
| Heptachlor epoxide | 4.74 | 4.74 | 4.64 | 4.84 | 0.00 |
| Endosulfan I | 5.10 | 5.11 | 5.01 | 5.21 | 0.01 |
| Dieldrin | 5.37 | 5.37 | 5.27 | 5.47 | 0.00 |
| 4,4'-DDE | 5.24 | 5.24 | 5.14 | 5.34 | 0.00 |
| Endrin | 5.65 | 5.65 | 5.55 | 5.75 | 0.01 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |
| 4,4'-DDD | 5.79 | 5.80 | 5.70 | 5.90 | 0.01 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.05 | 5.95 | 6.15 | 0.01 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |
| Endrin ketone | 6.85 | 6.85 | 6.75 | 6.95 | 0.00 |
| Endrin aldehyde | 6.12 | 6.12 | 6.02 | 6.22 | 0.00 |
| alpha-Chlordane | 5.05 | 5.05 | 4.95 | 5.15 | 0.00 |
| gamma-Chlordane | 4.98 | 4.99 | 4.89 | 5.09 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092347.D **Time Analyzed:** 17:48

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.714 | 6.614 | 6.814 | 50.090 | 50.000 | 0.2 |
| 4,4'-DDE | 6.198 | 6.097 | 6.297 | 49.040 | 50.000 | -1.9 |
| 4,4'-DDT | 7.029 | 6.928 | 7.128 | 46.250 | 50.000 | -7.5 |
| Aldrin | 5.263 | 5.163 | 5.363 | 48.640 | 50.000 | -2.7 |
| alpha-BHC | 4.000 | 3.899 | 4.099 | 50.680 | 50.000 | 1.4 |
| alpha-Chlordane | 6.025 | 5.924 | 6.124 | 48.780 | 50.000 | -2.4 |
| beta-BHC | 4.530 | 4.429 | 4.629 | 49.240 | 50.000 | -1.5 |
| Decachlorobiphenyl | 9.062 | 8.960 | 9.160 | 48.480 | 50.000 | -3.0 |
| delta-BHC | 4.777 | 4.677 | 4.877 | 50.290 | 50.000 | 0.6 |
| Dieldrin | 6.351 | 6.249 | 6.449 | 47.990 | 50.000 | -4.0 |
| Endosulfan I | 6.076 | 5.975 | 6.175 | 48.510 | 50.000 | -3.0 |
| Endosulfan II | 6.800 | 6.698 | 6.898 | 45.520 | 50.000 | -9.0 |
| Endosulfan sulfate | 7.164 | 7.063 | 7.263 | 47.180 | 50.000 | -5.6 |
| Endrin | 6.579 | 6.479 | 6.679 | 46.970 | 50.000 | -6.1 |
| Endrin aldehyde | 6.931 | 6.828 | 7.028 | 46.650 | 50.000 | -6.7 |
| Endrin ketone | 7.649 | 7.548 | 7.748 | 47.620 | 50.000 | -4.8 |
| gamma-BHC (Lindane) | 4.332 | 4.232 | 4.432 | 48.830 | 50.000 | -2.3 |
| gamma-Chlordane | 5.945 | 5.845 | 6.045 | 47.960 | 50.000 | -4.1 |
| Heptachlor | 4.922 | 4.820 | 5.020 | 49.860 | 50.000 | -0.3 |
| Heptachlor epoxide | 5.690 | 5.589 | 5.789 | 49.360 | 50.000 | -1.3 |
| Methoxychlor | 7.505 | 7.404 | 7.604 | 48.210 | 50.000 | -3.6 |
| Tetrachloro-m-xylene | 3.544 | 3.444 | 3.644 | 50.410 | 50.000 | 0.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092347.D **Time Analyzed:** 17:48

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.793 | 5.696 | 5.896 | 56.110 | 50.000 | 12.2 |
| 4,4'-DDE | 5.236 | 5.141 | 5.341 | 52.770 | 50.000 | 5.5 |
| 4,4'-DDT | 6.044 | 5.946 | 6.146 | 47.860 | 50.000 | -4.3 |
| Aldrin | 4.230 | 4.135 | 4.335 | 51.730 | 50.000 | 3.5 |
| alpha-BHC | 3.282 | 3.186 | 3.386 | 52.640 | 50.000 | 5.3 |
| alpha-Chlordane | 5.048 | 4.952 | 5.152 | 50.970 | 50.000 | 1.9 |
| beta-BHC | 3.911 | 3.815 | 4.015 | 50.680 | 50.000 | 1.4 |
| Decachlorobiphenyl | 7.921 | 7.823 | 8.023 | 45.400 | 50.000 | -9.2 |
| delta-BHC | 4.141 | 4.045 | 4.245 | 53.940 | 50.000 | 7.9 |
| Dieldrin | 5.369 | 5.272 | 5.472 | 50.980 | 50.000 | 2.0 |
| Endosulfan I | 5.104 | 5.008 | 5.208 | 50.400 | 50.000 | 0.8 |
| Endosulfan II | 5.940 | 5.842 | 6.042 | 50.720 | 50.000 | 1.4 |
| Endosulfan sulfate | 6.342 | 6.244 | 6.444 | 49.690 | 50.000 | -0.6 |
| Endrin | 5.645 | 5.548 | 5.748 | 50.020 | 50.000 | 0.0 |
| Endrin aldehyde | 6.119 | 6.022 | 6.222 | 49.550 | 50.000 | -0.9 |
| Endrin ketone | 6.848 | 6.750 | 6.950 | 49.250 | 50.000 | -1.5 |
| gamma-BHC (Lindane) | 3.612 | 3.516 | 3.716 | 51.940 | 50.000 | 3.9 |
| gamma-Chlordane | 4.984 | 4.888 | 5.088 | 51.480 | 50.000 | 3.0 |
| Heptachlor | 3.951 | 3.855 | 4.055 | 50.810 | 50.000 | 1.6 |
| Heptachlor epoxide | 4.735 | 4.638 | 4.838 | 51.060 | 50.000 | 2.1 |
| Methoxychlor | 6.618 | 6.521 | 6.721 | 47.490 | 50.000 | -5.0 |
| Tetrachloro-m-xylene | 2.779 | 2.682 | 2.882 | 52.200 | 50.000 | 4.4 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No. (PEM):** PEM - PL091954.D **Date Analyzed:** 09/23/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:05

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.061 | 8.960 | 9.160 | 19.830 | 20.000 | -0.9 |
| Tetrachloro-m-xylene | 3.544 | 3.490 | 3.590 | 20.070 | 20.000 | 0.4 |
| alpha-BHC | 3.999 | 3.950 | 4.050 | 10.180 | 10.000 | 1.8 |
| beta-BHC | 4.529 | 4.480 | 4.580 | 10.750 | 10.000 | 7.5 |
| gamma-BHC (Lindane) | 4.332 | 4.280 | 4.380 | 10.100 | 10.000 | 1.0 |
| Endrin | 6.579 | 6.510 | 6.650 | 43.290 | 50.000 | -13.4 |
| 4,4'-DDT | 7.028 | 6.960 | 7.100 | 90.240 | 100.000 | -9.8 |
| Methoxychlor | 7.504 | 7.430 | 7.570 | 212.390 | 250.000 | -15.0 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No. (PEM):** PEM - PL091954.D **Date Analyzed:** 09/23/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:05

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.923 | 7.820 | 8.020 | 19.350 | 20.000 | -3.3 |
| Tetrachloro-m-xylene | 2.782 | 2.730 | 2.830 | 19.290 | 20.000 | -3.6 |
| alpha-BHC | 3.285 | 3.230 | 3.340 | 9.220 | 10.000 | -7.8 |
| beta-BHC | 3.915 | 3.860 | 3.970 | 10.540 | 10.000 | 5.4 |
| gamma-BHC (Lindane) | 3.616 | 3.570 | 3.670 | 8.880 | 10.000 | -11.2 |
| Endrin | 5.648 | 5.580 | 5.720 | 46.450 | 50.000 | -7.1 |
| 4,4'-DDT | 6.047 | 5.980 | 6.120 | 104.950 | 100.000 | 5.0 |
| Methoxychlor | 6.621 | 6.550 | 6.690 | 232.550 | 250.000 | -7.0 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No. (PEM):** PEM - PL092320.D **Date Analyzed:** 10/11/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 08:56

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.059 | 8.960 | 9.160 | 22.700 | 20.000 | 13.5 |
| Tetrachloro-m-xylene | 3.540 | 3.490 | 3.590 | 22.460 | 20.000 | 12.3 |
| alpha-BHC | 3.995 | 3.940 | 4.050 | 11.450 | 10.000 | 14.5 |
| beta-BHC | 4.525 | 4.470 | 4.580 | 11.980 | 10.000 | 19.8 |
| gamma-BHC (Lindane) | 4.328 | 4.280 | 4.380 | 10.840 | 10.000 | 8.4 |
| Endrin | 6.575 | 6.500 | 6.650 | 45.920 | 50.000 | -8.2 |
| 4,4'-DDT | 7.025 | 6.950 | 7.100 | 96.120 | 100.000 | -3.9 |
| Methoxychlor | 7.503 | 7.430 | 7.570 | 231.460 | 250.000 | -7.4 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No. (PEM):** PEM - PL092320.D **Date Analyzed:** 10/11/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 08:56

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.919 | 7.820 | 8.020 | 20.990 | 20.000 | 5.0 |
| Tetrachloro-m-xylene | 2.778 | 2.730 | 2.830 | 21.410 | 20.000 | 7.1 |
| alpha-BHC | 3.281 | 3.230 | 3.330 | 10.130 | 10.000 | 1.3 |
| beta-BHC | 3.911 | 3.860 | 3.960 | 11.680 | 10.000 | 16.8 |
| gamma-BHC (Lindane) | 3.611 | 3.560 | 3.660 | 9.770 | 10.000 | -2.3 |
| Endrin | 5.643 | 5.570 | 5.710 | 48.200 | 50.000 | -3.6 |
| 4,4'-DDT | 6.042 | 5.970 | 6.110 | 108.430 | 100.000 | 8.4 |
| Methoxychlor | 6.617 | 6.550 | 6.690 | 243.010 | 250.000 | -2.8 |

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# Analytical Sequence

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **Instrument ID:** ECD_L

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 09/23/2024 09/23/2024

**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 | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 09/23/2024 | 10:52 | PL091953.D | 9.06 | 3.54 |
| PEM | PEM | 09/23/2024 | 11:05 | PL091954.D | 9.06 | 3.54 |
| RESCHK | RESCHK | 09/23/2024 | 11:19 | PL091955.D | 9.06 | 3.54 |
| PSTDICC100 | PSTDICC100 | 09/23/2024 | 11:32 | PL091956.D | 9.06 | 3.54 |
| PSTDICC075 | PSTDICC075 | 09/23/2024 | 11:45 | PL091957.D | 9.06 | 3.54 |
| PSTDICC050 | PSTDICC050 | 09/23/2024 | 11:59 | PL091958.D | 9.06 | 3.54 |
| PSTDICC025 | PSTDICC025 | 09/23/2024 | 12:12 | PL091959.D | 9.06 | 3.54 |
| PSTDICC005 | PSTDICC005 | 09/23/2024 | 12:26 | PL091960.D | 9.06 | 3.54 |
| PCHLORICC500 | PCHLORICC500 | 09/23/2024 | 13:06 | PL091963.D | 9.06 | 3.54 |
| PTOXICC500 | PTOXICC500 | 09/23/2024 | 14:13 | PL091968.D | 9.06 | 3.54 |
| PEM | PEM | 10/11/2024 | 08:56 | PL092320.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 10/11/2024 | 11:40 | PL092329.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 10/11/2024 | 11:54 | PL092330.D | 9.06 | 3.54 |
| PB164067BL | PB164067BL | 10/11/2024 | 13:24 | PL092331.D | 9.07 | 3.55 |
| PB164067BS | PB164067BS | 10/11/2024 | 13:37 | PL092332.D | 9.06 | 3.54 |
| Chamberlain Ave | P4258-03 | 10/11/2024 | 13:51 | PL092333.D | 9.06 | 3.54 |
| SP-2MS | P4385-04MS | 10/11/2024 | 14:31 | PL092336.D | 9.06 | 3.54 |
| SP-2MSD | P4385-04MSD | 10/11/2024 | 14:44 | PL092337.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 10/11/2024 | 17:31 | PL092346.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 10/11/2024 | 17:48 | PL092347.D | 9.06 | 3.54 |

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# Analytical Sequence

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **Instrument ID:** ECD_L

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 09/23/2024 09/23/2024

**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 | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 09/23/2024 | 10:52 | PL091953.D | 7.92 | 2.78 |
| PEM | PEM | 09/23/2024 | 11:05 | PL091954.D | 7.92 | 2.78 |
| RESCHK | RESCHK | 09/23/2024 | 11:19 | PL091955.D | 7.92 | 2.78 |
| PSTDICC100 | PSTDICC100 | 09/23/2024 | 11:32 | PL091956.D | 7.92 | 2.78 |
| PSTDICC075 | PSTDICC075 | 09/23/2024 | 11:45 | PL091957.D | 7.92 | 2.78 |
| PSTDICC050 | PSTDICC050 | 09/23/2024 | 11:59 | PL091958.D | 7.92 | 2.78 |
| PSTDICC025 | PSTDICC025 | 09/23/2024 | 12:12 | PL091959.D | 7.92 | 2.78 |
| PSTDICC005 | PSTDICC005 | 09/23/2024 | 12:26 | PL091960.D | 7.92 | 2.78 |
| PCHLORICC500 | PCHLORICC500 | 09/23/2024 | 13:06 | PL091963.D | 7.92 | 2.78 |
| PTOXICC500 | PTOXICC500 | 09/23/2024 | 14:13 | PL091968.D | 7.92 | 2.78 |
| PEM | PEM | 10/11/2024 | 08:56 | PL092320.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 10/11/2024 | 11:40 | PL092329.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 10/11/2024 | 11:54 | PL092330.D | 7.92 | 2.78 |
| PB164067BL | PB164067BL | 10/11/2024 | 13:24 | PL092331.D | 7.92 | 2.78 |
| PB164067BS | PB164067BS | 10/11/2024 | 13:37 | PL092332.D | 7.92 | 2.78 |
| Chamberlain Ave | P4258-03 | 10/11/2024 | 13:51 | PL092333.D | 7.92 | 2.78 |
| SP-2MS | P4385-04MS | 10/11/2024 | 14:31 | PL092336.D | 7.92 | 2.78 |
| SP-2MSD | P4385-04MSD | 10/11/2024 | 14:44 | PL092337.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 10/11/2024 | 17:31 | PL092346.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 10/11/2024 | 17:48 | PL092347.D | 7.92 | 2.78 |

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Fax : 908 789 8922



## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**Chamberlain Ave**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** P4258-03 **Date(s) Analyzed:** 10/11/2024 10/11/2024

**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 |
|---|---|---|---|---|---|---|
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 0.27 | 13.3 |
| | 2 | 5.24 | 5.19 | 5.29 | 0.31 | |
| 4,4'-DDT | 1 | 7.02 | 6.97 | 7.07 | 0.25 | 73.9 |
| | 2 | 6.04 | 5.99 | 6.09 | 0.54 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 0.80 | 100.7 |
| | 2 | 5.05 | 5.00 | 5.10 | 0.26 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB164067BS**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** PB164067BS **Date(s) Analyzed:** 10/11/2024 10/11/2024

**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 |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.80 | 6.75 | 6.85 | 15.7 | 10.8 |
| | 2 | 5.94 | 5.89 | 5.99 | 17.5 | |
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 17.3 | 8.8 |
| | 2 | 5.79 | 5.74 | 5.84 | 18.9 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 16.2 | 0 |
| | 2 | 6.04 | 5.99 | 6.09 | 16.2 | |
| Endrin aldehyde | 1 | 6.93 | 6.88 | 6.98 | 15.8 | 4.9 |
| | 2 | 6.12 | 6.07 | 6.17 | 16.6 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 16.3 | 4.8 |
| | 2 | 6.34 | 6.29 | 6.39 | 17.1 | |
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 16.3 | 1.9 |
| | 2 | 6.62 | 6.57 | 6.67 | 16.0 | |
| Endrin ketone | 1 | 7.65 | 7.60 | 7.70 | 16.6 | 4.7 |
| | 2 | 6.85 | 6.80 | 6.90 | 17.4 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 16.2 | 3.6 |
| | 2 | 3.28 | 3.23 | 3.33 | 16.8 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 15.4 | 5.1 |
| | 2 | 3.61 | 3.56 | 3.66 | 16.2 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 16.3 | 2.4 |
| | 2 | 3.95 | 3.90 | 4.00 | 16.7 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 15.6 | 3.8 |
| | 2 | 4.23 | 4.18 | 4.28 | 16.2 | |
| beta-BHC | 1 | 4.53 | 4.48 | 4.58 | 16.3 | 3 |
| | 2 | 3.91 | 3.86 | 3.96 | 16.8 | |
| delta-BHC | 1 | 4.77 | 4.72 | 4.82 | 15.9 | 3.1 |
| | 2 | 4.14 | 4.09 | 4.19 | 16.4 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 16.0 | 7.8 |
| | 2 | 4.73 | 4.68 | 4.78 | 17.3 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**
**PB164067BS**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** PB164067BS **Date(s) Analyzed:** 10/11/2024 10/11/2024

**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 |
|---|---|---|---|---|---|---|
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 16.1 | 6.6 |
| | 2 | 5.10 | 5.05 | 5.15 | 17.2 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 16.3 | 6.5 |
| | 2 | 4.98 | 4.93 | 5.03 | 17.4 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 16.4 | 4.8 |
| | 2 | 5.05 | 5.00 | 5.10 | 17.2 | |
| 4,4'-DDE | 1 | 6.20 | 6.15 | 6.25 | 16.5 | 6.5 |
| | 2 | 5.24 | 5.19 | 5.29 | 17.6 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 16.1 | 7.2 |
| | 2 | 5.37 | 5.32 | 5.42 | 17.3 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 15.5 | 5 |
| | 2 | 5.64 | 5.59 | 5.69 | 16.3 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**SP-2MS**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** P4385-04MS **Date(s) Analyzed:** 10/11/2024 10/11/2024

**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 |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.80 | 6.75 | 6.85 | 15.1 | 5.8 |
| | 2 | 5.94 | 5.89 | 5.99 | 16.0 | |
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 19.2 | 5.3 |
| | 2 | 5.79 | 5.74 | 5.84 | 18.2 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 37.0 | 7.5 |
| | 2 | 6.04 | 5.99 | 6.09 | 39.9 | |
| Endrin aldehyde | 1 | 6.93 | 6.88 | 6.98 | 14.8 | 9.6 |
| | 2 | 6.12 | 6.07 | 6.17 | 16.3 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 15.6 | 3.2 |
| | 2 | 6.34 | 6.29 | 6.39 | 16.1 | |
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 15.5 | 5 |
| | 2 | 6.62 | 6.57 | 6.67 | 16.3 | |
| Endrin ketone | 1 | 7.65 | 7.60 | 7.70 | 21.2 | 29.8 |
| | 2 | 6.85 | 6.80 | 6.90 | 15.7 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 15.2 | 2.6 |
| | 2 | 3.28 | 3.23 | 3.33 | 15.6 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 14.6 | 4 |
| | 2 | 3.61 | 3.56 | 3.66 | 15.2 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 16.0 | 0 |
| | 2 | 3.95 | 3.90 | 4.00 | 16.0 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 14.5 | 5.4 |
| | 2 | 4.23 | 4.18 | 4.28 | 15.3 | |
| beta-BHC | 1 | 4.53 | 4.48 | 4.58 | 15.6 | 2.5 |
| | 2 | 3.91 | 3.86 | 3.96 | 16.0 | |
| delta-BHC | 1 | 4.77 | 4.72 | 4.82 | 14.6 | 0.7 |
| | 2 | 4.14 | 4.09 | 4.19 | 14.7 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 15.5 | 0 |
| | 2 | 4.73 | 4.68 | 4.78 | 15.5 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**SP-2MS**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** P4385-04MS **Date(s) Analyzed:** 10/11/2024 10/11/2024

**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 |
|---|---|---|---|---|---|---|
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 15.6 | 0.6 |
| | 2 | 5.10 | 5.05 | 5.15 | 15.5 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 16.4 | 1.8 |
| | 2 | 4.98 | 4.93 | 5.03 | 16.1 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 15.9 | 0 |
| | 2 | 5.05 | 5.00 | 5.10 | 15.9 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 38.6 | 10.8 |
| | 2 | 5.24 | 5.19 | 5.29 | 43.0 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 15.7 | 6.2 |
| | 2 | 5.37 | 5.32 | 5.42 | 16.7 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 15.2 | 10.6 |
| | 2 | 5.64 | 5.59 | 5.69 | 16.9 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**SP-2MSD**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** P4385-04MSD **Date(s) Analyzed:** 10/11/2024 10/11/2024

**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 |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 18.9 | 3.2 |
| | 2 | 5.79 | 5.74 | 5.84 | 18.3 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 36.4 | 8.7 |
| | 2 | 6.04 | 5.99 | 6.09 | 39.7 | |
| Endrin aldehyde | 1 | 6.93 | 6.88 | 6.98 | 14.6 | 10.4 |
| | 2 | 6.12 | 6.07 | 6.17 | 16.2 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 15.4 | 4.4 |
| | 2 | 6.34 | 6.29 | 6.39 | 16.1 | |
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 15.6 | 3.8 |
| | 2 | 6.62 | 6.57 | 6.67 | 16.2 | |
| Endrin ketone | 1 | 7.64 | 7.59 | 7.69 | 22.6 | 36 |
| | 2 | 6.85 | 6.80 | 6.90 | 15.7 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 14.9 | 3.9 |
| | 2 | 3.28 | 3.23 | 3.33 | 15.5 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 14.5 | 4.1 |
| | 2 | 3.61 | 3.56 | 3.66 | 15.1 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 15.7 | 1.3 |
| | 2 | 3.95 | 3.90 | 4.00 | 15.9 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 14.4 | 5.4 |
| | 2 | 4.23 | 4.18 | 4.28 | 15.2 | |
| beta-BHC | 1 | 4.53 | 4.48 | 4.58 | 15.4 | 2.6 |
| | 2 | 3.91 | 3.86 | 3.96 | 15.8 | |
| delta-BHC | 1 | 4.77 | 4.72 | 4.82 | 14.4 | 1.4 |
| | 2 | 4.14 | 4.09 | 4.19 | 14.6 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 15.2 | 2 |
| | 2 | 4.73 | 4.68 | 4.78 | 15.5 | |
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 15.4 | 0.6 |
| | 2 | 5.10 | 5.05 | 5.15 | 15.5 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**SP-2MSD**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** P4385-04MSD **Date(s) Analyzed:** 10/11/2024 10/11/2024

**Instrument ID (1):** ECD_L **Instrument ID (2):** ECD_L

**GC Column: (1):** ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 16.2 | 0.6 |
| | 2 | 4.98 | 4.93 | 5.03 | 16.1 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 15.8 | 0.6 |
| | 2 | 5.05 | 5.00 | 5.10 | 15.9 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 38.4 | 12 |
| | 2 | 5.24 | 5.19 | 5.29 | 43.3 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 15.7 | 5.6 |
| | 2 | 5.37 | 5.32 | 5.42 | 16.6 | |
| Endrin | 1 | 6.57 | 6.52 | 6.62 | 15.0 | 11.3 |
| | 2 | 5.64 | 5.59 | 5.69 | 16.8 | |
| Endosulfan II | 1 | 6.80 | 6.75 | 6.85 | 15.0 | 6.5 |
| | 2 | 5.94 | 5.89 | 5.99 | 16.0 | |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL101224\
Data File : PL092333.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 13:51
Operator : AR\AJ
Sample : P4258-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 02:33:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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... | 3.538 | 2.778 | 44192412 | 48788821 | 19.865m | 19.453 |
| 28) | SA Decachlor... | 9.058 | 7.918 | 32236668 | 46689302 | 19.678m | 18.661m |
| | Target Compounds | | | | | | |
| 6) | B beta-BHC | 4.534 | 3.915 | 776216 | 825125 | 0.585m | 0.549 |
| 10) | B gamma-Chl... | 5.941 | 4.982 | 2690620 | 1143067 | 1.089m | 0.380m# |
| 11) | B alpha-Chl... | 6.023 | 5.045 | 5068894 | 2046576 | 2.058m | 0.684m# |
| 12) | B 4,4'-DDE | 6.193 | 5.236 | 1519937 | 2218167 | 0.702 | 0.798 |
| 16) | A 4,4'-DDD | 6.715 | 5.792 | 821457 | 1523305 | 0.457m | 0.713m# |
| 17) | MA 4,4'-DDT | 7.023 | 6.040 | 1170083 | 3219483 | 0.635m | 1.392 # |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

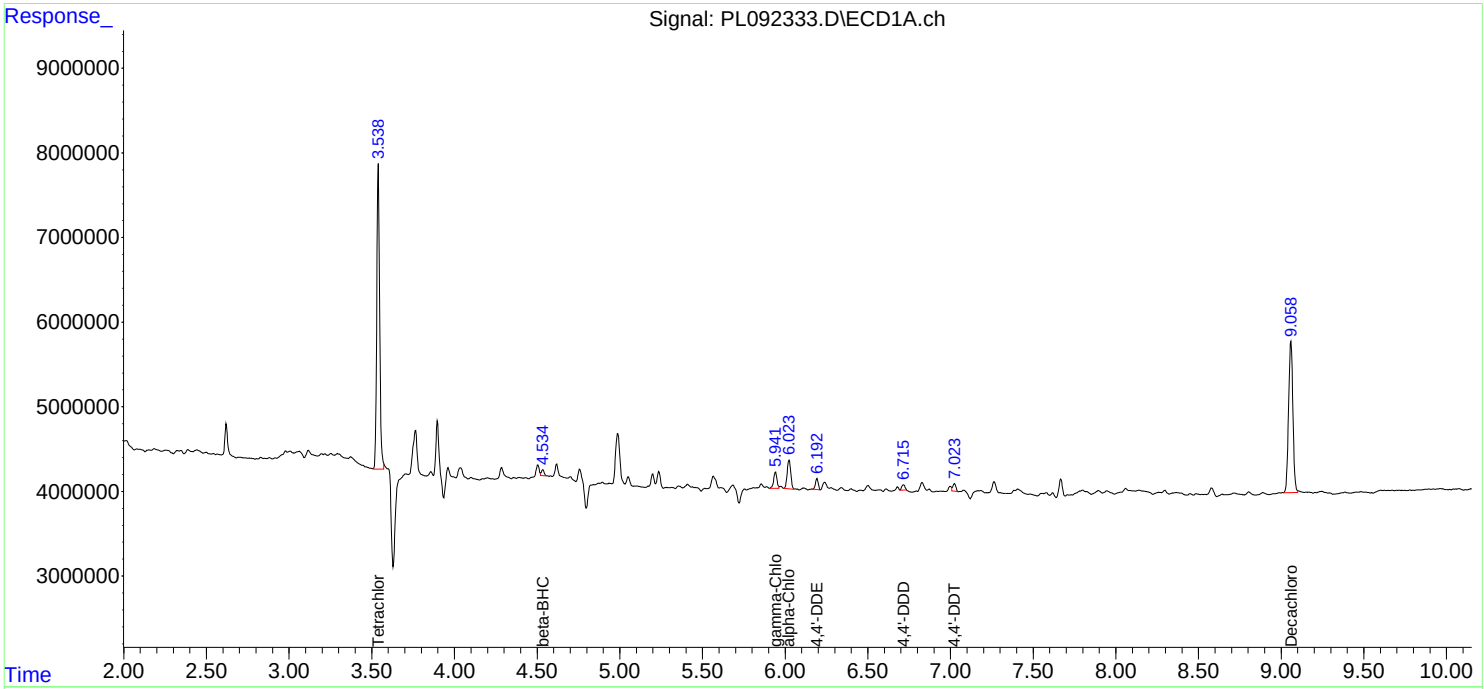
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL101224\
Data File : PL092333.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 13:51
Operator : AR\AJ
Sample : P4258-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

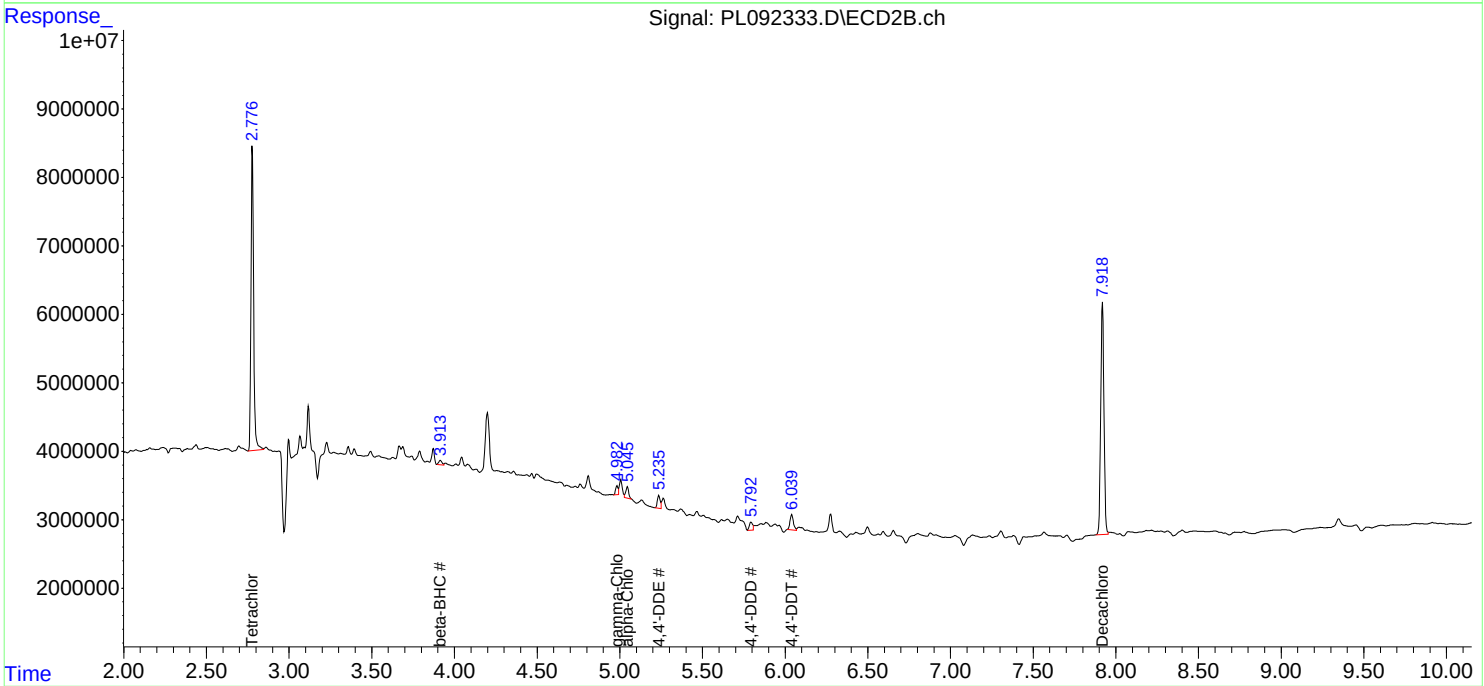
**Instrument :**
ECD_L
**ClientSampleId :**
Chamberlain Ave

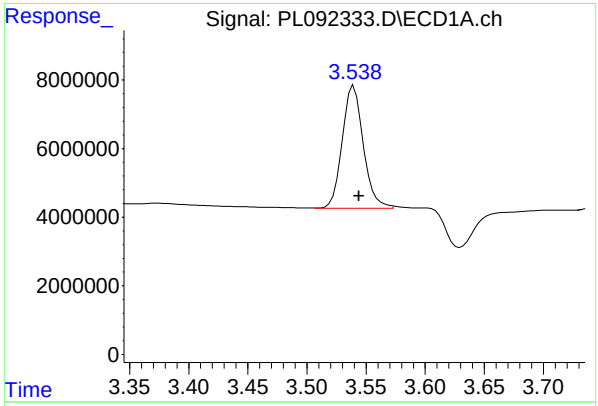
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 02:33:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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





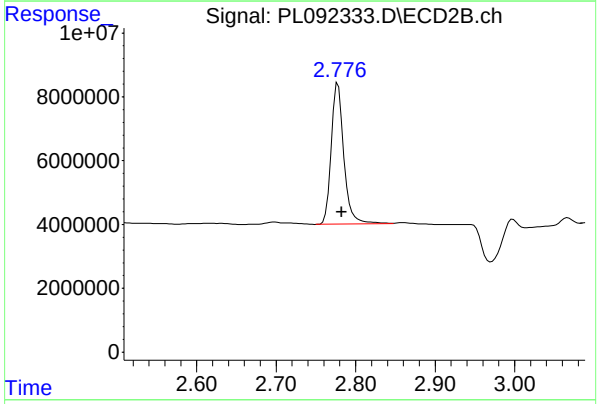

#1 Tetrachloro-m-xylene

R.T.: 3.538 min
Delta R.T.: -0.006 mi
Response: 44192412
Conc: 19.86 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
Chamberlain Ave

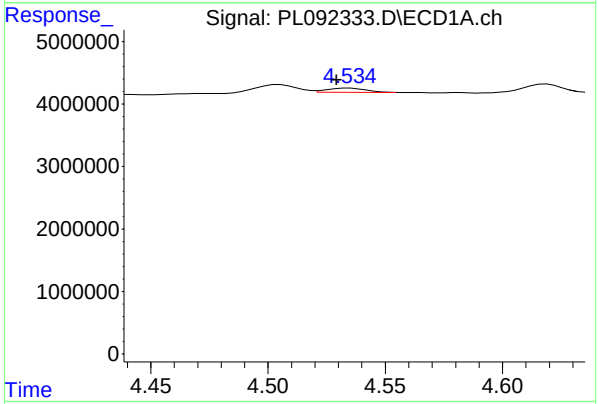
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



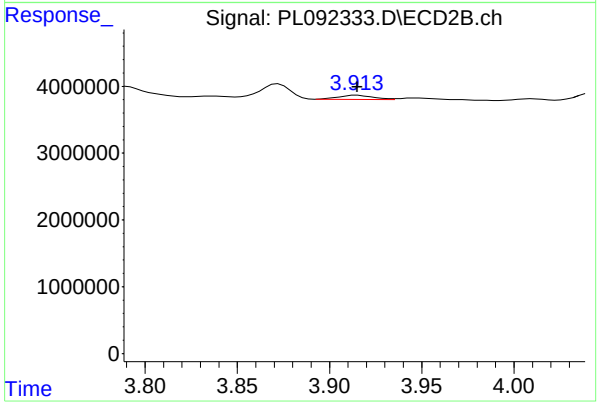

#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: -0.004 min
Response: 48788821
Conc: 19.45 ng/ml



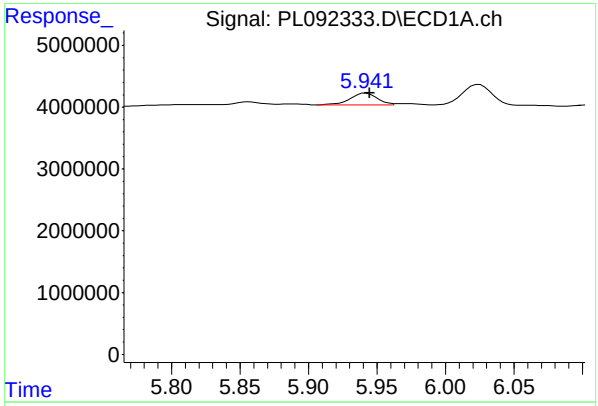

#6 beta-BHC

R.T.: 4.534 min
Delta R.T.: 0.004 min
Response: 776216
Conc: 0.59 ng/ml m




#6 beta-BHC

R.T.: 3.915 min
Delta R.T.: 0.000 min
Response: 825125
Conc: 0.55 ng/ml



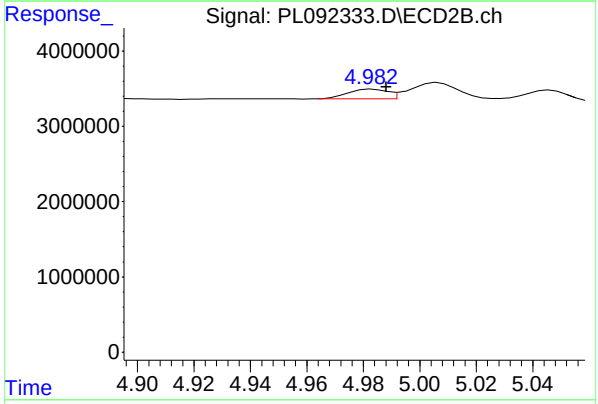

#10 gamma-Chlordane

R.T.: 5.941 min
Delta R.T.: -0.004 min
Response: 2690620
Conc: 1.09 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
Chamberlain Ave

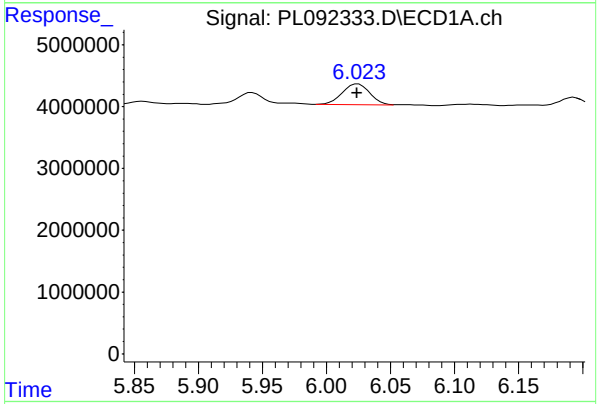
**Manual Integrations**
**APPROVED**

Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



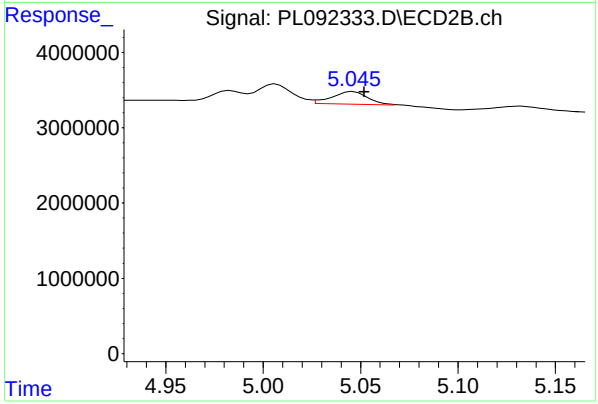

#10 gamma-Chlordane

R.T.: 4.982 min
Delta R.T.: -0.006 min
Response: 1143067
Conc: 0.38 ng/ml m



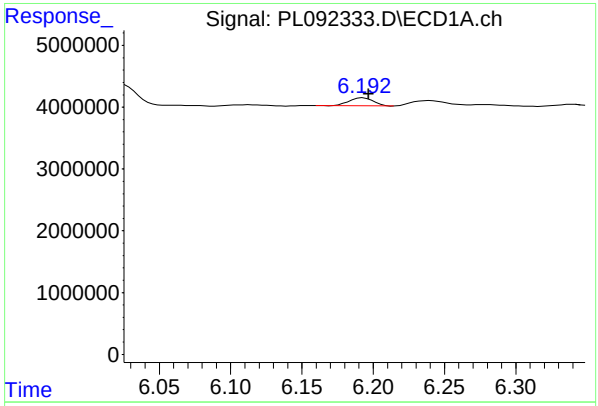

#11 alpha-Chlordane

R.T.: 6.023 min
Delta R.T.: 0.000 min
Response: 5068894
Conc: 2.06 ng/ml m




#11 alpha-Chlordane

R.T.: 5.045 min
Delta R.T.: -0.007 min
Response: 2046576
Conc: 0.68 ng/ml m



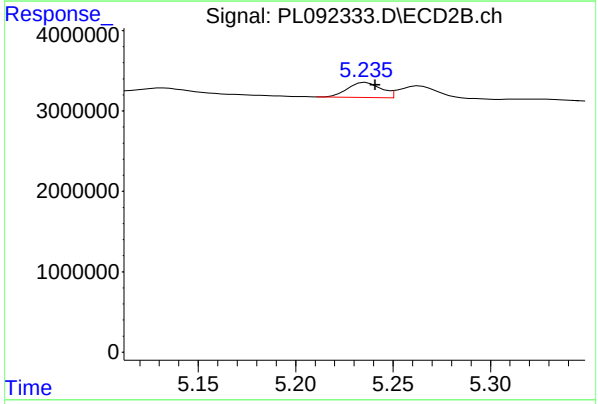

#12 4,4'-DDE

R.T.: 6.193 min
Delta R.T.: -0.004 min
Response: 1519937
Conc: 0.70 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
Chamberlain Ave

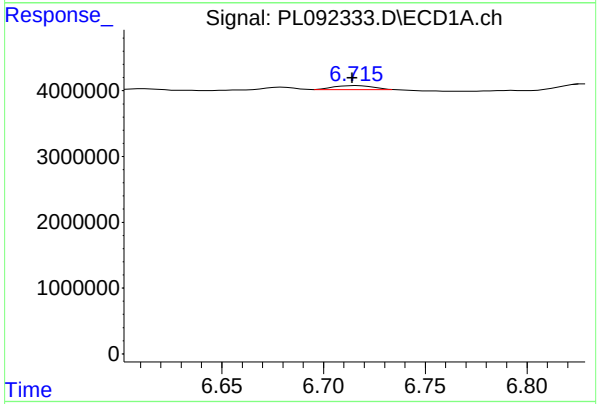
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



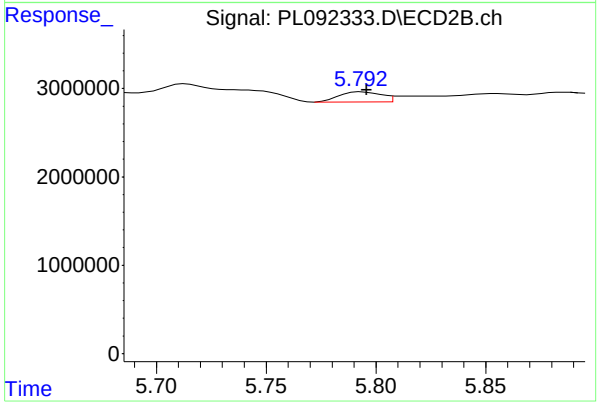

#12 4,4'-DDE

R.T.: 5.236 min
Delta R.T.: -0.005 min
Response: 2218167
Conc: 0.80 ng/ml



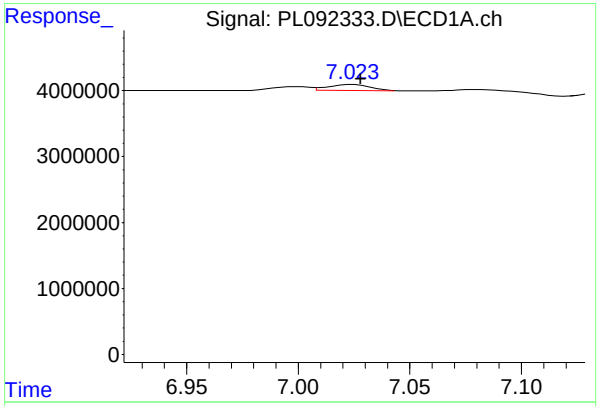

#16 4,4'-DDD

R.T.: 6.715 min
Delta R.T.: 0.000 min
Response: 821457
Conc: 0.46 ng/ml m




#16 4,4'-DDD

R.T.: 5.792 min
Delta R.T.: -0.004 min
Response: 1523305
Conc: 0.71 ng/ml m



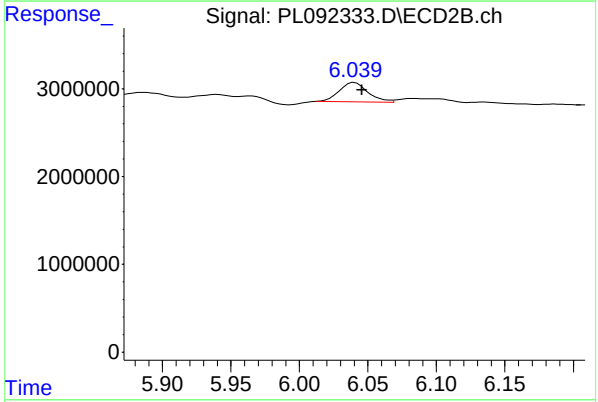

#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: -0.005 min
Response: 1170083
Conc: 0.64 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
Chamberlain Ave

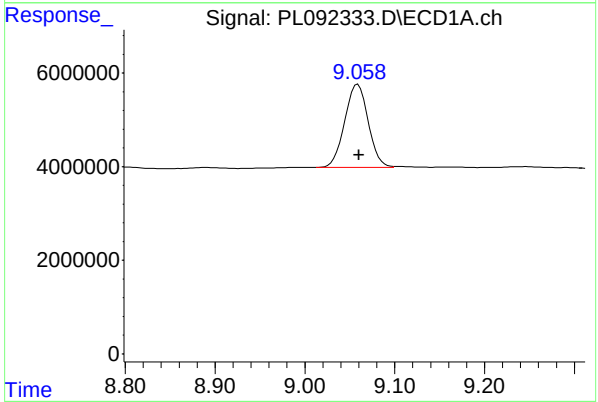
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



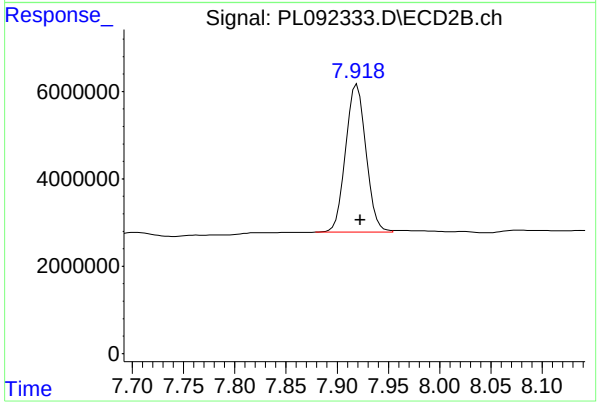

#17 4,4'-DDT

R.T.: 6.040 min
Delta R.T.: -0.005 min
Response: 3219483
Conc: 1.39 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.058 min
Delta R.T.: -0.003 min
Response: 32236668
Conc: 19.68 ng/ml m




#28 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: -0.005 min
Response: 46689302
Conc: 18.66 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL101224\
Data File : PL092331.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 13:24
Operator : AR\AJ
Sample : PB164067BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 02:30:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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 :**
PB164067BL

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.550 | 2.780 | 42240919 | 45283506 | 18.988 | 18.055 |
| 28) | SA Decachlor... | 9.068 | 7.923 | 32020266 | 49120496 | 19.546m | 19.633 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

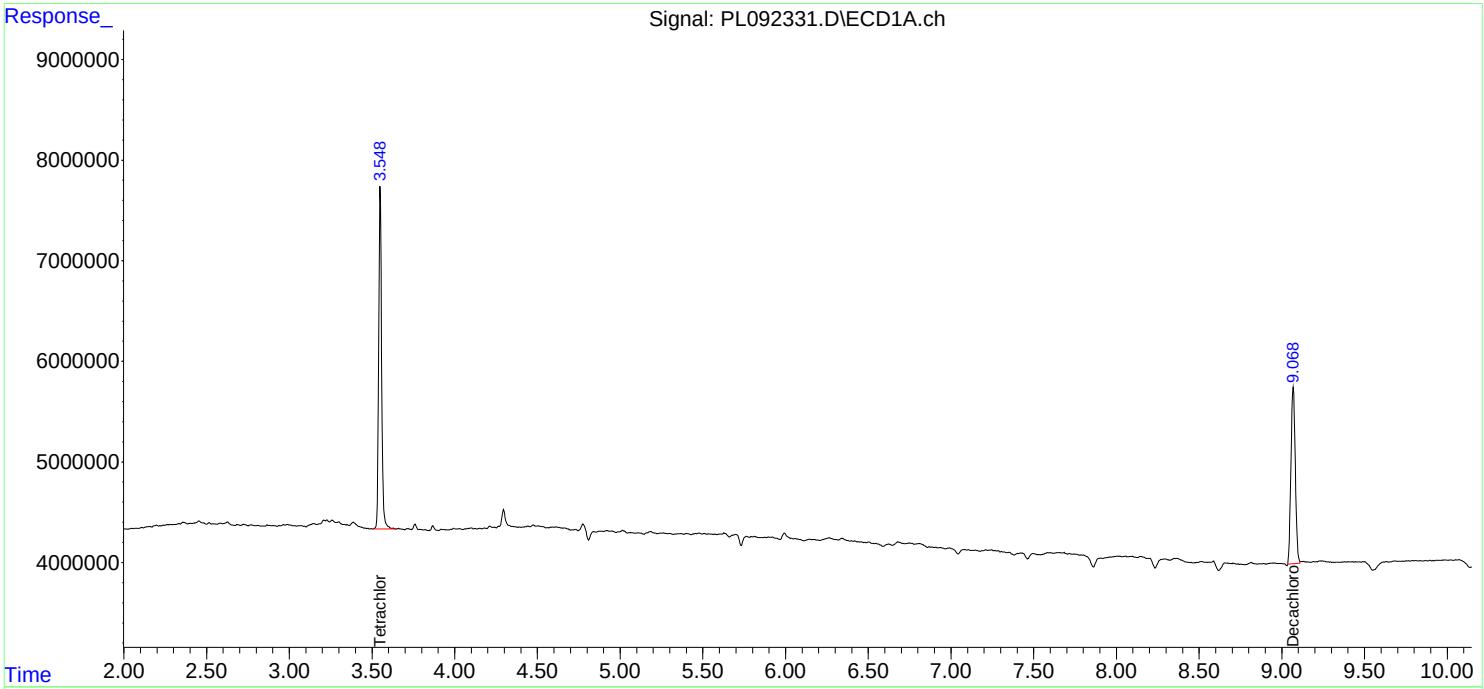
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL101224\
Data File : PL092331.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 13:24
Operator : AR\AJ
Sample : PB164067BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

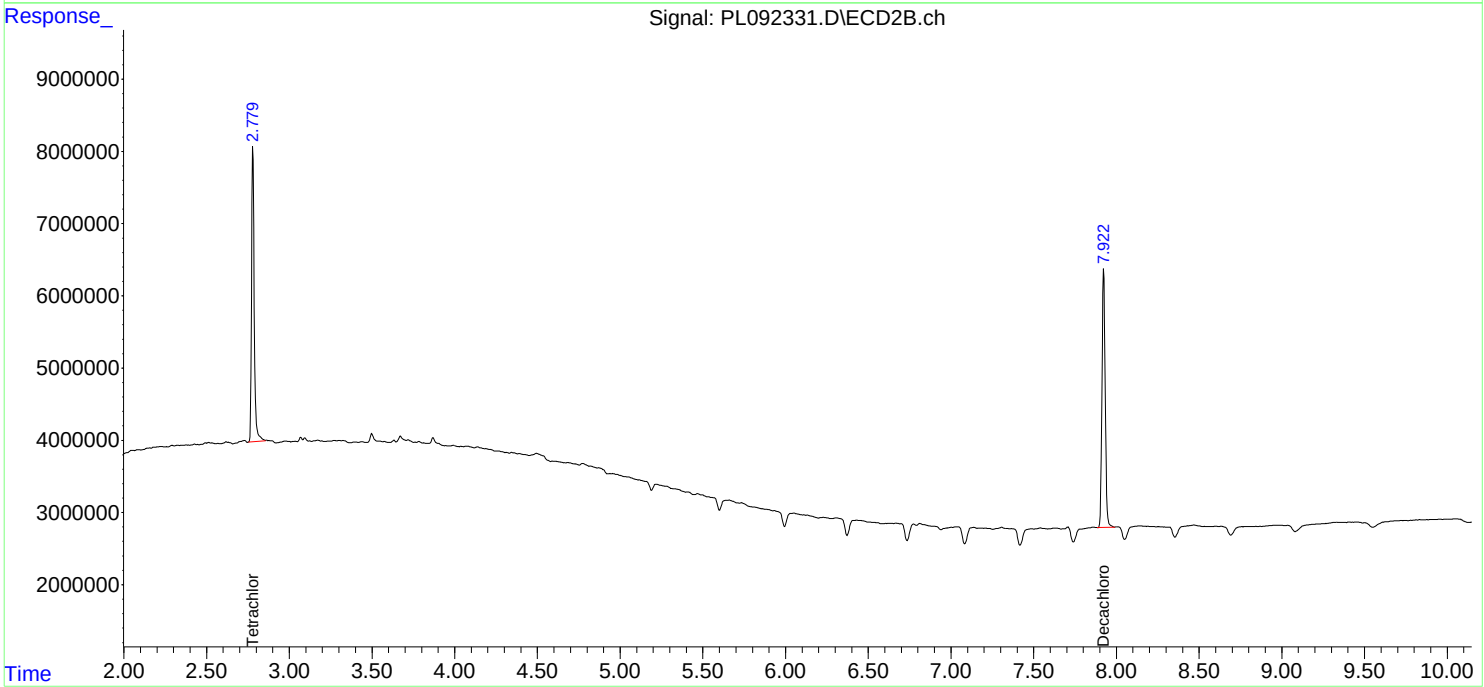
**Instrument :**
ECD_L
**ClientSampleId :**
PB164067BL

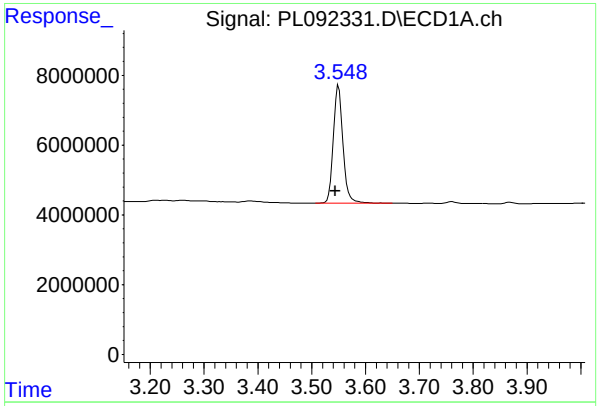
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 02:30:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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





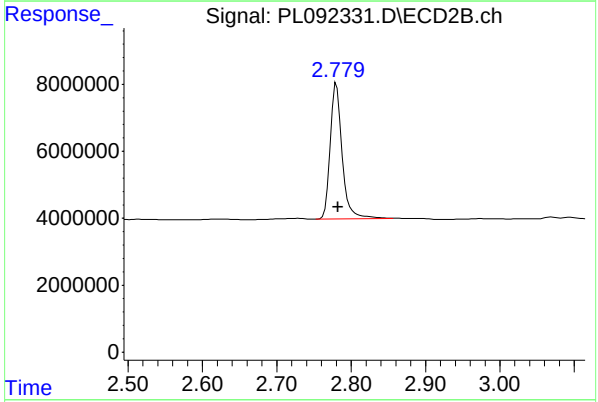

#1 Tetrachloro-m-xylene

R.T.: 3.550 min
Delta R.T.: 0.006 mi
Response: 42240919
Conc: 18.99 ng/m

**Instrument :**
ECD_L
**ClientSampleId :**
PB164067BL

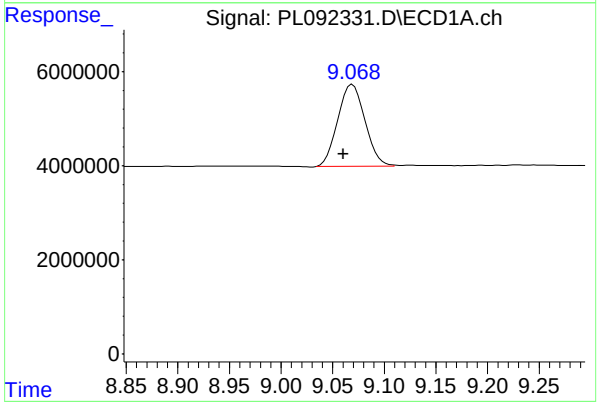
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



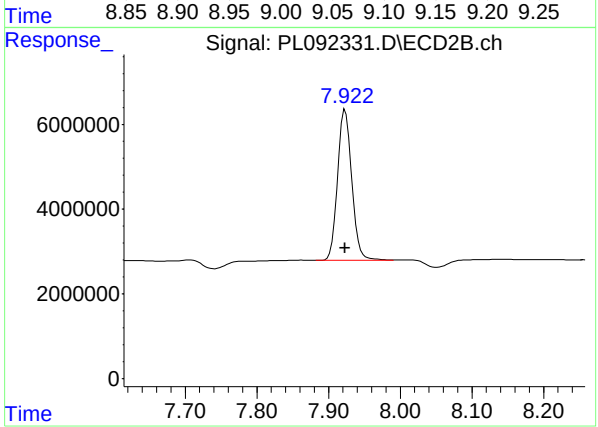

#1 Tetrachloro-m-xylene

R.T.: 2.780 min
Delta R.T.: -0.002 min
Response: 45283506
Conc: 18.06 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.068 min
Delta R.T.: 0.008 min
Response: 32020266
Conc: 19.55 ng/ml m




#28 Decachlorobiphenyl

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 49120496
Conc: 19.63 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL101224\
Data File : PL092332.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 13:37
Operator : AR\AJ
Sample : PB164067BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PB164067BS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 02:32:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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 | 45975229 | 49932667 | 20.666 | 19.909 |
| 28) | SA Decachlor... | 9.060 | 7.920 | 36058096 | 53289886 | 22.010 | 21.299 |
| | Target Compounds | | | | | | |
| 2) | A alpha-BHC | 3.996 | 3.281 | 150.4E6 | 183.2E6 | 48.566 | 50.294 |
| 3) | MA gamma-BHC... | 4.329 | 3.611 | 143.2E6 | 171.8E6 | 46.224 | 48.654 |
| 4) | MA Heptachlor | 4.918 | 3.950 | 135.6E6 | 172.8E6 | 49.019 | 50.079 |
| 5) | MB Aldrin | 5.260 | 4.230 | 129.6E6 | 165.6E6 | 46.669 | 48.698 |
| 6) | B beta-BHC | 4.527 | 3.910 | 64993496 | 75607992 | 49.001 | 50.301 |
| 7) | B delta-BHC | 4.774 | 4.140 | 137.5E6 | 170.6E6 | 47.668 | 49.133 |
| 8) | B Heptachlo... | 5.687 | 4.733 | 122.5E6 | 157.3E6 | 48.121 | 52.044 |
| 9) | A Endosulfan I | 6.073 | 5.103 | 111.6E6 | 142.0E6 | 48.232 | 51.752 |
| 10) | B gamma-Chl... | 5.944 | 4.983 | 121.0E6 | 157.3E6 | 48.970 | 52.287 |
| 11) | B alpha-Chl... | 6.023 | 5.047 | 121.6E6 | 154.4E6 | 49.345 | 51.568 |
| 12) | B 4,4'-DDE | 6.196 | 5.236 | 107.1E6 | 146.8E6 | 49.463 | 52.822 |
| 13) | MA Dieldrin | 6.348 | 5.368 | 117.7E6 | 152.0E6 | 48.244 | 51.859 |
| 14) | MA Endrin | 6.577 | 5.644 | 95565947 | 128.3E6 | 46.376m | 48.920 |
| 15) | B Endosulfa... | 6.798 | 5.939 | 103.9E6 | 131.2E6 | 47.242 | 52.423 |
| 16) | A 4,4'-DDD | 6.712 | 5.791 | 93139348 | 121.1E6 | 51.867m | 56.689 |
| 17) | MA 4,4'-DDT | 7.027 | 6.042 | 89654772 | 112.3E6 | 48.694 | 48.553 |
| 18) | B Endrin al... | 6.928 | 6.118 | 82591688 | 101.4E6 | 47.391 | 49.694 |
| 19) | B Endosulfa... | 7.162 | 6.341 | 96778659 | 124.1E6 | 48.822 | 51.431 |
| 20) | A Methoxychlor | 7.504 | 6.618 | 48010573 | 59992884 | 48.905 | 47.981 |
| 21) | B Endrin ke... | 7.648 | 6.847 | 109.5E6 | 145.0E6 | 49.817 | 52.354 |
| 22) | Mirex | 8.121 | 7.028 | 84428426 | 116.8E6 | 46.879 | 48.005 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

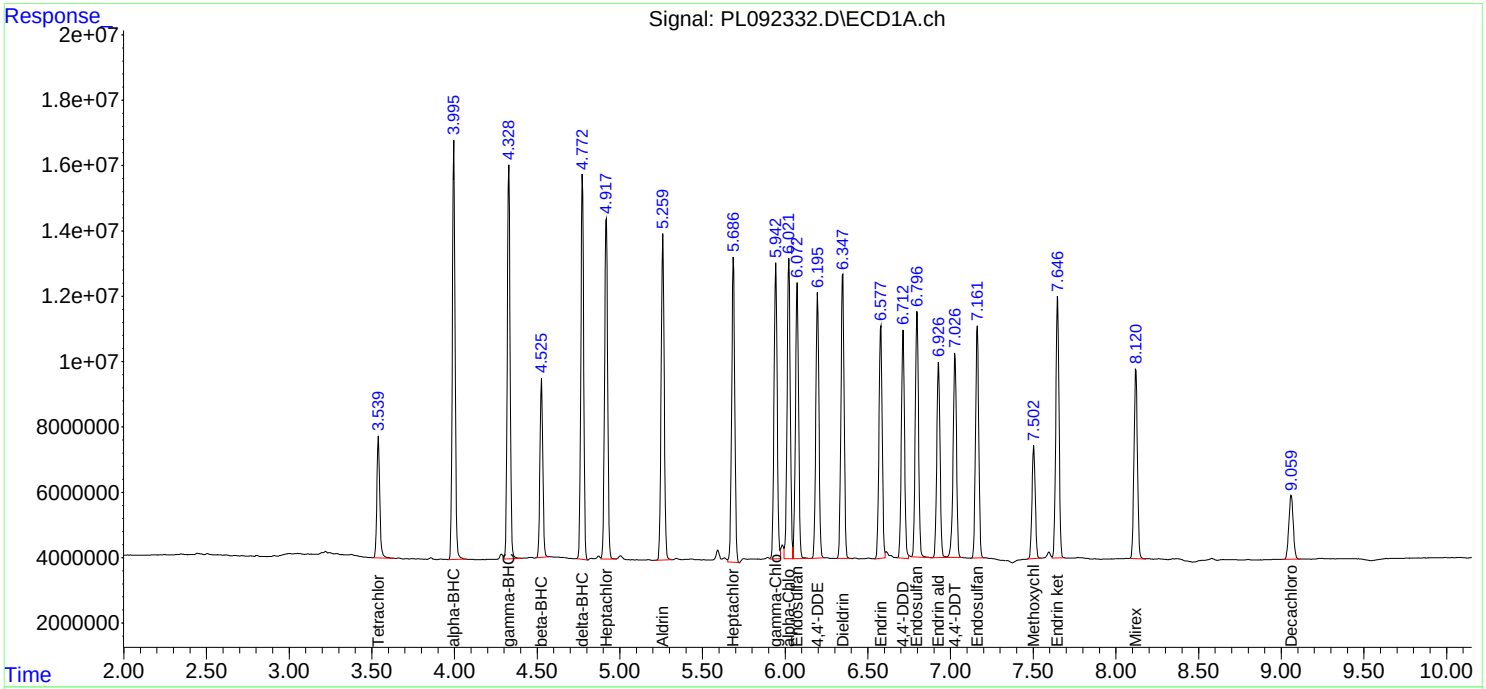
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL101224\
Data File : PL092332.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 13:37
Operator : AR\AJ
Sample : PB164067BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

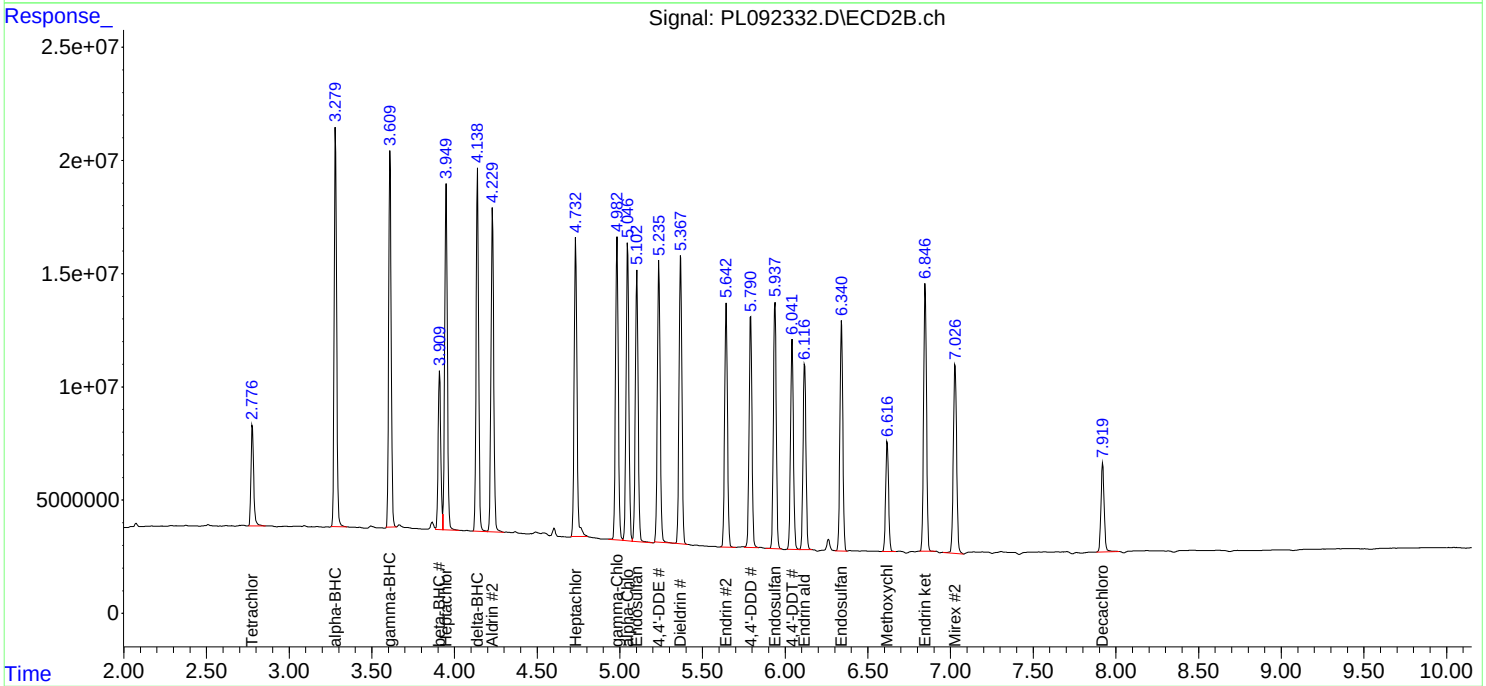
**Instrument :**
ECD_L
**ClientSampleId :**
PB164067BS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 02:32:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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\PL101224\
Data File : PL092336.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 14:31
Operator : AR\AJ
Sample : P4385-04MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
SP-2MS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 02:39:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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... | 3.538 | 2.778 | 36382584 | 40854859 | 16.354m | 16.289 | |
| 28) | SA Decachlor... | 9.057 | 7.920 | 27693861 | 39186066 | 16.905 | 15.662 | |
| | Target Compounds | | | | | | | |
| 2) | A alpha-BHC | 3.996 | 3.281 | 134.6E6 | 162.6E6 | 43.456 | 44.625 | |
| 3) | MA gamma-BHC... | 4.328 | 3.611 | 129.1E6 | 153.3E6 | 41.661 | 43.417 | |
| 4) | MA Heptachlor | 4.917 | 3.950 | 126.5E6 | 158.2E6 | 45.740 | 45.840 | |
| 5) | MB Aldrin | 5.259 | 4.230 | 115.0E6 | 149.0E6 | 41.400 | 43.819 | |
| 6) | B beta-BHC | 4.526 | 3.911 | 59093735 | 68616037 | 44.553 | 45.650 | |
| 7) | B delta-BHC | 4.772 | 4.140 | 120.5E6 | 146.0E6 | 41.782 | 42.067 | |
| 8) | B Heptachlo... | 5.685 | 4.733 | 112.7E6 | 134.1E6 | 44.267 | 44.346 | |
| 9) | A Endosulfan I | 6.071 | 5.103 | 103.4E6 | 121.9E6 | 44.684 | 44.430 | |
| 10) | B gamma-Chl... | 5.941 | 4.983 | 115.8E6 | 138.0E6 | 46.873 | 45.873 | |
| 11) | B alpha-Chl... | 6.021 | 5.046 | 112.2E6 | 136.3E6 | 45.559 | 45.542 | |
| 12) | B 4,4'-DDE | 6.194 | 5.235 | 238.8E6 | 341.2E6 | 110.322 | 122.800 | |
| 13) | MA Dieldrin | 6.346 | 5.367 | 109.6E6 | 139.6E6 | 44.925 | 47.622 | |
| 14) | MA Endrin | 6.575 | 5.643 | 89466843 | 126.6E6 | 43.416m | 48.268 | |
| 15) | B Endosulfa... | 6.796 | 5.938 | 94635331 | 114.5E6 | 43.021 | 45.768 | |
| 16) | A 4,4'-DDD | 6.710 | 5.791 | 98343576 | 111.3E6 | 54.766m | 52.124 | |
| 17) | MA 4,4'-DDT | 7.026 | 6.041 | 194.6E6 | 263.5E6 | 105.674 | 113.895 | |
| 18) | B Endrin al... | 6.926 | 6.117 | 73648375 | 94861372 | 42.260 | 46.484 | |
| 19) | B Endosulfa... | 7.160 | 6.340 | 88123965 | 111.1E6 | 44.456 | 46.046 | |
| 20) | A Methoxychlor | 7.502 | 6.618 | 43617495 | 58138848 | 44.430 | 46.498 | |
| 21) | B Endrin ke... | 7.645 | 6.846 | 133.2E6 | 124.5E6 | 60.600m | 44.946 | # |
| 22) | Mirex | 8.119 | 7.027 | 74568357 | 104.1E6 | 41.404 | 42.800 | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

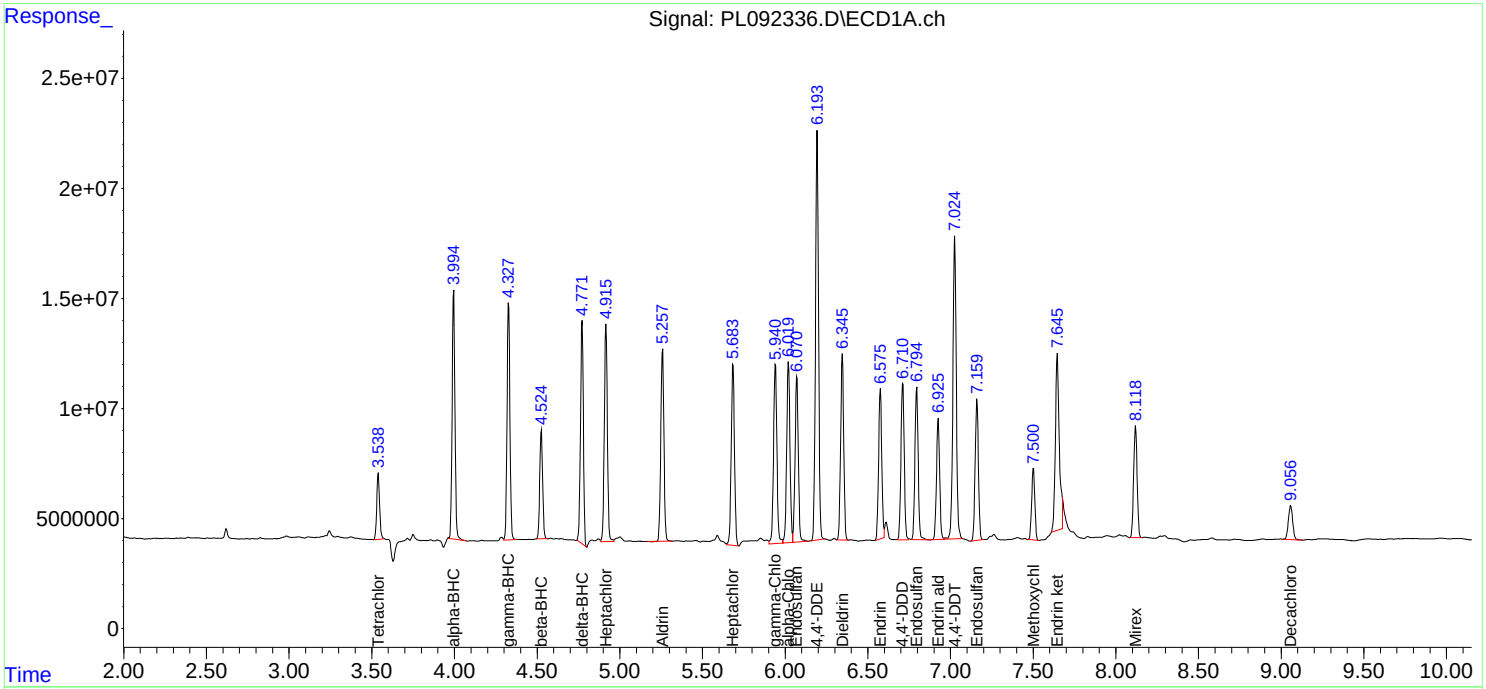
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL101224\
Data File : PL092336.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 14:31
Operator : AR\AJ
Sample : P4385-04MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

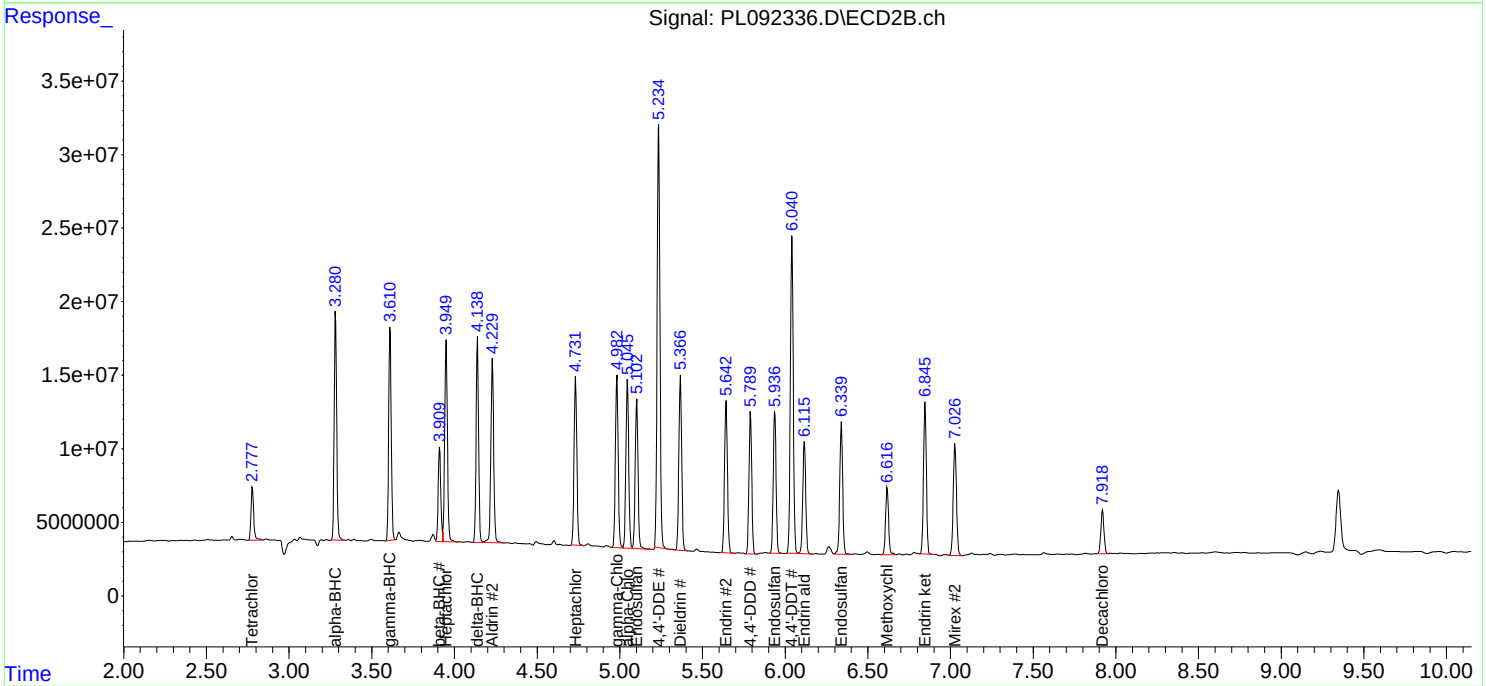
**Instrument :**
ECD_L
**ClientSampleId :**
SP-2MS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 02:39:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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\PL101224\
Data File : PL092337.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 14:44
Operator : AR\AJ
Sample : P4385-04MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
SP-2MSD

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 02:41:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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... | 3.538 | 2.778 | 36996442 | 39858520 | 16.630m | 15.892 |
| 28) | SA Decachlor... | 9.057 | 7.919 | 27464423 | 39130261 | 16.765 | 15.640 |
| | **Target Compounds** | | | | | | |
| 2) | A alpha-BHC | 3.996 | 3.281 | 132.1E6 | 161.7E6 | 42.668 | 44.377 |
| 3) | MA gamma-BHC... | 4.328 | 3.611 | 127.9E6 | 152.2E6 | 41.276 | 43.113 |
| 4) | MA Heptachlor | 4.917 | 3.950 | 124.1E6 | 156.5E6 | 44.860 | 45.345 |
| 5) | MB Aldrin | 5.258 | 4.230 | 113.8E6 | 147.7E6 | 40.986 | 43.436 |
| 6) | B beta-BHC | 4.525 | 3.911 | 58414212 | 67992634 | 44.040 | 45.235 |
| 7) | B delta-BHC | 4.772 | 4.140 | 118.5E6 | 145.1E6 | 41.079 | 41.784 |
| 8) | B Heptachlo... | 5.685 | 4.733 | 110.7E6 | 133.4E6 | 43.506 | 44.141 |
| 9) | A Endosulfan I | 6.070 | 5.103 | 102.0E6 | 121.6E6 | 44.074 | 44.305 |
| 10) | B gamma-Chl... | 5.941 | 4.983 | 114.1E6 | 138.6E6 | 46.177 | 46.068 |
| 11) | B alpha-Chl... | 6.020 | 5.047 | 110.8E6 | 136.2E6 | 44.986 | 45.508 |
| 12) | B 4,4'-DDE | 6.193 | 5.236 | 237.1E6 | 343.2E6 | 109.560 | 123.516 |
| 13) | MA Dieldrin | 6.346 | 5.367 | 109.0E6 | 138.8E6 | 44.711 | 47.327 |
| 14) | MA Endrin | 6.574 | 5.643 | 88049972 | 126.1E6 | 42.728m | 48.095 |
| 15) | B Endosulfa... | 6.795 | 5.938 | 94097834 | 114.4E6 | 42.777 | 45.708 |
| 16) | A 4,4'-DDD | 6.710 | 5.791 | 96987003 | 111.9E6 | 54.010m | 52.393 |
| 17) | MA 4,4'-DDT | 7.026 | 6.042 | 191.5E6 | 262.5E6 | 103.990 | 113.479 |
| 18) | B Endrin al... | 6.925 | 6.117 | 72870983 | 94684643 | 41.813 | 46.398 |
| 19) | B Endosulfa... | 7.160 | 6.340 | 87464369 | 110.8E6 | 44.123 | 45.911 |
| 20) | A Methoxychlor | 7.501 | 6.617 | 43749446 | 57871829 | 44.564 | 46.285 |
| 21) | B Endrin ke... | 7.644 | 6.846 | 141.8E6 | 124.0E6 | 64.510m | 44.785 # |
| 22) | Mirex | 8.119 | 7.027 | 73912736 | 103.5E6 | 41.040 | 42.563 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

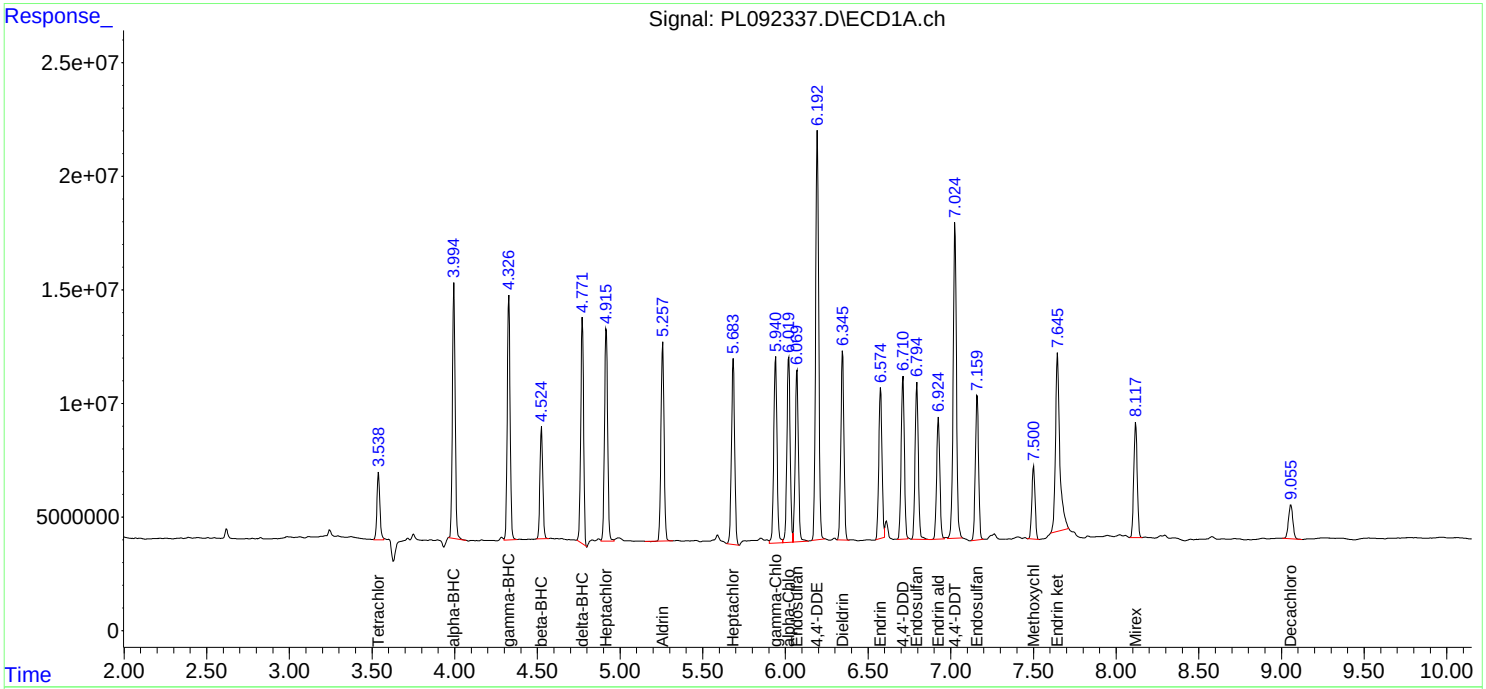
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL101224\
Data File : PL092337.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 14:44
Operator : AR\AJ
Sample : P4385-04MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

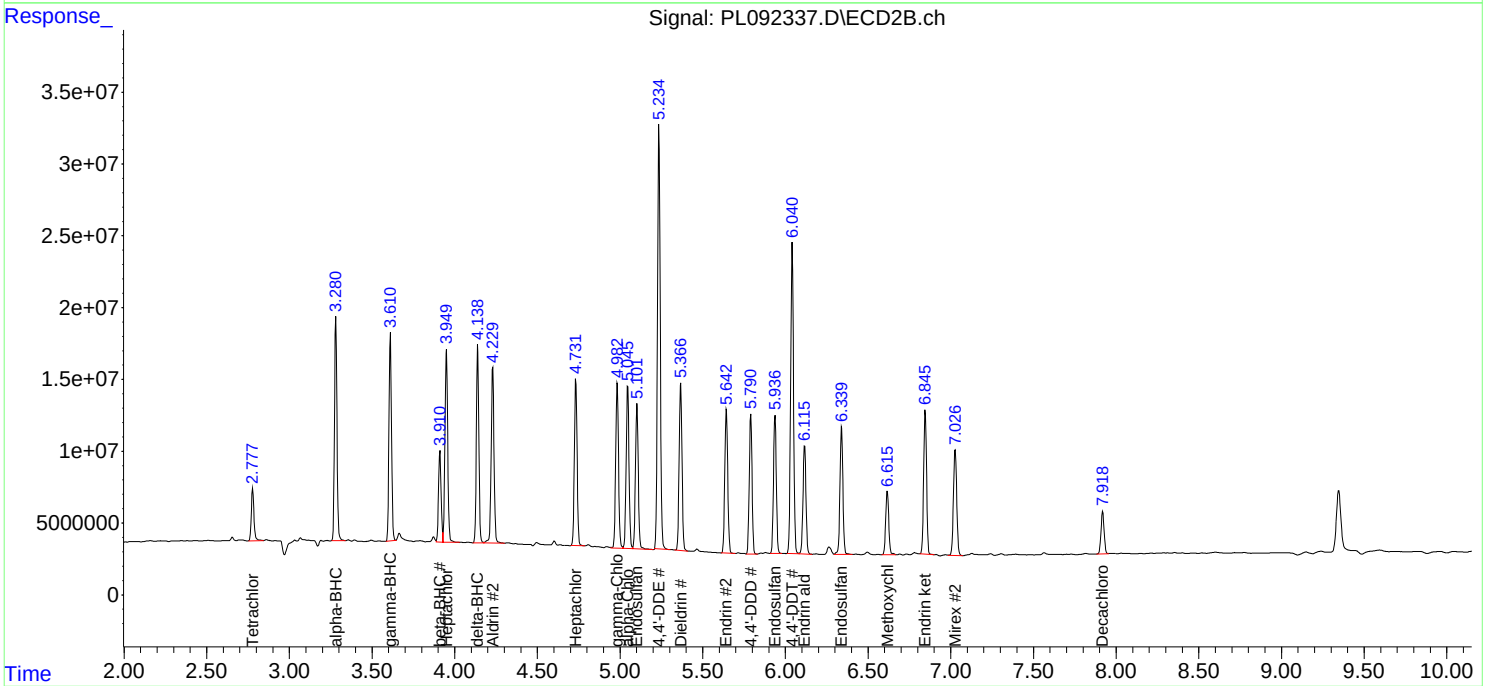
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 02:41:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 2024
Response via : Initial Calibration
Integrator: ChemStation

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 :**
SP-2MSD

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



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

# Manual Integration Report

| Sequence: | PL092324 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PL091954.D | Endrin ketone #2 | Abdul | 9/24/2024 9:17:41 AM | Ankita | 9/24/2024 11:06:36 | Peak Integrated by Software |
| PSTDICC025 | PL091959.D | Heptachlor epoxide | Abdul | 9/24/2024 9:17:44 AM | Ankita | 9/24/2024 11:06:38 | Peak Integrated by Software |
| PSTDICC005 | PL091960.D | delta-BHC | Abdul | 9/24/2024 9:17:47 AM | Ankita | 9/24/2024 11:06:40 | Peak Integrated by Software |
| PSTDICC005 | PL091960.D | Endrin ketone #2 | Abdul | 9/24/2024 9:17:47 AM | Ankita | 9/24/2024 11:06:40 | Peak Integrated by Software |
| PSTDICC005 | PL091960.D | Heptachlor | Abdul | 9/24/2024 9:17:47 AM | Ankita | 9/24/2024 11:06:40 | Peak Integrated by Software |
| PSTDICC005 | PL091960.D | Heptachlor epoxide | Abdul | 9/24/2024 9:17:47 AM | Ankita | 9/24/2024 11:06:40 | Peak Integrated by Software |
| PSTDICC005 | PL091960.D | Methoxychlor | Abdul | 9/24/2024 9:17:47 AM | Ankita | 9/24/2024 11:06:40 | Peak Integrated by Software |
| PEM | PL091975.D | 4,4"-DDE | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM | PL091975.D | 4,4"-DDE #2 | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM | PL091975.D | 4,4"-DDT #2 | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM | PL091975.D | Endrin ketone #2 | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM | PL091975.D | gamma-BHC (Lindane) | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM | PL091975.D | Methoxychlor #2 | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL092324 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PSTDCCC050 | PL091976.D | 4,4"-DDE #2 | Abdul | 9/24/2024 9:18:08 AM | Ankita | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | Aldrin #2 | Abdul | 9/24/2024 9:18:08 AM | Ankita | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | delta-BHC #2 | Abdul | 9/24/2024 9:18:08 AM | Ankita | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | Endrin aldehyde | Abdul | 9/24/2024 9:18:08 AM | Ankita | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | Endrin ketone #2 | Abdul | 9/24/2024 9:18:08 AM | Ankita | 9/24/2024 11:06:48 | Peak Integrated by Software |
| I.BLK | PL091988.D | Tetrachloro-m-xylene | Abdul | 9/24/2024 9:23:07 AM | Ankita | 9/24/2024 11:07:26 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | 4,4"-DDD | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | 4,4"-DDE #2 | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Aldrin #2 | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | delta-BHC #2 | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Endosulfan II | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Endosulfan II #2 | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Endrin | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL092324 | 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: | PL101224 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PL092320.D | 4,4"-DDD | Abdul | 10/14/2024 8:50:26 AM | Ankita | 10/14/2024 9:17:25 | Peak Integrated by Software |
| PEM | PL092320.D | 4,4"-DDE | Abdul | 10/14/2024 8:50:26 AM | Ankita | 10/14/2024 9:17:25 | Peak Integrated by Software |
| PEM | PL092320.D | 4,4"-DDT | Abdul | 10/14/2024 8:50:26 AM | Ankita | 10/14/2024 9:17:25 | Peak Integrated by Software |
| PEM | PL092320.D | Endrin | Abdul | 10/14/2024 8:50:26 AM | Ankita | 10/14/2024 9:17:25 | Peak Integrated by Software |
| PSTDCCC050 | PL092321.D | 4,4"-DDD | Abdul | 10/14/2024 8:50:41 AM | Ankita | 10/14/2024 9:17:27 | Peak Integrated by Software |
| PSTDCCC050 | PL092321.D | 4,4"-DDE #2 | Abdul | 10/14/2024 8:50:41 AM | Ankita | 10/14/2024 9:17:27 | Peak Integrated by Software |
| PSTDCCC050 | PL092321.D | Aldrin #2 | Abdul | 10/14/2024 8:50:41 AM | Ankita | 10/14/2024 9:17:27 | Peak Integrated by Software |
| PSTDCCC050 | PL092321.D | alpha-Chlordane | Abdul | 10/14/2024 8:50:41 AM | Ankita | 10/14/2024 9:17:27 | Peak Integrated by Software |
| PSTDCCC050 | PL092321.D | delta-BHC #2 | Abdul | 10/14/2024 8:50:41 AM | Ankita | 10/14/2024 9:17:27 | Peak Integrated by Software |
| PSTDCCC050 | PL092321.D | Endrin ketone #2 | Abdul | 10/14/2024 8:50:41 AM | Ankita | 10/14/2024 9:17:27 | Peak Integrated by Software |
| PSTDCCC050 | PL092321.D | gamma-Chlordane | Abdul | 10/14/2024 8:50:41 AM | Ankita | 10/14/2024 9:17:27 | Peak Integrated by Software |
| PSTDCCC050 | PL092321.D | Heptachlor epoxide | Abdul | 10/14/2024 8:50:41 AM | Ankita | 10/14/2024 9:17:27 | Peak Integrated by Software |
| PSTDCCC050 | PL092330.D | 4,4"-DDD | Abdul | 10/14/2024 4:25:22 PM | Ankita | 10/14/2024 4:26:32 | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | PL101224 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PSTDCCC050 | PL092330.D | 4,4"-DDE #2 | Abdul | 10/14/2024 4:25:22 PM | Ankita | 10/14/2024 4:26:32 | Peak Integrated by Software |
| PSTDCCC050 | PL092330.D | Aldrin #2 | Abdul | 10/14/2024 4:25:22 PM | Ankita | 10/14/2024 4:26:32 | Peak Integrated by Software |
| PSTDCCC050 | PL092330.D | alpha-Chlordane | Abdul | 10/14/2024 4:25:22 PM | Ankita | 10/14/2024 4:26:32 | Peak Integrated by Software |
| PSTDCCC050 | PL092330.D | delta-BHC #2 | Abdul | 10/14/2024 4:25:22 PM | Ankita | 10/14/2024 4:26:32 | Peak Integrated by Software |
| PSTDCCC050 | PL092330.D | Endrin ketone #2 | Abdul | 10/14/2024 4:25:22 PM | Ankita | 10/14/2024 4:26:32 | Peak Integrated by Software |
| PSTDCCC050 | PL092330.D | gamma-Chlordane | Abdul | 10/14/2024 4:25:22 PM | Ankita | 10/14/2024 4:26:32 | Peak Integrated by Software |
| PSTDCCC050 | PL092330.D | Heptachlor epoxide | Abdul | 10/14/2024 4:25:22 PM | Ankita | 10/14/2024 4:26:32 | Peak Integrated by Software |
| PSTDCCC050 | PL092330.D | Mirex #2 | Abdul | 10/14/2024 4:25:22 PM | Ankita | 10/14/2024 4:26:32 | Peak Integrated by Software |
| PB164067BL | PL092331.D | Decachlorobiphenyl | Abdul | 10/14/2024 8:51:20 AM | Ankita | 10/14/2024 9:17:59 | Peak Integrated by Software |
| PB164067BS | PL092332.D | 4,4"-DDD | Abdul | 10/14/2024 8:51:24 AM | Ankita | 10/14/2024 9:18:01 | Peak Integrated by Software |
| PB164067BS | PL092332.D | Endrin | Abdul | 10/14/2024 8:51:24 AM | Ankita | 10/14/2024 9:18:01 | Peak Integrated by Software |
| P4258-03 | PL092333.D | 4,4"-DDD | Abdul | 10/14/2024 8:51:28 AM | Ankita | 10/14/2024 9:18:02 | Peak Integrated by Software |
| P4258-03 | PL092333.D | 4,4"-DDD #2 | Abdul | 10/14/2024 8:51:28 AM | Ankita | 10/14/2024 9:18:02 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL101224 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4258-03 | PL092333.D | 4,4"-DDT | Abdul | 10/14/2024 8:51:28 AM | Ankita | 10/14/2024 9:18:02 | Peak Integrated by Software |
| P4258-03 | PL092333.D | alpha-Chlordane | Abdul | 10/14/2024 8:51:28 AM | Ankita | 10/14/2024 9:18:02 | Peak Integrated by Software |
| P4258-03 | PL092333.D | alpha-Chlordane #2 | Abdul | 10/14/2024 8:51:28 AM | Ankita | 10/14/2024 9:18:02 | Peak Integrated by Software |
| P4258-03 | PL092333.D | beta-BHC | Abdul | 10/14/2024 8:51:28 AM | Ankita | 10/14/2024 9:18:02 | Peak Integrated by Software |
| P4258-03 | PL092333.D | Decachlorobiphenyl | Abdul | 10/14/2024 8:51:28 AM | Ankita | 10/14/2024 9:18:02 | Peak Integrated by Software |
| P4258-03 | PL092333.D | Decachlorobiphenyl #2 | Abdul | 10/14/2024 8:51:28 AM | Ankita | 10/14/2024 9:18:02 | Peak Integrated by Software |
| P4258-03 | PL092333.D | gamma-Chlordane | Abdul | 10/14/2024 8:51:28 AM | Ankita | 10/14/2024 9:18:02 | Peak Integrated by Software |
| P4258-03 | PL092333.D | gamma-Chlordane #2 | Abdul | 10/14/2024 8:51:28 AM | Ankita | 10/14/2024 9:18:02 | Peak Integrated by Software |
| P4258-03 | PL092333.D | Tetrachloro-m-xylene | Abdul | 10/14/2024 8:51:28 AM | Ankita | 10/14/2024 9:18:02 | Peak Integrated by Software |
| P4385-04MS | PL092336.D | 4,4"-DDD | Abdul | 10/14/2024 8:51:40 AM | Ankita | 10/14/2024 9:18:07 | Peak Integrated by Software |
| P4385-04MS | PL092336.D | Endrin | Abdul | 10/14/2024 8:51:40 AM | Ankita | 10/14/2024 9:18:07 | Peak Integrated by Software |
| P4385-04MS | PL092336.D | Endrin ketone | Abdul | 10/14/2024 8:51:40 AM | Ankita | 10/14/2024 9:18:07 | Peak Integrated by Software |
| P4385-04MS | PL092336.D | Tetrachloro-m-xylene | Abdul | 10/14/2024 8:51:40 AM | Ankita | 10/14/2024 9:18:07 | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | PL101224 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4385-04MSD | PL092337.D | 4,4"-DDD | Abdul | 10/14/2024 8:51:44 AM | Ankita | 10/14/2024 9:18:08 | Peak Integrated by Software |
| P4385-04MSD | PL092337.D | Endrin | Abdul | 10/14/2024 8:51:44 AM | Ankita | 10/14/2024 9:18:08 | Peak Integrated by Software |
| P4385-04MSD | PL092337.D | Endrin ketone | Abdul | 10/14/2024 8:51:44 AM | Ankita | 10/14/2024 9:18:08 | Peak Integrated by Software |
| P4385-04MSD | PL092337.D | Tetrachloro-m-xylene | Abdul | 10/14/2024 8:51:44 AM | Ankita | 10/14/2024 9:18:08 | Peak Integrated by Software |
| I.BLK | PL092346.D | Decachlorobiphenyl | Abdul | 10/14/2024 8:52:36 AM | Ankita | 10/14/2024 9:18:22 | Peak Integrated by Software |
| PSTDCCC050 | PL092347.D | 4,4"-DDD | Abdul | 10/14/2024 8:52:18 AM | Ankita | 10/14/2024 9:18:24 | Peak Integrated by Software |
| PSTDCCC050 | PL092347.D | 4,4"-DDE #2 | Abdul | 10/14/2024 8:52:18 AM | Ankita | 10/14/2024 9:18:24 | Peak Integrated by Software |
| PSTDCCC050 | PL092347.D | Aldrin #2 | Abdul | 10/14/2024 8:52:18 AM | Ankita | 10/14/2024 9:18:24 | Peak Integrated by Software |
| PSTDCCC050 | PL092347.D | Endrin | Abdul | 10/14/2024 8:52:18 AM | Ankita | 10/14/2024 9:18:24 | Peak Integrated by Software |
| PSTDCCC050 | PL092347.D | gamma-Chlordane | Abdul | 10/14/2024 8:52:18 AM | Ankita | 10/14/2024 9:18:24 | Peak Integrated by Software |

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Fax : 908 789 8922



**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL092324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/24/2024 9:27:05 AM | | |
| Supervise By | Ankita | Supervise On | 9/24/2024 11:07:44 AM | | |
| SubDirectory | PL092324 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL091952.D | 23 Sep 2024 10:38 | AR\AJ | Ok |
| 2 | I.BLK | PL091953.D | 23 Sep 2024 10:52 | AR\AJ | Ok |
| 3 | PEM | PL091954.D | 23 Sep 2024 11:05 | AR\AJ | Ok,M |
| 4 | RESCHK | PL091955.D | 23 Sep 2024 11:19 | AR\AJ | Ok |
| 5 | PSTDICC100 | PL091956.D | 23 Sep 2024 11:32 | AR\AJ | Ok |
| 6 | PSTDICC075 | PL091957.D | 23 Sep 2024 11:45 | AR\AJ | Ok |
| 7 | PSTDICC050 | PL091958.D | 23 Sep 2024 11:59 | AR\AJ | Ok |
| 8 | PSTDICC025 | PL091959.D | 23 Sep 2024 12:12 | AR\AJ | Ok,M |
| 9 | PSTDICC005 | PL091960.D | 23 Sep 2024 12:26 | AR\AJ | Ok,M |
| 10 | PCHLORICC1000 | PL091961.D | 23 Sep 2024 12:39 | AR\AJ | Ok |
| 11 | PCHLORICC750 | PL091962.D | 23 Sep 2024 12:52 | AR\AJ | Ok |
| 12 | PCHLORICC500 | PL091963.D | 23 Sep 2024 13:06 | AR\AJ | Ok |
| 13 | PCHLORICC250 | PL091964.D | 23 Sep 2024 13:19 | AR\AJ | Ok |
| 14 | PCHLORICC050 | PL091965.D | 23 Sep 2024 13:33 | AR\AJ | Ok |
| 15 | PTOXICC1000 | PL091966.D | 23 Sep 2024 13:46 | AR\AJ | Ok |
| 16 | PTOXICC750 | PL091967.D | 23 Sep 2024 13:59 | AR\AJ | Ok |
| 17 | PTOXICC500 | PL091968.D | 23 Sep 2024 14:13 | AR\AJ | Ok |
| 18 | PTOXICC250 | PL091969.D | 23 Sep 2024 14:26 | AR\AJ | Ok |
| 19 | PTOXICC100 | PL091970.D | 23 Sep 2024 14:40 | AR\AJ | Ok,M |
| 20 | PSTDICV050 | PL091971.D | 23 Sep 2024 14:53 | AR\AJ | Ok |
| 21 | PCHLORICV500 | PL091972.D | 23 Sep 2024 15:20 | AR\AJ | Ok |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL092324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/24/2024 9:27:05 AM | | |
| Supervise By | Ankita | Supervise On | 9/24/2024 11:07:44 AM | | |
| SubDirectory | PL092324 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL091973.D | 23 Sep 2024 15:47 | AR\AJ | Ok |
| 23 | I.BLK | PL091974.D | 23 Sep 2024 16:13 | AR\AJ | Ok |
| 24 | PEM | PL091975.D | 23 Sep 2024 16:27 | AR\AJ | Ok,M |
| 25 | PSTDCCC050 | PL091976.D | 23 Sep 2024 16:40 | AR\AJ | Ok,M |
| 26 | PB163572BL | PL091977.D | 23 Sep 2024 16:54 | AR\AJ | Ok |
| 27 | PB163572BS | PL091978.D | 23 Sep 2024 17:07 | AR\AJ | Ok,M |
| 28 | P4103-02 | PL091979.D | 23 Sep 2024 17:20 | AR\AJ | Ok,M |
| 29 | P4103-02MS | PL091980.D | 23 Sep 2024 17:34 | AR\AJ | Ok,M |
| 30 | P4103-02MSD | PL091981.D | 23 Sep 2024 17:47 | AR\AJ | Ok,M |
| 31 | P4103-05 | PL091982.D | 23 Sep 2024 18:01 | AR\AJ | Ok |
| 32 | P4103-08 | PL091983.D | 23 Sep 2024 18:14 | AR\AJ | Ok,M |
| 33 | P4103-11 | PL091984.D | 23 Sep 2024 18:28 | AR\AJ | Ok,M |
| 34 | P4103-14 | PL091985.D | 23 Sep 2024 18:41 | AR\AJ | Ok,M |
| 35 | P4103-17 | PL091986.D | 23 Sep 2024 18:55 | AR\AJ | Ok,M |
| 36 | PB163511TB | PL091987.D | 23 Sep 2024 19:08 | AR\AJ | Ok,M |
| 37 | I.BLK | PL091988.D | 23 Sep 2024 19:21 | AR\AJ | Ok,M |
| 38 | PSTDCCC050 | PL091989.D | 23 Sep 2024 19:35 | AR\AJ | Ok,M |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL101224

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/14/2024 8:53:28 AM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:18:39 AM | | |
| SubDirectory | PL101224 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL092318.D | 11 Oct 2024 08:29 | AR\AJ | Ok |
| 2 | I.BLK | PL092319.D | 11 Oct 2024 08:42 | AR\AJ | Ok |
| 3 | PEM | PL092320.D | 11 Oct 2024 08:56 | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PL092321.D | 11 Oct 2024 09:09 | AR\AJ | Ok,M |
| 5 | PB164033BL | PL092322.D | 11 Oct 2024 09:23 | AR\AJ | Ok,M |
| 6 | P4368-01 | PL092323.D | 11 Oct 2024 09:36 | AR\AJ | Ok,M |
| 7 | P4368-07 | PL092324.D | 11 Oct 2024 10:12 | AR\AJ | Ok,M |
| 8 | P4368-01 | PL092325.D | 11 Oct 2024 10:29 | AR\AJ | Ok,M |
| 9 | P4368-07 | PL092326.D | 11 Oct 2024 10:49 | AR\AJ | Ok,M |
| 10 | P4368-02 | PL092327.D | 11 Oct 2024 11:10 | AR\AJ | Ok,M |
| 11 | P4368-08 | PL092328.D | 11 Oct 2024 11:23 | AR\AJ | Ok,M |
| 12 | I.BLK | PL092329.D | 11 Oct 2024 11:40 | AR\AJ | Ok |
| 13 | PSTDCCC050 | PL092330.D | 11 Oct 2024 11:54 | AR\AJ | Ok,M |
| 14 | PB164067BL | PL092331.D | 11 Oct 2024 13:24 | AR\AJ | Ok,M |
| 15 | PB164067BS | PL092332.D | 11 Oct 2024 13:37 | AR\AJ | Ok,M |
| 16 | P4258-03 | PL092333.D | 11 Oct 2024 13:51 | AR\AJ | Ok,M |
| 17 | P4385-02 | PL092334.D | 11 Oct 2024 14:04 | AR\AJ | Ok,M |
| 18 | P4385-04 | PL092335.D | 11 Oct 2024 14:17 | AR\AJ | Ok,M |
| 19 | P4385-04MS | PL092336.D | 11 Oct 2024 14:31 | AR\AJ | Ok,M |
| 20 | P4385-04MSD | PL092337.D | 11 Oct 2024 14:44 | AR\AJ | Ok,M |
| 21 | P4385-08 | PL092338.D | 11 Oct 2024 14:58 | AR\AJ | Ok,M |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL101224

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/14/2024 8:53:28 AM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:18:39 AM | | |
| SubDirectory | PL101224 | HP Acquire Method | | HP Processing Method | pl092324 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 | P4385-10 | PL092339.D | 11 Oct 2024 15:11 | AR\AJ | Ok,M |
| 23 | P4385-14 | PL092340.D | 11 Oct 2024 15:25 | AR\AJ | Ok,M |
| 24 | P4385-16 | PL092341.D | 11 Oct 2024 15:38 | AR\AJ | Ok,M |
| 25 | P4385-20 | PL092342.D | 11 Oct 2024 15:52 | AR\AJ | Ok,M |
| 26 | P4385-06 | PL092343.D | 11 Oct 2024 16:32 | AR\AJ | Ok,M |
| 27 | P4385-18 | PL092344.D | 11 Oct 2024 16:59 | AR\AJ | Ok,M |
| 28 | P4385-12 | PL092345.D | 11 Oct 2024 17:18 | AR\AJ | Ok,M |
| 29 | I.BLK | PL092346.D | 11 Oct 2024 17:31 | AR\AJ | Ok,M |
| 30 | PSTDCCC050 | PL092347.D | 11 Oct 2024 17:48 | AR\AJ | Ok,M |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL092324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/24/2024 9:27:05 AM | | |
| Supervise By | Ankita | Supervise On | 9/24/2024 11:07:44 AM | | |
| SubDirectory | PL092324 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL091952.D | 23 Sep 2024 10:38 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PL091953.D | 23 Sep 2024 10:52 | | AR\AJ | Ok |
| 3 | PEM | PEM | PL091954.D | 23 Sep 2024 11:05 | | AR\AJ | Ok,M |
| 4 | RESCHK | RESCHK | PL091955.D | 23 Sep 2024 11:19 | | AR\AJ | Ok |
| 5 | PSTDICC100 | PSTDICC100 | PL091956.D | 23 Sep 2024 11:32 | | AR\AJ | Ok |
| 6 | PSTDICC075 | PSTDICC075 | PL091957.D | 23 Sep 2024 11:45 | | AR\AJ | Ok |
| 7 | PSTDICC050 | PSTDICC050 | PL091958.D | 23 Sep 2024 11:59 | | AR\AJ | Ok |
| 8 | PSTDICC025 | PSTDICC025 | PL091959.D | 23 Sep 2024 12:12 | | AR\AJ | Ok,M |
| 9 | PSTDICC005 | PSTDICC005 | PL091960.D | 23 Sep 2024 12:26 | | AR\AJ | Ok,M |
| 10 | PCHLORICC1000 | PCHLORICC1000 | PL091961.D | 23 Sep 2024 12:39 | | AR\AJ | Ok |
| 11 | PCHLORICC750 | PCHLORICC750 | PL091962.D | 23 Sep 2024 12:52 | | AR\AJ | Ok |
| 12 | PCHLORICC500 | PCHLORICC500 | PL091963.D | 23 Sep 2024 13:06 | | AR\AJ | Ok |
| 13 | PCHLORICC250 | PCHLORICC250 | PL091964.D | 23 Sep 2024 13:19 | | AR\AJ | Ok |
| 14 | PCHLORICC050 | PCHLORICC050 | PL091965.D | 23 Sep 2024 13:33 | | AR\AJ | Ok |
| 15 | PTOXICC1000 | PTOXICC1000 | PL091966.D | 23 Sep 2024 13:46 | | AR\AJ | Ok |
| 16 | PTOXICC750 | PTOXICC750 | PL091967.D | 23 Sep 2024 13:59 | | AR\AJ | Ok |
| 17 | PTOXICC500 | PTOXICC500 | PL091968.D | 23 Sep 2024 14:13 | | AR\AJ | Ok |
| 18 | PTOXICC250 | PTOXICC250 | PL091969.D | 23 Sep 2024 14:26 | | AR\AJ | Ok |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL092324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/24/2024 9:27:05 AM | | |
| Supervise By | Ankita | Supervise On | 9/24/2024 11:07:44 AM | | |
| SubDirectory | PL092324 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL091970.D | 23 Sep 2024 14:40 | | AR\AJ | Ok,M |
| 20 | PSTDICV050 | ICVPL092324 | PL091971.D | 23 Sep 2024 14:53 | | AR\AJ | Ok |
| 21 | PCHLORICV500 | ICVPL092324CHLOR | PL091972.D | 23 Sep 2024 15:20 | | AR\AJ | Ok |
| 22 | PTOXICV500 | ICVPL092324TOX | PL091973.D | 23 Sep 2024 15:47 | | AR\AJ | Ok |
| 23 | I.BLK | I.BLK | PL091974.D | 23 Sep 2024 16:13 | | AR\AJ | Ok |
| 24 | PEM | PEM | PL091975.D | 23 Sep 2024 16:27 | | AR\AJ | Ok,M |
| 25 | PSTDCCC050 | PSTDCCC050 | PL091976.D | 23 Sep 2024 16:40 | | AR\AJ | Ok,M |
| 26 | PB163572BL | PB163572BL | PL091977.D | 23 Sep 2024 16:54 | | AR\AJ | Ok |
| 27 | PB163572BS | PB163572BS | PL091978.D | 23 Sep 2024 17:07 | | AR\AJ | Ok,M |
| 28 | P4103-02 | WC-22A | PL091979.D | 23 Sep 2024 17:20 | TCMX low 1st column | AR\AJ | Ok,M |
| 29 | P4103-02MS | WC-22AMS | PL091980.D | 23 Sep 2024 17:34 | TCMX low 1st column | AR\AJ | Ok,M |
| 30 | P4103-02MSD | WC-22AMSD | PL091981.D | 23 Sep 2024 17:47 | TCMX low 1st column | AR\AJ | Ok,M |
| 31 | P4103-05 | WC-14-5-7.5A | PL091982.D | 23 Sep 2024 18:01 | | AR\AJ | Ok |
| 32 | P4103-08 | WC-14-5-7.5B | PL091983.D | 23 Sep 2024 18:14 | | AR\AJ | Ok,M |
| 33 | P4103-11 | WC-14-7.5-10A | PL091984.D | 23 Sep 2024 18:28 | | AR\AJ | Ok,M |
| 34 | P4103-14 | WC-14-7.5-10B | PL091985.D | 23 Sep 2024 18:41 | | AR\AJ | Ok,M |
| 35 | P4103-17 | WC-23 | PL091986.D | 23 Sep 2024 18:55 | | AR\AJ | Ok,M |
| 36 | PB163511TB | PB163511TB | PL091987.D | 23 Sep 2024 19:08 | | AR\AJ | Ok,M |
| 37 | I.BLK | I.BLK | PL091988.D | 23 Sep 2024 19:21 | | AR\AJ | Ok,M |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL092324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/24/2024 9:27:05 AM | | |
| Supervise By | Ankita | Supervise On | 9/24/2024 11:07:44 AM | | |
| SubDirectory | PL092324 | HP Acquire Method | | HP Processing Method | pl092324 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 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | PSTDCCC050 | PSTDCCC050 | PL091989.D | 23 Sep 2024 19:35 | | AR\AJ | Ok,M |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL101224

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/14/2024 8:53:28 AM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:18:39 AM | | |
| SubDirectory | PL101224 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL092318.D | 11 Oct 2024 08:29 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PL092319.D | 11 Oct 2024 08:42 | | AR\AJ | Ok |
| 3 | PEM | PEM | PL092320.D | 11 Oct 2024 08:56 | | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PSTDCCC050 | PL092321.D | 11 Oct 2024 09:09 | | AR\AJ | Ok,M |
| 5 | PB164033BL | PB164033BL | PL092322.D | 11 Oct 2024 09:23 | | AR\AJ | Ok,M |
| 6 | P4368-01 | LOD-MDL-SOIL-01-QT | PL092323.D | 11 Oct 2024 09:36 | PEST LOD 1PPB SOIL | AR\AJ | Ok,M |
| 7 | P4368-07 | LOD-MDL-WATER-01-( | PL092324.D | 11 Oct 2024 10:12 | PEST LOD 1PPB WATER | AR\AJ | Ok,M |
| 8 | P4368-01 | LOD-MDL-SOIL-01-QT | PL092325.D | 11 Oct 2024 10:29 | PEST LOD 2.5PPB SOIL | AR\AJ | Ok,M |
| 9 | P4368-07 | LOD-MDL-WATER-01-( | PL092326.D | 11 Oct 2024 10:49 | PEST LOD 2.5PPB WATER | AR\AJ | Ok,M |
| 10 | P4368-02 | LOQ-SOIL-02-QT4-202 | PL092327.D | 11 Oct 2024 11:10 | PEST LOQ 5PPB SOIL | AR\AJ | Ok,M |
| 11 | P4368-08 | LOQ-WATER-02-QT4-2 | PL092328.D | 11 Oct 2024 11:23 | PEST LOQ 5PPB WATER | AR\AJ | Ok,M |
| 12 | I.BLK | I.BLK | PL092329.D | 11 Oct 2024 11:40 | | AR\AJ | Ok |
| 13 | PSTDCCC050 | PSTDCCC050 | PL092330.D | 11 Oct 2024 11:54 | | AR\AJ | Ok,M |
| 14 | PB164067BL | PB164067BL | PL092331.D | 11 Oct 2024 13:24 | | AR\AJ | Ok,M |
| 15 | PB164067BS | PB164067BS | PL092332.D | 11 Oct 2024 13:37 | | AR\AJ | Ok,M |
| 16 | P4258-03 | Chamberlain Ave | PL092333.D | 11 Oct 2024 13:51 | | AR\AJ | Ok,M |
| 17 | P4385-02 | SP-1 | PL092334.D | 11 Oct 2024 14:04 | | AR\AJ | Ok,M |
| 18 | P4385-04 | SP-2 | PL092335.D | 11 Oct 2024 14:17 | | AR\AJ | Ok,M |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL101224

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/14/2024 8:53:28 AM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:18:39 AM | | |
| SubDirectory | PL101224 | HP Acquire Method | | HP Processing Method | pl092324 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 | P4385-04MS | SP-2MS | PL092336.D | 11 Oct 2024 14:31 | 4,4-DDE, 4,4-DDT Recovery Fail | AR\AJ | Ok,M |
| 20 | P4385-04MSD | SP-2MSD | PL092337.D | 11 Oct 2024 14:44 | 4,4-DDE, 4,4-DDT Recovery Fail | AR\AJ | Ok,M |
| 21 | P4385-08 | SP-4 | PL092338.D | 11 Oct 2024 14:58 | | AR\AJ | Ok,M |
| 22 | P4385-10 | SP-5 | PL092339.D | 11 Oct 2024 15:11 | | AR\AJ | Ok,M |
| 23 | P4385-14 | SP-7 | PL092340.D | 11 Oct 2024 15:25 | | AR\AJ | Ok,M |
| 24 | P4385-16 | SP-8 | PL092341.D | 11 Oct 2024 15:38 | | AR\AJ | Ok,M |
| 25 | P4385-20 | SP-10 | PL092342.D | 11 Oct 2024 15:52 | | AR\AJ | Ok,M |
| 26 | P4385-06 | SP-3 | PL092343.D | 11 Oct 2024 16:32 | | AR\AJ | Ok,M |
| 27 | P4385-18 | SP-9 | PL092344.D | 11 Oct 2024 16:59 | | AR\AJ | Ok,M |
| 28 | P4385-12 | SP-6 | PL092345.D | 11 Oct 2024 17:18 | | AR\AJ | Ok,M |
| 29 | I.BLK | I.BLK | PL092346.D | 11 Oct 2024 17:31 | | AR\AJ | Ok,M |
| 30 | PSTDCCC050 | PSTDCCC050 | PL092347.D | 11 Oct 2024 17:48 | | AR\AJ | Ok,M |

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**EXTRACTION LOGPAGE**

PB164067

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M3541-ASE Extraction-14 | | | | |
| **Clean Up SOP #:** | Florisil | | | **Extraction Start Date :** | 10/11/2024 |
| **Matrix :** | Solid | | | **Extraction Start Time :** | 09:00 |
| **Weigh By:** | EH | **Extraction By:** | RJ | **Extraction End Date :** | 10/11/2024 |
| **Balance check:** | RJ | **Filter By:** | RJ | **Extraction End Time :** | 12:00 |
| **Balance ID:** | EX-SC-2 | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | N/A | **Hood ID:** | 3,7 | **Supervisor By :** | rajesh |

**Extraction Method:** ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 500 PPB | PP23638 |
| Surrogate | 1.0ML | 200 PPB | PP23641 |
| MDL | 0.1ML | ~~N/A~~ 100 PPB | PP23502 |
| MDL 1 | 0.25ML | 1000 PPB | PP23504 |
| MDL 2 | 0.5ML | 1000 PPB | PP23533 |

10/11

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Hexane/Acetone/1:1 | N/A | EP2539 |
| Baked Na2SO4 | N/A | EP2543 |
| Sand | N/A | E2865 |
| Hexane | N/A | E3816 |
| 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 |

**Extraction Conformance/Non-Conformance Comments:**

40 ML 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 |
|---|---|---|
| 10/11/24 | RP (Ext Lab) | AJ/ FST PCA Lab |
| 12:05 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB164067**

**Analytical Method:** M3541-ASE Extraction-14 **Concentration Date:** 10/11/2024

| Sample ID | Client Sample ID | Test | (g) mL | PH | Surr/Spike By: AddedBy | Surr/Spike By: VerifiedBy | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB164067BL | PBLK067 | Pesticide-TCL | 30.03 | N/A | ritesh | Evelyn | 10 | | | U7-1 |
| PB164067BS | PLCS067 | Pesticide-TCL | 30.01 | N/A | ritesh | Evelyn | 10 | | | 2 |
| P4258-03 | CHAMBERLAIN AVE | Pesticide-TCL | 30.06 | N/A | ritesh | Evelyn | 10 | A | | 3 |
| P4368-03 | MDL-SOIL-03-QT4-2024 0.1mL | Pesticide-TCL | 30.02 | N/A | ritesh | Evelyn | 10 | | | 4 |
| P4385-02 | SP-1 | Pesticide-TCL | 30.04 | N/A | ritesh | Evelyn | 10 | B | | 5 |
| P4385-04 | SP-2 | Pesticide-TCL | 30.07 | N/A | ritesh | Evelyn | 10 | B | | 6 |
| P4385-04MS | SP-2MS | Pesticide-TCL | 30.08 | N/A | ritesh | Evelyn | 10 | B | | U5-1 |
| P4385-04MSD | SP-2MSD | Pesticide-TCL | 30.06 | N/A | ritesh | Evelyn | 10 | B | | 2 |
| P4385-06 | SP-3 | Pesticide-TCL | 30.05 | N/A | ritesh | Evelyn | 10 | B | | 3 |
| P4385-08 | SP-4 | Pesticide-TCL | 30.03 | N/A | ritesh | Evelyn | 10 | B | | 4 |
| P4385-10 | SP-5 | Pesticide-TCL | 30.01 | N/A | ritesh | Evelyn | 10 | B | | 5 |
| P4385-12 | SP-6 | Pesticide-TCL | 30.10 | N/A | ritesh | Evelyn | 10 | B | | 6 |
| P4385-14 | SP-7 | Pesticide-TCL | 30.04 | N/A | ritesh | Evelyn | 10 | B | | U1-1 |
| P4385-16 | SP-8 | Pesticide-TCL | 30.06 | N/A | ritesh | Evelyn | 10 | B | | 2 |
| P4385-18 | SP-9 | Pesticide-TCL | 30.02 | N/A | ritesh | Evelyn | 10 | B | | 3 |
| P4385-20 | SP-10 | Pesticide-TCL | 30.05 | N/A | ritesh | Evelyn | 10 | B | | 4 |
| 0.25mL | CHLORDANE | " | 30.00 | " | " | " | " | | | 5 |
| 0.5mL | TOXAPHENE | " | 30.02 | " | " | " | 10 | | | 6 |

* **Extracts relinquished on the same date as received.**

10/11/24

164067
9:02

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P4258 **WorkList ID :** 184329 **Department :** Extraction **Date :** 10-11-2024 08:04:10

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4258-03 | Chamberlain Ave | Solid | Pesticide-TCL | Cool 4 deg C | ROMA02 | K21 | 10/01/2024 | 8081B |
| P4368-03 | MDL-SOIL-03-QT4-2024 | Solid | Pesticide-TCL | Cool 4 deg C | CHEM02 | QA Of | 10/09/2024 | 8081B |
| P4385-02 | SP-1 | Solid | Pesticide-TCL | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8081B |
| P4385-04 | SP-2 | Solid | Pesticide-TCL | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8081B |
| P4385-06 | SP-3 | Solid | Pesticide-TCL | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8081B |
| P4385-08 | SP-4 | Solid | Pesticide-TCL | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8081B |
| P4385-10 | SP-5 | Solid | Pesticide-TCL | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8081B |
| P4385-12 | SP-6 | Solid | Pesticide-TCL | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8081B |
| P4385-14 | SP-7 | Solid | Pesticide-TCL | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8081B |
| P4385-16 | SP-8 | Solid | Pesticide-TCL | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8081B |
| P4385-18 | SP-9 | Solid | Pesticide-TCL | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8081B |
| P4385-20 | SP-10 | Solid | Pesticide-TCL | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8081B |

**Date/Time** 10/11/24 8:55
**Raw Sample Received by:** RJ (Ext Lab)
**Raw Sample Relinquished by:** JD(SM)

**Date/Time** 10/11/24 9:25
**Raw Sample Received by:** JD(SM)
**Raw Sample Relinquished by:** RJ (Ext Lab)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51,K11,K21 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-03** | **Chamberlain Ave** | **SOIL** | | | **10/01/24** | | | **10/01/24** |
| | | | Herbicide | 8151A | | 10/11/24 | 10/11/24 | |
| | | | PCB | 8082A | | 10/02/24 | 10/02/24 | |
| | | | Pesticide-TCL | 8081B | | 10/11/24 | 10/11/24 | |
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP Herbicide | 8151A | | 10/03/24 | 10/04/24 | |
| | | | TCLP Pesticide | 8081B | | 10/03/24 | 10/03/24 | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** P4258 **Order ID:** P4258

**Client:** Roman E&G Corp **Project ID:** Perth Amboy

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|

**Client ID :**

**Total Concentration:** 0.000

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-04 | 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 |
|---|---|---|---|---|
| PL092225.D | 1 | 10/03/24 11:50 | 10/03/24 17:49 | PB163891 |

| 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 | 9.58 | | 43 - 140 | 48% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.3 | | 77 - 126 | 91% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | 10/03/24 |
| Client Sample ID: | PB163851TB | SDG No.: | P4258 |
| Lab Sample ID: | PB163851TB | 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 |
|---|---|---|---|---|
| PL092224.D | 1 | 10/03/24 11:50 | 10/03/24 17:36 | PB163891 |

| 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 | 20.5 | | 43 - 140 | 103% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.5 | | 77 - 126 | 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

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## Surrogate Summary

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PL091953.D | PIBLK-PL091953.D | Decachlorobiphenyl | 1 | 20 | 19.6 | 98 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.0 | 95 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 18.7 | 94 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.3 | 92 | | 77 | 126 |
| I.BLK-PL092220.D | PIBLK-PL092220.D | Decachlorobiphenyl | 1 | 20 | 20.1 | 100 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.0 | 100 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 18.8 | 94 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.0 | 100 | | 77 | 126 |
| PB163891BL | PB163891BL | Decachlorobiphenyl | 1 | 20 | 19.0 | 95 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 17.9 | 90 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 18.0 | 90 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 17.1 | 86 | | 77 | 126 |
| PB163891BS | PB163891BS | Decachlorobiphenyl | 1 | 20 | 19.3 | 96 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 18.4 | 92 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 18.5 | 93 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 17.9 | 90 | | 77 | 126 |
| PB163851TB | PB163851TB | Decachlorobiphenyl | 1 | 20 | 20.5 | 103 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.5 | 97 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 19.7 | 99 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.2 | 96 | | 77 | 126 |
| P4258-04 | Chamberlain Ave | Decachlorobiphenyl | 1 | 20 | 9.58 | 48 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 17.7 | 88 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 9.39 | 47 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.3 | 91 | | 77 | 126 |
| P4258-04MS | Chamberlain AveMS | Decachlorobiphenyl | 1 | 20 | 13.9 | 69 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 16.2 | 81 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 13.4 | 67 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 16.5 | 83 | | 77 | 126 |
| P4258-04MSD | Chamberlain AveMSD | Decachlorobiphenyl | 1 | 20 | 13.9 | 70 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 16.8 | 84 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 13.4 | 67 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 16.8 | 84 | | 77 | 126 |
| I.BLK-PL092228.D | PIBLK-PL092228.D | Decachlorobiphenyl | 1 | 20 | 21.0 | 105 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.1 | 101 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 20.3 | 102 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.9 | 100 | | 77 | 126 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8081B **DataFile :** PL092226.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:** | **Chamberlain AveMS** | | | | | | | | | | | |
| P4258-04MS | gamma-BHC (Lindane) | 5 | 0 | 6.30 | ug/L | 126 | | | | 60 | 152 | |
| | Heptachlor | 5 | 0 | 4.80 | ug/L | 96 | | | | 56 | 147 | |
| | Heptachlor epoxide | 5 | 0 | 4.90 | ug/L | 98 | | | | 77 | 143 | |
| | Endrin | 5 | 0 | 4.70 | ug/L | 94 | | | | 76 | 144 | |
| | Methoxychlor | 5 | 0 | 4.60 | ug/L | 92 | | | | 70 | 142 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8081B **DataFile :** PL092227.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:** | **Chamberlain AveMSD** | | | | | | | | | | | |
| P4258-04MSD | gamma-BHC (Lindane) | 5 | 0 | 5.80 | ug/L | 116 | | 8 | | 60 | 152 | 20 |
| | Heptachlor | 5 | 0 | 4.80 | ug/L | 96 | | 0 | | 56 | 147 | 20 |
| | Heptachlor epoxide | 5 | 0 | 4.90 | ug/L | 98 | | 0 | | 77 | 143 | 20 |
| | Endrin | 5 | 0 | 4.80 | ug/L | 96 | | 2 | | 76 | 144 | 20 |
| | Methoxychlor | 5 | 0 | 4.60 | ug/L | 92 | | 0 | | 70 | 142 | 20 |

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Fax : 908 789 8922



## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8081B **Datafile :** PL092223.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB163891BS | gamma-BHC (Lindane) | 0.5 | 0.53 | ug/L | 106 | | | | 82 | 129 | |
| | Heptachlor | 0.5 | 0.53 | ug/L | 107 | | | | 79 | 127 | |
| | Heptachlor epoxide | 0.5 | 0.55 | ug/L | 109 | | | | 81 | 124 | |
| | Endrin | 0.5 | 0.53 | ug/L | 105 | | | | 81 | 128 | |
| | Methoxychlor | 0.5 | 0.50 | ug/L | 100 | | | | 78 | 108 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163891BL

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab Sample ID: PB163891BL Lab File ID: PL092222.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/03/2024

Date Analyzed (1): 10/03/2024 Date Analyzed (2): 10/03/2024

Time Analyzed (1): 17:09 Time Analyzed (2): 17:09

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 |
|---|---|---|---|---|
| PB163891BS | PB163891BS | PL092223.D | 10/03/2024 | 10/03/2024 |
| PB163851TB | PB163851TB | PL092224.D | 10/03/2024 | 10/03/2024 |
| Chamberlain Ave | P4258-04 | PL092225.D | 10/03/2024 | 10/03/2024 |
| Chamberlain AveMS | P4258-04MS | PL092226.D | 10/03/2024 | 10/03/2024 |
| Chamberlain AveMSD | P4258-04MSD | PL092227.D | 10/03/2024 | 10/03/2024 |

COMMENTS:

# QC SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | PB163891BL | SDG No.: | P4258 |
| Lab Sample ID: | PB163891BL | 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 |
|---|---|---|---|---|
| PL092222.D | 1 | 10/03/24 11:50 | 10/03/24 17:09 | PB163891 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.082 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.0 | | 43 - 140 | 95% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 17.9 | | 77 - 126 | 90% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922





# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 09/23/24 |
| Project: | Perth Amboy | Date Received: | 09/23/24 |
| Client Sample ID: | PIBLK-PL091953.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PL091953.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 |
|---|---|---|---|---|
| PL091953.D | 1 | | 09/23/24 | PL092324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.082 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.6 | | 43 - 140 | 98% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.0 | | 77 - 126 | 95% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/03/24 |
| Project: | Perth Amboy | Date Received: | 10/03/24 |
| Client Sample ID: | PIBLK-PL092220.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PL092220.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 |
|---|---|---|---|---|
| PL092220.D | 1 | | 10/03/24 | PL100524 |

| 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 | 20.1 | | 43 - 140 | 100% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.0 | | 77 - 126 | 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: | Roman E&G Corp | Date Collected: | 10/03/24 |
| Project: | Perth Amboy | Date Received: | 10/03/24 |
| Client Sample ID: | PIBLK-PL092228.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PL092228.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 |
|---|---|---|---|---|
| PL092228.D | 1 | | 10/03/24 | PL100524 |

| 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 | | 43 - 140 | 105% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.1 | | 77 - 126 | 101% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | PB163891BS | SDG No.: | P4258 |
| Lab Sample ID: | PB163891BS | 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 |
|---|---|---|---|---|
| PL092223.D | 1 | 10/03/24 11:50 | 10/03/24 17:22 | PB163891 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.53 | | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.53 | | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.55 | | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.53 | | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.50 | | 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 | 19.3 | | 43 - 140 | 96% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.4 | | 77 - 126 | 92% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain AveMS | SDG No.: | P4258 |
| Lab Sample ID: | P4258-04MS | 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 |
|---|---|---|---|---|
| PL092226.D | 1 | 10/03/24 11:50 | 10/03/24 18:02 | PB163891 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 6.30 | P | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 4.80 | | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 4.90 | | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 4.70 | | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 4.60 | | 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 | 13.9 | | 43 - 140 | 69% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 16.5 | | 77 - 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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain AveMSD | SDG No.: | P4258 |
| Lab Sample ID: | P4258-04MSD | 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 |
|---|---|---|---|---|
| PL092227.D | 1 | 10/03/24 11:50 | 10/03/24 18:16 | PB163891 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 5.80 | | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 4.80 | | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 4.90 | | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 4.80 | | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 4.60 | | 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 | 13.9 | | 43 - 140 | 70% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 16.8 | | 77 - 126 | 84% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# CALIBRATION SUMMARY

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L **Calibration Date(s):** 09/23/2024 09/23/2024

**Calibration Times:** 11:32 12:26

GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** RT 100 = PL091956.D RT 075 = PL091957.D

RT 050 = PL091958.D RT 025 = PL091959.D RT 005 = PL091960.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 | 9.06 | 9.06 | 9.06 | 8.96 | 9.16 |
| Endrin | 6.58 | 6.58 | 6.58 | 6.58 | 6.58 | 6.58 | 6.48 | 6.68 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.23 | 4.43 |
| Heptachlor | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.82 | 5.02 |
| Heptachlor epoxide | 5.69 | 5.69 | 5.69 | 5.69 | 5.69 | 5.69 | 5.59 | 5.79 |
| 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:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L **Calibration Date(s):** 09/23/2024 09/23/2024

**Calibration Times:** 11:32 12:26

GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 100 = PL091956.D RT 075 = PL091957.D

RT 050 = PL091958.D RT 025 = PL091959.D RT 005 = PL091960.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 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.55 | 5.75 |
| gamma-BHC (Lindane) | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.62 | 3.52 | 3.72 |
| Heptachlor | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.95 | 3.85 | 4.05 |
| Heptachlor epoxide | 4.74 | 4.74 | 4.74 | 4.74 | 4.74 | 4.74 | 4.64 | 4.84 |
| 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:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L

**Calibration Date(s):** 09/23/2024 09/23/2024

**Calibration Times:** 11:32 12:26

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 100 =** PL091956.D **CF 075 =** PL091957.D

**CF 050 =** PL091958.D **CF 025 =** PL091959.D **CF 005 =** PL091960.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 1514180000 | 1546290000 | 1590790000 | 1642930000 | 1896960000 | 1638230000 | 9 |
| Endrin | 1940880000 | 1934170000 | 1971650000 | 2016300000 | 2440480000 | 2060700000 | 10 |
| gamma-BHC (Lindane) | 2990410000 | 2948600000 | 2949110000 | 2954630000 | 3651280000 | 3098800000 | 10 |
| Heptachlor | 2590450000 | 2581810000 | 2624270000 | 2731930000 | 3298830000 | 2765460000 | 11 |
| Heptachlor epoxide | 2355250000 | 2419410000 | 2410600000 | 2493740000 | 3045980000 | 2544990000 | 11 |
| Methoxychlor | 913738000 | 926950000 | 954169000 | 973623000 | 1140080000 | 981712000 | 9 |
| Tetrachloro-m-xylene | 2128490000 | 2125270000 | 2145440000 | 2197480000 | 2526630000 | 2224660000 | 8 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L **Calibration Date(s):** 09/23/2024 09/23/2024

**Calibration Times:** 11:32 12:26

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 100 =** PL091956.D **CF 075 =** PL091957.D

**CF 050 =** PL091958.D **CF 025 =** PL091959.D **CF 005 =** PL091960.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 2374340000 | 2399600000 | 2428470000 | 2478660000 | 2828640000 | 2501940000 | 7 |
| Endrin | 2724440000 | 2642180000 | 2624570000 | 2477520000 | 2642190000 | 2622180000 | 3 |
| gamma-BHC (Lindane) | 3775710000 | 3629090000 | 3577820000 | 3312530000 | 3359720000 | 3530980000 | 5 |
| Heptachlor | 3553790000 | 3434350000 | 3431490000 | 3238430000 | 3595010000 | 3450610000 | 4 |
| Heptachlor epoxide | 3090900000 | 2996730000 | 3012410000 | 2873000000 | 3141390000 | 3022890000 | 3 |
| Methoxychlor | 1228030000 | 1222750000 | 1234080000 | 1223180000 | 1343690000 | 1250350000 | 4 |
| Tetrachloro-m-xylene | 2544530000 | 2497760000 | 2476670000 | 2384990000 | 2636430000 | 2508080000 | 4 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L **Date(s) Analyzed:** 09/23/2024 09/23/2024

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Chlordane | 500 | 1 | 4.71 | 4.61 | 4.81 | 98915300 |
| | | 2 | 5.24 | 5.14 | 5.34 | 102853000 |
| | | 3 | 5.95 | 5.85 | 6.05 | 355337000 |
| | | 4 | 6.03 | 5.93 | 6.13 | 432063000 |
| | | 5 | 6.88 | 6.78 | 6.98 | 84140800 |
| Toxaphene | 500 | 1 | 6.24 | 6.14 | 6.34 | 22665300 |
| | | 2 | 6.45 | 6.35 | 6.55 | 13922000 |
| | | 3 | 7.06 | 6.96 | 7.16 | 70960500 |
| | | 4 | 7.15 | 7.05 | 7.25 | 53851200 |
| | | 5 | 7.94 | 7.84 | 8.04 | 39727000 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_L **Date(s) Analyzed:** 09/23/2024 09/23/2024

**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 | 98097600 |
| | | 2 | 4.36 | 4.26 | 4.46 | 109311000 |
| | | 3 | 4.99 | 4.89 | 5.09 | 329535000 |
| | | 4 | 5.05 | 4.95 | 5.15 | 315560000 |
| | | 5 | 5.95 | 5.85 | 6.05 | 108292000 |
| Toxaphene | 500 | 1 | 5.01 | 4.91 | 5.11 | 18093600 |
| | | 2 | 5.34 | 5.24 | 5.44 | 17271700 |
| | | 3 | 6.61 | 6.51 | 6.71 | 63995900 |
| | | 4 | 6.74 | 6.64 | 6.84 | 88666300 |
| | | 5 | 7.05 | 6.95 | 7.15 | 60349700 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/03/2024 **Initial Calibration Date(s):** 09/23/2024 09/23/2024

**Continuing Calib Time:** 15:02 **Initial Calibration Time(s):** 11:32 12:26

**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 | 5.69 | 5.59 | 5.79 | 0.00 |
| Endrin | 6.58 | 6.58 | 6.48 | 6.68 | 0.00 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/03/2024 **Initial Calibration Date(s):** 09/23/2024 09/23/2024

**Continuing Calib Time:** 15:02 **Initial Calibration Time(s):** 11:32 12:26

**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 | 3.62 | 3.52 | 3.72 | 0.01 |
| Heptachlor | 3.95 | 3.96 | 3.86 | 4.06 | 0.01 |
| Heptachlor epoxide | 4.74 | 4.74 | 4.64 | 4.84 | 0.00 |
| Endrin | 5.65 | 5.65 | 5.55 | 5.75 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/03/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092221.D **Time Analyzed:** 15:02

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.059 | 8.960 | 9.160 | 49.630 | 50.000 | -0.7 |
| Endrin | 6.578 | 6.479 | 6.679 | 43.850 | 50.000 | -12.3 |
| gamma-BHC (Lindane) | 4.331 | 4.232 | 4.432 | 49.210 | 50.000 | -1.6 |
| Heptachlor | 4.919 | 4.820 | 5.020 | 48.340 | 50.000 | -3.3 |
| Heptachlor epoxide | 5.688 | 5.589 | 5.789 | 48.700 | 50.000 | -2.6 |
| Methoxychlor | 7.502 | 7.404 | 7.604 | 46.560 | 50.000 | -6.9 |
| Tetrachloro-m-xylene | 3.542 | 3.444 | 3.644 | 51.160 | 50.000 | 2.3 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/03/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092221.D **Time Analyzed:** 15:02

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.921 | 7.823 | 8.023 | 47.460 | 50.000 | -5.1 |
| Endrin | 5.646 | 5.548 | 5.748 | 47.570 | 50.000 | -4.9 |
| gamma-BHC (Lindane) | 3.614 | 3.516 | 3.716 | 53.910 | 50.000 | 7.8 |
| Heptachlor | 3.953 | 3.855 | 4.055 | 51.650 | 50.000 | 3.3 |
| Heptachlor epoxide | 4.736 | 4.638 | 4.838 | 52.500 | 50.000 | 5.0 |
| Methoxychlor | 6.619 | 6.521 | 6.721 | 46.900 | 50.000 | -6.2 |
| Tetrachloro-m-xylene | 2.781 | 2.682 | 2.882 | 53.960 | 50.000 | 7.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/03/2024 **Initial Calibration Date(s):** 09/23/2024 09/23/2024

**Continuing Calib Time:** 18:43 **Initial Calibration Time(s):** 11:32 12:26

**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 | 5.69 | 5.59 | 5.79 | 0.00 |
| Endrin | 6.58 | 6.58 | 6.48 | 6.68 | 0.00 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/03/2024 **Initial Calibration Date(s):** 09/23/2024 09/23/2024

**Continuing Calib Time:** 18:43 **Initial Calibration Time(s):** 11:32 12:26

**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 | 3.62 | 3.52 | 3.72 | 0.01 |
| Heptachlor | 3.95 | 3.96 | 3.86 | 4.06 | 0.01 |
| Heptachlor epoxide | 4.74 | 4.74 | 4.64 | 4.84 | 0.00 |
| Endrin | 5.65 | 5.65 | 5.55 | 5.75 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/03/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092229.D **Time Analyzed:** 18:43

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.058 | 8.960 | 9.160 | 50.740 | 50.000 | 1.5 |
| Endrin | 6.577 | 6.479 | 6.679 | 44.550 | 50.000 | -10.9 |
| gamma-BHC (Lindane) | 4.331 | 4.232 | 4.432 | 49.990 | 50.000 | 0.0 |
| Heptachlor | 4.920 | 4.820 | 5.020 | 48.750 | 50.000 | -2.5 |
| Heptachlor epoxide | 5.688 | 5.589 | 5.789 | 51.430 | 50.000 | 2.9 |
| Methoxychlor | 7.502 | 7.404 | 7.604 | 46.940 | 50.000 | -6.1 |
| Tetrachloro-m-xylene | 3.542 | 3.444 | 3.644 | 51.560 | 50.000 | 3.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/03/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092229.D **Time Analyzed:** 18:43

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.920 | 7.823 | 8.023 | 50.700 | 50.000 | 1.4 |
| Endrin | 5.646 | 5.548 | 5.748 | 48.820 | 50.000 | -2.4 |
| gamma-BHC (Lindane) | 3.614 | 3.516 | 3.716 | 54.820 | 50.000 | 9.6 |
| Heptachlor | 3.953 | 3.855 | 4.055 | 51.780 | 50.000 | 3.6 |
| Heptachlor epoxide | 4.736 | 4.638 | 4.838 | 53.650 | 50.000 | 7.3 |
| Methoxychlor | 6.618 | 6.521 | 6.721 | 48.280 | 50.000 | -3.4 |
| Tetrachloro-m-xylene | 2.781 | 2.682 | 2.882 | 53.800 | 50.000 | 7.6 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No. (PEM):** PEM - PL091954.D **Date Analyzed:** 09/23/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:05

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.061 | 8.960 | 9.160 | 19.830 | 20.000 | -0.9 |
| Tetrachloro-m-xylene | 3.544 | 3.490 | 3.590 | 20.070 | 20.000 | 0.4 |
| alpha-BHC | 3.999 | 3.950 | 4.050 | 10.180 | 10.000 | 1.8 |
| beta-BHC | 4.529 | 4.480 | 4.580 | 10.750 | 10.000 | 7.5 |
| gamma-BHC (Lindane) | 4.332 | 4.280 | 4.380 | 10.100 | 10.000 | 1.0 |
| Endrin | 6.579 | 6.510 | 6.650 | 43.290 | 50.000 | -13.4 |
| 4,4'-DDT | 7.028 | 6.960 | 7.100 | 90.240 | 100.000 | -9.8 |
| Methoxychlor | 7.504 | 7.430 | 7.570 | 212.390 | 250.000 | -15.0 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No. (PEM):** PEM - PL091954.D **Date Analyzed:** 09/23/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:05

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.923 | 7.820 | 8.020 | 19.350 | 20.000 | -3.3 |
| Tetrachloro-m-xylene | 2.782 | 2.730 | 2.830 | 19.290 | 20.000 | -3.6 |
| alpha-BHC | 3.285 | 3.230 | 3.340 | 9.220 | 10.000 | -7.8 |
| beta-BHC | 3.915 | 3.860 | 3.970 | 10.540 | 10.000 | 5.4 |
| gamma-BHC (Lindane) | 3.616 | 3.570 | 3.670 | 8.880 | 10.000 | -11.2 |
| Endrin | 5.648 | 5.580 | 5.720 | 46.450 | 50.000 | -7.1 |
| 4,4'-DDT | 6.047 | 5.980 | 6.120 | 104.950 | 100.000 | 5.0 |
| Methoxychlor | 6.621 | 6.550 | 6.690 | 232.550 | 250.000 | -7.0 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No. (PEM):** PEM - PL092208.D **Date Analyzed:** 10/03/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 10:37

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.060 | 8.960 | 9.160 | 25.850 | 20.000 | 29.3 |
| Tetrachloro-m-xylene | 3.543 | 3.490 | 3.590 | 26.580 | 20.000 | 32.9 |
| alpha-BHC | 3.998 | 3.950 | 4.050 | 13.590 | 10.000 | 35.9 |
| beta-BHC | 4.528 | 4.480 | 4.580 | 13.970 | 10.000 | 39.7 |
| gamma-BHC (Lindane) | 4.331 | 4.280 | 4.380 | 12.920 | 10.000 | 29.2 |
| Endrin | 6.578 | 6.510 | 6.650 | 51.850 | 50.000 | 3.7 |
| 4,4'-DDT | 7.028 | 6.960 | 7.100 | 113.150 | 100.000 | 13.2 |
| Methoxychlor | 7.504 | 7.430 | 7.570 | 272.260 | 250.000 | 8.9 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

**Client Sample No. (PEM):** PEM - PL092208.D **Date Analyzed:** 10/03/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 10:37

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.921 | 7.820 | 8.020 | 24.580 | 20.000 | 22.9 |
| Tetrachloro-m-xylene | 2.781 | 2.730 | 2.830 | 26.260 | 20.000 | 31.3 |
| alpha-BHC | 3.284 | 3.230 | 3.330 | 12.610 | 10.000 | 26.1 |
| beta-BHC | 3.913 | 3.860 | 3.960 | 14.020 | 10.000 | 40.2 |
| gamma-BHC (Lindane) | 3.614 | 3.560 | 3.660 | 12.210 | 10.000 | 22.1 |
| Endrin | 5.646 | 5.580 | 5.720 | 59.890 | 50.000 | 19.8 |
| 4,4'-DDT | 6.044 | 5.970 | 6.110 | 135.410 | 100.000 | 35.4 |
| Methoxychlor | 6.619 | 6.550 | 6.690 | 292.740 | 250.000 | 17.1 |

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# Analytical Sequence

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **Instrument ID:** ECD_L

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 09/23/2024 09/23/2024

**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 | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 09/23/2024 | 10:52 | PL091953.D | 9.06 | 3.54 |
| PEM | PEM | 09/23/2024 | 11:05 | PL091954.D | 9.06 | 3.54 |
| RESCHK | RESCHK | 09/23/2024 | 11:19 | PL091955.D | 9.06 | 3.54 |
| PSTDICC100 | PSTDICC100 | 09/23/2024 | 11:32 | PL091956.D | 9.06 | 3.54 |
| PSTDICC075 | PSTDICC075 | 09/23/2024 | 11:45 | PL091957.D | 9.06 | 3.54 |
| PSTDICC050 | PSTDICC050 | 09/23/2024 | 11:59 | PL091958.D | 9.06 | 3.54 |
| PSTDICC025 | PSTDICC025 | 09/23/2024 | 12:12 | PL091959.D | 9.06 | 3.54 |
| PSTDICC005 | PSTDICC005 | 09/23/2024 | 12:26 | PL091960.D | 9.06 | 3.54 |
| PCHLORICC500 | PCHLORICC500 | 09/23/2024 | 13:06 | PL091963.D | 9.06 | 3.54 |
| PTOXICC500 | PTOXICC500 | 09/23/2024 | 14:13 | PL091968.D | 9.06 | 3.54 |
| PEM | PEM | 10/03/2024 | 10:37 | PL092208.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 10/03/2024 | 14:49 | PL092220.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 10/03/2024 | 15:02 | PL092221.D | 9.06 | 3.54 |
| PB163891BL | PB163891BL | 10/03/2024 | 17:09 | PL092222.D | 9.07 | 3.55 |
| PB163891BS | PB163891BS | 10/03/2024 | 17:22 | PL092223.D | 9.06 | 3.54 |
| PB163851TB | PB163851TB | 10/03/2024 | 17:36 | PL092224.D | 9.06 | 3.54 |
| Chamberlain Ave | P4258-04 | 10/03/2024 | 17:49 | PL092225.D | 9.06 | 3.54 |
| Chamberlain AveMS | P4258-04MS | 10/03/2024 | 18:02 | PL092226.D | 9.06 | 3.54 |
| Chamberlain AveMSD | P4258-04MSD | 10/03/2024 | 18:16 | PL092227.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 10/03/2024 | 18:29 | PL092228.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 10/03/2024 | 18:43 | PL092229.D | 9.06 | 3.54 |

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# Analytical Sequence

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **Instrument ID:** ECD_L

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 09/23/2024 09/23/2024

**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 | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 09/23/2024 | 10:52 | PL091953.D | 7.92 | 2.78 |
| PEM | PEM | 09/23/2024 | 11:05 | PL091954.D | 7.92 | 2.78 |
| RESCHK | RESCHK | 09/23/2024 | 11:19 | PL091955.D | 7.92 | 2.78 |
| PSTDICC100 | PSTDICC100 | 09/23/2024 | 11:32 | PL091956.D | 7.92 | 2.78 |
| PSTDICC075 | PSTDICC075 | 09/23/2024 | 11:45 | PL091957.D | 7.92 | 2.78 |
| PSTDICC050 | PSTDICC050 | 09/23/2024 | 11:59 | PL091958.D | 7.92 | 2.78 |
| PSTDICC025 | PSTDICC025 | 09/23/2024 | 12:12 | PL091959.D | 7.92 | 2.78 |
| PSTDICC005 | PSTDICC005 | 09/23/2024 | 12:26 | PL091960.D | 7.92 | 2.78 |
| PCHLORICC500 | PCHLORICC500 | 09/23/2024 | 13:06 | PL091963.D | 7.92 | 2.78 |
| PTOXICC500 | PTOXICC500 | 09/23/2024 | 14:13 | PL091968.D | 7.92 | 2.78 |
| PEM | PEM | 10/03/2024 | 10:37 | PL092208.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 10/03/2024 | 14:49 | PL092220.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 10/03/2024 | 15:02 | PL092221.D | 7.92 | 2.78 |
| PB163891BL | PB163891BL | 10/03/2024 | 17:09 | PL092222.D | 7.92 | 2.78 |
| PB163891BS | PB163891BS | 10/03/2024 | 17:22 | PL092223.D | 7.92 | 2.78 |
| PB163851TB | PB163851TB | 10/03/2024 | 17:36 | PL092224.D | 7.92 | 2.78 |
| Chamberlain Ave | P4258-04 | 10/03/2024 | 17:49 | PL092225.D | 7.92 | 2.78 |
| Chamberlain AveMS | P4258-04MS | 10/03/2024 | 18:02 | PL092226.D | 7.92 | 2.78 |
| Chamberlain AveMSD | P4258-04MSD | 10/03/2024 | 18:16 | PL092227.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 10/03/2024 | 18:29 | PL092228.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 10/03/2024 | 18:43 | PL092229.D | 7.92 | 2.78 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**
**Chamberlain AveMS**

**Contract:** ROMA02
**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258
**Lab Sample ID:** P4258-04MS **Date(s) Analyzed:** 10/03/2024 10/03/2024
**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 | 4.50 | 2.2 |
| | 2 | 6.62 | 6.57 | 6.67 | 4.60 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 6.30 | 31.2 |
| | 2 | 3.61 | 3.56 | 3.66 | 4.60 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 4.50 | 6.5 |
| | 2 | 3.95 | 3.90 | 4.00 | 4.80 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 4.40 | 10.8 |
| | 2 | 4.74 | 4.69 | 4.79 | 4.90 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 4.30 | 8.9 |
| | 2 | 5.65 | 5.60 | 5.70 | 4.70 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**
**Chamberlain AveMSD**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** P4258-04MSD **Date(s) Analyzed:** 10/03/2024 10/03/2024

**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 | 4.50 | 2.2 |
| | 2 | 6.62 | 6.57 | 6.67 | 4.60 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 5.80 | 23.1 |
| | 2 | 3.61 | 3.56 | 3.66 | 4.60 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 4.50 | 6.5 |
| | 2 | 3.95 | 3.90 | 4.00 | 4.80 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 4.40 | 10.8 |
| | 2 | 4.74 | 4.69 | 4.79 | 4.90 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 4.30 | 11 |
| | 2 | 5.65 | 5.60 | 5.70 | 4.80 | |

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



## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB163891BS**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** PB163891BS **Date(s) Analyzed:** 10/03/2024 10/03/2024

**Instrument ID (1):** ECD_L **Instrument ID (2):** ECD_L

**GC Column: (1):** ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 0.50 | 0.7 |
| | 2 | 6.62 | 6.57 | 6.67 | 0.49 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 0.48 | 9 |
| | 2 | 3.62 | 3.57 | 3.67 | 0.53 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 0.50 | 6.8 |
| | 2 | 3.95 | 3.90 | 4.00 | 0.53 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 0.50 | 8.9 |
| | 2 | 4.74 | 4.69 | 4.79 | 0.55 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 0.47 | 12.1 |
| | 2 | 5.65 | 5.60 | 5.70 | 0.53 | |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL100524\
Data File : PL092225.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 17:49
Operator : AR\AJ
Sample : P4258-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:54:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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... | 3.543 | 2.781 | 39305469 | 45781255 | 17.668 | 18.254 |
| 28) | SA Decachlor... | 9.057 | 7.921 | 15692554 | 23482824 | 9.579m | 9.386 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

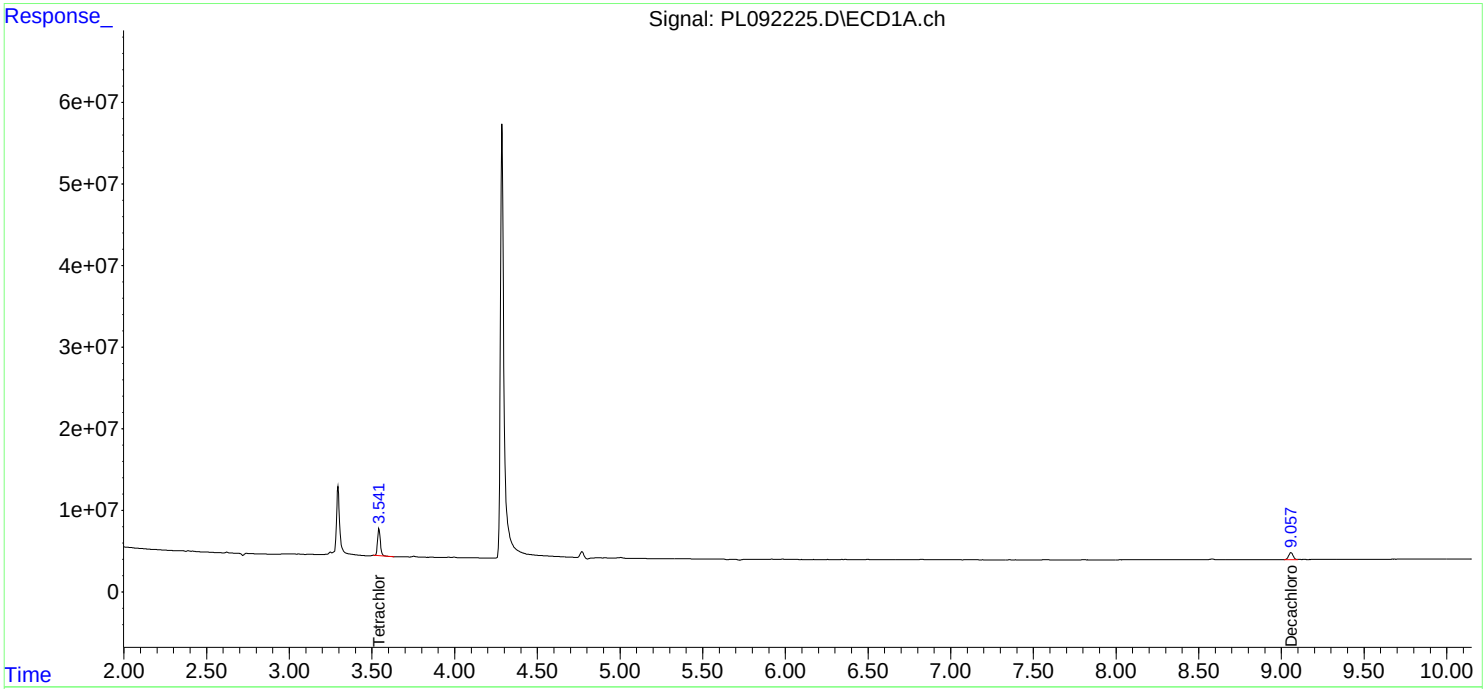
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL100524\
Data File : PL092225.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 17:49
Operator : AR\AJ
Sample : P4258-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

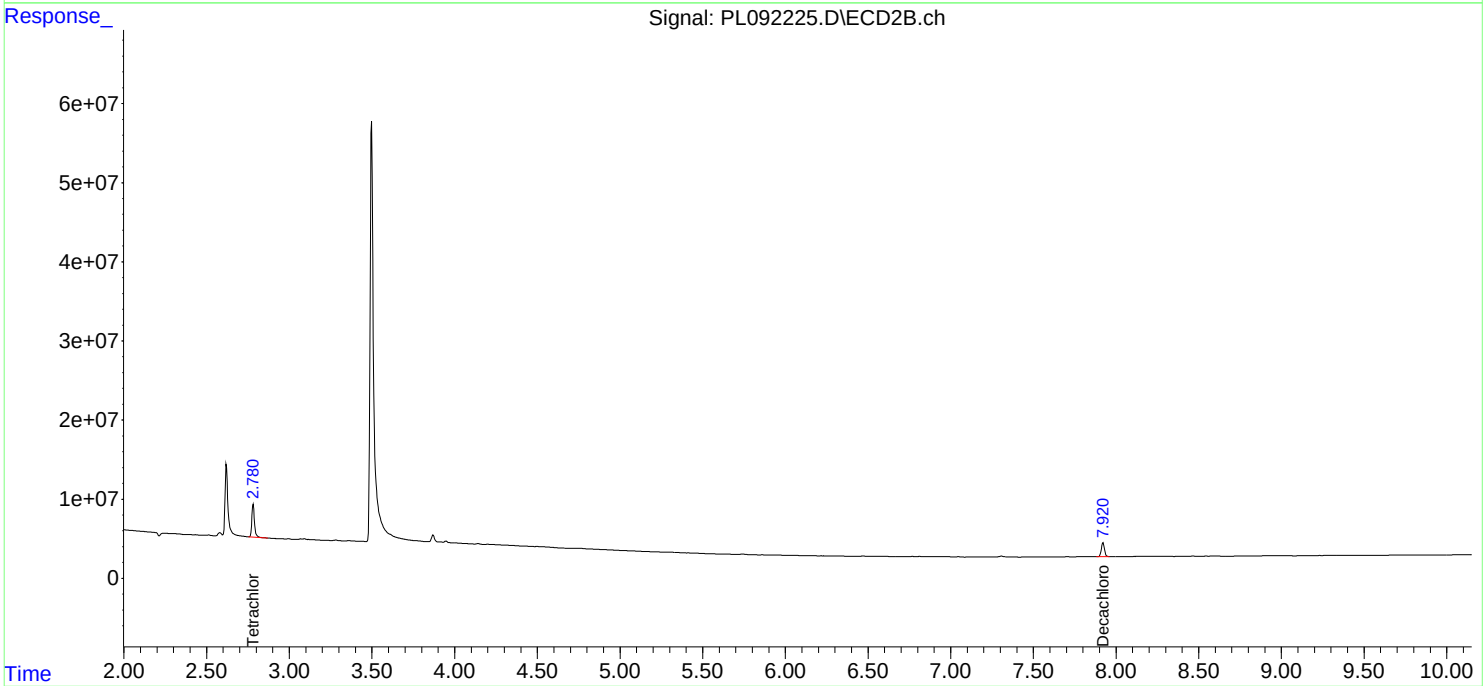
**Instrument :**
ECD_L
**ClientSampleId :**
Chamberlain Ave

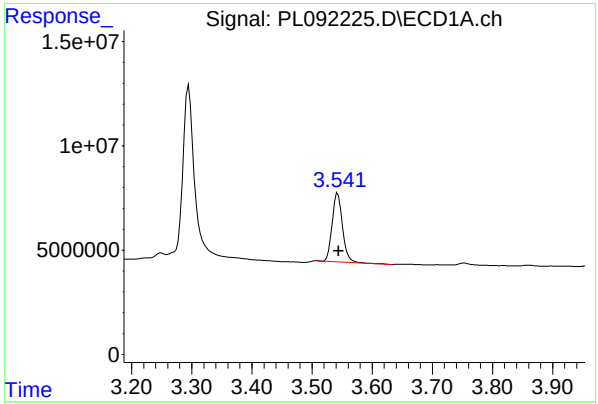
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:54:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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





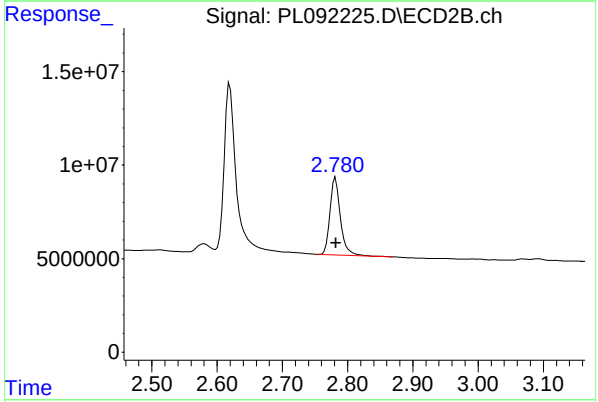

#1 Tetrachloro-m-xylene

R.T.: 3.543 min
Delta R.T.: -0.001 mi
Response: 39305469
Conc: 17.67 ng/m

**Instrument :**
ECD_L
**ClientSampleId :**
Chamberlain Ave

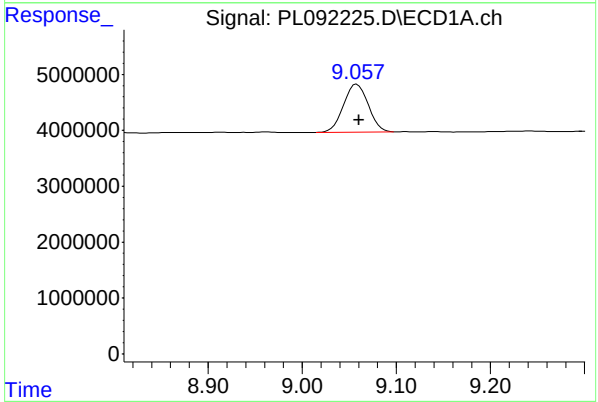
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024



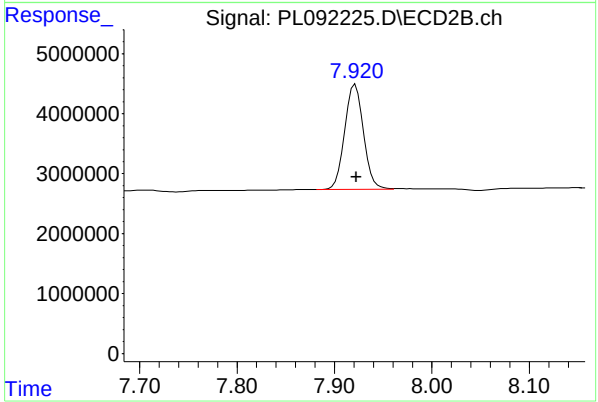

#1 Tetrachloro-m-xylene

R.T.: 2.781 min
Delta R.T.: 0.000 min
Response: 45781255
Conc: 18.25 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.057 min
Delta R.T.: -0.004 min
Response: 15692554
Conc: 9.58 ng/ml m




#28 Decachlorobiphenyl

R.T.: 7.921 min
Delta R.T.: -0.001 min
Response: 23482824
Conc: 9.39 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL100524\
Data File : PL092224.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 17:36
Operator : AR\AJ
Sample : PB163851TB
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PB163851TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:53:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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... | 3.543 | 2.781 | 43337089 | 48072475 | 19.480 | 19.167 |
| 28) | SA Decachlor... | 9.058 | 7.921 | 33634589 | 49276748 | 20.531 | 19.695 |
| | Target Compounds | | | | | | |

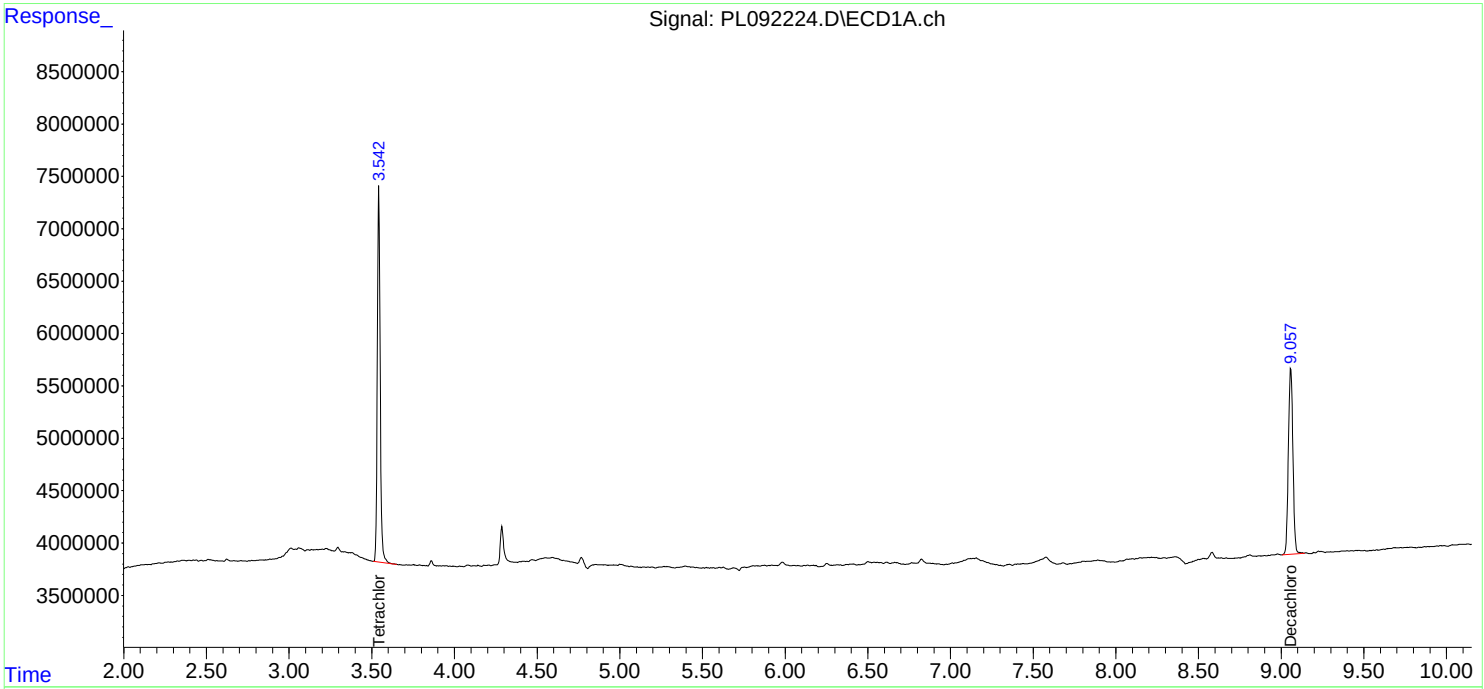
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

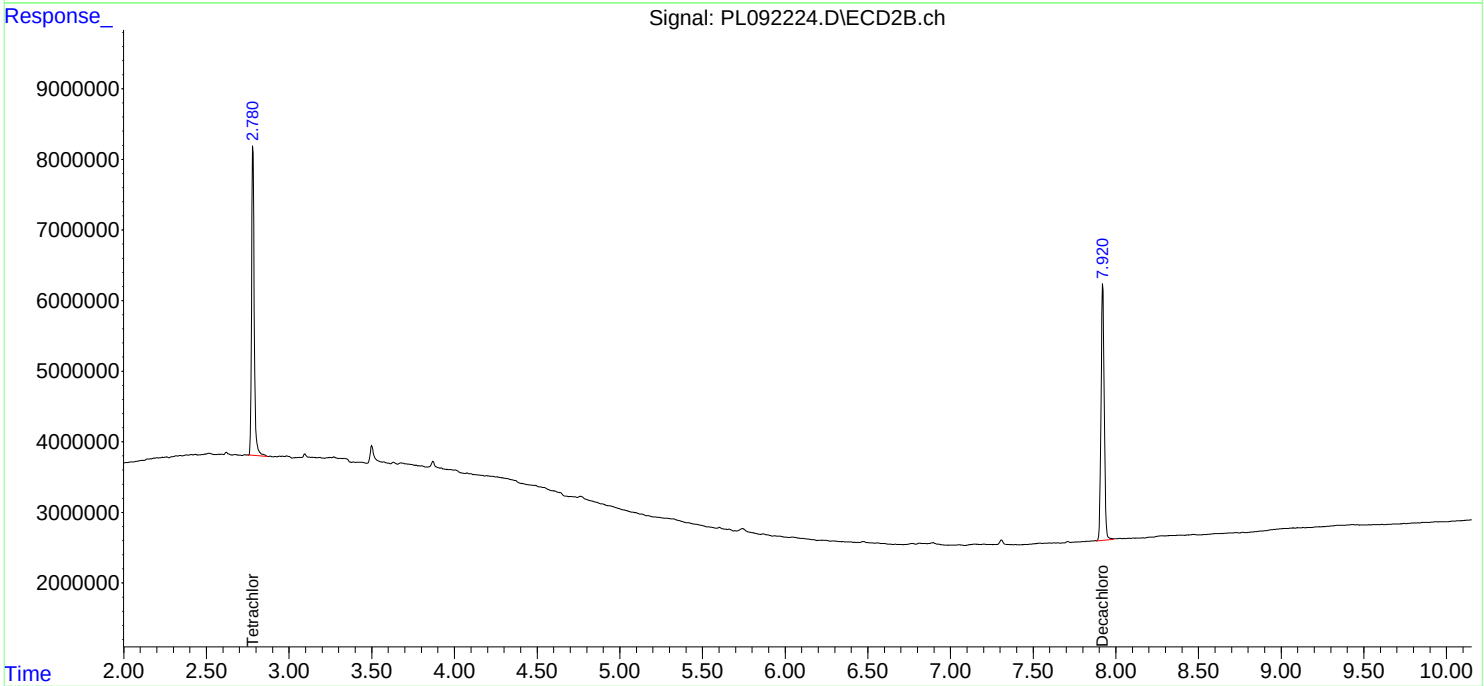
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL100524\
Data File : PL092224.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 17:36
Operator : AR\AJ
Sample : PB163851TB
Misc :
ALS Vial : 17 Sample Multiplier: 1

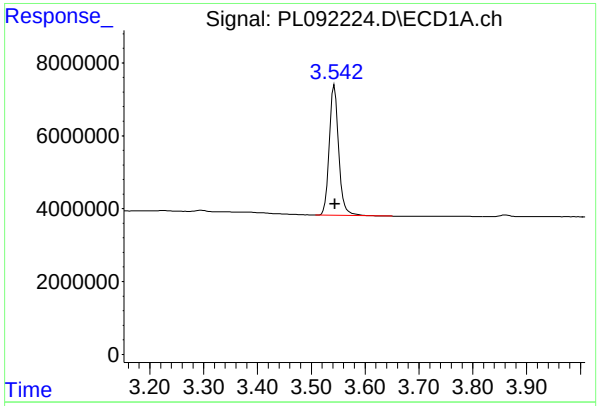
**Instrument :**
ECD_L
**ClientSampleId :**
PB163851TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:53:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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



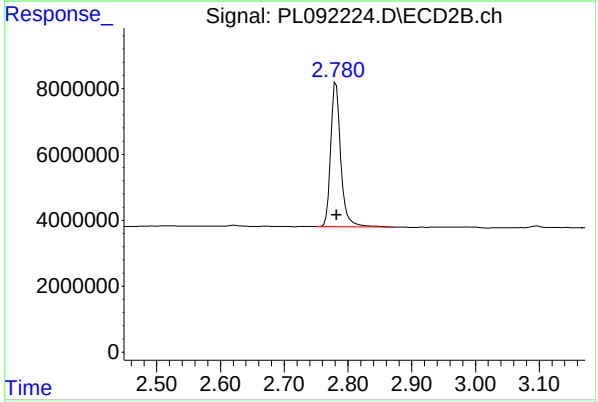






#1 Tetrachloro-m-xylene

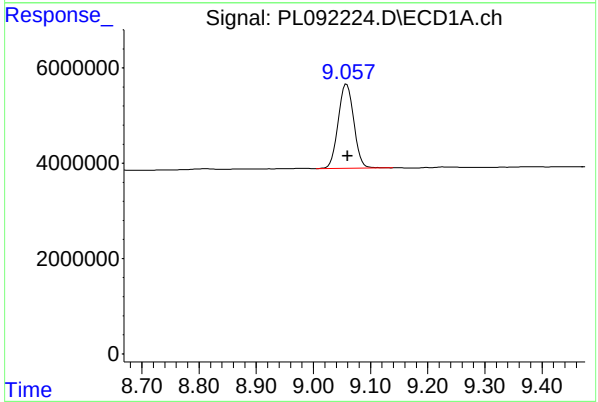
R.T.: 3.543 min
Delta R.T.: -0.001 min
Response: 43337089
Conc: 19.48 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PB163851TB



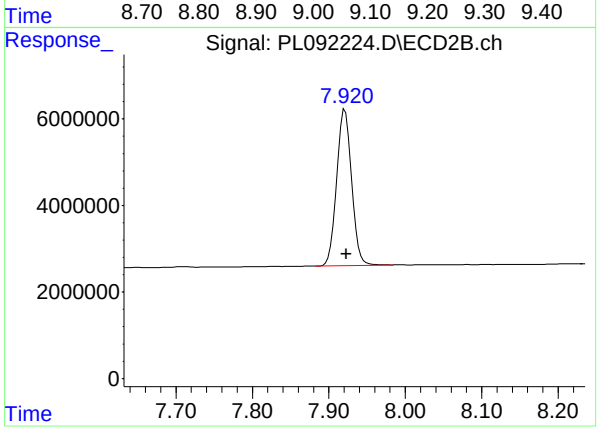

#1 Tetrachloro-m-xylene

R.T.: 2.781 min
Delta R.T.: 0.000 min
Response: 48072475
Conc: 19.17 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.058 min
Delta R.T.: -0.002 min
Response: 33634589
Conc: 20.53 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.921 min
Delta R.T.: -0.002 min
Response: 49276748
Conc: 19.70 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL100524\
Data File : PL092222.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 17:09
Operator : AR\AJ
Sample : PB163891BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PB163891BL

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:51:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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... | 3.551 | 2.782 | 39811259 | 42972537 | 17.895 | 17.134 |
| 28) | SA Decachlor... | 9.067 | 7.924 | 31190593 | 44979543 | 19.039m | 17.978 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

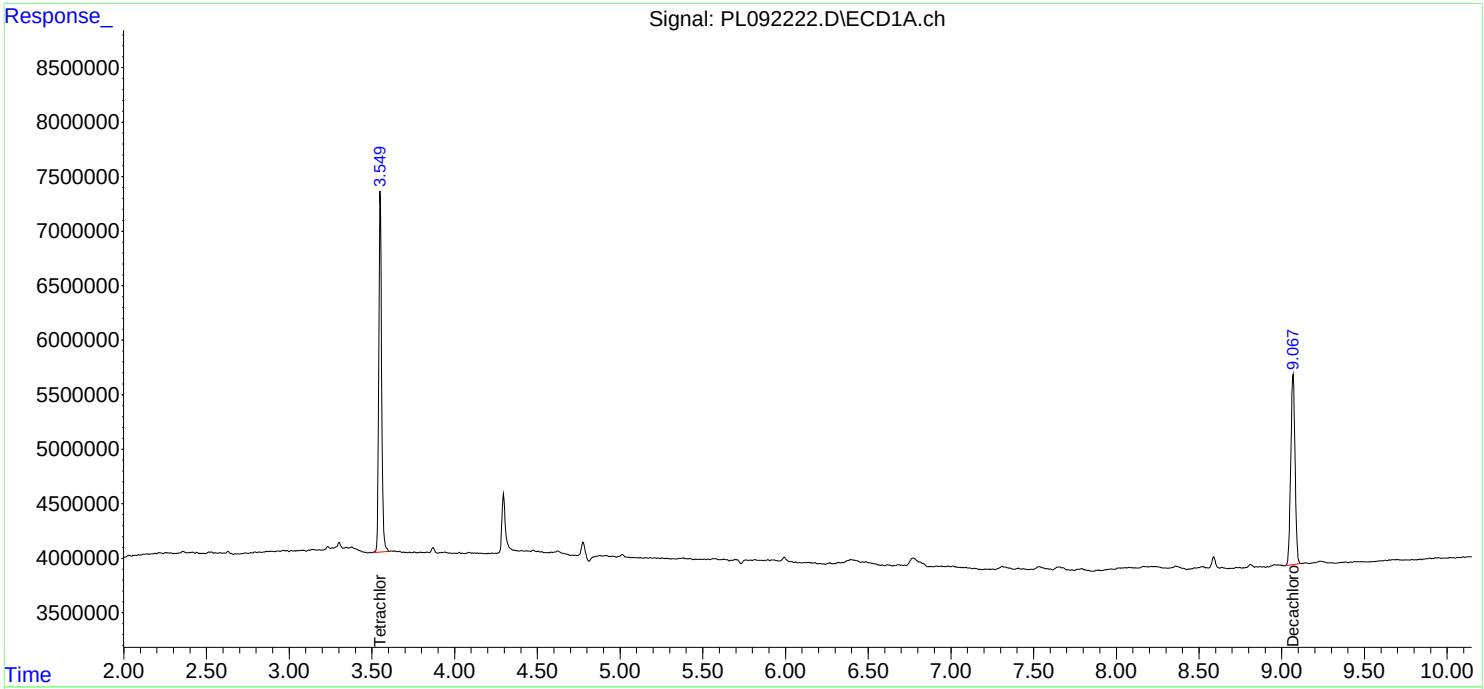
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL100524\
Data File : PL092222.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 17:09
Operator : AR\AJ
Sample : PB163891BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

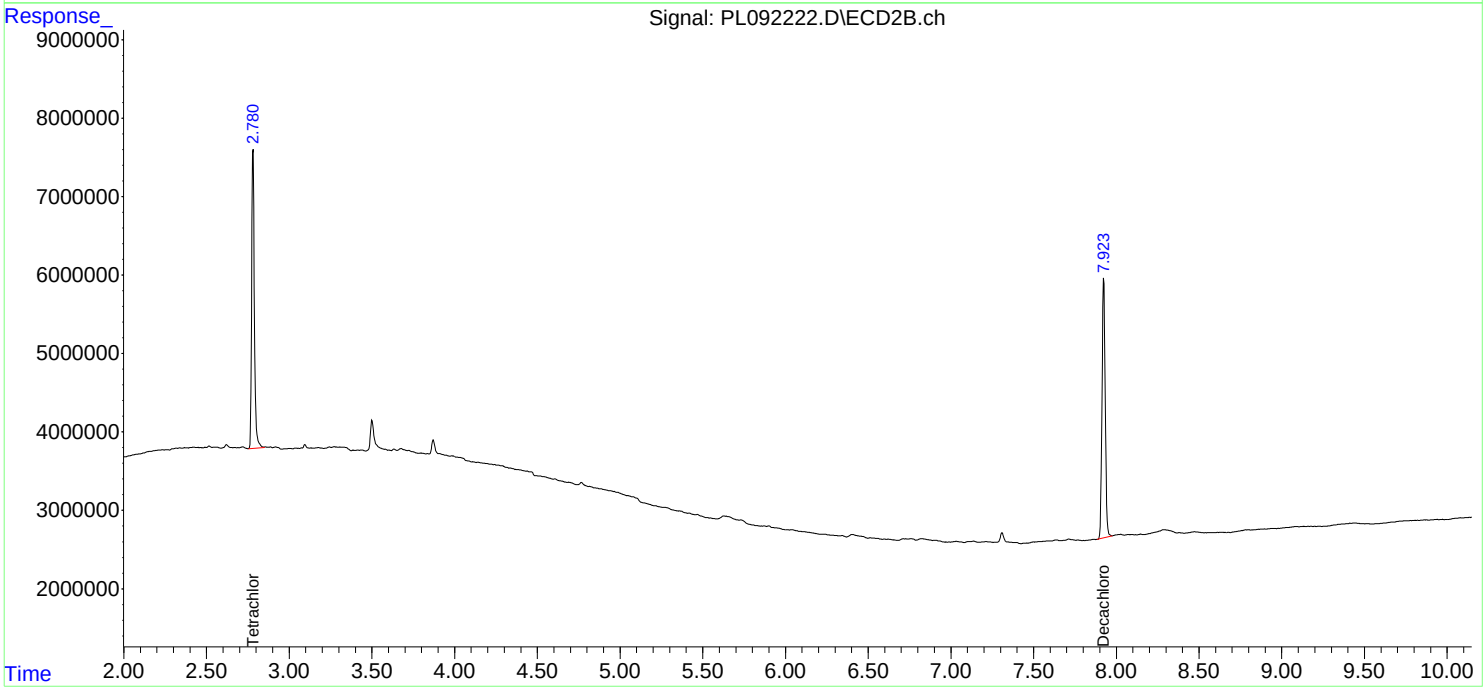
**Instrument :**
ECD_L
**ClientSampleId :**
PB163891BL

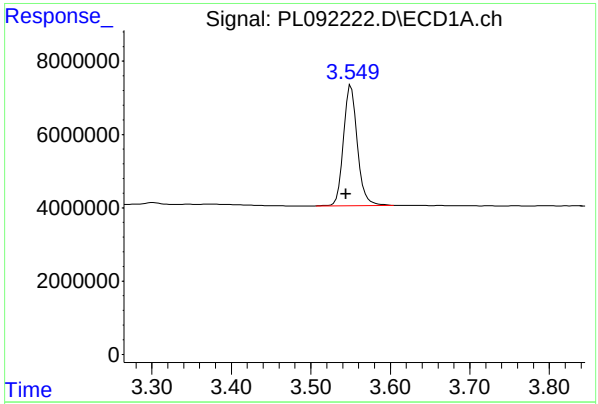
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:51:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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





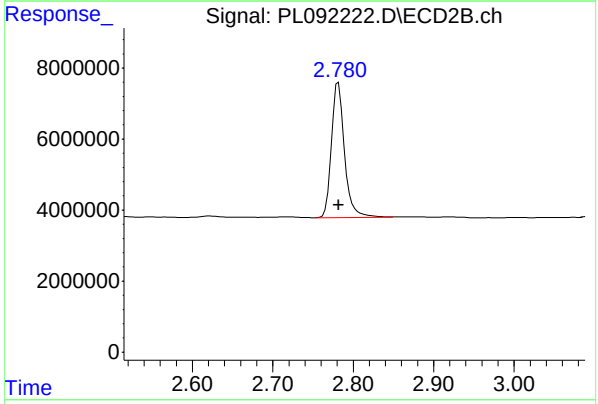

#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.007 mi
Response: 39811259
Conc: 17.90 ng/m

**Instrument :**
ECD_L
**ClientSampleId :**
PB163891BL

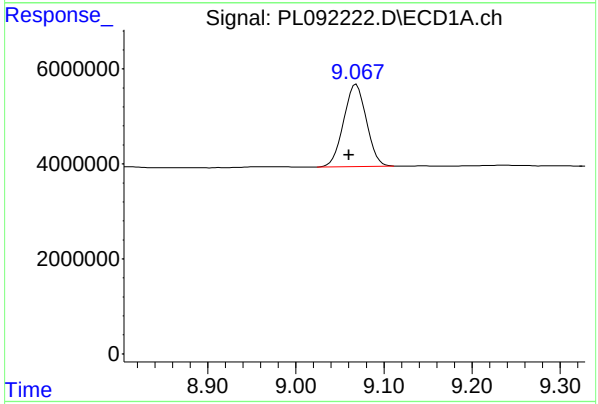
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024



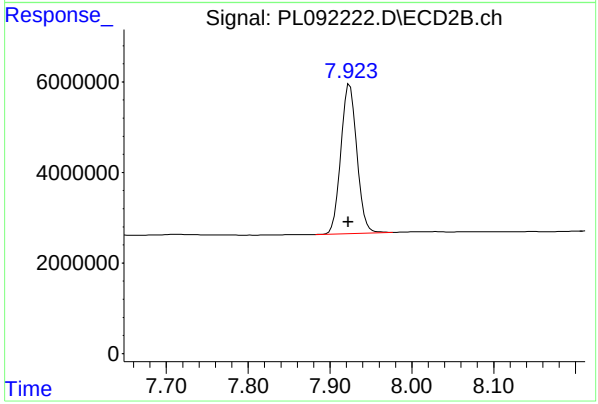

#1 Tetrachloro-m-xylene

R.T.: 2.782 min
Delta R.T.: 0.000 min
Response: 42972537
Conc: 17.13 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.067 min
Delta R.T.: 0.007 min
Response: 31190593
Conc: 19.04 ng/ml m




#28 Decachlorobiphenyl

R.T.: 7.924 min
Delta R.T.: 0.002 min
Response: 44979543
Conc: 17.98 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL100524\
Data File : PL092223.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 17:22
Operator : AR\AJ
Sample : PB163891BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PB163891BS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:52:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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... | 3.544 | 2.782 | 40872556 | 44889540 | 18.372 | 17.898 |
| 28) SA | Decachlor... | 9.060 | 7.921 | 31565412 | 46330137 | 19.268 | 18.518 |
| | Target Compounds | | | | | | |
| 2) A | alpha-BHC | 4.000 | 3.285 | 156.3E6 | 198.2E6 | 50.467 | 54.413 |
| 3) MA | gamma-BHC... | 4.333 | 3.615 | 149.9E6 | 186.9E6 | 48.363 | 52.927 |
| 4) MA | Heptachlor | 4.922 | 3.954 | 137.8E6 | 184.1E6 | 49.843 | 53.344 |
| 5) MB | Aldrin | 5.263 | 4.234 | 131.1E6 | 182.8E6 | 47.210 | 53.760 |
| 6) B | beta-BHC | 4.530 | 3.914 | 67427479 | 80957359 | 50.836 | 53.860 |
| 7) B | delta-BHC | 4.777 | 4.143 | 141.8E6 | 187.3E6 | 49.167 | 53.944 |
| 8) B | Heptachlo... | 5.688 | 4.737 | 127.2E6 | 165.1E6 | 49.975m | 54.609 |
| 9) A | Endosulfan I | 6.074 | 5.106 | 117.3E6 | 144.4E6 | 50.702 | 52.598 |
| 10) B | gamma-Chl... | 5.943 | 4.987 | 122.0E6 | 167.1E6 | 49.370m | 55.531 |
| 11) B | alpha-Chl... | 6.024 | 5.050 | 131.3E6 | 163.5E6 | 53.294 | 54.602 |
| 12) B | 4,4'-DDE | 6.197 | 5.238 | 108.3E6 | 156.0E6 | 50.037 | 56.126m |
| 13) MA | Dieldrin | 6.349 | 5.371 | 120.0E6 | 160.2E6 | 49.207 | 54.658 |
| 14) MA | Endrin | 6.578 | 5.646 | 95912037 | 137.8E6 | 46.543m | 52.533 |
| 15) B | Endosulfa... | 6.798 | 5.941 | 105.6E6 | 137.8E6 | 48.002 | 55.076 |
| 16) A | 4,4'-DDD | 6.713 | 5.794 | 93891879 | 126.4E6 | 52.287m | 59.166 |
| 17) MA | 4,4'-DDT | 7.028 | 6.045 | 91029347 | 118.7E6 | 49.440 | 51.300 |
| 18) B | Endrin al... | 6.928 | 6.120 | 85421009 | 107.5E6 | 49.015 | 52.677 |
| 19) B | Endosulfa... | 7.163 | 6.343 | 97798954 | 130.9E6 | 49.337 | 54.256 |
| 20) A | Methoxychlor | 7.503 | 6.620 | 48946596 | 61885358 | 49.858m | 49.494 |
| 21) B | Endrin ke... | 7.648 | 6.847 | 112.0E6 | 163.2E6 | 50.946 | 58.953m |
| 22) | Mirex | 8.122 | 7.029 | 85279363 | 120.0E6 | 47.351 | 49.317 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

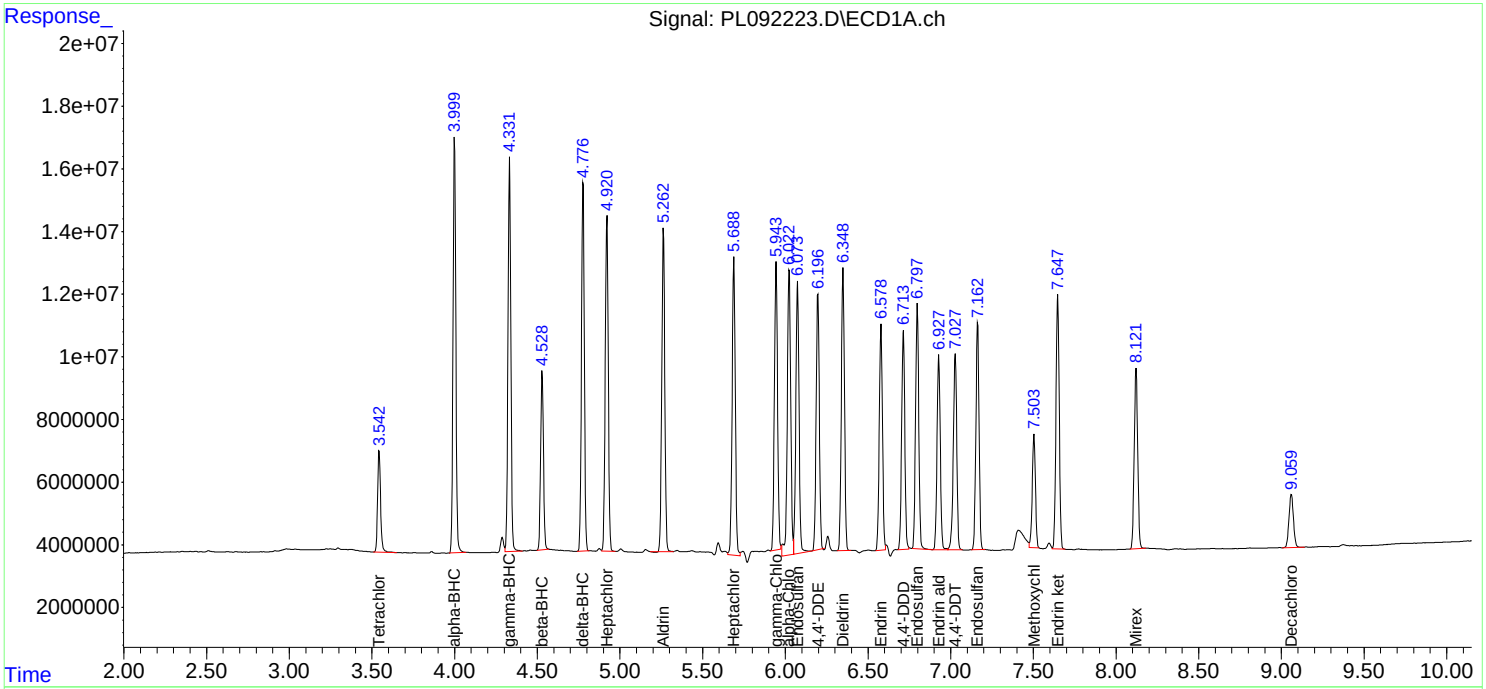
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL100524\
Data File : PL092223.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 17:22
Operator : AR\AJ
Sample : PB163891BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

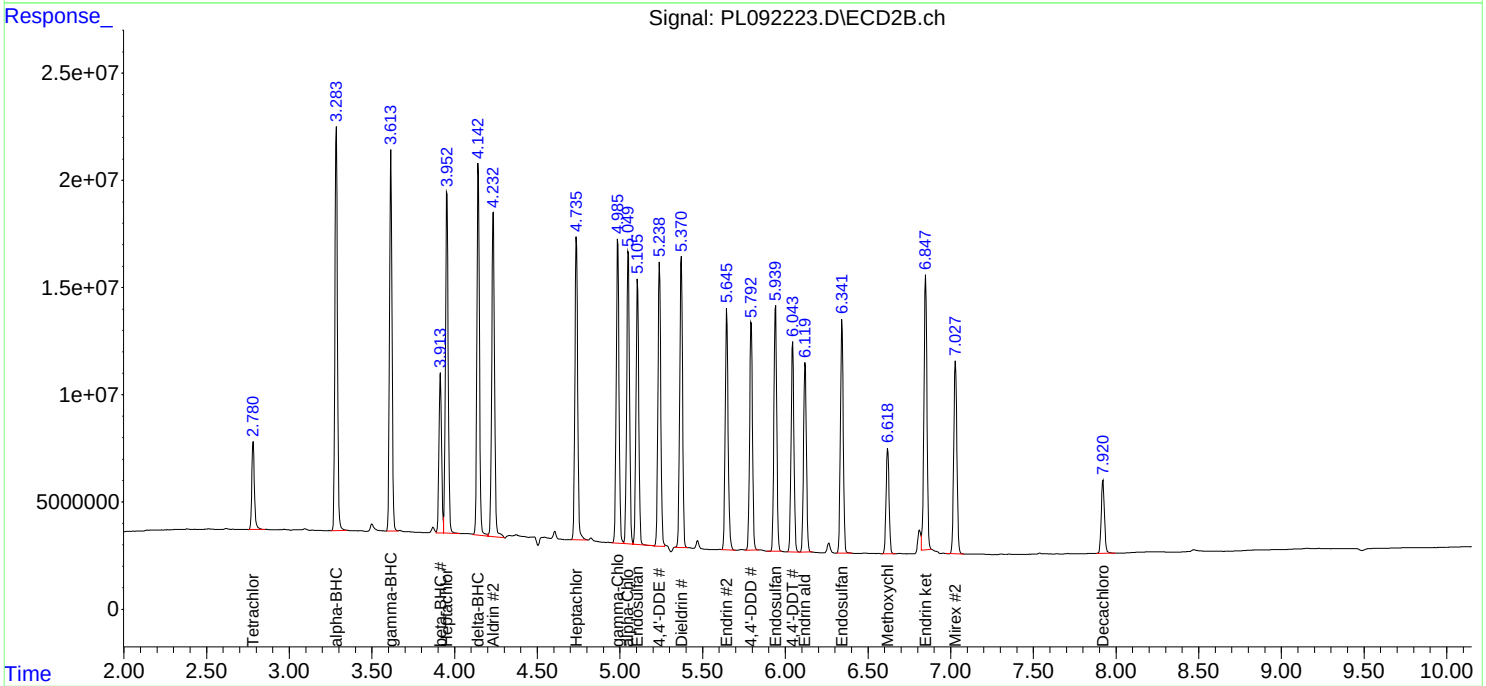
**Instrument :**
ECD_L
**ClientSampleId :**
PB163891BS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:52:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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\PL100524\
Data File : PL092226.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 18:02
Operator : AR\AJ
Sample : P4258-04MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
Chamberlain AveMS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:54:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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... | 3.542 | 2.781 | 36014733 | 41397872 | 16.189 | 16.506 |
| 28) | SA | Decachlor... | 9.059 | 7.920 | 22730590 | 33558685 | 13.875 | 13.413 |
| | Target Compounds | | | | | | | |
| 2) | A | alpha-BHC | 3.999 | 3.284 | 138.9E6 | 176.6E6 | 44.856 | 48.474 |
| 3) | MA | gamma-BHC... | 4.329 | 3.614 | 194.0E6 | 162.1E6 | 62.600m | 45.915 # |
| 4) | MA | Heptachlor | 4.920 | 3.954 | 123.5E6 | 166.3E6 | 44.669 | 48.194 |
| 5) | MB | Aldrin | 5.261 | 4.234 | 115.1E6 | 155.1E6 | 41.431 | 45.599 |
| 6) | B | beta-BHC | 4.528 | 3.914 | 61305357 | 74769552 | 46.220 | 49.744 |
| 7) | B | delta-BHC | 4.775 | 4.143 | 103.2E6 | 123.5E6 | 35.791 | 35.573 |
| 8) | B | Heptachlo... | 5.688 | 4.736 | 112.3E6 | 148.4E6 | 44.134 | 49.097 |
| 9) | A | Endosulfan I | 6.073 | 5.106 | 103.2E6 | 136.0E6 | 44.617 | 49.545 |
| 10) | B | gamma-Chl... | 5.943 | 4.986 | 112.8E6 | 149.5E6 | 45.656 | 49.691 |
| 11) | B | alpha-Chl... | 6.022 | 5.050 | 110.4E6 | 147.2E6 | 44.797 | 49.181 |
| 12) | B | 4,4'-DDE | 6.195 | 5.239 | 97192881 | 137.7E6 | 44.905 | 49.545 |
| 13) | MA | Dieldrin | 6.348 | 5.371 | 109.1E6 | 145.3E6 | 44.719 | 49.562 |
| 14) | MA | Endrin | 6.577 | 5.646 | 88318277 | 124.5E6 | 42.858m | 47.466 |
| 15) | B | Endosulfa... | 6.797 | 5.941 | 96456788 | 124.9E6 | 43.849 | 49.904 |
| 16) | A | 4,4'-DDD | 6.712 | 5.793 | 83194540 | 111.9E6 | 46.329m | 52.389 |
| 17) | MA | 4,4'-DDT | 7.027 | 6.044 | 82307199 | 106.8E6 | 44.703 | 46.167 |
| 18) | B | Endrin al... | 6.927 | 6.120 | 76165836 | 96362317 | 43.704 | 47.220 |
| 19) | B | Endosulfa... | 7.162 | 6.342 | 85710093 | 113.4E6 | 43.238 | 46.988 |
| 20) | A | Methoxychlor | 7.502 | 6.619 | 43817751 | 56908126 | 44.634 | 45.514 |
| 21) | B | Endrin ke... | 7.646 | 6.848 | 102.9E6 | 138.5E6 | 46.817 | 50.024 |
| 22) | | Mirex | 8.120 | 7.029 | 74142221 | 104.0E6 | 41.167 | 42.771 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

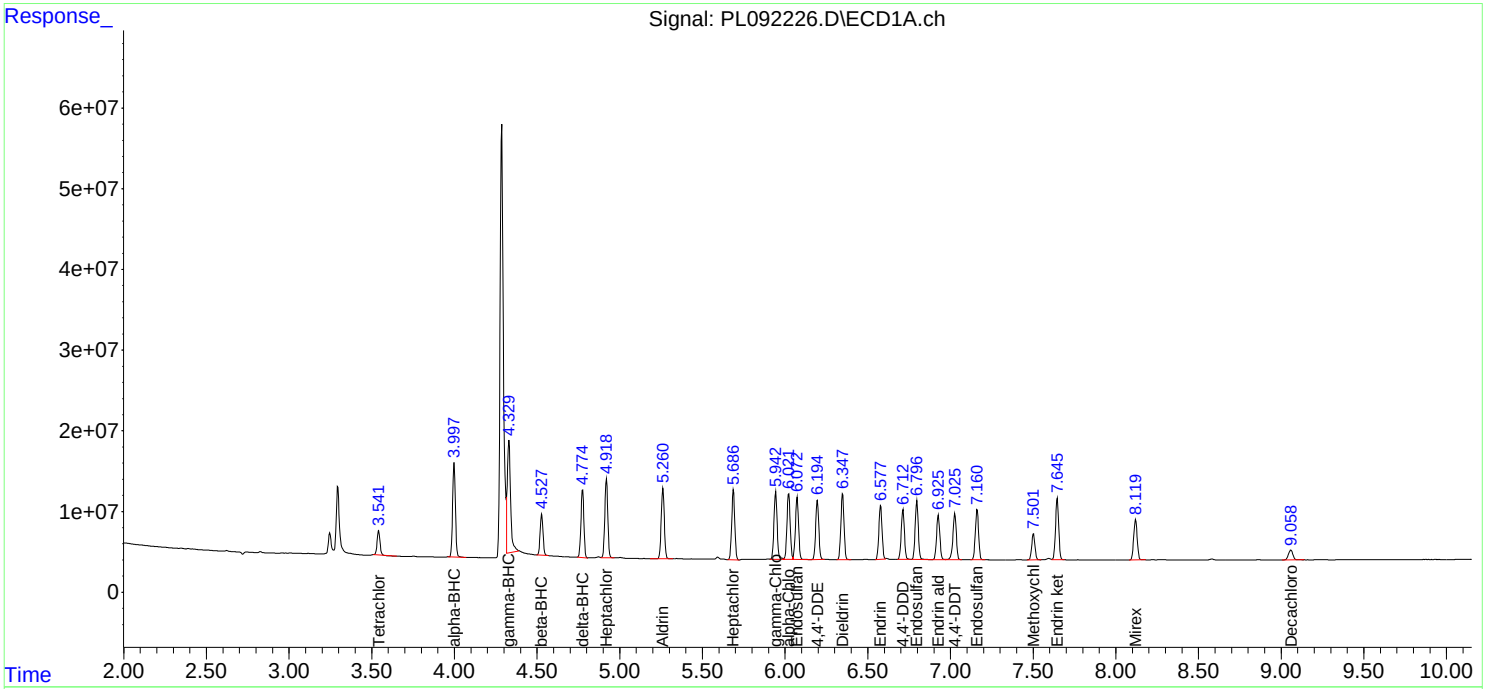
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL100524\
Data File : PL092226.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 18:02
Operator : AR\AJ
Sample : P4258-04MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

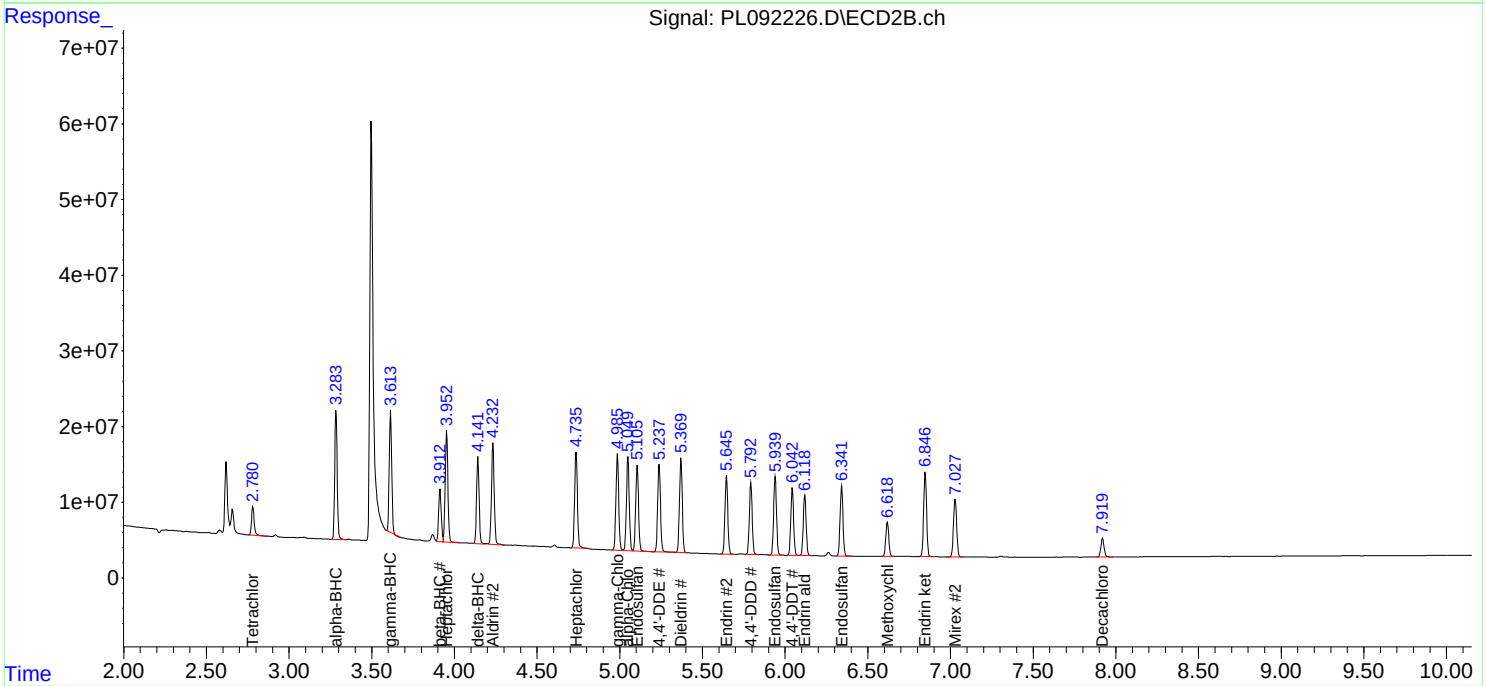
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:54:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 2024
Response via : Initial Calibration
Integrator: ChemStation

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 :**
Chamberlain AveMS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL100524\
Data File : PL092227.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 18:16
Operator : AR\AJ
Sample : P4258-04MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
Chamberlain AveMSD

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:55:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 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... | 3.543 | 2.781 | 37296942 | 42178362 | 16.765 | 16.817 |
| 28) | SA Decachlor... | 9.058 | 7.920 | 22828853 | 33564975 | 13.935 | 13.416 |
| | Target Compounds | | | | | | |
| 2) | A alpha-BHC | 3.999 | 3.284 | 139.5E6 | 175.9E6 | 45.047 | 48.273 |
| 3) | MA gamma-BHC... | 4.329 | 3.614 | 179.2E6 | 161.0E6 | 57.829m | 45.588 |
| 4) | MA Heptachlor | 4.920 | 3.954 | 124.2E6 | 166.3E6 | 44.920 | 48.181 |
| 5) | MB Aldrin | 5.261 | 4.233 | 115.2E6 | 153.2E6 | 41.492 | 45.059 |
| 6) | B beta-BHC | 4.528 | 3.914 | 61143247 | 74243413 | 46.098 | 49.394 |
| 7) | B delta-BHC | 4.775 | 4.143 | 103.0E6 | 122.6E6 | 35.694 | 35.314 |
| 8) | B Heptachlo... | 5.688 | 4.736 | 112.5E6 | 147.9E6 | 44.220 | 48.923 |
| 9) | A Endosulfan I | 6.073 | 5.106 | 103.4E6 | 135.8E6 | 44.676 | 49.466 |
| 10) | B gamma-Chl... | 5.943 | 4.986 | 112.6E6 | 149.2E6 | 45.554 | 49.592 |
| 11) | B alpha-Chl... | 6.022 | 5.049 | 110.5E6 | 146.9E6 | 44.847 | 49.057 |
| 12) | B 4,4'-DDE | 6.195 | 5.239 | 97397541 | 138.1E6 | 44.999 | 49.703 |
| 13) | MA Dieldrin | 6.348 | 5.370 | 109.2E6 | 144.9E6 | 44.760 | 49.409 |
| 14) | MA Endrin | 6.576 | 5.646 | 89310569 | 124.9E6 | 43.340m | 47.645 |
| 15) | B Endosulfa... | 6.797 | 5.940 | 97080135 | 124.8E6 | 44.133 | 49.854 |
| 16) | A 4,4'-DDD | 6.713 | 5.793 | 82957712 | 111.6E6 | 46.198 | 52.234 |
| 17) | MA 4,4'-DDT | 7.027 | 6.044 | 82861878 | 106.8E6 | 45.004 | 46.154 |
| 18) | B Endrin al... | 6.927 | 6.119 | 76064149 | 96051873 | 43.646 | 47.068 |
| 19) | B Endosulfa... | 7.161 | 6.342 | 85850069 | 113.2E6 | 43.309 | 46.923 |
| 20) | A Methoxychlor | 7.502 | 6.619 | 43988409 | 57460689 | 44.808 | 45.956 |
| 21) | B Endrin ke... | 7.646 | 6.847 | 102.6E6 | 138.5E6 | 46.695 | 50.004 |
| 22) | Mirex | 8.120 | 7.028 | 74188401 | 104.1E6 | 41.193 | 42.801 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

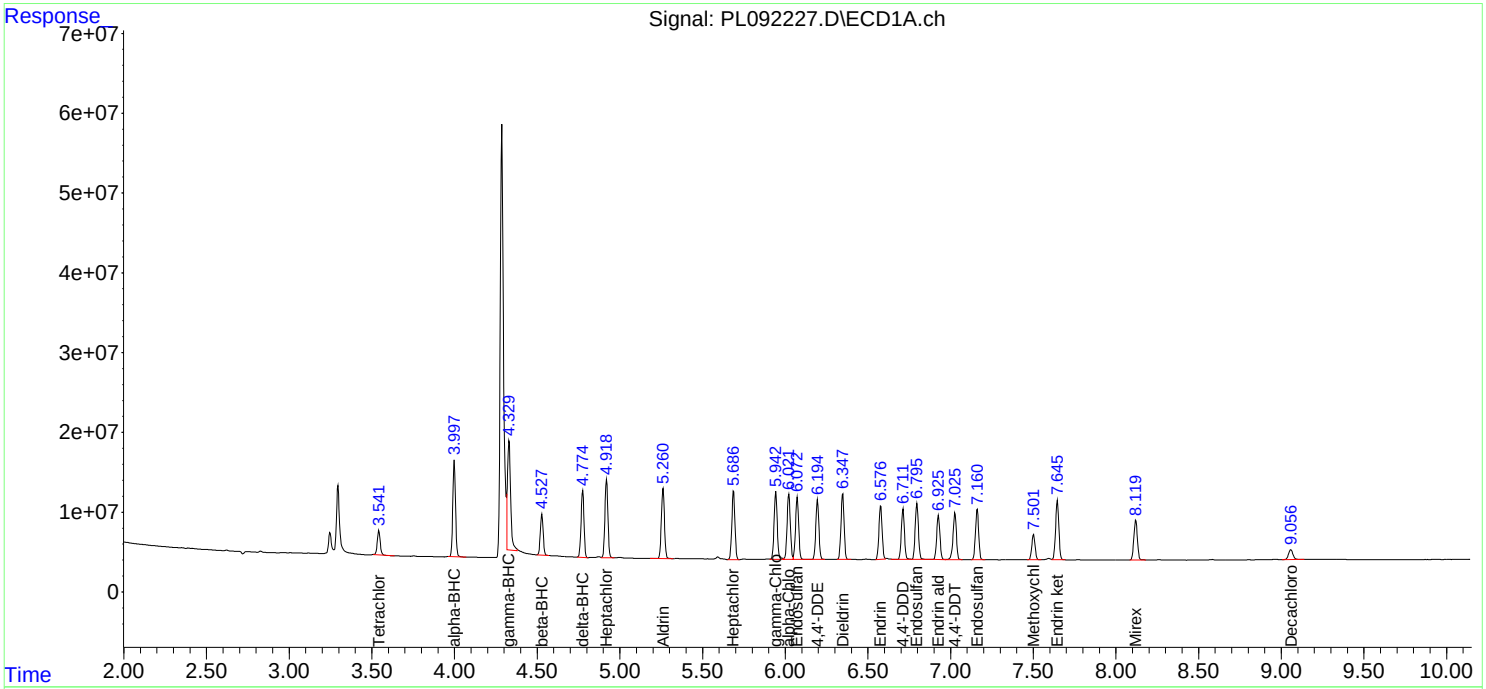
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL100524\
Data File : PL092227.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Oct 2024 18:16
Operator : AR\AJ
Sample : P4258-04MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

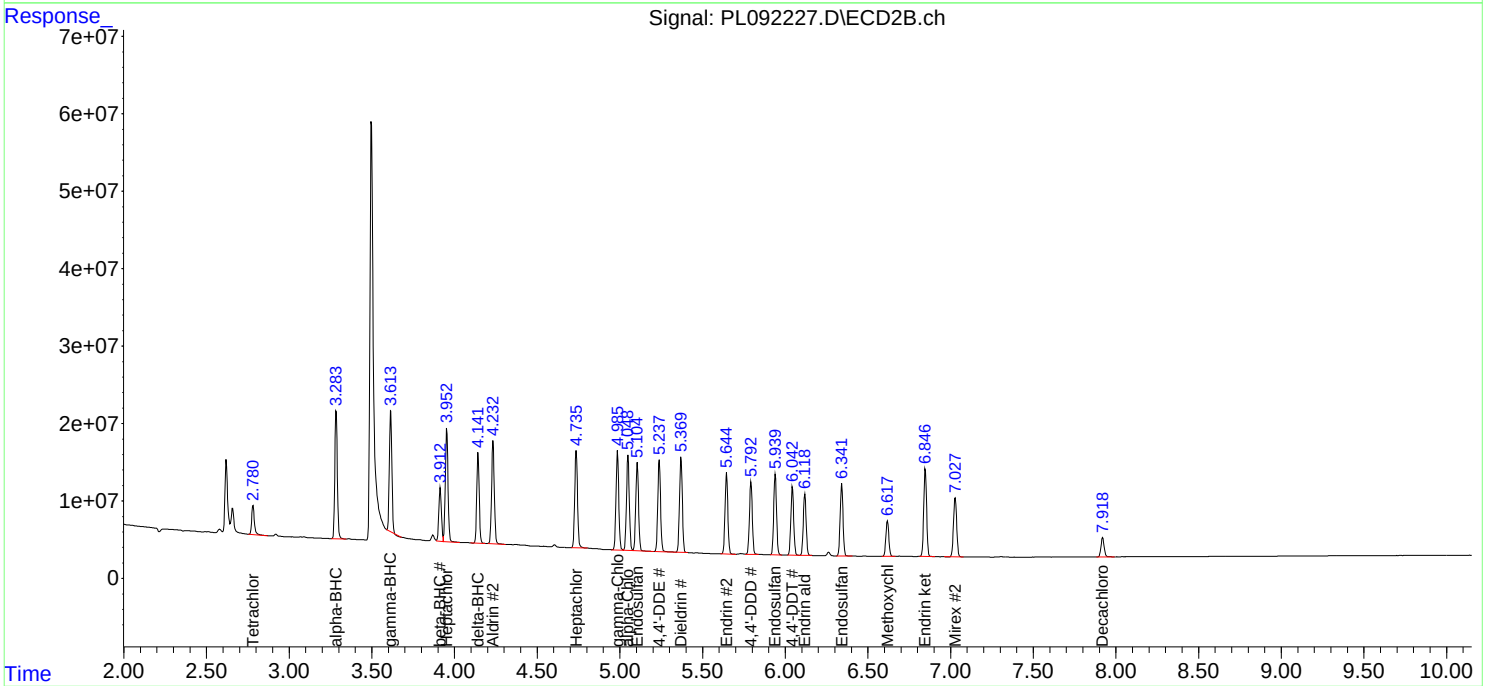
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 02:55:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 2024
Response via : Initial Calibration
Integrator: ChemStation

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 :**
Chamberlain AveMSD

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024



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



# Manual Integration Report

| Sequence: | PL092324 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PL091954.D | Endrin ketone #2 | Abdul | 9/24/2024 9:17:41 AM | Ankita | 9/24/2024 11:06:36 | Peak Integrated by Software |
| PSTDICC025 | PL091959.D | Heptachlor epoxide | Abdul | 9/24/2024 9:17:44 AM | Ankita | 9/24/2024 11:06:38 | Peak Integrated by Software |
| PSTDICC005 | PL091960.D | delta-BHC | Abdul | 9/24/2024 9:17:47 AM | Ankita | 9/24/2024 11:06:40 | Peak Integrated by Software |
| PSTDICC005 | PL091960.D | Endrin ketone #2 | Abdul | 9/24/2024 9:17:47 AM | Ankita | 9/24/2024 11:06:40 | Peak Integrated by Software |
| PSTDICC005 | PL091960.D | Heptachlor | Abdul | 9/24/2024 9:17:47 AM | Ankita | 9/24/2024 11:06:40 | Peak Integrated by Software |
| PSTDICC005 | PL091960.D | Heptachlor epoxide | Abdul | 9/24/2024 9:17:47 AM | Ankita | 9/24/2024 11:06:40 | Peak Integrated by Software |
| PSTDICC005 | PL091960.D | Methoxychlor | Abdul | 9/24/2024 9:17:47 AM | Ankita | 9/24/2024 11:06:40 | Peak Integrated by Software |
| PEM | PL091975.D | 4,4"-DDE | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM | PL091975.D | 4,4"-DDE #2 | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM | PL091975.D | 4,4"-DDT #2 | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM | PL091975.D | Endrin ketone #2 | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM | PL091975.D | gamma-BHC (Lindane) | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM | PL091975.D | Methoxychlor #2 | Abdul | 9/25/2024 12:23:38 PM | Ankita | 9/25/2024 12:24:20 | Peak Integrated by Software |

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



# Manual Integration Report

| Sequence: | PL092324 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PSTDCCC050 | PL091976.D | 4,4"-DDE #2 | Abdul | 9/24/2024 9:18:08 AM | Ankita | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | Aldrin #2 | Abdul | 9/24/2024 9:18:08 AM | Ankita | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | delta-BHC #2 | Abdul | 9/24/2024 9:18:08 AM | Ankita | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | Endrin aldehyde | Abdul | 9/24/2024 9:18:08 AM | Ankita | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | Endrin ketone #2 | Abdul | 9/24/2024 9:18:08 AM | Ankita | 9/24/2024 11:06:48 | Peak Integrated by Software |
| I.BLK | PL091988.D | Tetrachloro-m-xylene | Abdul | 9/24/2024 9:23:07 AM | Ankita | 9/24/2024 11:07:26 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | 4,4"-DDD | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | 4,4"-DDE #2 | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Aldrin #2 | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | delta-BHC #2 | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Endosulfan II | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Endosulfan II #2 | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Endrin | Abdul | 9/24/2024 9:23:10 AM | Ankita | 9/24/2024 11:07:29 | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | PL092324 | 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: | PL100524 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PL092208.D | 4,4"-DDD | Abdul | 10/4/2024 9:11:25 AM | Ankita | 10/4/2024 10:16:58 | Peak Integrated by Software |
| PEM | PL092208.D | 4,4"-DDE | Abdul | 10/4/2024 9:11:25 AM | Ankita | 10/4/2024 10:16:58 | Peak Integrated by Software |
| PSTDCCC050 | PL092209.D | gamma-Chlordane | Abdul | 10/4/2024 9:11:27 AM | Ankita | 10/4/2024 10:17:00 | Peak Integrated by Software |
| PSTDCCC050 | PL092221.D | 4,4"-DDD | Abdul | 10/4/2024 9:15:09 AM | Ankita | 10/4/2024 10:18:07 | Peak Integrated by Software |
| PSTDCCC050 | PL092221.D | 4,4"-DDE #2 | Abdul | 10/4/2024 9:15:09 AM | Ankita | 10/4/2024 10:18:07 | Peak Integrated by Software |
| PB163891BL | PL092222.D | Decachlorobiphenyl | Abdul | 10/4/2024 9:15:12 AM | Ankita | 10/4/2024 10:18:09 | Peak Integrated by Software |
| PB163891BS | PL092223.D | 4,4"-DDD | Abdul | 10/4/2024 9:15:16 AM | Ankita | 10/4/2024 10:18:12 | Peak Integrated by Software |
| PB163891BS | PL092223.D | 4,4"-DDE #2 | Abdul | 10/4/2024 9:15:16 AM | Ankita | 10/4/2024 10:18:12 | Peak Integrated by Software |
| PB163891BS | PL092223.D | Endrin | Abdul | 10/4/2024 9:15:16 AM | Ankita | 10/4/2024 10:18:12 | Peak Integrated by Software |
| PB163891BS | PL092223.D | Endrin ketone #2 | Abdul | 10/4/2024 9:15:16 AM | Ankita | 10/4/2024 10:18:12 | Peak Integrated by Software |
| PB163891BS | PL092223.D | gamma-Chlordane | Abdul | 10/4/2024 9:15:16 AM | Ankita | 10/4/2024 10:18:12 | Peak Integrated by Software |
| PB163891BS | PL092223.D | Heptachlor epoxide | Abdul | 10/4/2024 9:15:16 AM | Ankita | 10/4/2024 10:18:12 | Peak Integrated by Software |
| PB163891BS | PL092223.D | Methoxychlor | Abdul | 10/4/2024 9:15:16 AM | Ankita | 10/4/2024 10:18:12 | Peak Integrated by Software |

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



# Manual Integration Report

| Sequence: | PL100524 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4258-04 | PL092225.D | Decachlorobiphenyl | Abdul | 10/4/2024 9:15:24 AM | Ankita | 10/4/2024 10:18:16 | Peak Integrated by Software |
| P4258-04MS | PL092226.D | 4,4"-DDD | Abdul | 10/4/2024 9:15:29 AM | Ankita | 10/4/2024 10:18:18 | Peak Integrated by Software |
| P4258-04MS | PL092226.D | Endrin | Abdul | 10/4/2024 9:15:29 AM | Ankita | 10/4/2024 10:18:18 | Peak Integrated by Software |
| P4258-04MS | PL092226.D | gamma-BHC (Lindane) | Abdul | 10/4/2024 9:15:29 AM | Ankita | 10/4/2024 10:18:18 | Peak Integrated by Software |
| P4258-04MSD | PL092227.D | Endrin | Abdul | 10/4/2024 9:15:33 AM | Ankita | 10/4/2024 10:18:20 | Peak Integrated by Software |
| P4258-04MSD | PL092227.D | gamma-BHC (Lindane) | Abdul | 10/4/2024 9:15:33 AM | Ankita | 10/4/2024 10:18:20 | Peak Integrated by Software |
| I.BLK | PL092228.D | Tetrachloro-m-xylene | Abdul | 10/4/2024 9:15:37 AM | Ankita | 10/4/2024 10:18:21 | Peak Integrated by Software |
| PSTDCCC050 | PL092229.D | 4,4"-DDD | Abdul | 10/4/2024 9:15:42 AM | Ankita | 10/4/2024 10:18:23 | Peak Integrated by Software |
| PSTDCCC050 | PL092229.D | 4,4"-DDE #2 | Abdul | 10/4/2024 9:15:42 AM | Ankita | 10/4/2024 10:18:23 | Peak Integrated by Software |
| PSTDCCC050 | PL092229.D | Aldrin #2 | Abdul | 10/4/2024 9:15:42 AM | Ankita | 10/4/2024 10:18:23 | Peak Integrated by Software |
| PSTDCCC050 | PL092229.D | gamma-Chlordane | Abdul | 10/4/2024 9:15:42 AM | Ankita | 10/4/2024 10:18:23 | Peak Integrated by Software |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL092324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/24/2024 9:27:05 AM | | |
| Supervise By | Ankita | Supervise On | 9/24/2024 11:07:44 AM | | |
| SubDirectory | PL092324 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL091952.D | 23 Sep 2024 10:38 | AR\AJ | Ok |
| 2 | I.BLK | PL091953.D | 23 Sep 2024 10:52 | AR\AJ | Ok |
| 3 | PEM | PL091954.D | 23 Sep 2024 11:05 | AR\AJ | Ok,M |
| 4 | RESCHK | PL091955.D | 23 Sep 2024 11:19 | AR\AJ | Ok |
| 5 | PSTDICC100 | PL091956.D | 23 Sep 2024 11:32 | AR\AJ | Ok |
| 6 | PSTDICC075 | PL091957.D | 23 Sep 2024 11:45 | AR\AJ | Ok |
| 7 | PSTDICC050 | PL091958.D | 23 Sep 2024 11:59 | AR\AJ | Ok |
| 8 | PSTDICC025 | PL091959.D | 23 Sep 2024 12:12 | AR\AJ | Ok,M |
| 9 | PSTDICC005 | PL091960.D | 23 Sep 2024 12:26 | AR\AJ | Ok,M |
| 10 | PCHLORICC1000 | PL091961.D | 23 Sep 2024 12:39 | AR\AJ | Ok |
| 11 | PCHLORICC750 | PL091962.D | 23 Sep 2024 12:52 | AR\AJ | Ok |
| 12 | PCHLORICC500 | PL091963.D | 23 Sep 2024 13:06 | AR\AJ | Ok |
| 13 | PCHLORICC250 | PL091964.D | 23 Sep 2024 13:19 | AR\AJ | Ok |
| 14 | PCHLORICC050 | PL091965.D | 23 Sep 2024 13:33 | AR\AJ | Ok |
| 15 | PTOXICC1000 | PL091966.D | 23 Sep 2024 13:46 | AR\AJ | Ok |
| 16 | PTOXICC750 | PL091967.D | 23 Sep 2024 13:59 | AR\AJ | Ok |
| 17 | PTOXICC500 | PL091968.D | 23 Sep 2024 14:13 | AR\AJ | Ok |
| 18 | PTOXICC250 | PL091969.D | 23 Sep 2024 14:26 | AR\AJ | Ok |
| 19 | PTOXICC100 | PL091970.D | 23 Sep 2024 14:40 | AR\AJ | Ok,M |
| 20 | PSTDICV050 | PL091971.D | 23 Sep 2024 14:53 | AR\AJ | Ok |
| 21 | PCHLORICV500 | PL091972.D | 23 Sep 2024 15:20 | AR\AJ | Ok |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL092324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/24/2024 9:27:05 AM | | |
| Supervise By | Ankita | Supervise On | 9/24/2024 11:07:44 AM | | |
| SubDirectory | PL092324 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL091973.D | 23 Sep 2024 15:47 | AR\AJ | Ok |
| 23 | I.BLK | PL091974.D | 23 Sep 2024 16:13 | AR\AJ | Ok |
| 24 | PEM | PL091975.D | 23 Sep 2024 16:27 | AR\AJ | Ok,M |
| 25 | PSTDCCC050 | PL091976.D | 23 Sep 2024 16:40 | AR\AJ | Ok,M |
| 26 | PB163572BL | PL091977.D | 23 Sep 2024 16:54 | AR\AJ | Ok |
| 27 | PB163572BS | PL091978.D | 23 Sep 2024 17:07 | AR\AJ | Ok,M |
| 28 | P4103-02 | PL091979.D | 23 Sep 2024 17:20 | AR\AJ | Ok,M |
| 29 | P4103-02MS | PL091980.D | 23 Sep 2024 17:34 | AR\AJ | Ok,M |
| 30 | P4103-02MSD | PL091981.D | 23 Sep 2024 17:47 | AR\AJ | Ok,M |
| 31 | P4103-05 | PL091982.D | 23 Sep 2024 18:01 | AR\AJ | Ok |
| 32 | P4103-08 | PL091983.D | 23 Sep 2024 18:14 | AR\AJ | Ok,M |
| 33 | P4103-11 | PL091984.D | 23 Sep 2024 18:28 | AR\AJ | Ok,M |
| 34 | P4103-14 | PL091985.D | 23 Sep 2024 18:41 | AR\AJ | Ok,M |
| 35 | P4103-17 | PL091986.D | 23 Sep 2024 18:55 | AR\AJ | Ok,M |
| 36 | PB163511TB | PL091987.D | 23 Sep 2024 19:08 | AR\AJ | Ok,M |
| 37 | I.BLK | PL091988.D | 23 Sep 2024 19:21 | AR\AJ | Ok,M |
| 38 | PSTDCCC050 | PL091989.D | 23 Sep 2024 19:35 | AR\AJ | Ok,M |

M : Manual Integration

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL100524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/4/2024 9:16:27 AM | | |
| Supervise By | Ankita | Supervise On | 10/4/2024 10:18:34 AM | | |
| SubDirectory | PL100524 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL092206.D | 03 Oct 2024 10:10 | AR\AJ | Ok |
| 2 | I.BLK | PL092207.D | 03 Oct 2024 10:24 | AR\AJ | Ok |
| 3 | PEM | PL092208.D | 03 Oct 2024 10:37 | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PL092209.D | 03 Oct 2024 10:51 | AR\AJ | Ok,M |
| 5 | PB163841BS | PL092210.D | 03 Oct 2024 11:36 | AR\AJ | Ok,M |
| 6 | PB163841BSD | PL092211.D | 03 Oct 2024 11:49 | AR\AJ | Ok,M |
| 7 | PB163869BL | PL092212.D | 03 Oct 2024 13:01 | AR\AJ | Ok |
| 8 | PB163869BS | PL092213.D | 03 Oct 2024 13:15 | AR\AJ | Ok,M |
| 9 | P4270-01 | PL092214.D | 03 Oct 2024 13:28 | AR\AJ | Ok,M |
| 10 | P4270-01MS | PL092215.D | 03 Oct 2024 13:42 | AR\AJ | Ok,M |
| 11 | P4270-01MSD | PL092216.D | 03 Oct 2024 13:55 | AR\AJ | Ok,M |
| 12 | P4273-01 | PL092217.D | 03 Oct 2024 14:09 | AR\AJ | Ok,M |
| 13 | P4276-01 | PL092218.D | 03 Oct 2024 14:22 | AR\AJ | Ok,M |
| 14 | P4277-01 | PL092219.D | 03 Oct 2024 14:35 | AR\AJ | Ok,M |
| 15 | I.BLK | PL092220.D | 03 Oct 2024 14:49 | AR\AJ | Ok |
| 16 | PSTDCCC050 | PL092221.D | 03 Oct 2024 15:02 | AR\AJ | Ok,M |
| 17 | PB163891BL | PL092222.D | 03 Oct 2024 17:09 | AR\AJ | Ok,M |
| 18 | PB163891BS | PL092223.D | 03 Oct 2024 17:22 | AR\AJ | Ok,M |
| 19 | PB163851TB | PL092224.D | 03 Oct 2024 17:36 | AR\AJ | Ok |
| 20 | P4258-04 | PL092225.D | 03 Oct 2024 17:49 | AR\AJ | Ok,M |
| 21 | P4258-04MS | PL092226.D | 03 Oct 2024 18:02 | AR\AJ | Ok,M |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL100524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/4/2024 9:16:27 AM | | |
| Supervise By | Ankita | Supervise On | 10/4/2024 10:18:34 AM | | |
| SubDirectory | PL100524 | HP Acquire Method | | HP Processing Method | pl092324 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 | P4258-04MSD | PL092227.D | 03 Oct 2024 18:16 | AR\AJ | Ok,M |
| 23 | I.BLK | PL092228.D | 03 Oct 2024 18:29 | AR\AJ | Ok,M |
| 24 | PSTDCCC050 | PL092229.D | 03 Oct 2024 18:43 | AR\AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL092324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/24/2024 9:27:05 AM | | |
| Supervise By | Ankita | Supervise On | 9/24/2024 11:07:44 AM | | |
| SubDirectory | PL092324 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL091952.D | 23 Sep 2024 10:38 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PL091953.D | 23 Sep 2024 10:52 | | AR\AJ | Ok |
| 3 | PEM | PEM | PL091954.D | 23 Sep 2024 11:05 | | AR\AJ | Ok,M |
| 4 | RESCHK | RESCHK | PL091955.D | 23 Sep 2024 11:19 | | AR\AJ | Ok |
| 5 | PSTDICC100 | PSTDICC100 | PL091956.D | 23 Sep 2024 11:32 | | AR\AJ | Ok |
| 6 | PSTDICC075 | PSTDICC075 | PL091957.D | 23 Sep 2024 11:45 | | AR\AJ | Ok |
| 7 | PSTDICC050 | PSTDICC050 | PL091958.D | 23 Sep 2024 11:59 | | AR\AJ | Ok |
| 8 | PSTDICC025 | PSTDICC025 | PL091959.D | 23 Sep 2024 12:12 | | AR\AJ | Ok,M |
| 9 | PSTDICC005 | PSTDICC005 | PL091960.D | 23 Sep 2024 12:26 | | AR\AJ | Ok,M |
| 10 | PCHLORICC1000 | PCHLORICC1000 | PL091961.D | 23 Sep 2024 12:39 | | AR\AJ | Ok |
| 11 | PCHLORICC750 | PCHLORICC750 | PL091962.D | 23 Sep 2024 12:52 | | AR\AJ | Ok |
| 12 | PCHLORICC500 | PCHLORICC500 | PL091963.D | 23 Sep 2024 13:06 | | AR\AJ | Ok |
| 13 | PCHLORICC250 | PCHLORICC250 | PL091964.D | 23 Sep 2024 13:19 | | AR\AJ | Ok |
| 14 | PCHLORICC050 | PCHLORICC050 | PL091965.D | 23 Sep 2024 13:33 | | AR\AJ | Ok |
| 15 | PTOXICC1000 | PTOXICC1000 | PL091966.D | 23 Sep 2024 13:46 | | AR\AJ | Ok |
| 16 | PTOXICC750 | PTOXICC750 | PL091967.D | 23 Sep 2024 13:59 | | AR\AJ | Ok |
| 17 | PTOXICC500 | PTOXICC500 | PL091968.D | 23 Sep 2024 14:13 | | AR\AJ | Ok |
| 18 | PTOXICC250 | PTOXICC250 | PL091969.D | 23 Sep 2024 14:26 | | AR\AJ | Ok |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL092324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/24/2024 9:27:05 AM | | |
| Supervise By | Ankita | Supervise On | 9/24/2024 11:07:44 AM | | |
| SubDirectory | PL092324 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL091970.D | 23 Sep 2024 14:40 | | AR\AJ | Ok,M |
| 20 | PSTDICV050 | ICVPL092324 | PL091971.D | 23 Sep 2024 14:53 | | AR\AJ | Ok |
| 21 | PCHLORICV500 | ICVPL092324CHLOR | PL091972.D | 23 Sep 2024 15:20 | | AR\AJ | Ok |
| 22 | PTOXICV500 | ICVPL092324TOX | PL091973.D | 23 Sep 2024 15:47 | | AR\AJ | Ok |
| 23 | I.BLK | I.BLK | PL091974.D | 23 Sep 2024 16:13 | | AR\AJ | Ok |
| 24 | PEM | PEM | PL091975.D | 23 Sep 2024 16:27 | | AR\AJ | Ok,M |
| 25 | PSTDCCC050 | PSTDCCC050 | PL091976.D | 23 Sep 2024 16:40 | | AR\AJ | Ok,M |
| 26 | PB163572BL | PB163572BL | PL091977.D | 23 Sep 2024 16:54 | | AR\AJ | Ok |
| 27 | PB163572BS | PB163572BS | PL091978.D | 23 Sep 2024 17:07 | | AR\AJ | Ok,M |
| 28 | P4103-02 | WC-22A | PL091979.D | 23 Sep 2024 17:20 | TCMX low 1st column | AR\AJ | Ok,M |
| 29 | P4103-02MS | WC-22AMS | PL091980.D | 23 Sep 2024 17:34 | TCMX low 1st column | AR\AJ | Ok,M |
| 30 | P4103-02MSD | WC-22AMSD | PL091981.D | 23 Sep 2024 17:47 | TCMX low 1st column | AR\AJ | Ok,M |
| 31 | P4103-05 | WC-14-5-7.5A | PL091982.D | 23 Sep 2024 18:01 | | AR\AJ | Ok |
| 32 | P4103-08 | WC-14-5-7.5B | PL091983.D | 23 Sep 2024 18:14 | | AR\AJ | Ok,M |
| 33 | P4103-11 | WC-14-7.5-10A | PL091984.D | 23 Sep 2024 18:28 | | AR\AJ | Ok,M |
| 34 | P4103-14 | WC-14-7.5-10B | PL091985.D | 23 Sep 2024 18:41 | | AR\AJ | Ok,M |
| 35 | P4103-17 | WC-23 | PL091986.D | 23 Sep 2024 18:55 | | AR\AJ | Ok,M |
| 36 | PB163511TB | PB163511TB | PL091987.D | 23 Sep 2024 19:08 | | AR\AJ | Ok,M |
| 37 | I.BLK | I.BLK | PL091988.D | 23 Sep 2024 19:21 | | AR\AJ | Ok,M |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL092324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/24/2024 9:27:05 AM | | |
| Supervise By | Ankita | Supervise On | 9/24/2024 11:07:44 AM | | |
| SubDirectory | PL092324 | HP Acquire Method | | HP Processing Method | pl092324 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 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | PSTDCCC050 | PSTDCCC050 | PL091989.D | 23 Sep 2024 19:35 | | AR\AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL100524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/4/2024 9:16:27 AM | | |
| Supervise By | Ankita | Supervise On | 10/4/2024 10:18:34 AM | | |
| SubDirectory | PL100524 | HP Acquire Method | | HP Processing Method | pl092324 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 | PL092206.D | 03 Oct 2024 10:10 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PL092207.D | 03 Oct 2024 10:24 | | AR\AJ | Ok |
| 3 | PEM | PEM | PL092208.D | 03 Oct 2024 10:37 | | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PSTDCCC050 | PL092209.D | 03 Oct 2024 10:51 | | AR\AJ | Ok,M |
| 5 | PB163841BS | PB163841BS | PL092210.D | 03 Oct 2024 11:36 | | AR\AJ | Ok,M |
| 6 | PB163841BSD | PB163841BSD | PL092211.D | 03 Oct 2024 11:49 | | AR\AJ | Ok,M |
| 7 | PB163869BL | PB163869BL | PL092212.D | 03 Oct 2024 13:01 | | AR\AJ | Ok |
| 8 | PB163869BS | PB163869BS | PL092213.D | 03 Oct 2024 13:15 | | AR\AJ | Ok,M |
| 9 | P4270-01 | IB-2 | PL092214.D | 03 Oct 2024 13:28 | | AR\AJ | Ok,M |
| 10 | P4270-01MS | IB-2MS | PL092215.D | 03 Oct 2024 13:42 | | AR\AJ | Ok,M |
| 11 | P4270-01MSD | IB-2MSD | PL092216.D | 03 Oct 2024 13:55 | | AR\AJ | Ok,M |
| 12 | P4273-01 | AU-05-100224 | PL092217.D | 03 Oct 2024 14:09 | | AR\AJ | Ok,M |
| 13 | P4276-01 | VNJ-208 | PL092218.D | 03 Oct 2024 14:22 | | AR\AJ | Ok,M |
| 14 | P4277-01 | BU-03-10022024 | PL092219.D | 03 Oct 2024 14:35 | | AR\AJ | Ok,M |
| 15 | I.BLK | I.BLK | PL092220.D | 03 Oct 2024 14:49 | | AR\AJ | Ok |
| 16 | PSTDCCC050 | PSTDCCC050 | PL092221.D | 03 Oct 2024 15:02 | | AR\AJ | Ok,M |
| 17 | PB163891BL | PB163891BL | PL092222.D | 03 Oct 2024 17:09 | | AR\AJ | Ok,M |
| 18 | PB163891BS | PB163891BS | PL092223.D | 03 Oct 2024 17:22 | | AR\AJ | Ok,M |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL100524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/4/2024 9:16:27 AM | | |
| Supervise By | Ankita | Supervise On | 10/4/2024 10:18:34 AM | | |
| SubDirectory | PL100524 | HP Acquire Method | | HP Processing Method | pl092324 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 | PB163851TB | PB163851TB | PL092224.D | 03 Oct 2024 17:36 | | AR\AJ | Ok |
| 20 | P4258-04 | Chamberlain Ave | PL092225.D | 03 Oct 2024 17:49 | | AR\AJ | Ok,M |
| 21 | P4258-04MS | Chamberlain AveMS | PL092226.D | 03 Oct 2024 18:02 | | AR\AJ | Ok,M |
| 22 | P4258-04MSD | Chamberlain AveMSD | PL092227.D | 03 Oct 2024 18:16 | | AR\AJ | Ok,M |
| 23 | I.BLK | I.BLK | PL092228.D | 03 Oct 2024 18:29 | | AR\AJ | Ok,M |
| 24 | PSTDCCC050 | PSTDCCC050 | PL092229.D | 03 Oct 2024 18:43 | | AR\AJ | Ok,M |

M : Manual Integration

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**TCLP EXTRACTION LOGPAGE**

PB163851

**SOP ID :** M1311-TCLP-14

**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 :** 10/02/2024 **Time :** 17:35

**End Prep Date :** 10/03/2024 **Time :** 10:25

**Combination Ratio :** 20

**ZHE Cleaning Batch :** N/A

**Initial Room Temperature:** 23 °C

**Final Room Temperature:** 22 °C

**TCLP Technician Signature :** JP

**Supervisor By :** IZ

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE U | Lot Number |
|---|---|---|
| TCLP-FLUID-1 | N/A | WP108622 |
| HCL-TCLP,1N | N/A | WP108584 |
| HNO3-TCLP,1N | N/A | WP108585 |
| pH Strips | N/A | W1931,W1934,W2350,W2755 |
| pH Strips | N/A | W1937,W1938,W1939,W1940,W1941,W1942 |
| 1 Liter Amber | N/A | 23091 |
| 120ml Plastic bottle | N/A | 21029 |
| 1:1 HNO3 | MP81119 | N/A |

**Extraction Conformance/Non-Conformance Comments:**

Matrix spikes are added after fiftation and before preservation. TUMBLER T-1 checked,30 rpm. p4276-02 is used for MS-MSD Particle size reduction is not required.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/03/24 11:00 | JP / TCLP Room | JGP 10/3 1EXT |
| | Preparation Group | Analysis Group 1ORGDIG |

Alliance TECHNICAL GROUP

**TCLP EXTRACTION LOGPAGE**

PB163851

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 01 | 100.02 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4254-04 | MH-147-SLUDGE | 02 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.0 | T-1 |
| P4258-04 | Chamberlain Ave | 03 | 100.04 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4270-04 | IB-2 | 04 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.0 | T-1 |
| P4276-02 | VNJ-208 | 05 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| PB163851TB | LEB851 | 06 | N/A | 2000 | N/A | N/A | N/A | 4.94 | 1.0 | T-1 |

Alliance TECHNICAL GROUP

**TCLP Solid Determination**

PB163851

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | N/A | N/A | N/A | N/A | 100 | N/A |
| P4254-04 | MH-147-SLUDGE | N/A | N/A | N/A | N/A | 100 | N/A |
| P4258-04 | Chamberlain Ave | N/A | N/A | N/A | N/A | 100 | N/A |
| P4270-04 | IB-2 | N/A | N/A | N/A | N/A | 100 | N/A |
| P4276-02 | VNJ-208 | N/A | N/A | N/A | N/A | 100 | N/A |
| PB163851TB | LEB851 | N/A | N/A | N/A | N/A | N/A | N/A |

Alliance TECHNICAL GROUP

**TCLP Fluid Determination**

PB163851

**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 |
|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 5.02 | 96.5 | 7.6 | 2.0 | #1 | 4.93 |
| P4254-04 | MH-147-SLUDGE | 5.01 | 96.5 | 6.6 | 1.5 | #1 | 4.93 |
| P4258-04 | Chamberlain Ave | 5.03 | 96.5 | 7.6 | 2.0 | #1 | 4.93 |
| P4270-04 | IB-2 | 5.02 | 96.5 | 8.4 | 3.0 | #1 | 4.93 |
| P4276-02 | VNJ-208 | 5.02 | 96.5 | 9.0 | 4.0 | #1 | 4.93 |
| PB163851TB | LEB851 | N/A | N/A | N/A | N/A | #1 | 4.93 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** tclp p4258 **WorkList ID :** 184036 **Department :** TCLP Extraction **Date :** 10-02-2024 09:43:17

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 1311 |
| P4254-04 | MH-147-SLUDGE | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 1311 |
| P4258-04 | Chamberlain Ave | Solid | TCLP Extraction | Cool 4 deg C | ROMA02 | H11 | 10/01/2024 | 1311 |
| P4270-04 | IB-2 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J51 | 10/02/2024 | 1311 |
| P4276-02 | VNJ-208 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J53 | 10/02/2024 | 1311 |

**Date/Time** 10/02/24 16:30
**Raw Sample Received by:**
**Raw Sample Relinquished by:**

**Date/Time** 10/02/24 19:00
**Raw Sample Received by:**
**Raw Sample Relinquished by:**

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

# PB163891

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M3510C,3580A-Extraction Pesticide-16 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 10/03/2024 |
| **Matrix :** | Water | | | **Extraction Start Time :** | 11:50 |
| **Weigh By:** | N/A | **Extraction By:** | RS | **Extraction End Date :** | 10/03/2024 |
| **Balance check:** | N/A | **Filter By:** | RS | **Extraction End Time :** | 16:45 |
| **Balance ID:** | N/A | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | E3574 | **Hood ID:** | 4,6,7 | **Supervisor By :** | rajesh |

**Extraction Method:** [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 500 PPB | PP23638 |
| 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 |
|---|---|---|
| Methylene Chloride | N/A | E3803 |
| Baked Na2SO4 | N/A | EP2541 |
| Hexane | N/A | E3805 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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:**

40ML Vial Lot # 03-40BTS721.

| | | | |
|---|---|---|---|
| **KD Bath ID:** | WATER BATH-1 | **Envap ID:** | NE VAP-02 |
| **KD Bath Temperature:** | 60 °C | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/3/24 | RP (Ext. Lab) | R - Prep/PCB Lab |
| 16:50 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB163891**

**Analytical Method:** M3510C,3580A-Extraction Pesticide-16 **Concentration Date:** 10/03/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB163851TB | PB163851TB | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | | | SEP-1 |
| PB163891BL | PBLK891 | TCLP Pesticide | 1000 | 6 | RUPESH | ritesh | 10 | | | 2 |
| PB163891BS | PLCS891 | TCLP Pesticide | 1000 | 6 | RUPESH | ritesh | 10 | | | 3 |
| P4258-04 | CHAMBERLAIN AVE | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | A | | 4 |
| P4258-04MS | CHAMBERLAIN AVEMS | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | A | | 5 |
| P4258-04MSD | CHAMBERLAIN AVEMSD | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | A | | 6 |

* Extracts relinquished on the same date as received.

10/3/24

Alliance TECHNICAL GROUP

## TCLP EXTRACTION LOGPAGE

PB163851

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 01 | 100.02 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4254-04 | MH-147-SLUDGE | 02 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.0 | T-1 |
| P4258-04 | Chamberlain Ave | 03 | 100.04 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4270-04 | IB-2 | 04 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.0 | T-1 |
| P4276-02 | VNJ-208 | 05 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| PB163851TB | LEB851 | 06 | N/A | 2000 | N/A | N/A | N/A | 4.94 | 1.0 | T-1 |

10/03/24

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP Pesticide | 8081B | | 10/03/24 | 10/03/24 | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** P4258 **Order ID:** P4258

**Client:** Roman E&G Corp **Project ID:** Perth Amboy

| 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: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 86 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 |
|---|---|---|---|---|
| PP067446.D | 1 | 10/02/24 08:30 | 10/02/24 23:15 | PB163832 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.90 | U | 3.90 | 19.7 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 7.40 | U | 7.40 | 19.7 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.90 | U | 3.90 | 19.7 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.90 | U | 3.90 | 19.7 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 9.20 | U | 9.20 | 19.7 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.20 | U | 3.20 | 19.7 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.30 | U | 5.30 | 19.7 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.00 | U | 4.00 | 19.7 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.40 | U | 3.40 | 19.7 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 14.3 | | 32 - 144 | 72% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 13.5 | | 32 - 175 | 68% | 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

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## Surrogate Summary

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8082A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PP067251.D | PIBLK-PP067251.D | Tetrachloro-m-xylene | 1 | 20 | 18.8 | 94 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 21.3 | 106 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.6 | 93 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 21.2 | 106 | | 60 | 140 |
| I.BLK-PP067430.D | PIBLK-PP067430.D | Tetrachloro-m-xylene | 1 | 20 | 16.2 | 81 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 16.4 | 82 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 16.0 | 80 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 16.7 | 83 | | 60 | 140 |
| PB163832BL | PB163832BL | Tetrachloro-m-xylene | 1 | 20 | 16.1 | 81 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 16.8 | 84 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 15.9 | 80 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 16.3 | 81 | | 32 | 175 |
| PB163832BS | PB163832BS | Tetrachloro-m-xylene | 1 | 20 | 17.4 | 87 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 16.1 | 81 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 17.3 | 86 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 16.4 | 82 | | 32 | 175 |
| P4255-01MS | OR-03-100124MS | Tetrachloro-m-xylene | 1 | 20 | 17.1 | 85 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 13.5 | 68 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 14.9 | 75 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 12.3 | 62 | | 32 | 175 |
| P4255-01MSD | OR-03-100124MSD | Tetrachloro-m-xylene | 1 | 20 | 17.3 | 87 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 13.1 | 65 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 14.9 | 75 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 12.3 | 61 | | 32 | 175 |
| I.BLK-PP067445.D | PIBLK-PP067445.D | Tetrachloro-m-xylene | 1 | 20 | 16.5 | 82 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 16.1 | 81 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 16.4 | 82 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 16.5 | 82 | | 60 | 140 |
| P4258-03 | Chamberlain Ave | Tetrachloro-m-xylene | 1 | 20 | 14.3 | 72 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 13.1 | 66 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 14.2 | 71 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 13.5 | 68 | | 32 | 175 |
| I.BLK-PP067456.D | PIBLK-PP067456.D | Tetrachloro-m-xylene | 1 | 20 | 16.4 | 82 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 16.5 | 83 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 16.3 | 81 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 16.7 | 84 | | 60 | 140 |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8082A **DataFile :** PP067436.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **OR-03-100124MS** | | | | | | | | | | | |
| P4255-01MS | AR1016 | 188.8 | 0 | 144 | ug/kg | 76 | | | | 55 | 146 | |
| | AR1260 | 188.8 | 0 | 116 | ug/kg | 61 | | | | 45 | 144 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8082A **DataFile :** PP067437.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:** | **OR-03-100124MSD** | | | | | | | | | | | |
| P4255-01MSD | AR1016 | 189.1 | 0 | 143 | ug/kg | 76 | | 0 | | 55 | 146 | 20 |
| | AR1260 | 189.1 | 0 | 104 | ug/kg | 55 | | 10 | | 45 | 144 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8082A **Datafile :** PP067432.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB163832BS | AR1016 | 166.5 | 122 | ug/kg | 73 | | | | 71 | 120 | |
| | AR1260 | 166.5 | 110 | ug/kg | 66 | | | | 65 | 130 | |

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Fax : 908 789 8922



4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163832BL

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab Sample ID: PB163832BL Lab File ID: PP067431.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/02/2024

Date Analyzed (1): 10/02/2024 Date Analyzed (2): 10/02/2024

Time Analyzed (1): 14:54 Time Analyzed (2): 14:54

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 |
|---|---|---|---|---|
| PB163832BS | PB163832BS | PP067432.D | 10/02/2024 | 10/02/2024 |
| OR-03-100124MS | P4255-01MS | PP067436.D | 10/02/2024 | 10/02/2024 |
| OR-03-100124MSD | P4255-01MSD | PP067437.D | 10/02/2024 | 10/02/2024 |
| Chamberlain Ave | P4258-03 | PP067446.D | 10/02/2024 | 10/02/2024 |

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: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | PB163832BL | SDG No.: | P4258 |
| Lab Sample ID: | PB163832BL | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP067431.D | 1 | 10/02/24 08:30 | 10/02/24 14:54 | PB163832 |

| 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 | 16.1 | | 32 - 144 | 81% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 16.8 | | 32 - 175 | 84% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 09/26/24 |
| Project: | Perth Amboy | Date Received: | 09/26/24 |
| Client Sample ID: | PIBLK-PP067251.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PP067251.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 |
|---|---|---|---|---|
| PP067251.D | 1 | | 09/26/24 | PP092624 |

| 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 | 18.6 | | 60 - 140 | 93% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 21.2 | | 60 - 140 | 106% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/02/24 |
| Project: | Perth Amboy | Date Received: | 10/02/24 |
| Client Sample ID: | PIBLK-PP067430.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PP067430.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 |
|---|---|---|---|---|
| PP067430.D | 1 | | 10/02/24 | PP100224 |

| 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 | 16.0 | | 60 - 140 | 80% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 16.4 | | 60 - 140 | 82% | SPK: 20 |

Comments:

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LOD = Limit of Detection
E = Value Exceeds Calibration Range
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/02/24 |
| Project: | Perth Amboy | Date Received: | 10/02/24 |
| Client Sample ID: | PIBLK-PP067445.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PP067445.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 |
|---|---|---|---|---|
| PP067445.D | 1 | | 10/02/24 | PP100224 |

| 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 | 16.4 | | 60 - 140 | 82% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 16.1 | | 60 - 140 | 81% | SPK: 20 |

Comments:

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M = MS/MSD acceptance criteria did not meet requirements

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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922





# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/03/24 |
| Project: | Perth Amboy | Date Received: | 10/03/24 |
| Client Sample ID: | PIBLK-PP067456.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PP067456.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 |
|---|---|---|---|---|
| PP067456.D | 1 | | 10/03/24 | PP100224 |

| 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 | 16.3 | | 60 - 140 | 81% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 16.5 | | 60 - 140 | 83% | SPK: 20 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | PB163832BS | SDG No.: | P4258 |
| Lab Sample ID: | PB163832BS | 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 |
|---|---|---|---|---|
| PP067432.D | 1 | 10/02/24 08:30 | 10/02/24 15:11 | PB163832 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 122 | | 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 | 110 | | 2.90 | 17.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 17.4 | | 32 - 144 | 87% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 16.4 | | 32 - 175 | 82% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | OR-03-100124MS | SDG No.: | P4258 |
| Lab Sample ID: | P4255-01MS | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 88.1 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 |
|---|---|---|---|---|
| PP067436.D | 1 | 10/02/24 08:30 | 10/02/24 16:15 | PB163832 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 144 | | 3.80 | 19.3 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 7.30 | U | 7.30 | 19.3 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.90 | U | 3.90 | 19.3 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.80 | U | 3.80 | 19.3 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.90 | U | 8.90 | 19.3 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.10 | U | 3.10 | 19.3 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.20 | U | 5.20 | 19.3 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.90 | U | 3.90 | 19.3 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 116 | | 3.30 | 19.3 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 17.1 | | 32 - 144 | 85% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 13.5 | | 32 - 175 | 68% | SPK: 20 |

Comments:

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | OR-03-100124MSD | SDG No.: | P4258 |
| Lab Sample ID: | P4255-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 88.1 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 |
|---|---|---|---|---|
| PP067437.D | 1 | 10/02/24 08:30 | 10/02/24 16:31 | PB163832 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 143 | | 3.80 | 19.3 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 7.30 | U | 7.30 | 19.3 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.90 | U | 3.90 | 19.3 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.80 | U | 3.80 | 19.3 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 9.00 | U | 9.00 | 19.3 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.10 | U | 3.10 | 19.3 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.20 | U | 5.20 | 19.3 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.90 | U | 3.90 | 19.3 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 104 | | 3.30 | 19.3 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 17.3 | | 32 - 144 | 87% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 13.1 | | 32 - 175 | 65% | SPK: 20 |

Comments:

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# CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_P **Calibration Date(s):** 09/26/2024 09/26/2024

**Calibration Times:** 16:35 23:51

GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PP067252.D RT 750 = PP067253.D

RT 500 = PP067254.D RT 250 = PP067255.D RT 050 = PP067256.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 | 6.00 | 6.00 | 6.00 | 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) | 6.39 | 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 | 7.77 | 7.77 | 7.77 | 7.77 | 7.67 | 7.87 |
| Aroclor-1260-3 | (3) | 8.13 | 8.13 | 8.13 | 8.13 | 8.13 | 8.13 | 8.03 | 8.23 |
| Aroclor-1260-4 | (4) | 8.37 | 8.37 | 8.37 | 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 | | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.56 | 10.76 |
| Tetrachloro-m-xylene | | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 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 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 5.90 | 6.10 |
| 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 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.56 | 10.76 |
| Tetrachloro-m-xylene | | 4.75 | 4.75 | 4.75 | 4.75 | 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 | 6.83 | 6.84 | 6.84 | 6.74 | 6.94 |
| Decachlorobiphenyl | | 10.66 | 10.66 | 10.66 | 10.66 | 10.67 | 10.66 | 10.56 | 10.76 |
| 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) | 7.35 | 7.35 | 7.35 | 7.35 | 7.35 | 7.35 | 7.25 | 7.45 |
| Aroclor-1254-4 | (4) | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.54 | 7.74 |
| Aroclor-1254-5 | (5) | 8.05 | 8.05 | 8.05 | 8.05 | 8.05 | 8.05 | 7.95 | 8.15 |
| Decachlorobiphenyl | | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.56 | 10.76 |
| Tetrachloro-m-xylene | | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.65 | 4.85 |
| Aroclor-1268-1 | (1) | 9.04 | 9.04 | 9.04 | 9.04 | 9.04 | 9.04 | 8.94 | 9.14 |
| Aroclor-1268-2 | (2) | 9.14 | 9.14 | 9.14 | 9.14 | 9.14 | 9.14 | 9.04 | 9.24 |
| Aroclor-1268-3 | (3) | 9.39 | 9.39 | 9.39 | 9.39 | 9.39 | 9.39 | 9.29 | 9.49 |
| Aroclor-1268-4 | (4) | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.74 | 9.94 |
| Aroclor-1268-5 | (5) | 10.29 | 10.29 | 10.29 | 10.29 | 10.29 | 10.29 | 10.19 | 10.39 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.56 | 10.76 |
| Tetrachloro-m-xylene | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.65 | 4.85 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_P **Calibration Date(s):** 09/26/2024 09/26/2024

**Calibration Times:** 16:35 23:51

GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PP067252.D RT 750 = PP067253.D

RT 500 = PP067254.D RT 250 = PP067255.D RT 050 = PP067256.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 | 5.37 | 5.37 | 5.37 | 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) | 6.67 | 6.67 | 6.67 | 6.67 | 6.67 | 6.67 | 6.57 | 6.77 |
| Aroclor-1260-2 | (2) | 6.85 | 6.85 | 6.86 | 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) | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.39 | 7.59 |
| Aroclor-1260-5 | (5) | 7.73 | 7.73 | 7.73 | 7.73 | 7.73 | 7.73 | 7.63 | 7.83 |
| Decachlorobiphenyl | | 9.23 | 9.23 | 9.23 | 9.22 | 9.23 | 9.23 | 9.13 | 9.33 |
| 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) | 5.37 | 5.37 | 5.37 | 5.36 | 5.37 | 5.37 | 5.27 | 5.47 |
| Aroclor-1242-4 | (4) | 5.45 | 5.45 | 5.45 | 5.45 | 5.45 | 5.45 | 5.35 | 5.55 |
| Aroclor-1242-5 | (5) | 5.98 | 5.98 | 5.98 | 5.98 | 5.98 | 5.98 | 5.88 | 6.08 |
| Decachlorobiphenyl | | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 | 9.13 | 9.33 |
| 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) | 5.45 | 5.45 | 5.45 | 5.45 | 5.45 | 5.45 | 5.35 | 5.55 |
| 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 | 9.23 | 9.22 | 9.23 | 9.23 | 9.23 | 9.13 | 9.33 |
| 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 | 5.98 | 5.98 | 5.98 | 5.98 | 5.98 | 5.88 | 6.08 |
| Aroclor-1254-2 | (2) | 6.13 | 6.13 | 6.13 | 6.13 | 6.13 | 6.13 | 6.03 | 6.23 |
| Aroclor-1254-3 | (3) | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.44 | 6.64 |
| Aroclor-1254-4 | (4) | 6.77 | 6.77 | 6.77 | 6.76 | 6.77 | 6.77 | 6.67 | 6.87 |
| Aroclor-1254-5 | (5) | 7.19 | 7.19 | 7.19 | 7.19 | 7.19 | 7.19 | 7.09 | 7.29 |
| Decachlorobiphenyl | | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 | 9.13 | 9.33 |
| 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) | 8.08 | 8.08 | 8.08 | 8.08 | 8.08 | 8.08 | 7.98 | 8.18 |
| Aroclor-1268-3 | (3) | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 8.20 | 8.40 |
| Aroclor-1268-4 | (4) | 8.61 | 8.61 | 8.61 | 8.61 | 8.60 | 8.61 | 8.51 | 8.71 |
| Aroclor-1268-5 | (5) | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.93 | 8.83 | 9.03 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 | 9.13 | 9.33 |
| 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:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_P **Calibration Date(s):** 09/26/2024 09/26/2024

**Calibration Times:** 16:35 23:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 1000 =** PP067252.D **CF 750 =** PP067253.D

**CF 500 =** PP067254.D **CF 250 =** PP067255.D **CF 050 =** PP067256.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 44419111 | 47843915 | 48463766 | 51457240 | 46214600 | 47679726 | 6 |
| Aroclor-1016-2 | (2) | 66273346 | 69936809 | 70695050 | 74503600 | 64800180 | 69241797 | 6 |
| Aroclor-1016-3 | (3) | 42126964 | 44870201 | 45584096 | 48480564 | 42289060 | 44670177 | 6 |
| Aroclor-1016-4 | (4) | 34486401 | 36688400 | 37384872 | 38804648 | 32312260 | 35935316 | 7 |
| Aroclor-1016-5 | (5) | 35241870 | 36831423 | 36565640 | 40574232 | 35035380 | 36849709 | 6 |
| Aroclor-1260-1 | (1) | 72804474 | 74636249 | 76976410 | 86724760 | 82770500 | 78782479 | 7 |
| Aroclor-1260-2 | (2) | 83283968 | 85879869 | 87579650 | 96576876 | 102407900 | 91145653 | 9 |
| Aroclor-1260-3 | (3) | 59203825 | 61727104 | 62206822 | 68594056 | 64118760 | 63170113 | 6 |
| Aroclor-1260-4 | (4) | 71691054 | 72427019 | 74993884 | 82954028 | 75461040 | 75505405 | 6 |
| Aroclor-1260-5 | (5) | 126425614 | 128097603 | 125670370 | 136734476 | 130449300 | 129475473 | 3 |
| Decachlorobiphenyl | | 1428986690 | 1451331547 | 1388207880 | 1534539680 | 1455479200 | 1451708999 | 4 |
| Tetrachloro-m-xylene | | 1320948110 | 1333938373 | 1371732600 | 1421719440 | 1272137200 | 1344095145 | 4 |
| Aroclor-1242-1 | (1) | 32590287 | 35438405 | 35684390 | 39394724 | 34704880 | 35562537 | 7 |
| Aroclor-1242-2 | (2) | 49525733 | 51136908 | 52275440 | 56483700 | 52175500 | 52319456 | 5 |
| Aroclor-1242-3 | (3) | 31537636 | 33210816 | 33798564 | 37146508 | 34712320 | 34081169 | 6 |
| Aroclor-1242-4 | (4) | 25485111 | 27097747 | 27716496 | 29942828 | 26887540 | 27425944 | 6 |
| Aroclor-1242-5 | (5) | 27959336 | 29744957 | 29619882 | 31303116 | 30181720 | 29761802 | 4 |
| Decachlorobiphenyl | | 1228628910 | 1282332080 | 1315551520 | 1436258040 | 1400909800 | 1332736070 | 6 |
| Tetrachloro-m-xylene | | 1274763390 | 1308384813 | 1318477360 | 1378792040 | 1190196800 | 1294122881 | 5 |
| Aroclor-1248-1 | (1) | 26142314 | 28136507 | 28756662 | 30766392 | 27373520 | 28235079 | 6 |
| Aroclor-1248-2 | (2) | 40429411 | 43430761 | 45434880 | 48587248 | 44092000 | 44394860 | 7 |
| Aroclor-1248-3 | (3) | 45010600 | 48345327 | 50727652 | 53116168 | 45420600 | 48524069 | 7 |
| Aroclor-1248-4 | (4) | 49122151 | 51881811 | 54829062 | 58556964 | 56908720 | 54259742 | 7 |
| Aroclor-1248-5 | (5) | 48706813 | 52366436 | 54707374 | 56932820 | 63007200 | 55144129 | 10 |
| Decachlorobiphenyl | | 1179855010 | 1266318733 | 1362655540 | 1467619240 | 1518349400 | 1358959585 | 10 |
| Tetrachloro-m-xylene | | 1257022680 | 1308333093 | 1315308180 | 1318520440 | 1300100000 | 1299856879 | 2 |
| Aroclor-1254-1 | (1) | 54370186 | 59336697 | 64783254 | 66257520 | 66769100 | 62303351 | 9 |
| Aroclor-1254-2 | (2) | 81855852 | 84674907 | 91938532 | 99456720 | 95746360 | 90734474 | 8 |
| Aroclor-1254-3 | (3) | 85913006 | 89279845 | 95579072 | 101841008 | 96380160 | 93798618 | 7 |
| Aroclor-1254-4 | (4) | 61059801 | 62216724 | 67990500 | 72965140 | 68987480 | 66643929 | 7 |
| Aroclor-1254-5 | (5) | 73231896 | 75975464 | 84633810 | 92281900 | 84856400 | 82195894 | 9 |
| Decachlorobiphenyl | | 1252633320 | 1291359093 | 1426357700 | 1567389680 | 1561818000 | 1419911559 | 10 |
| Tetrachloro-m-xylene | | 1274651600 | 1302777227 | 1369214640 | 1398315920 | 1230485000 | 1315088877 | 5 |
| Aroclor-1268-1 | (1) | 175908119 | 184905628 | 198548274 | 210006300 | 193282300 | 192530124 | 7 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 156842145 | 165093857 | 177267534 | 186684644 | 167072200 | 170592076 | 7 |
| Aroclor-1268-3 | (3) | 135684912 | 143226937 | 158093186 | 164596312 | 151221780 | 150564625 | 8 |
| Aroclor-1268-4 | (4) | 56156840 | 60654088 | 65088082 | 69244892 | 53115220 | 60851824 | 11 |
| Aroclor-1268-5 | (5) | 402419786 | 420609543 | 444259204 | 469029060 | 423811480 | 432025815 | 6 |
| Decachlorobiphenyl | | 1995353170 | 2111300013 | 2288684640 | 2485300560 | 2316967800 | 2239521237 | 9 |
| Tetrachloro-m-xylene | | 1269582350 | 1281467173 | 1329784700 | 1362552800 | 1155860600 | 1279849525 | 6 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_P **Calibration Date(s):** 09/26/2024 09/26/2024

**Calibration Times:** 16:35 23:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 1000 =** PP067252.D **CF 750 =** PP067253.D

**CF 500 =** PP067254.D **CF 250 =** PP067255.D **CF 050 =** PP067256.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 47507624 | 50065296 | 50596566 | 56447684 | 53276980 | 51578830 | 7 |
| Aroclor-1016-2 | (2) | 67054634 | 70699065 | 70688422 | 75675856 | 71402760 | 71104147 | 4 |
| Aroclor-1016-3 | (3) | 37686975 | 39498207 | 39671004 | 43195096 | 38937580 | 39797772 | 5 |
| Aroclor-1016-4 | (4) | 31659913 | 33241739 | 34193378 | 38223664 | 35326760 | 34529091 | 7 |
| Aroclor-1016-5 | (5) | 39859554 | 41288944 | 42279940 | 47109232 | 44012600 | 42910054 | 7 |
| Aroclor-1260-1 | (1) | 76704775 | 76744993 | 79629732 | 88860204 | 87077780 | 81803497 | 7 |
| Aroclor-1260-2 | (2) | 88692208 | 89174457 | 90577018 | 100949340 | 100329460 | 93944497 | 7 |
| Aroclor-1260-3 | (3) | 87237954 | 86709761 | 88200132 | 98147496 | 92681860 | 90595441 | 5 |
| Aroclor-1260-4 | (4) | 64325827 | 63516555 | 64916068 | 72170496 | 68474160 | 66680621 | 5 |
| Aroclor-1260-5 | (5) | 143340290 | 143126123 | 140670062 | 152771532 | 148018120 | 145585225 | 3 |
| Decachlorobiphenyl | | 1286582750 | 1372480587 | 1327626500 | 1467729840 | 1435706000 | 1378025135 | 5 |
| Tetrachloro-m-xylene | | 1462340340 | 1484383840 | 1501244320 | 1587440040 | 1435319800 | 1494145668 | 4 |
| Aroclor-1242-1 | (1) | 35183205 | 36871547 | 37882946 | 42238536 | 39553660 | 38345979 | 7 |
| Aroclor-1242-2 | (2) | 48701033 | 51295347 | 52516600 | 57501448 | 51827220 | 52368330 | 6 |
| Aroclor-1242-3 | (3) | 27626744 | 29298227 | 29834082 | 32375592 | 29468800 | 29720689 | 6 |
| Aroclor-1242-4 | (4) | 28951851 | 31055845 | 32149928 | 35455392 | 33280540 | 32178711 | 8 |
| Aroclor-1242-5 | (5) | 34473679 | 37292215 | 38185746 | 41782456 | 39156820 | 38178183 | 7 |
| Decachlorobiphenyl | | 1192213450 | 1244799987 | 1277145640 | 1395684640 | 1393433600 | 1300655463 | 7 |
| Tetrachloro-m-xylene | | 1390273470 | 1434732867 | 1457949020 | 1541345360 | 1399576200 | 1444775383 | 4 |
| Aroclor-1248-1 | (1) | 27588187 | 29574940 | 31091976 | 33170676 | 31703540 | 30625864 | 7 |
| Aroclor-1248-2 | (2) | 40345419 | 43286764 | 45479288 | 49885104 | 47841840 | 45367683 | 8 |
| Aroclor-1248-3 | (3) | 42187695 | 45333489 | 47552076 | 51799776 | 49806180 | 47335843 | 8 |
| Aroclor-1248-4 | (4) | 49076618 | 52617733 | 55044738 | 59607604 | 55193140 | 54307967 | 7 |
| Aroclor-1248-5 | (5) | 44447724 | 47412072 | 49239092 | 53031592 | 49561920 | 48738480 | 6 |
| Decachlorobiphenyl | | 1148423880 | 1228734080 | 1317796480 | 1434839040 | 1432111000 | 1312380896 | 10 |
| Tetrachloro-m-xylene | | 1386396710 | 1440109453 | 1444296880 | 1496590320 | 1361770200 | 1425832713 | 4 |
| Aroclor-1254-1 | (1) | 72410325 | 75156131 | 82001486 | 88732416 | 87005480 | 81061168 | 9 |
| Aroclor-1254-2 | (2) | 65042328 | 67686927 | 74211806 | 81368784 | 78402740 | 73342517 | 9 |
| Aroclor-1254-3 | (3) | 103377816 | 106525328 | 115857578 | 124448572 | 119885800 | 114019019 | 8 |
| Aroclor-1254-4 | (4) | 57019875 | 58844723 | 63158998 | 69623192 | 63428600 | 62415078 | 8 |
| Aroclor-1254-5 | (5) | 94217776 | 96861493 | 106044638 | 113458560 | 102765100 | 102669513 | 7 |
| Decachlorobiphenyl | | 1217083410 | 1264809373 | 1392461240 | 1523977680 | 1504204800 | 1380507301 | 10 |
| Tetrachloro-m-xylene | | 1404767980 | 1441205667 | 1507072340 | 1548308360 | 1404292800 | 1461129429 | 4 |
| Aroclor-1268-1 | (1) | 185241584 | 194268752 | 208513166 | 215875424 | 203147560 | 201409297 | 6 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 164970336 | 174654029 | 185442450 | 191027352 | 178236640 | 178866161 | 6 |
| Aroclor-1268-3 | (3) | 146694065 | 153538260 | 163846224 | 171430012 | 158826960 | 158867104 | 6 |
| Aroclor-1268-4 | (4) | 60171176 | 63753664 | 68832810 | 72444200 | 57620380 | 64564446 | 9 |
| Aroclor-1268-5 | (5) | 414150414 | 437759647 | 461679468 | 462522504 | 432852520 | 441792911 | 5 |
| Decachlorobiphenyl | | 2014313240 | 2126447307 | 2276844760 | 2395709880 | 2294694800 | 2221601997 | 7 |
| Tetrachloro-m-xylene | | 1381378820 | 1411462773 | 1475519260 | 1527573680 | 1367485400 | 1432683987 | 5 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_P **Date(s) Analyzed:** 09/26/2024 09/26/2024

**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 | 16740700 |
| | | 2 | 5.04 | 4.94 | 5.14 | 12669100 |
| | | 3 | 5.12 | 5.02 | 5.22 | 38701400 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 5.12 | 5.02 | 5.22 | 32063000 |
| | | 2 | 5.65 | 5.55 | 5.75 | 17799400 |
| | | 3 | 5.94 | 5.84 | 6.04 | 31612600 |
| | | 4 | 6.10 | 6.00 | 6.20 | 16136900 |
| | | 5 | 6.19 | 6.09 | 6.29 | 13528700 |
| Aroclor-1262 | 500 | 1 | 8.37 | 8.27 | 8.47 | 95348600 |
| | | 2 | 8.71 | 8.61 | 8.81 | 162249000 |
| | | 3 | 9.05 | 8.95 | 9.15 | 117480000 |
| | | 4 | 9.14 | 9.04 | 9.24 | 92486400 |
| | | 5 | 9.84 | 9.74 | 9.94 | 61222600 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_P **Date(s) Analyzed:** 09/26/2024 09/26/2024

**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 | 19118000 |
| | | 2 | 4.36 | 4.26 | 4.46 | 14671200 |
| | | 3 | 4.44 | 4.34 | 4.54 | 43363800 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 4.44 | 4.34 | 4.54 | 35971200 |
| | | 2 | 5.18 | 5.08 | 5.28 | 33127600 |
| | | 3 | 5.36 | 5.26 | 5.46 | 17965800 |
| | | 4 | 5.45 | 5.35 | 5.55 | 17488700 |
| | | 5 | 5.62 | 5.52 | 5.72 | 18776200 |
| Aroclor-1262 | 500 | 1 | 7.23 | 7.13 | 7.33 | 105179000 |
| | | 2 | 7.49 | 7.39 | 7.59 | 94676000 |
| | | 3 | 8.01 | 7.91 | 8.11 | 73351600 |
| | | 4 | 8.08 | 7.98 | 8.18 | 131798000 |
| | | 5 | 8.61 | 8.51 | 8.71 | 60759600 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/02/2024 **Initial Calibration Date(s):** 09/26/2024 09/26/2024

**Continuing Calib Time:** 13:34 **Initial Calibration Time(s):** 16:35 23:51

**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) | 6.00 | 6.00 | 5.90 | 6.10 | 0.00 |
| 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 | 7.77 | 7.67 | 7.87 | 0.00 |
| Aroclor-1260-3 | (3) | 8.13 | 8.13 | 8.03 | 8.23 | 0.00 |
| Aroclor-1260-4 | (4) | 8.37 | 8.37 | 8.27 | 8.47 | 0.00 |
| Aroclor-1260-5 | (5) | 8.71 | 8.71 | 8.61 | 8.81 | 0.00 |
| Tetrachloro-m-xylene | | 4.75 | 4.75 | 4.65 | 4.85 | 0.00 |
| Decachlorobiphenyl | | 10.66 | 10.66 | 10.56 | 10.76 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/02/2024 **Initial Calibration Date(s):** 09/26/2024 09/26/2024

**Continuing Calib Time:** 13:34 **Initial Calibration Time(s):** 16:35 23:51

**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 | 5.37 | 5.27 | 5.47 | 0.01 |
| 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 | 6.67 | 6.57 | 6.77 | 0.01 |
| Aroclor-1260-2 | (2) | 6.85 | 6.86 | 6.76 | 6.96 | 0.01 |
| Aroclor-1260-3 | (3) | 7.01 | 7.01 | 6.91 | 7.11 | 0.00 |
| Aroclor-1260-4 | (4) | 7.48 | 7.49 | 7.39 | 7.59 | 0.01 |
| Aroclor-1260-5 | (5) | 7.72 | 7.73 | 7.63 | 7.83 | 0.01 |
| Tetrachloro-m-xylene | | 4.05 | 4.05 | 3.95 | 4.15 | 0.00 |
| Decachlorobiphenyl | | 9.22 | 9.23 | 9.13 | 9.33 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/26/2024 09/26/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/02/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PP067426.D **Time Analyzed:** 13:34

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.917 | 5.817 | 6.017 | 474.830 | 500.000 | -5.0 |
| Aroclor-1016-2 | 5.940 | 5.840 | 6.040 | 469.370 | 500.000 | -6.1 |
| Aroclor-1016-3 | 6.003 | 5.903 | 6.103 | 478.840 | 500.000 | -4.2 |
| Aroclor-1016-4 | 6.101 | 6.002 | 6.202 | 478.430 | 500.000 | -4.3 |
| Aroclor-1016-5 | 6.396 | 6.296 | 6.496 | 480.050 | 500.000 | -4.0 |
| Aroclor-1260-1 | 7.519 | 7.418 | 7.618 | 430.280 | 500.000 | -13.9 |
| Aroclor-1260-2 | 7.772 | 7.672 | 7.872 | 420.850 | 500.000 | -15.8 |
| Aroclor-1260-3 | 8.133 | 8.033 | 8.233 | 431.910 | 500.000 | -13.6 |
| Aroclor-1260-4 | 8.372 | 8.271 | 8.471 | 443.950 | 500.000 | -11.2 |
| Aroclor-1260-5 | 8.708 | 8.608 | 8.808 | 444.910 | 500.000 | -11.0 |
| Decachlorobiphenyl | 10.661 | 10.561 | 10.761 | 47.300 | 50.000 | -5.4 |
| Tetrachloro-m-xylene | 4.753 | 4.653 | 4.853 | 50.950 | 50.000 | 1.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/26/2024 09/26/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/02/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PP067426.D **Time Analyzed:** 13:34

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.160 | 5.064 | 5.264 | 449.100 | 500.000 | -10.2 |
| Aroclor-1016-2 | 5.181 | 5.084 | 5.284 | 459.490 | 500.000 | -8.1 |
| Aroclor-1016-3 | 5.361 | 5.265 | 5.465 | 460.030 | 500.000 | -8.0 |
| Aroclor-1016-4 | 5.400 | 5.304 | 5.504 | 457.300 | 500.000 | -8.5 |
| Aroclor-1016-5 | 5.619 | 5.524 | 5.724 | 462.480 | 500.000 | -7.5 |
| Aroclor-1260-1 | 6.664 | 6.569 | 6.769 | 433.030 | 500.000 | -13.4 |
| Aroclor-1260-2 | 6.850 | 6.755 | 6.955 | 436.360 | 500.000 | -12.7 |
| Aroclor-1260-3 | 7.008 | 6.913 | 7.113 | 439.810 | 500.000 | -12.0 |
| Aroclor-1260-4 | 7.483 | 7.388 | 7.588 | 446.520 | 500.000 | -10.7 |
| Aroclor-1260-5 | 7.721 | 7.626 | 7.826 | 454.610 | 500.000 | -9.1 |
| Decachlorobiphenyl | 9.218 | 9.126 | 9.326 | 48.380 | 50.000 | -3.2 |
| Tetrachloro-m-xylene | 4.051 | 3.953 | 4.153 | 49.670 | 50.000 | -0.7 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/02/2024 **Initial Calibration Date(s):** 09/26/2024 09/26/2024

**Continuing Calib Time:** 20:39 **Initial Calibration Time(s):** 16:35 23:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.92 | 5.92 | 5.82 | 6.02 | 0.01 |
| Aroclor-1016-2 | (2) | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |
| Aroclor-1016-3 | (3) | 6.00 | 6.00 | 5.90 | 6.10 | 0.00 |
| Aroclor-1016-4 | (4) | 6.10 | 6.10 | 6.00 | 6.20 | 0.00 |
| Aroclor-1016-5 | (5) | 6.39 | 6.40 | 6.30 | 6.50 | 0.01 |
| Aroclor-1260-1 | (1) | 7.52 | 7.52 | 7.42 | 7.62 | 0.00 |
| Aroclor-1260-2 | (2) | 7.77 | 7.77 | 7.67 | 7.87 | 0.00 |
| Aroclor-1260-3 | (3) | 8.13 | 8.13 | 8.03 | 8.23 | 0.00 |
| Aroclor-1260-4 | (4) | 8.37 | 8.37 | 8.27 | 8.47 | 0.00 |
| Aroclor-1260-5 | (5) | 8.71 | 8.71 | 8.61 | 8.81 | 0.00 |
| Tetrachloro-m-xylene | | 4.75 | 4.75 | 4.65 | 4.85 | 0.00 |
| Decachlorobiphenyl | | 10.66 | 10.66 | 10.56 | 10.76 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/02/2024 **Initial Calibration Date(s):** 09/26/2024 09/26/2024

**Continuing Calib Time:** 20:39 **Initial Calibration Time(s):** 16:35 23:51

**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 | 5.37 | 5.27 | 5.47 | 0.01 |
| 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 | 6.67 | 6.57 | 6.77 | 0.01 |
| Aroclor-1260-2 | (2) | 6.85 | 6.86 | 6.76 | 6.96 | 0.01 |
| Aroclor-1260-3 | (3) | 7.01 | 7.01 | 6.91 | 7.11 | 0.00 |
| Aroclor-1260-4 | (4) | 7.48 | 7.49 | 7.39 | 7.59 | 0.01 |
| Aroclor-1260-5 | (5) | 7.72 | 7.73 | 7.63 | 7.83 | 0.01 |
| Tetrachloro-m-xylene | | 4.05 | 4.05 | 3.95 | 4.15 | 0.00 |
| Decachlorobiphenyl | | 9.22 | 9.23 | 9.13 | 9.33 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/26/2024 09/26/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/02/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PP067441.D **Time Analyzed:** 20:39

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.915 | 5.817 | 6.017 | 467.930 | 500.000 | -6.4 |
| Aroclor-1016-2 | 5.939 | 5.840 | 6.040 | 469.650 | 500.000 | -6.1 |
| Aroclor-1016-3 | 6.002 | 5.903 | 6.103 | 472.860 | 500.000 | -5.4 |
| Aroclor-1016-4 | 6.099 | 6.002 | 6.202 | 475.230 | 500.000 | -5.0 |
| Aroclor-1016-5 | 6.394 | 6.296 | 6.496 | 471.350 | 500.000 | -5.7 |
| Aroclor-1260-1 | 7.517 | 7.418 | 7.618 | 403.120 | 500.000 | -19.4 |
| Aroclor-1260-2 | 7.771 | 7.672 | 7.872 | 388.800 | 500.000 | -22.2 |
| Aroclor-1260-3 | 8.132 | 8.033 | 8.233 | 392.700 | 500.000 | -21.5 |
| Aroclor-1260-4 | 8.369 | 8.271 | 8.471 | 401.410 | 500.000 | -19.7 |
| Aroclor-1260-5 | 8.706 | 8.608 | 8.808 | 414.930 | 500.000 | -17.0 |
| Decachlorobiphenyl | 10.662 | 10.561 | 10.761 | 45.470 | 50.000 | -9.1 |
| Tetrachloro-m-xylene | 4.752 | 4.653 | 4.853 | 51.050 | 50.000 | 2.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/26/2024 09/26/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/02/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PP067441.D **Time Analyzed:** 20:39

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.160 | 5.064 | 5.264 | 461.960 | 500.000 | -7.6 |
| Aroclor-1016-2 | 5.180 | 5.084 | 5.284 | 464.100 | 500.000 | -7.2 |
| Aroclor-1016-3 | 5.361 | 5.265 | 5.465 | 487.090 | 500.000 | -2.6 |
| Aroclor-1016-4 | 5.400 | 5.304 | 5.504 | 473.080 | 500.000 | -5.4 |
| Aroclor-1016-5 | 5.619 | 5.524 | 5.724 | 488.330 | 500.000 | -2.3 |
| Aroclor-1260-1 | 6.664 | 6.569 | 6.769 | 426.610 | 500.000 | -14.7 |
| Aroclor-1260-2 | 6.850 | 6.755 | 6.955 | 421.090 | 500.000 | -15.8 |
| Aroclor-1260-3 | 7.008 | 6.913 | 7.113 | 413.950 | 500.000 | -17.2 |
| Aroclor-1260-4 | 7.483 | 7.388 | 7.588 | 420.960 | 500.000 | -15.8 |
| Aroclor-1260-5 | 7.721 | 7.626 | 7.826 | 422.840 | 500.000 | -15.4 |
| Decachlorobiphenyl | 9.217 | 9.126 | 9.326 | 46.090 | 50.000 | -7.8 |
| Tetrachloro-m-xylene | 4.051 | 3.953 | 4.153 | 50.060 | 50.000 | 0.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/03/2024 **Initial Calibration Date(s):** 09/26/2024 09/26/2024

**Continuing Calib Time:** 02:06 **Initial Calibration Time(s):** 16:35 23:51

**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) | 6.00 | 6.00 | 5.90 | 6.10 | 0.00 |
| 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 | 0.01 |
| Aroclor-1260-1 | (1) | 7.52 | 7.52 | 7.42 | 7.62 | 0.00 |
| Aroclor-1260-2 | (2) | 7.77 | 7.77 | 7.67 | 7.87 | 0.00 |
| Aroclor-1260-3 | (3) | 8.13 | 8.13 | 8.03 | 8.23 | 0.00 |
| Aroclor-1260-4 | (4) | 8.37 | 8.37 | 8.27 | 8.47 | 0.00 |
| Aroclor-1260-5 | (5) | 8.71 | 8.71 | 8.61 | 8.81 | 0.00 |
| Tetrachloro-m-xylene | | 4.75 | 4.75 | 4.65 | 4.85 | 0.00 |
| Decachlorobiphenyl | | 10.66 | 10.66 | 10.56 | 10.76 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/03/2024 **Initial Calibration Date(s):** 09/26/2024 09/26/2024

**Continuing Calib Time:** 02:06 **Initial Calibration Time(s):** 16:35 23:51

**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 | 5.37 | 5.27 | 5.47 | 0.01 |
| 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 | 6.67 | 6.57 | 6.77 | 0.01 |
| Aroclor-1260-2 | (2) | 6.85 | 6.86 | 6.76 | 6.96 | 0.01 |
| Aroclor-1260-3 | (3) | 7.01 | 7.01 | 6.91 | 7.11 | 0.00 |
| Aroclor-1260-4 | (4) | 7.48 | 7.49 | 7.39 | 7.59 | 0.01 |
| Aroclor-1260-5 | (5) | 7.72 | 7.73 | 7.63 | 7.83 | 0.01 |
| Tetrachloro-m-xylene | | 4.05 | 4.05 | 3.95 | 4.15 | 0.00 |
| Decachlorobiphenyl | | 9.22 | 9.23 | 9.13 | 9.33 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/26/2024 09/26/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 10/03/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PP067452.D **Time Analyzed:** 02:06

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.916 | 5.817 | 6.017 | 471.040 | 500.000 | -5.8 |
| Aroclor-1016-2 | 5.938 | 5.840 | 6.040 | 477.400 | 500.000 | -4.5 |
| Aroclor-1016-3 | 6.002 | 5.903 | 6.103 | 481.710 | 500.000 | -3.7 |
| Aroclor-1016-4 | 6.100 | 6.002 | 6.202 | 473.420 | 500.000 | -5.3 |
| Aroclor-1016-5 | 6.395 | 6.296 | 6.496 | 479.060 | 500.000 | -4.2 |
| Aroclor-1260-1 | 7.518 | 7.418 | 7.618 | 439.290 | 500.000 | -12.1 |
| Aroclor-1260-2 | 7.771 | 7.672 | 7.872 | 419.560 | 500.000 | -16.1 |
| Aroclor-1260-3 | 8.132 | 8.033 | 8.233 | 424.750 | 500.000 | -15.1 |
| Aroclor-1260-4 | 8.370 | 8.271 | 8.471 | 433.350 | 500.000 | -13.3 |
| Aroclor-1260-5 | 8.707 | 8.608 | 8.808 | 438.610 | 500.000 | -12.3 |
| Decachlorobiphenyl | 10.661 | 10.561 | 10.761 | 48.020 | 50.000 | -4.0 |
| Tetrachloro-m-xylene | 4.752 | 4.653 | 4.853 | 51.400 | 50.000 | 2.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/26/2024 09/26/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 10/03/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PP067452.D **Time Analyzed:** 02:06

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.160 | 5.064 | 5.264 | 469.300 | 500.000 | -6.1 |
| Aroclor-1016-2 | 5.180 | 5.084 | 5.284 | 523.630 | 500.000 | 4.7 |
| Aroclor-1016-3 | 5.361 | 5.265 | 5.465 | 513.240 | 500.000 | 2.6 |
| Aroclor-1016-4 | 5.400 | 5.304 | 5.504 | 494.490 | 500.000 | -1.1 |
| Aroclor-1016-5 | 5.619 | 5.524 | 5.724 | 514.710 | 500.000 | 2.9 |
| Aroclor-1260-1 | 6.663 | 6.569 | 6.769 | 449.540 | 500.000 | -10.1 |
| Aroclor-1260-2 | 6.849 | 6.755 | 6.955 | 450.550 | 500.000 | -9.9 |
| Aroclor-1260-3 | 7.007 | 6.913 | 7.113 | 445.980 | 500.000 | -10.8 |
| Aroclor-1260-4 | 7.482 | 7.388 | 7.588 | 458.770 | 500.000 | -8.2 |
| Aroclor-1260-5 | 7.720 | 7.626 | 7.826 | 463.040 | 500.000 | -7.4 |
| Decachlorobiphenyl | 9.217 | 9.126 | 9.326 | 49.610 | 50.000 | -0.8 |
| Tetrachloro-m-xylene | 4.051 | 3.953 | 4.153 | 50.720 | 50.000 | 1.4 |

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



# Analytical Sequence

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **Instrument ID:** ECD_P

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 09/26/2024 09/26/2024

**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 | 09/26/2024 | 16:19 | PP067251.D | 10.66 | 4.75 |
| AR1660ICC1000 | AR1660ICC1000 | 09/26/2024 | 16:35 | PP067252.D | 10.66 | 4.75 |
| AR1660ICC750 | AR1660ICC750 | 09/26/2024 | 16:51 | PP067253.D | 10.66 | 4.75 |
| AR1660ICC500 | AR1660ICC500 | 09/26/2024 | 17:08 | PP067254.D | 10.66 | 4.75 |
| AR1660ICC250 | AR1660ICC250 | 09/26/2024 | 17:24 | PP067255.D | 10.66 | 4.75 |
| AR1660ICC050 | AR1660ICC050 | 09/26/2024 | 17:40 | PP067256.D | 10.66 | 4.75 |
| AR1221ICC500 | AR1221ICC500 | 09/26/2024 | 17:56 | PP067257.D | 10.66 | 4.75 |
| AR1232ICC500 | AR1232ICC500 | 09/26/2024 | 18:12 | PP067258.D | 10.66 | 4.75 |
| AR1242ICC1000 | AR1242ICC1000 | 09/26/2024 | 18:28 | PP067259.D | 10.67 | 4.75 |
| AR1242ICC750 | AR1242ICC750 | 09/26/2024 | 18:45 | PP067260.D | 10.66 | 4.75 |
| AR1242ICC500 | AR1242ICC500 | 09/26/2024 | 19:01 | PP067261.D | 10.66 | 4.75 |
| AR1242ICC250 | AR1242ICC250 | 09/26/2024 | 19:17 | PP067262.D | 10.66 | 4.75 |
| AR1242ICC050 | AR1242ICC050 | 09/26/2024 | 19:33 | PP067263.D | 10.66 | 4.75 |
| AR1248ICC1000 | AR1248ICC1000 | 09/26/2024 | 19:49 | PP067264.D | 10.66 | 4.75 |
| AR1248ICC750 | AR1248ICC750 | 09/26/2024 | 20:05 | PP067265.D | 10.66 | 4.75 |
| AR1248ICC500 | AR1248ICC500 | 09/26/2024 | 20:21 | PP067266.D | 10.66 | 4.75 |
| AR1248ICC250 | AR1248ICC250 | 09/26/2024 | 20:38 | PP067267.D | 10.66 | 4.75 |
| AR1248ICC050 | AR1248ICC050 | 09/26/2024 | 20:54 | PP067268.D | 10.67 | 4.75 |
| AR1254ICC1000 | AR1254ICC1000 | 09/26/2024 | 21:10 | PP067269.D | 10.66 | 4.75 |
| AR1254ICC750 | AR1254ICC750 | 09/26/2024 | 21:26 | PP067270.D | 10.66 | 4.75 |
| AR1254ICC500 | AR1254ICC500 | 09/26/2024 | 21:42 | PP067271.D | 10.66 | 4.75 |
| AR1254ICC250 | AR1254ICC250 | 09/26/2024 | 21:58 | PP067272.D | 10.66 | 4.75 |
| AR1254ICC050 | AR1254ICC050 | 09/26/2024 | 22:14 | PP067273.D | 10.66 | 4.75 |
| AR1262ICC500 | AR1262ICC500 | 09/26/2024 | 22:30 | PP067274.D | 10.66 | 4.75 |
| AR1268ICC1000 | AR1268ICC1000 | 09/26/2024 | 22:47 | PP067275.D | 10.66 | 4.75 |
| AR1268ICC750 | AR1268ICC750 | 09/26/2024 | 23:03 | PP067276.D | 10.66 | 4.75 |
| AR1268ICC500 | AR1268ICC500 | 09/26/2024 | 23:19 | PP067277.D | 10.66 | 4.75 |
| AR1268ICC250 | AR1268ICC250 | 09/26/2024 | 23:35 | PP067278.D | 10.66 | 4.75 |
| AR1268ICC050 | AR1268ICC050 | 09/26/2024 | 23:51 | PP067279.D | 10.66 | 4.75 |
| AR1660CCC500 | AR1660CCC500 | 10/02/2024 | 13:34 | PP067426.D | 10.66 | 4.75 |
| I.BLK | I.BLK | 10/02/2024 | 14:38 | PP067430.D | 10.66 | 4.75 |
| PB163832BL | PB163832BL | 10/02/2024 | 14:54 | PP067431.D | 10.66 | 4.75 |
| PB163832BS | PB163832BS | 10/02/2024 | 15:11 | PP067432.D | 10.66 | 4.75 |
| OR-03-100124MS | P4255-01MS | 10/02/2024 | 16:15 | PP067436.D | 10.66 | 4.75 |
| OR-03-100124MSD | P4255-01MSD | 10/02/2024 | 16:31 | PP067437.D | 10.66 | 4.75 |
| AR1660CCC500 | AR1660CCC500 | 10/02/2024 | 20:39 | PP067441.D | 10.66 | 4.75 |
| I.BLK | I.BLK | 10/02/2024 | 22:59 | PP067445.D | 10.66 | 4.75 |
| Chamberlain Ave | P4258-03 | 10/02/2024 | 23:15 | PP067446.D | 10.66 | 4.75 |
| AR1660CCC500 | AR1660CCC500 | 10/03/2024 | 02:06 | PP067452.D | 10.66 | 4.75 |
| I.BLK | I.BLK | 10/03/2024 | 03:10 | PP067456.D | 10.66 | 4.75 |

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Fax : 908 789 8922



# Analytical Sequence

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **Instrument ID:** ECD_P

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 09/26/2024 09/26/2024

**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 | 09/26/2024 | 16:19 | PP067251.D | 9.23 | 4.05 |
| AR1660ICC1000 | AR1660ICC1000 | 09/26/2024 | 16:35 | PP067252.D | 9.23 | 4.05 |
| AR1660ICC750 | AR1660ICC750 | 09/26/2024 | 16:51 | PP067253.D | 9.23 | 4.05 |
| AR1660ICC500 | AR1660ICC500 | 09/26/2024 | 17:08 | PP067254.D | 9.23 | 4.05 |
| AR1660ICC250 | AR1660ICC250 | 09/26/2024 | 17:24 | PP067255.D | 9.22 | 4.05 |
| AR1660ICC050 | AR1660ICC050 | 09/26/2024 | 17:40 | PP067256.D | 9.23 | 4.05 |
| AR1221ICC500 | AR1221ICC500 | 09/26/2024 | 17:56 | PP067257.D | 9.23 | 4.05 |
| AR1232ICC500 | AR1232ICC500 | 09/26/2024 | 18:12 | PP067258.D | 9.22 | 4.05 |
| AR1242ICC1000 | AR1242ICC1000 | 09/26/2024 | 18:28 | PP067259.D | 9.23 | 4.05 |
| AR1242ICC750 | AR1242ICC750 | 09/26/2024 | 18:45 | PP067260.D | 9.23 | 4.05 |
| AR1242ICC500 | AR1242ICC500 | 09/26/2024 | 19:01 | PP067261.D | 9.23 | 4.05 |
| AR1242ICC250 | AR1242ICC250 | 09/26/2024 | 19:17 | PP067262.D | 9.23 | 4.05 |
| AR1242ICC050 | AR1242ICC050 | 09/26/2024 | 19:33 | PP067263.D | 9.23 | 4.05 |
| AR1248ICC1000 | AR1248ICC1000 | 09/26/2024 | 19:49 | PP067264.D | 9.22 | 4.05 |
| AR1248ICC750 | AR1248ICC750 | 09/26/2024 | 20:05 | PP067265.D | 9.23 | 4.05 |
| AR1248ICC500 | AR1248ICC500 | 09/26/2024 | 20:21 | PP067266.D | 9.22 | 4.05 |
| AR1248ICC250 | AR1248ICC250 | 09/26/2024 | 20:38 | PP067267.D | 9.23 | 4.05 |
| AR1248ICC050 | AR1248ICC050 | 09/26/2024 | 20:54 | PP067268.D | 9.23 | 4.05 |
| AR1254ICC1000 | AR1254ICC1000 | 09/26/2024 | 21:10 | PP067269.D | 9.23 | 4.05 |
| AR1254ICC750 | AR1254ICC750 | 09/26/2024 | 21:26 | PP067270.D | 9.23 | 4.05 |
| AR1254ICC500 | AR1254ICC500 | 09/26/2024 | 21:42 | PP067271.D | 9.23 | 4.05 |
| AR1254ICC250 | AR1254ICC250 | 09/26/2024 | 21:58 | PP067272.D | 9.23 | 4.05 |
| AR1254ICC050 | AR1254ICC050 | 09/26/2024 | 22:14 | PP067273.D | 9.23 | 4.05 |
| AR1262ICC500 | AR1262ICC500 | 09/26/2024 | 22:30 | PP067274.D | 9.23 | 4.05 |
| AR1268ICC1000 | AR1268ICC1000 | 09/26/2024 | 22:47 | PP067275.D | 9.23 | 4.05 |
| AR1268ICC750 | AR1268ICC750 | 09/26/2024 | 23:03 | PP067276.D | 9.23 | 4.05 |
| AR1268ICC500 | AR1268ICC500 | 09/26/2024 | 23:19 | PP067277.D | 9.23 | 4.05 |
| AR1268ICC250 | AR1268ICC250 | 09/26/2024 | 23:35 | PP067278.D | 9.23 | 4.05 |
| AR1268ICC050 | AR1268ICC050 | 09/26/2024 | 23:51 | PP067279.D | 9.23 | 4.05 |
| AR1660CCC500 | AR1660CCC500 | 10/02/2024 | 13:34 | PP067426.D | 9.22 | 4.05 |
| I.BLK | I.BLK | 10/02/2024 | 14:38 | PP067430.D | 9.22 | 4.05 |
| PB163832BL | PB163832BL | 10/02/2024 | 14:54 | PP067431.D | 9.22 | 4.05 |
| PB163832BS | PB163832BS | 10/02/2024 | 15:11 | PP067432.D | 9.22 | 4.05 |
| OR-03-100124MS | P4255-01MS | 10/02/2024 | 16:15 | PP067436.D | 9.22 | 4.05 |
| OR-03-100124MSD | P4255-01MSD | 10/02/2024 | 16:31 | PP067437.D | 9.22 | 4.05 |
| AR1660CCC500 | AR1660CCC500 | 10/02/2024 | 20:39 | PP067441.D | 9.22 | 4.05 |
| I.BLK | I.BLK | 10/02/2024 | 22:59 | PP067445.D | 9.22 | 4.05 |
| Chamberlain Ave | P4258-03 | 10/02/2024 | 23:15 | PP067446.D | 9.22 | 4.05 |
| AR1660CCC500 | AR1660CCC500 | 10/03/2024 | 02:06 | PP067452.D | 9.22 | 4.05 |
| I.BLK | I.BLK | 10/03/2024 | 03:10 | PP067456.D | 9.22 | 4.05 |

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

# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB163832BS

Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab Sample ID: PB163832BS Date(s) Analyzed: 10/02/2024 10/02/2024

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 PP067432.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.916 | 5.866 | 5.966 | 120 | | |
| | 2 | 5.938 | 5.888 | 5.988 | 120 | | |
| | 3 | 6.002 | 5.952 | 6.052 | 122 | | |
| COLUMN 1 | 4 | 6.1 | 6.05 | 6.15 | 124 | | |
| | 5 | 6.395 | 6.345 | 6.445 | 122 | 122 | |
| | 1 | 5.161 | 5.111 | 5.211 | 115 | | |
| | 2 | 5.181 | 5.131 | 5.231 | 114 | | |
| | 3 | 5.362 | 5.312 | 5.412 | 116 | | |
| | 4 | 5.401 | 5.351 | 5.451 | 117 | | |
| COLUMN 2 | 5 | 5.62 | 5.57 | 5.67 | 116 | 116 | 5.04 |
| Aroclor-1260 | 1 | 7.518 | 7.468 | 7.568 | 113 | | |
| | 2 | 7.771 | 7.721 | 7.821 | 113 | | |
| | 3 | 8.133 | 8.083 | 8.183 | 107 | | |
| COLUMN 1 | 4 | 8.37 | 8.32 | 8.42 | 109 | | |
| | 5 | 8.707 | 8.657 | 8.757 | 106 | 110 | |
| | 1 | 6.664 | 6.614 | 6.714 | 110 | | |
| | 2 | 6.851 | 6.801 | 6.901 | 107 | | |
| | 3 | 7.009 | 6.959 | 7.059 | 109 | | |
| | 4 | 7.484 | 7.434 | 7.534 | 108 | | |
| COLUMN 2 | 5 | 7.722 | 7.672 | 7.772 | 106 | 108 | 1.83 |

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
OR-03-100124MS

Contract: ROMA02
Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258
Lab Sample ID: P4255-01MS Date(s) Analyzed: 10/02/2024 10/02/2024
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 PP067436.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.917 | 5.867 | 5.967 | 143 | | |
| | 2 | 5.94 | 5.89 | 5.99 | 139 | | |
| | 3 | 6.004 | 5.954 | 6.054 | 149 | | |
| COLUMN 1 | 4 | 6.101 | 6.051 | 6.151 | 150 | | |
| | 5 | 6.395 | 6.345 | 6.445 | 141 | 144 | |
| | 1 | 5.161 | 5.111 | 5.211 | 137 | | |
| | 2 | 5.181 | 5.131 | 5.231 | 126 | | |
| | 3 | 5.361 | 5.311 | 5.411 | 133 | | |
| | 4 | 5.401 | 5.351 | 5.451 | 131 | | |
| COLUMN 2 | 5 | 5.619 | 5.569 | 5.669 | 113 | 128 | 11.76 |
| Aroclor-1260 | 1 | 7.519 | 7.469 | 7.569 | 114 | | |
| | 2 | 7.772 | 7.722 | 7.822 | 142 | | |
| | 3 | 8.134 | 8.084 | 8.184 | 104 | | |
| COLUMN 1 | 4 | 8.372 | 8.322 | 8.422 | 111 | | |
| | 5 | 8.708 | 8.658 | 8.758 | 110 | 116 | |
| | 1 | 6.664 | 6.614 | 6.714 | 105 | | |
| | 2 | 6.85 | 6.8 | 6.9 | 103 | | |
| | 3 | 7.008 | 6.958 | 7.058 | 102 | | |
| | 4 | 7.483 | 7.433 | 7.533 | 102 | | |
| COLUMN 2 | 5 | 7.721 | 7.671 | 7.771 | 103 | 103 | 11.87 |

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



IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
OR-03-100124MSD

Contract: ROMA02
Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258
Lab Sample ID: P4255-01MSD Date(s) Analyzed: 10/02/2024 10/02/2024
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 PP067437.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.915 | 5.865 | 5.965 | 139 | | |
| | 2 | 5.938 | 5.888 | 5.988 | 141 | | |
| | 3 | 6.002 | 5.952 | 6.052 | 146 | | |
| COLUMN 1 | 4 | 6.099 | 6.049 | 6.149 | 152 | | |
| | 5 | 6.394 | 6.344 | 6.444 | 137 | 143 | |
| | 1 | 5.16 | 5.11 | 5.21 | 135 | | |
| | 2 | 5.18 | 5.13 | 5.23 | 125 | | |
| | 3 | 5.361 | 5.311 | 5.411 | 133 | | |
| | 4 | 5.4 | 5.35 | 5.45 | 130 | | |
| COLUMN 2 | 5 | 5.618 | 5.568 | 5.668 | 120 | 129 | 10.29 |
| Aroclor-1260 | 1 | 7.518 | 7.468 | 7.568 | 108 | | |
| | 2 | 7.77 | 7.72 | 7.82 | 104 | | |
| | 3 | 8.132 | 8.082 | 8.182 | 99.3 | | |
| COLUMN 1 | 4 | 8.37 | 8.32 | 8.42 | 104 | | |
| | 5 | 8.706 | 8.656 | 8.756 | 108 | 104 | |
| | 1 | 6.664 | 6.614 | 6.714 | 104 | | |
| | 2 | 6.85 | 6.8 | 6.9 | 102 | | |
| | 3 | 7.008 | 6.958 | 7.058 | 103 | | |
| | 4 | 7.483 | 7.433 | 7.533 | 99.1 | | |
| COLUMN 2 | 5 | 7.721 | 7.671 | 7.771 | 101 | 102 | 1.94 |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP100224\
Data File : PP067446.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Oct 2024 23:15
Operator : YP\AJ
Sample : P4258-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/03/2024
Supervised By :Ankita Jodhani 10/03/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 00:20:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP092624.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Sep 27 06:59:05 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 | 4.050 | 19247595 | 21181524 | 14.320 | 14.176 |
| 2) SA | Decachlor... | 10.660 | 9.217 | 19020608 | 18624385 | 13.102 | 13.515m |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

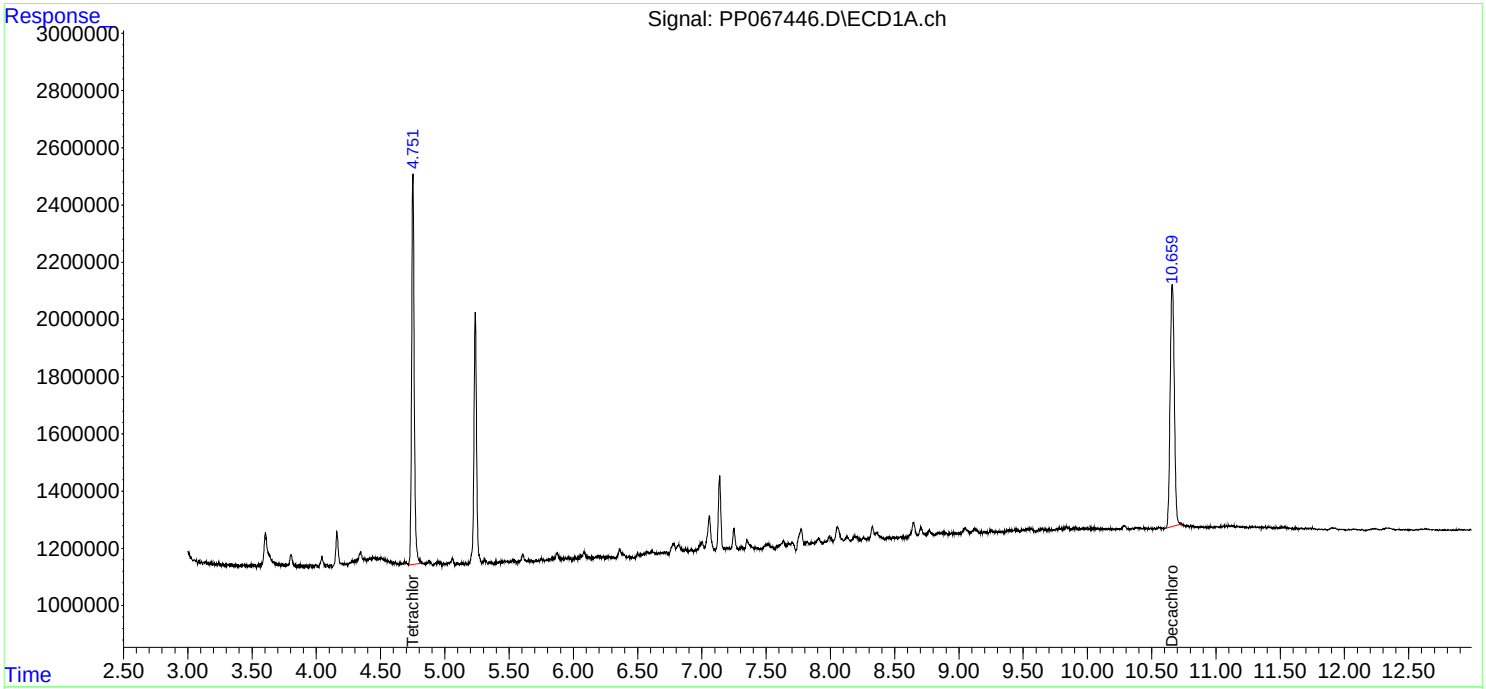
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP100224\
Data File : PP067446.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Oct 2024 23:15
Operator : YP\AJ
Sample : P4258-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

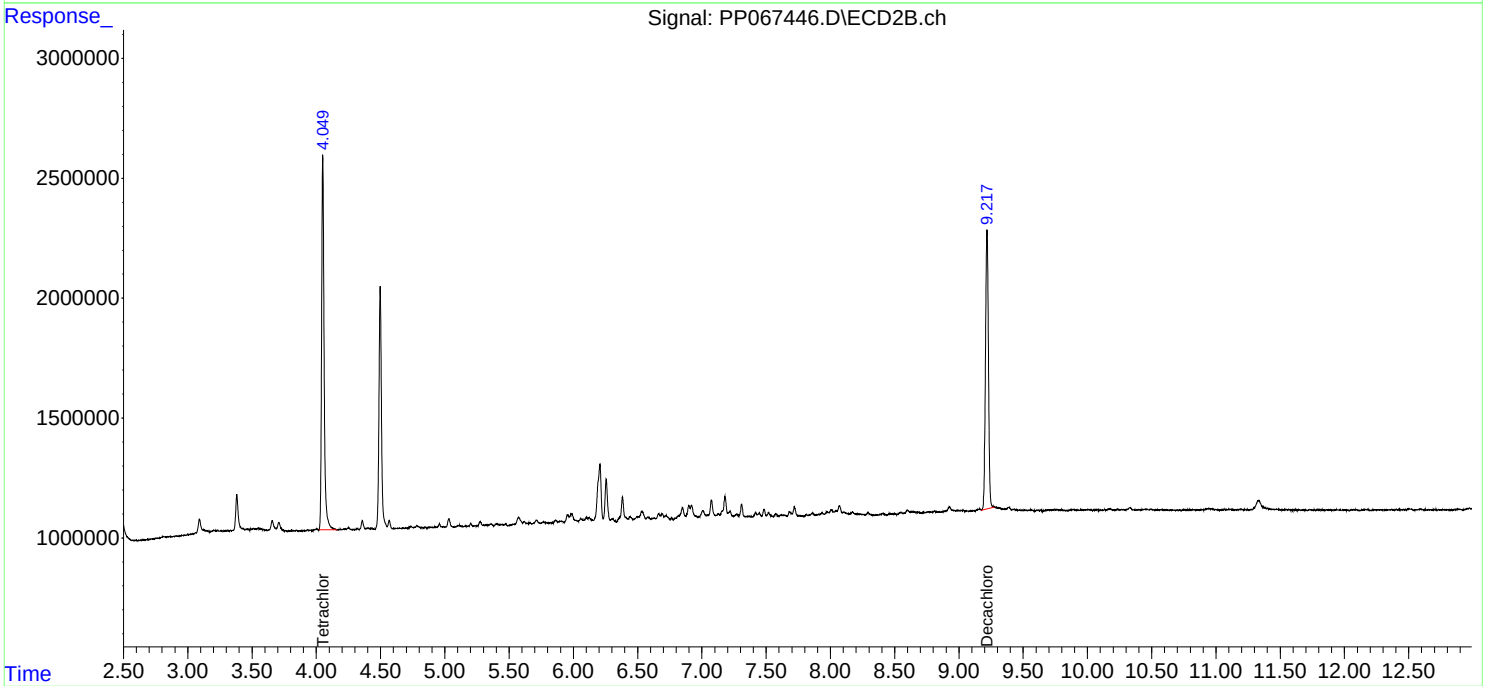
**Instrument :**
ECD_P
**ClientSampleId :**
Chamberlain Ave

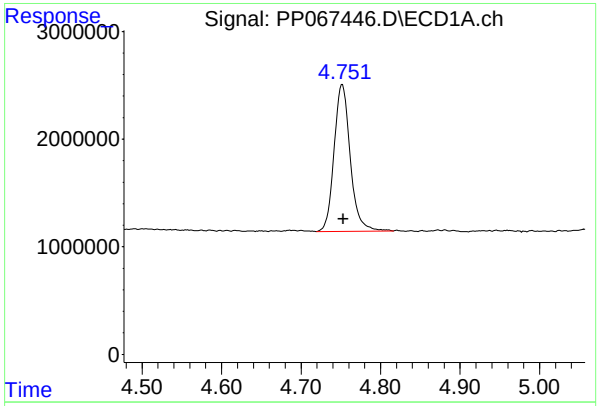
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/03/2024
Supervised By :Ankita Jodhani 10/03/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 00:20:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP092624.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Sep 27 06:59:05 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





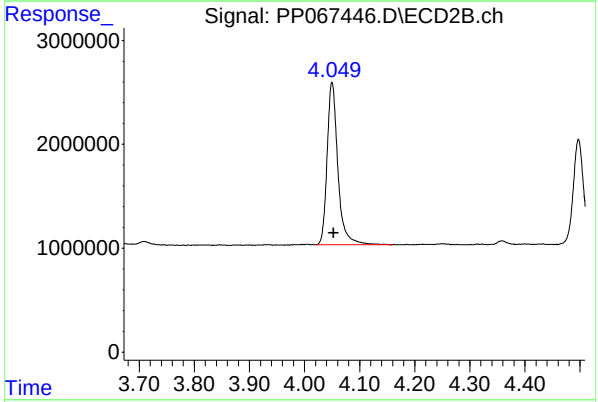

#1 Tetrachloro-m-xylene

R.T.: 4.752 min
Delta R.T.: -0.001 min
Response: 19247595
Conc: 14.32 ng/ml

**Instrument :**
ECD_P
**ClientSampleId :**
Chamberlain Ave

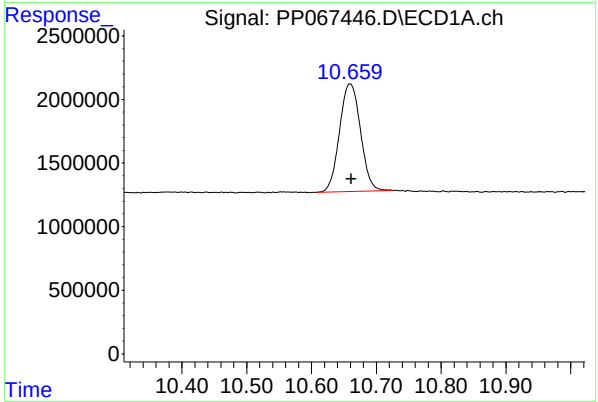
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/03/2024
Supervised By :Ankita Jodhani 10/03/2024



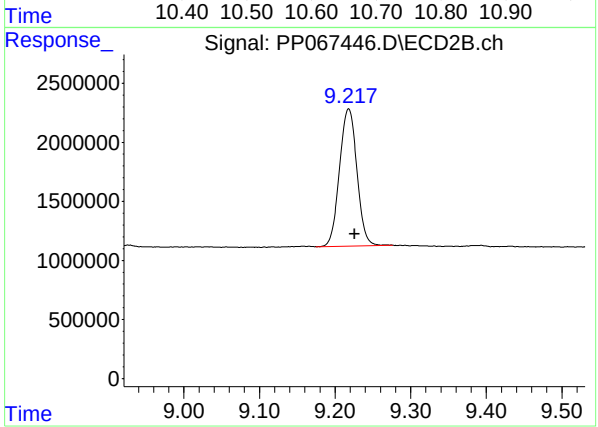

#1 Tetrachloro-m-xylene

R.T.: 4.050 min
Delta R.T.: -0.003 min
Response: 21181524
Conc: 14.18 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.660 min
Delta R.T.: -0.002 min
Response: 19020608
Conc: 13.10 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.217 min
Delta R.T.: -0.009 min
Response: 18624385
Conc: 13.52 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP100224\
Data File : PP067431.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Oct 2024 14:54
Operator : YP\AJ
Sample : PB163832BL
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
PB163832BL

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/03/2024
Supervised By :Ankita Jodhani 10/03/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 00:14:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP092624.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Sep 27 06:59:05 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 | 21682242 | 23816107 | 16.131 | 15.940 |
| 2) | SA Decachlor... | 10.657 | 9.218 | 24352858 | 22410498 | 16.775m | 16.263 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

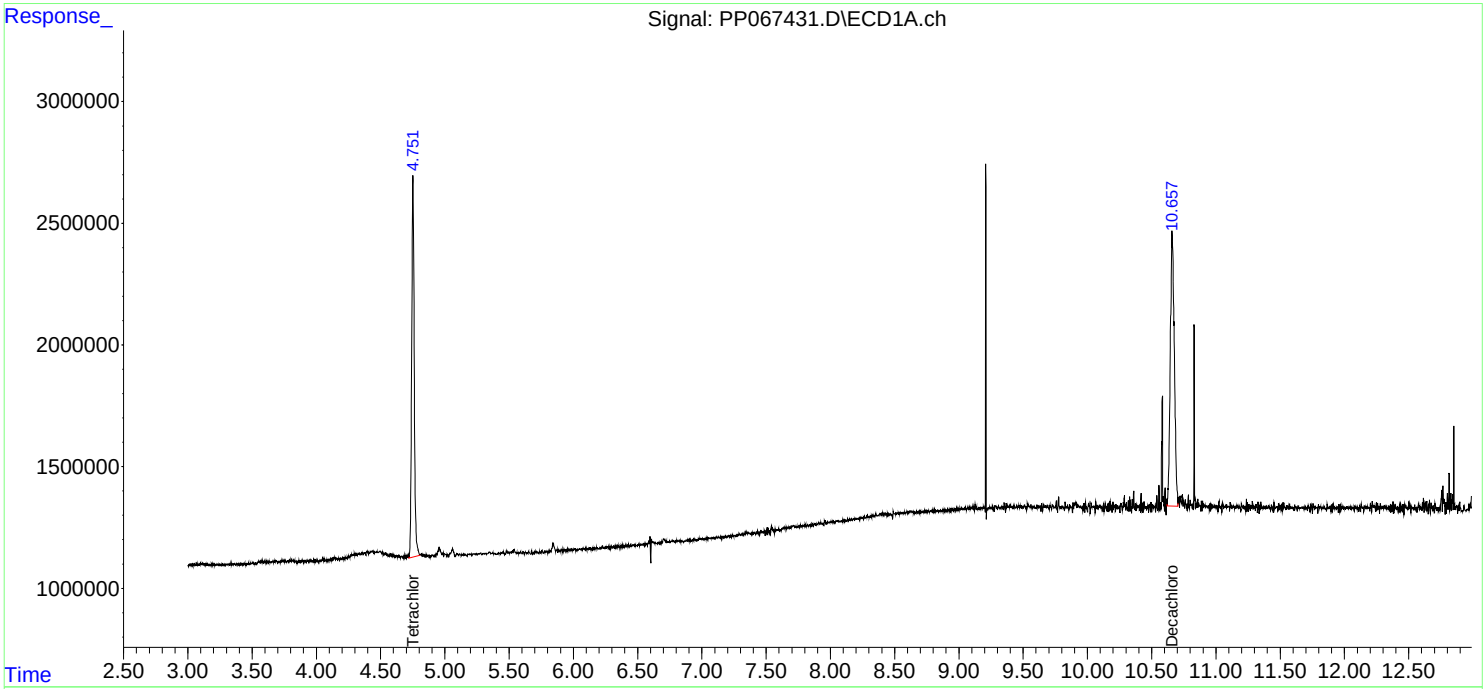
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP100224\
Data File : PP067431.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Oct 2024 14:54
Operator : YP\AJ
Sample : PB163832BL
Misc :
ALS Vial : 9 Sample Multiplier: 1

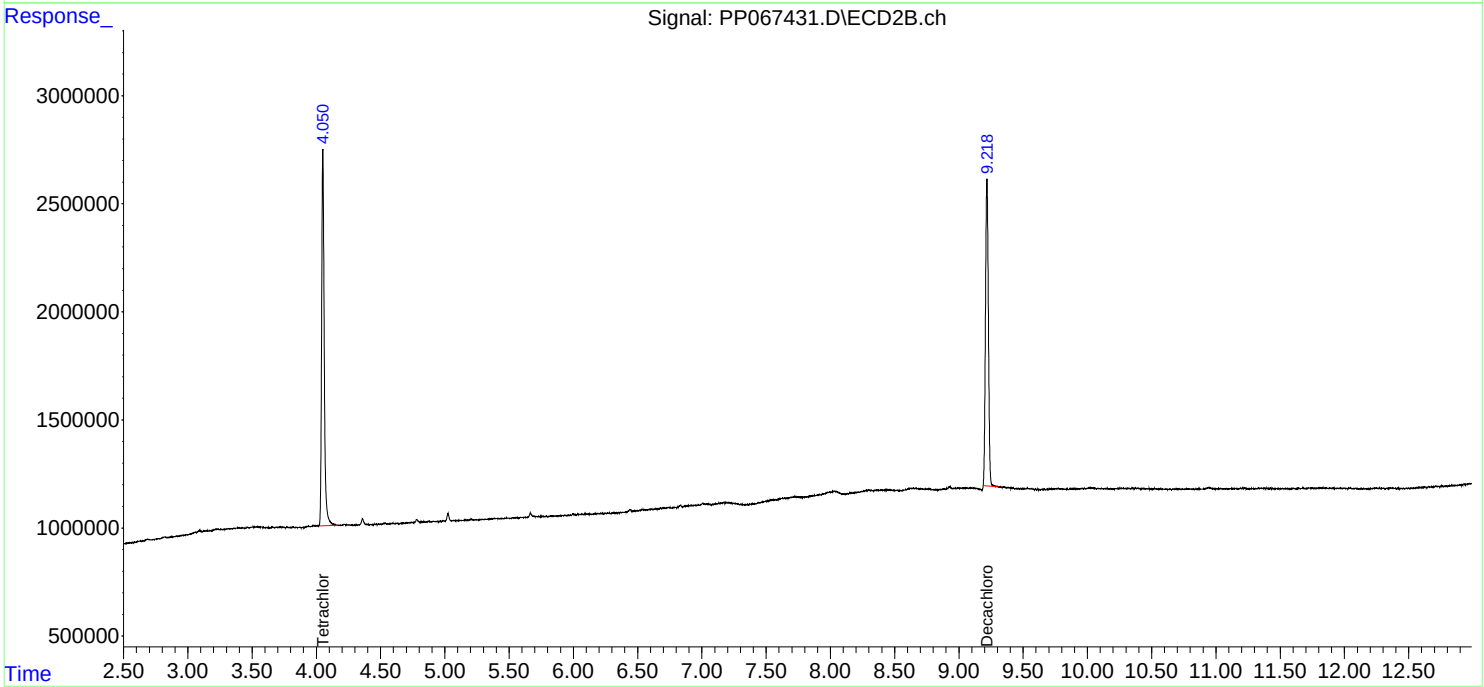
**Instrument :**
ECD_P
**ClientSampleId :**
PB163832BL

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/03/2024
Supervised By :Ankita Jodhani 10/03/2024

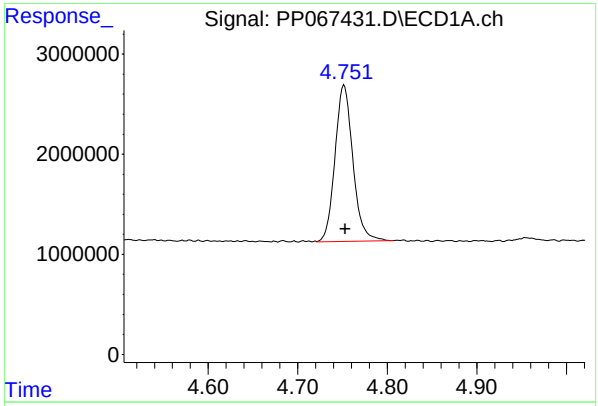
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 00:14:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP092624.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Sep 27 06:59:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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



11



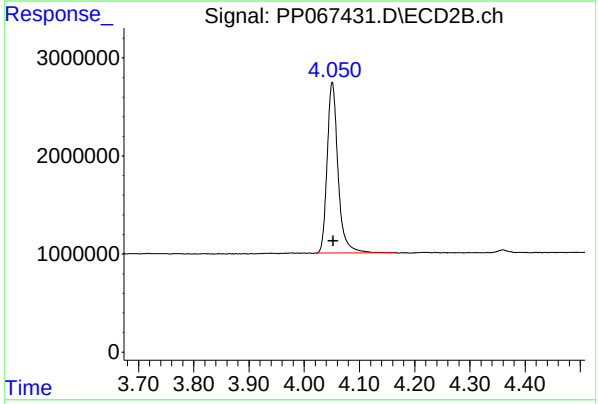

#1 Tetrachloro-m-xylene

R.T.: 4.752 min
Delta R.T.: -0.001 min
Response: 21682242
Conc: 16.13 ng/ml

**Instrument :**
ECD_P
**ClientSampleId :**
PB163832BL

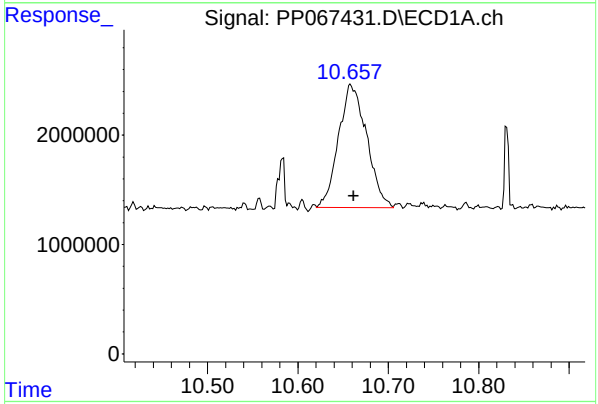
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/03/2024
Supervised By :Ankita Jodhani 10/03/2024



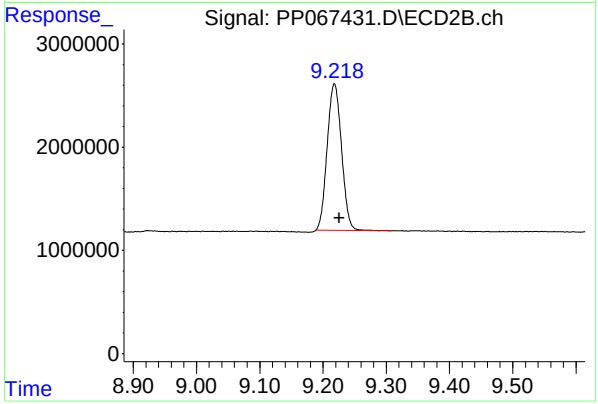

#1 Tetrachloro-m-xylene

R.T.: 4.051 min
Delta R.T.: -0.002 min
Response: 23816107
Conc: 15.94 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.657 min
Delta R.T.: -0.004 min
Response: 24352858
Conc: 16.78 ng/ml m




#2 Decachlorobiphenyl

R.T.: 9.218 min
Delta R.T.: -0.008 min
Response: 22410498
Conc: 16.26 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP100224\
Data File : PP067432.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Oct 2024 15:11
Operator : YP\AJ
Sample : PB163832BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
PB163832BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/09/2024
Supervised By :Ankita Jodhani 10/09/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 00:15:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP092624.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Sep 27 06:59:05 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 | 4.052 | 23399278 | 25840649 | 17.409 | 17.295 |
| 2) | SA Decachlor... | 10.662 | 9.219 | 23381146 | 22631199 | 16.106 | 16.423m |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.916 | 5.161 | 17186793 | 17803419 | 360.463 | 345.169 |
| 4) | L1 AR-1016-2 | 5.938 | 5.181 | 24974689 | 24387600 | 360.688 | 342.984 |
| 5) | L1 AR-1016-3 | 6.002 | 5.362 | 16327890 | 13833666 | 365.521 | 347.599 |
| 6) | L1 AR-1016-4 | 6.100 | 5.401 | 13357175 | 12165052 | 371.700 | 352.313 |
| 7) | L1 AR-1016-5 | 6.395 | 5.620 | 13547447 | 15009555 | 367.641 | 349.791 |
| 31) | L7 AR-1260-1 | 7.518 | 6.664 | 26817688 | 26988604 | 340.402 | 329.920 |
| 32) | L7 AR-1260-2 | 7.771 | 6.851 | 30983700 | 30215526 | 339.936 | 321.632 |
| 33) | L7 AR-1260-3 | 8.133 | 7.009 | 20368974 | 29604337 | 322.446 | 326.775 |
| 34) | L7 AR-1260-4 | 8.370 | 7.484 | 24759097 | 21570793 | 327.912 | 323.494 |
| 35) | L7 AR-1260-5 | 8.707 | 7.722 | 41214816 | 46202267 | 318.321 | 317.355 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

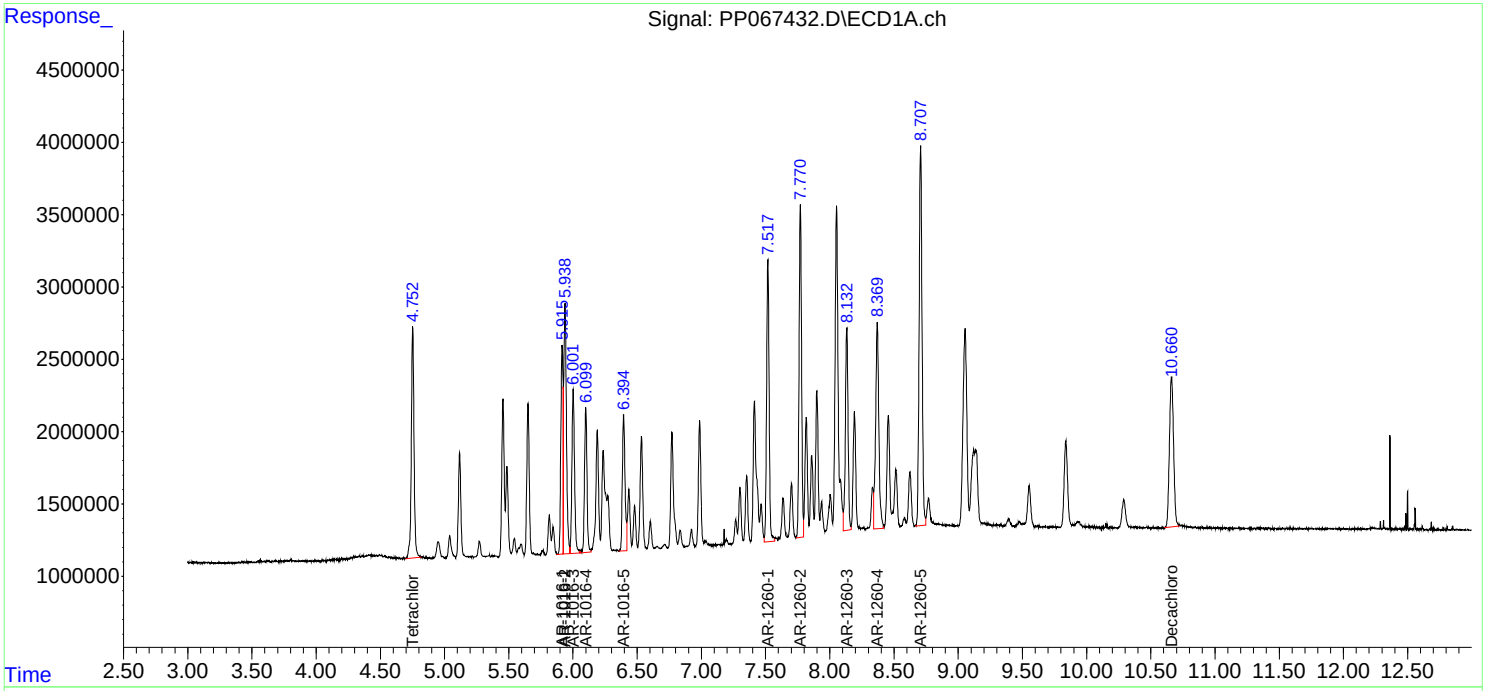
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP100224\
Data File : PP067432.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Oct 2024 15:11
Operator : YP\AJ
Sample : PB163832BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

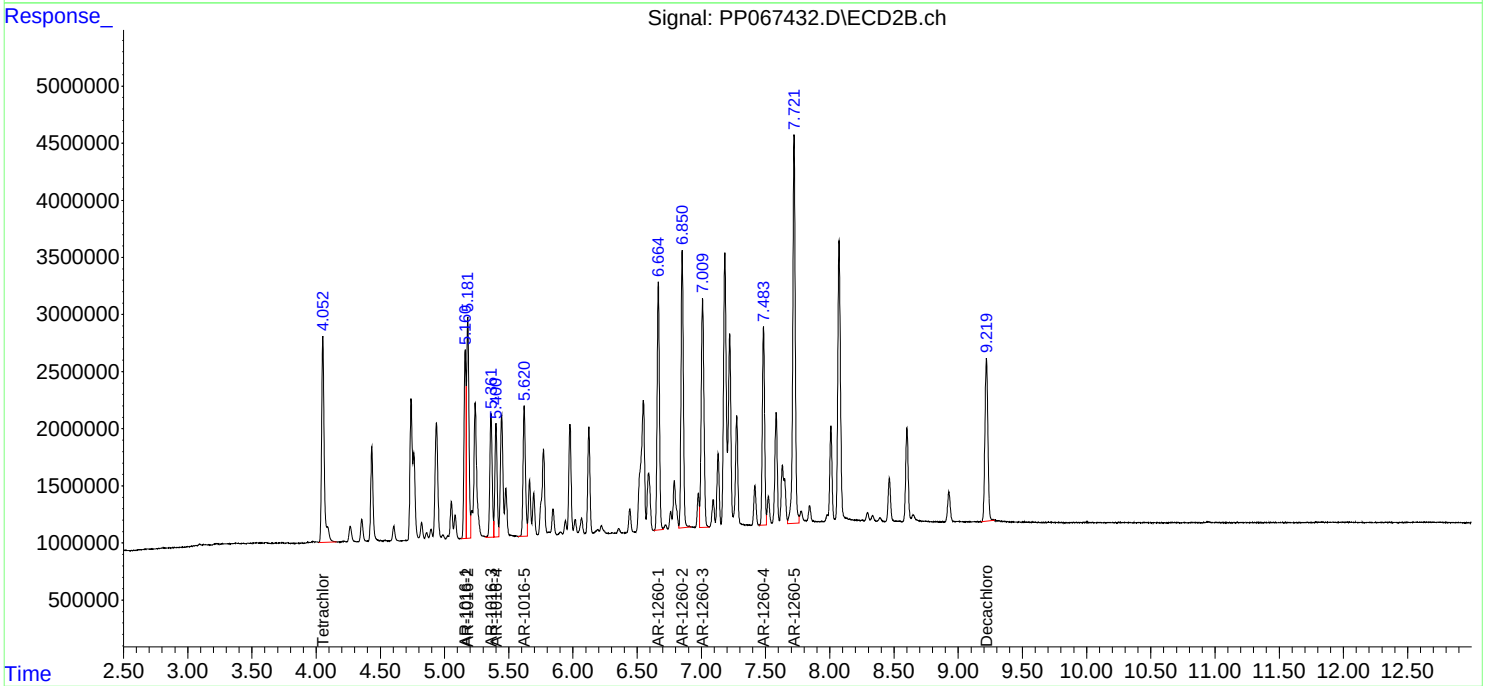
**Instrument :**
ECD_P
**ClientSampleId :**
PB163832BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/09/2024
Supervised By :Ankita Jodhani 10/09/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 00:15:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP092624.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Sep 27 06:59:05 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\PP100224\
Data File : PP067436.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Oct 2024 16:15
Operator : YP\AJ
Sample : P4255-01MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
OR-03-100124MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/03/2024
Supervised By :Ankita Jodhani 10/03/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 00:16:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP092624.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Sep 27 06:59:05 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... | 4.753 | 4.051 | 22968192 | 22282459 | 17.088 | 14.913 |
| 2) SA | Decachlor... | 10.662 | 9.219 | 19614691 | 16944716 | 13.511 | 12.296 |
| | Target Compounds | | | | | | |
| 3) L1 | AR-1016-1 | 5.917 | 5.161 | 18026831 | 18678662 | 378.082 | 362.138 |
| 4) L1 | AR-1016-2 | 5.940 | 5.181 | 25556414 | 23774507 | 369.089 | 334.362 |
| 5) L1 | AR-1016-3 | 6.004 | 5.361 | 17594116 | 14012569 | 393.867 | 352.094 |
| 6) L1 | AR-1016-4 | 6.101 | 5.401 | 14230416 | 11947893 | 396.001 | 346.024 |
| 7) L1 | AR-1016-5 | 6.395 | 5.619 | 13802814 | 12852834 | 374.570 | 299.530m |
| 31) L7 | AR-1260-1 | 7.519 | 6.664 | 23724967 | 22844565 | 301.145 | 279.261 |
| 32) L7 | AR-1260-2 | 7.772 | 6.850 | 34163381 | 25528871 | 374.822 | 271.744 # |
| 33) L7 | AR-1260-3 | 8.134 | 7.008 | 17467084 | 24399736 | 276.509 | 269.326 |
| 34) L7 | AR-1260-4 | 8.372 | 7.483 | 22104076 | 18061975 | 292.748 | 270.873 |
| 35) L7 | AR-1260-5 | 8.708 | 7.721 | 37826978 | 39795389 | 292.156 | 273.348 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

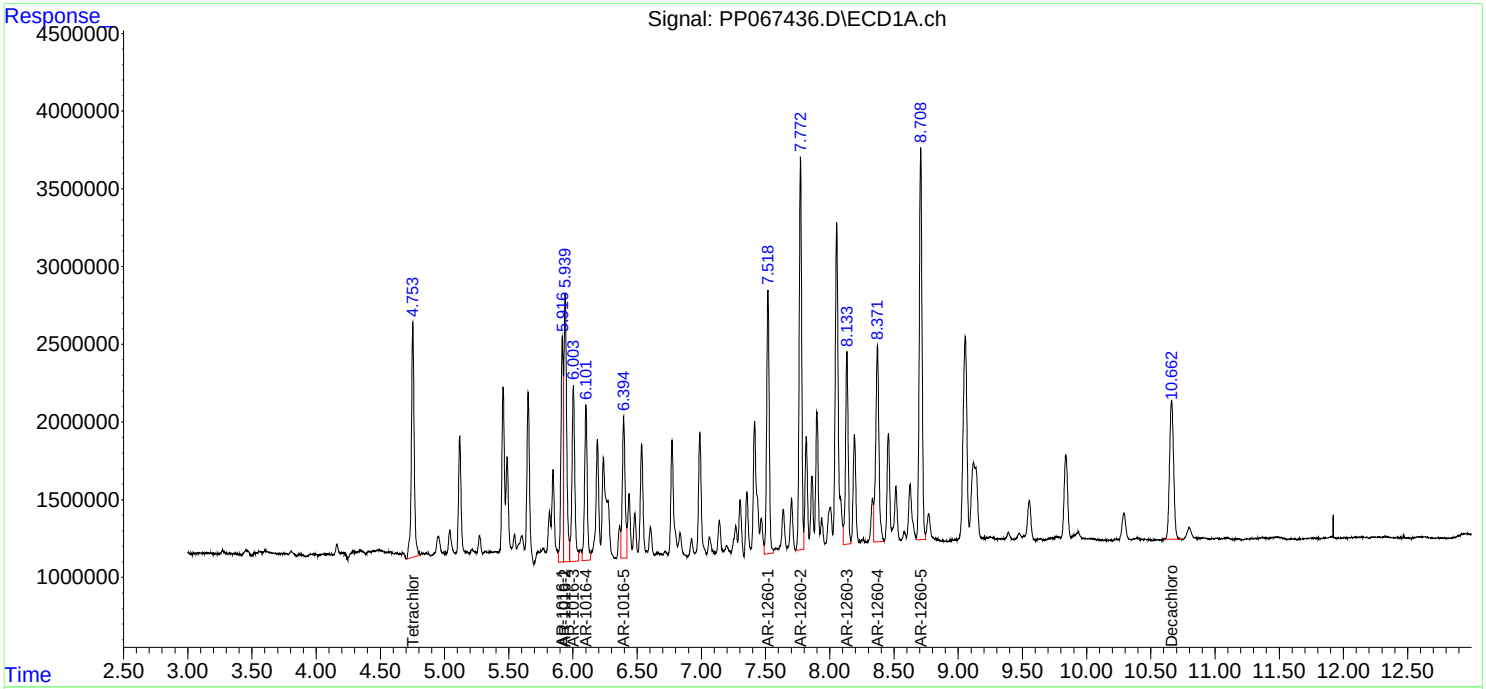
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP100224\
Data File : PP067436.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Oct 2024 16:15
Operator : YP\AJ
Sample : P4255-01MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

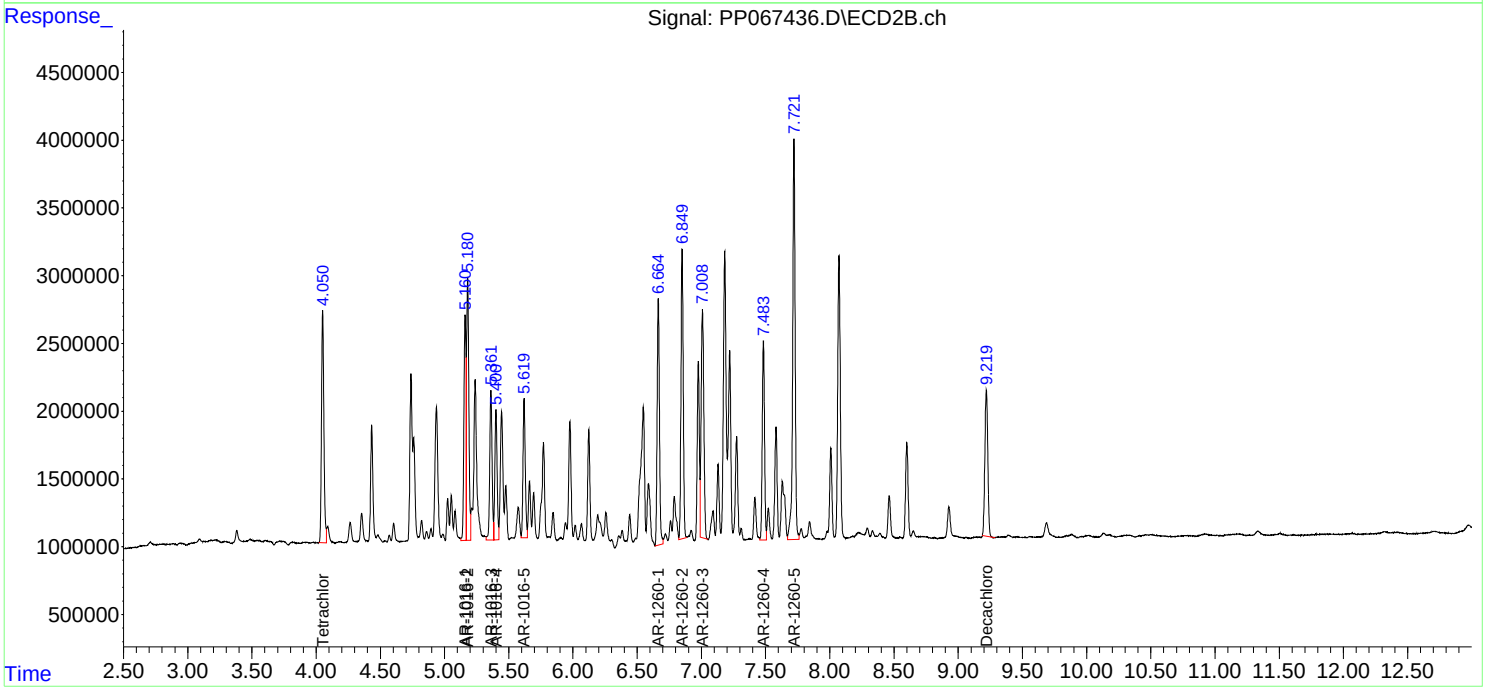
**Instrument :**
ECD_P
**ClientSampleId :**
OR-03-100124MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/03/2024
Supervised By :Ankita Jodhani 10/03/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 00:16:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP092624.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Sep 27 06:59:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP100224\
Data File : PP067437.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Oct 2024 16:31
Operator : YP\AJ
Sample : P4255-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
OR-03-100124MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/03/2024
Supervised By :Ankita Jodhani 10/03/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 00:16:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP092624.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Sep 27 06:59:05 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... | 4.751 | 4.051 | 23289983 | 22278353 | 17.328m | 14.910 |
| 2) | SA Decachlor... | 10.663 | 9.218 | 18958159 | 16880042 | 13.059 | 12.249 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.915 | 5.160 | 17493866 | 18400339 | 366.904 | 356.742 |
| 4) | L1 AR-1016-2 | 5.938 | 5.180 | 25751169 | 23546799 | 371.902 | 331.159 |
| 5) | L1 AR-1016-3 | 6.002 | 5.361 | 17281262 | 14000058 | 386.864 | 351.780 |
| 6) | L1 AR-1016-4 | 6.099 | 5.400 | 14482653 | 11839319 | 403.020 | 342.880 |
| 7) | L1 AR-1016-5 | 6.394 | 5.618 | 13315965 | 13617729 | 361.359 | 317.355m |
| 31) | L7 AR-1260-1 | 7.518 | 6.664 | 22448812 | 22527161 | 284.947 | 275.381 |
| 32) | L7 AR-1260-2 | 7.770 | 6.850 | 24999969 | 25440104 | 274.286 | 270.799 |
| 33) | L7 AR-1260-3 | 8.132 | 7.008 | 16586000 | 24645845 | 262.561 | 272.043 |
| 34) | L7 AR-1260-4 | 8.370 | 7.483 | 20712970 | 17473892 | 274.324 | 262.054 |
| 35) | L7 AR-1260-5 | 8.706 | 7.721 | 36921684 | 38879641 | 285.164 | 267.058 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

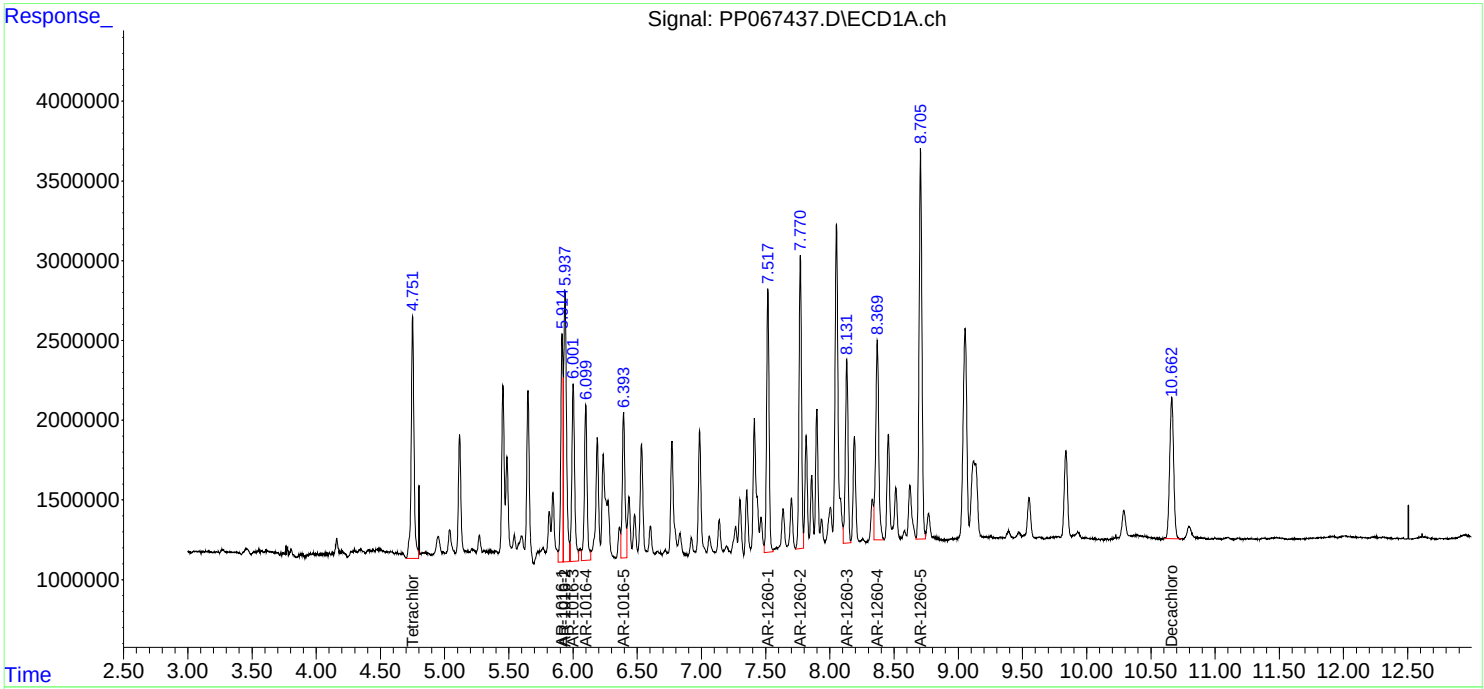
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP100224\
Data File : PP067437.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Oct 2024 16:31
Operator : YP\AJ
Sample : P4255-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

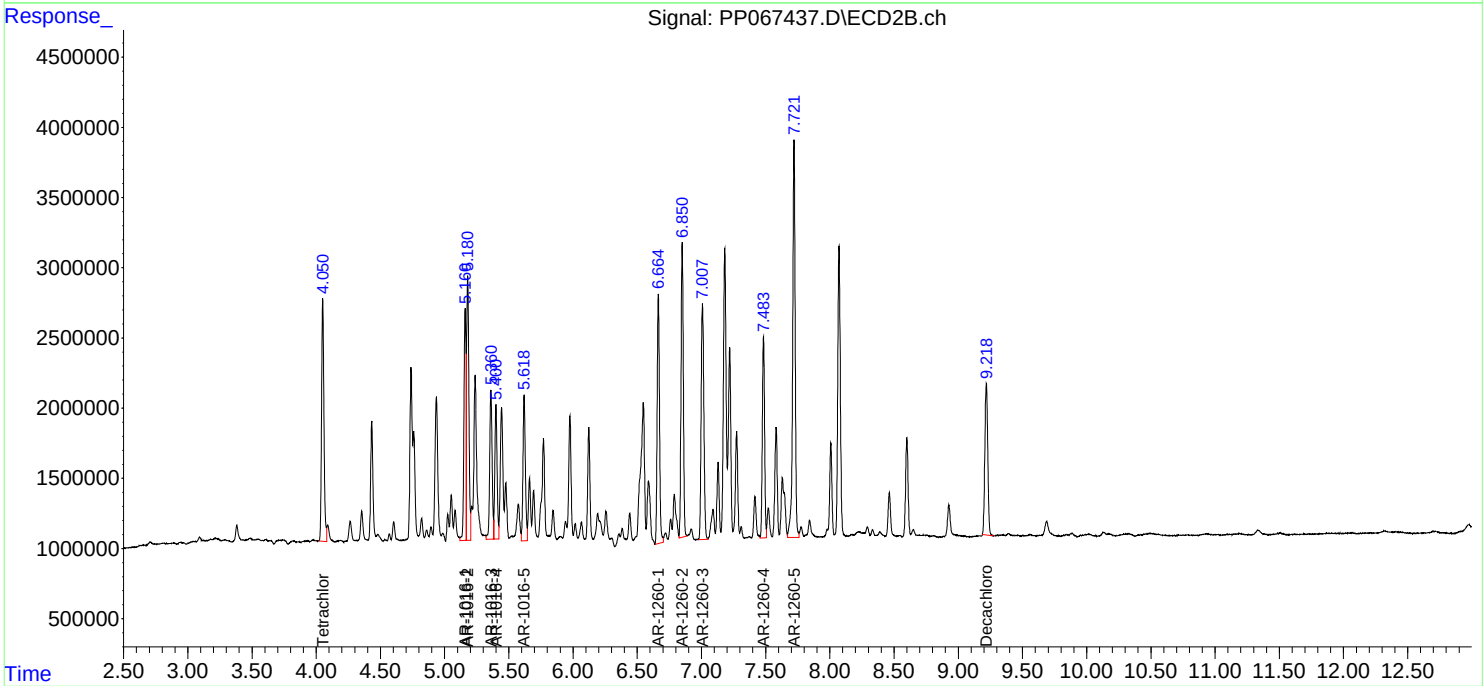
**Instrument :**
ECD_P
**ClientSampleId :**
OR-03-100124MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/03/2024
Supervised By :Ankita Jodhani 10/03/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 00:16:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP092624.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Sep 27 06:59:05 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: | PP092624 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1254ICC1000 | PP067269.D | AR-1254-1 | yogesh | 9/27/2024 8:40:53 AM | Ankita | 9/27/2024 11:54:14 | Peak Integrated by Software |
| AR1254ICC1000 | PP067269.D | AR-1254-5 | yogesh | 9/27/2024 8:40:53 AM | Ankita | 9/27/2024 11:54:14 | Peak Integrated by Software |
| AR1254ICC750 | PP067270.D | AR-1254-1 | yogesh | 9/27/2024 8:40:54 AM | Ankita | 9/27/2024 11:54:15 | Peak Integrated by Software |
| AR1254ICC750 | PP067270.D | AR-1254-5 | yogesh | 9/27/2024 8:40:54 AM | Ankita | 9/27/2024 11:54:15 | Peak Integrated by Software |
| AR1254ICC500 | PP067271.D | AR-1254-4 #2 | yogesh | 9/27/2024 8:40:55 AM | Ankita | 9/27/2024 11:54:17 | Peak Integrated by Software |
| AR1254ICC250 | PP067272.D | AR-1254-1 | yogesh | 9/27/2024 8:40:57 AM | Ankita | 9/27/2024 11:54:19 | Peak Integrated by Software |
| AR1254ICC250 | PP067272.D | AR-1254-5 | yogesh | 9/27/2024 8:40:57 AM | Ankita | 9/27/2024 11:54:19 | Peak Integrated by Software |
| AR1254ICC050 | PP067273.D | AR-1254-1 | yogesh | 9/27/2024 8:40:58 AM | Ankita | 9/27/2024 11:54:21 | Peak Integrated by Software |
| AR1254ICC050 | PP067273.D | AR-1254-5 | yogesh | 9/27/2024 8:40:58 AM | Ankita | 9/27/2024 11:54:21 | Peak Integrated by Software |

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



# Manual Integration Report

| Sequence: | PP100224 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1248CCC500 | PP067428.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:04 AM | Ankita | 10/3/2024 10:30:37 | Peak Integrated by Software |
| AR1254CCC500 | PP067429.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:07 AM | Ankita | 10/3/2024 10:30:39 | Peak Integrated by Software |
| I.BLK | PP067430.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:09 AM | Ankita | 10/3/2024 10:30:41 | Peak Integrated by Software |
| PB163832BL | PP067431.D | Decachlorobiphenyl | yogesh | 10/3/2024 8:41:12 AM | Ankita | 10/3/2024 10:30:43 | Peak Integrated by Software |
| PB163832BS | PP067432.D | Decachlorobiphenyl #2 | yogesh | 10/9/2024 8:13:41 AM | Ankita | 10/9/2024 9:19:45 | Peak Integrated by Software |
| P4255-01MS | PP067436.D | AR-1016-5 #2 | yogesh | 10/3/2024 8:41:19 AM | Ankita | 10/3/2024 10:30:49 | Peak Integrated by Software |
| P4255-01MSD | PP067437.D | AR-1016-5 #2 | yogesh | 10/3/2024 8:41:21 AM | Ankita | 10/3/2024 10:30:51 | Peak Integrated by Software |
| P4255-01MSD | PP067437.D | Tetrachloro-m-xylene | yogesh | 10/3/2024 8:41:21 AM | Ankita | 10/3/2024 10:30:51 | Peak Integrated by Software |
| AR1660CCC500 | PP067441.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:28 AM | Ankita | 10/3/2024 10:30:55 | Peak Integrated by Software |
| AR1242CCC500 | PP067442.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:31 AM | Ankita | 10/3/2024 10:30:57 | Peak Integrated by Software |
| AR1248CCC500 | PP067443.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:33 AM | Ankita | 10/3/2024 10:30:58 | Peak Integrated by Software |
| AR1254CCC500 | PP067444.D | AR-1254-1 | yogesh | 10/3/2024 8:41:35 AM | Ankita | 10/3/2024 10:31:00 | Peak Integrated by Software |
| AR1254CCC500 | PP067444.D | AR-1254-1 #2 | yogesh | 10/3/2024 8:41:35 AM | Ankita | 10/3/2024 10:31:00 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP100224 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1254CCC500 | PP067444.D | AR-1254-2 #2 | yogesh | 10/3/2024 8:41:35 AM | Ankita | 10/3/2024 10:31:00 | Peak Integrated by Software |
| AR1254CCC500 | PP067444.D | AR-1254-5 | yogesh | 10/3/2024 8:41:35 AM | Ankita | 10/3/2024 10:31:00 | Peak Integrated by Software |
| AR1254CCC500 | PP067444.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:35 AM | Ankita | 10/3/2024 10:31:00 | Peak Integrated by Software |
| I.BLK | PP067445.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:36 AM | Ankita | 10/3/2024 10:31:02 | Peak Integrated by Software |
| P4258-03 | PP067446.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:38 AM | Ankita | 10/3/2024 10:31:03 | Peak Integrated by Software |
| AR1660CCC500 | PP067452.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:46 AM | Ankita | 10/3/2024 10:31:09 | Peak Integrated by Software |
| AR1242CCC500 | PP067453.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:49 AM | Ankita | 10/3/2024 10:31:11 | Peak Integrated by Software |
| AR1248CCC500 | PP067454.D | AR-1248-4 #2 | yogesh | 10/3/2024 8:41:51 AM | Ankita | 10/3/2024 10:31:12 | Peak Integrated by Software |
| AR1248CCC500 | PP067454.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:51 AM | Ankita | 10/3/2024 10:31:12 | Peak Integrated by Software |
| AR1254CCC500 | PP067455.D | AR-1254-1 | yogesh | 10/3/2024 8:41:53 AM | Ankita | 10/3/2024 10:31:14 | Peak Integrated by Software |
| AR1254CCC500 | PP067455.D | AR-1254-1 #2 | yogesh | 10/3/2024 8:41:53 AM | Ankita | 10/3/2024 10:31:14 | Peak Integrated by Software |
| AR1254CCC500 | PP067455.D | AR-1254-2 | yogesh | 10/3/2024 8:41:53 AM | Ankita | 10/3/2024 10:31:14 | Peak Integrated by Software |
| AR1254CCC500 | PP067455.D | AR-1254-2 #2 | yogesh | 10/3/2024 8:41:53 AM | Ankita | 10/3/2024 10:31:14 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP100224 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1254CCC500 | PP067455.D | AR-1254-5 | yogesh | 10/3/2024 8:41:53 AM | Ankita | 10/3/2024 10:31:14 | Peak Integrated by Software |
| AR1254CCC500 | PP067455.D | Decachlorobiphenyl #2 | yogesh | 10/3/2024 8:41:53 AM | Ankita | 10/3/2024 10:31:14 | Peak Integrated by Software |

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Fax : 908 789 8922



**Instrument ID: ECD_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # PP092624

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 9/27/2024 8:41:10 AM | | |
| Supervise By | Ankita | Supervise On | 9/27/2024 11:54:34 AM | | |
| SubDirectory | PP092624 | HP Acquire Method | | HP Processing Method | PP092624 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23216,PP23217,PP23218,PP23219,PP23220,PP23221,PP23222,PP23223,PP23224,PP23225,PP23226,PP23227,PP23228,PP23229,PP23230,PP23231,PP23232,PP23233,PP23234,PP23235,PP23236,PP23237,PP23238,PP23239,PP23240,PP23241,PP23242,PP23243,PP23244,PP23245,PP23246,PP23247,PP23248,PP23249,PP23250,PP23251,PP23252,PP23253,PP23254,PP23255 |
| CCC | PP23218,PP23223,PP23228,PP23233,PP23238,PP23243,PP23248,PP23253 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23259,PP23579,PP23263,PP23265,PP23267,PP23269,PP23271,PP23273 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PP067250.D | 26 Sep 2024 16:03 | YP\AJ | Ok |
| 2 | I.BLK | PP067251.D | 26 Sep 2024 16:19 | YP\AJ | Ok |
| 3 | AR1660ICC1000 | PP067252.D | 26 Sep 2024 16:35 | YP\AJ | Ok |
| 4 | AR1660ICC750 | PP067253.D | 26 Sep 2024 16:51 | YP\AJ | Ok |
| 5 | AR1660ICC500 | PP067254.D | 26 Sep 2024 17:08 | YP\AJ | Ok |
| 6 | AR1660ICC250 | PP067255.D | 26 Sep 2024 17:24 | YP\AJ | Ok |
| 7 | AR1660ICC050 | PP067256.D | 26 Sep 2024 17:40 | YP\AJ | Ok |
| 8 | AR1221ICC500 | PP067257.D | 26 Sep 2024 17:56 | YP\AJ | Ok |
| 9 | AR1232ICC500 | PP067258.D | 26 Sep 2024 18:12 | YP\AJ | Ok |
| 10 | AR1242ICC1000 | PP067259.D | 26 Sep 2024 18:28 | YP\AJ | Ok |
| 11 | AR1242ICC750 | PP067260.D | 26 Sep 2024 18:45 | YP\AJ | Ok |
| 12 | AR1242ICC500 | PP067261.D | 26 Sep 2024 19:01 | YP\AJ | Ok |
| 13 | AR1242ICC250 | PP067262.D | 26 Sep 2024 19:17 | YP\AJ | Ok |
| 14 | AR1242ICC050 | PP067263.D | 26 Sep 2024 19:33 | YP\AJ | Ok |
| 15 | AR1248ICC1000 | PP067264.D | 26 Sep 2024 19:49 | YP\AJ | Ok |
| 16 | AR1248ICC750 | PP067265.D | 26 Sep 2024 20:05 | YP\AJ | Ok |
| 17 | AR1248ICC500 | PP067266.D | 26 Sep 2024 20:21 | YP\AJ | Ok |
| 18 | AR1248ICC250 | PP067267.D | 26 Sep 2024 20:38 | YP\AJ | Ok |
| 19 | AR1248ICC050 | PP067268.D | 26 Sep 2024 20:54 | YP\AJ | Ok |
| 20 | AR1254ICC1000 | PP067269.D | 26 Sep 2024 21:10 | YP\AJ | Ok,M |
| 21 | AR1254ICC750 | PP067270.D | 26 Sep 2024 21:26 | YP\AJ | Ok,M |

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**Instrument ID: ECD_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # PP092624

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 9/27/2024 8:41:10 AM | | |
| Supervise By | Ankita | Supervise On | 9/27/2024 11:54:34 AM | | |
| SubDirectory | PP092624 | HP Acquire Method | | HP Processing Method | PP092624 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23216,PP23217,PP23218,PP23219,PP23220,PP23221,PP23222,PP23223,PP23224,PP23225,PP23226,PP23227,PP23228,PP23229,PP23230,PP23231,PP23232,PP23233,PP23234,PP23235,PP23236,PP23237,PP23238,PP23239,PP23240,PP23241,PP23242,PP23243,PP23244,PP23245,PP23246,PP23247,PP23248,PP23249,PP23250,PP23251,PP23252,PP23253,PP23254,PP23255 |
| CCC | PP23218,PP23223,PP23228,PP23233,PP23238,PP23243,PP23248,PP23253 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23259,PP23579,PP23263,PP23265,PP23267,PP23269,PP23271,PP23273 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | AR1254ICC500 | PP067271.D | 26 Sep 2024 21:42 | YP\AJ | Ok,M |
| 23 | AR1254ICC250 | PP067272.D | 26 Sep 2024 21:58 | YP\AJ | Ok,M |
| 24 | AR1254ICC050 | PP067273.D | 26 Sep 2024 22:14 | YP\AJ | Ok,M |
| 25 | AR1262ICC500 | PP067274.D | 26 Sep 2024 22:30 | YP\AJ | Ok |
| 26 | AR1268ICC1000 | PP067275.D | 26 Sep 2024 22:47 | YP\AJ | Ok |
| 27 | AR1268ICC750 | PP067276.D | 26 Sep 2024 23:03 | YP\AJ | Ok |
| 28 | AR1268ICC500 | PP067277.D | 26 Sep 2024 23:19 | YP\AJ | Ok |
| 29 | AR1268ICC250 | PP067278.D | 26 Sep 2024 23:35 | YP\AJ | Ok |
| 30 | AR1268ICC050 | PP067279.D | 26 Sep 2024 23:51 | YP\AJ | Ok |
| 31 | PP092624ICV500 | PP067280.D | 27 Sep 2024 00:07 | YP\AJ | Ok |
| 32 | AR1242ICV500 | PP067281.D | 27 Sep 2024 00:23 | YP\AJ | Ok |
| 33 | AR1248ICV500 | PP067282.D | 27 Sep 2024 00:39 | YP\AJ | Ok |
| 34 | AR1254ICV500 | PP067283.D | 27 Sep 2024 00:56 | YP\AJ | Ok |
| 35 | AR1268ICV500 | PP067284.D | 27 Sep 2024 01:12 | YP\AJ | Ok |

M : Manual Integration

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**Instrument ID: ECD_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # PP100224

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/3/2024 8:42:13 AM | | |
| Supervise By | Ankita | Supervise On | 10/3/2024 10:31:34 AM | | |
| SubDirectory | PP100224 | HP Acquire Method | | HP Processing Method | PP092624 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23216,PP23217,PP23218,PP23219,PP23220,PP23221,PP23222,PP23223,PP23224,PP23225,PP23226,PP23227,PP23228,PP23229,PP23230,PP23231,PP23232,PP23233,PP23234,PP23235,PP23236,PP23237,PP23238,PP23239,PP23240,PP23241,PP23242,PP23243,PP23244,PP23245,PP23246,PP23247,PP23248,PP23249,PP23250,PP23251,PP23252,PP23253,PP23254,PP23255 |
| CCC | PP23218,PP23223,PP23228,PP23233,PP23238,PP23243,PP23248,PP23253 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23259,PP23579,PP23263,PP23265,PP23267,PP23269,PP23271,PP23273 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PP067421.D | 02 Oct 2024 08:48 | YP\AJ | Ok |
| 2 | AR1660CCC500 | PP067422.D | 02 Oct 2024 09:04 | YP\AJ | Ok |
| 3 | I.BLK | PP067423.D | 02 Oct 2024 09:23 | YP\AJ | Ok |
| 4 | P4249-02DL | PP067424.D | 02 Oct 2024 09:39 | YP\AJ | Ok |
| 5 | P4249-03DL | PP067425.D | 02 Oct 2024 09:55 | YP\AJ | Ok |
| 6 | AR1660CCC500 | PP067426.D | 02 Oct 2024 13:34 | YP\AJ | Ok |
| 7 | AR1242CCC500 | PP067427.D | 02 Oct 2024 13:50 | YP\AJ | Ok |
| 8 | AR1248CCC500 | PP067428.D | 02 Oct 2024 14:06 | YP\AJ | Ok,M |
| 9 | AR1254CCC500 | PP067429.D | 02 Oct 2024 14:22 | YP\AJ | Ok,M |
| 10 | I.BLK | PP067430.D | 02 Oct 2024 14:38 | YP\AJ | Ok,M |
| 11 | PB163832BL | PP067431.D | 02 Oct 2024 14:54 | YP\AJ | Ok,M |
| 12 | PB163832BS | PP067432.D | 02 Oct 2024 15:11 | YP\AJ | Ok,M |
| 13 | P4242-01 | PP067433.D | 02 Oct 2024 15:27 | YP\AJ | Ok |
| 14 | P4254-01 | PP067434.D | 02 Oct 2024 15:43 | YP\AJ | Not Ok |
| 15 | P4255-01 | PP067435.D | 02 Oct 2024 15:59 | YP\AJ | Ok,M |
| 16 | P4255-01MS | PP067436.D | 02 Oct 2024 16:15 | YP\AJ | Ok,M |
| 17 | P4255-01MSD | PP067437.D | 02 Oct 2024 16:31 | YP\AJ | Ok,M |
| 18 | P4256-01 | PP067438.D | 02 Oct 2024 16:47 | YP\AJ | Ok |
| 19 | P4256-02 | PP067439.D | 02 Oct 2024 17:03 | YP\AJ | Ok,M |
| 20 | P4257-01 | PP067440.D | 02 Oct 2024 17:19 | YP\AJ | Ok,M |
| 21 | AR1660CCC500 | PP067441.D | 02 Oct 2024 20:39 | YP\AJ | Ok,M |

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**Instrument ID: ECD_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # PP100224

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/3/2024 8:42:13 AM | | |
| Supervise By | Ankita | Supervise On | 10/3/2024 10:31:34 AM | | |
| SubDirectory | PP100224 | HP Acquire Method | | HP Processing Method | PP092624 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23216,PP23217,PP23218,PP23219,PP23220,PP23221,PP23222,PP23223,PP23224,PP23225,PP23226,PP23227,PP23228,PP23229,PP23230 ,PP23231,PP23232,PP23233,PP23234,PP23235,PP23236,PP23237,PP23238,PP23239,PP23240,PP23241,PP23242,PP23243,PP23244,PP2324 5,PP23246,PP23247,PP23248,PP23249,PP23250,PP23251,PP23252,PP23253,PP23254,PP23255 |
| CCC | PP23218,PP23223,PP23228,PP23233,PP23238,PP23243,PP23248,PP23253 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23259,PP23579,PP23263,PP23265,PP23267,PP23269,PP23271,PP23273 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | AR1242CCC500 | PP067442.D | 02 Oct 2024 21:12 | YP\AJ | Ok,M |
| 23 | AR1248CCC500 | PP067443.D | 02 Oct 2024 22:27 | YP\AJ | Ok,M |
| 24 | AR1254CCC500 | PP067444.D | 02 Oct 2024 22:43 | YP\AJ | Ok,M |
| 25 | I.BLK | PP067445.D | 02 Oct 2024 22:59 | YP\AJ | Ok,M |
| 26 | P4258-03 | PP067446.D | 02 Oct 2024 23:15 | YP\AJ | Ok,M |
| 27 | PB163840BL | PP067447.D | 02 Oct 2024 23:31 | YP\AJ | Ok,M |
| 28 | PB163840BS | PP067448.D | 02 Oct 2024 23:47 | YP\AJ | Ok |
| 29 | PB163840BSD | PP067449.D | 03 Oct 2024 00:03 | YP\AJ | Ok,M |
| 30 | P4235-02 | PP067450.D | 03 Oct 2024 00:19 | YP\AJ | Ok,M |
| 31 | P4254-05 | PP067451.D | 03 Oct 2024 00:35 | YP\AJ | Ok |
| 32 | AR1660CCC500 | PP067452.D | 03 Oct 2024 02:06 | YP\AJ | Ok,M |
| 33 | AR1242CCC500 | PP067453.D | 03 Oct 2024 02:22 | YP\AJ | Ok,M |
| 34 | AR1248CCC500 | PP067454.D | 03 Oct 2024 02:38 | YP\AJ | Ok,M |
| 35 | AR1254CCC500 | PP067455.D | 03 Oct 2024 02:54 | YP\AJ | Ok,M |
| 36 | I.BLK | PP067456.D | 03 Oct 2024 03:10 | YP\AJ | Ok |

M : Manual Integration

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**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP092624

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 9/27/2024 8:41:10 AM | | |
| Supervise By | Ankita | Supervise On | 9/27/2024 11:54:34 AM | | |
| SubDirectory | PP092624 | HP Acquire Method | | HP Processing Method | PP092624 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23216,PP23217,PP23218,PP23219,PP23220,PP23221,PP23222,PP23223,PP23224,PP23225,PP23226,PP23227,PP23228,PP23229,PP23230,PP23231,PP23232,PP23233,PP23234,PP23235,PP23236,PP23237,PP23238,PP23239,PP23240,PP23241,PP23242,PP23243,PP23244,PP23245,PP23246,PP23247,PP23248,PP23249,PP23250,PP23251,PP23252,PP23253,PP23254,PP23255 |
| CCC | PP23218,PP23223,PP23228,PP23233,PP23238,PP23243,PP23248,PP23253 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23259,PP23579,PP23263,PP23265,PP23267,PP23269,PP23271,PP23273 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PP067250.D | 26 Sep 2024 16:03 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | PP067251.D | 26 Sep 2024 16:19 | | YP\AJ | Ok |
| 3 | AR1660ICC1000 | AR1660ICC1000 | PP067252.D | 26 Sep 2024 16:35 | | YP\AJ | Ok |
| 4 | AR1660ICC750 | AR1660ICC750 | PP067253.D | 26 Sep 2024 16:51 | | YP\AJ | Ok |
| 5 | AR1660ICC500 | AR1660ICC500 | PP067254.D | 26 Sep 2024 17:08 | | YP\AJ | Ok |
| 6 | AR1660ICC250 | AR1660ICC250 | PP067255.D | 26 Sep 2024 17:24 | | YP\AJ | Ok |
| 7 | AR1660ICC050 | AR1660ICC050 | PP067256.D | 26 Sep 2024 17:40 | | YP\AJ | Ok |
| 8 | AR1221ICC500 | AR1221ICC500 | PP067257.D | 26 Sep 2024 17:56 | | YP\AJ | Ok |
| 9 | AR1232ICC500 | AR1232ICC500 | PP067258.D | 26 Sep 2024 18:12 | | YP\AJ | Ok |
| 10 | AR1242ICC1000 | AR1242ICC1000 | PP067259.D | 26 Sep 2024 18:28 | | YP\AJ | Ok |
| 11 | AR1242ICC750 | AR1242ICC750 | PP067260.D | 26 Sep 2024 18:45 | | YP\AJ | Ok |
| 12 | AR1242ICC500 | AR1242ICC500 | PP067261.D | 26 Sep 2024 19:01 | | YP\AJ | Ok |
| 13 | AR1242ICC250 | AR1242ICC250 | PP067262.D | 26 Sep 2024 19:17 | | YP\AJ | Ok |
| 14 | AR1242ICC050 | AR1242ICC050 | PP067263.D | 26 Sep 2024 19:33 | | YP\AJ | Ok |
| 15 | AR1248ICC1000 | AR1248ICC1000 | PP067264.D | 26 Sep 2024 19:49 | | YP\AJ | Ok |
| 16 | AR1248ICC750 | AR1248ICC750 | PP067265.D | 26 Sep 2024 20:05 | | YP\AJ | Ok |
| 17 | AR1248ICC500 | AR1248ICC500 | PP067266.D | 26 Sep 2024 20:21 | | YP\AJ | Ok |
| 18 | AR1248ICC250 | AR1248ICC250 | PP067267.D | 26 Sep 2024 20:38 | | YP\AJ | Ok |

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Fax : 908 789 8922



**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP092624

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 9/27/2024 8:41:10 AM | | |
| Supervise By | Ankita | Supervise On | 9/27/2024 11:54:34 AM | | |
| SubDirectory | PP092624 | HP Acquire Method | | HP Processing Method | PP092624 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23216,PP23217,PP23218,PP23219,PP23220,PP23221,PP23222,PP23223,PP23224,PP23225,PP23226,PP23227,PP23228,PP23229,PP23230,PP23231,PP23232,PP23233,PP23234,PP23235,PP23236,PP23237,PP23238,PP23239,PP23240,PP23241,PP23242,PP23243,PP23244,PP23245,PP23246,PP23247,PP23248,PP23249,PP23250,PP23251,PP23252,PP23253,PP23254,PP23255 |
| CCC | PP23218,PP23223,PP23228,PP23233,PP23238,PP23243,PP23248,PP23253 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23259,PP23579,PP23263,PP23265,PP23267,PP23269,PP23271,PP23273 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | AR1248ICC050 | AR1248ICC050 | PP067268.D | 26 Sep 2024 20:54 | | YP\AJ | Ok |
| 20 | AR1254ICC1000 | AR1254ICC1000 | PP067269.D | 26 Sep 2024 21:10 | | YP\AJ | Ok,M |
| 21 | AR1254ICC750 | AR1254ICC750 | PP067270.D | 26 Sep 2024 21:26 | | YP\AJ | Ok,M |
| 22 | AR1254ICC500 | AR1254ICC500 | PP067271.D | 26 Sep 2024 21:42 | | YP\AJ | Ok,M |
| 23 | AR1254ICC250 | AR1254ICC250 | PP067272.D | 26 Sep 2024 21:58 | | YP\AJ | Ok,M |
| 24 | AR1254ICC050 | AR1254ICC050 | PP067273.D | 26 Sep 2024 22:14 | | YP\AJ | Ok,M |
| 25 | AR1262ICC500 | AR1262ICC500 | PP067274.D | 26 Sep 2024 22:30 | | YP\AJ | Ok |
| 26 | AR1268ICC1000 | AR1268ICC1000 | PP067275.D | 26 Sep 2024 22:47 | | YP\AJ | Ok |
| 27 | AR1268ICC750 | AR1268ICC750 | PP067276.D | 26 Sep 2024 23:03 | | YP\AJ | Ok |
| 28 | AR1268ICC500 | AR1268ICC500 | PP067277.D | 26 Sep 2024 23:19 | | YP\AJ | Ok |
| 29 | AR1268ICC250 | AR1268ICC250 | PP067278.D | 26 Sep 2024 23:35 | | YP\AJ | Ok |
| 30 | AR1268ICC050 | AR1268ICC050 | PP067279.D | 26 Sep 2024 23:51 | | YP\AJ | Ok |
| 31 | PP092624ICV500 | ICVPP092624 | PP067280.D | 27 Sep 2024 00:07 | | YP\AJ | Ok |
| 32 | AR1242ICV500 | ICVPP092624AR1242 | PP067281.D | 27 Sep 2024 00:23 | | YP\AJ | Ok |
| 33 | AR1248ICV500 | ICVPP092624AR1248 | PP067282.D | 27 Sep 2024 00:39 | | YP\AJ | Ok |
| 34 | AR1254ICV500 | ICVPP092624AR1254 | PP067283.D | 27 Sep 2024 00:56 | | YP\AJ | Ok |
| 35 | AR1268ICV500 | ICVPP092624AR1268 | PP067284.D | 27 Sep 2024 01:12 | | YP\AJ | Ok |

M : Manual Integration

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Fax : 908 789 8922



**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP100224

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/3/2024 8:42:13 AM | | |
| Supervise By | Ankita | Supervise On | 10/3/2024 10:31:34 AM | | |
| SubDirectory | PP100224 | HP Acquire Method | | HP Processing Method | PP092624 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23216,PP23217,PP23218,PP23219,PP23220,PP23221,PP23222,PP23223,PP23224,PP23225,PP23226,PP23227,PP23228,PP23229,PP23230,PP23231,PP23232,PP23233,PP23234,PP23235,PP23236,PP23237,PP23238,PP23239,PP23240,PP23241,PP23242,PP23243,PP23244,PP23245,PP23246,PP23247,PP23248,PP23249,PP23250,PP23251,PP23252,PP23253,PP23254,PP23255 |
| CCC | PP23218,PP23223,PP23228,PP23233,PP23238,PP23243,PP23248,PP23253 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23259,PP23579,PP23263,PP23265,PP23267,PP23269,PP23271,PP23273 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PP067421.D | 02 Oct 2024 08:48 | | YP\AJ | Ok |
| 2 | AR1660CCC500 | AR1660CCC500 | PP067422.D | 02 Oct 2024 09:04 | | YP\AJ | Ok |
| 3 | I.BLK | I.BLK | PP067423.D | 02 Oct 2024 09:23 | | YP\AJ | Ok |
| 4 | P4249-02DL | RV-26(2-2.5)DL | PP067424.D | 02 Oct 2024 09:39 | AR1260 Hit | YP\AJ | Ok |
| 5 | P4249-03DL | RV-27(2-2.5)DL | PP067425.D | 02 Oct 2024 09:55 | AR1260 Hit | YP\AJ | Ok |
| 6 | AR1660CCC500 | AR1660CCC500 | PP067426.D | 02 Oct 2024 13:34 | | YP\AJ | Ok |
| 7 | AR1242CCC500 | AR1242CCC500 | PP067427.D | 02 Oct 2024 13:50 | | YP\AJ | Ok |
| 8 | AR1248CCC500 | AR1248CCC500 | PP067428.D | 02 Oct 2024 14:06 | | YP\AJ | Ok,M |
| 9 | AR1254CCC500 | AR1254CCC500 | PP067429.D | 02 Oct 2024 14:22 | | YP\AJ | Ok,M |
| 10 | I.BLK | I.BLK | PP067430.D | 02 Oct 2024 14:38 | | YP\AJ | Ok,M |
| 11 | PB163832BL | PB163832BL | PP067431.D | 02 Oct 2024 14:54 | | YP\AJ | Ok,M |
| 12 | PB163832BS | PB163832BS | PP067432.D | 02 Oct 2024 15:11 | | YP\AJ | Ok,M |
| 13 | P4242-01 | TP-Q | PP067433.D | 02 Oct 2024 15:27 | | YP\AJ | Ok |
| 14 | P4254-01 | MH-147-SLUDGE | PP067434.D | 02 Oct 2024 15:43 | DCB fail in both column, TCMX low in 2nd column | YP\AJ | Not Ok |
| 15 | P4255-01 | OR-03-100124 | PP067435.D | 02 Oct 2024 15:59 | | YP\AJ | Ok,M |
| 16 | P4255-01MS | OR-03-100124MS | PP067436.D | 02 Oct 2024 16:15 | | YP\AJ | Ok,M |
| 17 | P4255-01MSD | OR-03-100124MSD | PP067437.D | 02 Oct 2024 16:31 | | YP\AJ | Ok,M |

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Fax : 908 789 8922



**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP100224

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/3/2024 8:42:13 AM | | |
| Supervise By | Ankita | Supervise On | 10/3/2024 10:31:34 AM | | |
| SubDirectory | PP100224 | HP Acquire Method | | HP Processing Method | PP092624 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23216,PP23217,PP23218,PP23219,PP23220,PP23221,PP23222,PP23223,PP23224,PP23225,PP23226,PP23227,PP23228,PP23229,PP23230,PP23231,PP23232,PP23233,PP23234,PP23235,PP23236,PP23237,PP23238,PP23239,PP23240,PP23241,PP23242,PP23243,PP23244,PP23245,PP23246,PP23247,PP23248,PP23249,PP23250,PP23251,PP23252,PP23253,PP23254,PP23255 |
| CCC | PP23218,PP23223,PP23228,PP23233,PP23238,PP23243,PP23248,PP23253 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23259,PP23579,PP23263,PP23265,PP23267,PP23269,PP23271,PP23273 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | P4256-01 | 585 | PP067438.D | 02 Oct 2024 16:47 | | YP\AJ | Ok |
| 19 | P4256-02 | 31480 | PP067439.D | 02 Oct 2024 17:03 | | YP\AJ | Ok,M |
| 20 | P4257-01 | VNJ-240 | PP067440.D | 02 Oct 2024 17:19 | | YP\AJ | Ok,M |
| 21 | AR1660CCC500 | AR1660CCC500 | PP067441.D | 02 Oct 2024 20:39 | AR1016 2&3 peak low in 1st column | YP\AJ | Ok,M |
| 22 | AR1242CCC500 | AR1242CCC500 | PP067442.D | 02 Oct 2024 21:12 | | YP\AJ | Ok,M |
| 23 | AR1248CCC500 | AR1248CCC500 | PP067443.D | 02 Oct 2024 22:27 | | YP\AJ | Ok,M |
| 24 | AR1254CCC500 | AR1254CCC500 | PP067444.D | 02 Oct 2024 22:43 | | YP\AJ | Ok,M |
| 25 | I.BLK | I.BLK | PP067445.D | 02 Oct 2024 22:59 | | YP\AJ | Ok,M |
| 26 | P4258-03 | Chamberlain Ave | PP067446.D | 02 Oct 2024 23:15 | | YP\AJ | Ok,M |
| 27 | PB163840BL | PB163840BL | PP067447.D | 02 Oct 2024 23:31 | | YP\AJ | Ok,M |
| 28 | PB163840BS | PB163840BS | PP067448.D | 02 Oct 2024 23:47 | | YP\AJ | Ok |
| 29 | PB163840BSD | PB163840BSD | PP067449.D | 03 Oct 2024 00:03 | | YP\AJ | Ok,M |
| 30 | P4235-02 | A1403 | PP067450.D | 03 Oct 2024 00:19 | | YP\AJ | Ok,M |
| 31 | P4254-05 | MH-147 | PP067451.D | 03 Oct 2024 00:35 | | YP\AJ | Ok |
| 32 | AR1660CCC500 | AR1660CCC500 | PP067452.D | 03 Oct 2024 02:06 | | YP\AJ | Ok,M |
| 33 | AR1242CCC500 | AR1242CCC500 | PP067453.D | 03 Oct 2024 02:22 | | YP\AJ | Ok,M |
| 34 | AR1248CCC500 | AR1248CCC500 | PP067454.D | 03 Oct 2024 02:38 | | YP\AJ | Ok,M |
| 35 | AR1254CCC500 | AR1254CCC500 | PP067455.D | 03 Oct 2024 02:54 | | YP\AJ | Ok,M |
| 36 | I.BLK | I.BLK | PP067456.D | 03 Oct 2024 03:10 | | YP\AJ | Ok |

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**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP100224

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/3/2024 8:42:13 AM | | |
| Supervise By | Ankita | Supervise On | 10/3/2024 10:31:34 AM | | |
| SubDirectory | PP100224 | HP Acquire Method | | HP Processing Method | PP092624 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP23216,PP23217,PP23218,PP23219,PP23220,PP23221,PP23222,PP23223,PP23224,PP23225,PP23226,PP23227,PP23228,PP23229,PP23230,PP23231,PP23232,PP23233,PP23234,PP23235,PP23236,PP23237,PP23238,PP23239,PP23240,PP23241,PP23242,PP23243,PP23244,PP23245,PP23246,PP23247,PP23248,PP23249,PP23250,PP23251,PP23252,PP23253,PP23254,PP23255 |
| CCC | PP23218,PP23223,PP23228,PP23233,PP23238,PP23243,PP23248,PP23253 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23259,PP23579,PP23263,PP23265,PP23267,PP23269,PP23271,PP23273 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

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**EXTRACTION LOGPAGE**

# PB163832

**SOP ID:** M3541-ASE Extraction-14

**Clean Up SOP #:** Acid Cleanup

**Matrix :** Solid

**Weigh By:** EH

**Balance check:** RJ

**Balance ID:** EX-SC-2

**pH Strip Lot#:** N/A

**Extraction By:** RJ

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 3,7

**Extraction Start Date :** 10/02/2024

**Extraction Start Time :** 08:30

**Extraction End Date :** 10/02/2024

**Extraction End Time :** 11:30

**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 | 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 | EP2541 |
| Sand | N/A | E2865 |
| Hexane | N/A | E3805 |
| 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, P4256-01,02 Limited volume used as samples are Oily Debries.

**KD Bath ID:** N/A

**KD Bath Temperature:** N/A

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/2/24 | RP/Ext. Lab | AJ/GCMS PM Lab |
| 11:35 | Preparation Group | Analysis Group |

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**EXTRACTION LOGPAGE**

**PrepBatch ID : PB163832**

**Analytical Method:** M3541-ASE Extraction-14 **Concentration Date:** 10/02/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB163832BL | ABLK832 | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | | | U1-1 |
| PB163832BS | ALCS832 | PCB | 30.03 | N/A | ritesh | Evelyn | 10 | | | 2 |
| P4242-01 | TP-Q | PCB | 30.04 | N/A | ritesh | Evelyn | 10 | B | | 3 |
| P4254-01 | MH-147-SLUDGE | PCB | 30.07 | N/A | ritesh | Evelyn | 10 | B | Sludge | 4 |
| P4255-01 | OR-03-100124 | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | E | | 5 |
| P4255-01MS | OR-03-100124MS | PCB | 30.06 | N/A | ritesh | Evelyn | 10 | E | | 6 |
| P4255-01MSD | OR-03-100124MSD | PCB | 30.01 | N/A | ritesh | Evelyn | 10 | E | | U5-1 |
| P4256-01 | 585 | PCB | 5.04 | N/A | ritesh | Evelyn | 10 | B | Oily Debris+Small Particles | 2 |
| P4256-02 | 31480 | PCB | 5.03 | N/A | ritesh | Evelyn | 10 | B | Oily Debris | 3 |
| P4257-01 | VNJ-240 | PCB | 30.06 | N/A | ritesh | Evelyn | 10 | B | | 4 |
| P4258-03 | CHAMBERLAIN AVE | PCB | 30.05 | N/A | ritesh | Evelyn | 10 | B | | 5 |

* **Extracts relinquished on the same date as received.**

10/2/24

1638 8:30

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P4242 **WorkList ID :** 184020 **Department :** Extraction **Date :** 10-02-2024 08:20:14

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4242-01 | TP-Q | Solid | PCB | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 8082A |
| P4254-01 | MH-147-SLUDGE | Solid | PCB | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 8082A |
| P4255-01 | OR-03-100124 | Solid | PCB | Cool 4 deg C | PSEG05 | J51 | 10/01/2024 | 8082A |
| P4256-01 | 585 | Solid | PCB | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 8082A |
| P4256-02 | 31480 | Solid | PCB | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 8082A |
| P4257-01 | VNJ-240 | Solid | PCB | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 8082A |
| P4258-03 | Chamberlain Ave | Solid | PCB | Cool 4 deg C | ROMA02 | H51 | 10/01/2024 | 8082A |

**Date/Time** 10/2/24 8:25
**Raw Sample Received by:** RJ (Ext 104)
**Raw Sample Relinquished by:** JD CSM)

**Date/Time** 10/2/24 8:55
**Raw Sample Received by:** JD CSM)
**Raw Sample Relinquished by:** RJ (Ext 104)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-03** | **Chamberlain Ave** | **SOIL** | | | **10/01/24** | | | **10/01/24** |
| | | | PCB | 8082A | | 10/02/24 | 10/02/24 | |
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP Herbicide | 8151A | | 10/03/24 | 10/04/24 | |
| | | | TCLP Pesticide | 8081B | | 10/03/24 | 10/03/24 | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** P4258 **Order ID:** P4258

**Client:** Roman E&G Corp **Project ID:** Perth Amboy

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|

**Client ID :**

**Total Concentration:** **0.000**

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| Analytical Method: | SW8151A | % Solid: | 86 Decanted: |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | 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 |
|---|---|---|---|---|
| PS027908.D | 1 | 10/11/24 08:31 | 10/11/24 18:27 | PB164060 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 10.1 | U | 10.1 | 77.8 | ug/Kg |
| 120-36-5 | DICHLORPROP | 11.1 | U | 11.1 | 77.8 | ug/Kg |
| 94-75-7 | 2,4-D | 14.1 | U | 14.1 | 77.8 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.9 | U | 10.9 | 77.8 | ug/Kg |
| 93-76-5 | 2,4,5-T | 11.7 | U | 11.7 | 77.8 | ug/Kg |
| 94-82-6 | 2,4-DB | 21.3 | U | 21.3 | 77.8 | ug/Kg |
| 88-85-7 | DINOSEB | 14.4 | U | 14.4 | 77.8 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 257 | | 10 - 141 | 51% | 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

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## Surrogate Summary

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8151A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PS027854.D | PIBLK-PS027854.D | 2,4-DCAA | 1 | 500 | 510 | 102 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 479 | 96 | | 39 | 175 |
| I.BLK-PS027904.D | PIBLK-PS027904.D | 2,4-DCAA | 1 | 500 | 520 | 104 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 485 | 97 | | 39 | 175 |
| PB164060BL | PB164060BL | 2,4-DCAA | 1 | 500 | 487 | 97 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 436 | 87 | | 10 | 141 |
| PB164060BS | PB164060BS | 2,4-DCAA | 1 | 500 | 590 | 118 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 532 | 106 | | 10 | 141 |
| P4258-03 | Chamberlain Ave | 2,4-DCAA | 1 | 500 | 257 | 51 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 190 | 38 | | 10 | 141 |
| P4385-02MS | SP-1MS | 2,4-DCAA | 1 | 500 | 490 | 98 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 361 | 72 | | 10 | 141 |
| P4385-02MSD | SP-1MSD | 2,4-DCAA | 1 | 500 | 511 | 102 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 371 | 74 | | 10 | 141 |
| I.BLK-PS027915.D | PIBLK-PS027915.D | 2,4-DCAA | 1 | 500 | 518 | 104 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 484 | 97 | | 39 | 175 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8151A **DataFile :** PS027910.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:** | **SP-1MS** | | | | | | | | | | | |
| P4385-02MS | DICAMBA | 178 | 0 | 94.8 | ug/Kg | 53 | | | | 10 | 112 | |
| | DICHLORPROP | 178 | 0 | 80.0 | ug/Kg | 45 | | | | 10 | 113 | |
| | 2,4-D | 178 | 0 | 102 | ug/Kg | 57 | | | | 10 | 144 | |
| | 2,4,5-TP(Silvex) | 178 | 0 | 56.7 | ug/Kg | 32 | | | | 10 | 114 | |
| | 2,4,5-T | 178 | 0 | 72.3 | ug/Kg | 41 | | | | 10 | 115 | |
| | 2,4-DB | 178 | 0 | 88.2 | ug/Kg | 50 | | | | 10 | 140 | |
| | Dinoseb | 178 | 0 | 0 | ug/Kg | 0 | * | | | 10 | 118 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8151A **DataFile :** PS027911.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:** | **SP-1MSD** | | | | | | | | | | | |
| P4385-02MSD | DICAMBA | 178.1 | 0 | 96.3 | ug/Kg | 54 | | 2 | | 10 | 112 | 20 |
| | DICHLORPROP | 178.1 | 0 | 81.1 | ug/Kg | 46 | | 2 | | 10 | 113 | 20 |
| | 2,4-D | 178.1 | 0 | 101 | ug/Kg | 57 | | 0 | | 10 | 144 | 20 |
| | 2,4,5-TP(Silvex) | 178.1 | 0 | 55.6 | ug/Kg | 31 | | 3 | | 10 | 114 | 20 |
| | 2,4,5-T | 178.1 | 0 | 71.4 | ug/Kg | 40 | | 2 | | 10 | 115 | 20 |
| | 2,4-DB | 178.1 | 0 | 55.3 | ug/Kg | 31 | | 47 | * | 10 | 140 | 20 |
| | Dinoseb | 178.1 | 0 | 0 | ug/Kg | 0 | * | 0 | | 10 | 118 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8151A **Datafile :** PS027907.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164060BS | DICAMBA | 166.6 | 160 | ug/Kg | 96 | | | | 72 | 129 | |
| | DICHLORPROP | 166.6 | 170 | ug/Kg | 102 | | | | 77 | 135 | |
| | 2,4-D | 166.6 | 197 | ug/Kg | 118 | | | | 65 | 144 | |
| | 2,4,5-TP(Silvex) | 166.6 | 176 | ug/Kg | 106 | | | | 74 | 146 | |
| | 2,4,5-T | 166.6 | 164 | ug/Kg | 98 | | | | 77 | 134 | |
| | 2,4-DB | 166.6 | 186 | ug/Kg | 112 | | | | 72 | 122 | |
| | Dinoseb | 166.6 | 162 | ug/Kg | 97 | | | | 74 | 132 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164060BL

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab Sample ID: PB164060BL Lab File ID: PS027906.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/11/2024

Date Analyzed (1): 10/11/2024 Date Analyzed (2): 10/11/2024

Time Analyzed (1): 17:39 Time Analyzed (2): 17:39

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 |
|---|---|---|---|---|
| PB164060BS | PB164060BS | PS027907.D | 10/11/2024 | 10/11/2024 |
| Chamberlain Ave | P4258-03 | PS027908.D | 10/11/2024 | 10/11/2024 |
| SP-1MS | P4385-02MS | PS027910.D | 10/11/2024 | 10/11/2024 |
| SP-1MSD | P4385-02MSD | PS027911.D | 10/11/2024 | 10/11/2024 |

COMMENTS:

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | PB164060BL | SDG No.: | P4258 |
| Lab Sample ID: | PB164060BL | Matrix: | SOIL |
| Analytical Method: | SW8151A | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | 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 |
|---|---|---|---|---|
| PS027906.D | 1 | 10/11/24 08:31 | 10/11/24 17:39 | PB164060 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 8.70 | U | 8.70 | 67.0 | ug/Kg |
| 120-36-5 | DICHLORPROP | 9.50 | U | 9.50 | 67.0 | ug/Kg |
| 94-75-7 | 2,4-D | 12.1 | U | 12.1 | 67.0 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 9.40 | U | 9.40 | 67.0 | ug/Kg |
| 93-76-5 | 2,4,5-T | 10.1 | U | 10.1 | 67.0 | ug/Kg |
| 94-82-6 | 2,4-DB | 18.3 | U | 18.3 | 67.0 | ug/Kg |
| 88-85-7 | DINOSEB | 12.4 | U | 12.4 | 67.0 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 487 | | 10 - 141 | 97% | 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: | Roman E&G Corp | Date Collected: | 10/07/24 |
| Project: | Perth Amboy | Date Received: | 10/07/24 |
| Client Sample ID: | PIBLK-PS027854.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PS027854.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | 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 |
|---|---|---|---|---|
| PS027854.D | 1 | | 10/07/24 | PS100724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.42 | U | 0.42 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.43 | U | 0.43 | 2.00 | ug/L |
| 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 |
| 93-76-5 | 2,4,5-T | 0.50 | U | 0.50 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.57 | U | 0.57 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.55 | U | 0.55 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 510 | | 39 - 175 | 102% | SPK: 500 |

Comments:

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() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/11/24 |
| Project: | Perth Amboy | Date Received: | 10/11/24 |
| Client Sample ID: | PIBLK-PS027904.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PS027904.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | 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 |
|---|---|---|---|---|
| PS027904.D | 1 | | 10/11/24 | PS101124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.42 | U | 0.42 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.43 | U | 0.43 | 2.00 | ug/L |
| 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 |
| 93-76-5 | 2,4,5-T | 0.50 | U | 0.50 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.57 | U | 0.57 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.55 | U | 0.55 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 520 | | 39 - 175 | 104% | SPK: 500 |

Comments:

U = Not Detected
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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/11/24 |
| Project: | Perth Amboy | Date Received: | 10/11/24 |
| Client Sample ID: | PIBLK-PS027915.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PS027915.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | 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 |
|---|---|---|---|---|
| PS027915.D | 1 | | 10/11/24 | PS101124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.42 | U | 0.42 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.43 | U | 0.43 | 2.00 | ug/L |
| 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 |
| 93-76-5 | 2,4,5-T | 0.50 | U | 0.50 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.57 | U | 0.57 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.55 | U | 0.55 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 518 | | 39 - 175 | 104% | 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
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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | PB164060BS | | SDG No.: | P4258 | |
| Lab Sample ID: | PB164060BS | | Matrix: | SOIL | |
| Analytical Method: | SW8151A | | % Solid: | 100 | Decanted: |
| Sample Wt/Vol: | 30.02 | Units: g | Final Vol: | 10000 | uL |
| Soil Aliquot Vol: | | uL | Test: | 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 |
|---|---|---|---|---|
| PS027907.D | 1 | 10/11/24 08:31 | 10/11/24 18:03 | PB164060 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 160 | | 8.70 | 67.0 | ug/Kg |
| 120-36-5 | DICHLORPROP | 170 | | 9.50 | 67.0 | ug/Kg |
| 94-75-7 | 2,4-D | 197 | | 12.1 | 67.0 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 176 | | 9.40 | 67.0 | ug/Kg |
| 93-76-5 | 2,4,5-T | 164 | | 10.1 | 67.0 | ug/Kg |
| 94-82-6 | 2,4-DB | 186 | | 18.3 | 67.0 | ug/Kg |
| 88-85-7 | DINOSEB | 162 | | 12.4 | 67.0 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 590 | | 10 - 141 | 118% | SPK: 500 |

Comments:

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() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-1MS | SDG No.: | P4258 |
| Lab Sample ID: | P4385-02MS | Matrix: | SOIL |
| Analytical Method: | SW8151A | % Solid: | 93.4 Decanted: |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | 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 |
|---|---|---|---|---|
| PS027910.D | 1 | 10/11/24 08:31 | 10/11/24 19:15 | PB164060 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 94.8 | | 9.30 | 71.5 | ug/Kg |
| 120-36-5 | DICHLORPROP | 80.0 | | 10.2 | 71.5 | ug/Kg |
| 94-75-7 | 2,4-D | 102 | | 12.9 | 71.5 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 56.7 | J | 10.0 | 71.5 | ug/Kg |
| 93-76-5 | 2,4,5-T | 72.3 | | 10.8 | 71.5 | ug/Kg |
| 94-82-6 | 2,4-DB | 88.2 | P | 19.5 | 71.5 | ug/Kg |
| 88-85-7 | DINOSEB | 13.2 | U | 13.2 | 71.5 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 490 | | 10 - 141 | 98% | SPK: 500 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/10/24 |
| Project: | Perth Amboy | Date Received: | 10/10/24 |
| Client Sample ID: | SP-1MSD | SDG No.: | P4258 |
| Lab Sample ID: | P4385-02MSD | Matrix: | SOIL |
| Analytical Method: | SW8151A | % Solid: | 93.4 Decanted: |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | 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 |
|---|---|---|---|---|
| PS027911.D | 1 | 10/11/24 08:31 | 10/11/24 19:39 | PB164060 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 96.3 | | 9.30 | 71.6 | ug/Kg |
| 120-36-5 | DICHLORPROP | 81.1 | | 10.2 | 71.6 | ug/Kg |
| 94-75-7 | 2,4-D | 101 | | 12.9 | 71.6 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 55.6 | J | 10.0 | 71.6 | ug/Kg |
| 93-76-5 | 2,4,5-T | 71.4 | J | 10.8 | 71.6 | ug/Kg |
| 94-82-6 | 2,4-DB | 55.3 | J | 19.6 | 71.6 | ug/Kg |
| 88-85-7 | DINOSEB | 13.3 | U | 13.3 | 71.6 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 511 | | 10 - 141 | 102% | SPK: 500 |

Comments:

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LOQ = Limit of Quantitation
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() = Laboratory InHouse Limit

# CALIBRATION SUMMARY

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_S **Calibration Date(s):** 10/07/2024 10/07/2024

**Calibration Times:** 11:12 12:47

GC Column: RTX-CLP ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS027855.D RT 500 = PS027856.D

RT 750 = PS027857.D RT 1000 = PS027858.D RT 1500 = PS027859.D

| COMPOUND | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-T | 9.33 | 9.32 | 9.32 | 9.32 | 9.32 | 9.32 | 9.22 | 9.42 |
| 2,4,5-TP(Silvex) | 9.04 | 9.04 | 9.04 | 9.04 | 9.04 | 9.04 | 8.94 | 9.14 |
| 2,4-D | 8.19 | 8.19 | 8.19 | 8.19 | 8.19 | 8.19 | 8.09 | 8.29 |
| 2,4-DB | 9.89 | 9.89 | 9.89 | 9.89 | 9.88 | 9.89 | 9.79 | 9.99 |
| 2,4-DCAA | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.00 | 7.20 |
| DICAMBA | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.18 | 7.38 |
| DICHLORPROP | 7.97 | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 7.86 | 8.06 |
| Dinoseb | 11.07 | 11.06 | 11.06 | 11.06 | 11.06 | 11.06 | 10.96 | 11.16 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_S **Calibration Date(s):** 10/07/2024 10/07/2024

**Calibration Times:** 11:12 12:47

GC Column: RTX-CLP2 ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS027855.D RT 500 = PS027856.D

RT 750 = PS027857.D RT 1000 = PS027858.D RT 1500 = PS027859.D

| COMPOUND | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-T | 10.16 | 10.16 | 10.16 | 10.16 | 10.16 | 10.16 | 10.06 | 10.26 |
| 2,4,5-TP(Silvex) | 9.74 | 9.74 | 9.74 | 9.75 | 9.74 | 9.74 | 9.64 | 9.84 |
| 2,4-D | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 8.75 | 8.95 |
| 2,4-DB | 10.72 | 10.72 | 10.72 | 10.72 | 10.72 | 10.72 | 10.62 | 10.82 |
| 2,4-DCAA | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.53 | 7.73 |
| DICAMBA | 7.82 | 7.82 | 7.82 | 7.82 | 7.82 | 7.82 | 7.72 | 7.92 |
| DICHLORPROP | 8.53 | 8.53 | 8.53 | 8.53 | 8.53 | 8.53 | 8.43 | 8.63 |
| Dinoseb | 11.09 | 11.09 | 11.09 | 11.10 | 11.10 | 11.09 | 10.99 | 11.19 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_S **Calibration Date(s):** 10/07/2024 10/07/2024

**Calibration Times:** 11:12 12:47

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 200 =** PS027855.D **CF 500 =** PS027856.D

**CF 750 =** PS027857.D **CF 1000 =** PS027858.D **CF 1500 =** PS027859.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-T | 18343600000 | 16688400000 | 15979100000 | 15233500000 | 14618600000 | 16172600000 | 9 |
| 2,4,5-TP(Silvex) | 17880800000 | 16295200000 | 15561300000 | 14860800000 | 14230700000 | 15765800000 | 9 |
| 2,4-D | 4035830000 | 3400610000 | 3232540000 | 3118050000 | 3033140000 | 3364040000 | 12 |
| 2,4-DB | 2919030000 | 2604920000 | 2538650000 | 2470580000 | 2435210000 | 2593680000 | 7 |
| 2,4-DCAA | 3212120000 | 2729210000 | 2603700000 | 2494650000 | 2431770000 | 2694290000 | 12 |
| DICAMBA | 12294700000 | 11042300000 | 10774300000 | 10345200000 | 10089200000 | 10909100000 | 8 |
| DICHLORPROP | 3386110000 | 2901560000 | 2764510000 | 2668690000 | 2587880000 | 2861750000 | 11 |
| Dinoseb | 12428700000 | 10842500000 | 10254000000 | 9696060000 | 9493690000 | 10543000000 | 11 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_S **Calibration Date(s):** 10/07/2024 10/07/2024

**Calibration Times:** 11:12 12:47

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 200 =** PS027855.D **CF 500 =** PS027856.D

**CF 750 =** PS027857.D **CF 1000 =** PS027858.D **CF 1500 =** PS027859.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-T | 4247070000 | 4175740000 | 4737450000 | 3839740000 | 4526220000 | 4305240000 | 8 |
| 2,4,5-TP(Silvex) | 4779860000 | 4999670000 | 5205360000 | 4527870000 | 5258550000 | 4954260000 | 6 |
| 2,4-D | 1095340000 | 1009530000 | 1028930000 | 859895000 | 1017690000 | 1002280000 | 9 |
| 2,4-DB | 511522000 | 522251000 | 524993000 | 441664000 | 531313000 | 506349000 | 7 |
| 2,4-DCAA | 1083730000 | 982125000 | 983055000 | 920328000 | 999193000 | 993686000 | 6 |
| DICAMBA | 3377710000 | 3467820000 | 3634070000 | 3257360000 | 3648910000 | 3477170000 | 5 |
| DICHLORPROP | 1101380000 | 970842000 | 1031010000 | 847032000 | 984460000 | 986945000 | 9 |
| Dinoseb | 3358670000 | 3406870000 | 3546900000 | 3079720000 | 3498040000 | 3378040000 | 5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/11/2024 **Initial Calibration Date(s):** 10/07/2024 10/07/2024

**Continuing Calib Time:** 10:37 **Initial Calibration Time(s):** 11:12 12:47

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.27 | 7.28 | 7.18 | 7.38 | 0.01 |
| 2,4-DCAA | 7.10 | 7.10 | 7.00 | 7.20 | 0.01 |
| DICHLORPROP | 7.96 | 7.96 | 7.86 | 8.06 | 0.00 |
| 2,4-D | 8.18 | 8.19 | 8.09 | 8.29 | 0.01 |
| 2,4,5-TP(Silvex) | 9.03 | 9.04 | 8.94 | 9.14 | 0.01 |
| 2,4,5-T | 9.32 | 9.32 | 9.22 | 9.42 | 0.00 |
| 2,4-DB | 9.88 | 9.89 | 9.79 | 9.99 | 0.01 |
| Dinoseb | 11.06 | 11.06 | 10.96 | 11.16 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/11/2024 **Initial Calibration Date(s):** 10/07/2024 10/07/2024

**Continuing Calib Time:** 10:37 **Initial Calibration Time(s):** 11:12 12:47

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.82 | 7.82 | 7.72 | 7.92 | 0.00 |
| 2,4-DCAA | 7.62 | 7.63 | 7.53 | 7.73 | 0.01 |
| DICHLORPROP | 8.52 | 8.53 | 8.43 | 8.63 | 0.01 |
| 2,4-D | 8.85 | 8.85 | 8.75 | 8.95 | 0.00 |
| 2,4,5-TP(Silvex) | 9.74 | 9.74 | 9.64 | 9.84 | 0.00 |
| 2,4,5-T | 10.15 | 10.16 | 10.06 | 10.26 | 0.01 |
| 2,4-DB | 10.71 | 10.72 | 10.62 | 10.82 | 0.01 |
| Dinoseb | 11.09 | 11.09 | 10.99 | 11.19 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/07/2024 10/07/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/11/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS027905.D **Time Analyzed:** 10:37

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.318 | 9.223 | 9.423 | 719.450 | 712.500 | 1.0 |
| 2,4,5-TP(Silvex) | 9.034 | 8.938 | 9.138 | 717.440 | 712.500 | 0.7 |
| 2,4-D | 8.181 | 8.085 | 8.285 | 686.600 | 705.000 | -2.6 |
| 2,4-DB | 9.881 | 9.785 | 9.985 | 702.270 | 712.500 | -1.4 |
| 2,4-DCAA | 7.095 | 6.998 | 7.198 | 735.100 | 750.000 | -2.0 |
| DICAMBA | 7.274 | 7.177 | 7.377 | 705.590 | 705.000 | 0.1 |
| DICHLORPROP | 7.959 | 7.863 | 8.063 | 695.860 | 705.000 | -1.3 |
| Dinoseb | 11.057 | 10.961 | 11.161 | 707.700 | 705.000 | 0.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/07/2024 10/07/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/11/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS027905.D **Time Analyzed:** 10:37

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.153 | 10.058 | 10.258 | 708.250 | 712.500 | -0.6 |
| 2,4,5-TP(Silvex) | 9.739 | 9.643 | 9.843 | 721.720 | 712.500 | 1.3 |
| 2,4-D | 8.849 | 8.752 | 8.952 | 672.380 | 705.000 | -4.6 |
| 2,4-DB | 10.714 | 10.619 | 10.819 | 705.100 | 712.500 | -1.0 |
| 2,4-DCAA | 7.622 | 7.528 | 7.728 | 698.610 | 750.000 | -6.9 |
| DICAMBA | 7.817 | 7.722 | 7.922 | 732.660 | 705.000 | 3.9 |
| DICHLORPROP | 8.524 | 8.428 | 8.628 | 690.830 | 705.000 | -2.0 |
| Dinoseb | 11.088 | 10.993 | 11.193 | 705.540 | 705.000 | 0.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/11/2024 **Initial Calibration Date(s):** 10/07/2024 10/07/2024

**Continuing Calib Time:** 21:38 **Initial Calibration Time(s):** 11:12 12:47

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.27 | 7.28 | 7.18 | 7.38 | 0.01 |
| 2,4-DCAA | 7.10 | 7.10 | 7.00 | 7.20 | 0.01 |
| DICHLORPROP | 7.96 | 7.96 | 7.86 | 8.06 | 0.00 |
| 2,4-D | 8.18 | 8.19 | 8.09 | 8.29 | 0.01 |
| 2,4,5-TP(Silvex) | 9.04 | 9.04 | 8.94 | 9.14 | 0.01 |
| 2,4,5-T | 9.32 | 9.32 | 9.22 | 9.42 | 0.00 |
| 2,4-DB | 9.88 | 9.89 | 9.79 | 9.99 | 0.01 |
| Dinoseb | 11.06 | 11.06 | 10.96 | 11.16 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/11/2024 **Initial Calibration Date(s):** 10/07/2024 10/07/2024

**Continuing Calib Time:** 21:38 **Initial Calibration Time(s):** 11:12 12:47

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.82 | 7.82 | 7.72 | 7.92 | 0.00 |
| 2,4-DCAA | 7.62 | 7.63 | 7.53 | 7.73 | 0.01 |
| DICHLORPROP | 8.52 | 8.53 | 8.43 | 8.63 | 0.01 |
| 2,4-D | 8.85 | 8.85 | 8.75 | 8.95 | 0.00 |
| 2,4,5-TP(Silvex) | 9.74 | 9.74 | 9.64 | 9.84 | 0.00 |
| 2,4,5-T | 10.15 | 10.16 | 10.06 | 10.26 | 0.01 |
| 2,4-DB | 10.71 | 10.72 | 10.62 | 10.82 | 0.01 |
| Dinoseb | 11.09 | 11.09 | 10.99 | 11.19 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/07/2024 10/07/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/11/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS027916.D **Time Analyzed:** 21:38

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.319 | 9.223 | 9.423 | 723.470 | 712.500 | 1.5 |
| 2,4,5-TP(Silvex) | 9.035 | 8.938 | 9.138 | 715.280 | 712.500 | 0.4 |
| 2,4-D | 8.182 | 8.085 | 8.285 | 691.690 | 705.000 | -1.9 |
| 2,4-DB | 9.881 | 9.785 | 9.985 | 706.900 | 712.500 | -0.8 |
| 2,4-DCAA | 7.095 | 6.998 | 7.198 | 738.190 | 750.000 | -1.6 |
| DICAMBA | 7.274 | 7.177 | 7.377 | 705.560 | 705.000 | 0.1 |
| DICHLORPROP | 7.959 | 7.863 | 8.063 | 697.370 | 705.000 | -1.1 |
| Dinoseb | 11.057 | 10.961 | 11.161 | 717.240 | 705.000 | 1.7 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/07/2024 10/07/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/11/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS027916.D **Time Analyzed:** 21:38

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.153 | 10.058 | 10.258 | 720.170 | 712.500 | 1.1 |
| 2,4,5-TP(Silvex) | 9.739 | 9.643 | 9.843 | 701.080 | 712.500 | -1.6 |
| 2,4-D | 8.848 | 8.752 | 8.952 | 705.930 | 705.000 | 0.1 |
| 2,4-DB | 10.713 | 10.619 | 10.819 | 697.420 | 712.500 | -2.1 |
| 2,4-DCAA | 7.623 | 7.528 | 7.728 | 675.590 | 750.000 | -9.9 |
| DICAMBA | 7.817 | 7.722 | 7.922 | 708.800 | 705.000 | 0.5 |
| DICHLORPROP | 8.524 | 8.428 | 8.628 | 679.310 | 705.000 | -3.6 |
| Dinoseb | 11.089 | 10.993 | 11.193 | 702.130 | 705.000 | -0.4 |

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# Analytical Sequence

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **Instrument ID:** ECD_S

**GC Column:** RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/07/2024 10/07/2024

**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 | 10/07/2024 | 10:14 | PS027854.D | 7.10 | 0.00 |
| HSTDICC200 | HSTDICC200 | 10/07/2024 | 11:12 | PS027855.D | 7.10 | 0.00 |
| HSTDICC500 | HSTDICC500 | 10/07/2024 | 11:36 | PS027856.D | 7.10 | 0.00 |
| HSTDICC750 | HSTDICC750 | 10/07/2024 | 12:00 | PS027857.D | 7.10 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 10/07/2024 | 12:23 | PS027858.D | 7.10 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 10/07/2024 | 12:47 | PS027859.D | 7.10 | 0.00 |
| I.BLK | I.BLK | 10/11/2024 | 10:13 | PS027904.D | 7.10 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 10/11/2024 | 10:37 | PS027905.D | 7.10 | 0.00 |
| PB164060BL | PB164060BL | 10/11/2024 | 17:39 | PS027906.D | 7.10 | 0.00 |
| PB164060BS | PB164060BS | 10/11/2024 | 18:03 | PS027907.D | 7.10 | 0.00 |
| Chamberlain Ave | P4258-03 | 10/11/2024 | 18:27 | PS027908.D | 7.10 | 0.00 |
| SP-1MS | P4385-02MS | 10/11/2024 | 19:15 | PS027910.D | 7.09 | 0.00 |
| SP-1MSD | P4385-02MSD | 10/11/2024 | 19:39 | PS027911.D | 7.09 | 0.00 |
| I.BLK | I.BLK | 10/11/2024 | 21:14 | PS027915.D | 7.10 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 10/11/2024 | 21:38 | PS027916.D | 7.10 | 0.00 |

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# Analytical Sequence

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **Instrument ID:** ECD_S

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/07/2024 10/07/2024

**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 | 10/07/2024 | 10:14 | PS027854.D | 7.63 | 0.00 |
| HSTDICC200 | HSTDICC200 | 10/07/2024 | 11:12 | PS027855.D | 7.63 | 0.00 |
| HSTDICC500 | HSTDICC500 | 10/07/2024 | 11:36 | PS027856.D | 7.63 | 0.00 |
| HSTDICC750 | HSTDICC750 | 10/07/2024 | 12:00 | PS027857.D | 7.63 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 10/07/2024 | 12:23 | PS027858.D | 7.63 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 10/07/2024 | 12:47 | PS027859.D | 7.63 | 0.00 |
| I.BLK | I.BLK | 10/11/2024 | 10:13 | PS027904.D | 7.62 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 10/11/2024 | 10:37 | PS027905.D | 7.62 | 0.00 |
| PB164060BL | PB164060BL | 10/11/2024 | 17:39 | PS027906.D | 7.62 | 0.00 |
| PB164060BS | PB164060BS | 10/11/2024 | 18:03 | PS027907.D | 7.62 | 0.00 |
| Chamberlain Ave | P4258-03 | 10/11/2024 | 18:27 | PS027908.D | 7.62 | 0.00 |
| SP-1MS | P4385-02MS | 10/11/2024 | 19:15 | PS027910.D | 7.62 | 0.00 |
| SP-1MSD | P4385-02MSD | 10/11/2024 | 19:39 | PS027911.D | 7.62 | 0.00 |
| I.BLK | I.BLK | 10/11/2024 | 21:14 | PS027915.D | 7.62 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 10/11/2024 | 21:38 | PS027916.D | 7.62 | 0.00 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB164060BS**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** PB164060BS **Date(s) Analyzed:** 10/11/2024 10/11/2024

**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 | 176 | 1.1 |
| | 2 | 9.74 | 9.69 | 9.79 | 174 | |
| 2,4,5-T | 1 | 9.32 | 9.27 | 9.37 | 164 | 1.2 |
| | 2 | 10.15 | 10.10 | 10.20 | 162 | |
| DICHLORPROP | 1 | 7.96 | 7.91 | 8.01 | 168 | 1.2 |
| | 2 | 8.53 | 8.48 | 8.58 | 170 | |
| 2,4-D | 1 | 8.18 | 8.13 | 8.23 | 178 | 10.1 |
| | 2 | 8.85 | 8.80 | 8.90 | 197 | |
| 2,4-DB | 1 | 9.88 | 9.83 | 9.93 | 170 | 9 |
| | 2 | 10.72 | 10.67 | 10.77 | 186 | |
| Dinoseb | 1 | 11.06 | 11.01 | 11.11 | 162 | 0 |
| | 2 | 11.09 | 11.04 | 11.14 | 162 | |
| DICAMBA | 1 | 7.28 | 7.23 | 7.33 | 160 | 7.1 |
| | 2 | 7.82 | 7.77 | 7.87 | 149 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**SP-1MS**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** P4385-02MS **Date(s) Analyzed:** 10/11/2024 10/11/2024

**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-T | 1 | 9.32 | 9.27 | 9.37 | 72.3 | 2.2 |
| | 2 | 10.15 | 10.10 | 10.20 | 70.7 | |
| 2,4,5-TP(Silvex) | 1 | 9.03 | 8.98 | 9.08 | 56.7 | 9.8 |
| | 2 | 9.74 | 9.69 | 9.79 | 51.4 | |
| 2,4-D | 1 | 8.18 | 8.13 | 8.23 | 98.4 | 3.6 |
| | 2 | 8.85 | 8.80 | 8.90 | 102 | |
| 2,4-DB | 1 | 9.88 | 9.83 | 9.93 | 88.2 | 40.7 |
| | 2 | 10.71 | 10.66 | 10.76 | 58.4 | |
| DICHLORPROP | 1 | 7.96 | 7.91 | 8.01 | 79.7 | 0.4 |
| | 2 | 8.52 | 8.47 | 8.57 | 80.0 | |
| DICAMBA | 1 | 7.27 | 7.22 | 7.32 | 94.8 | 20.3 |
| | 2 | 7.82 | 7.77 | 7.87 | 77.3 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**SP-1MSD**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** P4385-02MSD **Date(s) Analyzed:** 10/11/2024 10/11/2024

**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 |
|---|---|---|---|---|---|---|
| DICHLORPROP | 1 | 7.96 | 7.91 | 8.01 | 78.9 | 2.7 |
| | 2 | 8.53 | 8.48 | 8.58 | 81.1 | |
| 2,4-D | 1 | 8.18 | 8.13 | 8.23 | 99.7 | 1.3 |
| | 2 | 8.85 | 8.80 | 8.90 | 101 | |
| 2,4,5-TP(Silvex) | 1 | 9.03 | 8.98 | 9.08 | 55.6 | 15.7 |
| | 2 | 9.74 | 9.69 | 9.79 | 47.5 | |
| 2,4,5-T | 1 | 9.32 | 9.27 | 9.37 | 71.4 | 0.1 |
| | 2 | 10.15 | 10.10 | 10.20 | 71.3 | |
| 2,4-DB | 1 | 9.88 | 9.83 | 9.93 | 52.4 | 5.4 |
| | 2 | 10.71 | 10.66 | 10.76 | 55.3 | |
| DICAMBA | 1 | 7.27 | 7.22 | 7.32 | 96.3 | 20.5 |
| | 2 | 7.82 | 7.77 | 7.87 | 78.4 | |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027908.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 18:27
Operator : AR\AJ
Sample : P4258-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 00:55:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 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 | 7.095 | 7.623 | 692.9E6 | 188.5E6 | 257.161m | 189.677m# |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

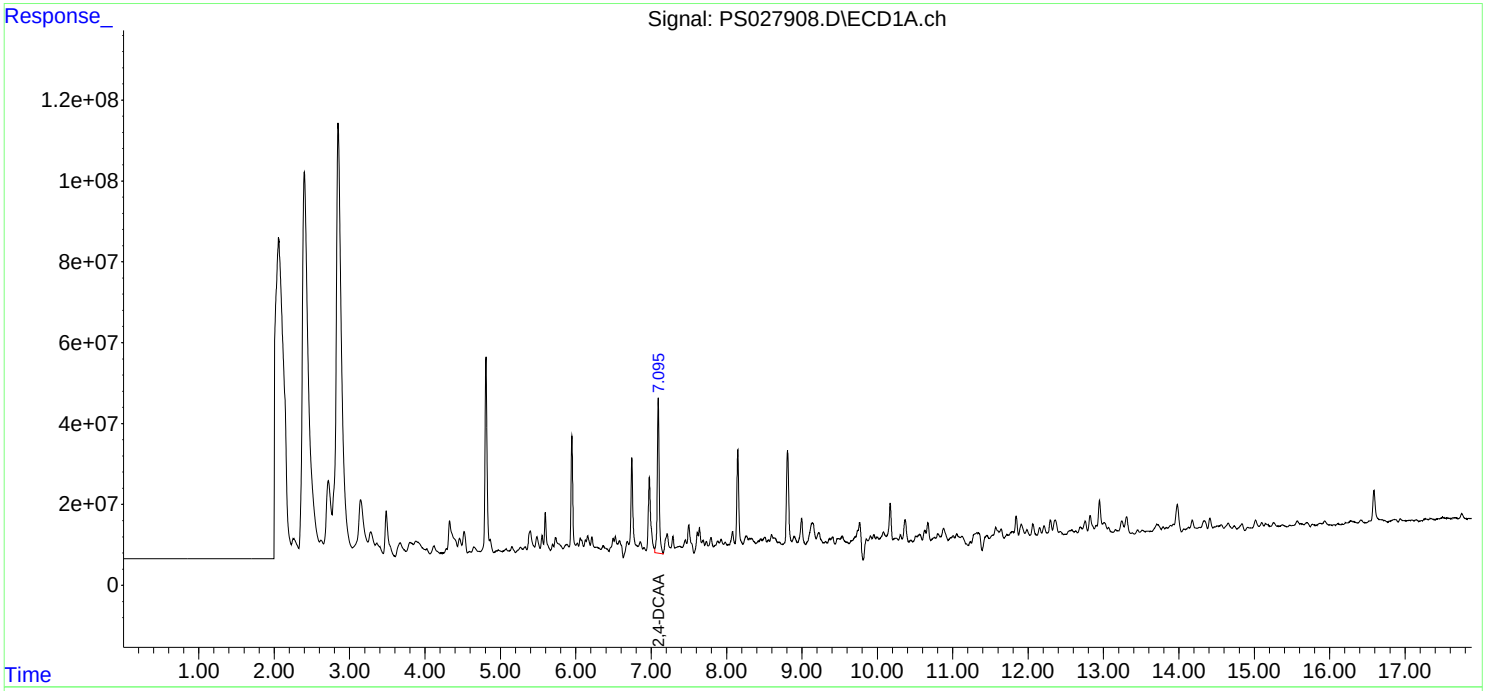
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027908.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 18:27
Operator : AR\AJ
Sample : P4258-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

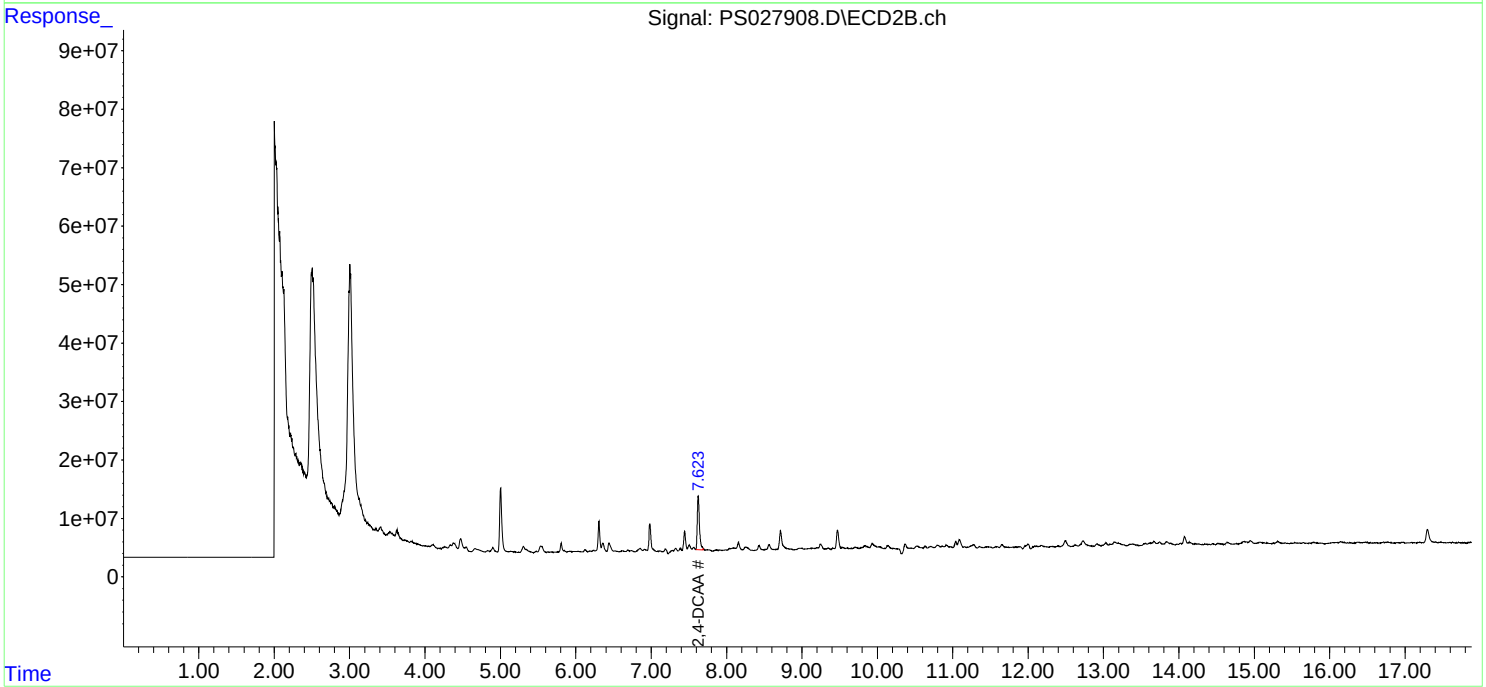
**Instrument :**
ECD_S
**ClientSampleId :**
Chamberlain Ave

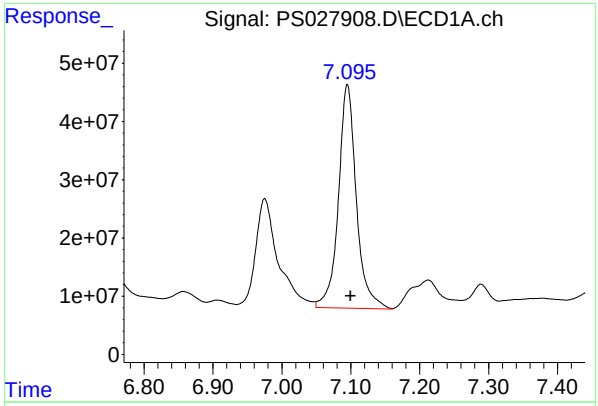
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 00:55:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 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





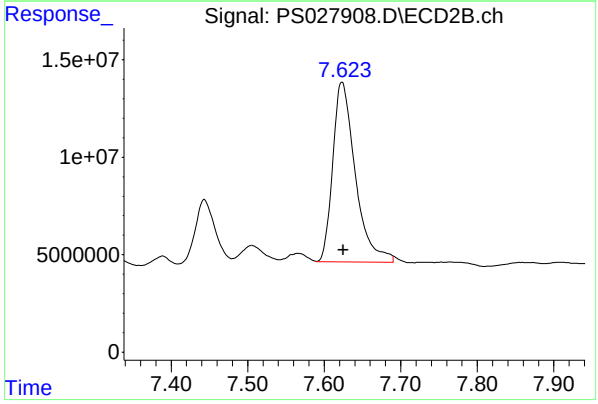

#4 2,4-DCAA

R.T.: 7.095 min
Delta R.T.: -0.006 mi
Response: 692867099
Conc: 257.16 ng/m

**Instrument :**
ECD_S
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024




#4 2,4-DCAA

R.T.: 7.623 min
Delta R.T.: -0.002 min
Response: 188479567
Conc: 189.68 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027906.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 17:39
Operator : AR\AJ
Sample : PB164060BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 00:53:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
Response via : Initial Calibration
Integrator: ChemStation

**Instrument :**
ECD_S
**ClientSampleId :**
PB164060BL

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza

10/14/2024
Supervised By :Ankita Jodhani

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 | 7.097 | 7.621 | 1311.1E6 | 433.4E6 | 486.620m | 436.190 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027906.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 17:39
Operator : AR\AJ
Sample : PB164060BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 00:53:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
Response via : Initial Calibration
Integrator: ChemStation

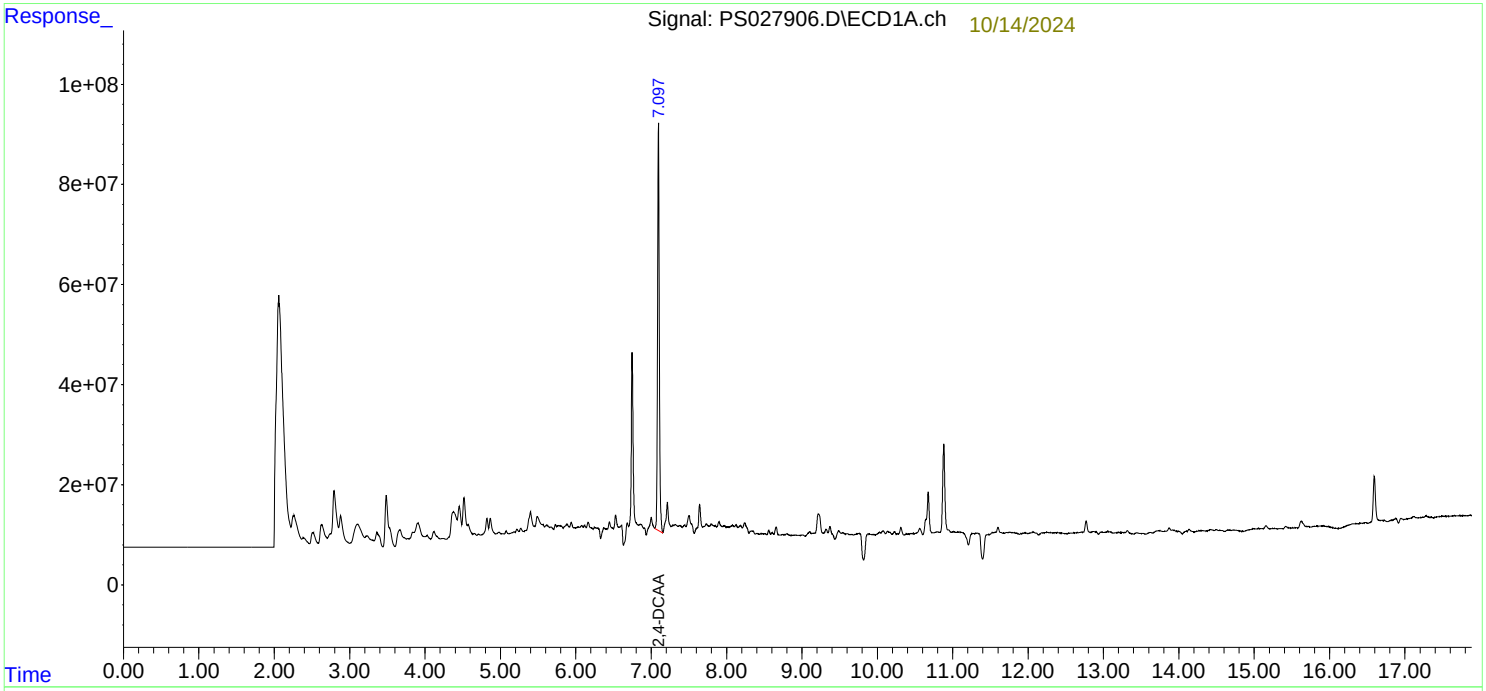
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

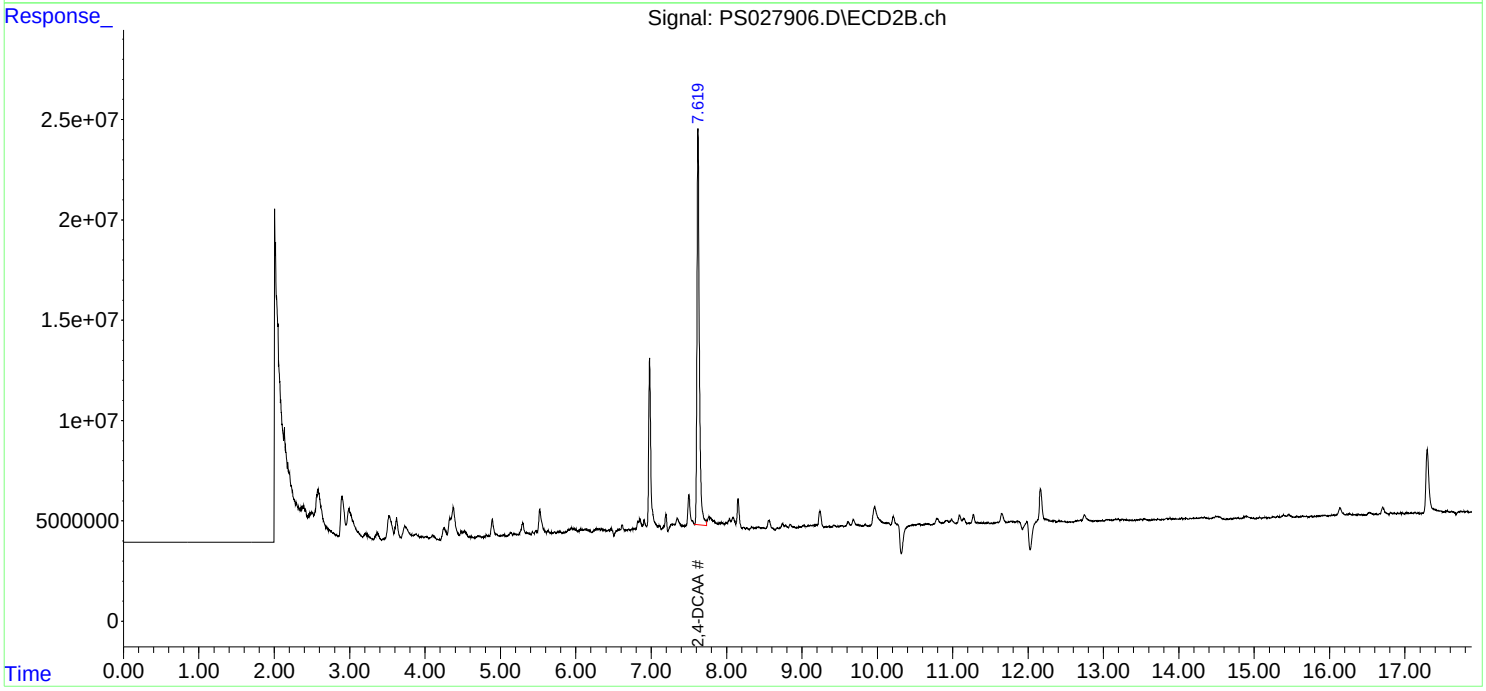
**Instrument :**
ECD_S
**ClientSampleId :**
PB164060BL

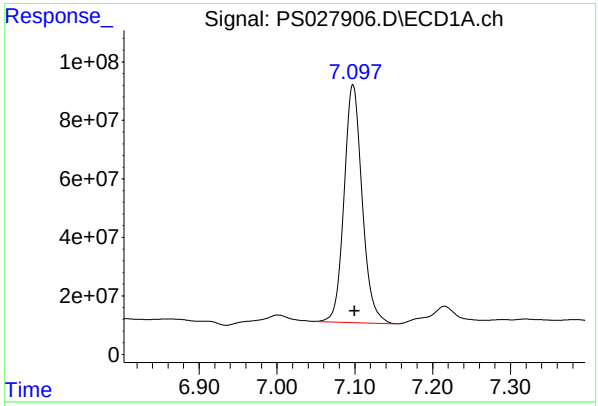
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza

10/14/2024
Supervised By :Ankita Jodhani





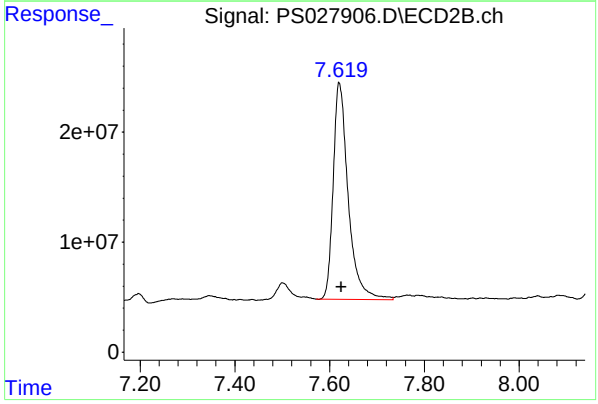

#4 2,4-DCAA

R.T.: 7.097 min
Delta R.T.: -0.003 min
Response: 1311096342
Conc: 486.62 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB164060BL

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza




#4 2,4-DCAA

R.T.: 7.621 min
Delta R.T.: -0.004 min
Response: 433435994
Conc: 436.19 ng/ml

10/14/2024
Supervised By :Ankita Jodhani

10/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027907.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 18:03
Operator : AR\AJ
Sample : PB164060BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
PB164060BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 00:54:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 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 | 7.096 | 7.624 | 1588.7E6 | 528.9E6 | 589.656 | 532.227 |
| | | Target Compounds | | | | | | |
| 1) | T | Dalapon | 2.545 | 2.625 | 1850.5E6 | 719.1E6 | 412.335 | 431.702 |
| 2) | T | 3,5-DICHL... | 6.287 | 6.595 | 1954.8E6 | 690.3E6 | 492.135 | 504.825 |
| 3) | T | 4-Nitroph... | 6.891 | 7.159 | 859.6E6 | 291.1E6 | 470.790 | 428.834 |
| 5) | T | DICAMBA | 7.275 | 7.819 | 5229.5E6 | 1558.0E6 | 479.373 | 448.070 |
| 6) | T | MCPP | 7.452 | 7.920 | 347.3E6 | 142.5E6 | 46.703 | 51.785 |
| 7) | T | MCPA | 7.597 | 8.160 | 511.9E6 | 254.5E6 | 48.329 | 50.883 |
| 8) | T | DICHLORPROP | 7.960 | 8.525 | 1445.9E6 | 503.8E6 | 505.265 | 510.515 |
| 9) | T | 2,4-D | 8.182 | 8.850 | 1797.1E6 | 593.1E6 | 534.219 | 591.749 |
| 10) | T | Pentachlo... | 8.469 | 9.362 | 20373.9E6 | 6874.9E6 | 524.374 | 497.500 |
| 11) | T | 2,4,5-TP ... | 9.034 | 9.739 | 8317.7E6 | 2594.3E6 | 527.577 | 523.642 |
| 12) | T | 2,4,5-T | 9.320 | 10.154 | 7955.3E6 | 2092.8E6 | 491.900 | 486.106 |
| 13) | T | 2,4-DB | 9.883 | 10.715 | 1319.8E6 | 282.0E6 | 508.869 | 556.866 |
| 14) | T | DINOSEB | 11.058 | 11.089 | 5131.7E6 | 1642.3E6 | 486.742 | 486.180 |
| 15) | T | Picloram | 10.874 | 12.163 | 8774.5E6 | 1658.1E6 | 407.595 | 396.930 |
| 16) | T | DCPA | 11.356 | 12.121 | 9812.7E6 | 3059.1E6 | 552.490 | 637.274 |

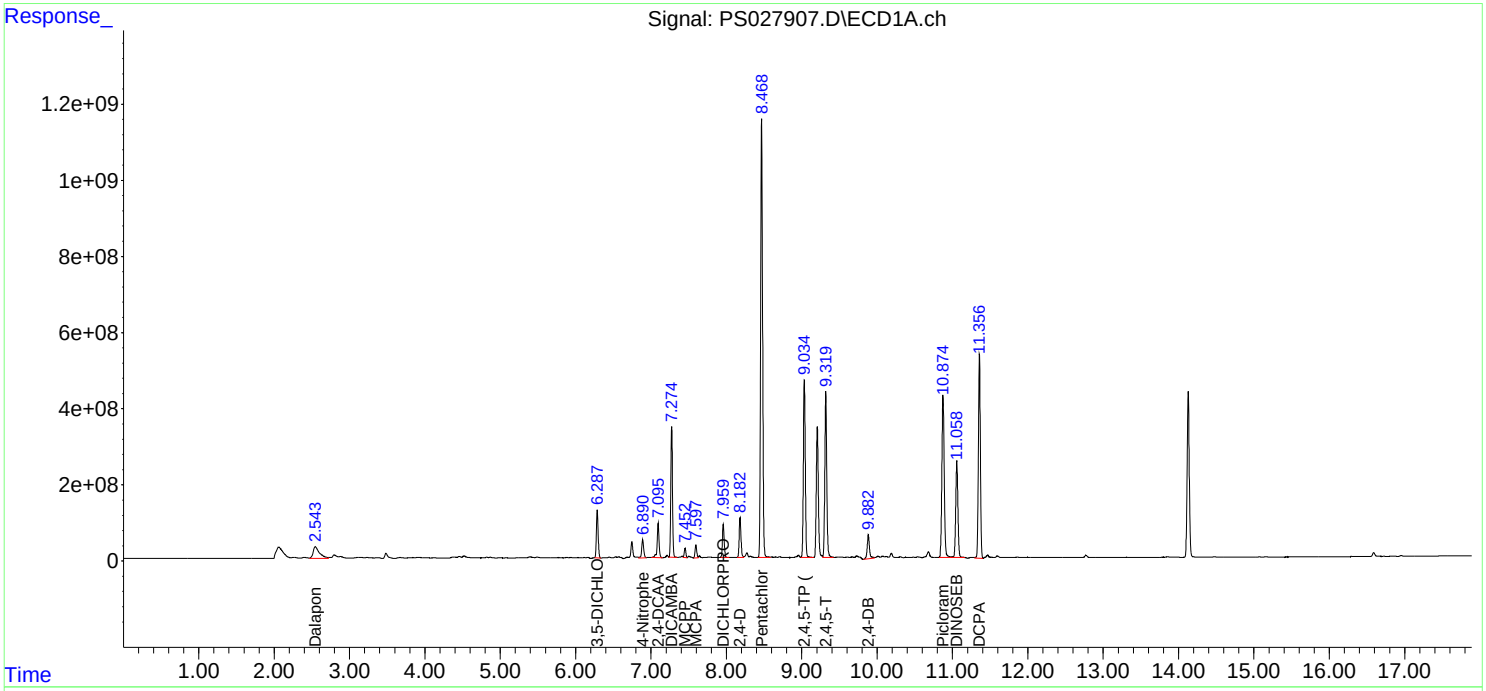
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

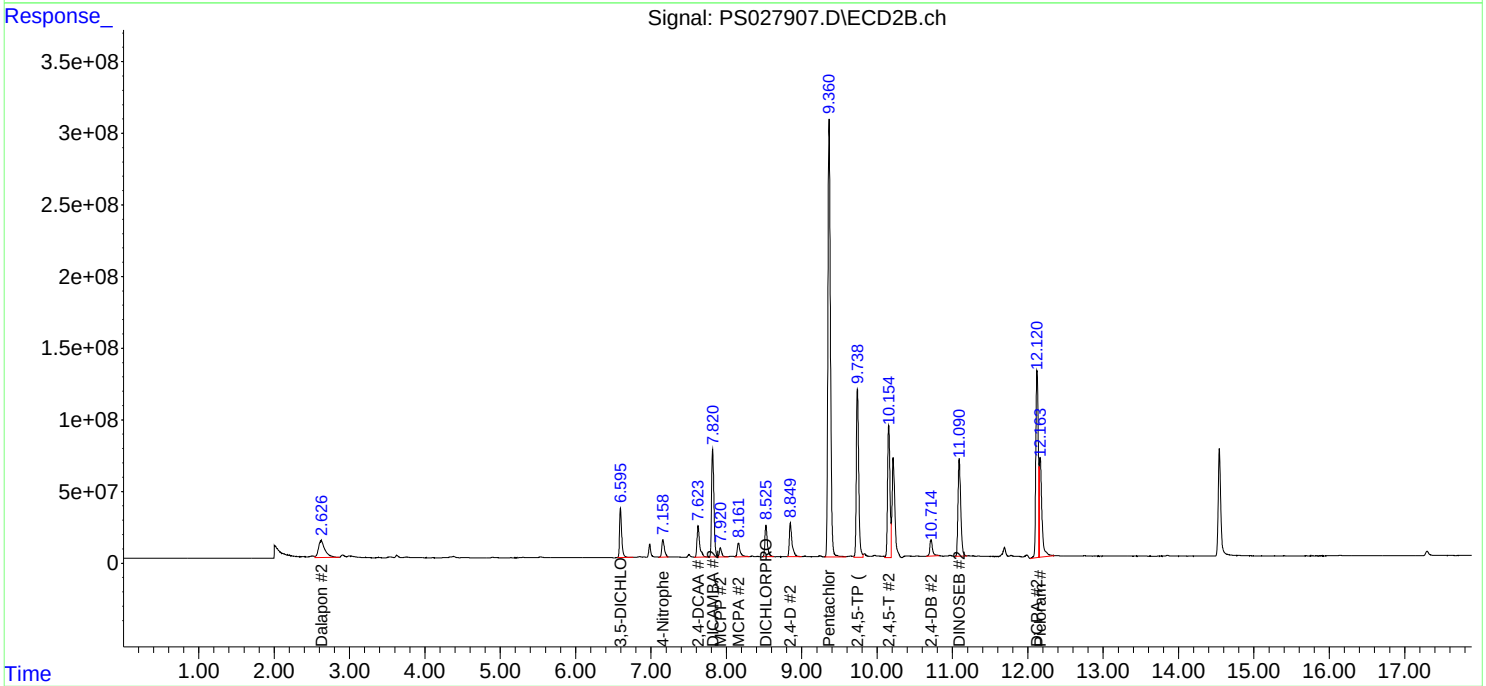
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027907.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 18:03
Operator : AR\AJ
Sample : PB164060BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
PB164060BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 00:54:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 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\PS101124\
Data File : PS027910.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 19:15
Operator : AR\AJ
Sample : P4385-02MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
SP-1MS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 03:02:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 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 | 7.094 | 7.624 | 1320.3E6 | 358.7E6 | 490.050m | 360.991m# |
| | Target Compounds | | | | | | |
| 1) T | Dalapon | 2.545 | 2.607 | 1471.7E6 | 426.7E6 | 327.918 | 256.163m |
| 2) T | 3,5-DICHL... | 6.287 | 6.597 | 908.1E6 | 281.9E6 | 228.615 | 206.147 |
| 3) T | 4-Nitroph... | 6.890 | 7.160 | 293.7E6 | 90780179 | 160.874m | 133.738m |
| 5) T | DICAMBA | 7.274 | 7.818 | 2905.6E6 | 755.5E6 | 266.341 | 217.288 |
| 6) T | MCPP | 7.449 | 7.918 | 158.4E6 | 49023483 | 21.295 | 17.812 |
| 7) T | MCPA | 7.595 | 8.158 | 320.3E6 | 166.7E6 | 30.242 | 33.326 |
| 8) T | DICHLORPROP | 7.959 | 8.524 | 640.5E6 | 221.9E6 | 223.817 | 224.885 |
| 9) T | 2,4-D | 8.182 | 8.849 | 930.4E6 | 286.0E6 | 276.580 | 285.305 |
| 10) T | Pentachlo... | 8.468 | 9.363 | 4810.7E6 | 1183.0E6 | 123.815 | 85.610 # |
| 11) T | 2,4,5-TP ... | 9.034 | 9.739 | 2512.6E6 | 715.2E6 | 159.370 | 144.368 |
| 12) T | 2,4,5-T | 9.319 | 10.152 | 3283.0E6 | 854.7E6 | 202.998 | 198.523 |
| 13) T | 2,4-DB | 9.883 | 10.712 | 642.4E6 | 83053881 | 247.671 | 164.025 # |
| 14) T | DINOSEB | 11.057 | 11.091 | 245.5E6 | 90440272 | 23.286m | 26.773 |
| 15) T | Picloram | 10.874 | 12.165 | 5187.3E6 | 891.5E6 | 240.960 | 213.411 |
| 16) T | DCPA | 11.355 | 12.121 | 6139.1E6 | 1735.0E6 | 345.651m | 361.437 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

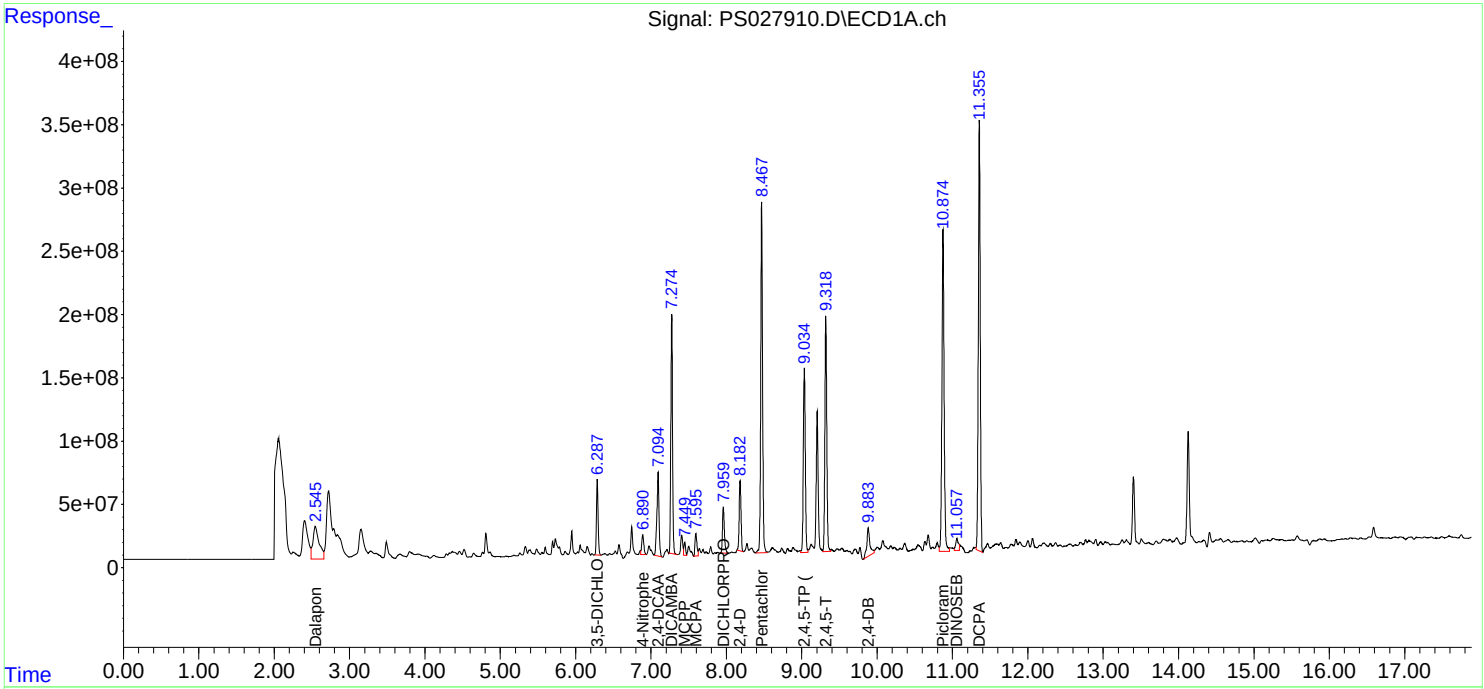
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027910.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 19:15
Operator : AR\AJ
Sample : P4385-02MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

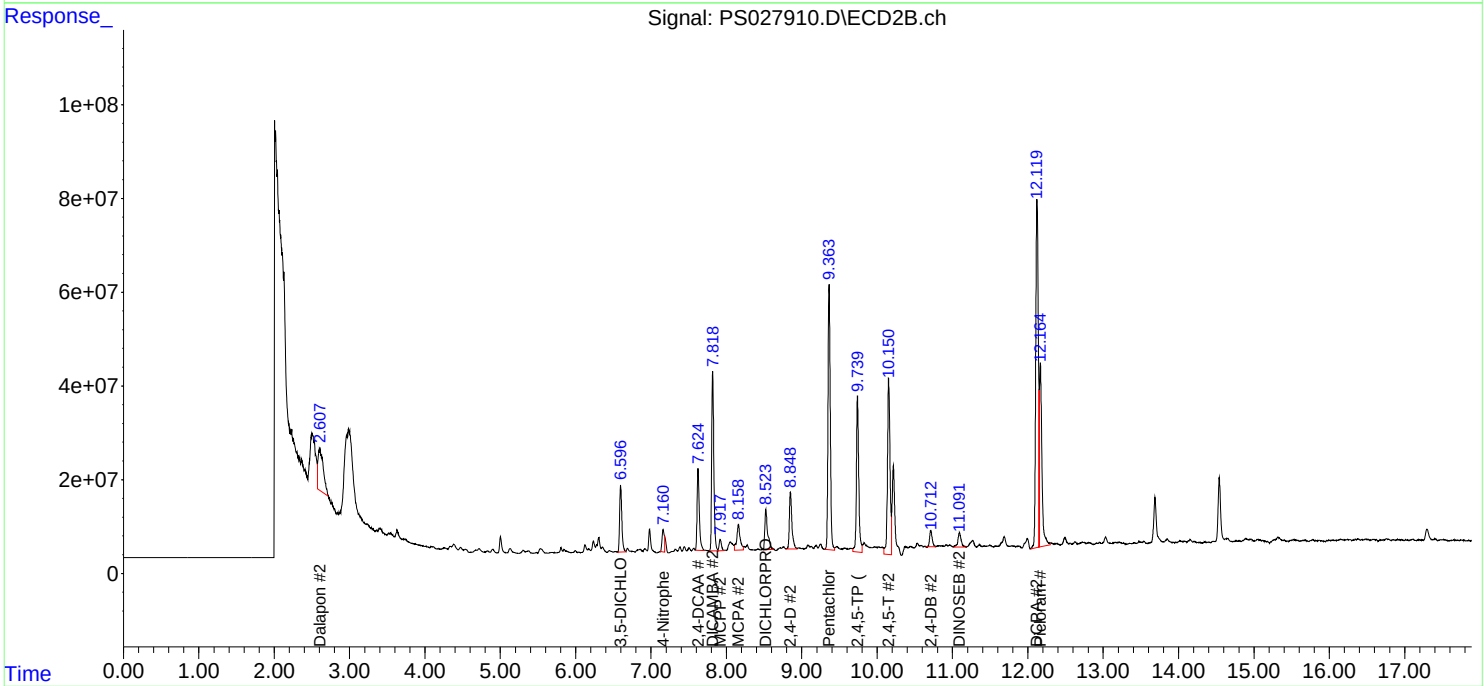
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 03:02:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

**Instrument :**
ECD_S
**ClientSampleId :**
SP-1MS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027911.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 19:39
Operator : AR\AJ
Sample : P4385-02MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
SP-1MSD

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 03:03:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 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 | 7.623 | 1375.7E6 | 368.2E6 | 510.592m | 370.560m# |
| | | Target Compounds | | | | | | |
| 1) | T | Dalapon | 2.545 | 2.615 | 1491.5E6 | 450.6E6 | 332.347 | 270.542m |
| 2) | T | 3,5-DICHL... | 6.287 | 6.595 | 916.0E6 | 286.0E6 | 230.609 | 209.116 |
| 3) | T | 4-Nitroph... | 6.890 | 7.158 | 301.1E6 | 108.2E6 | 164.920m | 159.379m |
| 5) | T | DICAMBA | 7.274 | 7.819 | 2948.6E6 | 765.0E6 | 270.288 | 220.017 |
| 6) | T | MCPP | 7.449 | 7.918 | 159.2E6 | 51743334 | 21.413 | 18.800 |
| 7) | T | MCPA | 7.595 | 8.160 | 321.7E6 | 121.5E6 | 30.375 | 24.280m |
| 8) | T | DICHLORPROP | 7.960 | 8.525 | 633.7E6 | 224.7E6 | 221.439 | 227.645 |
| 9) | T | 2,4-D | 8.182 | 8.851 | 941.3E6 | 284.5E6 | 279.800 | 283.877 |
| 10) | T | Pentachlo... | 8.468 | 9.363 | 4669.3E6 | 1167.6E6 | 120.177 | 84.495 # |
| 11) | T | 2,4,5-TP ... | 9.034 | 9.739 | 2458.8E6 | 660.5E6 | 155.955 | 133.313 |
| 12) | T | 2,4,5-T | 9.319 | 10.153 | 3240.6E6 | 861.7E6 | 200.374 | 200.160 |
| 13) | T | 2,4-DB | 9.882 | 10.714 | 381.8E6 | 78540468 | 147.189m | 155.111 |
| 14) | T | DINOSEB | 11.056 | 11.088 | 135.6E6 | 90336221 | 12.862m | 26.742 # |
| 15) | T | Picloram | 10.873 | 12.163 | 5324.2E6 | 869.1E6 | 247.323 | 208.055m |
| 16) | T | DCPA | 11.356 | 12.123 | 6572.2E6 | 1825.9E6 | 370.036 | 380.363m |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

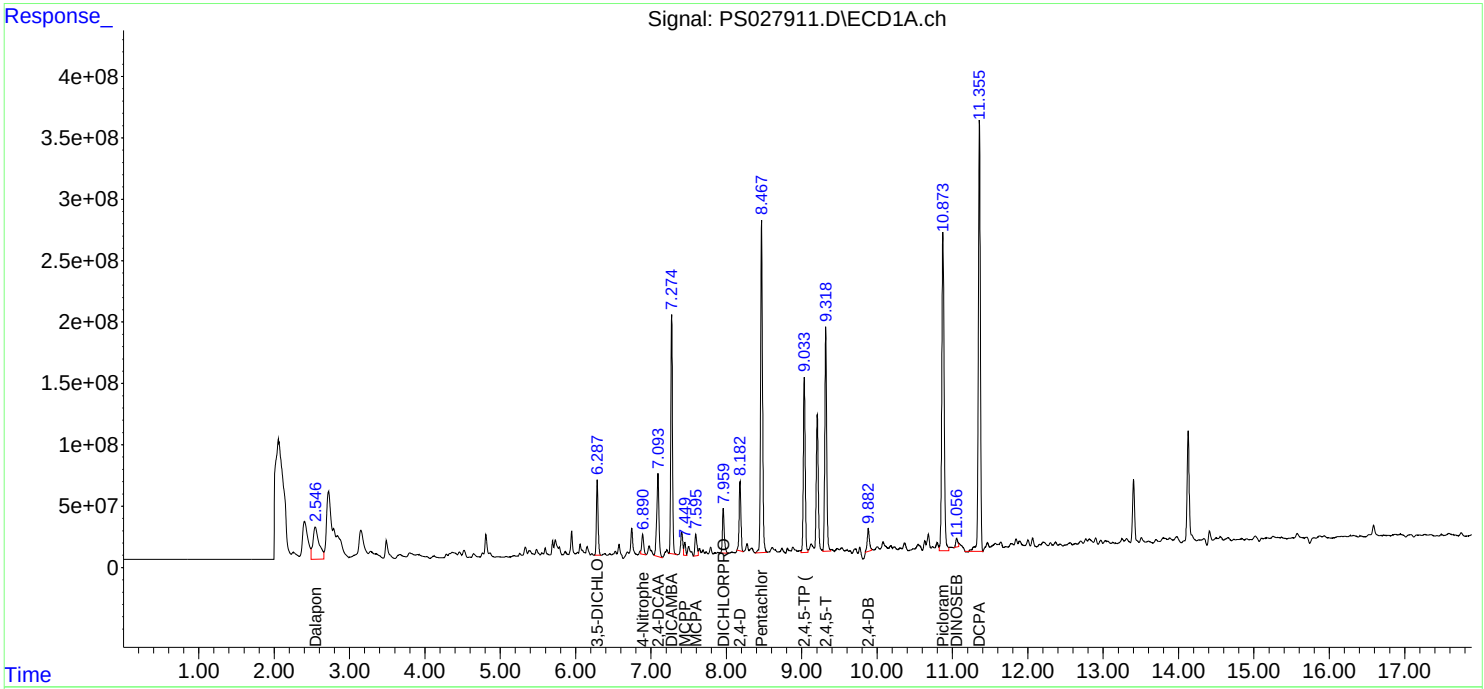
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027911.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 19:39
Operator : AR\AJ
Sample : P4385-02MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

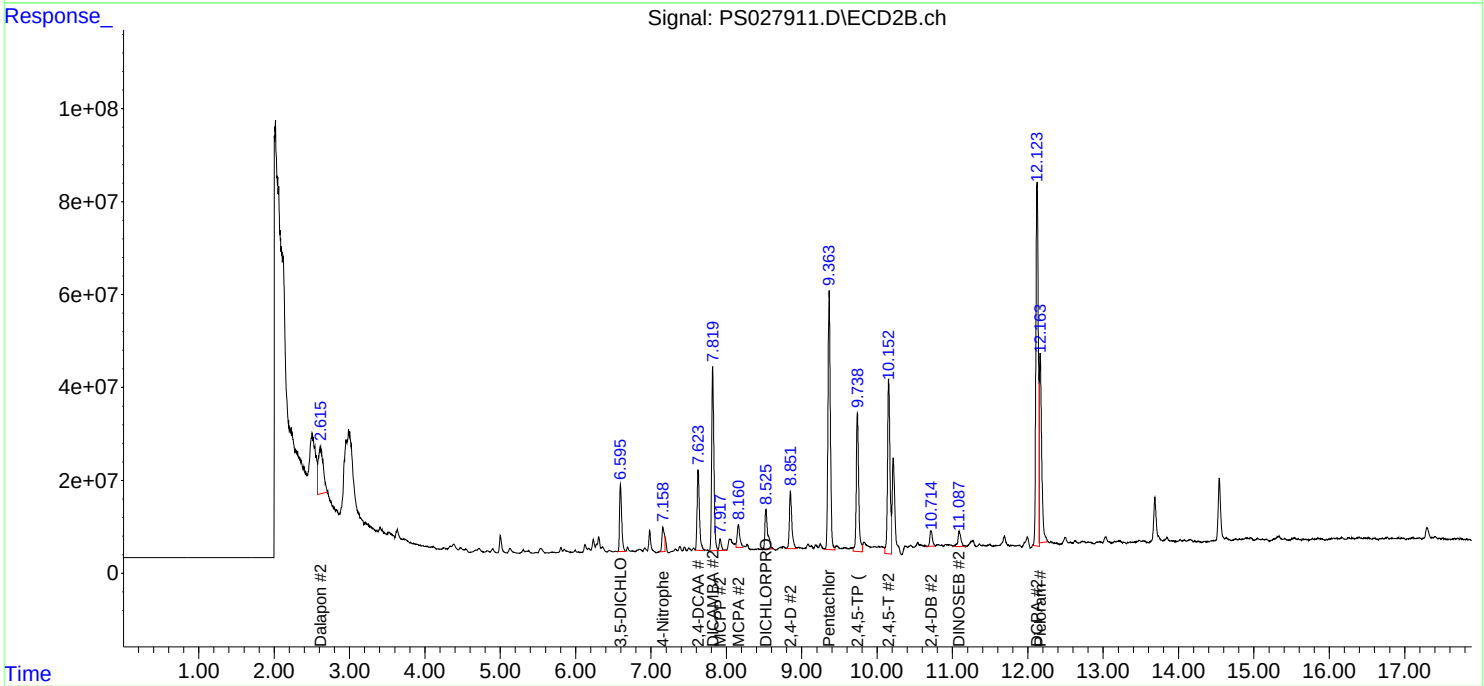
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 03:03:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

**Instrument :**
ECD_S
**ClientSampleId :**
SP-1MSD

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



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# Manual Integration Report

| Sequence: | PS100724 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| HSTDICC200 | PS027855.D | 2,4-D | Abdul | 10/8/2024 8:25:23 AM | Ankita | 10/8/2024 9:52:08 | Peak Integrated by Software |
| HSTDICC200 | PS027855.D | Dalapon | Abdul | 10/8/2024 8:25:23 AM | Ankita | 10/8/2024 9:52:08 | Peak Integrated by Software |
| HSTDICC1000 | PS027858.D | 2,4-DCAA | Abdul | 10/8/2024 8:25:27 AM | Ankita | 10/8/2024 9:52:10 | Peak Integrated by Software |
| HSTDICC1000 | PS027858.D | MCPP | Abdul | 10/8/2024 8:25:27 AM | Ankita | 10/8/2024 9:52:10 | Peak Integrated by Software |
| HSTDCCC750 | PS027867.D | 2,4-DCAA #2 | Abdul | 10/8/2024 8:25:38 AM | Ankita | 10/8/2024 9:52:17 | Peak Integrated by Software |
| HSTDCCC750 | PS027867.D | Dalapon #2 | Abdul | 10/8/2024 8:25:38 AM | Ankita | 10/8/2024 9:52:17 | Peak Integrated by Software |
| HSTDCCC750 | PS027872.D | 2,4-DCAA #2 | Abdul | 10/8/2024 8:25:57 AM | Ankita | 10/8/2024 9:52:23 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PS101124 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| HSTDCCC750 | PS027905.D | 2,4-DCAA #2 | Abdul | 10/14/2024 8:40:04 AM | Ankita | 10/14/2024 9:20:35 | Peak Integrated by Software |
| HSTDCCC750 | PS027905.D | DCPA #2 | Abdul | 10/14/2024 8:40:04 AM | Ankita | 10/14/2024 9:20:35 | Peak Integrated by Software |
| PB164060BL | PS027906.D | 2,4-DCAA | Abdul | 10/14/2024 8:40:07 AM | Ankita | 10/14/2024 9:20:36 | Peak Integrated by Software |
| P4258-03 | PS027908.D | 2,4-DCAA | Abdul | 10/14/2024 8:40:10 AM | Ankita | 10/14/2024 9:20:38 | Peak Integrated by Software |
| P4258-03 | PS027908.D | 2,4-DCAA #2 | Abdul | 10/14/2024 8:40:10 AM | Ankita | 10/14/2024 9:20:38 | Peak Integrated by Software |
| P4385-02MS | PS027910.D | 2,4-DCAA | Abdul | 10/14/2024 4:25:48 PM | Ankita | 10/14/2024 4:27:02 | Peak Integrated by Software |
| P4385-02MS | PS027910.D | 2,4-DCAA #2 | Abdul | 10/14/2024 4:25:48 PM | Ankita | 10/14/2024 4:27:02 | Peak Integrated by Software |
| P4385-02MS | PS027910.D | 4-Nitrophenol | Abdul | 10/14/2024 4:25:48 PM | Ankita | 10/14/2024 4:27:02 | Peak Integrated by Software |
| P4385-02MS | PS027910.D | 4-Nitrophenol #2 | Abdul | 10/14/2024 4:25:48 PM | Ankita | 10/14/2024 4:27:02 | Peak Integrated by Software |
| P4385-02MS | PS027910.D | Dalapon #2 | Abdul | 10/14/2024 4:25:48 PM | Ankita | 10/14/2024 4:27:02 | Peak Integrated by Software |
| P4385-02MS | PS027910.D | DCPA | Abdul | 10/14/2024 4:25:48 PM | Ankita | 10/14/2024 4:27:02 | Peak Integrated by Software |
| P4385-02MS | PS027910.D | DINOSEB | Abdul | 10/14/2024 4:25:48 PM | Ankita | 10/14/2024 4:27:02 | Peak Integrated by Software |
| P4385-02MSD | PS027911.D | 2,4-DB | Abdul | 10/14/2024 4:25:50 PM | Ankita | 10/14/2024 4:27:04 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PS101124 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4385-02MSD | PS027911.D | 2,4-DCAA | Abdul | 10/14/2024 4:25:50 PM | Ankita | 10/14/2024 4:27:04 | Peak Integrated by Software |
| P4385-02MSD | PS027911.D | 2,4-DCAA #2 | Abdul | 10/14/2024 4:25:50 PM | Ankita | 10/14/2024 4:27:04 | Peak Integrated by Software |
| P4385-02MSD | PS027911.D | 4-Nitrophenol | Abdul | 10/14/2024 4:25:50 PM | Ankita | 10/14/2024 4:27:04 | Peak Integrated by Software |
| P4385-02MSD | PS027911.D | 4-Nitrophenol #2 | Abdul | 10/14/2024 4:25:50 PM | Ankita | 10/14/2024 4:27:04 | Peak Integrated by Software |
| P4385-02MSD | PS027911.D | Dalapon #2 | Abdul | 10/14/2024 4:25:50 PM | Ankita | 10/14/2024 4:27:04 | Peak Integrated by Software |
| P4385-02MSD | PS027911.D | DCPA #2 | Abdul | 10/14/2024 4:25:50 PM | Ankita | 10/14/2024 4:27:04 | Peak Integrated by Software |
| P4385-02MSD | PS027911.D | DINOSEB | Abdul | 10/14/2024 4:25:50 PM | Ankita | 10/14/2024 4:27:04 | Peak Integrated by Software |
| P4385-02MSD | PS027911.D | MCPA #2 | Abdul | 10/14/2024 4:25:50 PM | Ankita | 10/14/2024 4:27:04 | Peak Integrated by Software |
| P4385-02MSD | PS027911.D | Picloram #2 | Abdul | 10/14/2024 4:25:50 PM | Ankita | 10/14/2024 4:27:04 | Peak Integrated by Software |
| HSTDCCC750 | PS027916.D | 2,4-DCAA #2 | Abdul | 10/14/2024 8:40:49 AM | Ankita | 10/14/2024 9:20:47 | Peak Integrated by Software |

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**Instrument ID: ECD_S**

## Daily Analysis Runlog For Sequence/QCBatch ID # PS100724

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/8/2024 8:26:19 AM | | |
| Supervise By | Ankita | Supervise On | 10/8/2024 9:52:35 AM | | |
| SubDirectory | PS100724 | HP Acquire Method | | HP Processing Method | ps100724 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 | PS027853.D | 07 Oct 2024 09:50 | AR\AJ | Ok |
| 2 | I.BLK | PS027854.D | 07 Oct 2024 10:14 | AR\AJ | Ok |
| 3 | HSTDICC200 | PS027855.D | 07 Oct 2024 11:12 | AR\AJ | Ok,M |
| 4 | HSTDICC500 | PS027856.D | 07 Oct 2024 11:36 | AR\AJ | Ok |
| 5 | HSTDICC750 | PS027857.D | 07 Oct 2024 12:00 | AR\AJ | Ok |
| 6 | HSTDICC1000 | PS027858.D | 07 Oct 2024 12:23 | AR\AJ | Ok,M |
| 7 | HSTDICC1500 | PS027859.D | 07 Oct 2024 12:47 | AR\AJ | Ok |
| 8 | HSTDICV750 | PS027860.D | 07 Oct 2024 13:11 | AR\AJ | Ok |
| 9 | I.BLK | PS027861.D | 07 Oct 2024 13:38 | AR\AJ | Ok |
| 10 | HSTDCCC750 | PS027862.D | 07 Oct 2024 14:02 | AR\AJ | Ok |
| 11 | P4232-01RE | PS027863.D | 07 Oct 2024 14:26 | AR\AJ | Confirms |
| 12 | PB163901BL | PS027864.D | 07 Oct 2024 14:50 | AR\AJ | Ok |
| 13 | PB163901BS | PS027865.D | 07 Oct 2024 15:48 | AR\AJ | Ok,M |
| 14 | I.BLK | PS027866.D | 07 Oct 2024 16:12 | AR\AJ | Ok |
| 15 | HSTDCCC750 | PS027867.D | 07 Oct 2024 16:35 | AR\AJ | Ok,M |
| 16 | PB163901BSD | PS027868.D | 07 Oct 2024 16:59 | AR\AJ | Ok,M |
| 17 | P4274-01 | PS027869.D | 07 Oct 2024 17:23 | AR\AJ | Ok,M |
| 18 | P4285-03 | PS027870.D | 07 Oct 2024 17:47 | AR\AJ | Ok,M |
| 19 | I.BLK | PS027871.D | 07 Oct 2024 18:11 | AR\AJ | Ok |
| 20 | HSTDCCC750 | PS027872.D | 07 Oct 2024 18:35 | AR\AJ | Ok,M |

M : Manual Integration

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Fax : 908 789 8922



**Instrument ID: ECD_S**

## Daily Analysis Runlog For Sequence/QCBatch ID # PS101124

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/14/2024 8:41:15 AM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:21:00 AM | | |
| SubDirectory | PS101124 | HP Acquire Method | | HP Processing Method | ps100724 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 | PS027903.D | 11 Oct 2024 09:49 | AR\AJ | Ok |
| 2 | I.BLK | PS027904.D | 11 Oct 2024 10:13 | AR\AJ | Ok |
| 3 | HSTDCCC750 | PS027905.D | 11 Oct 2024 10:37 | AR\AJ | Ok,M |
| 4 | PB164060BL | PS027906.D | 11 Oct 2024 17:39 | AR\AJ | Ok,M |
| 5 | PB164060BS | PS027907.D | 11 Oct 2024 18:03 | AR\AJ | Ok |
| 6 | P4258-03 | PS027908.D | 11 Oct 2024 18:27 | AR\AJ | Ok,M |
| 7 | P4385-02 | PS027909.D | 11 Oct 2024 18:51 | AR\AJ | Ok,M |
| 8 | P4385-02MS | PS027910.D | 11 Oct 2024 19:15 | AR\AJ | Ok,M |
| 9 | P4385-02MSD | PS027911.D | 11 Oct 2024 19:39 | AR\AJ | Ok,M |
| 10 | P4385-04 | PS027912.D | 11 Oct 2024 20:02 | AR\AJ | Ok,M |
| 11 | P4385-06 | PS027913.D | 11 Oct 2024 20:26 | AR\AJ | Ok,M |
| 12 | P4385-08 | PS027914.D | 11 Oct 2024 20:50 | AR\AJ | Ok,M |
| 13 | I.BLK | PS027915.D | 11 Oct 2024 21:14 | AR\AJ | Ok |
| 14 | HSTDCCC750 | PS027916.D | 11 Oct 2024 21:38 | AR\AJ | Ok,M |

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Fax : 908 789 8922



**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS100724

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/8/2024 8:26:19 AM | | |
| Supervise By | Ankita | Supervise On | 10/8/2024 9:52:35 AM | | |
| SubDirectory | PS100724 | HP Acquire Method | | HP Processing Method | ps100724 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 | PS027853.D | 07 Oct 2024 09:50 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PS027854.D | 07 Oct 2024 10:14 | | AR\AJ | Ok |
| 3 | HSTDICC200 | HSTDICC200 | PS027855.D | 07 Oct 2024 11:12 | | AR\AJ | Ok,M |
| 4 | HSTDICC500 | HSTDICC500 | PS027856.D | 07 Oct 2024 11:36 | | AR\AJ | Ok |
| 5 | HSTDICC750 | HSTDICC750 | PS027857.D | 07 Oct 2024 12:00 | | AR\AJ | Ok |
| 6 | HSTDICC1000 | HSTDICC1000 | PS027858.D | 07 Oct 2024 12:23 | | AR\AJ | Ok,M |
| 7 | HSTDICC1500 | HSTDICC1500 | PS027859.D | 07 Oct 2024 12:47 | | AR\AJ | Ok |
| 8 | HSTDICV750 | ICVPS100724 | PS027860.D | 07 Oct 2024 13:11 | | AR\AJ | Ok |
| 9 | I.BLK | I.BLK | PS027861.D | 07 Oct 2024 13:38 | | AR\AJ | Ok |
| 10 | HSTDCCC750 | HSTDCCC750 | PS027862.D | 07 Oct 2024 14:02 | | AR\AJ | Ok |
| 11 | P4232-01RE | TP-RRE | PS027863.D | 07 Oct 2024 14:26 | 2,4-DCAA low 2nd col | AR\AJ | Confirms |
| 12 | PB163901BL | PB163901BL | PS027864.D | 07 Oct 2024 14:50 | | AR\AJ | Ok |
| 13 | PB163901BS | PB163901BS | PS027865.D | 07 Oct 2024 15:48 | | AR\AJ | Ok,M |
| 14 | I.BLK | I.BLK | PS027866.D | 07 Oct 2024 16:12 | | AR\AJ | Ok |
| 15 | HSTDCCC750 | HSTDCCC750 | PS027867.D | 07 Oct 2024 16:35 | | AR\AJ | Ok,M |
| 16 | PB163901BSD | PB163901BSD | PS027868.D | 07 Oct 2024 16:59 | | AR\AJ | Ok,M |
| 17 | P4274-01 | 222254 | PS027869.D | 07 Oct 2024 17:23 | | AR\AJ | Ok,M |
| 18 | P4285-03 | WATER-TOTES | PS027870.D | 07 Oct 2024 17:47 | | AR\AJ | Ok,M |

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Fax : 908 789 8922



**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS100724

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/8/2024 8:26:19 AM | | |
| Supervise By | Ankita | Supervise On | 10/8/2024 9:52:35 AM | | |
| SubDirectory | PS100724 | HP Acquire Method | | HP Processing Method | ps100724 8151 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469 |
| CCC | PP23462 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23469 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | I.BLK | I.BLK | PS027871.D | 07 Oct 2024 18:11 | | AR\AJ | Ok |
| 20 | HSTDCCC750 | HSTDCCC750 | PS027872.D | 07 Oct 2024 18:35 | | AR\AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS101124

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/14/2024 8:41:15 AM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:21:00 AM | | |
| SubDirectory | PS101124 | HP Acquire Method | | HP Processing Method | ps100724 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 | PS027903.D | 11 Oct 2024 09:49 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PS027904.D | 11 Oct 2024 10:13 | | AR\AJ | Ok |
| 3 | HSTDCCC750 | HSTDCCC750 | PS027905.D | 11 Oct 2024 10:37 | | AR\AJ | Ok,M |
| 4 | PB164060BL | PB164060BL | PS027906.D | 11 Oct 2024 17:39 | | AR\AJ | Ok,M |
| 5 | PB164060BS | PB164060BS | PS027907.D | 11 Oct 2024 18:03 | | AR\AJ | Ok |
| 6 | P4258-03 | Chamberlain Ave | PS027908.D | 11 Oct 2024 18:27 | | AR\AJ | Ok,M |
| 7 | P4385-02 | SP-1 | PS027909.D | 11 Oct 2024 18:51 | | AR\AJ | Ok,M |
| 8 | P4385-02MS | SP-1MS | PS027910.D | 11 Oct 2024 19:15 | Some compound recovery fail | AR\AJ | Ok,M |
| 9 | P4385-02MSD | SP-1MSD | PS027911.D | 11 Oct 2024 19:39 | Some compound recovery fail , RPD 2,4-DB is high | AR\AJ | Ok,M |
| 10 | P4385-04 | SP-2 | PS027912.D | 11 Oct 2024 20:02 | | AR\AJ | Ok,M |
| 11 | P4385-06 | SP-3 | PS027913.D | 11 Oct 2024 20:26 | | AR\AJ | Ok,M |
| 12 | P4385-08 | SP-4 | PS027914.D | 11 Oct 2024 20:50 | | AR\AJ | Ok,M |
| 13 | I.BLK | I.BLK | PS027915.D | 11 Oct 2024 21:14 | | AR\AJ | Ok |
| 14 | HSTDCCC750 | HSTDCCC750 | PS027916.D | 11 Oct 2024 21:38 | | AR\AJ | Ok,M |

M : Manual Integration

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# EXTRACTION LOGPAGE

PB164060

12

**SOP ID:** M8151A-Herbicide-22

**Clean Up SOP #:** N/A

**Matrix :** Solid

**Weigh By:** EH

**Balance check:** RJ

**Balance ID:** EX-SC-2

**pH Strip Lot#:** E3574

**Extraction By:** RJ

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 3,4,7

**Extraction Start Date :** 10/11/2024

**Extraction Start Time :** 08:31

**Extraction End Date :** 10/11/2024

**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 | PP23665 |
| LOD | 0.2ML | 5000 PPB | PP23699 |
| LOD | 0.3ML | 5000 PPB | PP23699 |
| LOQ | 0.4ML | 5000 PPB | PP23699 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| MeCl2/Acetone/1:1 | N/A | EP2538 |
| Acidified Na2SO4 | N/A | EP2503 |
| Sand | N/A | E2865 |
| HCL | N/A | M5892 |
| DI WATER | N/A | N/A |
| 37% KOH | N/A | EP2520 |
| Methylene Chloride | N/A | E3803 |
| 1:3 SULPHURIC ACID | N/A | EP2528 |
| Ether | N/A | E3370 |
| ISO OCTANE | N/A | E3554 |
| METHANOL | N/A | V14138 |
| Diazomethane | N/A | EP2529 |
| Hexane | N/A | E3796 |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

pH adjusted with HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze,40ML Vial Lot # 03-40 BTS721.

**KD Bath ID:** N/A

**KD Bath Temperature:** N/A

**Envap ID:** NE VAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/11/24 | RP (Ext. 2 cols) | R. Pest/PCB Lab |
| 16:35 | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB164060**

**Analytical Method:** M8151A-Herbicide-22

**Concentration Date:** 10/09/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB164060BL | HBLK060 | Herbicide | 30.01 | N/A | ritesh | Evelyn | 10 | | | U1-1 |
| PB164060BS | HLCS060 | Herbicide | 30.02 | N/A | ritesh | Evelyn | 10 | | | 2 |
| P4258-03 | CHAMBERLAIN AVE | Herbicide | 30.04 | N/A | ritesh | Evelyn | 10 | A | | 3 |
| P4368-01 | LOD-MDL-SOIL-01-QT4-2024 0.2 ML | Herbicide | 30.02 | N/A | ritesh | Evelyn | 10 | | | 4 |
| P4368-02 | LOQ-SOIL-02-QT4-2024 0.4 ML | Herbicide | 30.01 | N/A | ritesh | Evelyn | 10 | | | 5 |
| P4385-02 | SP-1 | Herbicide | 30.06 | N/A | ritesh | Evelyn | 10 | B | | 6 |
| P4385-02MS | SP-1MS | Herbicide | 30.08 | N/A | ritesh | Evelyn | 10 | B | | U7-1 |
| P4385-02MSD | SP-1MSD | Herbicide | 30.05 | N/A | ritesh | Evelyn | 10 | B | | 2 |
| P4385-04 | SP-2 | Herbicide | 30.04 | N/A | ritesh | Evelyn | 10 | B | | 3 |
| P4385-06 | SP-3 | Herbicide | 30.02 | N/A | ritesh | Evelyn | 10 | B | | 4 |
| P4385-08 | SP-4 | Herbicide | 30.09 | N/A | ritesh | Evelyn | 10 | B | | 5 |
| P4385-10 | SP-5 | Herbicide | 30.05 | N/A | ritesh | Evelyn | 10 | B | | 6 |
| P4385-12 | SP-6 | Herbicide | 30.03 | N/A | ritesh | Evelyn | 10 | B | | U5-1 |
| P4385-14 | SP-7 | Herbicide | 30.08 | N/A | ritesh | Evelyn | 10 | B | | 2 |
| P4385-16 | SP-8 | Herbicide | 30.07 | N/A | ritesh | Evelyn | 10 | B | | 3 |
| P4385-18 | SP-9 | Herbicide | 30.03 | N/A | ritesh | Evelyn | 10 | B | | 4 |
| P4385-20 | SP-10 | Herbicide | 30.06 | N/A | ritesh | Evelyn | 10 | B | | 5 |
| | LOQ 0.3 ML | | 30.00 | | | | 10 | | | 6 |

* **Extracts relinquished on the same date as received.**

164060
9-31

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P4258H **WorkList ID :** 184331 **Department :** Extraction **Date :** 10-11-2024 08:06:42

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4258-03 | Chamberlain Ave | Solid | Herbicide | Cool 4 deg C | ROMA02 | K21 | 10/01/2024 | 8151A |
| P4368-01 | LOD-MDL-SOIL-01-QT4-2024 | Solid | Herbicide | Cool 4 deg C | CHEM02 | QA Of | 10/09/2024 | 8151A |
| P4368-02 | LOQ-SOIL-02-QT4-2024 | Solid | Herbicide | Cool 4 deg C | CHEM02 | QA Of | 10/09/2024 | 8151A |
| P4385-02 | SP-1 | Solid | Herbicide | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8151A |
| P4385-04 | SP-2 | Solid | Herbicide | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8151A |
| P4385-06 | SP-3 | Solid | Herbicide | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8151A |
| P4385-08 | SP-4 | Solid | Herbicide | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8151A |
| P4385-10 | SP-5 | Solid | Herbicide | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8151A |
| P4385-12 | SP-6 | Solid | Herbicide | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8151A |
| P4385-14 | SP-7 | Solid | Herbicide | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8151A |
| P4385-16 | SP-8 | Solid | Herbicide | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8151A |
| P4385-18 | SP-9 | Solid | Herbicide | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8151A |
| P4385-20 | SP-10 | Solid | Herbicide | Cool 4 deg C | SCHE03 | K51 | 10/10/2024 | 8151A |

**Date/Time** 10/11/24 8:25
**Raw Sample Received by:** RJ (Ext Lab)
**Raw Sample Relinquished by:** JD (SM)

**Date/Time** 10/11/24 8:55
**Raw Sample Received by:** JD (SM)
**Raw Sample Relinquished by:** RJ (Ext Lab)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51,K11,K21 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-03** | **Chamberlain Ave** | **SOIL** | | | **10/01/24** | | | **10/01/24** |
| | | | Herbicide | 8151A | | 10/11/24 | 10/11/24 | |
| | | | PCB | 8082A | | 10/02/24 | 10/02/24 | |
| | | | Pesticide-TCL | 8081B | | 10/11/24 | 10/11/24 | |
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP Herbicide | 8151A | | 10/03/24 | 10/04/24 | |
| | | | TCLP Pesticide | 8081B | | 10/03/24 | 10/03/24 | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** **Order ID:**

**Client:** **Project ID:**

| Sample ID | Client ID | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|

**Client ID :**

**Total Concentration:**

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-04 | 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 |
|---|---|---|---|---|
| PS027835.D | 1 | 10/03/24 12:00 | 10/04/24 01:22 | PB163890 |

| 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 | 234 | | 39 - 175 | 47% | 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: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | 10/03/24 |
| Client Sample ID: | PB163851TB | SDG No.: | P4258 |
| Lab Sample ID: | PB163851TB | 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 |
|---|---|---|---|---|
| PS027840.D | 1 | 10/03/24 12:00 | 10/04/24 03:22 | PB163890 |

| 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 | 397 | | 39 - 175 | 79% | SPK: 500 |

Comments:

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

# QC SUMMARY

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## Surrogate Summary

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8151A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PS027652.D | PIBLK-PS027652.D | 2,4-DCAA | 1 | 500 | 496 | 99 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 524 | 105 | | 39 | 175 |
| I.BLK-PS027827.D | PIBLK-PS027827.D | 2,4-DCAA | 1 | 500 | 533 | 107 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 542 | 108 | | 39 | 175 |
| P4258-04 | Chamberlain Ave | 2,4-DCAA | 1 | 500 | 234 | 47 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 211 | 42 | | 39 | 175 |
| P4258-04MS | Chamberlain AveMS | 2,4-DCAA | 1 | 500 | 246 | 49 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 205 | 41 | | 39 | 175 |
| P4258-04MSD | Chamberlain AveMSD | 2,4-DCAA | 1 | 500 | 279 | 56 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 201 | 40 | | 39 | 175 |
| PB163890BL | PB163890BL | 2,4-DCAA | 1 | 500 | 520 | 104 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 526 | 105 | | 39 | 175 |
| PB163890BS | PB163890BS | 2,4-DCAA | 1 | 500 | 545 | 109 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 554 | 111 | | 39 | 175 |
| PB163851TB | PB163851TB | 2,4-DCAA | 1 | 500 | 397 | 79 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 343 | 69 | | 39 | 175 |
| I.BLK-PS027841.D | PIBLK-PS027841.D | 2,4-DCAA | 1 | 500 | 541 | 108 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 552 | 110 | | 39 | 175 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8151A **DataFile :** PS027836.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:** | **Chamberlain AveMS** | | | | | | | | | | | |
| P4258-04MS | 2,4-D | 50 | 0 | 59.2 | ug/L | 118 | | | | 65 | 135 | |
| | 2,4,5-TP(Silvex) | 50 | 0 | 64.6 | ug/L | 129 | | | | 62 | 139 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8151A **DataFile :** PS027837.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:** | **Chamberlain AveMSD** | | | | | | | | | | | |
| P4258-04MSD | 2,4-D | 50 | 0 | 59.4 | ug/L | 119 | | 1 | | 65 | 135 | 20 |
| | 2,4,5-TP(Silvex) | 50 | 0 | 74.4 | ug/L | 149 | * | 14 | | 62 | 139 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4258

**Client:** Roman E&G Corp

**Analytical Method:** 8151A **Datafile :** PS027839.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB163890BS | 2,4-D | 5 | 5.90 | ug/L | 118 | | | | 83 | 130 | |
| | 2,4,5-TP(Silvex) | 5 | 5.20 | ug/L | 104 | | | | 78 | 127 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163890BL

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab Sample ID: PB163890BL Lab File ID: PS027838.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/03/2024

Date Analyzed (1): 10/04/2024 Date Analyzed (2): 10/04/2024

Time Analyzed (1): 02:34 Time Analyzed (2): 02:34

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 |
|---|---|---|---|---|
| Chamberlain Ave | P4258-04 | PS027835.D | 10/04/2024 | 10/04/2024 |
| Chamberlain AveMS | P4258-04MS | PS027836.D | 10/04/2024 | 10/04/2024 |
| Chamberlain AveMSD | P4258-04MSD | PS027837.D | 10/04/2024 | 10/04/2024 |
| PB163890BS | PB163890BS | PS027839.D | 10/04/2024 | 10/04/2024 |
| PB163851TB | PB163851TB | PS027840.D | 10/04/2024 | 10/04/2024 |

COMMENTS:

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | PB163890BL | SDG No.: | P4258 |
| Lab Sample ID: | PB163890BL | 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 |
|---|---|---|---|---|
| PS027838.D | 1 | 10/03/24 12:00 | 10/04/24 02:34 | PB163890 |

| 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 | 526 | | 39 - 175 | 105% | 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: | Roman E&G Corp | Date Collected: | 09/12/24 |
| Project: | Perth Amboy | Date Received: | 09/12/24 |
| Client Sample ID: | PIBLK-PS027652.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PS027652.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 |
|---|---|---|---|---|
| PS027652.D | 1 | | 09/12/24 | ps091224 |

| 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 | 524 | | 39 - 175 | 105% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/03/24 |
| Project: | Perth Amboy | Date Received: | 10/03/24 |
| Client Sample ID: | PIBLK-PS027827.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PS027827.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 |
|---|---|---|---|---|
| PS027827.D | 1 | | 10/03/24 | PS100324 |

| 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 | 542 | | 39 - 175 | 108% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
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: | Roman E&G Corp | Date Collected: | 10/04/24 |
| Project: | Perth Amboy | Date Received: | 10/04/24 |
| Client Sample ID: | PIBLK-PS027841.D | SDG No.: | P4258 |
| Lab Sample ID: | I.BLK-PS027841.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 |
|---|---|---|---|---|
| PS027841.D | 1 | | 10/04/24 | PS100324 |

| 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 | 552 | | 39 - 175 | 110% | 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
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | PB163890BS | SDG No.: | P4258 |
| Lab Sample ID: | PB163890BS | 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 |
|---|---|---|---|---|
| PS027839.D | 1 | 10/03/24 12:00 | 10/04/24 02:58 | PB163890 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 5.90 | | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 5.20 | | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 554 | | 39 - 175 | 111% | 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain AveMS | SDG No.: | P4258 |
| Lab Sample ID: | P4258-04MS | 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 |
|---|---|---|---|---|
| PS027836.D | 1 | 10/03/24 12:00 | 10/04/24 01:46 | PB163890 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 59.2 | | 4.90 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 64.6 | P | 4.50 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 246 | | 39 - 175 | 49% | 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain AveMSD | SDG No.: | P4258 |
| Lab Sample ID: | P4258-04MSD | 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 |
|---|---|---|---|---|
| PS027837.D | 1 | 10/03/24 12:00 | 10/04/24 02:10 | PB163890 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 59.4 | | 4.90 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 74.4 | P | 4.50 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 279 | | 39 - 175 | 56% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# CALIBRATION SUMMARY

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_S **Calibration Date(s):** 09/12/2024 09/12/2024

**Calibration Times:** 21:24 22:59

GC Column: RTX-CLP ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS027653.D RT 500 = PS027654.D

RT 750 = PS027655.D RT 1000 = PS027656.D RT 1500 = PS027657.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) | 9.06 | 9.06 | 9.06 | 9.06 | 9.06 | 9.06 | 8.96 | 9.16 |
| 2,4-D | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.10 | 8.30 |
| 2,4-DCAA | 7.11 | 7.11 | 7.11 | 7.11 | 7.11 | 7.11 | 7.01 | 7.21 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_S **Calibration Date(s):** 09/12/2024 09/12/2024

**Calibration Times:** 21:24 22:59

---

GC Column: RTX-CLP2 ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS027653.D RT 500 = PS027654.D

RT 750 = PS027655.D RT 1000 = PS027656.D RT 1500 = PS027657.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) | 9.75 | 9.76 | 9.76 | 9.76 | 9.76 | 9.75 | 9.65 | 9.85 |
| 2,4-D | 8.86 | 8.86 | 8.86 | 8.86 | 8.86 | 8.86 | 8.76 | 8.96 |
| 2,4-DCAA | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.53 | 7.73 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_S **Calibration Date(s):** 09/12/2024 09/12/2024

**Calibration Times:** 21:24 22:59

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 200 =** PS027653.D **CF 500 =** PS027654.D

**CF 750 =** PS027655.D **CF 1000 =** PS027656.D **CF 1500 =** PS027657.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 16480400000 | 15003800000 | 14421200000 | 14173600000 | 13096000000 | 14635000000 | 8 |
| 2,4-D | 3492740000 | 3113810000 | 2979600000 | 2958000000 | 2782030000 | 3065240000 | 9 |
| 2,4-DCAA | 2882370000 | 2518620000 | 2408720000 | 2392240000 | 2215400000 | 2483470000 | 10 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Instrument ID:** ECD_S **Calibration Date(s):** 09/12/2024 09/12/2024

**Calibration Times:** 21:24 22:59

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm)

**LAB FILE ID:** **CF 200 =** PS027653.D **CF 500 =** PS027654.D

**CF 750 =** PS027655.D **CF 1000 =** PS027656.D **CF 1500 =** PS027657.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 5828170000 | 5909010000 | 6118970000 | 6127280000 | 5996050000 | 5995900000 | 2 |
| 2,4-D | 1161930000 | 1098640000 | 1103250000 | 1118490000 | 1092760000 | 1115020000 | 3 |
| 2,4-DCAA | 1082400000 | 978389000 | 981157000 | 972356000 | 940861000 | 991033000 | 5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/03/2024 **Initial Calibration Date(s):** 09/12/2024 09/12/2024

**Continuing Calib Time:** 21:23 **Initial Calibration Time(s):** 21:24 22:59

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.10 | 7.11 | 7.01 | 7.21 | 0.01 |
| 2,4-D | 8.19 | 8.20 | 8.10 | 8.30 | 0.01 |
| 2,4,5-TP(Silvex) | 9.04 | 9.06 | 8.96 | 9.16 | 0.02 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/03/2024 **Initial Calibration Date(s):** 09/12/2024 09/12/2024

**Continuing Calib Time:** 21:23 **Initial Calibration Time(s):** 21:24 22:59

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.62 | 7.63 | 7.53 | 7.73 | 0.01 |
| 2,4-D | 8.85 | 8.86 | 8.76 | 8.96 | 0.01 |
| 2,4,5-TP(Silvex) | 9.74 | 9.76 | 9.66 | 9.86 | 0.02 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/12/2024 09/12/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/03/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS027828.D **Time Analyzed:** 21:23

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.039 | 8.956 | 9.156 | 740.020 | 712.500 | 3.9 |
| 2,4-D | 8.186 | 8.101 | 8.301 | 712.760 | 705.000 | 1.1 |
| 2,4-DCAA | 7.099 | 7.012 | 7.212 | 748.300 | 750.000 | -0.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/12/2024 09/12/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/03/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS027828.D **Time Analyzed:** 21:23

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.737 | 9.655 | 9.855 | 729.370 | 712.500 | 2.4 |
| 2,4-D | 8.848 | 8.761 | 8.961 | 714.120 | 705.000 | 1.3 |
| 2,4-DCAA | 7.622 | 7.533 | 7.733 | 754.600 | 750.000 | 0.6 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/04/2024 **Initial Calibration Date(s):** 09/12/2024 09/12/2024

**Continuing Calib Time:** 04:09 **Initial Calibration Time(s):** 21:24 22:59

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.10 | 7.11 | 7.01 | 7.21 | 0.01 |
| 2,4-D | 8.19 | 8.20 | 8.10 | 8.30 | 0.01 |
| 2,4,5-TP(Silvex) | 9.04 | 9.06 | 8.96 | 9.16 | 0.02 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Continuing Calib Date:** 10/04/2024 **Initial Calibration Date(s):** 09/12/2024 09/12/2024

**Continuing Calib Time:** 04:09 **Initial Calibration Time(s):** 21:24 22:59

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.62 | 7.63 | 7.53 | 7.73 | 0.01 |
| 2,4-D | 8.85 | 8.86 | 8.76 | 8.96 | 0.01 |
| 2,4,5-TP(Silvex) | 9.74 | 9.76 | 9.66 | 9.86 | 0.02 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/12/2024 09/12/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/04/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS027842.D **Time Analyzed:** 04:09

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.037 | 8.956 | 9.156 | 726.660 | 712.500 | 2.0 |
| 2,4-D | 8.185 | 8.101 | 8.301 | 694.740 | 705.000 | -1.5 |
| 2,4-DCAA | 7.098 | 7.012 | 7.212 | 754.310 | 750.000 | 0.6 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 09/12/2024 09/12/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/04/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS027842.D **Time Analyzed:** 04:09

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.736 | 9.655 | 9.855 | 745.500 | 712.500 | 4.6 |
| 2,4-D | 8.847 | 8.761 | 8.961 | 718.340 | 705.000 | 1.9 |
| 2,4-DCAA | 7.621 | 7.533 | 7.733 | 758.460 | 750.000 | 1.1 |

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# Analytical Sequence

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **Instrument ID:** ECD_S

**GC Column:** RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 09/12/2024 09/12/2024

**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 | 09/12/2024 | 21:00 | PS027652.D | 7.11 | 0.00 |
| HSTDICC200 | HSTDICC200 | 09/12/2024 | 21:24 | PS027653.D | 7.11 | 0.00 |
| HSTDICC500 | HSTDICC500 | 09/12/2024 | 21:48 | PS027654.D | 7.11 | 0.00 |
| HSTDICC750 | HSTDICC750 | 09/12/2024 | 22:12 | PS027655.D | 7.11 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 09/12/2024 | 22:35 | PS027656.D | 7.11 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 09/12/2024 | 22:59 | PS027657.D | 7.11 | 0.00 |
| I.BLK | I.BLK | 10/03/2024 | 20:59 | PS027827.D | 7.10 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 10/03/2024 | 21:23 | PS027828.D | 7.10 | 0.00 |
| Chamberlain Ave | P4258-04 | 10/04/2024 | 01:22 | PS027835.D | 7.10 | 0.00 |
| Chamberlain AveMS | P4258-04MS | 10/04/2024 | 01:46 | PS027836.D | 7.10 | 0.00 |
| Chamberlain AveMSD | P4258-04MSD | 10/04/2024 | 02:10 | PS027837.D | 7.10 | 0.00 |
| PB163890BL | PB163890BL | 10/04/2024 | 02:34 | PS027838.D | 7.10 | 0.00 |
| PB163890BS | PB163890BS | 10/04/2024 | 02:58 | PS027839.D | 7.10 | 0.00 |
| PB163851TB | PB163851TB | 10/04/2024 | 03:22 | PS027840.D | 7.10 | 0.00 |
| I.BLK | I.BLK | 10/04/2024 | 03:45 | PS027841.D | 7.10 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 10/04/2024 | 04:09 | PS027842.D | 7.10 | 0.00 |

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# Analytical Sequence

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **Instrument ID:** ECD_S

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 09/12/2024 09/12/2024

**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 | 09/12/2024 | 21:00 | PS027652.D | 7.63 | 0.00 |
| HSTDICC200 | HSTDICC200 | 09/12/2024 | 21:24 | PS027653.D | 7.63 | 0.00 |
| HSTDICC500 | HSTDICC500 | 09/12/2024 | 21:48 | PS027654.D | 7.63 | 0.00 |
| HSTDICC750 | HSTDICC750 | 09/12/2024 | 22:12 | PS027655.D | 7.63 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 09/12/2024 | 22:35 | PS027656.D | 7.63 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 09/12/2024 | 22:59 | PS027657.D | 7.63 | 0.00 |
| I.BLK | I.BLK | 10/03/2024 | 20:59 | PS027827.D | 7.62 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 10/03/2024 | 21:23 | PS027828.D | 7.62 | 0.00 |
| Chamberlain Ave | P4258-04 | 10/04/2024 | 01:22 | PS027835.D | 7.62 | 0.00 |
| Chamberlain AveMS | P4258-04MS | 10/04/2024 | 01:46 | PS027836.D | 7.62 | 0.00 |
| Chamberlain AveMSD | P4258-04MSD | 10/04/2024 | 02:10 | PS027837.D | 7.62 | 0.00 |
| PB163890BL | PB163890BL | 10/04/2024 | 02:34 | PS027838.D | 7.62 | 0.00 |
| PB163890BS | PB163890BS | 10/04/2024 | 02:58 | PS027839.D | 7.62 | 0.00 |
| PB163851TB | PB163851TB | 10/04/2024 | 03:22 | PS027840.D | 7.62 | 0.00 |
| I.BLK | I.BLK | 10/04/2024 | 03:45 | PS027841.D | 7.62 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 10/04/2024 | 04:09 | PS027842.D | 7.62 | 0.00 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**Chamberlain AveMS**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** P4258-04MS **Date(s) Analyzed:** 10/04/2024 10/04/2024

**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 | 51.9 | 13.1 |
| | 2 | 8.85 | 8.80 | 8.90 | 59.2 | |
| 2,4,5-TP(Silvex) | 1 | 9.04 | 8.99 | 9.09 | 49.0 | 27.5 |
| | 2 | 9.74 | 9.69 | 9.79 | 64.6 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**Chamberlain AveMSD**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** P4258-04MSD **Date(s) Analyzed:** 10/04/2024 10/04/2024

**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 | 8.19 | 8.14 | 8.24 | 53.3 | 10.8 |
| | 2 | 8.85 | 8.80 | 8.90 | 59.4 | |
| 2,4,5-TP(Silvex) | 1 | 9.04 | 8.99 | 9.09 | 50.4 | 38.5 |
| | 2 | 9.74 | 9.69 | 9.79 | 74.4 | |

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



## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB163890BS**

**Contract:** ROMA02

**Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258

**Lab Sample ID:** PB163890BS **Date(s) Analyzed:** 10/04/2024 10/04/2024

**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 | 8.19 | 8.14 | 8.24 | 5.30 | 10.7 |
| | 2 | 8.85 | 8.80 | 8.90 | 5.90 | |
| 2,4,5-TP(Silvex) | 1 | 9.04 | 8.99 | 9.09 | 5.20 | 3.9 |
| | 2 | 9.74 | 9.69 | 9.79 | 5.00 | |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100324\
Data File : PS027835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 01:22
Operator : AR\AJ
Sample : P4258-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
Chamberlain Ave

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 05:41:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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 | 7.098 | 7.621 | 581.4E6 | 209.2E6 | 233.715 | 211.050m |
| | Target Compounds | | | | | | |
| 10) T | Pentachlo... | 8.471 | 9.360 | 4545.6E6 | 1683.1E6 | 124.978 | 101.805 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100324\
Data File : PS027835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 01:22
Operator : AR\AJ
Sample : P4258-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

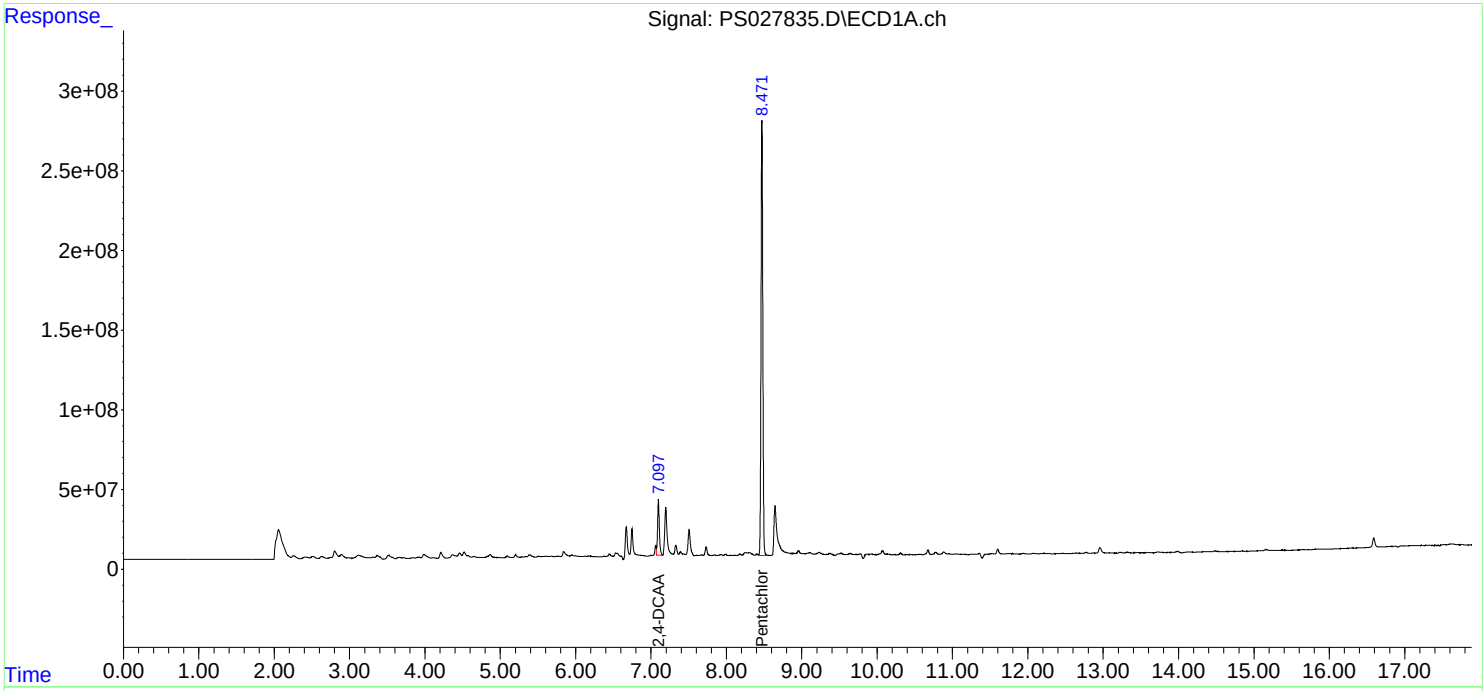
**Instrument :**
ECD_S
**ClientSampleId :**
Chamberlain Ave

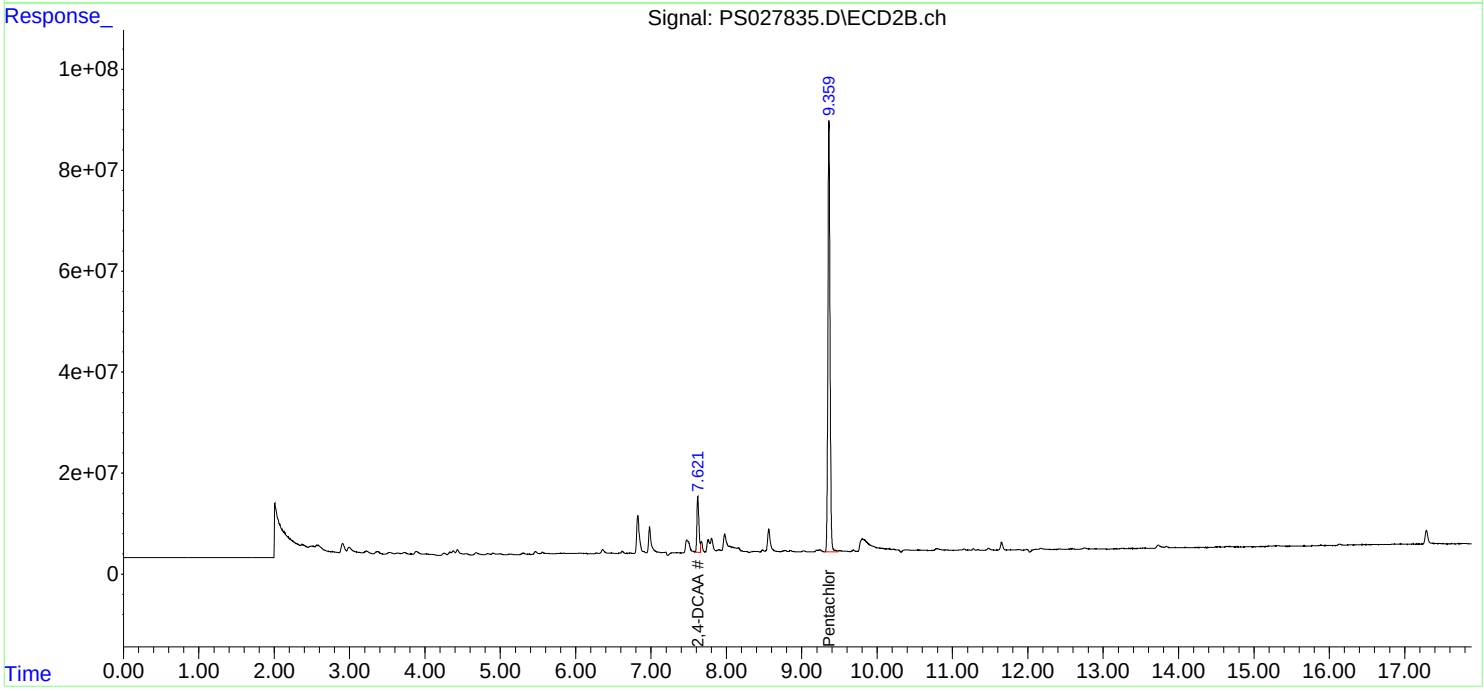
**Manual Integrations APPROVED**

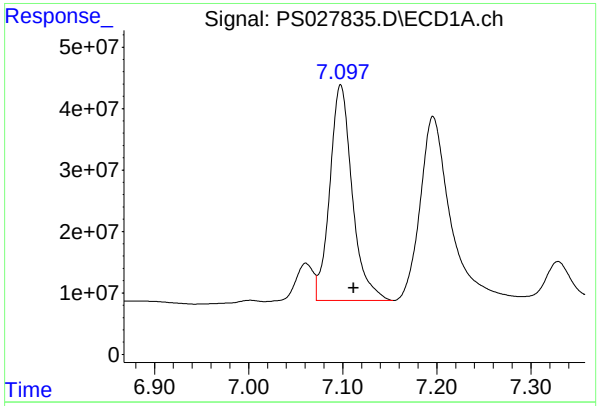
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 05:41:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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





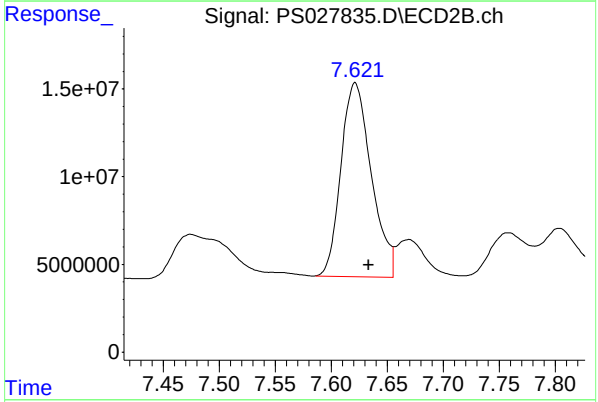

#4 2,4-DCAA

R.T.: 7.098 min
Delta R.T.: -0.014 min
Response: 581392090
Conc: 233.72 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
Chamberlain Ave

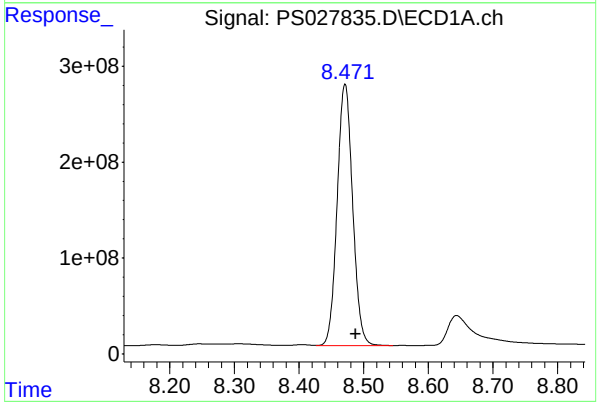
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024



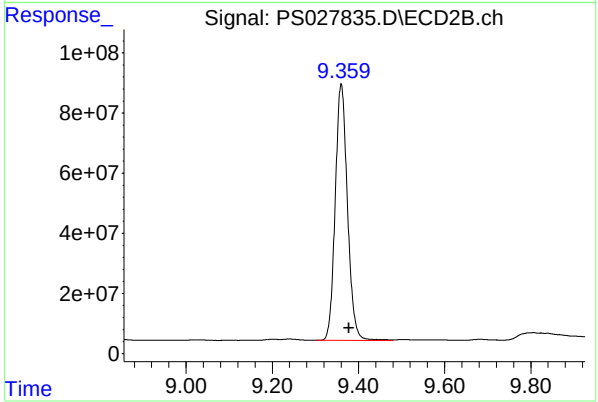

#4 2,4-DCAA

R.T.: 7.621 min
Delta R.T.: -0.012 min
Response: 209157794
Conc: 211.05 ng/ml m




#10 Pentachlorophenol

R.T.: 8.471 min
Delta R.T.: -0.016 min
Response: 4545583388
Conc: 124.98 ng/ml




#10 Pentachlorophenol

R.T.: 9.360 min
Delta R.T.: -0.018 min
Response: 1683082387
Conc: 101.81 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100324\
Data File : PS027840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 03:22
Operator : AR\AJ
Sample : PB163851TB
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
PB163851TB

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 05:42:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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 | 7.098 | 7.621 | 987.7E6 | 339.5E6 | 397.063m | 342.607 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

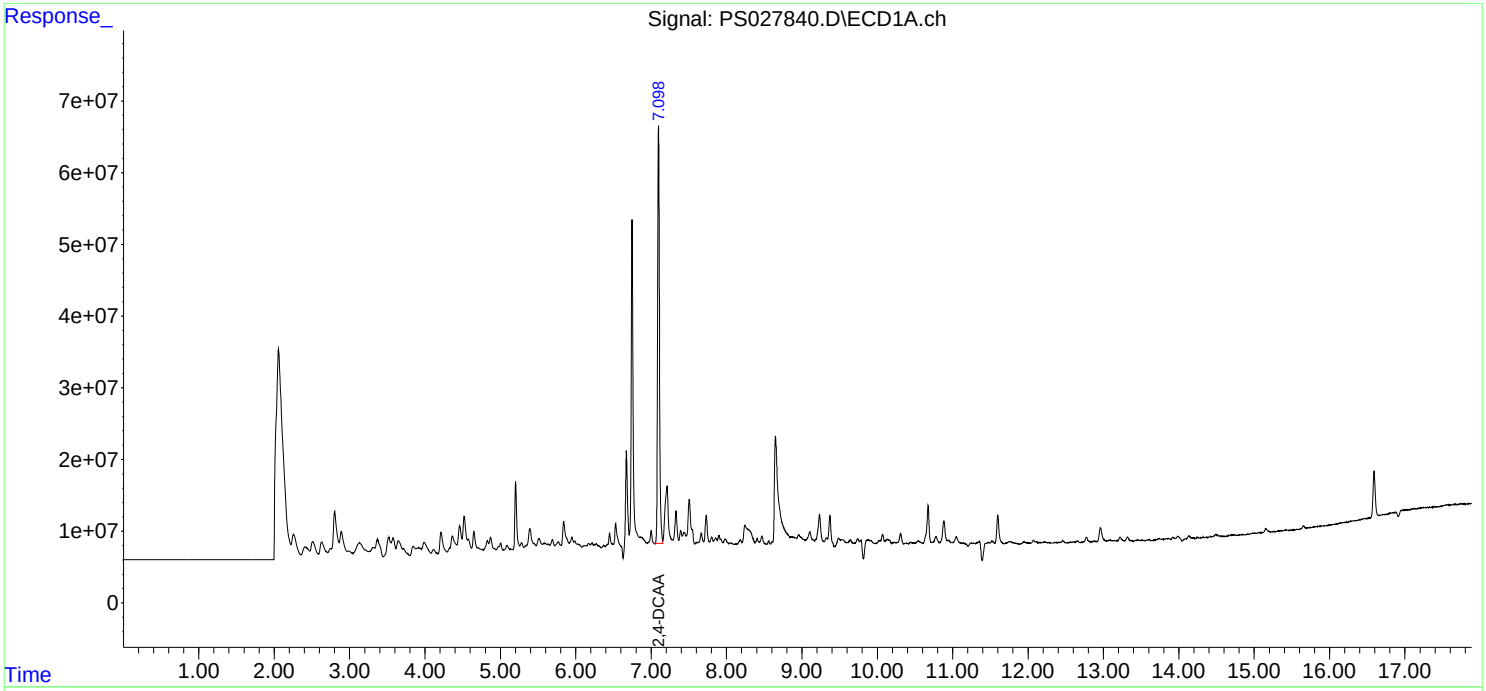
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100324\
Data File : PS027840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 03:22
Operator : AR\AJ
Sample : PB163851TB
Misc :
ALS Vial : 25 Sample Multiplier: 1

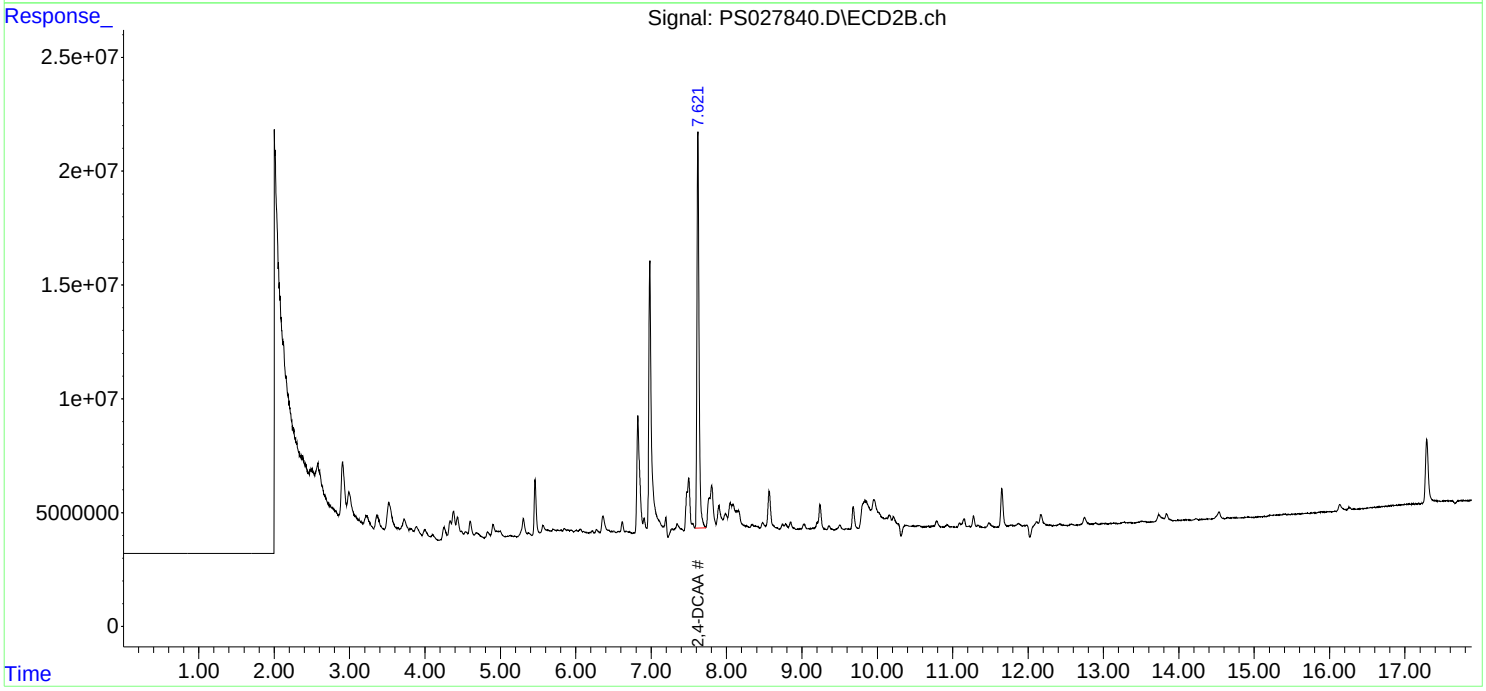
**Instrument :**
ECD_S
**ClientSampleId :**
PB163851TB

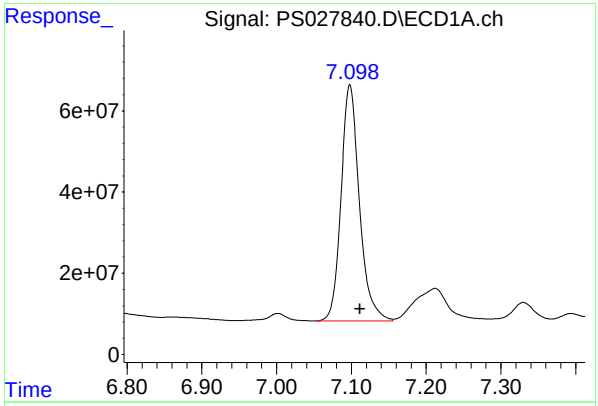
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 05:42:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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





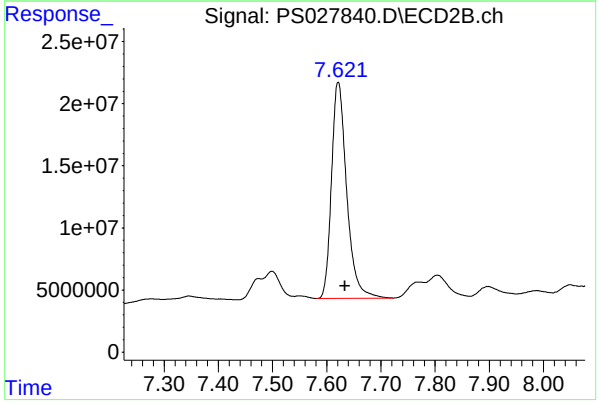

#4 2,4-DCAA

R.T.: 7.098 min
Delta R.T.: -0.014 min
Response: 987736466
Conc: 397.06 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB163851TB

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024




#4 2,4-DCAA

R.T.: 7.621 min
Delta R.T.: -0.012 min
Response: 339535072
Conc: 342.61 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100324\
Data File : PS027838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 02:34
Operator : AR\AJ
Sample : PB163890BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
PB163890BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 05:41:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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 | 7.098 | 7.622 | 1292.5E6 | 521.3E6 | 519.566 | 526.041 |
| | Target Compounds | | | | | | |

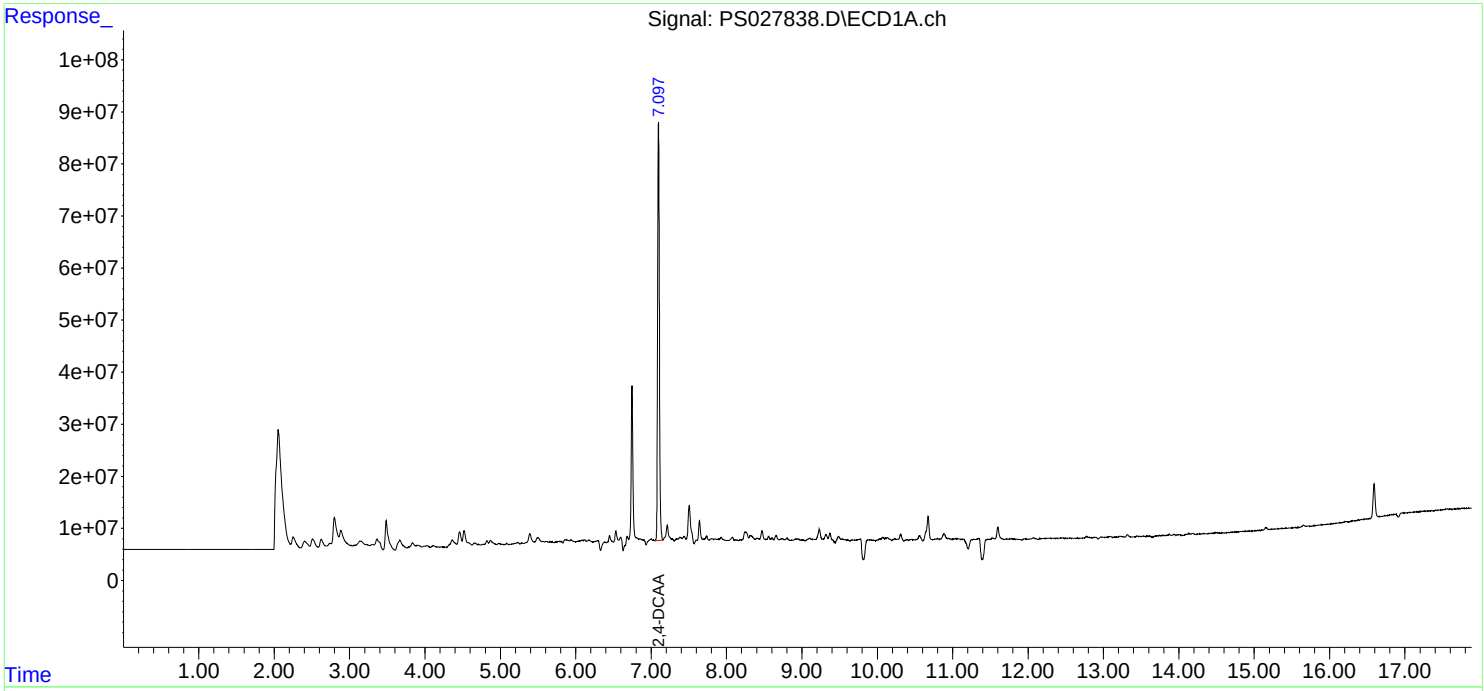
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

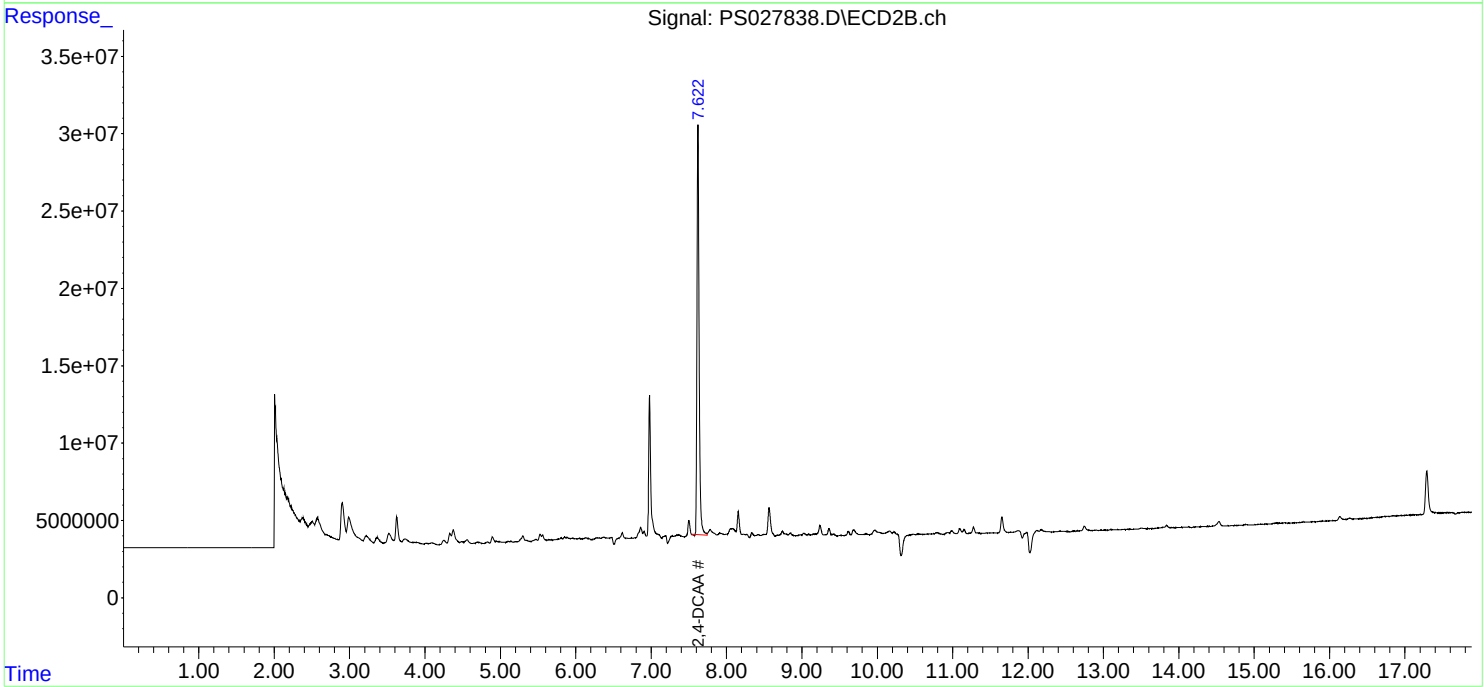
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100324\
Data File : PS027838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 02:34
Operator : AR\AJ
Sample : PB163890BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

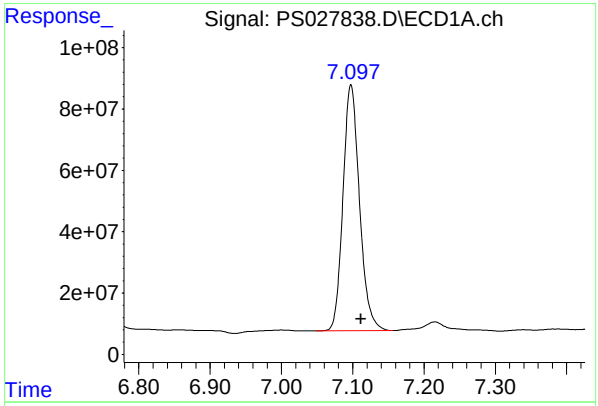
**Instrument :**
ECD_S
**ClientSampleId :**
PB163890BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 05:41:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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



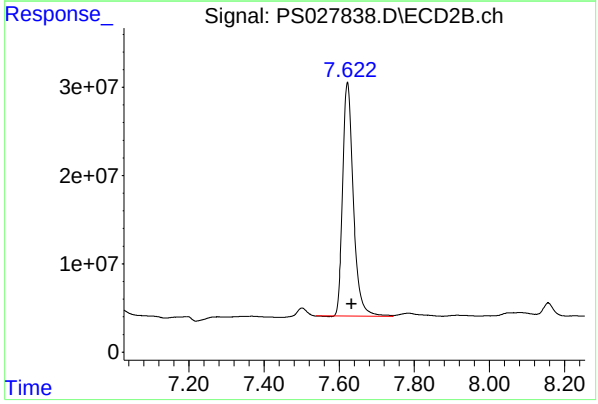






#4 2,4-DCAA

R.T.: 7.098 min
Delta R.T.: -0.014 min
Response: 1292475268
Conc: 519.57 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB163890BL




#4 2,4-DCAA

R.T.: 7.622 min
Delta R.T.: -0.011 min
Response: 521323811
Conc: 526.04 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100324\
Data File : PS027839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 02:58
Operator : AR\AJ
Sample : PB163890BS
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
PB163890BS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 07:13:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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 | 7.098 | 7.622 | 1355.7E6 | 548.6E6 | 544.990 | 553.567m |
| | | **Target Compounds** | | | | | | |
| 1) | T | Dalapon | 2.549 | 2.614 | 1354.6E6 | 613.0E6 | 326.964m | 375.652m |
| 2) | T | 3,5-DICHL... | 6.289 | 6.593 | 1807.5E6 | 775.6E6 | 494.807 | 481.295 |
| 3) | T | 4-Nitroph... | 6.893 | 7.157 | 719.1E6 | 292.6E6 | 424.743 | 408.203 |
| 5) | T | DICAMBA | 7.276 | 7.816 | 4897.3E6 | 2020.4E6 | 484.638m | 458.517 |
| 6) | T | MCPP | 7.454 | 7.917 | 321.5E6 | 156.9E6 | 46.643m | 47.786 |
| 7) | T | MCPA | 7.599 | 8.156 | 481.0E6 | 273.4E6 | 47.487 | 51.640 |
| 8) | T | DICHLORPROP | 7.962 | 8.522 | 1347.6E6 | 616.3E6 | 508.344 | 551.674 |
| 9) | T | 2,4-D | 8.185 | 8.847 | 1623.3E6 | 661.7E6 | 529.583 | 593.481 |
| 10) | T | Pentachlo... | 8.471 | 9.360 | 19174.1E6 | 8323.6E6 | 527.179 | 503.474 |
| 11) | T | 2,4,5-TP ... | 9.037 | 9.736 | 7625.1E6 | 3010.7E6 | 521.017 | 502.125m |
| 12) | T | 2,4,5-T | 9.323 | 10.151 | 7076.6E6 | 2516.5E6 | 472.784 | 481.464 |
| 13) | T | 2,4-DB | 9.886 | 10.712 | 1056.4E6 | 284.5E6 | 454.888m | 462.385m |
| 14) | T | DINOSEB | 11.060 | 11.086 | 4323.2E6 | 1798.0E6 | 442.004 | 427.535m |
| 15) | T | Picloram | 10.878 | 12.165 | 6833.8E6 | 1812.9E6 | 365.294 | 390.101 |
| 16) | T | DCPA | 11.359 | 12.118 | 8263.1E6 | 3572.3E6 | 497.856 | 554.265 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

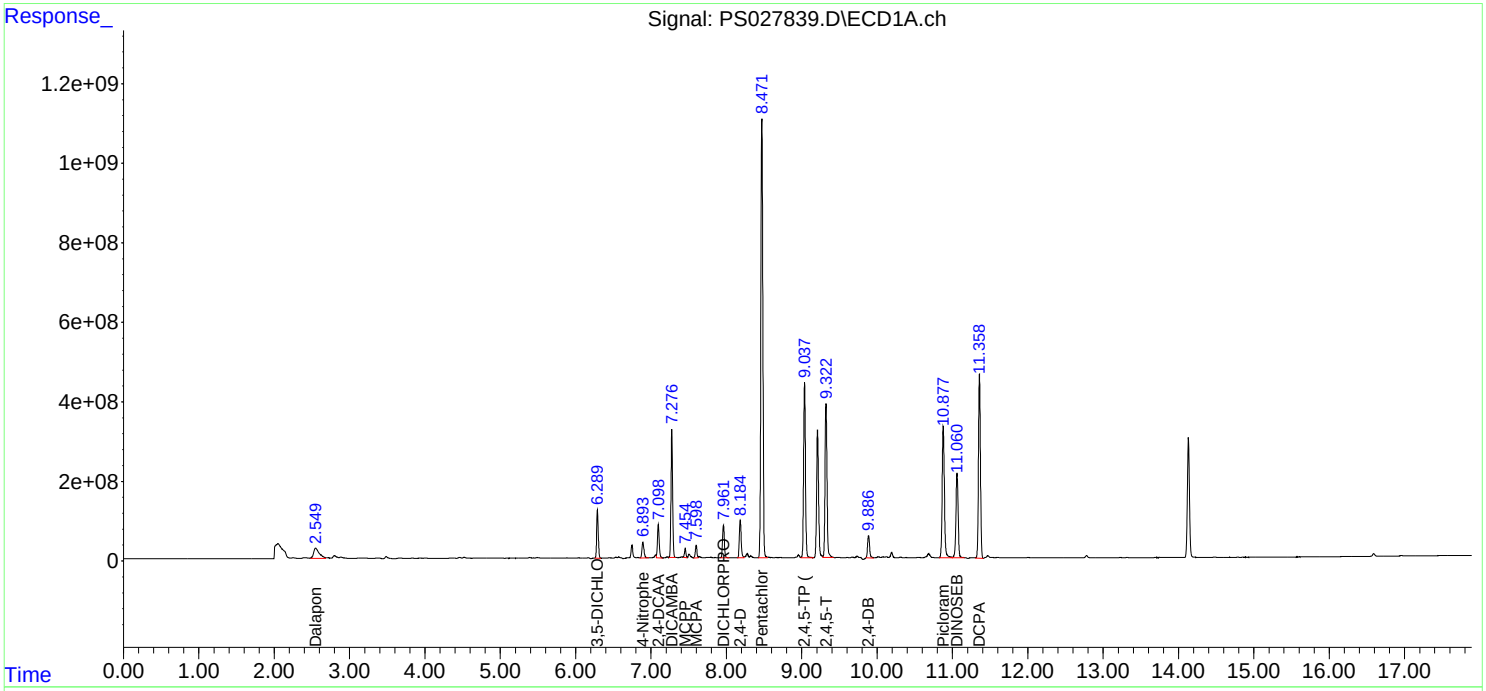
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100324\
Data File : PS027839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 02:58
Operator : AR\AJ
Sample : PB163890BS
Misc :
ALS Vial : 24 Sample Multiplier: 1

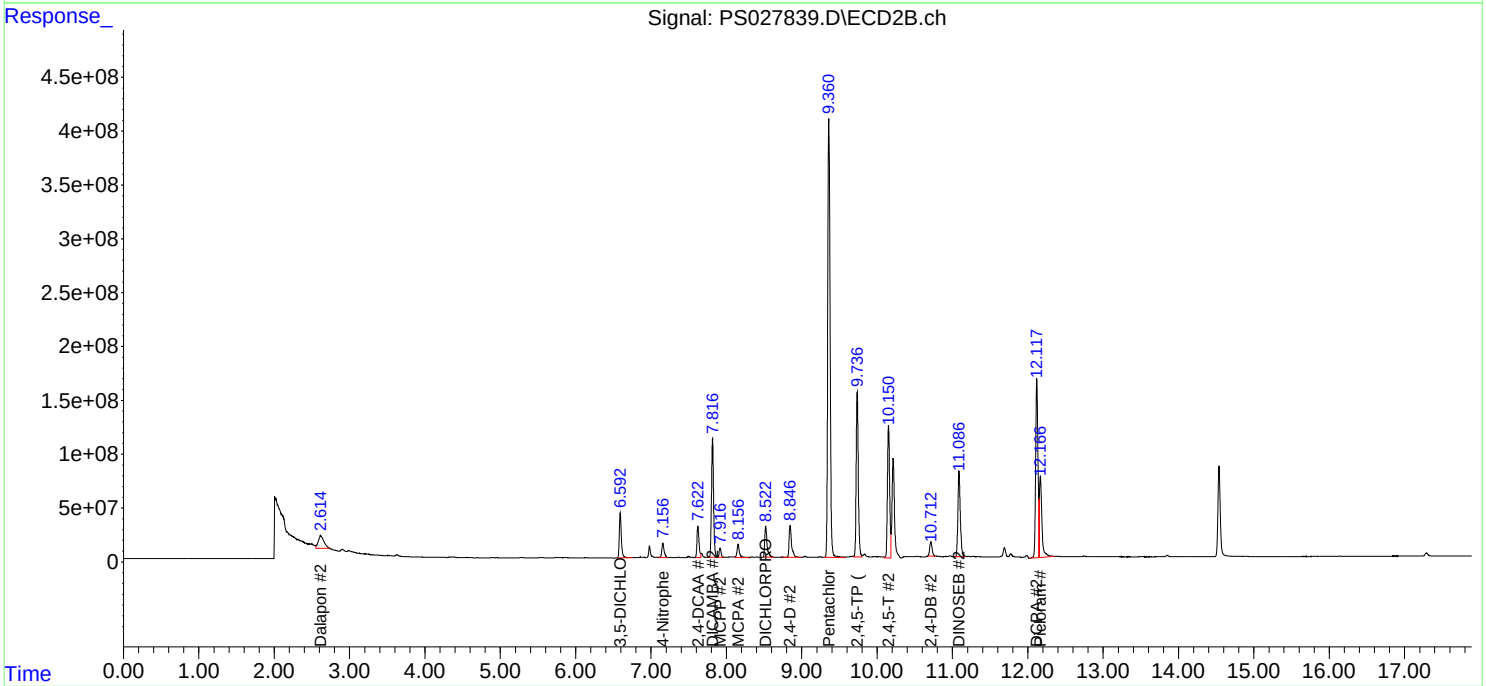
**Instrument :**
ECD_S
**ClientSampleId :**
PB163890BS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 07:13:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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\PS100324\
Data File : PS027836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 01:46
Operator : AR\AJ
Sample : P4258-04MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
Chamberlain AveMS

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 07:12:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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 | 7.098 | 7.622 | 611.4E6 | 202.8E6 | 245.772 | 204.664m |
| | | Target Compounds | | | | | | |
| 1) | T | Dalapon | 2.551 | 2.622 | 1459.8E6 | 538.7E6 | 352.351 | 330.138 |
| 2) | T | 3,5-DICHL... | 6.289 | 6.592 | 1352.6E6 | 569.8E6 | 370.290 | 353.629 |
| 5) | T | DICAMBA | 7.276 | 7.816 | 4339.9E6 | 1883.5E6 | 429.473m | 427.458 |
| 6) | T | MCPP | 7.454 | 7.917 | 350.9E6 | 145.4E6 | 50.905m | 44.305 |
| 7) | T | MCPA | 7.598 | 8.156 | 441.4E6 | 229.7E6 | 43.570 | 43.392m |
| 8) | T | DICHLORPROP | 7.962 | 8.521 | 1240.2E6 | 569.6E6 | 467.838 | 509.819 |
| 9) | T | 2,4-D | 8.184 | 8.847 | 1591.8E6 | 659.9E6 | 519.316 | 591.808 |
| 10) | T | Pentachlo... | 8.471 | 9.360 | 13051.0E6 | 5382.2E6 | 358.828 | 325.557 |
| 11) | T | 2,4,5-TP ... | 9.037 | 9.737 | 7177.6E6 | 3873.3E6 | 490.437 | 645.993 # |
| 12) | T | 2,4,5-T | 9.322 | 10.151 | 7029.5E6 | 2600.4E6 | 469.640 | 497.509 |
| 13) | T | 2,4-DB | 9.885 | 10.712 | 1083.8E6 | 307.5E6 | 466.694 | 499.738 |
| 14) | T | DINOSEB | 11.061 | 11.087 | 1594.0E6 | 641.0E6 | 162.972 | 152.411 |
| 15) | T | Picloram | 10.877 | 12.165 | 7541.7E6 | 2216.5E6 | 403.135 | 476.949 |
| 16) | T | DCPA | 11.359 | 12.119 | 8303.1E6 | 3262.3E6 | 500.268 | 506.172 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

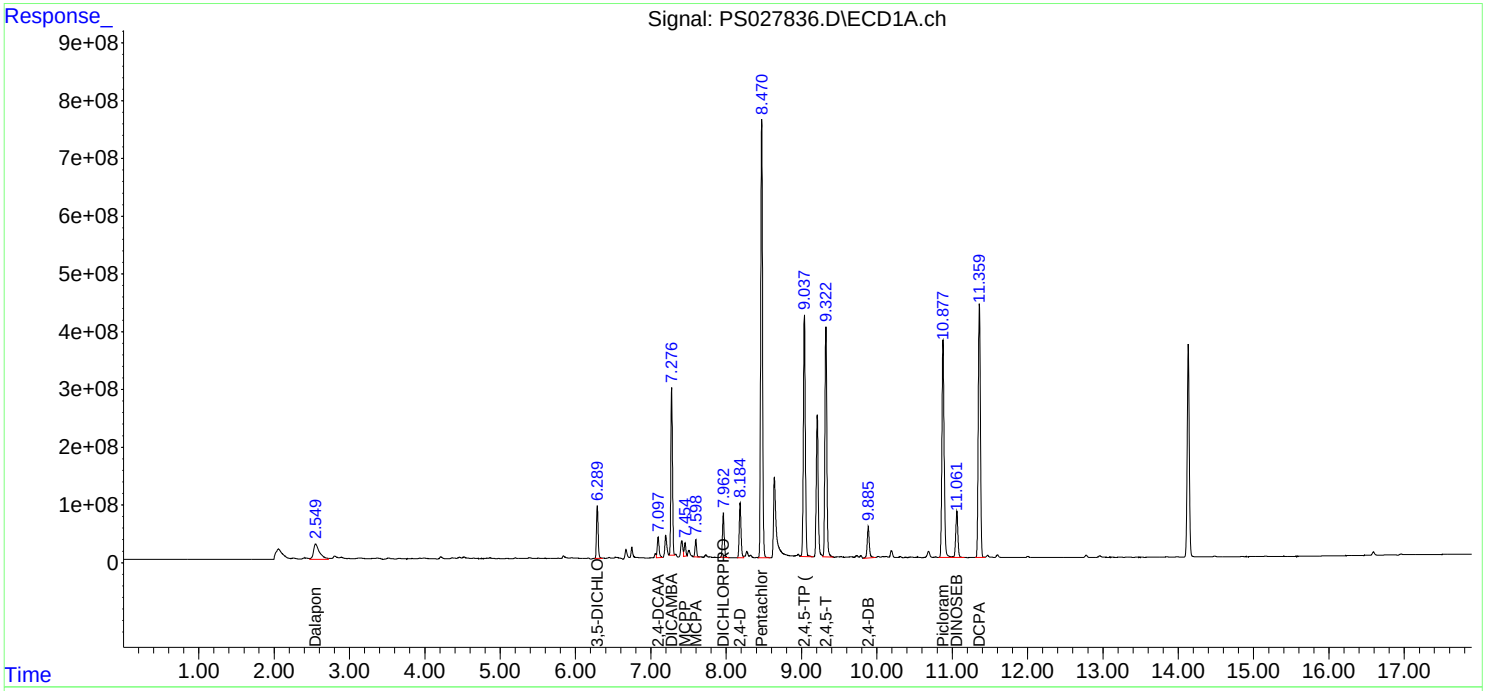
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100324\
Data File : PS027836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 01:46
Operator : AR\AJ
Sample : P4258-04MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

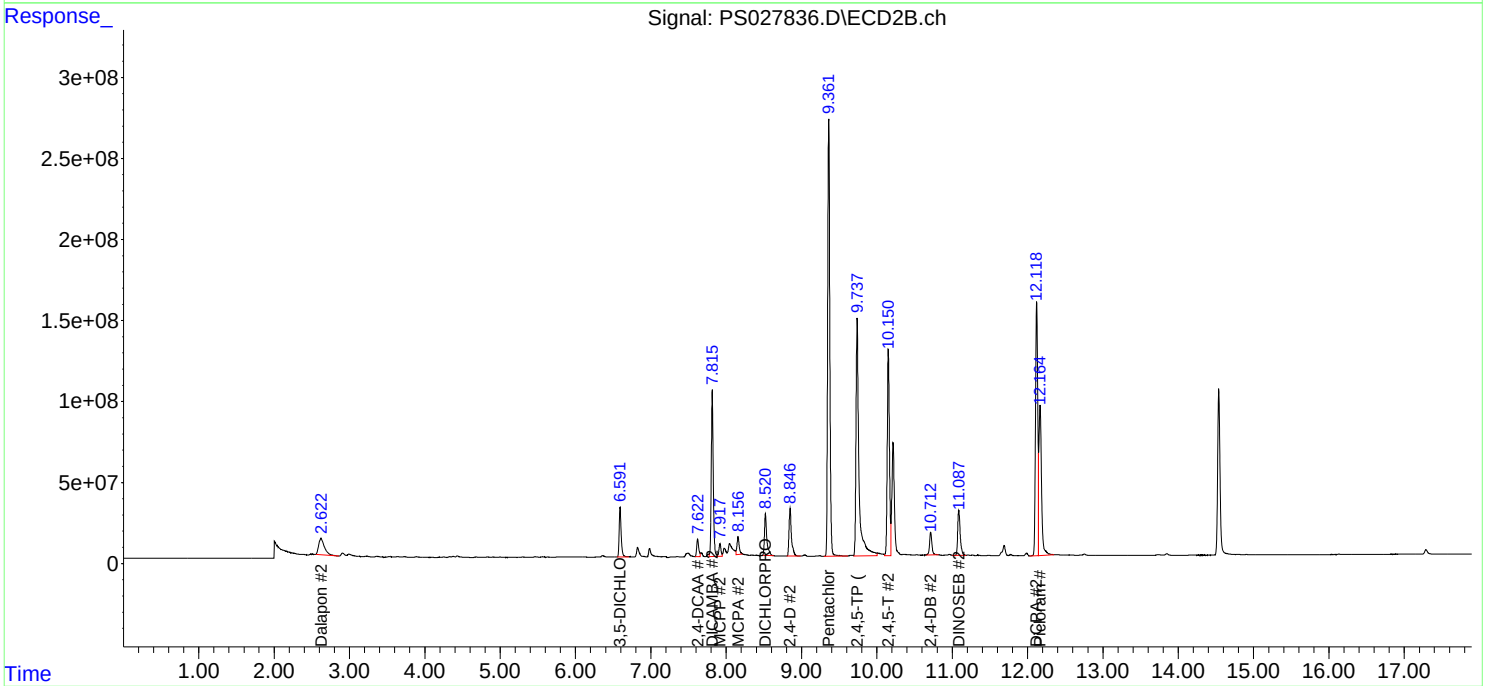
**Instrument :**
ECD_S
**ClientSampleId :**
Chamberlain AveMS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 07:12:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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\PS100324\
Data File : PS027837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 02:10
Operator : AR\AJ
Sample : P4258-04MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
Chamberlain AveMSD

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 07:12:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 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 | 7.098 | 7.622 | 694.5E6 | 199.6E6 | 279.193 | 201.425m# |
| | | Target Compounds | | | | | | |
| 1) | T | Dalapon | 2.548 | 2.619 | 1477.2E6 | 541.4E6 | 356.538 | 331.772 |
| 2) | T | 3,5-DICHL... | 6.289 | 6.593 | 1377.3E6 | 577.3E6 | 377.044 | 358.226 |
| 5) | T | DICAMBA | 7.276 | 7.815 | 4409.9E6 | 1814.5E6 | 436.405m | 411.796m |
| 6) | T | MCPP | 7.454 | 7.917 | 389.5E6 | 173.5E6 | 56.507m | 52.852 |
| 7) | T | MCPA | 7.599 | 8.155 | 457.1E6 | 263.7E6 | 45.125 | 49.811m |
| 8) | T | DICHLORPROP | 7.962 | 8.522 | 1270.9E6 | 555.5E6 | 479.424 | 497.216 |
| 9) | T | 2,4-D | 8.185 | 8.847 | 1635.2E6 | 662.8E6 | 533.478 | 594.448 |
| 10) | T | Pentachlo... | 8.471 | 9.360 | 13312.7E6 | 5420.0E6 | 366.023 | 327.844 |
| 11) | T | 2,4,5-TP ... | 9.037 | 9.738 | 7368.7E6 | 4460.1E6 | 503.499 | 743.852 # |
| 12) | T | 2,4,5-T | 9.322 | 10.151 | 7195.0E6 | 2653.3E6 | 480.698 | 507.630 |
| 13) | T | 2,4-DB | 9.886 | 10.712 | 1104.6E6 | 318.2E6 | 475.656 | 517.105 |
| 14) | T | DINOSEB | 11.061 | 11.087 | 1654.8E6 | 657.2E6 | 169.184 | 156.265 |
| 15) | T | Picloram | 10.878 | 12.165 | 7703.7E6 | 2234.3E6 | 411.792 | 480.773 |
| 16) | T | DCPA | 11.360 | 12.119 | 8521.6E6 | 3439.0E6 | 513.428 | 533.577 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

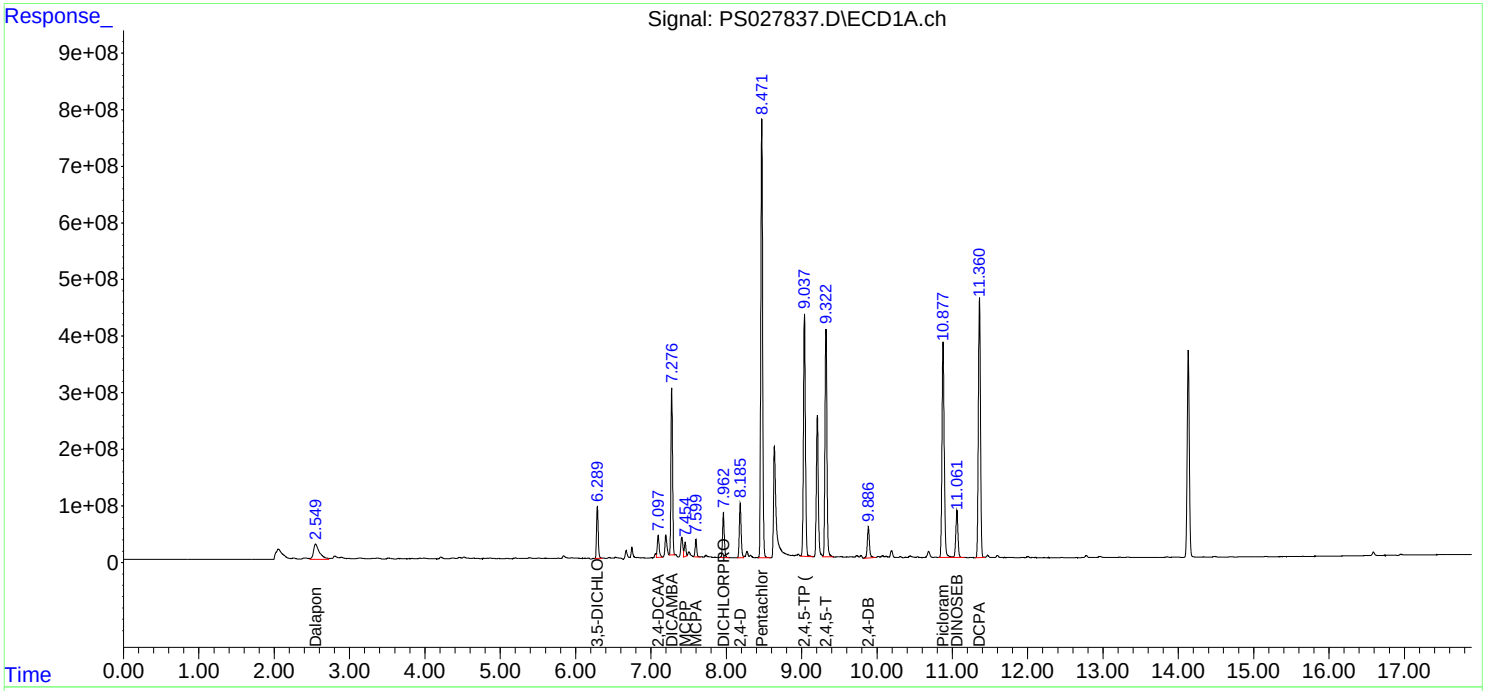
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100324\
Data File : PS027837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Oct 2024 02:10
Operator : AR\AJ
Sample : P4258-04MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

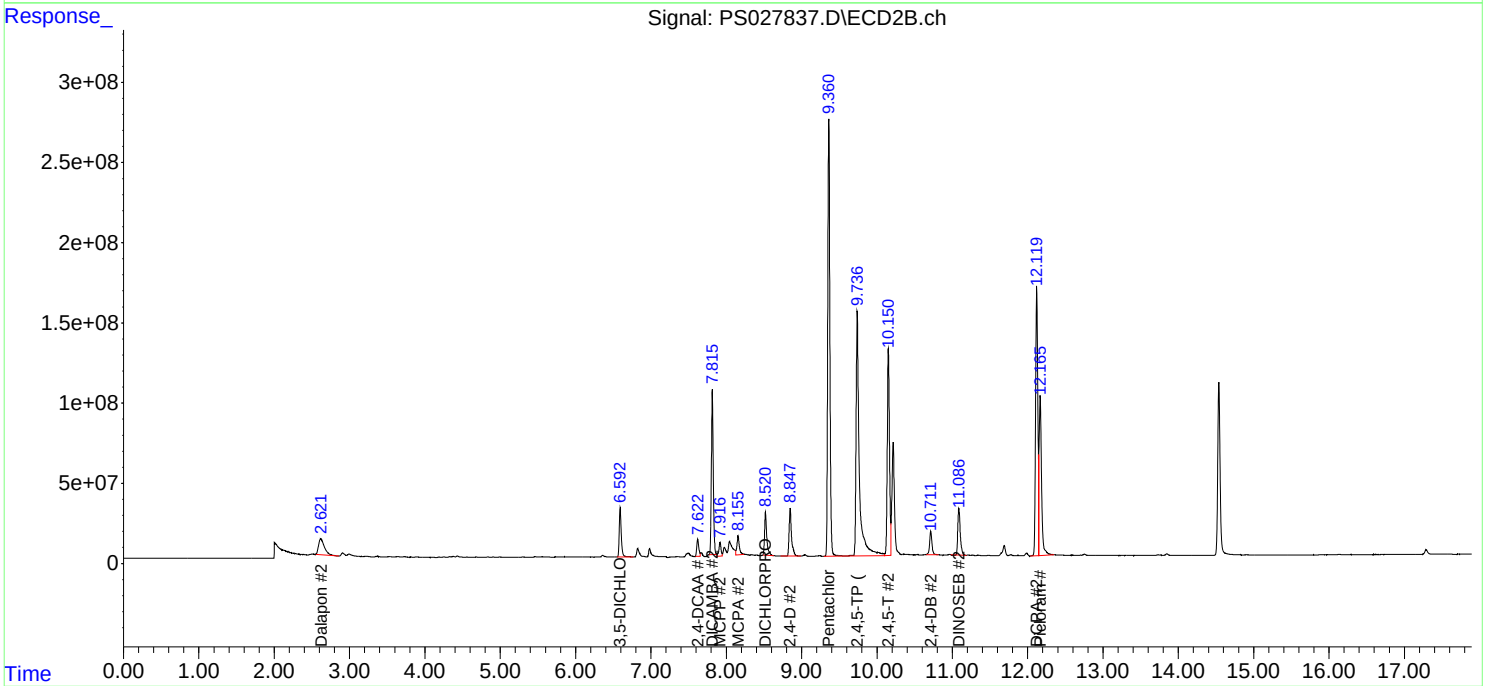
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 07:12:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS091224.M
Quant Title : 8080.M
QLast Update : Sat Sep 14 02:36:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

**Instrument :**
ECD_S
**ClientSampleId :**
Chamberlain AveMSD

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 10/04/2024
Supervised By :Ankita Jodhani 10/04/2024



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



# Manual Integration Report

| Sequence: | ps091224 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| HSTDICC200 | PS027653.D | 2,4-DCAA | Abdul | 9/15/2024 7:48:08 PM | Ankita | 9/16/2024 10:13:46 | Peak Integrated by Software |
| HSTDICV750 | PS027658.D | 2,4-DCAA #2 | Abdul | 9/15/2024 7:48:12 PM | Ankita | 9/16/2024 10:13:48 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PS100324 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| I.BLK | PS027815.D | 2,4-DCAA #2 | Abdul | 10/4/2024 9:07:49 AM | Ankita | 10/4/2024 9:33:40 | Peak Integrated by Software |
| HSTDCCC750 | PS027828.D | 2,4-DCAA #2 | Abdul | 10/4/2024 9:08:36 AM | Ankita | 10/4/2024 9:34:25 | Peak Integrated by Software |
| HSTDCCC750 | PS027828.D | DCPA #2 | Abdul | 10/4/2024 9:08:36 AM | Ankita | 10/4/2024 9:34:25 | Peak Integrated by Software |
| HSTDCCC750 | PS027828.D | DICAMBA | Abdul | 10/4/2024 9:08:36 AM | Ankita | 10/4/2024 9:34:25 | Peak Integrated by Software |
| HSTDCCC750 | PS027828.D | MCPP | Abdul | 10/4/2024 9:08:36 AM | Ankita | 10/4/2024 9:34:25 | Peak Integrated by Software |
| P4258-04 | PS027835.D | 2,4-DCAA #2 | Abdul | 10/4/2024 9:09:09 AM | Ankita | 10/4/2024 9:34:48 | Peak Integrated by Software |
| P4258-04MS | PS027836.D | 2,4-DCAA #2 | Abdul | 10/4/2024 9:09:13 AM | Ankita | 10/4/2024 9:34:49 | Peak Integrated by Software |
| P4258-04MS | PS027836.D | DICAMBA | Abdul | 10/4/2024 9:09:13 AM | Ankita | 10/4/2024 9:34:49 | Peak Integrated by Software |
| P4258-04MS | PS027836.D | MCPA #2 | Abdul | 10/4/2024 9:09:13 AM | Ankita | 10/4/2024 9:34:49 | Peak Integrated by Software |
| P4258-04MS | PS027836.D | MCPP | Abdul | 10/4/2024 9:09:13 AM | Ankita | 10/4/2024 9:34:49 | Peak Integrated by Software |
| P4258-04MSD | PS027837.D | 2,4-DCAA #2 | Abdul | 10/4/2024 9:09:18 AM | Ankita | 10/4/2024 9:34:51 | Peak Integrated by Software |
| P4258-04MSD | PS027837.D | DICAMBA | Abdul | 10/4/2024 9:09:18 AM | Ankita | 10/4/2024 9:34:51 | Peak Integrated by Software |
| P4258-04MSD | PS027837.D | DICAMBA #2 | Abdul | 10/4/2024 9:09:18 AM | Ankita | 10/4/2024 9:34:51 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PS100324 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4258-04MSD | PS027837.D | MCPA #2 | Abdul | 10/4/2024 9:09:18 AM | Ankita | 10/4/2024 9:34:51 | Peak Integrated by Software |
| P4258-04MSD | PS027837.D | MCPP | Abdul | 10/4/2024 9:09:18 AM | Ankita | 10/4/2024 9:34:51 | Peak Integrated by Software |
| PB163890BS | PS027839.D | 2,4,5-TP (SILVEX) #2 | Abdul | 10/4/2024 9:09:29 AM | Ankita | 10/4/2024 9:34:53 | Peak Integrated by Software |
| PB163890BS | PS027839.D | 2,4-DB | Abdul | 10/4/2024 9:09:29 AM | Ankita | 10/4/2024 9:34:53 | Peak Integrated by Software |
| PB163890BS | PS027839.D | 2,4-DB #2 | Abdul | 10/4/2024 9:09:29 AM | Ankita | 10/4/2024 9:34:53 | Peak Integrated by Software |
| PB163890BS | PS027839.D | 2,4-DCAA #2 | Abdul | 10/4/2024 9:09:29 AM | Ankita | 10/4/2024 9:34:53 | Peak Integrated by Software |
| PB163890BS | PS027839.D | Dalapon | Abdul | 10/4/2024 9:09:29 AM | Ankita | 10/4/2024 9:34:53 | Peak Integrated by Software |
| PB163890BS | PS027839.D | Dalapon #2 | Abdul | 10/4/2024 9:09:29 AM | Ankita | 10/4/2024 9:34:53 | Peak Integrated by Software |
| PB163890BS | PS027839.D | DICAMBA | Abdul | 10/4/2024 9:09:29 AM | Ankita | 10/4/2024 9:34:53 | Peak Integrated by Software |
| PB163890BS | PS027839.D | DINOSEB #2 | Abdul | 10/4/2024 9:09:29 AM | Ankita | 10/4/2024 9:34:53 | Peak Integrated by Software |
| PB163890BS | PS027839.D | MCPP | Abdul | 10/4/2024 9:09:29 AM | Ankita | 10/4/2024 9:34:53 | Peak Integrated by Software |
| PB163851TB | PS027840.D | 2,4-DCAA | Abdul | 10/4/2024 9:09:33 AM | Ankita | 10/4/2024 9:34:55 | Peak Integrated by Software |
| I.BLK | PS027841.D | 2,4-DCAA #2 | Abdul | 10/4/2024 9:09:37 AM | Ankita | 10/4/2024 9:34:57 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PS100324 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| HSTDCCC750 | PS027842.D | 2,4-DCAA #2 | Abdul | 10/4/2024 9:09:41 AM | Ankita | 10/4/2024 9:34:59 | Peak Integrated by Software |
| HSTDCCC750 | PS027842.D | DCPA #2 | Abdul | 10/4/2024 9:09:41 AM | Ankita | 10/4/2024 9:34:59 | Peak Integrated by Software |
| HSTDCCC750 | PS027842.D | DICAMBA | Abdul | 10/4/2024 9:09:41 AM | Ankita | 10/4/2024 9:34:59 | Peak Integrated by Software |
| HSTDCCC750 | PS027842.D | MCPP | Abdul | 10/4/2024 9:09:41 AM | Ankita | 10/4/2024 9:34:59 | Peak Integrated by Software |
| HSTDCCC750 | PS027842.D | Picloram #2 | Abdul | 10/4/2024 9:09:41 AM | Ankita | 10/4/2024 9:34:59 | Peak Integrated by Software |

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Fax : 908 789 8922



**Instrument ID: ECD_S**

## Daily Analysis Runlog For Sequence/QCBatch ID # PS091224

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/15/2024 7:48:35 PM | | |
| Supervise By | Ankita | Supervise On | 9/16/2024 10:13:53 AM | | |
| SubDirectory | PS091224 | HP Acquire Method | | HP Processing Method | ps091224 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 | PS027651.D | 12 Sep 2024 20:36 | AR\AJ | Ok |
| 2 | I.BLK | PS027652.D | 12 Sep 2024 21:00 | AR\AJ | Ok |
| 3 | HSTDICC200 | PS027653.D | 12 Sep 2024 21:24 | AR\AJ | Ok,M |
| 4 | HSTDICC500 | PS027654.D | 12 Sep 2024 21:48 | AR\AJ | Ok |
| 5 | HSTDICC750 | PS027655.D | 12 Sep 2024 22:12 | AR\AJ | Ok |
| 6 | HSTDICC1000 | PS027656.D | 12 Sep 2024 22:35 | AR\AJ | Ok |
| 7 | HSTDICC1500 | PS027657.D | 12 Sep 2024 22:59 | AR\AJ | Ok |
| 8 | HSTDICV750 | PS027658.D | 12 Sep 2024 23:23 | AR\AJ | Ok,M |
| 9 | I.BLK | PS027659.D | 12 Sep 2024 23:47 | AR\AJ | Ok |
| 10 | HSTDCCC750 | PS027660.D | 13 Sep 2024 00:11 | AR\AJ | Ok |
| 11 | P3845-17 | PS027661.D | 13 Sep 2024 00:35 | AR\AJ | Ok |
| 12 | I.BLK | PS027662.D | 13 Sep 2024 00:59 | AR\AJ | Ok |
| 13 | HSTDCCC750 | PS027663.D | 13 Sep 2024 01:22 | AR\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: ECD_S**

## Daily Analysis Runlog For Sequence/QCBatch ID # PS100324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/4/2024 9:10:14 AM | | |
| Supervise By | Ankita | Supervise On | 10/4/2024 9:35:20 AM | | |
| SubDirectory | PS100324 | HP Acquire Method | | HP Processing Method | ps091224 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 | PS027814.D | 03 Oct 2024 11:13 | AR\AJ | Ok |
| 2 | I.BLK | PS027815.D | 03 Oct 2024 11:37 | AR\AJ | Ok,M |
| 3 | HSTDCCC750 | PS027816.D | 03 Oct 2024 12:01 | AR\AJ | Ok |
| 4 | PB163866BL | PS027817.D | 03 Oct 2024 17:01 | AR\AJ | Ok |
| 5 | PB163866BS | PS027818.D | 03 Oct 2024 17:25 | AR\AJ | Ok,M |
| 6 | P4222-01 | PS027819.D | 03 Oct 2024 17:48 | AR\AJ | Ok,M |
| 7 | P4222-01MS | PS027820.D | 03 Oct 2024 18:12 | AR\AJ | Ok,M |
| 8 | P4222-01MSD | PS027821.D | 03 Oct 2024 18:36 | AR\AJ | Ok,M |
| 9 | P4232-01 | PS027822.D | 03 Oct 2024 19:00 | AR\AJ | ReRun |
| 10 | P4236-01 | PS027823.D | 03 Oct 2024 19:24 | AR\AJ | Ok,M |
| 11 | P4236-05 | PS027824.D | 03 Oct 2024 19:48 | AR\AJ | Ok,M |
| 12 | P4236-09 | PS027825.D | 03 Oct 2024 20:12 | AR\AJ | Ok,M |
| 13 | P4236-13 | PS027826.D | 03 Oct 2024 20:36 | AR\AJ | Ok,M |
| 14 | I.BLK | PS027827.D | 03 Oct 2024 20:59 | AR\AJ | Ok |
| 15 | HSTDCCC750 | PS027828.D | 03 Oct 2024 21:23 | AR\AJ | Ok,M |
| 16 | P4276-01 | PS027829.D | 03 Oct 2024 22:59 | AR\AJ | Ok,M |
| 17 | P4277-01 | PS027830.D | 03 Oct 2024 23:23 | AR\AJ | Ok,M |
| 18 | P4242-01 | PS027831.D | 03 Oct 2024 23:47 | AR\AJ | Ok,M |
| 19 | P4254-01 | PS027832.D | 04 Oct 2024 00:11 | AR\AJ | Ok,M |
| 20 | P4270-01 | PS027833.D | 04 Oct 2024 00:34 | AR\AJ | Ok,M |
| 21 | P4273-01 | PS027834.D | 04 Oct 2024 00:58 | AR\AJ | Ok,M |

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 # PS100324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/4/2024 9:10:14 AM | | |
| Supervise By | Ankita | Supervise On | 10/4/2024 9:35:20 AM | | |
| SubDirectory | PS100324 | HP Acquire Method | | HP Processing Method | ps091224 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 | P4258-04 | PS027835.D | 04 Oct 2024 01:22 | AR\AJ | Ok,M |
| 23 | P4258-04MS | PS027836.D | 04 Oct 2024 01:46 | AR\AJ | Ok,M |
| 24 | P4258-04MSD | PS027837.D | 04 Oct 2024 02:10 | AR\AJ | Ok,M |
| 25 | PB163890BL | PS027838.D | 04 Oct 2024 02:34 | AR\AJ | Ok |
| 26 | PB163890BS | PS027839.D | 04 Oct 2024 02:58 | AR\AJ | Ok,M |
| 27 | PB163851TB | PS027840.D | 04 Oct 2024 03:22 | AR\AJ | Ok,M |
| 28 | I.BLK | PS027841.D | 04 Oct 2024 03:45 | AR\AJ | Ok,M |
| 29 | HSTDCCC750 | PS027842.D | 04 Oct 2024 04:09 | 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_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS091224

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 9/15/2024 7:48:35 PM | | |
| Supervise By | Ankita | Supervise On | 9/16/2024 10:13:53 AM | | |
| SubDirectory | PS091224 | HP Acquire Method | | HP Processing Method | ps091224 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 | PS027651.D | 12 Sep 2024 20:36 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PS027652.D | 12 Sep 2024 21:00 | | AR\AJ | Ok |
| 3 | HSTDICC200 | HSTDICC200 | PS027653.D | 12 Sep 2024 21:24 | | AR\AJ | Ok,M |
| 4 | HSTDICC500 | HSTDICC500 | PS027654.D | 12 Sep 2024 21:48 | | AR\AJ | Ok |
| 5 | HSTDICC750 | HSTDICC750 | PS027655.D | 12 Sep 2024 22:12 | | AR\AJ | Ok |
| 6 | HSTDICC1000 | HSTDICC1000 | PS027656.D | 12 Sep 2024 22:35 | | AR\AJ | Ok |
| 7 | HSTDICC1500 | HSTDICC1500 | PS027657.D | 12 Sep 2024 22:59 | | AR\AJ | Ok |
| 8 | HSTDICV750 | ICVPS091224 | PS027658.D | 12 Sep 2024 23:23 | | AR\AJ | Ok,M |
| 9 | I.BLK | I.BLK | PS027659.D | 12 Sep 2024 23:47 | | AR\AJ | Ok |
| 10 | HSTDCCC750 | HSTDCCC750 | PS027660.D | 13 Sep 2024 00:11 | | AR\AJ | Ok |
| 11 | P3845-17 | PT-HERB-WP | PS027661.D | 13 Sep 2024 00:35 | please check compound-6 & 7 | AR\AJ | Ok |
| 12 | I.BLK | I.BLK | PS027662.D | 13 Sep 2024 00:59 | | AR\AJ | Ok |
| 13 | HSTDCCC750 | HSTDCCC750 | PS027663.D | 13 Sep 2024 01:22 | | AR\AJ | Ok |

M : Manual Integration

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Fax : 908 789 8922



**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS100324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/4/2024 9:10:14 AM | | |
| Supervise By | Ankita | Supervise On | 10/4/2024 9:35:20 AM | | |
| SubDirectory | PS100324 | HP Acquire Method | | HP Processing Method | ps091224 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 | PS027814.D | 03 Oct 2024 11:13 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PS027815.D | 03 Oct 2024 11:37 | | AR\AJ | Ok,M |
| 3 | HSTDCCC750 | HSTDCCC750 | PS027816.D | 03 Oct 2024 12:01 | CCC Fail for comp 15 PICLORAM | AR\AJ | Ok |
| 4 | PB163866BL | PB163866BL | PS027817.D | 03 Oct 2024 17:01 | | AR\AJ | Ok |
| 5 | PB163866BS | PB163866BS | PS027818.D | 03 Oct 2024 17:25 | PICLORAM Recovery low | AR\AJ | Ok,M |
| 6 | P4222-01 | TP-5 | PS027819.D | 03 Oct 2024 17:48 | | AR\AJ | Ok,M |
| 7 | P4222-01MS | TP-5MS | PS027820.D | 03 Oct 2024 18:12 | Some compound recovery fail | AR\AJ | Ok,M |
| 8 | P4222-01MSD | TP-5MSD | PS027821.D | 03 Oct 2024 18:36 | Some compound recovery fail | AR\AJ | Ok,M |
| 9 | P4232-01 | TP-R | PS027822.D | 03 Oct 2024 19:00 | 2,4-DCAA low | AR\AJ | ReRun |
| 10 | P4236-01 | TP4 | PS027823.D | 03 Oct 2024 19:24 | | AR\AJ | Ok,M |
| 11 | P4236-05 | TP3 | PS027824.D | 03 Oct 2024 19:48 | | AR\AJ | Ok,M |
| 12 | P4236-09 | TP1 | PS027825.D | 03 Oct 2024 20:12 | | AR\AJ | Ok,M |
| 13 | P4236-13 | TP2 | PS027826.D | 03 Oct 2024 20:36 | | AR\AJ | Ok,M |
| 14 | I.BLK | I.BLK | PS027827.D | 03 Oct 2024 20:59 | | AR\AJ | Ok |
| 15 | HSTDCCC750 | HSTDCCC750 | PS027828.D | 03 Oct 2024 21:23 | | AR\AJ | Ok,M |
| 16 | P4276-01 | VNJ-208 | PS027829.D | 03 Oct 2024 22:59 | | AR\AJ | Ok,M |
| 17 | P4277-01 | BU-03-10022024 | PS027830.D | 03 Oct 2024 23:23 | | AR\AJ | Ok,M |

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Fax : 908 789 8922



**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS100324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/4/2024 9:10:14 AM | | |
| Supervise By | Ankita | Supervise On | 10/4/2024 9:35:20 AM | | |
| SubDirectory | PS100324 | HP Acquire Method | | HP Processing Method | ps091224 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 | P4242-01 | TP-Q | PS027831.D | 03 Oct 2024 23:47 | | AR\AJ | Ok,M |
| 19 | P4254-01 | MH-147-SLUDGE | PS027832.D | 04 Oct 2024 00:11 | | AR\AJ | Ok,M |
| 20 | P4270-01 | IB-2 | PS027833.D | 04 Oct 2024 00:34 | | AR\AJ | Ok,M |
| 21 | P4273-01 | AU-05-100224 | PS027834.D | 04 Oct 2024 00:58 | | AR\AJ | Ok,M |
| 22 | P4258-04 | Chamberlain Ave | PS027835.D | 04 Oct 2024 01:22 | | AR\AJ | Ok,M |
| 23 | P4258-04MS | Chamberlain AveMS | PS027836.D | 04 Oct 2024 01:46 | Some compound recovery fail | AR\AJ | Ok,M |
| 24 | P4258-04MSD | Chamberlain AveMSD | PS027837.D | 04 Oct 2024 02:10 | Some compound recovery fail | AR\AJ | Ok,M |
| 25 | PB163890BL | PB163890BL | PS027838.D | 04 Oct 2024 02:34 | | AR\AJ | Ok |
| 26 | PB163890BS | PB163890BS | PS027839.D | 04 Oct 2024 02:58 | | AR\AJ | Ok,M |
| 27 | PB163851TB | PB163851TB | PS027840.D | 04 Oct 2024 03:22 | | AR\AJ | Ok,M |
| 28 | I.BLK | I.BLK | PS027841.D | 04 Oct 2024 03:45 | | AR\AJ | Ok,M |
| 29 | HSTDCCC750 | HSTDCCC750 | PS027842.D | 04 Oct 2024 04:09 | CCC Fail for comp 15 PICLORAM | AR\AJ | Ok,M |

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# TCLP EXTRACTION LOGPAGE

PB163851

**SOP ID :** M1311-TCLP-14

**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 :** 10/02/2024 **Time :** 17:35

**End Prep Date :** 10/03/2024 **Time :** 10:25

**Combination Ratio :** 20

**ZHE Cleaning Batch :** N/A

**Initial Room Temperature:** 23 °C

**Final Room Temperature:** 22 °C

**TCLP Technician Signature :** JP

**Supervisor By :** IZ

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE U | Lot Number |
|---|---|---|
| TCLP-FLUID-1 | N/A | WP108622 |
| HCL-TCLP,1N | N/A | WP108584 |
| HNO3-TCLP,1N | N/A | WP108585 |
| pH Strips | N/A | W1931,W1934,W2350,W2755 |
| pH Strips | N/A | W1937,W1938,W1939,W1940,W1941,W1942 |
| 1 Liter Amber | N/A | 23091 |
| 120ml Plastic bottle | N/A | 21029 |
| 1:1 HNO3 | MP81119 | N/A |

**Extraction Conformance/Non-Conformance Comments:**

Matrix spikes are added after fiftation and before preservation. TUMBLER T-1 checked,30 rpm. p4276-02 is used for MS-MSD Particle size reduction is not required.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/03/24 11:00 | JP / TCLP Room | JPP 10/3 1EXT |
| | Preparation Group | Analysis Group 1ORGDIG |

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**TCLP EXTRACTION LOGPAGE**

PB163851





| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 01 | 100.02 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4254-04 | MH-147-SLUDGE | 02 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.0 | T-1 |
| P4258-04 | Chamberlain Ave | 03 | 100.04 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4270-04 | IB-2 | 04 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.0 | T-1 |
| P4276-02 | VNJ-208 | 05 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| PB163851TB | LEB851 | 06 | N/A | 2000 | N/A | N/A | N/A | 4.94 | 1.0 | T-1 |

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**TCLP Solid Determination**

PB163851

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | N/A | N/A | N/A | N/A | 100 | N/A |
| P4254-04 | MH-147-SLUDGE | N/A | N/A | N/A | N/A | 100 | N/A |
| P4258-04 | Chamberlain Ave | N/A | N/A | N/A | N/A | 100 | N/A |
| P4270-04 | IB-2 | N/A | N/A | N/A | N/A | 100 | N/A |
| P4276-02 | VNJ-208 | N/A | N/A | N/A | N/A | 100 | N/A |
| PB163851TB | LEB851 | N/A | N/A | N/A | N/A | N/A | N/A |

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**TCLP Fluid Determination**

PB163851

**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 |
|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 5.02 | 96.5 | 7.6 | 2.0 | #1 | 4.93 |
| P4254-04 | MH-147-SLUDGE | 5.01 | 96.5 | 6.6 | 1.5 | #1 | 4.93 |
| P4258-04 | Chamberlain Ave | 5.03 | 96.5 | 7.6 | 2.0 | #1 | 4.93 |
| P4270-04 | IB-2 | 5.02 | 96.5 | 8.4 | 3.0 | #1 | 4.93 |
| P4276-02 | VNJ-208 | 5.02 | 96.5 | 9.0 | 4.0 | #1 | 4.93 |
| PB163851TB | LEB851 | N/A | N/A | N/A | N/A | #1 | 4.93 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** tclp p4258 **WorkList ID :** 184036 **Department :** TCLP Extraction **Date :** 10-02-2024 09:43:17

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 1311 |
| P4254-04 | MH-147-SLUDGE | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J51 | 10/01/2024 | 1311 |
| P4258-04 | Chamberlain Ave | Solid | TCLP Extraction | Cool 4 deg C | ROMA02 | H11 | 10/01/2024 | 1311 |
| P4270-04 | IB-2 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J51 | 10/02/2024 | 1311 |
| P4276-02 | VNJ-208 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | J53 | 10/02/2024 | 1311 |

**Date/Time** 10/02/24 16:30
**Raw Sample Received by:**
**Raw Sample Relinquished by:**

**Date/Time** 10/02/24 19:00
**Raw Sample Received by:**
**Raw Sample Relinquished by:**

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# EXTRACTION LOGPAGE

PB163890

**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:** EH

**Filter By:** RS

**pH Meter ID:** N/A

**Hood ID:** 4,7

**Extraction Start Date :** 10/03/2024

**Extraction Start Time :** 12:00

**Extraction End Date :** 10/03/2024

**Extraction End Time :** 17:00

**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 | 5/500 PPM | PP23624 |
| Surrogate | 1.0ML | 5000 PPB | PP23665 |
| 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 | EP2505 |
| NAOH 6N | N/A | EP2491 |
| ISO OCTANE | N/A | E3554 |
| METHANOL | N/A | V14138 |
| Diazomethane | N/A | EP2529 |
| Hexane | N/A | E3805 |
| 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 |
|---|---|---|
| 10/3/24 | RP (EM. 10/3) | R. Patel / PCB Lab |
| 17:05 | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB163890**

**Analytical Method:** M8151A-Herbicide-22 **Concentration Date:** 10/03/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB163851TB | PB163851TB | TCLP Herbicide | 100 | 6 | Evelyn | RUPESH | 10 | | | SEP-7 |
| PB163890BL | HBLK890 | TCLP Herbicide | 1000 | 6 | Evelyn | RUPESH | 10 | | | 8 |
| PB163890BS | HLCS890 | TCLP Herbicide | 1000 | 6 | Evelyn | RUPESH | 10 | | | 9 |
| P4258-04 | CHAMBERLAIN AVE | TCLP Herbicide | 100 | 6 | Evelyn | RUPESH | 10 | A | | 10 |
| P4258-04MS | CHAMBERLAIN AVEMS | TCLP Herbicide | 100 | 6 | Evelyn | RUPESH | 10 | A | | 11 |
| P4258-04MSD | CHAMBERLAIN AVEMSD | TCLP Herbicide | 100 | 6 | Evelyn | RUPESH | 10 | A | | 12 |

* **Extracts relinguished on the same date as received.**

10/3/24

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**TCLP EXTRACTION LOGPAGE**

PB163851

| 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 Po |
|---|---|---|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 01 | 100.02 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4254-04 | MH-147-SLUDGE | 02 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.0 | T-1 |
| P4258-04 | Chamberlain Ave | 03 | 100.04 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4270-04 | IB-2 | 04 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.0 | T-1 |
| P4276-02 | VNJ-208 | 05 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| PB163851TB | LEB851 | 06 | N/A | 2000 | N/A | N/A | N/A | 4.94 | 1.0 | T-1 |

10/03/24
11:00

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP Herbicide | 8151A | | 10/03/24 | 10/04/24 | |
| | | | TCLP Pesticide | 8081B | | 10/03/24 | 10/03/24 | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 86 |
| 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 |
|---|---|---|
| 10/11/24 08:00 | 10/12/24 0:35 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.44 | U | 1 | 0.44 | 1.16 | mg/kg | FC067415.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.28 | U | 1 | 0.28 | 0.77 | mg/kg | FC067415.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.35 | U | 1 | 0.35 | 1.16 | mg/kg | FC067415.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.93 | U | 1 | 0.93 | 1.55 | mg/kg | FC067415.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.09 | U | 1 | 2.09 | 2.32 | mg/kg | FC067415.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.35 | U | 1 | 0.35 | 0.77 | mg/kg | FD048467.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.40 | U | 1 | 0.40 | 1.16 | mg/kg | FD048467.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.11 | U | 1 | 1.11 | 1.94 | mg/kg | FD048467.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.32 | U | 1 | 2.32 | 3.10 | mg/kg | FD048467.D |
| Total AliphaticEPH | Total AliphaticEPH | 4.09 | U | | 4.09 | 6.96 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 4.17 | U | | 4.17 | 6.97 | mg/kg | |
| Total EPH | Total EPH | 8.26 | U | | 8.26 | 13.9 | 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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 86 |
| 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 |
|---|---|---|---|---|
| FC067415.D | 1 | 10/11/24 | 10/12/24 | PB164054 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.44 | U | 0.44 | 1.16 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.28 | U | 0.28 | 0.77 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.35 | U | 0.35 | 1.16 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.93 | U | 0.93 | 1.55 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 2.09 | U | 2.09 | 2.32 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 39.6 | | 40 - 140 | 79% | 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: | P4258-03 | Acq On: | 12 Oct 2024 00:35 |
| Client Sample ID: | Chamberlain Ave | Operator: | YP/AJ |
| Data file: | FC067415.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 24 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.175 | 6.457 | 56543 | 0.441 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.458 | 9.848 | 192435 | 1.469 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.849 | 13.207 | 0 | 0 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.208 | 16.862 | 155045 | 1.223 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.863 | 21.712 | 702470 | 6.676 | 600 | ug/ml |
| Aliphatic EPH | 3.175 | 21.712 | 1106493 | 9.809 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.942 | 12.942 | 4479449 | 39.57 | | ug/ml |
| Aliphatic C9-C28 | 3.175 | 16.862 | 404023 | 3.133 | 1200 | ug/ml |

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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | 10/01/24 | |
| Project: | Perth Amboy | | Date Received: | 10/01/24 | |
| Client Sample ID: | Chamberlain Ave | | SDG No.: | P4258 | |
| Lab Sample ID: | P4258-03 | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 86 | |
| 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 |
|---|---|---|---|---|
| FD048467.D | 1 | 10/11/24 | 10/12/24 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.35 | U | 0.35 | 0.77 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.40 | U | 0.40 | 1.16 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.11 | U | 1.11 | 1.94 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.32 | U | 2.32 | 3.10 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 50.6 | | 40 - 140 | 101% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 51.2 | | 40 - 140 | 102% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 32.6 | | 40 - 140 | 65% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4258-03 | Acq On: | 12 Oct 2024 01:12 |
| Client Sample ID: | Chamberlain Ave | Operator: | YP/AJ |
| Data file: | FD048467.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 67 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.100 | 5.818 | 0 | 0 | 200 | ug/ml |
| Aromatic C12-C16 | 5.819 | 8.425 | 0 | 0 | 300 | ug/ml |
| Aromatic C16-C21 | 8.426 | 12.687 | 1082056 | 6.054 | 500 | ug/ml |
| Aromatic C21-C36 | 12.688 | 18.089 | 1847690 | 11.174 | 800 | ug/ml |
| Aromatic EPH | 4.100 | 18.089 | 2929746 | 17.228 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.379 | 7.379 | 8372339 | 50.57 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.229 | 8.229 | 5312726 | 51.23 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.264 | 11.264 | 6002682 | 32.62 | | ug/ml |

# QC SUMMARY

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM CASE No.: P4258 SAS No.: P4258 SDG No.: P4258

Run Number: FC101124AL

| Client SAMPLE NO. | 1-chlorooctadecane (SURR) | | | TOT OUT |
|---|---|---|---|---|
| Chamberlain Ave | 79 | | | 0 |
| Chamberlain AveMS | 50 | | | 0 |
| Chamberlain AveMSD | 52 | | | 0 |
| PB164054BL | 74 | | | 0 |
| PB164054BS | 82 | | | 0 |
| PB164054BSD | 78 | | | 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: ROMA02

Lab Code: CHEM CASE No.: P4258 SAS No.: P4258 SDG No.: P4258

Run Number: FD101124AR

| Client SAMPLE NO. | 2-Bromonaphthalene (SURR) | 2-Flurobiphenyl (SURR) | ortho-Terphenyl (SURR) | TOT OUT |
|---|---|---|---|---|
| Chamberlain Ave | 101 | 102 | 65 | 0 |
| Chamberlain AveMS | 111 | 117 | 66 | 0 |
| Chamberlain AveMSD | 109 | 115 | 65 | 0 |
| PB164054BL | 114 | 120 | 93 | 0 |
| PB164054BS | 103 | 100 | 83 | 0 |
| PB164054BSD | 101 | 98 | 81 | 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:** Roman E&G Corp

**Lab Code:** CHEM **Cas No:** P4258 **SAS No :** P4258 **SDG No:** P4258

**Sample No :** P4258-03MS **Datafile:** FC067417.D

**Client ID :** Chamberlain AveMS

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 11.6 | 0 | 6.78 | 58 | | (40-140) |
| Aliphatic C12-C16 | 7.7 | 0 | 5.58 | 72 | | (40-140) |
| Aliphatic C16-C21 | 11.6 | 0 | 8.85 | 76 | | (40-140) |
| Aliphatic C21-C28 | 15.5 | 0 | 11.8 | 76 | | (40-140) |
| Aliphatic C28-C40 | 23.2 | 0 | 21.0 | 90 | | (40-140) |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Roman E&G Corp

**Lab Code:** CHEM **Cas No:** P4258 **SAS No :** P4258 **SDG No:** P4258

**Sample No :** P4258-03MSD **Datafile:** FC067418.D

**Client ID :** Chamberlain AveMSD

| 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 | 11.6 | 0 | 6.83 | 59 | | 0.85 \| | (40-140) | 25 |
| Aliphatic C12-C16 | 7.7 | 0 | 5.58 | 72 | | 0.14 \| | (40-140) | 25 |
| Aliphatic C16-C21 | 11.6 | 0 | 8.90 | 77 | | 0.65 \| | (40-140) | 25 |
| Aliphatic C21-C28 | 15.5 | 0 | 11.9 | 77 | | 0.91 \| | (40-140) | 25 |
| Aliphatic C28-C40 | 23.2 | 0 | 21.0 | 91 | | 0.11 \| | (40-140) | 25 |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Roman E&G Corp

**Lab Code:** CHEM **Cas No:** P4258 **SAS No :** P4258 **SDG No:** P4258

**Sample No :** P4258-03MS **Datafile:** FD048469.D

**Client ID :** Chamberlain AveMS

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 7.7 | 0 | 6.55 | 85 | | (40-140) |
| Aromatic C12-C16 | 11.6 | 0 | 10.6 | 91 | | (40-140) |
| Aromatic C16-C21 | 19.3 | 0 | 20.9 | 108 | | (40-140) |
| Aromatic C21-C36 | 30.9 | 0 | 33.6 | 108 | | (40-140) |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Roman E&G Corp

**Lab Code:** CHEM **Cas No:** P4258 **SAS No :** P4258 **SDG No:** P4258

**Sample No :** P4258-03MSD **Datafile:** FD048470.D

**Client ID :** Chamberlain AveMSD

| 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 | 7.7 | 0 | 6.05 | 78 | | 7.85 \| | (40-140) | 25 |
| Aromatic C12-C16 | 11.6 | 0 | 10.4 | 90 | | 1.88 \| | (40-140) | 25 |
| Aromatic C16-C21 | 19.3 | 0 | 20.5 | 106 | | 1.87 \| | (40-140) | 25 |
| Aromatic C21-C36 | 30.9 | 0 | 33.0 | 106 | | 1.87 \| | (40-140) | 25 |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Roman E&G Corp

**Lab Code:** CHEM **Cas No:** P4258 **SAS No :** P4258 **SDG No:** P4258

**Sample No :** PB164054BS **Datafile:** FC067410.D

**Client ID :** PB164054BS

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 10.0 | 5.95 | 60 | | (40-140) |
| Aliphatic C12-C16 | 6.7 | 5.05 | 76 | | (40-140) |
| Aliphatic C16-C21 | 10.0 | 7.93 | 79 | | (40-140) |
| Aliphatic C21-C28 | 13.3 | 10.6 | 80 | | (40-140) |
| Aliphatic C28-C40 | 20.0 | 15.4 | 77 | | (40-140) |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Roman E&G Corp

**Lab Code:** CHEM **Cas No:** P4258 **SAS No :** P4258 **SDG No:** P4258

**Sample No :** PB164054BSD **Datafile:** FC067411.D

**Client ID :** PB164054BSD

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 10 | 5.97 | 60 | | 0.43\| | (40-140) | 50 |
| Aliphatic C12-C16 | 6.7 | 5.08 | 76 | | 0.62\| | (40-140) | 50 |
| Aliphatic C16-C21 | 10 | 7.94 | 80 | | 0.22\| | (40-140) | 50 |
| Aliphatic C21-C28 | 13.3 | 10.6 | 80 | | 0.09\| | (40-140) | 50 |
| Aliphatic C28-C40 | 20.0 | 15.5 | 78 | | 0.74\| | (40-140) | 50 |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Roman E&G Corp

**Lab Code:** CHEM **Cas No:** P4258 **SAS No :** P4258 **SDG No:** P4258

**Sample No :** PB164054BS **Datafile:** FD048462.D

**Client ID :** PB164054BS

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 6.7 | 4.69 | 70 | | (40-140) |
| Aromatic C12-C16 | 10.0 | 7.59 | 76 | | (40-140) |
| Aromatic C16-C21 | 16.7 | 14.5 | 87 | | (40-140) |
| Aromatic C21-C36 | 26.7 | 21.9 | 82 | | (40-140) |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Roman E&G Corp

**Lab Code:** CHEM **Cas No:** P4258 **SAS No :** P4258 **SDG No:** P4258

**Sample No :** PB164054BSD **Datafile:** FD048463.D

**Client ID :** PB164054BSD

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 6.7 | 4.58 | 69 | | 2.3\| | (40-140) | 50 |
| Aromatic C12-C16 | 10 | 7.43 | 74 | | 2\| | (40-140) | 50 |
| Aromatic C16-C21 | 16.7 | 14.2 | 85 | | 2\| | (40-140) | 50 |
| Aromatic C21-C36 | 26.6 | 21.6 | 81 | | 1.4\| | (40-140) | 50 |

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB164054BL

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Instrument ID: FID_C Lab Sample ID: PB164054BL

Matrix: (soil/water) Solid Date Extracted: 10/11/2024 8:20:00

Level: (low/med) low

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

| EPA SAMPLE NO. | LAB SAMPLE ID |
|---|---|
| PB164054BS | PB164054BS |
| PB164054BSD | PB164054BSD |
| CHAMBERLAIN AVE | P4258-03 |
| CHAMBERLAIN AVEMS | P4258-03MS |
| CHAMBERLAIN AVEMSD | P4258-03MSD |

COMMENTS:

# QC SAMPLE DATA

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | |
| Project: | Perth Amboy | | | Date Received: | |
| Client Sample ID: | PB164054BL | | | SDG No.: | P4258 |
| Lab Sample ID: | PB164054BL | | | 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 |
|---|---|---|
| 10/11/24 08:20 | 10/11/24 20:55 | PB164054 |

| 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 | FC067409.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.24 | U | 1 | 0.24 | 0.67 | mg/kg | FC067409.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.30 | U | 1 | 0.30 | 1.00 | mg/kg | FC067409.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.80 | U | 1 | 0.80 | 1.33 | mg/kg | FC067409.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.80 | U | 1 | 1.80 | 2.00 | mg/kg | FC067409.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.30 | U | 1 | 0.30 | 0.67 | mg/kg | FD048461.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.34 | U | 1 | 0.34 | 1.00 | mg/kg | FD048461.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 0.96 | U | 1 | 0.96 | 1.67 | mg/kg | FD048461.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.00 | U | 1 | 2.00 | 2.66 | mg/kg | FD048461.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.52 | U | | 3.52 | 5.99 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 3.60 | U | | 3.60 | 6.00 | mg/kg | |
| Total EPH | Total EPH | 7.12 | U | | 7.12 | 12.0 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | PB164054BL | | SDG No.: | P4258 | |
| Lab Sample ID: | PB164054BL | | 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 |
|---|---|---|---|---|
| FC067409.D | 1 | 10/11/24 | 10/11/24 | PB164054 |

| 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) | | 36.8 | | 40 - 140 | 74% | 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: | PB164054BL | Acq On: | 11 Oct 2024 20:55 |
| Client Sample ID: | PB164054BL | Operator: | YP/AJ |
| Data file: | FC067409.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 | 0 | 0 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.458 | 9.848 | 0 | 0 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.849 | 13.207 | 0 | 0 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.208 | 16.862 | 0 | 0 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.863 | 21.712 | 0 | 0 | 600 | ug/ml |
| Aliphatic EPH | 3.175 | 21.712 | 0 | 0 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.943 | 12.943 | 4160735 | 36.76 | | ug/ml |
| Aliphatic C9-C28 | 3.175 | 16.862 | 0 | 0 | 1200 | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | PB164054BL | | SDG No.: | P4258 | |
| Lab Sample ID: | PB164054BL | | 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 |
|---|---|---|---|---|
| FD048461.D | 1 | 10/11/24 | 10/11/24 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.30 | U | 0.30 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.34 | U | 0.34 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 0.96 | U | 0.96 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.00 | U | 2.00 | 2.66 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 57.0 | | 40 - 140 | 114% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 60.1 | | 40 - 140 | 120% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 46.4 | | 40 - 140 | 93% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB164054BL | Acq On: | 11 Oct 2024 21:31 |
| Client Sample ID: | PB164054BL | Operator: | YP/AJ |
| Data file: | FD048461.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 61 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.100 | 5.818 | 0 | 0 | 200 | ug/ml |
| Aromatic C12-C16 | 5.819 | 8.425 | 0 | 0 | 300 | ug/ml |
| Aromatic C16-C21 | 8.426 | 12.687 | 0 | 0 | 500 | ug/ml |
| Aromatic C21-C36 | 12.688 | 18.089 | 0 | 0 | 800 | ug/ml |
| Aromatic EPH | 4.100 | 18.089 | 0 | 0 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.379 | 7.379 | 9429559 | 56.95 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.229 | 8.229 | 6231461 | 60.09 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.265 | 11.265 | 8536307 | 46.39 | | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | PB164054BS | | SDG No.: | P4258 | |
| Lab Sample ID: | PB164054BS | | 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 |
|---|---|---|
| 10/11/24 08:20 | 10/11/24 21:31 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 5.95 | | 1 | 0.38 | 1.00 | mg/kg | FC067410.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.05 | | 1 | 0.24 | 0.67 | mg/kg | FC067410.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 7.93 | | 1 | 0.30 | 1.00 | mg/kg | FC067410.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.6 | | 1 | 0.80 | 1.33 | mg/kg | FC067410.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 15.4 | | 1 | 1.80 | 2.00 | mg/kg | FC067410.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 4.69 | | 1 | 0.30 | 0.67 | mg/kg | FD048462.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 7.59 | | 1 | 0.34 | 1.00 | mg/kg | FD048462.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 14.5 | | 1 | 0.96 | 1.67 | mg/kg | FD048462.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 21.9 | | 1 | 2.00 | 2.67 | mg/kg | FD048462.D |
| Total AliphaticEPH | Total AliphaticEPH | 44.9 | | | 3.52 | 6.00 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 48.7 | | | 3.60 | 6.01 | mg/kg | |
| Total EPH | Total EPH | 93.6 | | | 7.12 | 12.0 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | PB164054BS | | SDG No.: | P4258 | |
| Lab Sample ID: | PB164054BS | | 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 |
|---|---|---|---|---|
| FC067410.D | 1 | 10/11/24 | 10/11/24 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 5.95 | | 0.38 | 1.00 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.05 | | 0.24 | 0.67 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 7.93 | | 0.30 | 1.00 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.6 | | 0.80 | 1.33 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 15.4 | | 1.80 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 41.0 | | 40 - 140 | 82% | 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: | PB164054BS | Acq On: | 11 Oct 2024 21:31 |
| Client Sample ID: | PB164054BS | Operator: | YP/AJ |
| Data file: | FC067410.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 | 11465632 | 89.328 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.458 | 9.848 | 9918535 | 75.738 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.849 | 13.207 | 15643745 | 118.985 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.208 | 16.862 | 20179814 | 159.117 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.863 | 21.712 | 24315542 | 231.102 | 600 | ug/ml |
| Aliphatic EPH | 3.175 | 21.712 | 81523268 | 674.27 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.943 | 12.943 | 4641045 | 41 | | ug/ml |
| Aliphatic C9-C28 | 3.175 | 16.862 | 57207726 | 443.168 | 1200 | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | | Date Collected: | |
| Project: | Perth Amboy | | | Date Received: | |
| Client Sample ID: | PB164054BS | | | SDG No.: | P4258 |
| Lab Sample ID: | PB164054BS | | | 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 |
|---|---|---|---|---|
| FD048462.D | 1 | 10/11/24 | 10/11/24 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 4.69 | | 0.30 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 7.59 | | 0.34 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 14.5 | | 0.96 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 21.9 | | 2.00 | 2.67 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 51.5 | | 40 - 140 | 103% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 50.2 | | 40 - 140 | 100% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 41.3 | | 40 - 140 | 83% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB164054BS | Acq On: | 11 Oct 2024 22:07 |
| Client Sample ID: | PB164054BS | Operator: | YP/AJ |
| Data file: | FD048462.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 62 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.100 | 5.818 | 12735640 | 70.369 | 200 | ug/ml |
| Aromatic C12-C16 | 5.819 | 8.425 | 21649760 | 113.949 | 300 | ug/ml |
| Aromatic C16-C21 | 8.426 | 12.687 | 38809486 | 217.142 | 500 | ug/ml |
| Aromatic C21-C36 | 12.688 | 18.089 | 54295016 | 328.343 | 800 | ug/ml |
| Aromatic EPH | 4.100 | 18.089 | 127489902 | 729.803 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.379 | 7.379 | 8532621 | 51.54 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.229 | 8.229 | 5202838 | 50.17 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.265 | 11.265 | 7598488 | 41.3 | | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | PB164054BSD | | SDG No.: | P4258 | |
| Lab Sample ID: | PB164054BSD | | 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 |
|---|---|---|
| 10/11/24 08:20 | 10/11/24 22:07 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 5.97 | | 1 | 0.38 | 1.00 | mg/kg | FC067411.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.08 | | 1 | 0.24 | 0.67 | mg/kg | FC067411.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 7.94 | | 1 | 0.30 | 1.00 | mg/kg | FC067411.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.6 | | 1 | 0.80 | 1.33 | mg/kg | FC067411.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 15.5 | | 1 | 1.80 | 2.00 | mg/kg | FC067411.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 4.58 | | 1 | 0.30 | 0.67 | mg/kg | FD048463.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 7.43 | | 1 | 0.34 | 1.00 | mg/kg | FD048463.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 14.2 | | 1 | 0.96 | 1.67 | mg/kg | FD048463.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 21.6 | | 1 | 2.00 | 2.66 | mg/kg | FD048463.D |
| Total AliphaticEPH | Total AliphaticEPH | 45.1 | | | 3.52 | 5.99 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 47.8 | | | 3.60 | 6.00 | mg/kg | |
| Total EPH | Total EPH | 92.9 | | | 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: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | PB164054BSD | | SDG No.: | P4258 | |
| Lab Sample ID: | PB164054BSD | | 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 |
|---|---|---|---|---|
| FC067411.D | 1 | 10/11/24 | 10/11/24 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 5.97 | | 0.38 | 1.00 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.08 | | 0.24 | 0.67 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 7.94 | | 0.30 | 1.00 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.6 | | 0.80 | 1.33 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 15.5 | | 1.80 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 38.8 | | 40 - 140 | 78% | 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: | PB164054BSD | Acq On: | 11 Oct 2024 22:07 |
| Client Sample ID: | PB164054BSD | Operator: | YP/AJ |
| Data file: | FC067411.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 20 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.175 | 6.457 | 11514355 | 89.707 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.458 | 9.848 | 9982342 | 76.226 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.849 | 13.207 | 15666132 | 119.156 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.208 | 16.862 | 20204170 | 159.309 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.863 | 21.712 | 24415644 | 232.053 | 600 | ug/ml |
| Aliphatic EPH | 3.175 | 21.712 | 81782643 | 676.451 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.944 | 12.944 | 4391796 | 38.8 | | ug/ml |
| Aliphatic C9-C28 | 3.175 | 16.862 | 57366999 | 444.398 | 1200 | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | PB164054BSD | | SDG No.: | P4258 | |
| Lab Sample ID: | PB164054BSD | | 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 |
|---|---|---|---|---|
| FD048463.D | 1 | 10/11/24 | 10/11/24 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 4.58 | | 0.30 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 7.43 | | 0.34 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 14.2 | | 0.96 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 21.6 | | 2.00 | 2.66 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 50.6 | | 40 - 140 | 101% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 49.2 | | 40 - 140 | 98% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 40.5 | | 40 - 140 | 81% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB164054BSD | Acq On: | 11 Oct 2024 22:44 |
| Client Sample ID: | PB164054BSD | Operator: | YP/AJ |
| Data file: | FD048463.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 63 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.100 | 5.818 | 12446530 | 68.771 | 200 | ug/ml |
| Aromatic C12-C16 | 5.819 | 8.425 | 21187218 | 111.514 | 300 | ug/ml |
| Aromatic C16-C21 | 8.426 | 12.687 | 38041343 | 212.845 | 500 | ug/ml |
| Aromatic C21-C36 | 12.688 | 18.089 | 53515255 | 323.627 | 800 | ug/ml |
| Aromatic EPH | 4.100 | 18.089 | 125190346 | 716.757 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.379 | 7.379 | 8378840 | 50.61 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.229 | 8.229 | 5106679 | 49.24 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.265 | 11.265 | 7452371 | 40.5 | | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | Chamberlain AveMS | | SDG No.: | P4258 | |
| Lab Sample ID: | P4258-03MS | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 86 | |
| 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 |
|---|---|---|
| 10/11/24 08:20 | 10/12/24 1:50 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 6.78 | | 1 | 0.44 | 1.16 | mg/kg | FC067417.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.58 | | 1 | 0.28 | 0.77 | mg/kg | FC067417.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.85 | | 1 | 0.35 | 1.16 | mg/kg | FC067417.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 11.8 | | 1 | 0.93 | 1.55 | mg/kg | FC067417.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 21.0 | | 1 | 2.09 | 2.32 | mg/kg | FC067417.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.55 | | 1 | 0.35 | 0.77 | mg/kg | FD048469.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 10.6 | | 1 | 0.39 | 1.16 | mg/kg | FD048469.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 20.9 | | 1 | 1.11 | 1.93 | mg/kg | FD048469.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 33.6 | | 1 | 2.32 | 3.09 | mg/kg | FD048469.D |
| Total AliphaticEPH | Total AliphaticEPH | 54.0 | | | 4.08 | 6.96 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 71.7 | | | 4.17 | 6.95 | mg/kg | |
| Total EPH | Total EPH | 126 | | | 8.26 | 13.9 | 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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | Chamberlain AveMS | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03MS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 86 |
| 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 |
|---|---|---|---|---|
| FC067417.D | 1 | 10/11/24 | 10/12/24 | PB164054 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 6.78 | | 0.44 | 1.16 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 5.58 | | 0.28 | 0.77 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 8.85 | | 0.35 | 1.16 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 11.8 | | 0.93 | 1.55 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 21.0 | | 2.09 | 2.32 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 25.0 | | 40 - 140 | 50% | 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: | P4258-03MS | Acq On: | 12 Oct 2024 01:50 |
| Client Sample ID: | Chamberlain AveMS | Operator: | YP/AJ |
| Data file: | FC067417.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 26 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.175 | 6.457 | 11259049 | 87.718 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.458 | 9.848 | 9442477 | 72.103 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.849 | 13.207 | 15043294 | 114.418 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.208 | 16.862 | 19405623 | 153.013 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.863 | 21.712 | 28582430 | 271.655 | 600 | ug/ml |
| Aliphatic EPH | 3.175 | 21.712 | 83732873 | 698.908 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.942 | 12.942 | 2825735 | 24.96 | | ug/ml |
| Aliphatic C9-C28 | 3.175 | 16.862 | 55150443 | 427.252 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | |
| Project: | Perth Amboy | Date Received: | |
| Client Sample ID: | Chamberlain AveMS | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03MS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 86 |
| 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 |
|---|---|---|---|---|
| FD048469.D | 1 | 10/11/24 | 10/12/24 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.55 | | 0.35 | 0.77 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 10.6 | | 0.39 | 1.16 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 20.9 | | 1.11 | 1.93 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 33.6 | | 2.32 | 3.09 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 55.4 | | 40 - 140 | 111% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 58.4 | | 40 - 140 | 117% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 33.0 | | 40 - 140 | 66% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4258-03MS | Acq On: | 12 Oct 2024 02:27 |
| Client Sample ID: | Chamberlain AveMS | Operator: | YP/AJ |
| Data file: | FD048469.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 69 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.100 | 5.818 | 15333341 | 84.722 | 200 | ug/ml |
| Aromatic C12-C16 | 5.819 | 8.425 | 25971347 | 136.695 | 300 | ug/ml |
| Aromatic C16-C21 | 8.426 | 12.687 | 48305195 | 270.272 | 500 | ug/ml |
| Aromatic C21-C36 | 12.688 | 18.089 | 71801827 | 434.213 | 800 | ug/ml |
| Aromatic EPH | 4.100 | 18.089 | 161411710 | 925.901 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.264 | 11.264 | 6078564 | 33.04 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.380 | 7.380 | 9165846 | 55.36 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.230 | 8.230 | 6055741 | 58.39 | | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | Chamberlain AveMSD | | SDG No.: | P4258 | |
| Lab Sample ID: | P4258-03MSD | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 86 | |
| Sample Wt/Vol: | 30.09 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 10/11/24 08:20 | 10/12/24 2:27 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 6.83 | | 1 | 0.44 | 1.16 | mg/kg | FC067418.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.58 | | 1 | 0.28 | 0.77 | mg/kg | FC067418.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.90 | | 1 | 0.35 | 1.16 | mg/kg | FC067418.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 11.9 | | 1 | 0.93 | 1.55 | mg/kg | FC067418.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 21.0 | | 1 | 2.09 | 2.32 | mg/kg | FC067418.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.05 | | 1 | 0.35 | 0.77 | mg/kg | FD048470.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 10.4 | | 1 | 0.39 | 1.16 | mg/kg | FD048470.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 20.5 | | 1 | 1.11 | 1.93 | mg/kg | FD048470.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 33.0 | | 1 | 2.32 | 3.09 | mg/kg | FD048470.D |
| Total AliphaticEPH | Total AliphaticEPH | 54.2 | | | 4.08 | 6.96 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 70.0 | | | 4.17 | 6.95 | mg/kg | |
| Total EPH | Total EPH | 124 | | | 8.26 | 13.9 | 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

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | Chamberlain AveMSD | | SDG No.: | P4258 | |
| Lab Sample ID: | P4258-03MSD | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 86 | |
| Sample Wt/Vol: | 30.09 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067418.D | 1 | 10/11/24 | 10/12/24 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 6.83 | | 0.44 | 1.16 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.58 | | 0.28 | 0.77 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.90 | | 0.35 | 1.16 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 11.9 | | 0.93 | 1.55 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 21.0 | | 2.09 | 2.32 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 26.0 | | 40 - 140 | 52% | 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: | P4258-03MSD | Acq On: | 12 Oct 2024 02:27 |
| Client Sample ID: | Chamberlain AveMSD | Operator: | YP/AJ |
| Data file: | FC067418.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 27 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.175 | 6.457 | 11335119 | 88.311 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.458 | 9.848 | 9463249 | 72.262 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.849 | 13.207 | 15147847 | 115.214 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.208 | 16.862 | 19600942 | 154.553 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.863 | 21.712 | 28641624 | 272.218 | 600 | ug/ml |
| Aliphatic EPH | 3.175 | 21.712 | 84188781 | 702.557 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.941 | 12.941 | 2940829 | 25.98 | | ug/ml |
| Aliphatic C9-C28 | 3.175 | 16.862 | 55547157 | 430.34 | 1200 | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Roman E&G Corp | | Date Collected: | | |
| Project: | Perth Amboy | | Date Received: | | |
| Client Sample ID: | Chamberlain AveMSD | | SDG No.: | P4258 | |
| Lab Sample ID: | P4258-03MSD | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 86 | |
| Sample Wt/Vol: | 30.09 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048470.D | 1 | 10/11/24 | 10/12/24 | PB164054 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.05 | | 0.35 | 0.77 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 10.4 | | 0.39 | 1.16 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 20.5 | | 1.11 | 1.93 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 33.0 | | 2.32 | 3.09 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 54.4 | | 40 - 140 | 109% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 57.3 | | 40 - 140 | 115% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 32.4 | | 40 - 140 | 65% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4258-03MSD | Acq On: | 12 Oct 2024 03:04 |
| Client Sample ID: | Chamberlain AveMSD | Operator: | YP/AJ |
| Data file: | FD048470.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 70 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.100 | 5.818 | 14167618 | 78.281 | 200 | ug/ml |
| Aromatic C12-C16 | 5.819 | 8.425 | 25463495 | 134.022 | 300 | ug/ml |
| Aromatic C16-C21 | 8.426 | 12.687 | 47480476 | 265.657 | 500 | ug/ml |
| Aromatic C21-C36 | 12.688 | 18.089 | 70530584 | 426.526 | 800 | ug/ml |
| Aromatic EPH | 4.100 | 18.089 | 157642173 | 904.485 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.264 | 11.264 | 5967413 | 32.43 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.379 | 7.379 | 9001040 | 54.36 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.230 | 8.230 | 5945022 | 57.33 | | 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 : FC101124AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC067408.D** | | | | | | |
| Aliphatic C9-C12 | 7676829.000 | 60.000 | 3.175 | 6.457 | 127947.150 | 128354.488 | 0.317 |
| Aliphatic C12-C16 | 4998555.000 | 40.000 | 6.458 | 9.848 | 124963.875 | 130957.677 | 4.577 |
| Aliphatic C16-C21 | 7249603.000 | 60.000 | 9.849 | 13.207 | 120826.717 | 131476.102 | 8.100 |
| Aliphatic C21-C28 | 9222288.000 | 80.000 | 13.208 | 16.862 | 115278.600 | 126823.664 | 9.103 |
| Aliphatic C28-C40 | 12019967.000 | 120.000 | 16.863 | 21.712 | 100166.392 | 105215.848 | 4.799 |
| Aliphatic EPH | 41167242.000 | 360.000 | 3.175 | 21.712 | 114353.450 | 121110.937 | 5.580 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 11 Oct 2024 19:42 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC067408.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 | 7676829.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.458 | 9.848 | 4998555.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 9.849 | 13.207 | 7249603.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.208 | 16.862 | 9222288.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 16.863 | 21.712 | 12019967.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.175 | 21.712 | 41167242.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FC101124AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC067420.D** | | | | | | |
| Aliphatic C9-C12 | 7672816.000 | 60.000 | 3.175 | 6.457 | 127880.267 | 128354.488 | 0.369 |
| Aliphatic C12-C16 | 5034510.000 | 40.000 | 6.458 | 9.848 | 125862.750 | 130957.677 | 3.891 |
| Aliphatic C16-C21 | 7291288.000 | 60.000 | 9.849 | 13.207 | 121521.467 | 131476.102 | 7.571 |
| Aliphatic C21-C28 | 9260604.000 | 80.000 | 13.208 | 16.862 | 115757.550 | 126823.664 | 8.726 |
| Aliphatic C28-C40 | 11796013.000 | 120.000 | 16.863 | 21.712 | 98300.108 | 105215.848 | 6.573 |
| Aliphatic EPH | 41055231.000 | 360.000 | 3.175 | 21.712 | 114042.308 | 121110.937 | 5.836 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 12 Oct 2024 03:41 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC067420.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 | 7672816.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.458 | 9.848 | 5034510.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 9.849 | 13.207 | 7291288.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.208 | 16.862 | 9260604.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 16.863 | 21.712 | 11796013.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.175 | 21.712 | 41055231.000 | 360.000 | ug/ml |

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Fax : 908 789 8922





# Continuing Calibration Report for SequenceID : FD101124AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD048460.D** | | | | | | |
| Aromatic C10-C12 | 7064482.000 | 40.000 | 4.100 | 5.818 | 176612.050 | 180984.840 | 2.416 |
| Aromatic C12-C16 | 10873476.000 | 60.000 | 5.819 | 8.425 | 181224.600 | 189995.313 | 4.616 |
| Aromatic C16-C21 | 13241236.000 | 80.000 | 8.426 | 12.687 | 165515.450 | 178728.230 | 7.393 |
| Aromatic C21-C36 | 26858279.000 | 180.000 | 12.688 | 18.089 | 149212.661 | 165360.750 | 9.765 |
| Aromatic EPH | 58037473.000 | 360.000 | 4.100 | 18.089 | 161215.203 | 174173.072 | 7.440 |

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Fax : 908 789 8922



| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 11 Oct 2024 19:42 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD048460.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.100 | 5.818 | 7064482.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 5.819 | 8.425 | 10873476.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.426 | 12.687 | 13241236.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 12.688 | 18.089 | 26858279.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.100 | 18.089 | 58037473.000 | 360.000 | ug/ml |

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Fax : 908 789 8922





# Continuing Calibration Report for SequenceID : FD101124AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD048472.D** | | | | | | |
| Aromatic C10-C12 | 7272361.000 | 40.000 | 4.100 | 5.818 | 181809.025 | 180984.840 | -0.455 |
| Aromatic C12-C16 | 10992353.000 | 60.000 | 5.819 | 8.425 | 183205.883 | 189995.313 | 3.573 |
| Aromatic C16-C21 | 13410430.000 | 80.000 | 8.426 | 12.687 | 167630.375 | 178728.230 | 6.209 |
| Aromatic C21-C36 | 27444861.000 | 180.000 | 12.688 | 18.089 | 152471.450 | 165360.750 | 7.795 |
| Aromatic EPH | 59120005.000 | 360.000 | 4.100 | 18.089 | 164222.236 | 174173.072 | 5.713 |

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Fax : 908 789 8922



| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 12 Oct 2024 04:18 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD048472.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.100 | 5.818 | 7272361.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 5.819 | 8.425 | 10992353.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.426 | 12.687 | 13410430.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 12.688 | 18.089 | 27444861.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.100 | 18.089 | 59120005.000 | 360.000 | ug/ml |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067415.D
Signal(s) : FID1A.ch
Acq On : 12 Oct 2024 00:35
Operator : YP/AJ
Sample : P4258-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
Chamberlain Ave

Integration File: autoint1.e
Quant Time: Oct 14 03:26:10 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... | 12.942 | 4479449 | 39.573 ug/ml |
| Spiked Amount 50.000 | | Recovery = 79.15% | |
| Target Compounds | | | |

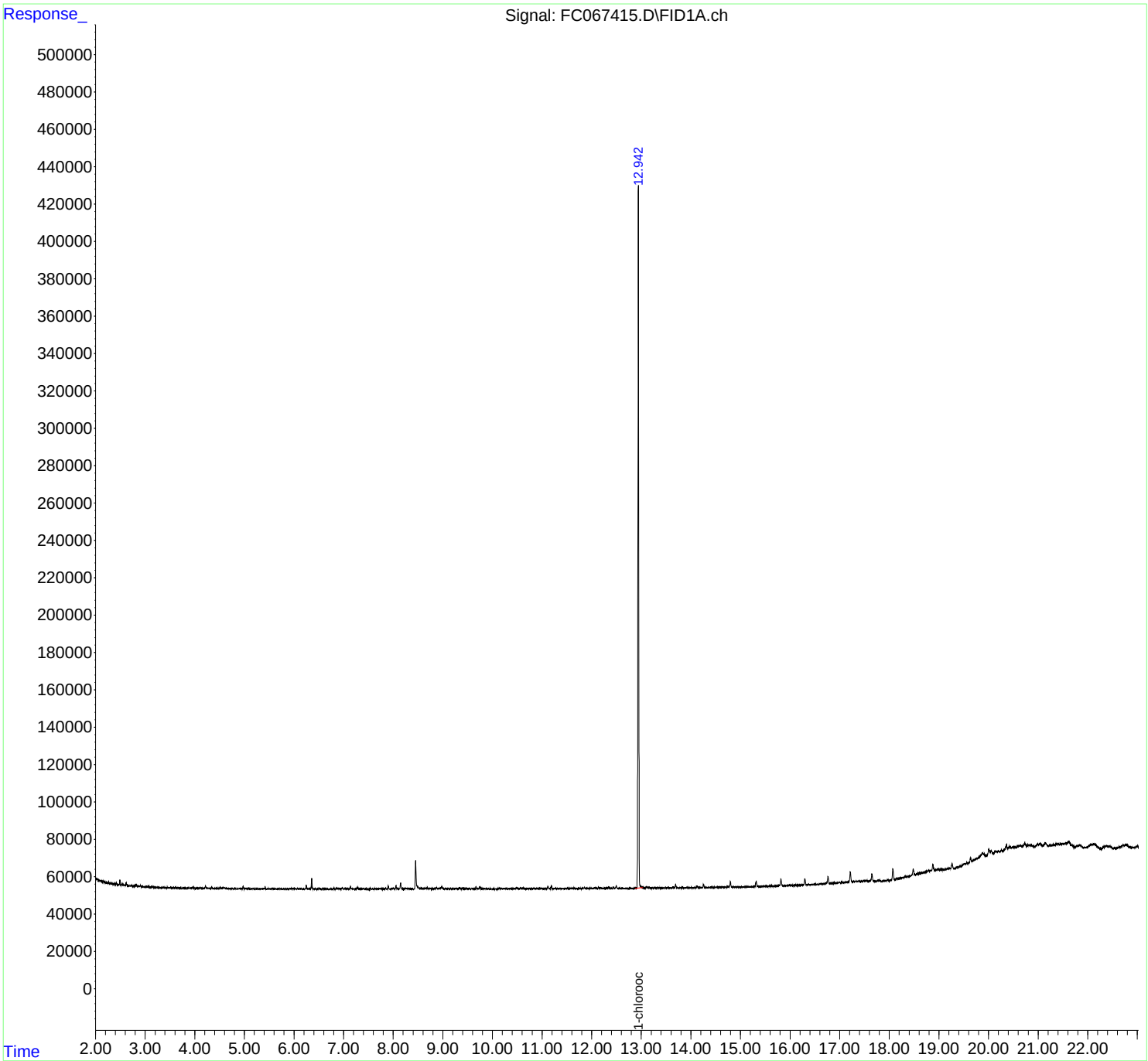
(f)=RT Delta > 1/2 Window (m)=manual int.

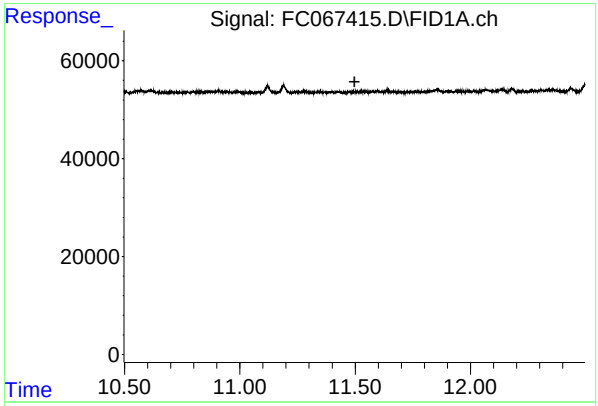
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067415.D
Signal(s) : FID1A.ch
Acq On : 12 Oct 2024 00:35
Operator : YP/AJ
Sample : P4258-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
Chamberlain Ave

Integration File: autoint1.e
Quant Time: Oct 14 03:26:10 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

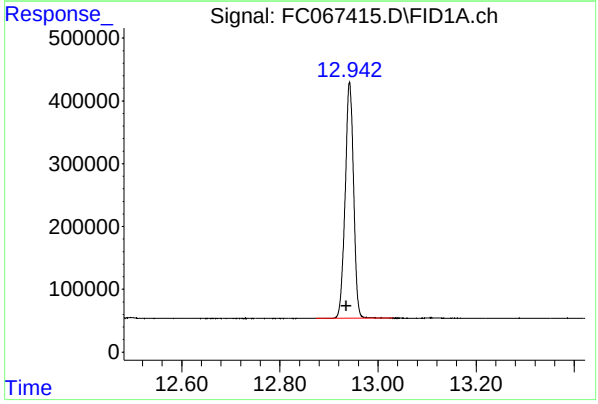





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.497 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
Chamberlain Ave




#12 1-chlorooctadecane (SURR)

R.T.: 12.942 min
Delta R.T.: 0.006 min
Response: 4479449
Conc: 39.57 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067415.D
Signal(s) : FID1A.ch
Acq On : 12 Oct 2024 00:35
Sample : P4258-03
Misc :
ALS Vial : 24 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 | 6.358 | 6.305 | 6.402 | BB | 5733 | 56543 | 1.26% | 1.012% |
| 2 | 8.453 | 8.402 | 8.524 | BB | 14972 | 192435 | 4.30% | 3.445% |
| 3 | 12.942 | 12.874 | 13.030 | BB | 375171 | 4479449 | 100.00% | 80.191% |
| 4 | 15.815 | 15.730 | 15.849 | BB | 3561 | 54015 | 1.21% | 0.967% |
| 5 | 16.297 | 16.249 | 16.329 | BB | 3429 | 47247 | 1.05% | 0.846% |
| 6 | 16.764 | 16.715 | 16.799 | BB | 3747 | 53783 | 1.20% | 0.963% |
| 7 | 17.214 | 17.159 | 17.259 | BB | 5354 | 76477 | 1.71% | 1.369% |
| 8 | 17.649 | 17.594 | 17.689 | BB | 3835 | 59018 | 1.32% | 1.057% |
| 9 | 18.072 | 18.012 | 18.104 | BB | 5869 | 83638 | 1.87% | 1.497% |
| 10 | 18.482 | 18.292 | 18.515 | BB | 3365 | 56824 | 1.27% | 1.017% |
| 11 | 18.879 | 18.765 | 18.920 | BB | 3339 | 56297 | 1.26% | 1.008% |
| 12 | 19.640 | 19.335 | 19.665 | BV | 2464 | 54822 | 1.22% | 0.981% |
| 13 | 20.005 | 19.665 | 20.039 | VV | 3087 | 236284 | 5.27% | 4.230% |
| 14 | 20.056 | 20.039 | 20.097 | VB | 1714 | 33320 | 0.74% | 0.596% |
| 15 | 20.360 | 20.294 | 20.385 | BV | 2305 | 45790 | 1.02% | 0.820% |

Sum of corrected areas: 5585941

Aliphatic EPH 100224.M Mon Oct 14 04:49:00 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048467.D
Signal(s) : FID2B.ch
Acq On : 12 Oct 2024 01:12
Operator : YP/AJ
Sample : P4258-03
Misc :
ALS Vial : 67 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
Chamberlain Ave

Integration File: autoint1.e
Quant Time: Oct 14 04:59:31 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 | 8372339 | 50.567 ug/ml |
| Spiked Amount 50.000 | | Recovery = 101.13% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.229 | 5312726 | 51.229 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 102.46% | |
| 11) S ortho-Terphenyl (SURR) | 11.264 | 6002682 | 32.624 ug/ml |
| Spiked Amount 50.000 | | Recovery = 65.25% | |
| **Target Compounds** | | | |

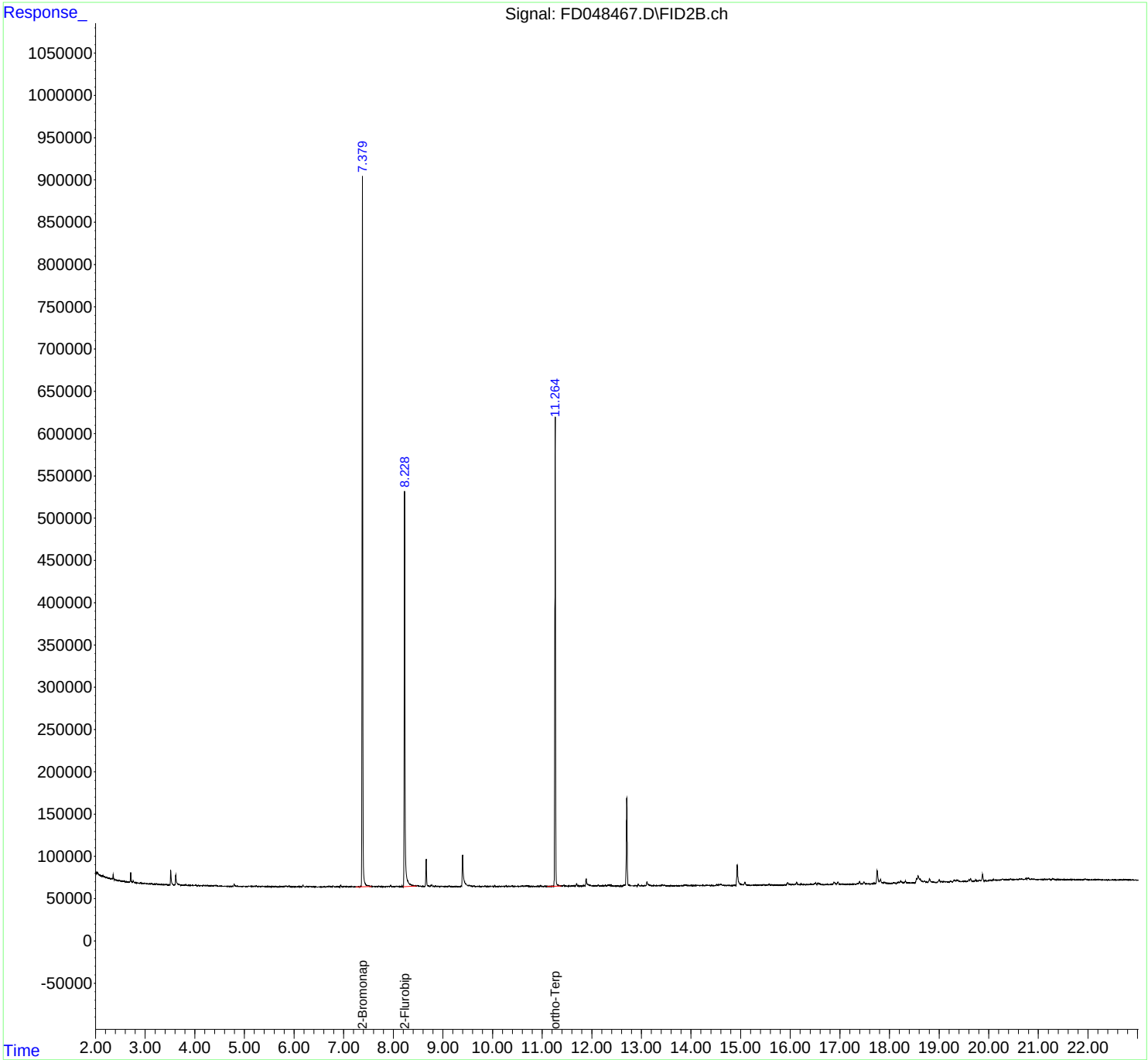
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048467.D
Signal(s) : FID2B.ch
Acq On : 12 Oct 2024 01:12
Operator : YP/AJ
Sample : P4258-03
Misc :
ALS Vial : 67 Sample Multiplier: 1

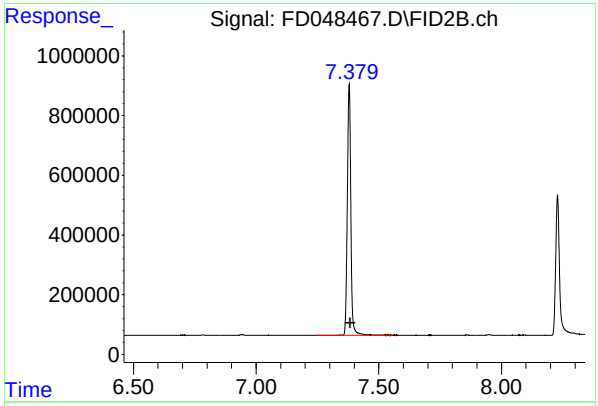
**Instrument :**
FID_D
**ClientSampleId :**
Chamberlain Ave

Integration File: autoint1.e
Quant Time: Oct 14 04:59:31 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

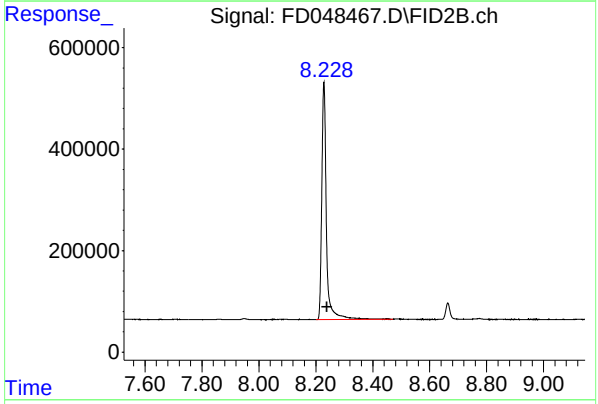


**Instrument :**
FID_D
**ClientSampleId :**
Chamberlain Ave



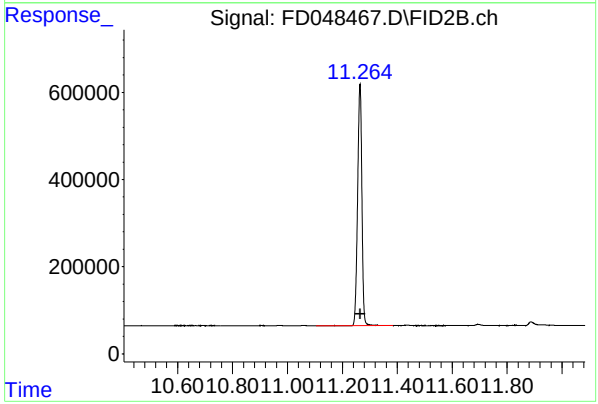

#4 2-Bromonaphthalene (SURR)

R.T.: 7.379 min
Delta R.T.: -0.005 min
Response: 8372339
Conc: 50.57 ug/ml




#6 2-Flurobiphenyl (SURR)

R.T.: 8.229 min
Delta R.T.: -0.010 min
Response: 5312726
Conc: 51.23 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.264 min
Delta R.T.: -0.001 min
Response: 6002682
Conc: 32.62 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048467.D
Signal(s) : FID2B.ch
Acq On : 12 Oct 2024 01:12
Sample : P4258-03
Misc :
ALS Vial : 67 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 | 2.708 | 2.651 | 2.738 | BV | 11491 | 97321 | 1.16% | 0.423% |
| 2 | 3.515 | 3.461 | 3.598 | BV | 17846 | 195436 | 2.34% | 0.849% |
| 3 | 3.615 | 3.598 | 3.721 | VB | 11973 | 175488 | 2.10% | 0.762% |
| 4 | 7.379 | 7.294 | 7.528 | BB | 835218 | 8361270 | 100.00% | 36.327% |
| 5 | 8.229 | 8.191 | 8.434 | BB | 466897 | 5272746 | 63.06% | 22.908% |
| 6 | 8.664 | 8.608 | 8.734 | BB | 32309 | 336065 | 4.02% | 1.460% |
| 7 | 9.398 | 9.328 | 9.521 | BV | 36806 | 622518 | 7.45% | 2.705% |
| 8 | 11.264 | 11.198 | 11.344 | BB | 557157 | 5984838 | 71.58% | 26.002% |
| 9 | 11.887 | 11.768 | 11.951 | BB | 8014 | 123473 | 1.48% | 0.536% |
| 10 | 12.705 | 12.678 | 12.784 | BB | 103539 | 1220287 | 14.59% | 5.302% |
| 11 | 14.930 | 14.818 | 15.051 | BB | 24205 | 413193 | 4.94% | 1.795% |
| 12 | 17.750 | 17.701 | 17.794 | BV | 14300 | 214210 | 2.56% | 0.931% |
| | | | Sum of corrected areas: | | | 23016844 | | |

Aromatic EPH 093024.M Mon Oct 14 06:26:25 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067409.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 20:55
Operator : YP/AJ
Sample : PB164054BL
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB164054BL

Integration File: autoint1.e
Quant Time: Oct 14 03:25:08 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... | 12.943 | 4160735 | 36.758 ug/ml |
| Spiked Amount 50.000 | | Recovery = 73.52% | |
| Target Compounds | | | |

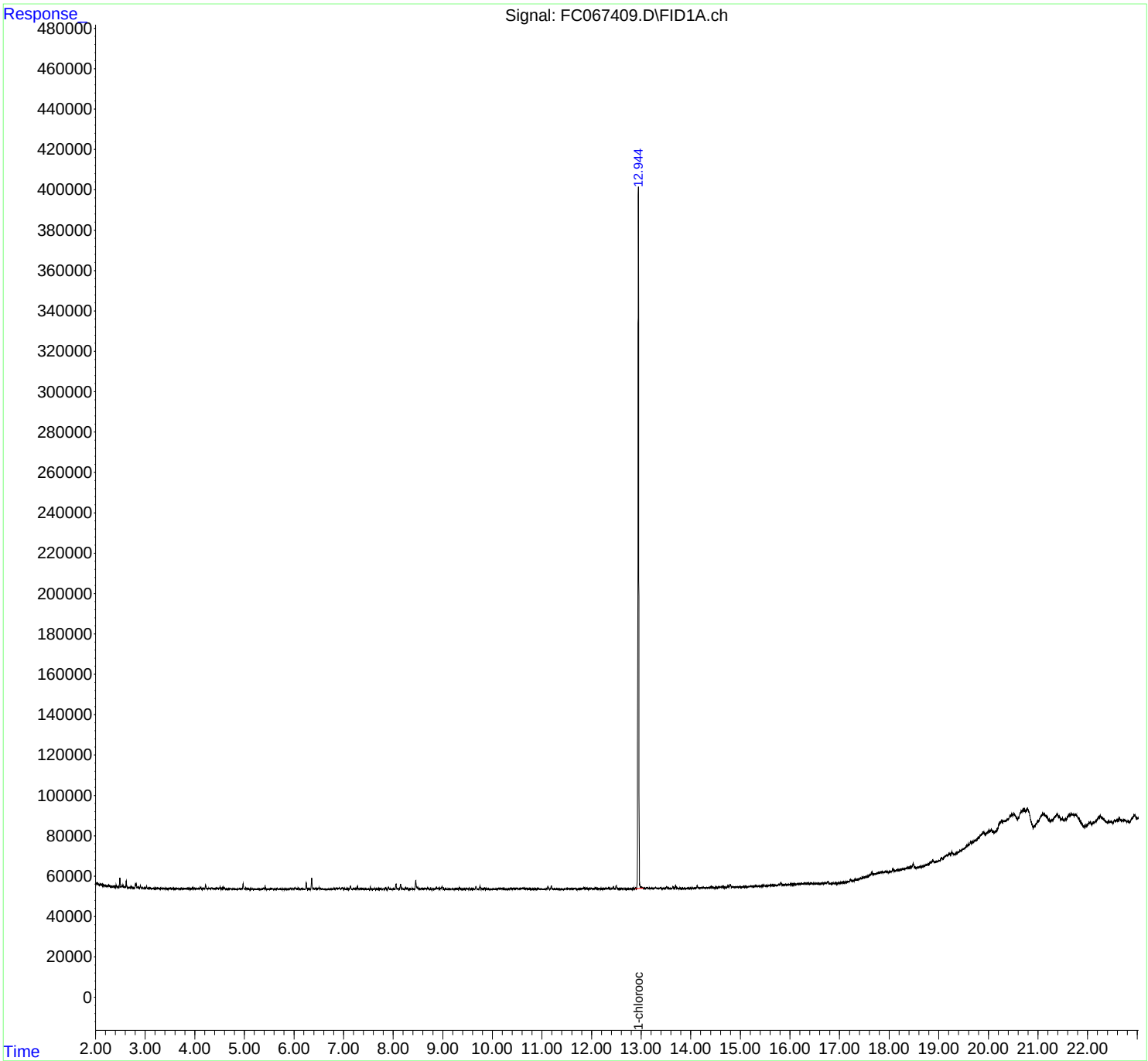
(f)=RT Delta > 1/2 Window (m)=manual int.

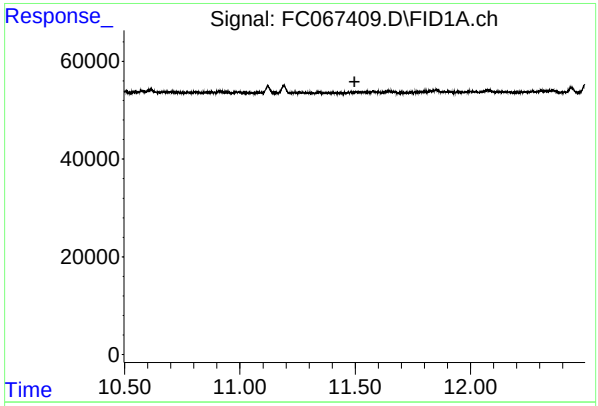
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067409.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 20:55
Operator : YP/AJ
Sample : PB164054BL
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB164054BL

Integration File: autoint1.e
Quant Time: Oct 14 03:25:08 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

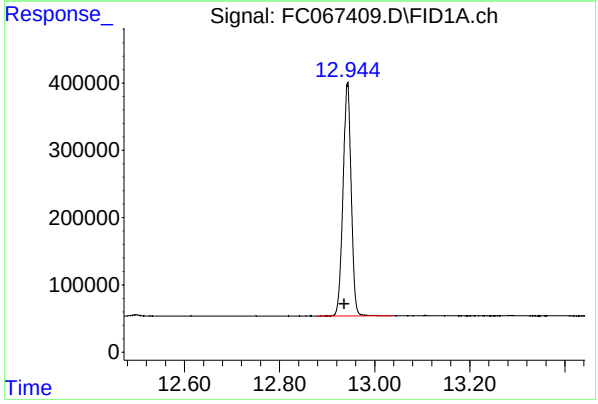





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.497 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PB164054BL




#12 1-chlorooctadecane (SURR)

R.T.: 12.943 min
Delta R.T.: 0.007 min
Response: 4160735
Conc: 36.76 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067409.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 20:55
Sample : PB164054BL
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 | 12.943 | 12.877 | 13.038 | BB | 346969 | 4160735 | 100.00% | 100.000% |
| | | | Sum of corrected areas: | | | 4160735 | | |

Aliphatic EPH 100224.M Mon Oct 14 04:42:07 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048461.D
Signal(s) : FID2B.ch
Acq On : 11 Oct 2024 21:31
Operator : YP/AJ
Sample : PB164054BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB164054BL

Integration File: autoint1.e
Quant Time: Oct 14 04:58:33 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 | 9429559 | 56.953 ug/ml |
| Spiked Amount 50.000 | | Recovery = 113.91% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.229 | 6231461 | 60.089 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 120.18% | |
| 11) S ortho-Terphenyl (SURR) | 11.265 | 8536307 | 46.394 ug/ml |
| Spiked Amount 50.000 | | Recovery = 92.79% | |
| **Target Compounds** | | | |

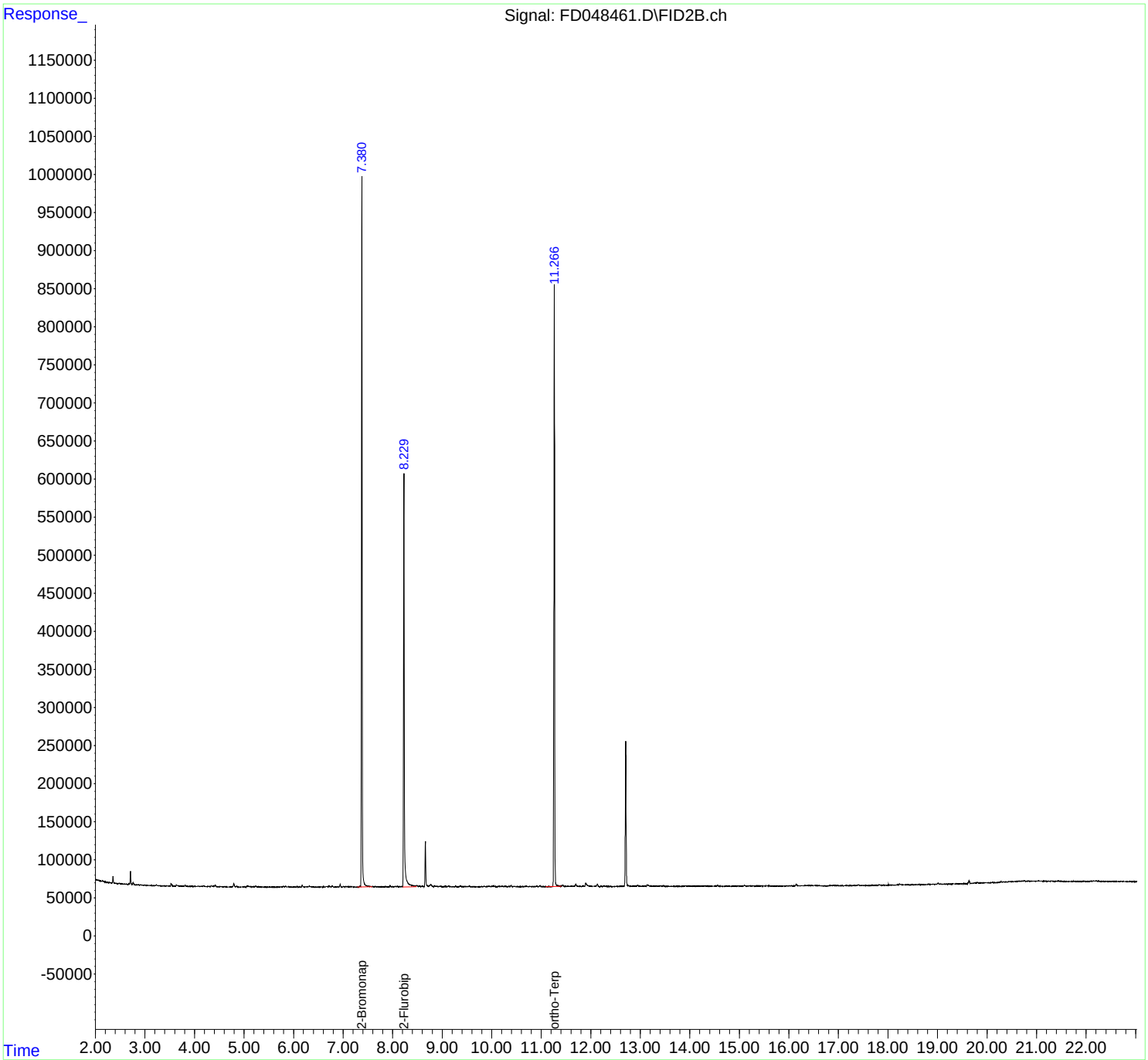
(f)=RT Delta > 1/2 Window (m)=manual int.

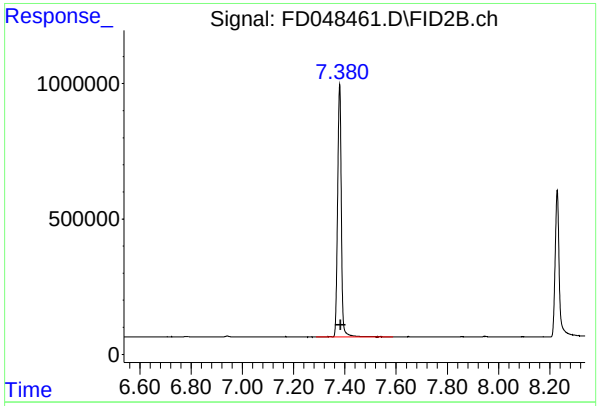
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048461.D
Signal(s) : FID2B.ch
Acq On : 11 Oct 2024 21:31
Operator : YP/AJ
Sample : PB164054BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB164054BL

Integration File: autoint1.e
Quant Time: Oct 14 04:58:33 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

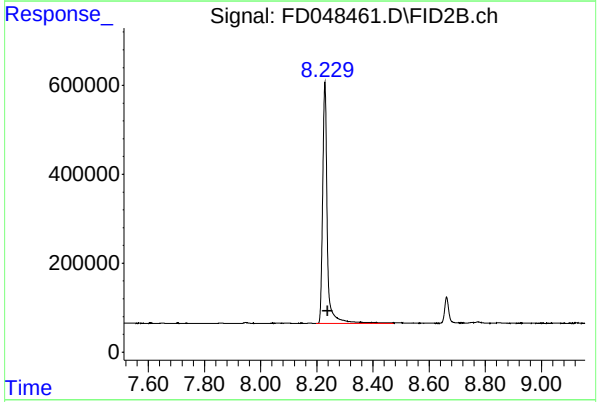





#4 2-Bromonaphthalene (SURR)

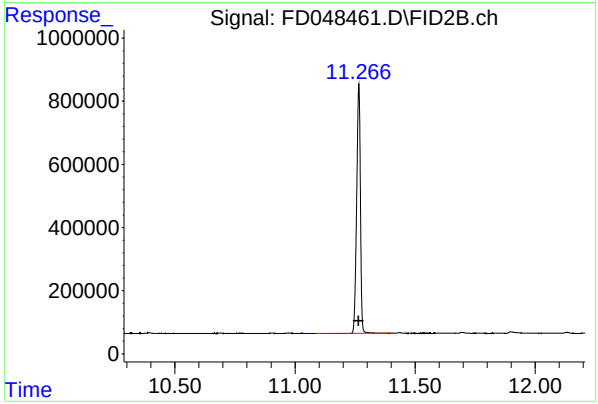
R.T.: 7.379 min
Delta R.T.: -0.005 min
Response: 9429559
Conc: 56.95 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PB164054BL




#6 2-Flurobiphenyl (SURR)

R.T.: 8.229 min
Delta R.T.: -0.010 min
Response: 6231461
Conc: 60.09 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.265 min
Delta R.T.: 0.000 min
Response: 8536307
Conc: 46.39 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048461.D
Signal(s) : FID2B.ch
Acq On : 11 Oct 2024 21:31
Sample : PB164054BL
Misc :
ALS Vial : 61 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 | 7.294 | 7.501 | BB | 945168 | 9339670 | 100.00% | 38.895% |
| 2 | 8.229 | 8.204 | 8.424 | BB | 539082 | 6127599 | 65.61% | 25.518% |
| 3 | 11.265 | 11.198 | 11.381 | BB | 784619 | 8545224 | 91.49% | 35.587% |
| | | | Sum of corrected areas: | | | 24012493 | | |

Aromatic EPH 093024.M Mon Oct 14 06:22:46 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067410.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 21:31
Operator : YP/AJ
Sample : PB164054BS
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB164054BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 03:25:17 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... | 12.943 | 4641045 | 41.001 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 82.00% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.277 | 2975519 | 23.474 ug/ml |
| 2) T | n-Decane (C10) | 4.343 | 3874396 | 30.141 ug/ml |
| 4) T | n-Dodecane (C12) | 6.360 | 4615717 | 35.571 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.153 | 4909470 | 38.118 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.752 | 5009065 | 37.629 ug/ml |
| 8) T | n-Octadecane (C18) | 11.192 | 5168448 | 38.115 ug/ml |
| 10) T | n-Eicosane (C20) | 12.501 | 5332746 | 40.842 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.112 | 5142551 | 40.096 ug/ml |
| 13) T | n-Docosane (C22) | 13.697 | 5136082 | 40.224 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.799 | 5076544 | 39.694 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.819 | 5007723 | 39.717 ug/ml |
| 16) T | n-Octacosane (C28) | 16.768 | 4959465 | 39.477 ug/ml |
| 17) T | n-Tricontane (C30) | 17.655 | 4996459 | 38.785 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.487 | 4921707 | 39.396 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.267 | 4459054 | 40.805 ug/mlm |
| 20) T | n-Hexatriacontane (C36) | 20.007 | 3825406 | 40.473 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.733 | 3268106 | 37.265 ug/mlm |
| 22) T | n-Tetracontane (C40) | 21.620 | 2932870 | 34.084 ug/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

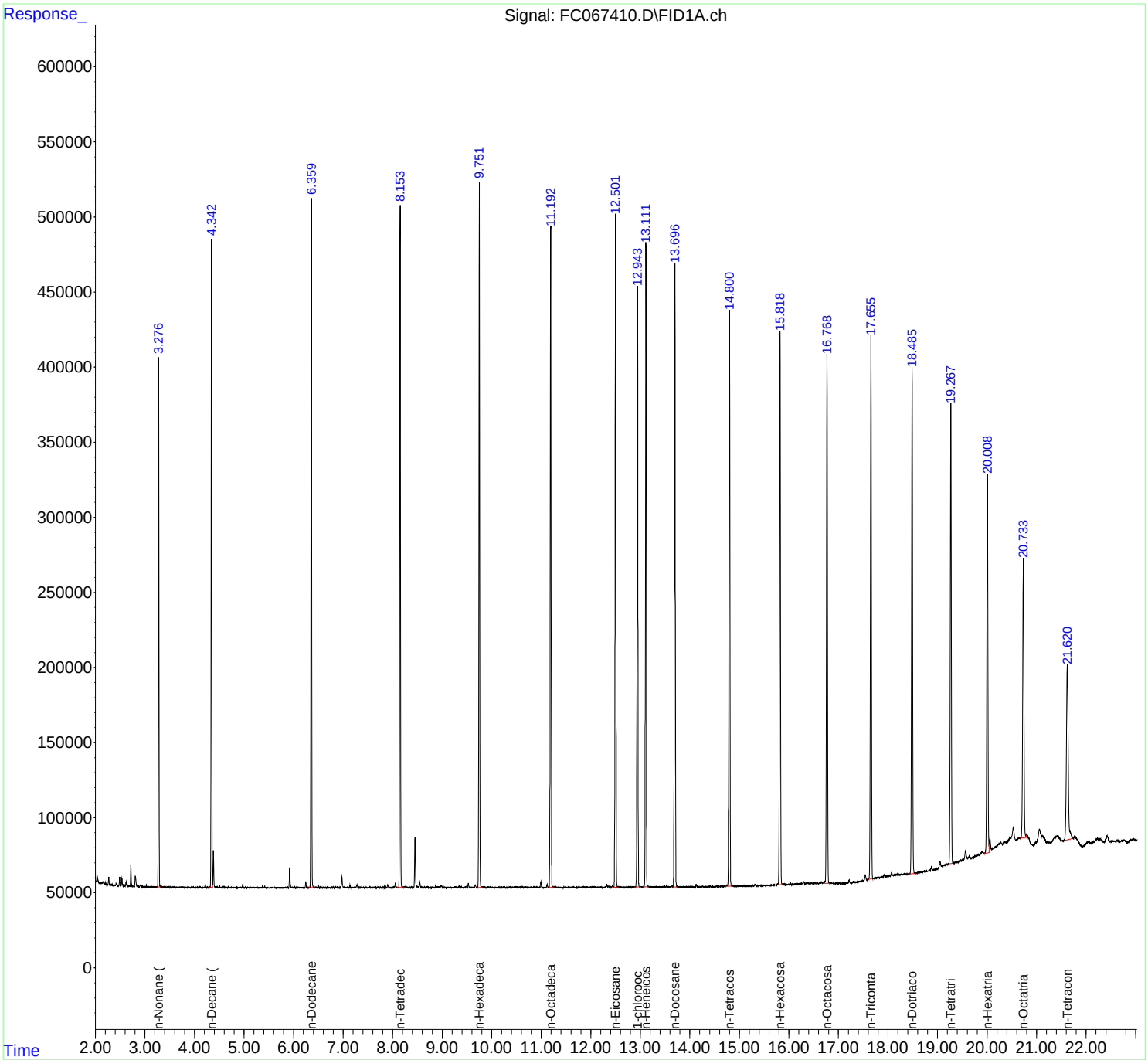
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067410.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 21:31
Operator : YP/AJ
Sample : PB164054BS
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB164054BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 03:25:17 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



14

**Instrument :**
FID_C
**ClientSampleId :**
PB164054BS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10112
Data File : FC067410.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 21:31
Sample : PB164054BS
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 | 3.277 | 3.245 | 3.332 | BB | 352951 | 2975519 | 55.80% | 3.453% |
| 2 | 4.343 | 4.285 | 4.367 | BV | 432790 | 3874396 | 72.65% | 4.497% |
| 3 | 6.360 | 6.294 | 6.424 | BB | 458870 | 4615717 | 86.55% | 5.357% |
| 4 | 8.153 | 8.087 | 8.230 | BB | 456613 | 4909470 | 92.06% | 5.698% |
| 5 | 9.752 | 9.714 | 9.810 | BB | 470395 | 5009065 | 93.93% | 5.813% |
| 6 | 11.192 | 11.154 | 11.252 | BB | 439634 | 5168448 | 96.92% | 5.998% |
| 7 | 12.501 | 12.457 | 12.559 | PB | 443099 | 5332746 | 100.00% | 6.189% |
| 8 | 12.943 | 12.880 | 12.992 | BB | 397920 | 4641045 | 87.03% | 5.386% |
| 9 | 13.112 | 13.045 | 13.169 | BB | 427885 | 5142551 | 96.43% | 5.968% |
| 10 | 13.697 | 13.659 | 13.759 | VB | 416380 | 5136082 | 96.31% | 5.961% |
| 11 | 14.799 | 14.705 | 14.859 | BB | 379054 | 5076544 | 95.20% | 5.892% |
| 12 | 15.819 | 15.730 | 15.887 | BB | 367996 | 5007723 | 93.91% | 5.812% |
| 13 | 16.768 | 16.684 | 16.829 | BB | 347615 | 4959465 | 93.00% | 5.756% |
| 14 | 17.655 | 17.587 | 17.694 | BB | 361768 | 4996459 | 93.69% | 5.799% |
| 15 | 18.487 | 18.404 | 18.560 | BB | 333173 | 4921707 | 92.29% | 5.712% |
| 16 | 19.267 | 19.220 | 19.309 | M | 306520 | 4454784 | 83.54% | 5.170% |
| 17 | 20.007 | 19.959 | 20.040 | BV | 250982 | 3825406 | 71.73% | 4.440% |
| 18 | 20.733 | 20.684 | 20.775 | M | 185260 | 3205167 | 60.10% | 3.720% |
| 19 | 21.620 | 21.561 | 21.740 | M | 116467 | 2912019 | 54.61% | 3.380% |
| | | | Sum of corrected areas: | | | 86164313 | | |

Aliphatic EPH 100224.M Mon Oct 14 04:43:04 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048462.D
Signal(s) : FID2B.ch
Acq On : 11 Oct 2024 22:07
Operator : YP/AJ
Sample : PB164054BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB164054BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 04:58:41 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 | 8532621 | 51.535 ug/ml |
| | Spiked Amount 50.000 | | Recovery = 103.07% | |
| 6) | S 2-Flurobiphenyl (SURR) | 8.229 | 5202838 | 50.170 ug/ml |
| | Spiked Amount 50.000 Range 0 - 131 | | Recovery = 100.34% | |
| 11) | S ortho-Terphenyl (SURR) | 11.265 | 7598488 | 41.297 ug/ml |
| | Spiked Amount 50.000 | | Recovery = 82.59% | |
| | **Target Compounds** | | | |
| 1) | T 1,2,3-Trimethylbenzen... | 4.201 | 5863751 | 33.458 ug/ml |
| 2) | T Naphthalene (C11.7) | 5.718 | 6928553 | 37.108 ug/ml |
| 3) | T 2-Methylnaphthalene (... | 6.765 | 6826282 | 36.120 ug/ml |
| 5) | T Acenaphthylene (C15.06) | 8.032 | 7268070 | 37.886 ug/ml |
| 7) | T Acenaphthene (C15.5) | 8.327 | 7597338 | 40.164 ug/ml |
| 8) | T Flouorene (C16.55) | 9.105 | 7570606 | 41.902 ug/ml |
| 9) | T Phenanthrene (C19.36) | 10.493 | 7439510 | 41.977 ug/ml |
| 10) | T Anthracene (C19.43) | 10.569 | 7558949 | 42.480 ug/ml |
| 12) | T Fluoranthene (C21.85) | 12.298 | 7475359 | 41.329 ug/mlm |
| 13) | T Pyrene (C20.8) | 12.591 | 7898948 | 44.111 ug/ml |
| 14) | T Benzo[a]anthracene (C... | 14.460 | 7047085 | 44.095 ug/ml |
| 15) | T Chrysene (C27.41) | 14.502 | 7079733 | 37.956 ug/ml |
| 16) | T benzo[b]fluoranthene ... | 16.008 | 6953481 | 41.752 ug/ml |
| 17) | T Bnezo[k]fluoranthene ... | 16.041 | 6930603 | 40.829 ug/ml |
| 18) | T Benzo[a]pyrene (C31.34) | 16.383 | 6656518 | 40.727 ug/ml |
| 19) | T Indeno[1,2,3-cd]pyren... | 17.750 | 6723336 | 51.112 ug/ml |
| 20) | T Dibenz[a,h]anthracene... | 17.786 | 6590993 | 39.388 ug/ml |
| 21) | T Benzo[g,h,i]perylene ... | 18.001 | 6333047 | 38.991 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

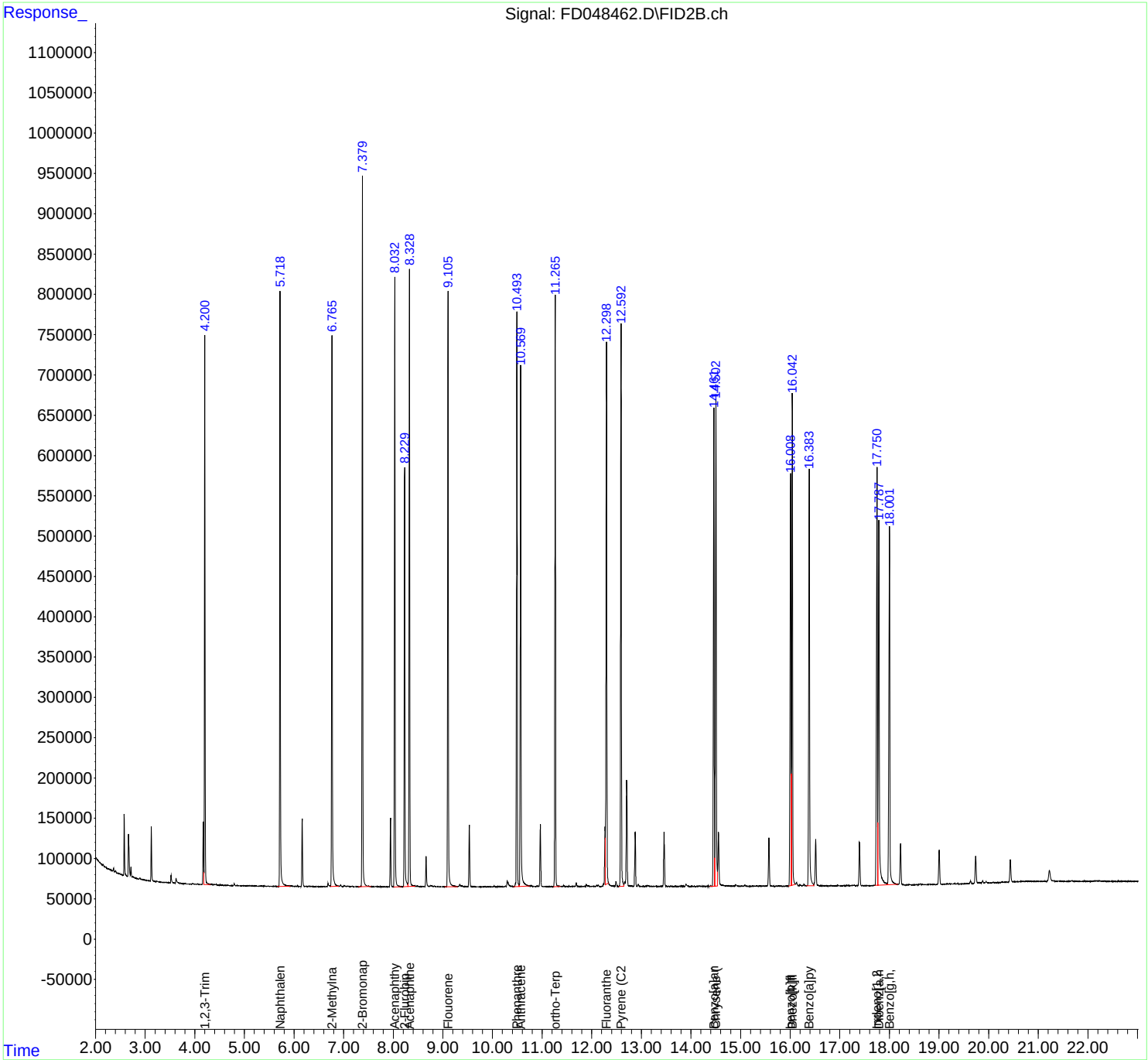
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048462.D
Signal(s) : FID2B.ch
Acq On : 11 Oct 2024 22:07
Operator : YP/AJ
Sample : PB164054BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 14 04:58:41 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 :**
PB164054BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



**Instrument :**
FID_D
**ClientSampleId :**
PB164054BS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10112
Data File : FD048462.D
Signal(s) : FID2B.ch
Acq On : 11 Oct 2024 22:07
Sample : PB164054BS
Misc :
ALS Vial : 62 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 | 4.201 | 4.183 | 4.304 | VB | 679715 | 5858944 | 68.98% | 3.939% |
| 2 | 5.718 | 5.644 | 5.888 | BB | 732812 | 6876696 | 80.97% | 4.623% |
| 3 | 6.765 | 6.734 | 6.911 | VB | 679675 | 6820143 | 80.30% | 4.585% |
| 4 | 7.379 | 7.291 | 7.504 | BB | 887102 | 8493178 | 100.00% | 5.710% |
| 5 | 8.032 | 8.004 | 8.158 | PB | 745739 | 7253760 | 85.41% | 4.876% |
| 6 | 8.229 | 8.158 | 8.296 | BV | 524800 | 5180969 | 61.00% | 3.483% |
| 7 | 8.327 | 8.296 | 8.431 | VB | 769328 | 7575857 | 89.20% | 5.093% |
| 8 | 9.105 | 9.028 | 9.251 | BB | 731999 | 7538861 | 88.76% | 5.068% |
| 9 | 10.493 | 10.418 | 10.537 | BV | 719068 | 7439741 | 87.60% | 5.002% |
| 10 | 10.569 | 10.537 | 10.751 | VB | 643166 | 7559178 | 89.00% | 5.082% |
| 11 | 11.265 | 11.181 | 11.364 | BB | 724321 | 7586035 | 89.32% | 5.100% |
| 12 | 12.298 | 12.161 | 12.431 | BB | 673316 | 8375120 | 98.61% | 5.630% |
| 13 | 12.591 | 12.538 | 12.647 | BV | 693989 | 7896586 | 92.98% | 5.309% |
| 14 | 14.460 | 14.381 | 14.479 | BV | 593965 | 7040684 | 82.90% | 4.733% |
| 15 | 14.502 | 14.479 | 14.532 | VV | 591587 | 7073305 | 83.28% | 4.755% |
| 16 | 16.008 | 15.971 | 16.023 | BV | 513917 | 6953481 | 81.87% | 4.675% |
| 17 | 16.041 | 16.023 | 16.107 | VV | 602682 | 6930603 | 81.60% | 4.659% |
| 18 | 16.383 | 16.324 | 16.471 | BV | 509542 | 6649567 | 78.29% | 4.470% |
| 19 | 17.750 | 17.701 | 17.765 | BV | 524854 | 6723336 | 79.16% | 4.520% |
| 20 | 17.786 | 17.765 | 17.961 | VV | 455252 | 6590993 | 77.60% | 4.431% |
| 21 | 18.001 | 17.961 | 18.178 | VB | 443037 | 6333047 | 74.57% | 4.258% |

Sum of corrected areas: 148750083

Aromatic EPH 093024.M Mon Oct 14 06:23:20 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067411.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 22:07
Operator : YP/AJ
Sample : PB164054BSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB164054BSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 03:25:28 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... | 12.944 | 4391796 | 38.799 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 77.60% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.276 | 2973066 | 23.454 ug/ml |
| 2) T | n-Decane (C10) | 4.342 | 3889911 | 30.262 ug/ml |
| 4) T | n-Dodecane (C12) | 6.360 | 4651378 | 35.845 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.153 | 4944243 | 38.388 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.752 | 5038099 | 37.847 ug/ml |
| 8) T | n-Octadecane (C18) | 11.192 | 5183054 | 38.223 ug/ml |
| 10) T | n-Eicosane (C20) | 12.501 | 5336780 | 40.873 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.112 | 5146298 | 40.125 ug/ml |
| 13) T | n-Docosane (C22) | 13.697 | 5129946 | 40.176 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.799 | 5076550 | 39.694 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.819 | 5013846 | 39.765 ug/ml |
| 16) T | n-Octacosane (C28) | 16.768 | 4983828 | 39.671 ug/ml |
| 17) T | n-Tricontane (C30) | 17.654 | 5024232 | 39.001 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.486 | 4911329 | 39.313 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.266 | 4506135 | 41.236 ug/mlm |
| 20) T | n-Hexatriacontane (C36) | 20.005 | 3794924 | 40.150 ug/mlm |
| 21) T | n-Octatriacontane (C38) | 20.732 | 3287683 | 37.488 ug/mlm |
| 22) T | n-Tetracontane (C40) | 21.622 | 2949828 | 34.281 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

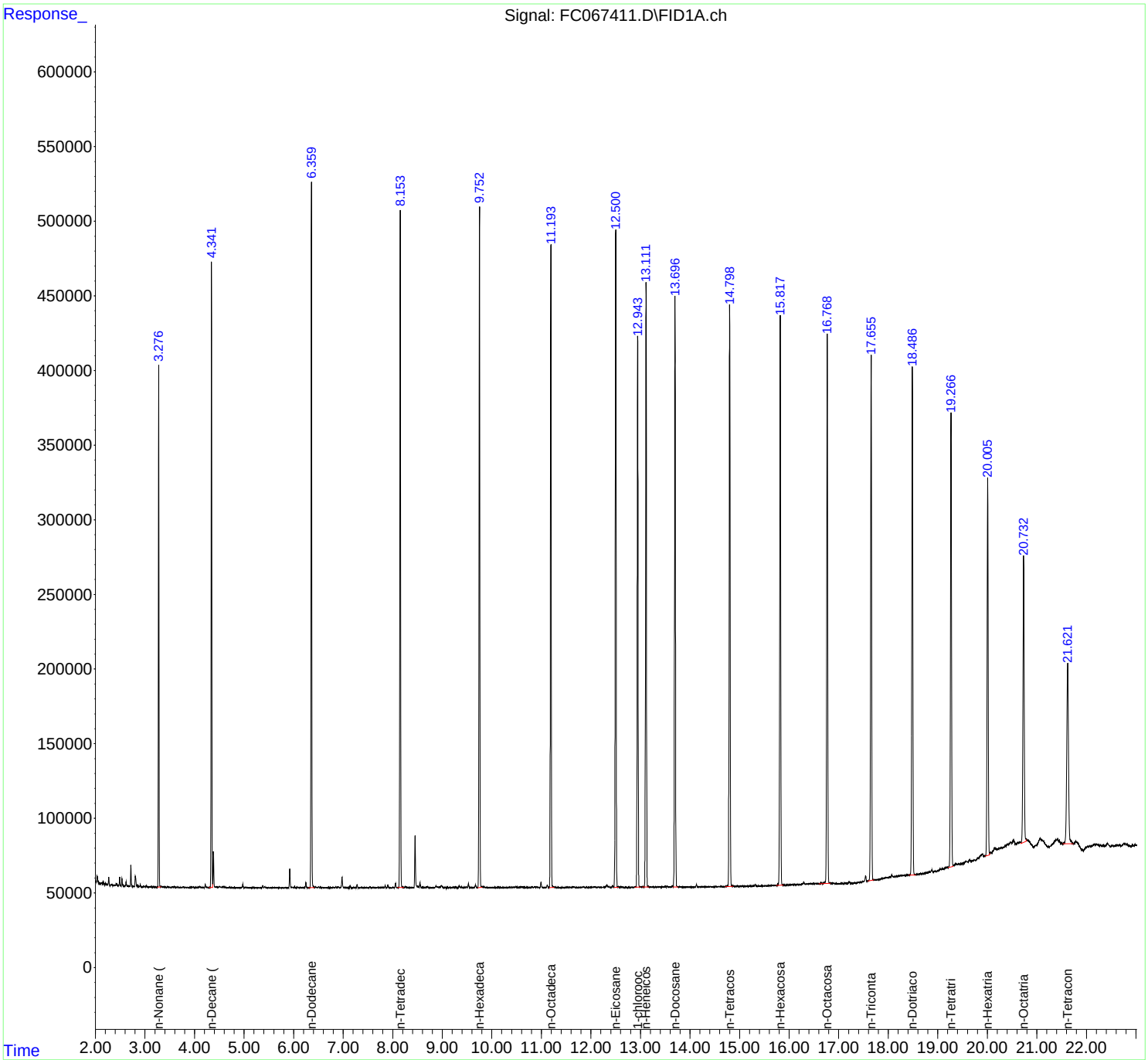
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067411.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 22:07
Operator : YP/AJ
Sample : PB164054BSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 14 03:25:28 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

**Instrument :**
FID_C
**ClientSampleId :**
PB164054BSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



14

**Instrument :**
FID_C
**ClientSampleId :**
PB164054BSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10112
Data File : FC067411.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 22:07
Sample : PB164054BSD
Misc :
ALS Vial : 20 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 | 3.328 | BB | 349521 | 2973066 | 55.71% | 3.450% |
| 2 | 4.342 | 4.285 | 4.366 | BV | 420386 | 3889911 | 72.89% | 4.514% |
| 3 | 6.360 | 6.293 | 6.420 | BB | 472429 | 4651378 | 87.16% | 5.398% |
| 4 | 8.153 | 8.090 | 8.222 | BB | 455558 | 4944243 | 92.64% | 5.737% |
| 5 | 9.752 | 9.713 | 9.807 | BB | 455639 | 5038099 | 94.40% | 5.846% |
| 6 | 11.192 | 11.153 | 11.260 | BB | 431020 | 5183054 | 97.12% | 6.015% |
| 7 | 12.501 | 12.462 | 12.558 | PB | 437914 | 5336780 | 100.00% | 6.193% |
| 8 | 12.944 | 12.880 | 13.002 | BB | 368911 | 4391796 | 82.29% | 5.096% |
| 9 | 13.112 | 13.043 | 13.173 | BB | 405193 | 5146298 | 96.43% | 5.972% |
| 10 | 13.697 | 13.660 | 13.762 | VB | 393528 | 5129946 | 96.12% | 5.953% |
| 11 | 14.799 | 14.708 | 14.870 | BB | 389944 | 5076550 | 95.12% | 5.891% |
| 12 | 15.819 | 15.735 | 15.887 | BB | 376315 | 5013846 | 93.95% | 5.818% |
| 13 | 16.768 | 16.597 | 16.838 | BB | 367579 | 4983828 | 93.39% | 5.783% |
| 14 | 17.654 | 17.588 | 17.718 | BB | 351220 | 5024232 | 94.14% | 5.830% |
| 15 | 18.486 | 18.415 | 18.557 | BB | 338726 | 4911329 | 92.03% | 5.699% |
| 16 | 19.266 | 19.217 | 19.309 | M | 304136 | 4496904 | 84.26% | 5.218% |
| 17 | 20.005 | 19.958 | 20.033 | M | 252209 | 3745599 | 70.18% | 4.347% |
| 18 | 20.732 | 20.672 | 20.793 | M | 192144 | 3287752 | 61.61% | 3.815% |
| 19 | 21.622 | 21.520 | 21.738 | BV | 121379 | 2949828 | 55.27% | 3.423% |
| | | | Sum of corrected areas: | | | 86174438 | | |

Aliphatic EPH 100224.M Mon Oct 14 04:43:45 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048463.D
Signal(s) : FID2B.ch
Acq On : 11 Oct 2024 22:44
Operator : YP/AJ
Sample : PB164054BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB164054BSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 04:58:51 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 | 8378840 | 50.607 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 101.21% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.229 | 5106679 | 49.243 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 98.49% |
| 11) S | ortho-Terphenyl (SURR) | 11.265 | 7452371 | 40.503 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 81.01% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.201 | 5739792 | 32.751 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.719 | 6729568 | 36.042 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.766 | 6680058 | 35.346 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.032 | 7121798 | 37.123 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.327 | 7439665 | 39.331 ug/ml |
| 8) T | Flouorene (C16.55) | 9.105 | 7374005 | 40.814 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.493 | 7289928 | 41.133 ug/ml |
| 10) T | Anthracene (C19.43) | 10.568 | 7434995 | 41.783 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.297 | 7358324 | 40.682 ug/mlm |
| 13) T | Pyrene (C20.8) | 12.591 | 7766872 | 43.374 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.460 | 6949322 | 43.484 ug/ml |
| 15) T | Chrysene (C27.41) | 14.503 | 6981824 | 37.431 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.008 | 6830078 | 41.011 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.041 | 6865334 | 40.444 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.383 | 6559635 | 40.134 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.749 | 6594316 | 50.132 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.786 | 6514510 | 38.931 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.000 | 6240587 | 38.421 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

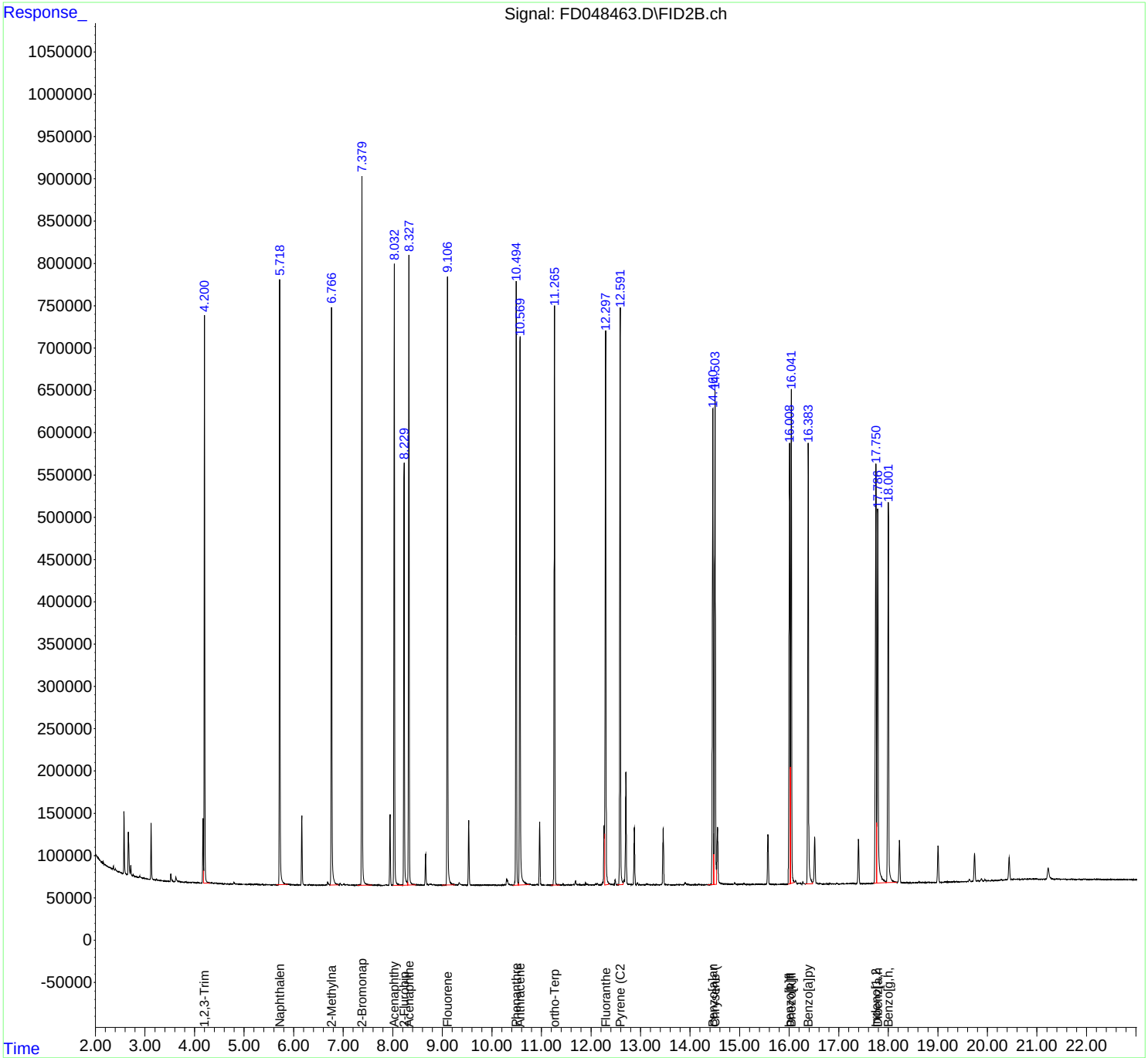
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048463.D
Signal(s) : FID2B.ch
Acq On : 11 Oct 2024 22:44
Operator : YP/AJ
Sample : PB164054BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 14 04:58:51 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 :**
PB164054BSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



**Instrument :**
FID_D
**ClientSampleId :**
PB164054BSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10112
Data File : FD048463.D
Signal(s) : FID2B.ch
Acq On : 11 Oct 2024 22:44
Sample : PB164054BSD
Misc :
ALS Vial : 63 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 | 4.201 | 4.183 | 4.304 | VB | 666870 | 5739395 | 68.87% | 3.930% |
| 2 | 5.719 | 5.658 | 5.861 | BB | 712615 | 6707135 | 80.48% | 4.593% |
| 3 | 6.766 | 6.734 | 6.904 | VB | 674772 | 6674861 | 80.09% | 4.570% |
| 4 | 7.379 | 7.288 | 7.518 | BB | 826351 | 8334194 | 100.00% | 5.707% |
| 5 | 8.032 | 8.001 | 8.154 | PB | 725857 | 7095685 | 85.14% | 4.859% |
| 6 | 8.229 | 8.161 | 8.301 | BV | 504144 | 5080360 | 60.96% | 3.479% |
| 7 | 8.327 | 8.301 | 8.444 | VB | 747594 | 7416672 | 88.99% | 5.078% |
| 8 | 9.105 | 9.028 | 9.254 | BB | 709541 | 7381634 | 88.57% | 5.054% |
| 9 | 10.493 | 10.384 | 10.536 | BV | 721869 | 7263214 | 87.15% | 4.973% |
| 10 | 10.568 | 10.536 | 10.751 | VV | 646530 | 7417721 | 89.00% | 5.079% |
| 11 | 11.265 | 11.181 | 11.348 | BB | 685037 | 7439269 | 89.26% | 5.094% |
| 12 | 12.297 | 12.168 | 12.428 | BB | 659853 | 8214675 | 98.57% | 5.625% |
| 13 | 12.591 | 12.534 | 12.648 | BV | 684410 | 7764099 | 93.16% | 5.316% |
| 14 | 14.460 | 14.384 | 14.479 | BV | 565005 | 6940606 | 83.28% | 4.752% |
| 15 | 14.503 | 14.479 | 14.532 | VV | 595255 | 6976913 | 83.71% | 4.777% |
| 16 | 16.008 | 15.971 | 16.022 | BV | 519913 | 6830078 | 81.95% | 4.677% |
| 17 | 16.041 | 16.022 | 16.107 | VV | 582855 | 6865334 | 82.38% | 4.701% |
| 18 | 16.383 | 16.308 | 16.472 | BV | 528164 | 6552911 | 78.63% | 4.487% |
| 19 | 17.749 | 17.701 | 17.765 | BV | 483467 | 6594316 | 79.12% | 4.515% |
| 20 | 17.786 | 17.765 | 17.958 | VV | 449446 | 6514768 | 78.17% | 4.461% |
| 21 | 18.000 | 17.958 | 18.178 | VB | 454885 | 6240329 | 74.88% | 4.273% |

Sum of corrected areas: 146044168

Aromatic EPH 093024.M Mon Oct 14 06:23:57 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067417.D
Signal(s) : FID1A.ch
Acq On : 12 Oct 2024 01:50
Operator : YP/AJ
Sample : P4258-03MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
Chamberlain AveMS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 03:26:29 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... | 12.942 | 2825735 | 24.964 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 49.93% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.276 | 3119774 | 24.612 ug/ml |
| 2) T | n-Decane (C10) | 4.342 | 3814667 | 29.676 ug/ml |
| 4) T | n-Dodecane (C12) | 6.359 | 4281840 | 32.998 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.153 | 4550664 | 35.332 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.752 | 4788294 | 35.970 ug/ml |
| 8) T | n-Octadecane (C18) | 11.192 | 5001743 | 36.885 ug/ml |
| 10) T | n-Eicosane (C20) | 12.500 | 5089832 | 38.982 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.112 | 4907863 | 38.266 ug/ml |
| 13) T | n-Docosane (C22) | 13.697 | 4895767 | 38.342 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.799 | 4852829 | 37.945 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.818 | 4810559 | 38.153 ug/ml |
| 16) T | n-Octacosane (C28) | 16.768 | 4785460 | 38.092 ug/ml |
| 17) T | n-Tricontane (C30) | 17.653 | 4856449 | 37.698 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.485 | 4822889 | 38.605 ug/mlm |
| 19) T | n-Tetratriacontane (C34) | 19.267 | 4790118 | 43.834 ug/mlm |
| 20) T | n-Hexatriacontane (C36) | 20.008 | 4660090 | 49.304 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.733 | 4480511 | 51.089 ug/mlm |
| 22) T | n-Tetracontane (C40) | 21.623 | 4338434 | 50.419 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

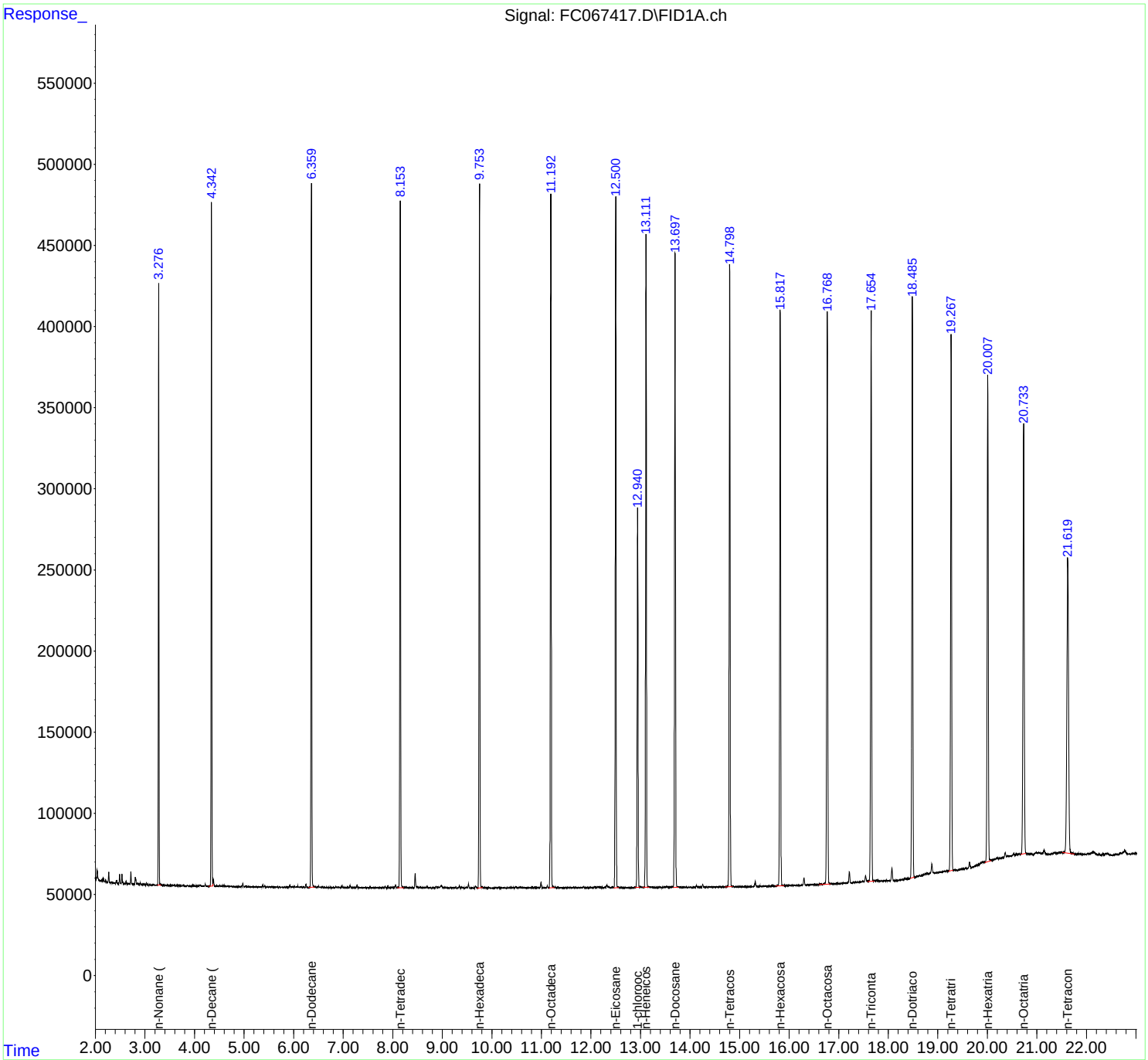
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067417.D
Signal(s) : FID1A.ch
Acq On : 12 Oct 2024 01:50
Operator : YP/AJ
Sample : P4258-03MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
Chamberlain AveMS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 03:26:29 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



14

**Instrument :**
FID_C
**ClientSampleId :**
Chamberlain AveMS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10112
Data File : FC067417.D
Signal(s) : FID1A.ch
Acq On : 12 Oct 2024 01:50
Sample : P4258-03MS
Misc :
ALS Vial : 26 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 | 371030 | 3119774 | 61.29% | 3.604% |
| 2 | 4.342 | 4.282 | 4.370 | BV | 420712 | 3814667 | 74.95% | 4.407% |
| 3 | 4.382 | 4.370 | 4.422 | VB | 4233 | 42768 | 0.84% | 0.049% |
| 4 | 6.359 | 6.294 | 6.427 | BB | 430947 | 4281840 | 84.13% | 4.947% |
| 5 | 8.153 | 8.089 | 8.229 | BB | 422478 | 4550664 | 89.41% | 5.257% |
| 6 | 8.454 | 8.400 | 8.520 | BB | 8671 | 103519 | 2.03% | 0.120% |
| 7 | 9.752 | 9.709 | 9.817 | BB | 433770 | 4788294 | 94.08% | 5.532% |
| 8 | 10.993 | 10.937 | 11.034 | BB | 3582 | 43856 | 0.86% | 0.051% |
| 9 | 11.192 | 11.152 | 11.264 | BB | 427535 | 5001743 | 98.27% | 5.778% |
| 10 | 12.500 | 12.464 | 12.562 | PB | 425791 | 5089832 | 100.00% | 5.880% |
| 11 | 12.942 | 12.884 | 12.984 | BB | 232595 | 2825735 | 55.52% | 3.265% |
| 12 | 13.112 | 13.040 | 13.175 | BB | 401982 | 4907863 | 96.42% | 5.670% |
| 13 | 13.697 | 13.660 | 13.765 | PB | 390438 | 4895767 | 96.19% | 5.656% |
| 14 | 14.799 | 14.705 | 14.860 | BB | 381500 | 4852829 | 95.34% | 5.606% |
| 15 | 15.818 | 15.725 | 15.894 | BB | 353231 | 4810559 | 94.51% | 5.558% |
| 16 | 16.297 | 16.244 | 16.330 | BB | 4619 | 61008 | 1.20% | 0.070% |
| 17 | 16.768 | 16.597 | 16.839 | BB | 354086 | 4785460 | 94.02% | 5.529% |
| 18 | 17.214 | 17.157 | 17.255 | BB | 6910 | 97452 | 1.91% | 0.113% |
| 19 | 17.541 | 17.487 | 17.574 | BB | 3604 | 48975 | 0.96% | 0.057% |
| 20 | 17.653 | 17.587 | 17.720 | BB | 350903 | 4856449 | 95.41% | 5.611% |
| 21 | 18.073 | 18.014 | 18.105 | BB | 7734 | 111520 | 2.19% | 0.129% |
| 22 | 18.485 | 18.295 | 18.534 | BB | 359733 | 4816673 | 94.63% | 5.565% |
| 23 | 18.879 | 18.594 | 18.927 | BB | 5989 | 147780 | 2.90% | 0.171% |
| 24 | 19.268 | 19.089 | 19.325 | BB | 326863 | 4808840 | 94.48% | 5.556% |
| 25 | 19.640 | 19.387 | 19.669 | BB | 3492 | 51196 | 1.01% | 0.059% |
| 26 | 19.909 | 19.699 | 19.939 | BB | 1052 | 35859 | 0.70% | 0.041% |
| 27 | 20.008 | 19.955 | 20.082 | BB | 297878 | 4660090 | 91.56% | 5.384% |
| 28 | 20.359 | 20.104 | 20.385 | BB | 2633 | 68456 | 1.34% | 0.079% |
| 29 | 20.732 | 20.554 | 20.802 | VB | 264044 | 4540706 | 89.21% | 5.246% |
| 30 | 21.623 | 21.510 | 21.760 | BB | 179663 | 4338434 | 85.24% | 5.012% |

Sum of corrected areas: 86558607

Aliphatic EPH 100224.M Mon Oct 14 04:49:19 2024

Page 1

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048469.D
Signal(s) : FID2B.ch
Acq On : 12 Oct 2024 02:27
Operator : YP/AJ
Sample : P4258-03MS
Misc :
ALS Vial : 69 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
Chamberlain AveMS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 04:59:47 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... | 7.380 | 9165846 | 55.360 ug/ml |
| | Spiked Amount 50.000 | | Recovery = 110.72% | |
| 6) | S 2-Flurobiphenyl (SURR) | 8.230 | 6055741 | 58.394 ug/ml |
| | Spiked Amount 50.000 Range 0 - 131 | | Recovery = 116.79% | |
| 11) | S ortho-Terphenyl (SURR) | 11.264 | 6078564 | 33.036 ug/ml |
| | Spiked Amount 50.000 | | Recovery = 66.07% | |
| | **Target Compounds** | | | |
| 1) | T 1,2,3-Trimethylbenzen... | 4.201 | 6804296 | 38.825 ug/ml |
| 2) | T Naphthalene (C11.7) | 5.718 | 7636087 | 40.897 ug/ml |
| 3) | T 2-Methylnaphthalene (... | 6.766 | 7461129 | 39.479 ug/ml |
| 5) | T Acenaphthylene (C15.06) | 8.033 | 8007428 | 41.740 ug/ml |
| 7) | T Acenaphthene (C15.5) | 8.328 | 8415054 | 44.487 ug/ml |
| 8) | T Flouorene (C16.55) | 9.106 | 8517431 | 47.143 ug/ml |
| 9) | T Phenanthrene (C19.36) | 10.494 | 8621800 | 48.647 ug/ml |
| 10) | T Anthracene (C19.43) | 10.570 | 8690793 | 48.841 ug/ml |
| 12) | T Fluoranthene (C21.85) | 12.299 | 8849333 | 48.926 ug/mlm |
| 13) | T Pyrene (C20.8) | 12.593 | 9176010 | 51.243 ug/ml |
| 14) | T Benzo[a]anthracene (C... | 14.461 | 8197557 | 51.294 ug/ml |
| 15) | T Chrysene (C27.41) | 14.506 | 8265398 | 44.312 ug/ml |
| 16) | T benzo[b]fluoranthene ... | 16.011 | 8075583 | 48.490 ug/ml |
| 17) | T Bnezo[k]fluoranthene ... | 16.045 | 7987793 | 47.057 ug/ml |
| 18) | T Benzo[a]pyrene (C31.34) | 16.386 | 7704771 | 47.140 ug/ml |
| 19) | T Indeno[1,2,3-cd]pyren... | 17.754 | 8259381 | 62.790 ug/ml |
| 20) | T Dibenz[a,h]anthracene... | 17.791 | 7749069 | 46.309 ug/ml |
| 21) | T Benzo[g,h,i]perylene ... | 18.006 | 7388593 | 45.489 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

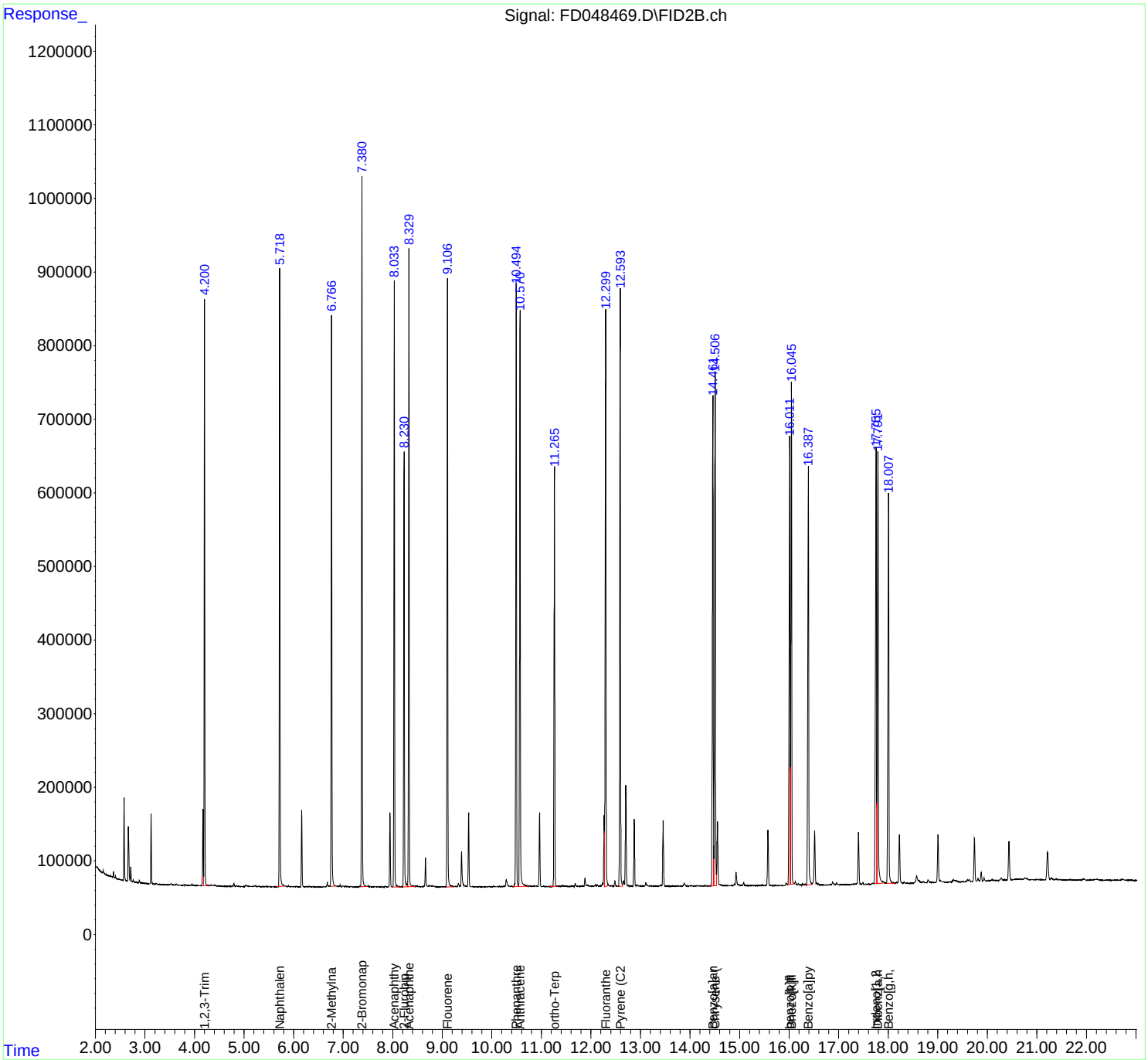
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048469.D
Signal(s) : FID2B.ch
Acq On : 12 Oct 2024 02:27
Operator : YP/AJ
Sample : P4258-03MS
Misc :
ALS Vial : 69 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
Chamberlain AveMS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 04:59:47 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 :**
Chamberlain AveMS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10112
Data File : FD048469.D
Signal(s) : FID2B.ch
Acq On : 12 Oct 2024 02:27
Sample : P4258-03MS
Misc :
ALS Vial : 69 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 | 4.170 | 4.108 | 4.183 | BV | 103271 | 898789 | 9.13% | 0.492% |
| 2 | 4.201 | 4.183 | 4.298 | VB | 796043 | 6801152 | 69.09% | 3.723% |
| 3 | 5.719 | 5.644 | 5.816 | BV | 833664 | 7633400 | 77.55% | 4.178% |
| 4 | 6.164 | 6.094 | 6.228 | BB | 104114 | 1012676 | 10.29% | 0.554% |
| 5 | 6.766 | 6.734 | 6.901 | VV | 764105 | 7521085 | 76.40% | 4.117% |
| 6 | 7.380 | 7.350 | 7.484 | VV | 971298 | 9168688 | 93.14% | 5.019% |
| 7 | 7.946 | 7.878 | 7.994 | BV | 100891 | 1043520 | 10.60% | 0.571% |
| 8 | 8.033 | 7.994 | 8.154 | PB | 812459 | 8006061 | 81.33% | 4.382% |
| 9 | 8.230 | 8.194 | 8.301 | BV | 598449 | 6048558 | 61.45% | 3.311% |
| 10 | 8.328 | 8.301 | 8.418 | VB | 856218 | 8388005 | 85.21% | 4.591% |
| 11 | 8.662 | 8.478 | 8.718 | BV | 38357 | 334909 | 3.40% | 0.183% |
| 12 | 9.106 | 9.061 | 9.231 | BB | 818482 | 8479551 | 86.14% | 4.641% |
| 13 | 9.390 | 9.351 | 9.501 | VV | 47061 | 623848 | 6.34% | 0.341% |
| 14 | 9.533 | 9.501 | 9.568 | VB | 100351 | 1069742 | 10.87% | 0.586% |
| 15 | 10.292 | 10.161 | 10.368 | BV | 9281 | 181790 | 1.85% | 0.100% |
| 16 | 10.494 | 10.424 | 10.537 | BV | 820830 | 8620790 | 87.58% | 4.719% |
| 17 | 10.570 | 10.537 | 10.748 | VB | 790610 | 8689099 | 88.27% | 4.756% |
| 18 | 10.965 | 10.924 | 11.018 | BV | 99836 | 1096669 | 11.14% | 0.600% |
| 19 | 11.264 | 11.074 | 11.334 | BB | 570261 | 6066554 | 61.63% | 3.321% |
| 20 | 11.881 | 11.751 | 11.918 | BV | 10600 | 117361 | 1.19% | 0.064% |
| 21 | 12.299 | 12.154 | 12.411 | PB | 767711 | 9843723 | 100.00% | 5.388% |
| 22 | 12.483 | 12.411 | 12.554 | BV | 7037 | 76502 | 0.78% | 0.042% |
| 23 | 12.593 | 12.554 | 12.639 | PV | 827107 | 9171211 | 93.17% | 5.020% |
| 24 | 12.705 | 12.677 | 12.778 | VB | 137353 | 1595559 | 16.21% | 0.873% |
| 25 | 12.874 | 12.781 | 12.911 | BV | 91258 | 1047580 | 10.64% | 0.573% |
| 26 | 13.458 | 13.427 | 13.534 | VB | 88931 | 1051844 | 10.69% | 0.576% |
| 27 | 14.461 | 14.381 | 14.480 | BV | 668209 | 8190942 | 83.21% | 4.483% |
| 28 | 14.506 | 14.480 | 14.532 | VV | 691157 | 8258293 | 83.89% | 4.520% |
| 29 | 14.554 | 14.532 | 14.654 | VB | 87343 | 1169907 | 11.88% | 0.640% |
| 30 | 14.929 | 14.905 | 15.038 | VB | 18092 | 296464 | 3.01% | 0.162% |
| 31 | 15.572 | 15.381 | 15.648 | BB | 75798 | 993033 | 10.09% | 0.544% |
| 32 | 16.011 | 15.971 | 16.025 | BV | 612214 | 8075583 | 82.04% | 4.420% |
| 33 | 16.045 | 16.025 | 16.102 | VV | 674876 | 7987793 | 81.15% | 4.372% |
| 34 | 16.386 | 16.348 | 16.461 | PV | 576892 | 7702978 | 78.25% | 4.216% |
| 35 | 16.514 | 16.461 | 16.544 | VV | 72164 | 994323 | 10.10% | 0.544% |
| 36 | 17.398 | 17.184 | 17.458 | BV | 70324 | 977885 | 9.93% | 0.535% |

**Instrument :**
FID_D
**ClientSampleId :**
Chamberlain AveMS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 17.754 | 17.701 | 17.769 | BV | 587984 | 8259381 | 83.91% | 4.521% |
| 38 | 17.791 | 17.769 | 17.958 | VV | 587701 | 7810938 | 79 | |
| 39 | 18.006 | 17.958 | 18.144 | VV | 525405 | 7389324 | 75 | |

Sum of corrected areas: 182

Aromatic EPH 093024.M Mon Oct 14 06:26:50 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067418.D
Signal(s) : FID1A.ch
Acq On : 12 Oct 2024 02:27
Operator : YP/AJ
Sample : P4258-03MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
Chamberlain AveMSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 03:26:40 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 | 2940829 | 25.981 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 51.96% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.276 | 3148648 | 24.840 ug/ml |
| 2) T | n-Decane (C10) | 4.342 | 3838839 | 29.864 ug/ml |
| 4) T | n-Dodecane (C12) | 6.359 | 4304922 | 33.176 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.153 | 4571910 | 35.497 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.751 | 4810404 | 36.136 ug/ml |
| 8) T | n-Octadecane (C18) | 11.192 | 5031659 | 37.106 ug/ml |
| 10) T | n-Eicosane (C20) | 12.500 | 5127221 | 39.268 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.111 | 4946452 | 38.567 ug/ml |
| 13) T | n-Docosane (C22) | 13.696 | 4939391 | 38.683 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.798 | 4904695 | 38.350 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.817 | 4867369 | 38.604 ug/ml |
| 16) T | n-Octacosane (C28) | 16.766 | 4829786 | 38.445 ug/ml |
| 17) T | n-Tricontane (C30) | 17.654 | 4880170 | 37.882 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.486 | 4843435 | 38.770 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.268 | 4805984 | 43.980 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.007 | 4692072 | 49.642 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.731 | 4521166 | 51.553 ug/mlm |
| 22) T | n-Tetracontane (C40) | 21.622 | 4337947 | 50.413 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

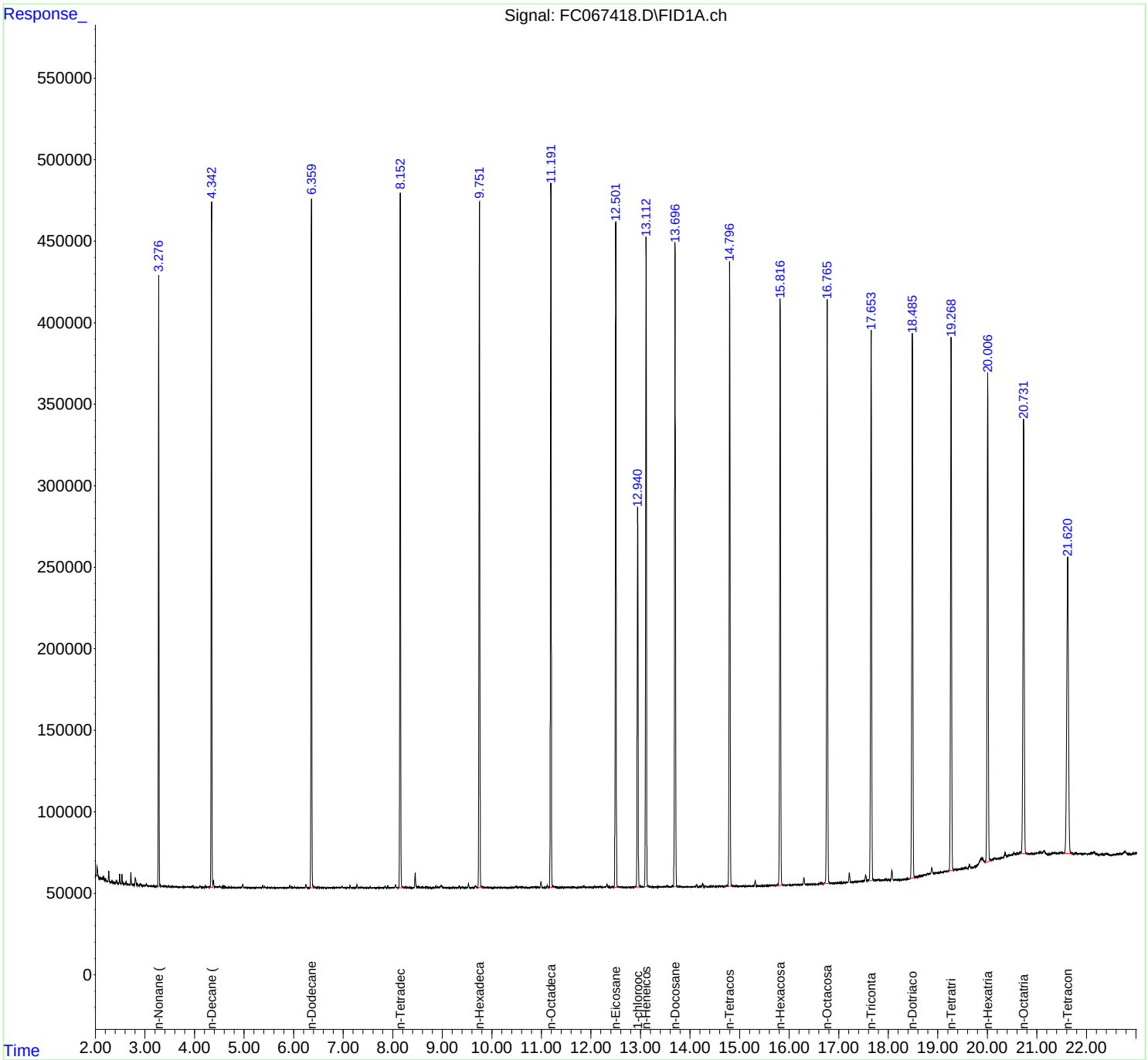
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067418.D
Signal(s) : FID1A.ch
Acq On : 12 Oct 2024 02:27
Operator : YP/AJ
Sample : P4258-03MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
Chamberlain AveMSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 03:26:40 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



14

**Instrument :**
FID_C
**ClientSampleId :**
Chamberlain AveMSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10112
Data File : FC067418.D
Signal(s) : FID1A.ch
Acq On : 12 Oct 2024 02:27
Sample : P4258-03MSD
Misc :
ALS Vial : 27 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 | 3.334 | BB | 374259 | 3148648 | 61.41% | 3.614% |
| 2 | 4.342 | 4.284 | 4.370 | BV | 418755 | 3838839 | 74.87% | 4.406% |
| 3 | 4.382 | 4.370 | 4.412 | VB | 4236 | 42710 | 0.83% | 0.049% |
| 4 | 6.359 | 6.294 | 6.429 | BB | 422557 | 4304922 | 83.96% | 4.941% |
| 5 | 8.153 | 8.089 | 8.219 | BB | 426277 | 4571910 | 89.17% | 5.247% |
| 6 | 8.454 | 8.344 | 8.492 | BB | 8512 | 80935 | 1.58% | 0.093% |
| 7 | 9.751 | 9.707 | 9.807 | BB | 421991 | 4810404 | 93.82% | 5.521% |
| 8 | 10.993 | 10.944 | 11.029 | BB | 3773 | 42515 | 0.83% | 0.049% |
| 9 | 11.192 | 11.154 | 11.259 | BB | 429944 | 5031659 | 98.14% | 5.775% |
| 10 | 12.500 | 12.464 | 12.559 | PB | 404869 | 5127221 | 100.00% | 5.885% |
| 11 | 12.941 | 12.870 | 13.004 | BB | 232586 | 2940829 | 57.36% | 3.375% |
| 12 | 13.111 | 13.044 | 13.174 | BB | 399827 | 4946452 | 96.47% | 5.677% |
| 13 | 13.696 | 13.659 | 13.762 | PB | 395523 | 4939391 | 96.34% | 5.669% |
| 14 | 14.798 | 14.705 | 14.857 | BB | 381262 | 4904695 | 95.66% | 5.629% |
| 15 | 15.817 | 15.725 | 15.889 | BB | 359791 | 4867369 | 94.93% | 5.586% |
| 16 | 16.296 | 16.237 | 16.329 | BB | 4340 | 59701 | 1.16% | 0.069% |
| 17 | 16.766 | 16.609 | 16.832 | BB | 357118 | 4829786 | 94.20% | 5.543% |
| 18 | 17.214 | 17.160 | 17.257 | BB | 5673 | 82516 | 1.61% | 0.095% |
| 19 | 17.542 | 17.487 | 17.574 | BB | 3577 | 48642 | 0.95% | 0.056% |
| 20 | 17.654 | 17.589 | 17.715 | BB | 334935 | 4880170 | 95.18% | 5.601% |
| 21 | 18.072 | 18.019 | 18.107 | BB | 5958 | 82120 | 1.60% | 0.094% |
| 22 | 18.486 | 18.412 | 18.547 | BB | 333421 | 4843435 | 94.47% | 5.559% |
| 23 | 18.879 | 18.757 | 18.920 | BB | 3640 | 64730 | 1.26% | 0.074% |
| 24 | 19.268 | 19.192 | 19.327 | BB | 327271 | 4805984 | 93.73% | 5.516% |
| 25 | 19.885 | 19.705 | 19.942 | BV | 3530 | 175020 | 3.41% | 0.201% |
| 26 | 20.007 | 19.942 | 20.085 | VB | 298924 | 4692072 | 91.51% | 5.385% |
| 27 | 20.358 | 20.087 | 20.394 | BB | 2532 | 50141 | 0.98% | 0.058% |
| 28 | 20.732 | 20.560 | 20.817 | BB | 265727 | 4578847 | 89.30% | 5.255% |
| 29 | 21.622 | 21.525 | 21.744 | BB | 181263 | 4337947 | 84.61% | 4.979% |
| | | | Sum of corrected areas: | | | 87129611 | | |

Aliphatic EPH 100224.M Mon Oct 14 04:49:32 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048470.D
Signal(s) : FID2B.ch
Acq On : 12 Oct 2024 03:04
Operator : YP/AJ
Sample : P4258-03MSD
Misc :
ALS Vial : 70 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
Chamberlain AveMSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 04:59:57 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 | 9001040 | 54.365 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 108.73% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.230 | 5945022 | 57.327 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 114.65% |
| 11) S | ortho-Terphenyl (SURR) | 11.264 | 5967413 | 32.432 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 64.86% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.201 | 6669548 | 38.056 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.719 | 7500518 | 40.171 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.766 | 7379606 | 39.048 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.032 | 7873521 | 41.042 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.328 | 8259491 | 43.665 ug/ml |
| 8) T | Flouorene (C16.55) | 9.106 | 8333993 | 46.127 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.494 | 8468422 | 47.782 ug/ml |
| 10) T | Anthracene (C19.43) | 10.569 | 8539180 | 47.989 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.299 | 8598419 | 47.538 ug/mlm |
| 13) T | Pyrene (C20.8) | 12.592 | 9012549 | 50.330 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.461 | 8079417 | 50.555 ug/ml |
| 15) T | Chrysene (C27.41) | 14.505 | 8146970 | 43.677 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.010 | 7937093 | 47.658 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.046 | 7890783 | 46.485 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.386 | 7585273 | 46.409 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.753 | 8136296 | 61.854 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.791 | 7663610 | 45.798 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.005 | 7276693 | 44.800 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

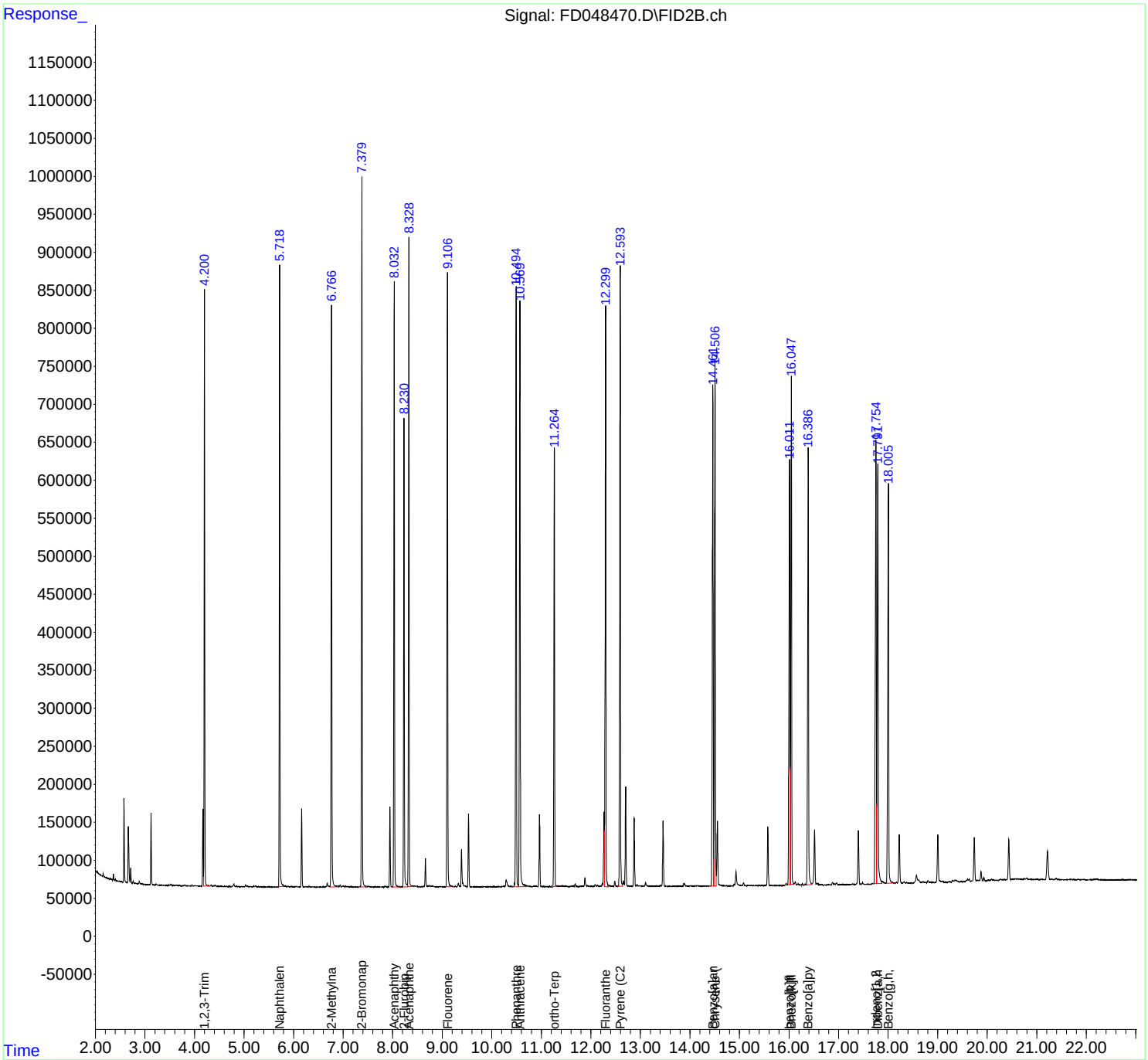
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD101124AR\
Data File : FD048470.D
Signal(s) : FID2B.ch
Acq On : 12 Oct 2024 03:04
Operator : YP/AJ
Sample : P4258-03MSD
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 14 04:59:57 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 :**
Chamberlain AveMSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



Instrument :
FID_D
ClientSampleId :
Chamberlain AveMSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10112
Data File : FD048470.D
Signal(s) : FID2B.ch
Acq On : 12 Oct 2024 03:04
Sample : P4258-03MSD
Misc :
ALS Vial : 70 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 | 4.201 | 4.183 | 4.298 | VB | 782721 | 6670637 | 69.48% | 3.736% |
| 2 | 5.719 | 5.658 | 5.815 | BV | 812917 | 7496981 | 78.08% | 4.199% |
| 3 | 6.164 | 6.101 | 6.228 | BB | 103136 | 989645 | 10.31% | 0.554% |
| 4 | 6.766 | 6.735 | 6.898 | VB | 751550 | 7375179 | 76.82% | 4.131% |
| 5 | 7.379 | 7.350 | 7.478 | PB | 917872 | 9000697 | 93.75% | 5.041% |
| 6 | 7.946 | 7.881 | 7.995 | BV | 104826 | 1022588 | 10.65% | 0.573% |
| 7 | 8.032 | 7.995 | 8.118 | PB | 791401 | 7836786 | 81.62% | 4.389% |
| 8 | 8.230 | 8.198 | 8.301 | PV | 616161 | 5941000 | 61.88% | 3.327% |
| 9 | 8.328 | 8.301 | 8.421 | VB | 851815 | 8239297 | 85.82% | 4.614% |
| 10 | 8.663 | 8.521 | 8.715 | BV | 37116 | 368961 | 3.84% | 0.207% |
| 11 | 9.106 | 9.008 | 9.225 | BB | 823461 | 8323630 | 86.69% | 4.662% |
| 12 | 9.390 | 9.350 | 9.468 | VB | 48081 | 570574 | 5.94% | 0.320% |
| 13 | 9.533 | 9.475 | 9.591 | BB | 95427 | 1033079 | 10.76% | 0.579% |
| 14 | 10.291 | 10.065 | 10.361 | BB | 9018 | 194109 | 2.02% | 0.109% |
| 15 | 10.494 | 10.418 | 10.536 | BV | 795212 | 8467814 | 88.20% | 4.742% |
| 16 | 10.569 | 10.536 | 10.745 | VB | 759315 | 8534700 | 88.89% | 4.780% |
| 17 | 10.965 | 10.921 | 11.011 | BV | 95722 | 1075603 | 11.20% | 0.602% |
| 18 | 11.264 | 11.195 | 11.328 | BB | 576588 | 5970187 | 62.18% | 3.344% |
| 19 | 11.880 | 11.718 | 11.918 | BV | 10621 | 117896 | 1.23% | 0.066% |
| 20 | 12.298 | 12.241 | 12.401 | VB | 759954 | 9601081 | 100.00% | 5.377% |
| 21 | 12.482 | 12.425 | 12.525 | BB | 6957 | 78770 | 0.82% | 0.044% |
| 22 | 12.592 | 12.558 | 12.637 | BV | 801663 | 9009957 | 93.84% | 5.046% |
| 23 | 12.656 | 12.637 | 12.678 | VV | 7136 | 104302 | 1.09% | 0.058% |
| 24 | 12.704 | 12.678 | 12.778 | VB | 131072 | 1565365 | 16.30% | 0.877% |
| 25 | 12.875 | 12.798 | 12.906 | BV | 89959 | 1029531 | 10.72% | 0.577% |
| 26 | 13.457 | 13.427 | 13.525 | VB | 85982 | 1032393 | 10.75% | 0.578% |
| 27 | 14.461 | 14.345 | 14.480 | BV | 659476 | 8056732 | 83.91% | 4.512% |
| 28 | 14.505 | 14.480 | 14.532 | VV | 682487 | 8139563 | 84.78% | 4.559% |
| 29 | 14.554 | 14.532 | 14.645 | VB | 84494 | 1135425 | 11.83% | 0.636% |
| 30 | 14.928 | 14.904 | 15.015 | VB | 18242 | 284470 | 2.96% | 0.159% |
| 31 | 15.571 | 15.355 | 15.648 | BB | 77150 | 1000257 | 10.42% | 0.560% |
| 32 | 16.010 | 15.971 | 16.025 | BV | 567199 | 7937093 | 82.67% | 4.445% |
| 33 | 16.046 | 16.025 | 16.098 | VV | 654774 | 7890783 | 82.19% | 4.419% |
| 34 | 16.386 | 16.348 | 16.461 | PV | 571116 | 7585273 | 79.00% | 4.248% |
| 35 | 16.514 | 16.461 | 16.543 | VV | 71537 | 981658 | 10.22% | 0.550% |
| 36 | 17.399 | 17.315 | 17.455 | BV | 70829 | 940463 | 9.80% | 0.527% |

**Instrument :**
FID_D
**ClientSampleId :**
Chamberlain AveMSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 17.753 | 17.701 | 17.768 | BV | 588366 | 8119567 | 84.57% | 4.547% |
| 38 | 17.791 | 17.768 | 17.877 | VV | 552690 | 7564557 | 78 | |
| 39 | 18.005 | 17.948 | 18.141 | BB | 523371 | 7267454 | 75 | |

Sum of corrected areas: 1785

Aromatic EPH 093024.M Mon Oct 14 06:27:06 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: | FC101124AL | Instrument | FID_c |
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| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4376-01 | FC067403.D | ortho-Terphenyl (SURR) | yogesh | 10/14/2024 8:48:43 AM | Ankita | 10/14/2024 9:12:28 | Peak Integrated by Software |
| P4376-01D | FC067404.D | ortho-Terphenyl (SURR) | yogesh | 10/14/2024 8:48:45 AM | Ankita | 10/14/2024 9:12:29 | Peak Integrated by Software |
| P4376-01MS | FC067405.D | A~Naphthalene (C11.7) | yogesh | 10/14/2024 8:48:48 AM | Ankita | 10/14/2024 9:12:31 | Peak Integrated by Software |
| P4376-01MS | FC067405.D | n-Dotriacontane (C32) | yogesh | 10/14/2024 8:48:48 AM | Ankita | 10/14/2024 9:12:31 | Peak Integrated by Software |
| P4376-01MS | FC067405.D | n-Hexatriacontane (C36) | yogesh | 10/14/2024 8:48:48 AM | Ankita | 10/14/2024 9:12:31 | Peak Integrated by Software |
| P4376-01MS | FC067405.D | n-Octacosane (C28) | yogesh | 10/14/2024 8:48:48 AM | Ankita | 10/14/2024 9:12:31 | Peak Integrated by Software |
| P4376-01MS | FC067405.D | n-Octatriacontane (C38) | yogesh | 10/14/2024 8:48:48 AM | Ankita | 10/14/2024 9:12:31 | Peak Integrated by Software |
| P4376-01MS | FC067405.D | n-Tetracontane (C40) | yogesh | 10/14/2024 8:48:48 AM | Ankita | 10/14/2024 9:12:31 | Peak Integrated by Software |
| P4376-01MS | FC067405.D | n-Tetratriacontane (C34) | yogesh | 10/14/2024 8:48:48 AM | Ankita | 10/14/2024 9:12:31 | Peak Integrated by Software |
| P4376-01MS | FC067405.D | n-Tricontane (C30) | yogesh | 10/14/2024 8:48:48 AM | Ankita | 10/14/2024 9:12:31 | Peak Integrated by Software |
| P4376-01MS | FC067405.D | ortho-Terphenyl (SURR) | yogesh | 10/14/2024 8:48:48 AM | Ankita | 10/14/2024 9:12:31 | Peak Integrated by Software |
| P4376-01MSD | FC067406.D | A~Naphthalene (C11.7) | yogesh | 10/14/2024 8:48:50 AM | Ankita | 10/14/2024 9:12:32 | Peak Integrated by Software |
| P4376-01MSD | FC067406.D | n-Dotriacontane (C32) | yogesh | 10/14/2024 8:48:50 AM | Ankita | 10/14/2024 9:12:32 | Peak Integrated by Software |

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| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4376-01MSD | FC067406.D | n-Hexatriacontane (C36) | yogesh | 10/14/2024 8:48:50 AM | Ankita | 10/14/2024 9:12:32 | Peak Integrated by Software |
| P4376-01MSD | FC067406.D | n-Octacosane (C28) | yogesh | 10/14/2024 8:48:50 AM | Ankita | 10/14/2024 9:12:32 | Peak Integrated by Software |
| P4376-01MSD | FC067406.D | n-Octatriacontane (C38) | yogesh | 10/14/2024 8:48:50 AM | Ankita | 10/14/2024 9:12:32 | Peak Integrated by Software |
| P4376-01MSD | FC067406.D | n-Tetracontane (C40) | yogesh | 10/14/2024 8:48:50 AM | Ankita | 10/14/2024 9:12:32 | Peak Integrated by Software |
| P4376-01MSD | FC067406.D | n-Tetratriacontane (C34) | yogesh | 10/14/2024 8:48:50 AM | Ankita | 10/14/2024 9:12:32 | Peak Integrated by Software |
| P4376-01MSD | FC067406.D | n-Tricontane (C30) | yogesh | 10/14/2024 8:48:50 AM | Ankita | 10/14/2024 9:12:32 | Peak Integrated by Software |
| P4376-01MSD | FC067406.D | ortho-Terphenyl (SURR) | yogesh | 10/14/2024 8:48:50 AM | Ankita | 10/14/2024 9:12:32 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC067408.D | n-Dotriacontane (C32) | yogesh | 10/14/2024 8:48:52 AM | Ankita | 10/14/2024 9:12:34 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC067408.D | n-Hexatriacontane (C36) | yogesh | 10/14/2024 8:48:52 AM | Ankita | 10/14/2024 9:12:34 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC067408.D | n-Octacosane (C28) | yogesh | 10/14/2024 8:48:52 AM | Ankita | 10/14/2024 9:12:34 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC067408.D | n-Octatriacontane (C38) | yogesh | 10/14/2024 8:48:52 AM | Ankita | 10/14/2024 9:12:34 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC067408.D | n-Tetracontane (C40) | yogesh | 10/14/2024 8:48:52 AM | Ankita | 10/14/2024 9:12:34 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC067408.D | n-Tetratriacontane (C34) | yogesh | 10/14/2024 8:48:52 AM | Ankita | 10/14/2024 9:12:34 | Peak Integrated by Software |

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|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PB164054BS | FC067410.D | n-Octatriacontane (C38) | yogesh | 10/14/2024 8:48:54 AM | Ankita | 10/14/2024 9:12:36 | Peak Integrated by Software |
| PB164054BS | FC067410.D | n-Tetracontane (C40) | yogesh | 10/14/2024 8:48:54 AM | Ankita | 10/14/2024 9:12:36 | Peak Integrated by Software |
| PB164054BS | FC067410.D | n-Tetratriacontane (C34) | yogesh | 10/14/2024 8:48:54 AM | Ankita | 10/14/2024 9:12:36 | Peak Integrated by Software |
| PB164054BSD | FC067411.D | n-Hexatriacontane (C36) | yogesh | 10/14/2024 8:48:56 AM | Ankita | 10/14/2024 9:12:37 | Peak Integrated by Software |
| PB164054BSD | FC067411.D | n-Octatriacontane (C38) | yogesh | 10/14/2024 8:48:56 AM | Ankita | 10/14/2024 9:12:37 | Peak Integrated by Software |
| PB164054BSD | FC067411.D | n-Tetratriacontane (C34) | yogesh | 10/14/2024 8:48:56 AM | Ankita | 10/14/2024 9:12:37 | Peak Integrated by Software |
| P4368-01 | FC067412.D | n-Decane (C10) | yogesh | 10/14/2024 8:48:58 AM | Ankita | 10/14/2024 9:12:39 | Peak Integrated by Software |
| P4368-01 | FC067412.D | n-Hexatriacontane (C36) | yogesh | 10/14/2024 8:48:58 AM | Ankita | 10/14/2024 9:12:39 | Peak Integrated by Software |
| P4368-01 | FC067412.D | n-Octatriacontane (C38) | yogesh | 10/14/2024 8:48:58 AM | Ankita | 10/14/2024 9:12:39 | Peak Integrated by Software |
| P4368-01 | FC067412.D | n-Tetracontane (C40) | yogesh | 10/14/2024 8:48:58 AM | Ankita | 10/14/2024 9:12:39 | Peak Integrated by Software |
| P4368-01 | FC067412.D | n-Tetracosane (C24) | yogesh | 10/14/2024 8:48:58 AM | Ankita | 10/14/2024 9:12:39 | Peak Integrated by Software |
| P4368-01 | FC067412.D | n-Tetratriacontane (C34) | yogesh | 10/14/2024 8:48:58 AM | Ankita | 10/14/2024 9:12:39 | Peak Integrated by Software |
| P4368-01 | FC067413.D | n-Decane (C10) | yogesh | 10/14/2024 8:48:59 AM | Ankita | 10/14/2024 9:12:40 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FC101124AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4368-01 | FC067413.D | n-Hexatriacontane (C36) | yogesh | 10/14/2024 8:48:59 AM | Ankita | 10/14/2024 9:12:40 | Peak Integrated by Software |
| P4368-01 | FC067413.D | n-Octatriacontane (C38) | yogesh | 10/14/2024 8:48:59 AM | Ankita | 10/14/2024 9:12:40 | Peak Integrated by Software |
| P4368-01 | FC067413.D | n-Tetracontane (C40) | yogesh | 10/14/2024 8:48:59 AM | Ankita | 10/14/2024 9:12:40 | Peak Integrated by Software |
| P4368-01 | FC067413.D | n-Tetracosane (C24) | yogesh | 10/14/2024 8:48:59 AM | Ankita | 10/14/2024 9:12:40 | Peak Integrated by Software |
| P4368-01 | FC067413.D | n-Tetratriacontane (C34) | yogesh | 10/14/2024 8:48:59 AM | Ankita | 10/14/2024 9:12:40 | Peak Integrated by Software |
| P4368-02 | FC067414.D | n-Decane (C10) | yogesh | 10/14/2024 8:49:01 AM | Ankita | 10/14/2024 9:12:41 | Peak Integrated by Software |
| P4368-02 | FC067414.D | n-Hexacosane (C26) | yogesh | 10/14/2024 8:49:01 AM | Ankita | 10/14/2024 9:12:41 | Peak Integrated by Software |
| P4368-02 | FC067414.D | n-Hexatriacontane (C36) | yogesh | 10/14/2024 8:49:01 AM | Ankita | 10/14/2024 9:12:41 | Peak Integrated by Software |
| P4368-02 | FC067414.D | n-Tetracontane (C40) | yogesh | 10/14/2024 8:49:01 AM | Ankita | 10/14/2024 9:12:41 | Peak Integrated by Software |
| P4368-02 | FC067414.D | n-Tetracosane (C24) | yogesh | 10/14/2024 8:49:01 AM | Ankita | 10/14/2024 9:12:41 | Peak Integrated by Software |
| P4368-02 | FC067414.D | n-Tricontane (C30) | yogesh | 10/14/2024 8:49:01 AM | Ankita | 10/14/2024 9:12:41 | Peak Integrated by Software |
| P4258-03MS | FC067417.D | n-Dotriacontane (C32) | yogesh | 10/14/2024 8:49:02 AM | Ankita | 10/14/2024 9:12:57 | Peak Integrated by Software |
| P4258-03MS | FC067417.D | n-Octatriacontane (C38) | yogesh | 10/14/2024 8:49:02 AM | Ankita | 10/14/2024 9:12:57 | Peak Integrated by Software |

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| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4258-03MS | FC067417.D | n-Tetratriacontane (C34) | yogesh | 10/14/2024 8:49:02 AM | Ankita | 10/14/2024 9:12:57 | Peak Integrated by Software |
| P4258-03MSD | FC067418.D | n-Octatriacontane (C38) | yogesh | 10/14/2024 8:49:04 AM | Ankita | 10/14/2024 9:13:00 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC067420.D | n-Hexatriacontane (C36) | yogesh | 10/14/2024 8:49:05 AM | Ankita | 10/14/2024 9:13:02 | Peak Integrated by Software |
| P4368-07 | FC067422.D | n-Decane (C10) | yogesh | 10/14/2024 8:49:07 AM | Ankita | 10/14/2024 9:13:03 | Peak Integrated by Software |
| P4368-07 | FC067422.D | n-Hexacosane (C26) | yogesh | 10/14/2024 8:49:07 AM | Ankita | 10/14/2024 9:13:03 | Peak Integrated by Software |
| P4368-07 | FC067422.D | n-Hexatriacontane (C36) | yogesh | 10/14/2024 8:49:07 AM | Ankita | 10/14/2024 9:13:03 | Peak Integrated by Software |
| P4368-07 | FC067422.D | n-Tetracontane (C40) | yogesh | 10/14/2024 8:49:07 AM | Ankita | 10/14/2024 9:13:03 | Peak Integrated by Software |
| P4368-07 | FC067422.D | n-Tetracosane (C24) | yogesh | 10/14/2024 8:49:07 AM | Ankita | 10/14/2024 9:13:03 | Peak Integrated by Software |
| P4368-07 | FC067423.D | n-Decane (C10) | yogesh | 10/14/2024 8:49:09 AM | Ankita | 10/14/2024 9:13:04 | Peak Integrated by Software |
| P4368-07 | FC067423.D | n-Octatriacontane (C38) | yogesh | 10/14/2024 8:49:09 AM | Ankita | 10/14/2024 9:13:04 | Peak Integrated by Software |
| P4368-07 | FC067423.D | n-Tetracosane (C24) | yogesh | 10/14/2024 8:49:09 AM | Ankita | 10/14/2024 9:13:04 | Peak Integrated by Software |
| P4368-08 | FC067424.D | n-Tetracontane (C40) | yogesh | 10/14/2024 8:49:11 AM | Ankita | 10/14/2024 9:13:06 | Peak Integrated by Software |
| P4368-08 | FC067424.D | n-Tetracosane (C24) | yogesh | 10/14/2024 8:49:11 AM | Ankita | 10/14/2024 9:13:06 | Peak Integrated by Software |

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| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 20 PPM ALIPHATIC HC | FC067426.D | n-Tetratriacontane (C34) | yogesh | 10/14/2024 8:49:13 AM | Ankita | 10/14/2024 9:13:07 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FD093024AR | Instrument | FID_d |
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| Sequence: | FD101124AR | Instrument | FID_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 20 PPM AROMATIC HC | FD048454.D | benzo[b]fluoranthene (C30.41) | yogesh | 10/14/2024 8:52:05 AM | Ankita | 10/14/2024 9:14:43 | Peak Integrated by Software |
| 20 PPM AROMATIC HC | FD048454.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 10/14/2024 8:52:05 AM | Ankita | 10/14/2024 9:14:43 | Peak Integrated by Software |
| P4368-07 | FD048456.D | Anthracene (C19.43) | yogesh | 10/14/2024 8:52:07 AM | Ankita | 10/14/2024 9:14:44 | Peak Integrated by Software |
| P4368-07 | FD048456.D | Benzo[a]pyrene (C31.34) | yogesh | 10/14/2024 8:52:07 AM | Ankita | 10/14/2024 9:14:44 | Peak Integrated by Software |
| P4368-07 | FD048456.D | benzo[b]fluoranthene (C30.41) | yogesh | 10/14/2024 8:52:07 AM | Ankita | 10/14/2024 9:14:44 | Peak Integrated by Software |
| P4368-07 | FD048456.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 10/14/2024 8:52:07 AM | Ankita | 10/14/2024 9:14:44 | Peak Integrated by Software |
| P4368-07 | FD048456.D | Chrysene (C27.41) | yogesh | 10/14/2024 8:52:07 AM | Ankita | 10/14/2024 9:14:44 | Peak Integrated by Software |
| P4368-07 | FD048456.D | Dibenz[a,h]anthracene (C30.36) | yogesh | 10/14/2024 8:52:07 AM | Ankita | 10/14/2024 9:14:44 | Peak Integrated by Software |
| P4368-07 | FD048456.D | Naphthalene (C11.7) | yogesh | 10/14/2024 8:52:07 AM | Ankita | 10/14/2024 9:14:44 | Peak Integrated by Software |
| P4368-07 | FD048456.D | Phenanthrene (C19.36) | yogesh | 10/14/2024 8:52:07 AM | Ankita | 10/14/2024 9:14:44 | Peak Integrated by Software |
| P4368-07 | FD048457.D | Anthracene (C19.43) | yogesh | 10/14/2024 8:52:08 AM | Ankita | 10/14/2024 9:14:46 | Peak Integrated by Software |
| P4368-07 | FD048457.D | Benzo[a]pyrene (C31.34) | yogesh | 10/14/2024 8:52:08 AM | Ankita | 10/14/2024 9:14:46 | Peak Integrated by Software |
| P4368-07 | FD048457.D | benzo[b]fluoranthene (C30.41) | yogesh | 10/14/2024 8:52:08 AM | Ankita | 10/14/2024 9:14:46 | Peak Integrated by Software |

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| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4368-07 | FD048457.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 10/14/2024 8:52:08 AM | Ankita | 10/14/2024 9:14:46 | Peak Integrated by Software |
| P4368-07 | FD048457.D | Indeno[1,2,3-cd]pyrene (C35.01) | yogesh | 10/14/2024 8:52:08 AM | Ankita | 10/14/2024 9:14:46 | Peak Integrated by Software |
| P4368-07 | FD048457.D | Naphthalene (C11.7) | yogesh | 10/14/2024 8:52:08 AM | Ankita | 10/14/2024 9:14:46 | Peak Integrated by Software |
| P4368-07 | FD048457.D | Phenanthrene (C19.36) | yogesh | 10/14/2024 8:52:08 AM | Ankita | 10/14/2024 9:14:46 | Peak Integrated by Software |
| P4368-08 | FD048458.D | Benzo[a]anthracene (C26.37) | yogesh | 10/14/2024 8:52:10 AM | Ankita | 10/14/2024 9:14:48 | Peak Integrated by Software |
| P4368-08 | FD048458.D | benzo[b]fluoranthene (C30.41) | yogesh | 10/14/2024 8:52:10 AM | Ankita | 10/14/2024 9:14:48 | Peak Integrated by Software |
| P4368-08 | FD048458.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 10/14/2024 8:52:10 AM | Ankita | 10/14/2024 9:14:48 | Peak Integrated by Software |
| P4368-08 | FD048458.D | Fluoranthene (C21.85) | yogesh | 10/14/2024 8:52:10 AM | Ankita | 10/14/2024 9:14:48 | Peak Integrated by Software |
| P4368-08 | FD048458.D | Indeno[1,2,3-cd]pyrene (C35.01) | yogesh | 10/14/2024 8:52:10 AM | Ankita | 10/14/2024 9:14:48 | Peak Integrated by Software |
| 20 PPM AROMATIC HC | FD048460.D | benzo[b]fluoranthene (C30.41) | yogesh | 10/14/2024 8:52:12 AM | Ankita | 10/14/2024 9:14:50 | Peak Integrated by Software |
| 20 PPM AROMATIC HC | FD048460.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 10/14/2024 8:52:12 AM | Ankita | 10/14/2024 9:14:50 | Peak Integrated by Software |
| PB164054BS | FD048462.D | Fluoranthene (C21.85) | yogesh | 10/14/2024 8:52:13 AM | Ankita | 10/14/2024 9:14:51 | Peak Integrated by Software |
| PB164054BSD | FD048463.D | Fluoranthene (C21.85) | yogesh | 10/14/2024 8:52:15 AM | Ankita | 10/14/2024 9:14:53 | Peak Integrated by Software |

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| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4368-01 | FD048464.D | Benzo[a]anthracene (C26.37) | yogesh | 10/14/2024 8:52:17 AM | Ankita | 10/14/2024 9:15:08 | Peak Integrated by Software |
| P4368-01 | FD048464.D | Benzo[a]pyrene (C31.34) | yogesh | 10/14/2024 8:52:17 AM | Ankita | 10/14/2024 9:15:08 | Peak Integrated by Software |
| P4368-01 | FD048464.D | benzo[b]fluoranthene (C30.41) | yogesh | 10/14/2024 8:52:17 AM | Ankita | 10/14/2024 9:15:08 | Peak Integrated by Software |
| P4368-01 | FD048464.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 10/14/2024 8:52:17 AM | Ankita | 10/14/2024 9:15:08 | Peak Integrated by Software |
| P4368-01 | FD048464.D | Chrysene (C27.41) | yogesh | 10/14/2024 8:52:17 AM | Ankita | 10/14/2024 9:15:08 | Peak Integrated by Software |
| P4368-01 | FD048464.D | Dibenz[a,h]anthracene (C30.36) | yogesh | 10/14/2024 8:52:17 AM | Ankita | 10/14/2024 9:15:08 | Peak Integrated by Software |
| P4368-01 | FD048464.D | Indeno[1,2,3-cd]pyrene (C35.01) | yogesh | 10/14/2024 8:52:17 AM | Ankita | 10/14/2024 9:15:08 | Peak Integrated by Software |
| P4368-01 | FD048465.D | 1,2,3-Trimethylbenzene (C10.1) | yogesh | 10/14/2024 8:52:19 AM | Ankita | 10/14/2024 9:15:10 | Peak Integrated by Software |
| P4368-01 | FD048465.D | Benzo[a]anthracene (C26.37) | yogesh | 10/14/2024 8:52:19 AM | Ankita | 10/14/2024 9:15:10 | Peak Integrated by Software |
| P4368-01 | FD048465.D | benzo[b]fluoranthene (C30.41) | yogesh | 10/14/2024 8:52:19 AM | Ankita | 10/14/2024 9:15:10 | Peak Integrated by Software |
| P4368-01 | FD048465.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 10/14/2024 8:52:19 AM | Ankita | 10/14/2024 9:15:10 | Peak Integrated by Software |
| P4368-01 | FD048465.D | Naphthalene (C11.7) | yogesh | 10/14/2024 8:52:19 AM | Ankita | 10/14/2024 9:15:10 | Peak Integrated by Software |
| P4368-02 | FD048466.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 10/14/2024 8:52:21 AM | Ankita | 10/14/2024 9:15:11 | Peak Integrated by Software |

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| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4368-02 | FD048466.D | Chrysene (C27.41) | yogesh | 10/14/2024 8:52:21 AM | Ankita | 10/14/2024 9:15:11 | Peak Integrated by Software |
| P4368-02 | FD048466.D | Fluoranthene (C21.85) | yogesh | 10/14/2024 8:52:21 AM | Ankita | 10/14/2024 9:15:11 | Peak Integrated by Software |
| P4368-02 | FD048466.D | Indeno[1,2,3-cd]pyrene (C35.01) | yogesh | 10/14/2024 8:52:21 AM | Ankita | 10/14/2024 9:15:11 | Peak Integrated by Software |
| P4368-02 | FD048466.D | Phenanthrene (C19.36) | yogesh | 10/14/2024 8:52:21 AM | Ankita | 10/14/2024 9:15:11 | Peak Integrated by Software |
| P4368-02 | FD048466.D | Pyrene (C20.8) | yogesh | 10/14/2024 8:52:21 AM | Ankita | 10/14/2024 9:15:11 | Peak Integrated by Software |
| P4258-03MS | FD048469.D | Fluoranthene (C21.85) | yogesh | 10/14/2024 8:52:22 AM | Ankita | 10/14/2024 9:15:13 | Peak Integrated by Software |
| P4258-03MSD | FD048470.D | Fluoranthene (C21.85) | yogesh | 10/14/2024 8:52:24 AM | Ankita | 10/14/2024 9:15:15 | Peak Integrated by Software |
| 20 PPM AROMATIC HC | FD048472.D | Benzo[a]pyrene (C31.34) | yogesh | 10/14/2024 8:52:26 AM | Ankita | 10/14/2024 9:15:16 | Peak Integrated by Software |

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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 | 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

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC101124AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/11/2024 12:39:06 PM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:13:11 AM | | |
| SubDirectory | FC101124AL | 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 | FC067397.D | 11 Oct 2024 09:28 | YP/AJ | Ok |
| 2 | I.BLK | FC067398.D | 11 Oct 2024 10:04 | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC STD | FC067399.D | 11 Oct 2024 12:04 | YP/AJ | Ok |
| 4 | PB164070BL | FC067400.D | 11 Oct 2024 14:12 | YP/AJ | Ok |
| 5 | PB164070BS | FC067401.D | 11 Oct 2024 14:49 | YP/AJ | Ok |
| 6 | PB164070BSD | FC067402.D | 11 Oct 2024 15:25 | YP/AJ | Ok |
| 7 | P4376-01 | FC067403.D | 11 Oct 2024 16:02 | YP/AJ | Ok,M |
| 8 | P4376-01D | FC067404.D | 11 Oct 2024 16:39 | YP/AJ | Ok,M |
| 9 | P4376-01MS | FC067405.D | 11 Oct 2024 17:15 | YP/AJ | Ok,M |
| 10 | P4376-01MSD | FC067406.D | 11 Oct 2024 17:52 | YP/AJ | Ok,M |
| 11 | I.BLK | FC067407.D | 11 Oct 2024 19:06 | YP/AJ | Ok |
| 12 | 20 PPM ALIPHATIC HC STD | FC067408.D | 11 Oct 2024 19:42 | YP/AJ | Ok,M |
| 13 | PB164054BL | FC067409.D | 11 Oct 2024 20:55 | YP/AJ | Ok |
| 14 | PB164054BS | FC067410.D | 11 Oct 2024 21:31 | YP/AJ | Ok,M |
| 15 | PB164054BSD | FC067411.D | 11 Oct 2024 22:07 | YP/AJ | Ok,M |
| 16 | P4368-01 | FC067412.D | 11 Oct 2024 22:44 | YP/AJ | Ok,M |
| 17 | P4368-01 | FC067413.D | 11 Oct 2024 23:21 | YP/AJ | Ok,M |
| 18 | P4368-02 | FC067414.D | 11 Oct 2024 23:58 | YP/AJ | Ok,M |
| 19 | P4258-03 | FC067415.D | 12 Oct 2024 00:35 | YP/AJ | Ok |
| 20 | P4258-03D | FC067416.D | 12 Oct 2024 01:12 | YP/AJ | Ok |
| 21 | P4258-03MS | FC067417.D | 12 Oct 2024 01:50 | YP/AJ | Ok,M |

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC101124AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/11/2024 12:39:06 PM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:13:11 AM | | |
| SubDirectory | FC101124AL | 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 | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4258-03MSD | FC067418.D | 12 Oct 2024 02:27 | YP/AJ | Ok,M |
| 23 | I.BLK | FC067419.D | 12 Oct 2024 03:04 | YP/AJ | Ok |
| 24 | 20 PPM ALIPHATIC HC STD | FC067420.D | 12 Oct 2024 03:41 | YP/AJ | Ok,M |
| 25 | PB164057BL | FC067421.D | 12 Oct 2024 04:55 | YP/AJ | Ok |
| 26 | P4368-07 | FC067422.D | 12 Oct 2024 05:31 | YP/AJ | Ok,M |
| 27 | P4368-07 | FC067423.D | 12 Oct 2024 06:08 | YP/AJ | Ok,M |
| 28 | P4368-08 | FC067424.D | 12 Oct 2024 06:45 | YP/AJ | Ok,M |
| 29 | I.BLK | FC067425.D | 12 Oct 2024 07:22 | YP/AJ | Ok |
| 30 | 20 PPM ALIPHATIC HC STD | FC067426.D | 12 Oct 2024 07:59 | YP/AJ | Ok,M |

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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 |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD101124AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/11/2024 2:58:03 PM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:15:29 AM | | |
| SubDirectory | FD101124AR | 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 | FD048452.D | 11 Oct 2024 09:28 | YP/AJ | Ok |
| 2 | I.BLK | FD048453.D | 11 Oct 2024 10:04 | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC STD | FD048454.D | 11 Oct 2024 12:04 | YP/AJ | Ok,M |
| 4 | PB164057BL | FD048455.D | 11 Oct 2024 16:39 | YP/AJ | Ok |
| 5 | P4368-07 | FD048456.D | 11 Oct 2024 17:15 | YP/AJ | Ok,M |
| 6 | P4368-07 | FD048457.D | 11 Oct 2024 17:52 | YP/AJ | Ok,M |
| 7 | P4368-08 | FD048458.D | 11 Oct 2024 18:29 | YP/AJ | Ok,M |
| 8 | I.BLK | FD048459.D | 11 Oct 2024 19:06 | YP/AJ | Ok |
| 9 | 20 PPM AROMATIC HC STD | FD048460.D | 11 Oct 2024 19:42 | YP/AJ | Ok,M |
| 10 | PB164054BL | FD048461.D | 11 Oct 2024 21:31 | YP/AJ | Ok |
| 11 | PB164054BS | FD048462.D | 11 Oct 2024 22:07 | YP/AJ | Ok,M |
| 12 | PB164054BSD | FD048463.D | 11 Oct 2024 22:44 | YP/AJ | Ok,M |
| 13 | P4368-01 | FD048464.D | 11 Oct 2024 23:21 | YP/AJ | Ok,M |
| 14 | P4368-01 | FD048465.D | 11 Oct 2024 23:58 | YP/AJ | Ok,M |
| 15 | P4368-02 | FD048466.D | 12 Oct 2024 00:35 | YP/AJ | Ok,M |
| 16 | P4258-03 | FD048467.D | 12 Oct 2024 01:12 | YP/AJ | Ok |
| 17 | P4258-03D | FD048468.D | 12 Oct 2024 01:50 | YP/AJ | Ok |
| 18 | P4258-03MS | FD048469.D | 12 Oct 2024 02:27 | YP/AJ | Ok,M |
| 19 | P4258-03MSD | FD048470.D | 12 Oct 2024 03:04 | YP/AJ | Ok,M |
| 20 | I.BLK | FD048471.D | 12 Oct 2024 03:41 | YP/AJ | Ok |
| 21 | 20 PPM AROMATIC HC STD | FD048472.D | 12 Oct 2024 04:18 | YP/AJ | Ok,M |

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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 # FC101124AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/11/2024 12:39:06 PM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:13:11 AM | | |
| SubDirectory | FC101124AL | 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 | FC067397.D | 11 Oct 2024 09:28 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FC067398.D | 11 Oct 2024 10:04 | | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067399.D | 11 Oct 2024 12:04 | | YP/AJ | Ok |
| 4 | PB164070BL | PB164070BL | FC067400.D | 11 Oct 2024 14:12 | | YP/AJ | Ok |
| 5 | PB164070BS | PB164070BS | FC067401.D | 11 Oct 2024 14:49 | | YP/AJ | Ok |
| 6 | PB164070BSD | PB164070BSD | FC067402.D | 11 Oct 2024 15:25 | | YP/AJ | Ok |
| 7 | P4376-01 | OR-02-100924 | FC067403.D | 11 Oct 2024 16:02 | | YP/AJ | Ok,M |
| 8 | P4376-01D | P4376-01D | FC067404.D | 11 Oct 2024 16:39 | | YP/AJ | Ok,M |
| 9 | P4376-01MS | OR-02-100924MS | FC067405.D | 11 Oct 2024 17:15 | FC067403.D | YP/AJ | Ok,M |
| 10 | P4376-01MSD | OR-02-100924MSD | FC067406.D | 11 Oct 2024 17:52 | FC067403.D!FC067405.D | YP/AJ | Ok,M |
| 11 | I.BLK | I.BLK | FC067407.D | 11 Oct 2024 19:06 | | YP/AJ | Ok |
| 12 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067408.D | 11 Oct 2024 19:42 | | YP/AJ | Ok,M |
| 13 | PB164054BL | PB164054BL | FC067409.D | 11 Oct 2024 20:55 | | YP/AJ | Ok |
| 14 | PB164054BS | PB164054BS | FC067410.D | 11 Oct 2024 21:31 | | YP/AJ | Ok,M |
| 15 | PB164054BSD | PB164054BSD | FC067411.D | 11 Oct 2024 22:07 | | YP/AJ | Ok,M |
| 16 | P4368-01 | LOD-MDL-SOIL-01-QT | FC067412.D | 11 Oct 2024 22:44 | 2.5 PPM SOIL LOD | YP/AJ | Ok,M |
| 17 | P4368-01 | LOD-MDL-SOIL-01-QT | FC067413.D | 11 Oct 2024 23:21 | 4 PPM SOIL LOD | YP/AJ | Ok,M |
| 18 | P4368-02 | LOQ-SOIL-02-QT4-202 | FC067414.D | 11 Oct 2024 23:58 | 5 PPM SOIL LOQ | YP/AJ | Ok,M |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC101124AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/11/2024 12:39:06 PM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:13:11 AM | | |
| SubDirectory | FC101124AL | 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 | P4258-03 | Chamberlain Ave | FC067415.D | 12 Oct 2024 00:35 | | YP/AJ | Ok |
| 20 | P4258-03D | P4258-03D | FC067416.D | 12 Oct 2024 01:12 | | YP/AJ | Ok |
| 21 | P4258-03MS | Chamberlain AveMS | FC067417.D | 12 Oct 2024 01:50 | FC067415.D | YP/AJ | Ok,M |
| 22 | P4258-03MSD | Chamberlain AveMSD | FC067418.D | 12 Oct 2024 02:27 | FC067415.D!FC067417.D | YP/AJ | Ok,M |
| 23 | I.BLK | I.BLK | FC067419.D | 12 Oct 2024 03:04 | | YP/AJ | Ok |
| 24 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067420.D | 12 Oct 2024 03:41 | | YP/AJ | Ok,M |
| 25 | PB164057BL | PB164057BL | FC067421.D | 12 Oct 2024 04:55 | | YP/AJ | Ok |
| 26 | P4368-07 | LOD-MDL-WATER-01-( | FC067422.D | 12 Oct 2024 05:31 | 2.5 PPM WATER LOD | YP/AJ | Ok,M |
| 27 | P4368-07 | LOD-MDL-WATER-01-( | FC067423.D | 12 Oct 2024 06:08 | 4 PPM WATER LOD | YP/AJ | Ok,M |
| 28 | P4368-08 | LOQ-WATER-02-QT4-2 | FC067424.D | 12 Oct 2024 06:45 | 5 PPM WATER LOQ | YP/AJ | Ok,M |
| 29 | I.BLK | I.BLK | FC067425.D | 12 Oct 2024 07:22 | | YP/AJ | Ok |
| 30 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067426.D | 12 Oct 2024 07:59 | | YP/AJ | Ok,M |

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 | 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 # FD101124AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/11/2024 2:58:03 PM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:15:29 AM | | |
| SubDirectory | FD101124AR | 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 | FD048452.D | 11 Oct 2024 09:28 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FD048453.D | 11 Oct 2024 10:04 | | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048454.D | 11 Oct 2024 12:04 | | YP/AJ | Ok,M |
| 4 | PB164057BL | PB164057BL | FD048455.D | 11 Oct 2024 16:39 | | YP/AJ | Ok |
| 5 | P4368-07 | LOD-MDL-WATER-01-( | FD048456.D | 11 Oct 2024 17:15 | 2.5 PPM WATER LOD | YP/AJ | Ok,M |
| 6 | P4368-07 | LOD-MDL-WATER-01-( | FD048457.D | 11 Oct 2024 17:52 | 4 PPM WATER LOD | YP/AJ | Ok,M |
| 7 | P4368-08 | LOQ-WATER-02-QT4-2 | FD048458.D | 11 Oct 2024 18:29 | 5 PPM WATER LOQ | YP/AJ | Ok,M |
| 8 | I.BLK | I.BLK | FD048459.D | 11 Oct 2024 19:06 | | YP/AJ | Ok |
| 9 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048460.D | 11 Oct 2024 19:42 | | YP/AJ | Ok,M |
| 10 | PB164054BL | PB164054BL | FD048461.D | 11 Oct 2024 21:31 | | YP/AJ | Ok |
| 11 | PB164054BS | PB164054BS | FD048462.D | 11 Oct 2024 22:07 | | YP/AJ | Ok,M |
| 12 | PB164054BSD | PB164054BSD | FD048463.D | 11 Oct 2024 22:44 | | YP/AJ | Ok,M |
| 13 | P4368-01 | LOD-MDL-SOIL-01-QT | FD048464.D | 11 Oct 2024 23:21 | 2.5 PPM SOIL LOD | YP/AJ | Ok,M |
| 14 | P4368-01 | LOD-MDL-SOIL-01-QT | FD048465.D | 11 Oct 2024 23:58 | 4 PPM SOIL LOD | YP/AJ | Ok,M |
| 15 | P4368-02 | LOQ-SOIL-02-QT4-202 | FD048466.D | 12 Oct 2024 00:35 | 5 PPM SOIL LOQ | YP/AJ | Ok,M |
| 16 | P4258-03 | Chamberlain Ave | FD048467.D | 12 Oct 2024 01:12 | | YP/AJ | Ok |
| 17 | P4258-03D | P4258-03D | FD048468.D | 12 Oct 2024 01:50 | | YP/AJ | Ok |
| 18 | P4258-03MS | Chamberlain AveMS | FD048469.D | 12 Oct 2024 02:27 | FD048467.D | YP/AJ | Ok,M |

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Fax : 908 789 8922



**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD101124AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/11/2024 2:58:03 PM | | |
| Supervise By | Ankita | Supervise On | 10/14/2024 9:15:29 AM | | |
| SubDirectory | FD101124AR | 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 | P4258-03MSD | Chamberlain AveMSD | FD048470.D | 12 Oct 2024 03:04 | FD048467.D!FD048469.D | YP/AJ | Ok,M |
| 20 | I.BLK | I.BLK | FD048471.D | 12 Oct 2024 03:41 | | YP/AJ | Ok |
| 21 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048472.D | 12 Oct 2024 04:18 | | YP/AJ | Ok,M |

M : Manual Integration

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**EXTRACTION LOGPAGE**

PB164054

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | MNJDEP-EPH-7 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 10/11/2024 |
| **Matrix :** | Solid | | | **Extraction Start Time :** | 08:20 |
| **Weigh By:** | EH | **Extraction By:** | RJ | **Extraction End Date :** | 10/11/2024 |
| **Balance check:** | RJ | **Filter By:** | RJ | **Extraction End Time :** | 16:00 |
| **Balance ID:** | EX-SC-2 | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | N/A | **Hood ID:** | 3,7 | **Supervisor By :** | rajesh |

**Extraction Method:** ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 100 PPM | PP23712 |
| Surrogate | 1.0ML | 100 PPM | PP23706 |
| Fractionation Surrogate | 1.0ML | 100 PPM | PP23704 |
| LOD | 0.25ML/0.4ML | 20 PPM | PP23539 |
| LOQ | 0.5ML | 20 PPM | PP23539 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| MeCl2/Acetone/1:1 | N/A | EP2538 |
| Baked Na2SO4 | N/A | EP2543 |
| 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 |
|---|---|---|
| 10/11/24 | RP (Ext. Lab) | Y. Pestipeb. |
| 16:05 | **Preparation Group** | **Analysis Group** |

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**EXTRACTION LOGPAGE**

**PrepBatch ID : PB164054**

**Analytical Method:** MNJDEP-EPH-7

**Concentration Date:** 10/11/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB164054BL | PB164054BL | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | | | U5-1 |
| PB164054BS | PB164054BS | EPH | 30.01 | N/A | ritesh | Evelyn | 2 | | | 2 |
| PB164054BSD | PB164054BSD | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | | | 3 |
| P4258-03 | CHAMBERLAIN AVE | EPH | 30.04 | N/A | ritesh | Evelyn | 2 | A | | 4 |
| P4258-03DUP | CHAMBERLAIN AVEDUP | EPH | 30.02 | N/A | ritesh | Evelyn | 2 | A | | 5 |
| P4258-03MS | CHAMBERLAIN AVEMS | EPH | 30.07 | N/A | ritesh | Evelyn | 2 | A | | 6 |
| P4258-03MSD | CHAMBERLAIN AVEMSD | EPH | 30.09 | N/A | ritesh | Evelyn | 2 | A | | U6-1 |
| P4368-01 | LOD-MDL-SOIL-01-QT4-2024 0.25 ML | EPH | 30.01 | N/A | ritesh | Evelyn | 2 | | | 2 |
| P4368-02 | LOQ-SOIL-02-QT4-2024 0.5 ML | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | | | 3 |
| | LOD 0.4 ML | | | 1 | 1 | 1 | 2 | | | 4 |

* **Extracts relinquished on the same date as received.**

10/11/24

104034
8:20

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P4258E **WorkList ID :** 184333 **Department :** Extraction **Date :** 10-11-2024 08:09:17

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4258-03 | Chamberlain Ave | Solid | EPH | Cool 4 deg C | ROMA02 | K21 | 10/01/2024 | NJEPH |
| P4368-01 | LOD-MDL-SOIL-01-QT4-2024 | Solid | EPH | Cool 4 deg C | CHEM02 | QA Of | 10/09/2024 | NJEPH |
| P4368-02 | LOQ-SOIL-02-QT4-2024 | Solid | EPH | Cool 4 deg C | CHEM02 | QA Of | 10/09/2024 | NJEPH |

**Date/Time** 10/11/24 8:15
**Raw Sample Received by:** RJ (Cert Tech)
**Raw Sample Relinquished by:** JDCSM

**Date/Time** 10/11/24 8:40
**Raw Sample Received by:** JDCSM
**Raw Sample Relinquished by:** RJ (Cert Tech)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51,K11,K21 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-03** | **Chamberlain Ave** | **SOIL** | | | **10/01/24** | | | **10/01/24** |
| | | | Herbicide | 8151A | | 10/11/24 | 10/11/24 | |
| | | | PCB | 8082A | | 10/02/24 | 10/02/24 | |
| | | | Pesticide-TCL | 8081B | | 10/11/24 | 10/11/24 | |
| | | | EPH | NJEPH | | 10/11/24 | 10/12/24 | |
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP Herbicide | 8151A | | 10/03/24 | 10/04/24 | |
| | | | TCLP Pesticide | 8081B | | 10/03/24 | 10/03/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4258 **Order ID:** P4258

**Client:** Roman E&G Corp **Project ID:** Perth Amboy

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : Chamberlain Ave** | | | | | | | | |
| P4258-03 | Chamberlain Ave | SOIL | Aluminum | 5650 | | 2.62 | 5.43 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Arsenic | 2.05 | | 0.32 | 1.09 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Barium | 65.0 | | 0.70 | 5.43 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Beryllium | 0.95 | | 0.013 | 0.33 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Cadmium | 2.18 | | 0.017 | 0.33 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Calcium | 1430 | | 3.04 | 109 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Chromium | 12.2 | | 0.059 | 0.54 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Cobalt | 9.76 | | 0.063 | 1.63 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Copper | 23.0 | | 0.51 | 1.09 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Iron | 13800 | | 2.92 | 5.43 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Lead | 48.3 | | 0.16 | 0.65 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Magnesium | 2360 | | 3.73 | 109 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Manganese | 186 | | 0.077 | 1.09 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Mercury | 0.094 | | 0.0070 | 0.015 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Nickel | 24.3 | | 0.098 | 2.17 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Potassium | 722 | | 31.2 | 109 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Sodium | 105 | J | 39.2 | 109 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Vanadium | 17.6 | | 0.29 | 2.17 | mg/Kg |
| P4258-03 | Chamberlain Ave | SOIL | Zinc | 39.8 | | 0.12 | 2.17 | mg/Kg |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 86 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5650 | | 1 | 2.62 | 5.43 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 0.16 | UN | 1 | 0.16 | 2.72 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 2.05 | | 1 | 0.32 | 1.09 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 65.0 | | 1 | 0.70 | 5.43 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.95 | | 1 | 0.013 | 0.33 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 2.18 | | 1 | 0.017 | 0.33 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 1430 | | 1 | 3.04 | 109 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 12.2 | | 1 | 0.059 | 0.54 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 9.76 | | 1 | 0.063 | 1.63 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 23.0 | N | 1 | 0.51 | 1.09 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 13800 | | 1 | 2.92 | 5.43 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 48.3 | | 1 | 0.16 | 0.65 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 2360 | | 1 | 3.73 | 109 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 186 | | 1 | 0.077 | 1.09 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.094 | | 1 | 0.0070 | 0.015 | mg/Kg | 10/11/24 13:30 | 10/14/24 11:59 | SW7471B | |
| 7440-02-0 | Nickel | 24.3 | | 1 | 0.098 | 2.17 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 722 | N | 1 | 31.2 | 109 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.36 | UN | 1 | 0.36 | 1.09 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.057 | U | 1 | 0.057 | 0.54 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 105 | JN | 1 | 39.2 | 109 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.48 | U | 1 | 0.48 | 2.17 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 17.6 | N | 1 | 0.29 | 2.17 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 39.8 | N | 1 | 0.12 | 2.17 | mg/Kg | 10/11/24 09:05 | 10/14/24 15:05 | 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

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB36** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/14/2024 | 11:38 | LB132914 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB13** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/14/2024 | 11:43 | LB132914 |
| **CCB14** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/14/2024 | 12:13 | LB132914 |
| **CCB15** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/14/2024 | 12:41 | LB132914 |
| **CCB16** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/14/2024 | 13:12 | LB132914 |
| **CCB17** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/14/2024 | 13:39 | LB132914 |
| **CCB18** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/14/2024 | 14:06 | LB132914 |
| **CCB19** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/14/2024 | 14:34 | LB132914 |
| **CCB20** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/14/2024 | 15:01 | LB132914 |
| **CCB21** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/14/2024 | 15:17 | LB132914 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/14/2024 | 14:23 | LB132927 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/14/2024 | 14:23 | LB132927 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 14:23 | LB132927 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 14:23 | LB132927 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 14:23 | LB132927 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/14/2024 | 14:23 | LB132927 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 14:23 | LB132927 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 14:23 | LB132927 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 14:23 | LB132927 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 14:23 | LB132927 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 14:23 | LB132927 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/14/2024 | 14:47 | LB132927 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/14/2024 | 14:47 | LB132927 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 14:47 | LB132927 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 14:47 | LB132927 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 14:47 | LB132927 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/14/2024 | 14:47 | LB132927 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 14:47 | LB132927 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 14:47 | LB132927 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 14:47 | LB132927 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 14:47 | LB132927 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 14:47 | LB132927 |
| CCB02 | Aluminum | 100 | +/-100 | U | 100 | P | 10/14/2024 | 15:13 | LB132927 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/14/2024 | 15:13 | LB132927 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 15:13 | LB132927 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/14/2024 | 15:13 | LB132927 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 15:13 | LB132927 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 15:13 | LB132927 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 15:13 | LB132927 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/14/2024 | 15:13 | LB132927 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/14/2024 | 15:13 | LB132927 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 15:13 | LB132927 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/14/2024 | 15:13 | LB132927 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/14/2024 | 15:13 | LB132927 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 15:13 | LB132927 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 15:13 | LB132927 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 15:13 | LB132927 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 15:13 | LB132927 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 15:13 | LB132927 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/14/2024 | 15:13 | LB132927 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 15:13 | LB132927 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 15:13 | LB132927 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 15:13 | LB132927 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 15:13 | LB132927 |
| **CCB03** | Aluminum | 100 | +/-100 | U | 100 | P | 10/14/2024 | 16:07 | LB132927 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/14/2024 | 16:07 | LB132927 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 16:07 | LB132927 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 16:07 | LB132927 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 16:07 | LB132927 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/14/2024 | 16:07 | LB132927 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 16:07 | LB132927 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 16:07 | LB132927 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Silver | 1.36 | +/-10.0 | J | 10.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 16:07 | LB132927 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 16:07 | LB132927 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 16:07 | LB132927 |
| **CCB04** | Aluminum | 100 | +/-100 | U | 100 | P | 10/14/2024 | 17:11 | LB132927 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/14/2024 | 17:11 | LB132927 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 17:11 | LB132927 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/14/2024 | 17:11 | LB132927 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 17:11 | LB132927 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 17:11 | LB132927 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 17:11 | LB132927 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/14/2024 | 17:11 | LB132927 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/14/2024 | 17:11 | LB132927 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 17:11 | LB132927 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/14/2024 | 17:11 | LB132927 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/14/2024 | 17:11 | LB132927 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/14/2024 | 17:11 | LB132927 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 17:11 | LB132927 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 17:11 | LB132927 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 17:11 | LB132927 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 17:11 | LB132927 |
| | Silver | 1.36 | +/-10.0 | J | 10.0 | P | 10/14/2024 | 17:11 | LB132927 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 17:11 | LB132927 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 17:11 | LB132927 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 17:11 | LB132927 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 17:11 | LB132927 |
| CCB05 | Aluminum | 100 | +/-100 | U | 100 | P | 10/14/2024 | 18:04 | LB132927 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/14/2024 | 18:04 | LB132927 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 18:04 | LB132927 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 18:04 | LB132927 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 18:04 | LB132927 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/14/2024 | 18:04 | LB132927 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 18:04 | LB132927 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 18:04 | LB132927 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Silver | 1.27 | +/-10.0 | J | 10.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 18:04 | LB132927 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 18:04 | LB132927 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 18:04 | LB132927 |
| CCB06 | Aluminum | 100 | +/-100 | U | 100 | P | 10/14/2024 | 18:55 | LB132927 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/14/2024 | 18:55 | LB132927 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 18:55 | LB132927 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/14/2024 | 18:55 | LB132927 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 18:55 | LB132927 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 18:55 | LB132927 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 18:55 | LB132927 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/14/2024 | 18:55 | LB132927 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/14/2024 | 18:55 | LB132927 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 18:55 | LB132927 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/14/2024 | 18:55 | LB132927 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/14/2024 | 18:55 | LB132927 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 18:55 | LB132927 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 18:55 | LB132927 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 18:55 | LB132927 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 18:55 | LB132927 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 18:55 | LB132927 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/14/2024 | 18:55 | LB132927 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 18:55 | LB132927 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 18:55 | LB132927 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 18:55 | LB132927 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 18:55 | LB132927 |
| CCB07 | Aluminum | 100 | +/-100 | U | 100 | P | 10/14/2024 | 19:15 | LB132927 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/14/2024 | 19:15 | LB132927 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 19:15 | LB132927 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/14/2024 | 19:15 | LB132927 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 19:15 | LB132927 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/14/2024 | 19:15 | LB132927 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 19:15 | LB132927 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 19:15 | LB132927 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Silver | 1.22 | +/-10.0 | J | 10.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/14/2024 | 19:15 | LB132927 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 19:15 | LB132927 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/14/2024 | 19:15 | LB132927 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/15/2024 | 11:41 | LB132951 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/15/2024 | 11:41 | LB132951 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 11:41 | LB132951 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 11:41 | LB132951 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 11:41 | LB132951 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/15/2024 | 11:41 | LB132951 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 11:41 | LB132951 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 11:41 | LB132951 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 11:41 | LB132951 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 11:41 | LB132951 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 11:41 | LB132951 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/15/2024 | 12:30 | LB132951 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/15/2024 | 12:30 | LB132951 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 12:30 | LB132951 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 12:30 | LB132951 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 12:30 | LB132951 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/15/2024 | 12:30 | LB132951 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 12:30 | LB132951 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 12:30 | LB132951 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 12:30 | LB132951 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 12:30 | LB132951 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 12:30 | LB132951 |
| CCB02 | Aluminum | 100 | +/-100 | U | 100 | P | 10/15/2024 | 13:27 | LB132951 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/15/2024 | 13:27 | LB132951 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 13:27 | LB132951 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/15/2024 | 13:27 | LB132951 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 13:27 | LB132951 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 13:27 | LB132951 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 13:27 | LB132951 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 13:27 | LB132951 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/15/2024 | 13:27 | LB132951 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 13:27 | LB132951 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/15/2024 | 13:27 | LB132951 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/15/2024 | 13:27 | LB132951 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 13:27 | LB132951 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 13:27 | LB132951 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 13:27 | LB132951 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 13:27 | LB132951 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 13:27 | LB132951 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/15/2024 | 13:27 | LB132951 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 13:27 | LB132951 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 13:27 | LB132951 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 13:27 | LB132951 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 13:27 | LB132951 |
| **CCB03** | Aluminum | 100 | +/-100 | U | 100 | P | 10/15/2024 | 14:11 | LB132951 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/15/2024 | 14:11 | LB132951 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 14:11 | LB132951 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 14:11 | LB132951 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 14:11 | LB132951 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/15/2024 | 14:11 | LB132951 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 14:11 | LB132951 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 14:11 | LB132951 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 14:11 | LB132951 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 14:11 | LB132951 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 14:11 | LB132951 |
| **CCB04** | Aluminum | 100 | +/-100 | U | 100 | P | 10/15/2024 | 14:39 | LB132951 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/15/2024 | 14:39 | LB132951 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 14:39 | LB132951 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/15/2024 | 14:39 | LB132951 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 14:39 | LB132951 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 14:39 | LB132951 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 14:39 | LB132951 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 14:39 | LB132951 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/15/2024 | 14:39 | LB132951 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 14:39 | LB132951 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/15/2024 | 14:39 | LB132951 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/15/2024 | 14:39 | LB132951 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/15/2024 | 14:39 | LB132951 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 14:39 | LB132951 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 14:39 | LB132951 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 14:39 | LB132951 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 14:39 | LB132951 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 14:39 | LB132951 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 14:39 | LB132951 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 14:39 | LB132951 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 14:39 | LB132951 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 14:39 | LB132951 |
| CCB05 | Aluminum | 100 | +/-100 | U | 100 | P | 10/15/2024 | 15:30 | LB132951 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/15/2024 | 15:30 | LB132951 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 15:30 | LB132951 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 15:30 | LB132951 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 15:30 | LB132951 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/15/2024 | 15:30 | LB132951 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 15:30 | LB132951 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 15:30 | LB132951 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 15:30 | LB132951 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 15:30 | LB132951 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 15:30 | LB132951 |
| CCB06 | Aluminum | 100 | +/-100 | U | 100 | P | 10/15/2024 | 16:21 | LB132951 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/15/2024 | 16:21 | LB132951 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 16:21 | LB132951 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/15/2024 | 16:21 | LB132951 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 16:21 | LB132951 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 16:21 | LB132951 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 16:21 | LB132951 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/15/2024 | 16:21 | LB132951 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/15/2024 | 16:21 | LB132951 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 16:21 | LB132951 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/15/2024 | 16:21 | LB132951 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/15/2024 | 16:21 | LB132951 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 16:21 | LB132951 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 16:21 | LB132951 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 16:21 | LB132951 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 16:21 | LB132951 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 16:21 | LB132951 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 16:21 | LB132951 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 16:21 | LB132951 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 16:21 | LB132951 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 16:21 | LB132951 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 16:21 | LB132951 |
| CCB07 | Aluminum | 100 | +/-100 | U | 100 | P | 10/15/2024 | 17:18 | LB132951 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/15/2024 | 17:18 | LB132951 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 17:18 | LB132951 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 17:18 | LB132951 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 17:18 | LB132951 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/15/2024 | 17:18 | LB132951 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 17:18 | LB132951 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 17:18 | LB132951 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 17:18 | LB132951 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 17:18 | LB132951 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 17:18 | LB132951 |
| CCB08 | Aluminum | 100 | +/-100 | U | 100 | P | 10/15/2024 | 17:53 | LB132951 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/15/2024 | 17:53 | LB132951 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/15/2024 | 17:53 | LB132951 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/15/2024 | 17:53 | LB132951 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 17:53 | LB132951 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/15/2024 | 17:53 | LB132951 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 17:53 | LB132951 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 17:53 | LB132951 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/15/2024 | 17:53 | LB132951 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 17:53 | LB132951 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/15/2024 | 17:53 | LB132951 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/15/2024 | 17:53 | LB132951 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 17:53 | LB132951 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 17:53 | LB132951 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 17:53 | LB132951 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 17:53 | LB132951 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/15/2024 | 17:53 | LB132951 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/15/2024 | 17:53 | LB132951 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/15/2024 | 17:53 | LB132951 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 17:53 | LB132951 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 17:53 | LB132951 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/15/2024 | 17:53 | LB132951 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/18/2024 | 13:23 | LB133014 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/18/2024 | 13:23 | LB133014 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/18/2024 | 13:23 | LB133014 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/18/2024 | 13:23 | LB133014 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 13:23 | LB133014 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/18/2024 | 13:23 | LB133014 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 13:23 | LB133014 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 13:23 | LB133014 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 13:23 | LB133014 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 13:23 | LB133014 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 13:23 | LB133014 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/18/2024 | 14:05 | LB133014 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/18/2024 | 14:05 | LB133014 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/18/2024 | 14:05 | LB133014 |
| | Cadmium | 0.48 | +/-6.00 | J | 6.00 | P | 10/18/2024 | 14:05 | LB133014 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 14:05 | LB133014 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/18/2024 | 14:05 | LB133014 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 14:05 | LB133014 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 14:05 | LB133014 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 14:05 | LB133014 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 14:05 | LB133014 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 14:05 | LB133014 |
| CCB02 | Aluminum | 100 | +/-100 | U | 100 | P | 10/18/2024 | 14:57 | LB133014 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/18/2024 | 14:57 | LB133014 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 14:57 | LB133014 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/18/2024 | 14:57 | LB133014 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/18/2024 | 14:57 | LB133014 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/18/2024 | 14:57 | LB133014 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 14:57 | LB133014 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/18/2024 | 14:57 | LB133014 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/18/2024 | 14:57 | LB133014 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 14:57 | LB133014 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/18/2024 | 14:57 | LB133014 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/18/2024 | 14:57 | LB133014 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 14:57 | LB133014 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 14:57 | LB133014 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 14:57 | LB133014 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 14:57 | LB133014 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 14:57 | LB133014 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/18/2024 | 14:57 | LB133014 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 14:57 | LB133014 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 14:57 | LB133014 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 14:57 | LB133014 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 14:57 | LB133014 |
| **CCB03** | Aluminum | 100 | +/-100 | U | 100 | P | 10/18/2024 | 16:39 | LB133014 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/18/2024 | 16:39 | LB133014 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/18/2024 | 16:39 | LB133014 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/18/2024 | 16:39 | LB133014 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 16:39 | LB133014 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/18/2024 | 16:39 | LB133014 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 16:39 | LB133014 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 16:39 | LB133014 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 16:39 | LB133014 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 16:39 | LB133014 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 16:39 | LB133014 |
| **CCB04** | Aluminum | 100 | +/-100 | U | 100 | P | 10/18/2024 | 17:32 | LB133014 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 10/18/2024 | 17:32 | LB133014 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 17:32 | LB133014 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/18/2024 | 17:32 | LB133014 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 10/18/2024 | 17:32 | LB133014 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/18/2024 | 17:32 | LB133014 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 17:32 | LB133014 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/18/2024 | 17:32 | LB133014 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 10/18/2024 | 17:32 | LB133014 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 17:32 | LB133014 |
| | Iron | 100 | +/-100 | U | 100 | P | 10/18/2024 | 17:32 | LB133014 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/18/2024 | 17:32 | LB133014 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/18/2024 | 17:32 | LB133014 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 17:32 | LB133014 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 17:32 | LB133014 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 17:32 | LB133014 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/18/2024 | 17:32 | LB133014 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/18/2024 | 17:32 | LB133014 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 10/18/2024 | 17:32 | LB133014 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 17:32 | LB133014 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 17:32 | LB133014 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/18/2024 | 17:32 | LB133014 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Instrument:** CV1

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164114BL** | | **SOLID** | | **Batch Number:** | **PB164114** | | **Prep Date:** | **10/11/2024** | |
| | Mercury | 0.013 | <0.013 | U | 0.013 | CV | 10/14/2024 | 11:54 | LB132914 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Instrument:** P4

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164065BL** | | **SOLID** | | **Batch Number:** | **PB164065** | | **Prep Date:** | **10/11/2024** | |
| | Aluminum | 4.07 | <4.07 | U | 4.07 | P | 10/15/2024 | 14:26 | LB132951 |
| | Antimony | 2.03 | <2.03 | U | 2.03 | P | 10/15/2024 | 14:26 | LB132951 |
| | Arsenic | 0.81 | <0.81 | U | 0.81 | P | 10/15/2024 | 14:26 | LB132951 |
| | Barium | 4.07 | <4.07 | U | 4.07 | P | 10/15/2024 | 14:26 | LB132951 |
| | Beryllium | 0.24 | <0.24 | U | 0.24 | P | 10/15/2024 | 14:26 | LB132951 |
| | Cadmium | 0.24 | <0.24 | U | 0.24 | P | 10/15/2024 | 14:26 | LB132951 |
| | Calcium | 81.3 | <81.3 | U | 81.3 | P | 10/15/2024 | 14:26 | LB132951 |
| | Chromium | 0.41 | <0.41 | U | 0.41 | P | 10/15/2024 | 14:26 | LB132951 |
| | Cobalt | 1.22 | <1.22 | U | 1.22 | P | 10/15/2024 | 14:26 | LB132951 |
| | Copper | 0.81 | <0.81 | U | 0.81 | P | 10/15/2024 | 14:26 | LB132951 |
| | Iron | 4.07 | <4.07 | U | 4.07 | P | 10/15/2024 | 14:26 | LB132951 |
| | Lead | 0.49 | <0.49 | U | 0.49 | P | 10/15/2024 | 14:26 | LB132951 |
| | Magnesium | 81.3 | <81.3 | U | 81.3 | P | 10/15/2024 | 14:26 | LB132951 |
| | Manganese | 0.81 | <0.81 | U | 0.81 | P | 10/15/2024 | 14:26 | LB132951 |
| | Nickel | 1.63 | <1.63 | U | 1.63 | P | 10/15/2024 | 14:26 | LB132951 |
| | Potassium | 81.3 | <81.3 | U | 81.3 | P | 10/15/2024 | 14:26 | LB132951 |
| | Selenium | 0.81 | <0.81 | U | 0.81 | P | 10/15/2024 | 14:26 | LB132951 |
| | Silver | 0.41 | <0.41 | U | 0.41 | P | 10/15/2024 | 14:26 | LB132951 |
| | Sodium | 81.3 | <81.3 | U | 81.3 | P | 10/15/2024 | 14:26 | LB132951 |
| | Thallium | 1.63 | <1.63 | U | 1.63 | P | 10/15/2024 | 14:26 | LB132951 |
| | Vanadium | 1.63 | <1.63 | U | 1.63 | P | 10/15/2024 | 14:26 | LB132951 |
| | Zinc | 1.63 | <1.63 | U | 1.63 | P | 10/15/2024 | 14:26 | LB132951 |

# METAL CALIBRATION DATA

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV36 | Mercury | 4.25 | 4.0 | 106 | 90 - 110 | CV | 10/14/2024 | 11:33 | LB132914 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV13 | Mercury | 4.95 | 5.0 | 99 | 90 - 110 | CV | 10/14/2024 | 11:40 | LB132914 |
| CCV14 | Mercury | 4.81 | 5.0 | 96 | 90 - 110 | CV | 10/14/2024 | 12:10 | LB132914 |
| CCV15 | Mercury | 4.91 | 5.0 | 98 | 90 - 110 | CV | 10/14/2024 | 12:39 | LB132914 |
| CCV16 | Mercury | 4.98 | 5.0 | 100 | 90 - 110 | CV | 10/14/2024 | 13:09 | LB132914 |
| CCV17 | Mercury | 4.88 | 5.0 | 98 | 90 - 110 | CV | 10/14/2024 | 13:37 | LB132914 |
| CCV18 | Mercury | 5.09 | 5.0 | 102 | 90 - 110 | CV | 10/14/2024 | 14:04 | LB132914 |
| CCV19 | Mercury | 4.97 | 5.0 | 100 | 90 - 110 | CV | 10/14/2024 | 14:31 | LB132914 |
| CCV20 | Mercury | 5.08 | 5.0 | 102 | 90 - 110 | CV | 10/14/2024 | 14:59 | LB132914 |
| CCV21 | Mercury | 4.79 | 5.0 | 96 | 90 - 110 | CV | 10/14/2024 | 15:15 | LB132914 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 2500 | 2500 | 100 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Antimony | 1000 | 1000 | 100 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Arsenic | 942 | 1000 | 94 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Barium | 491 | 520 | 94 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Beryllium | 504 | 510 | 99 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Cadmium | 476 | 510 | 93 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Calcium | 9910 | 10000 | 99 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Chromium | 527 | 520 | 101 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Cobalt | 507 | 520 | 98 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Copper | 523 | 510 | 103 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Iron | 9670 | 10000 | 97 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Lead | 955 | 1000 | 96 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Magnesium | 5900 | 6000 | 98 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Manganese | 503 | 520 | 97 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Nickel | 510 | 530 | 96 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Potassium | 9500 | 9900 | 96 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Selenium | 980 | 1000 | 98 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Silver | 252 | 250 | 101 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Sodium | 9030 | 10000 | 90 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Thallium | 1020 | 1000 | 102 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Vanadium | 504 | 500 | 101 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |
| | Zinc | 1020 | 1000 | 102 | 90 - 110 | P | 10/14/2024 | 14:06 | LB132927 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 10/14/2024 | 14:18 | LB132927 |
| | Antimony | 51.8 | 50.0 | 104 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Arsenic | 18.9 | 20.0 | 95 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Barium | 94.5 | 100 | 94 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Beryllium | 6.30 | 6.0 | 105 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Cadmium | 6.12 | 6.0 | 102 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Calcium | 2040 | 2000 | 102 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Chromium | 9.77 | 10.0 | 98 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Cobalt | 30.6 | 30.0 | 102 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Copper | 22.5 | 20.0 | 113 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Iron | 95.8 | 100 | 96 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Lead | 10.2 | 12.0 | 85 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Magnesium | 2180 | 2000 | 109 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Manganese | 20.0 | 20.0 | 100 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Nickel | 40.8 | 40.0 | 102 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Potassium | 1900 | 2000 | 95 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Selenium | 19.4 | 20.0 | 97 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Silver | 10.8 | 10.0 | 108 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Sodium | 1620 | 2000 | 81 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Thallium | 40.6 | 40.0 | 102 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Vanadium | 40.3 | 40.0 | 101 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |
| | Zinc | 41.3 | 40.0 | 103 | 80 - 120 | P | 10/14/2024 | 14:18 | LB132927 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 10400 | 10000 | 104 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Antimony | 5230 | 5000 | 104 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Arsenic | 5140 | 5000 | 103 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Barium | 9520 | 10000 | 95 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Beryllium | 250 | 250 | 100 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Cadmium | 2510 | 2500 | 100 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Calcium | 25300 | 25000 | 101 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Cobalt | 2530 | 2500 | 101 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Copper | 1300 | 1250 | 104 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Iron | 4800 | 5000 | 96 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Lead | 5090 | 5000 | 102 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Magnesium | 25600 | 25000 | 102 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Manganese | 2400 | 2500 | 96 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Nickel | 2540 | 2500 | 102 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Potassium | 24600 | 25000 | 99 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Selenium | 5320 | 5000 | 106 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Sodium | 23000 | 25000 | 92 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Thallium | 4530 | 5000 | 90 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Vanadium | 2570 | 2500 | 103 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| | Zinc | 2580 | 2500 | 103 | 90 - 110 | P | 10/14/2024 | 14:43 | LB132927 |
| CCV02 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Antimony | 5000 | 5000 | 100 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Arsenic | 4850 | 5000 | 97 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Barium | 9110 | 10000 | 91 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Beryllium | 246 | 250 | 98 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Cadmium | 2390 | 2500 | 96 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Calcium | 24300 | 25000 | 97 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Chromium | 990 | 1000 | 99 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Cobalt | 2410 | 2500 | 96 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Copper | 1240 | 1250 | 100 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Iron | 4550 | 5000 | 91 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Lead | 4830 | 5000 | 96 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 24700 | 25000 | 99 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Manganese | 2300 | 2500 | 92 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Nickel | 2410 | 2500 | 96 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Potassium | 23200 | 25000 | 93 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Selenium | 5060 | 5000 | 101 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Sodium | 25500 | 25000 | 102 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Thallium | 5390 | 5000 | 108 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Vanadium | 2480 | 2500 | 99 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| | Zinc | 2440 | 2500 | 98 | 90 - 110 | P | 10/14/2024 | 15:09 | LB132927 |
| CCV03 | Aluminum | 9640 | 10000 | 96 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Antimony | 4920 | 5000 | 98 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Arsenic | 4690 | 5000 | 94 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Barium | 10600 | 10000 | 106 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Beryllium | 227 | 250 | 91 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Cadmium | 2250 | 2500 | 90 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Calcium | 23000 | 25000 | 92 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Chromium | 945 | 1000 | 94 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Cobalt | 2300 | 2500 | 92 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Copper | 1200 | 1250 | 96 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Iron | 4510 | 5000 | 90 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Lead | 4610 | 5000 | 92 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Magnesium | 23300 | 25000 | 93 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Manganese | 2710 | 2500 | 108 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Nickel | 2300 | 2500 | 92 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Potassium | 23600 | 25000 | 94 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Selenium | 4920 | 5000 | 98 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Silver | 1170 | 1250 | 93 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Sodium | 25600 | 25000 | 102 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Thallium | 5200 | 5000 | 104 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Vanadium | 2370 | 2500 | 95 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| | Zinc | 2390 | 2500 | 96 | 90 - 110 | P | 10/14/2024 | 16:03 | LB132927 |
| CCV04 | Aluminum | 9730 | 10000 | 97 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Antimony | 4940 | 5000 | 99 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 4710 | 5000 | 94 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Barium | 10500 | 10000 | 105 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Beryllium | 231 | 250 | 92 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Cadmium | 2260 | 2500 | 90 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Calcium | 23100 | 25000 | 92 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Chromium | 953 | 1000 | 95 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Cobalt | 2310 | 2500 | 93 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Copper | 1210 | 1250 | 96 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Iron | 4530 | 5000 | 90 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Lead | 4630 | 5000 | 92 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Magnesium | 23400 | 25000 | 94 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Manganese | 2700 | 2500 | 108 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Nickel | 2310 | 2500 | 92 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Potassium | 23500 | 25000 | 94 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Selenium | 4960 | 5000 | 99 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Silver | 1180 | 1250 | 94 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Sodium | 25300 | 25000 | 101 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Thallium | 5240 | 5000 | 105 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Vanadium | 2380 | 2500 | 95 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| | Zinc | 2370 | 2500 | 95 | 90 - 110 | P | 10/14/2024 | 17:06 | LB132927 |
| CCV05 | Aluminum | 9870 | 10000 | 99 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Antimony | 5040 | 5000 | 101 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Arsenic | 4810 | 5000 | 96 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Barium | 10500 | 10000 | 105 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Beryllium | 233 | 250 | 93 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Cadmium | 2310 | 2500 | 92 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Calcium | 23500 | 25000 | 94 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Chromium | 977 | 1000 | 98 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Cobalt | 2360 | 2500 | 94 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Copper | 1230 | 1250 | 98 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Iron | 4500 | 5000 | 90 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Lead | 4720 | 5000 | 94 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Magnesium | 23900 | 25000 | 96 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Manganese | 2720 | 2500 | 109 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 2360 | 2500 | 94 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Potassium | 23400 | 25000 | 94 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Selenium | 5080 | 5000 | 102 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Silver | 1190 | 1250 | 95 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Sodium | 24900 | 25000 | 100 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Thallium | 5080 | 5000 | 102 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Vanadium | 2420 | 2500 | 97 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| | Zinc | 2280 | 2500 | 91 | 90 - 110 | P | 10/14/2024 | 18:00 | LB132927 |
| CCV06 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Antimony | 4960 | 5000 | 99 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Arsenic | 4770 | 5000 | 95 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Barium | 9960 | 10000 | 100 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Beryllium | 248 | 250 | 99 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Cadmium | 2350 | 2500 | 94 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Calcium | 24000 | 25000 | 96 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Cobalt | 2400 | 2500 | 96 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Copper | 1220 | 1250 | 97 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Iron | 4510 | 5000 | 90 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Lead | 4800 | 5000 | 96 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Magnesium | 24800 | 25000 | 99 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Manganese | 2750 | 2500 | 110 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Nickel | 2390 | 2500 | 96 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Potassium | 22800 | 25000 | 91 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Selenium | 4980 | 5000 | 100 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Silver | 1210 | 1250 | 97 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Sodium | 24300 | 25000 | 97 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Thallium | 5220 | 5000 | 104 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Vanadium | 2450 | 2500 | 98 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| | Zinc | 2430 | 2500 | 97 | 90 - 110 | P | 10/14/2024 | 18:51 | LB132927 |
| CCV07 | Aluminum | 9940 | 10000 | 99 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Antimony | 5030 | 5000 | 100 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Arsenic | 4870 | 5000 | 97 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 237 | 250 | 95 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Cadmium | 2380 | 2500 | 95 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Calcium | 24000 | 25000 | 96 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Chromium | 997 | 1000 | 100 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Cobalt | 2420 | 2500 | 97 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Copper | 1240 | 1250 | 99 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Iron | 4570 | 5000 | 91 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Lead | 4860 | 5000 | 97 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Magnesium | 24500 | 25000 | 98 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Manganese | 2730 | 2500 | 109 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Nickel | 2420 | 2500 | 97 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Potassium | 23400 | 25000 | 94 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Selenium | 5100 | 5000 | 102 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Sodium | 24900 | 25000 | 99 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Thallium | 5320 | 5000 | 106 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Vanadium | 2460 | 2500 | 98 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |
| | Zinc | 2430 | 2500 | 97 | 90 - 110 | P | 10/14/2024 | 19:11 | LB132927 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 2580 | 2500 | 103 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Antimony | 996 | 1000 | 100 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Arsenic | 959 | 1000 | 96 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Barium | 517 | 520 | 99 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Beryllium | 510 | 510 | 100 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Cadmium | 485 | 510 | 95 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Calcium | 10300 | 10000 | 102 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Chromium | 534 | 520 | 103 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Cobalt | 518 | 520 | 100 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Copper | 530 | 510 | 104 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Iron | 10100 | 10000 | 101 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Lead | 967 | 1000 | 97 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Magnesium | 5970 | 6000 | 100 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Manganese | 524 | 520 | 101 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Nickel | 520 | 530 | 98 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Potassium | 9920 | 9900 | 100 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Selenium | 969 | 1000 | 97 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Silver | 259 | 250 | 104 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Sodium | 9660 | 10000 | 97 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Thallium | 972 | 1000 | 97 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Vanadium | 502 | 500 | 100 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |
| | Zinc | 1050 | 1000 | 105 | 90 - 110 | P | 10/15/2024 | 11:24 | LB132951 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 10/15/2024 | 11:37 | LB132951 |
| | Antimony | 49.6 | 50.0 | 99 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Arsenic | 20.5 | 20.0 | 102 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Barium | 98.7 | 100 | 99 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Beryllium | 6.08 | 6.0 | 101 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Cadmium | 5.92 | 6.0 | 99 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Calcium | 2040 | 2000 | 102 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Chromium | 9.81 | 10.0 | 98 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Cobalt | 29.8 | 30.0 | 99 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Copper | 22.5 | 20.0 | 112 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Iron | 101 | 100 | 101 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Lead | 12.0 | 12.0 | 100 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Magnesium | 2170 | 2000 | 108 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Manganese | 21.0 | 20.0 | 105 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Nickel | 39.6 | 40.0 | 99 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Potassium | 1900 | 2000 | 95 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Selenium | 18.3 | 20.0 | 92 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Silver | 11.6 | 10.0 | 116 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Sodium | 1890 | 2000 | 95 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Thallium | 37.6 | 40.0 | 94 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Vanadium | 40.1 | 40.0 | 100 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |
| | Zinc | 43.6 | 40.0 | 109 | 80 - 120 | P | 10/15/2024 | 11:37 | LB132951 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 10300 | 10000 | 103 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Antimony | 5080 | 5000 | 102 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Arsenic | 5030 | 5000 | 101 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Barium | 10300 | 10000 | 102 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Beryllium | 254 | 250 | 102 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Cadmium | 2470 | 2500 | 99 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Calcium | 25500 | 25000 | 102 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Chromium | 1010 | 1000 | 101 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Cobalt | 2470 | 2500 | 99 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Copper | 1270 | 1250 | 101 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Iron | 5020 | 5000 | 100 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Lead | 4930 | 5000 | 99 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Magnesium | 25400 | 25000 | 101 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Manganese | 2540 | 2500 | 101 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Nickel | 2470 | 2500 | 99 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Potassium | 25400 | 25000 | 102 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Selenium | 5080 | 5000 | 102 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Silver | 1270 | 1250 | 102 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Sodium | 25000 | 25000 | 100 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Thallium | 5060 | 5000 | 101 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Vanadium | 2580 | 2500 | 103 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| | Zinc | 2590 | 2500 | 104 | 90 - 110 | P | 10/15/2024 | 12:26 | LB132951 |
| CCV02 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Antimony | 4990 | 5000 | 100 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Arsenic | 4920 | 5000 | 98 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Barium | 9960 | 10000 | 100 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Beryllium | 236 | 250 | 94 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Cadmium | 2380 | 2500 | 95 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Calcium | 24600 | 25000 | 98 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Chromium | 962 | 1000 | 96 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Cobalt | 2390 | 2500 | 96 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Copper | 1240 | 1250 | 99 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Iron | 4850 | 5000 | 97 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Lead | 4760 | 5000 | 95 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 24200 | 25000 | 97 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Manganese | 2430 | 2500 | 97 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Nickel | 2390 | 2500 | 96 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Potassium | 24600 | 25000 | 99 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Selenium | 5000 | 5000 | 100 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Silver | 1210 | 1250 | 97 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Sodium | 24000 | 25000 | 96 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Thallium | 4870 | 5000 | 97 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Vanadium | 2510 | 2500 | 100 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| | Zinc | 2460 | 2500 | 98 | 90 - 110 | P | 10/15/2024 | 13:23 | LB132951 |
| CCV03 | Aluminum | 9810 | 10000 | 98 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Antimony | 4830 | 5000 | 97 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Arsenic | 4770 | 5000 | 96 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Barium | 9670 | 10000 | 97 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Beryllium | 237 | 250 | 95 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Cadmium | 2320 | 2500 | 93 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Calcium | 23800 | 25000 | 95 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Chromium | 929 | 1000 | 93 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Cobalt | 2320 | 2500 | 93 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Copper | 1200 | 1250 | 96 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Iron | 4530 | 5000 | 91 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Lead | 4630 | 5000 | 93 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Magnesium | 23700 | 25000 | 95 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Manganese | 2380 | 2500 | 95 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Nickel | 2320 | 2500 | 93 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Potassium | 23300 | 25000 | 93 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Selenium | 4840 | 5000 | 97 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Silver | 1170 | 1250 | 94 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Sodium | 22800 | 25000 | 91 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Thallium | 4780 | 5000 | 96 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Vanadium | 2430 | 2500 | 97 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| | Zinc | 2400 | 2500 | 96 | 90 - 110 | P | 10/15/2024 | 14:07 | LB132951 |
| CCV04 | Aluminum | 10300 | 10000 | 103 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Antimony | 4810 | 5000 | 96 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 4720 | 5000 | 94 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Beryllium | 255 | 250 | 102 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Cadmium | 2320 | 2500 | 93 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Calcium | 25100 | 25000 | 100 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Chromium | 961 | 1000 | 96 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Cobalt | 2330 | 2500 | 93 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Copper | 1200 | 1250 | 96 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Iron | 4690 | 5000 | 94 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Lead | 4650 | 5000 | 93 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Magnesium | 25000 | 25000 | 100 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Manganese | 2520 | 2500 | 101 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Nickel | 2330 | 2500 | 93 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Potassium | 24000 | 25000 | 96 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Selenium | 4740 | 5000 | 95 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Silver | 1220 | 1250 | 97 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Sodium | 23500 | 25000 | 94 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Thallium | 4740 | 5000 | 95 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Vanadium | 2550 | 2500 | 102 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| | Zinc | 2470 | 2500 | 99 | 90 - 110 | P | 10/15/2024 | 14:35 | LB132951 |
| CCV05 | Aluminum | 9830 | 10000 | 98 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Antimony | 4880 | 5000 | 98 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Arsenic | 4810 | 5000 | 96 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Barium | 9850 | 10000 | 98 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Beryllium | 236 | 250 | 95 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Cadmium | 2370 | 2500 | 95 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Calcium | 24300 | 25000 | 97 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Chromium | 949 | 1000 | 95 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Cobalt | 2370 | 2500 | 95 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Copper | 1220 | 1250 | 97 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Iron | 4740 | 5000 | 95 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Lead | 4740 | 5000 | 95 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Magnesium | 24000 | 25000 | 96 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Manganese | 2410 | 2500 | 96 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 2370 | 2500 | 95 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Potassium | 24000 | 25000 | 96 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Selenium | 4850 | 5000 | 97 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Sodium | 23200 | 25000 | 93 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Thallium | 4790 | 5000 | 96 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Vanadium | 2460 | 2500 | 98 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| | Zinc | 2440 | 2500 | 98 | 90 - 110 | P | 10/15/2024 | 15:26 | LB132951 |
| CCV06 | Aluminum | 9870 | 10000 | 99 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Antimony | 4840 | 5000 | 97 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Arsenic | 4780 | 5000 | 96 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Barium | 9880 | 10000 | 99 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Beryllium | 250 | 250 | 100 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Cadmium | 2350 | 2500 | 94 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Calcium | 24300 | 25000 | 97 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Chromium | 951 | 1000 | 95 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Cobalt | 2360 | 2500 | 94 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Copper | 1210 | 1250 | 97 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Iron | 4620 | 5000 | 92 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Lead | 4710 | 5000 | 94 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Magnesium | 24300 | 25000 | 97 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Manganese | 2440 | 2500 | 97 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Nickel | 2360 | 2500 | 94 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Potassium | 23100 | 25000 | 92 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Selenium | 4820 | 5000 | 96 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Sodium | 22600 | 25000 | 90 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Thallium | 4940 | 5000 | 99 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Vanadium | 2460 | 2500 | 98 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| | Zinc | 2290 | 2500 | 92 | 90 - 110 | P | 10/15/2024 | 16:17 | LB132951 |
| CCV07 | Aluminum | 9910 | 10000 | 99 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Antimony | 5000 | 5000 | 100 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Arsenic | 4940 | 5000 | 99 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Barium | 9740 | 10000 | 97 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 10/15/2024 | 17:14 | LB132951 |
| | Cadmium | 2400 | 2500 | 96 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Calcium | 24200 | 25000 | 97 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Chromium | 948 | 1000 | 95 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Cobalt | 2400 | 2500 | 96 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Copper | 1240 | 1250 | 99 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Iron | 4590 | 5000 | 92 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Lead | 4800 | 5000 | 96 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Magnesium | 24100 | 25000 | 97 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Manganese | 2420 | 2500 | 97 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Nickel | 2410 | 2500 | 96 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Potassium | 22900 | 25000 | 92 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Selenium | 5020 | 5000 | 100 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Sodium | 26100 | 25000 | 104 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Thallium | 4970 | 5000 | 99 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Vanadium | 2470 | 2500 | 99 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| | Zinc | 2590 | 2500 | 104 | 90 - 110 | P | 10/15/2024 | 17:14 | LB132951 |
| CCV08 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Antimony | 4980 | 5000 | 100 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Arsenic | 4880 | 5000 | 98 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Barium | 9900 | 10000 | 99 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Beryllium | 242 | 250 | 97 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Cadmium | 2370 | 2500 | 95 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Calcium | 24400 | 25000 | 98 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Chromium | 968 | 1000 | 97 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Cobalt | 2380 | 2500 | 95 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Copper | 1230 | 1250 | 99 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Iron | 4820 | 5000 | 96 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Lead | 4750 | 5000 | 95 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Magnesium | 24300 | 25000 | 97 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Manganese | 2430 | 2500 | 97 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Nickel | 2380 | 2500 | 95 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Potassium | 23900 | 25000 | 96 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 4960 | 5000 | 99 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Silver | 1220 | 1250 | 98 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Sodium | 23200 | 25000 | 93 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Thallium | 4810 | 5000 | 96 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Vanadium | 2510 | 2500 | 100 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |
| | Zinc | 2700 | 2500 | 108 | 90 - 110 | P | 10/15/2024 | 17:49 | LB132951 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 2330 | 2500 | 93 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Antimony | 1020 | 1000 | 102 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Arsenic | 1030 | 1000 | 103 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Barium | 498 | 520 | 96 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Beryllium | 504 | 510 | 99 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Cadmium | 517 | 510 | 101 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Calcium | 9990 | 10000 | 100 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Chromium | 551 | 520 | 106 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Cobalt | 533 | 520 | 103 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Copper | 544 | 510 | 107 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Iron | 10500 | 10000 | 104 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Lead | 1030 | 1000 | 103 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Magnesium | 5790 | 6000 | 96 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Manganese | 512 | 520 | 98 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Nickel | 536 | 530 | 101 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Potassium | 10300 | 9900 | 104 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Selenium | 1030 | 1000 | 103 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Silver | 269 | 250 | 108 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Sodium | 10100 | 10000 | 101 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Thallium | 1080 | 1000 | 108 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Vanadium | 486 | 500 | 97 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |
| | Zinc | 1070 | 1000 | 107 | 90 - 110 | P | 10/18/2024 | 13:08 | LB133014 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 95.8 | 100 | 96 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Antimony | 47.7 | 50.0 | 95 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Arsenic | 19.3 | 20.0 | 97 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Barium | 92.1 | 100 | 92 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Beryllium | 5.87 | 6.0 | 98 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Cadmium | 5.61 | 6.0 | 94 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Calcium | 1900 | 2000 | 95 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Chromium | 9.84 | 10.0 | 98 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Cobalt | 28.9 | 30.0 | 96 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Copper | 21.7 | 20.0 | 108 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Iron | 105 | 100 | 105 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Lead | 14.2 | 12.0 | 118 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Magnesium | 2010 | 2000 | 100 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Manganese | 19.0 | 20.0 | 95 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Nickel | 38.7 | 40.0 | 97 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Potassium | 1920 | 2000 | 96 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Selenium | 17.4 | 20.0 | 87 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Silver | 11.8 | 10.0 | 118 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Sodium | 1880 | 2000 | 94 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Thallium | 39.2 | 40.0 | 98 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Vanadium | 37.8 | 40.0 | 94 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |
| | Zinc | 41.1 | 40.0 | 103 | 80 - 120 | P | 10/18/2024 | 13:13 | LB133014 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 9900 | 10000 | 99 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Antimony | 5110 | 5000 | 102 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Arsenic | 5310 | 5000 | 106 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Barium | 9920 | 10000 | 99 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Beryllium | 251 | 250 | 100 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Cadmium | 2620 | 2500 | 105 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Calcium | 25000 | 25000 | 100 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Cobalt | 2530 | 2500 | 101 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Iron | 5120 | 5000 | 102 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Lead | 5220 | 5000 | 104 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Magnesium | 25000 | 25000 | 100 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Manganese | 2480 | 2500 | 99 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Nickel | 2530 | 2500 | 101 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Potassium | 25400 | 25000 | 102 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Selenium | 5250 | 5000 | 105 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Silver | 1280 | 1250 | 103 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Sodium | 25200 | 25000 | 101 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Thallium | 5120 | 5000 | 102 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Vanadium | 2490 | 2500 | 100 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| | Zinc | 2560 | 2500 | 102 | 90 - 110 | P | 10/18/2024 | 14:00 | LB133014 |
| CCV02 | Aluminum | 9570 | 10000 | 96 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Antimony | 4850 | 5000 | 97 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Arsenic | 5040 | 5000 | 101 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Barium | 9490 | 10000 | 95 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Beryllium | 246 | 250 | 98 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Calcium | 24000 | 25000 | 96 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Cobalt | 2410 | 2500 | 96 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Copper | 1210 | 1250 | 96 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Iron | 5030 | 5000 | 100 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Lead | 5010 | 5000 | 100 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 24000 | 25000 | 96 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Manganese | 2390 | 2500 | 96 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Nickel | 2410 | 2500 | 96 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Potassium | 24900 | 25000 | 100 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Selenium | 4990 | 5000 | 100 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Sodium | 24800 | 25000 | 99 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Thallium | 5350 | 5000 | 107 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Vanadium | 2390 | 2500 | 96 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| | Zinc | 2500 | 2500 | 100 | 90 - 110 | P | 10/18/2024 | 14:53 | LB133014 |
| CCV03 | Aluminum | 9330 | 10000 | 93 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Antimony | 4690 | 5000 | 94 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Arsenic | 4920 | 5000 | 98 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Barium | 9220 | 10000 | 92 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Beryllium | 255 | 250 | 102 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Calcium | 23900 | 25000 | 96 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Chromium | 984 | 1000 | 98 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Cobalt | 2390 | 2500 | 96 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Copper | 1180 | 1250 | 94 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Iron | 4600 | 5000 | 92 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Lead | 4990 | 5000 | 100 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Magnesium | 23600 | 25000 | 94 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Manganese | 2290 | 2500 | 92 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Nickel | 2400 | 2500 | 96 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Potassium | 22500 | 25000 | 90 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Selenium | 4840 | 5000 | 97 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Sodium | 24500 | 25000 | 98 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Thallium | 5190 | 5000 | 104 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Vanadium | 2310 | 2500 | 92 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| | Zinc | 2360 | 2500 | 95 | 90 - 110 | P | 10/18/2024 | 16:05 | LB133014 |
| CCV04 | Aluminum | 9210 | 10000 | 92 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Antimony | 4730 | 5000 | 95 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 4890 | 5000 | 98 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Barium | 9280 | 10000 | 93 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Beryllium | 242 | 250 | 97 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Cadmium | 2420 | 2500 | 97 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Calcium | 23100 | 25000 | 92 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Chromium | 954 | 1000 | 95 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Cobalt | 2330 | 2500 | 93 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Copper | 1170 | 1250 | 94 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Iron | 4420 | 5000 | 88 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Lead | 4850 | 5000 | 97 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Magnesium | 22400 | 25000 | 90 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Manganese | 2230 | 2500 | 89 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Nickel | 2330 | 2500 | 93 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Potassium | 23500 | 25000 | 94 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Selenium | 4850 | 5000 | 97 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Sodium | 23300 | 25000 | 93 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Thallium | 5110 | 5000 | 102 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Vanadium | 2250 | 2500 | 90 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |
| | Zinc | 2370 | 2500 | 95 | 90 - 110 | P | 10/18/2024 | 17:28 | LB133014 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 0.19 | 0.2 | 93 | 40 - 160 | CV | 10/14/2024 | 11:45 | LB132914 |
| CRI01 | Aluminum | 105 | 100 | 105 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Antimony | 51.4 | 50.0 | 103 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Arsenic | 17.5 | 20.0 | 88 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Barium | 94.6 | 100 | 95 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Beryllium | 6.18 | 6.0 | 103 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Cadmium | 6.16 | 6.0 | 103 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Calcium | 2040 | 2000 | 102 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Chromium | 10.1 | 10.0 | 101 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Cobalt | 30.4 | 30.0 | 101 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Copper | 22.7 | 20.0 | 114 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Iron | 98.3 | 100 | 98 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Lead | 14.4 | 12.0 | 120 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Magnesium | 2180 | 2000 | 109 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Manganese | 19.6 | 20.0 | 98 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Nickel | 40.3 | 40.0 | 101 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Potassium | 1950 | 2000 | 98 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Selenium | 19.5 | 20.0 | 97 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Silver | 12.9 | 10.0 | 129 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Sodium | 1640 | 2000 | 82 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Thallium | 40.4 | 40.0 | 101 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Vanadium | 40.3 | 40.0 | 101 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| | Zinc | 41.8 | 40.0 | 104 | 40 - 160 | P | 10/14/2024 | 14:27 | LB132927 |
| CRI01 | Aluminum | 105 | 100 | 105 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Antimony | 50.1 | 50.0 | 100 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Arsenic | 20.1 | 20.0 | 100 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Barium | 97.7 | 100 | 98 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Beryllium | 6.07 | 6.0 | 101 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Cadmium | 5.91 | 6.0 | 98 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Calcium | 2020 | 2000 | 101 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Chromium | 10.2 | 10.0 | 102 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Cobalt | 29.9 | 30.0 | 100 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Copper | 22.3 | 20.0 | 111 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Iron | 105 | 100 | 106 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Lead | 14.6 | 12.0 | 122 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | Magnesium | 2150 | 2000 | 108 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Manganese | 20.8 | 20.0 | 104 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Nickel | 39.8 | 40.0 | 99 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Potassium | 1970 | 2000 | 98 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Selenium | 15.6 | 20.0 | 78 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Silver | 12.7 | 10.0 | 127 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Sodium | 1930 | 2000 | 97 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Thallium | 36.5 | 40.0 | 91 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Vanadium | 40.5 | 40.0 | 101 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| | Zinc | 43.5 | 40.0 | 109 | 40 - 160 | P | 10/15/2024 | 11:46 | LB132951 |
| CRI01 | Aluminum | 93.0 | 100 | 93 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Antimony | 48.2 | 50.0 | 96 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Arsenic | 20.0 | 20.0 | 100 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Barium | 92.1 | 100 | 92 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Beryllium | 5.98 | 6.0 | 100 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Cadmium | 5.44 | 6.0 | 91 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Calcium | 1910 | 2000 | 96 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Chromium | 9.88 | 10.0 | 99 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Cobalt | 28.8 | 30.0 | 96 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Copper | 21.7 | 20.0 | 108 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Iron | 105 | 100 | 105 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Lead | 12.8 | 12.0 | 107 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Magnesium | 2030 | 2000 | 102 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Manganese | 19.3 | 20.0 | 96 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Nickel | 38.5 | 40.0 | 96 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Potassium | 1980 | 2000 | 99 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Selenium | 17.9 | 20.0 | 89 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Silver | 12.4 | 10.0 | 124 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Sodium | 1940 | 2000 | 97 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Thallium | 38.6 | 40.0 | 97 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Vanadium | 37.5 | 40.0 | 94 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |
| | Zinc | 42.5 | 40.0 | 106 | 40 - 160 | P | 10/18/2024 | 13:27 | LB133014 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 261000 | 255000 | 102 | 216000 | 294000 | 10/14/2024 | 14:32 | LB132927 |
| | Antimony | -1.78 | | | -50 | 50 | 10/14/2024 | 14:32 | LB132927 |
| | Arsenic | 1.32 | | | -20 | 20 | 10/14/2024 | 14:32 | LB132927 |
| | Barium | 2.96 | 6.0 | 49 | -94 | 106 | 10/14/2024 | 14:32 | LB132927 |
| | Beryllium | 2.85 | | | -6 | 6 | 10/14/2024 | 14:32 | LB132927 |
| | Cadmium | 6.10 | 1.0 | 610 | -5 | 7 | 10/14/2024 | 14:32 | LB132927 |
| | Calcium | 239000 | 245000 | 98 | 208000 | 282000 | 10/14/2024 | 14:32 | LB132927 |
| | Chromium | 60.0 | 52.0 | 115 | 42 | 62 | 10/14/2024 | 14:32 | LB132927 |
| | Cobalt | 2.02 | | | -30 | 30 | 10/14/2024 | 14:32 | LB132927 |
| | Copper | 20.9 | 2.0 | 1045 | -18 | 22 | 10/14/2024 | 14:32 | LB132927 |
| | Iron | 98800 | 101000 | 98 | 85600 | 116500 | 10/14/2024 | 14:32 | LB132927 |
| | Lead | 9.31 | | | -12 | 12 | 10/14/2024 | 14:32 | LB132927 |
| | Magnesium | 262000 | 255000 | 103 | 216000 | 294000 | 10/14/2024 | 14:32 | LB132927 |
| | Manganese | -4.64 | 7.0 | 66 | -13 | 27 | 10/14/2024 | 14:32 | LB132927 |
| | Nickel | 3.34 | 2.0 | 167 | -38 | 42 | 10/14/2024 | 14:32 | LB132927 |
| | Potassium | 97.7 | | | 0 | 0 | 10/14/2024 | 14:32 | LB132927 |
| | Selenium | -19.4 | | | -20 | 20 | 10/14/2024 | 14:32 | LB132927 |
| | Silver | -4.61 | | | -10 | 10 | 10/14/2024 | 14:32 | LB132927 |
| | Sodium | -75.8 | | | 0 | 0 | 10/14/2024 | 14:32 | LB132927 |
| | Thallium | -2.29 | | | -40 | 40 | 10/14/2024 | 14:32 | LB132927 |
| | Vanadium | 9.92 | | | -40 | 40 | 10/14/2024 | 14:32 | LB132927 |
| | Zinc | 4.46 | | | -40 | 40 | 10/14/2024 | 14:32 | LB132927 |
| ICSAB01 | Aluminum | 255000 | 247000 | 103 | 209000 | 285000 | 10/14/2024 | 14:39 | LB132927 |
| | Antimony | 631 | 618 | 102 | 525 | 711 | 10/14/2024 | 14:39 | LB132927 |
| | Arsenic | 97.9 | 104 | 94 | 88.4 | 120 | 10/14/2024 | 14:39 | LB132927 |
| | Barium | 467 | 537 | 87 | 437 | 637 | 10/14/2024 | 14:39 | LB132927 |
| | Beryllium | 482 | 495 | 97 | 420 | 570 | 10/14/2024 | 14:39 | LB132927 |
| | Cadmium | 947 | 972 | 97 | 826 | 1120 | 10/14/2024 | 14:39 | LB132927 |
| | Calcium | 233000 | 235000 | 99 | 199000 | 271000 | 10/14/2024 | 14:39 | LB132927 |
| | Chromium | 577 | 542 | 106 | 460 | 624 | 10/14/2024 | 14:39 | LB132927 |
| | Cobalt | 506 | 476 | 106 | 404 | 548 | 10/14/2024 | 14:39 | LB132927 |
| | Copper | 512 | 511 | 100 | 434 | 588 | 10/14/2024 | 14:39 | LB132927 |
| | Iron | 97800 | 99300 | 98 | 84400 | 114500 | 10/14/2024 | 14:39 | LB132927 |
| | Lead | 57.1 | 49.0 | 116 | 37 | 61 | 10/14/2024 | 14:39 | LB132927 |
| | Magnesium | 255000 | 248000 | 103 | 210000 | 286000 | 10/14/2024 | 14:39 | LB132927 |
| | Manganese | 449 | 507 | 89 | 430 | 584 | 10/14/2024 | 14:39 | LB132927 |
| | Nickel | 996 | 954 | 104 | 810 | 1100 | 10/14/2024 | 14:39 | LB132927 |
| | Potassium | -0.98 | | | 0 | 0 | 10/14/2024 | 14:39 | LB132927 |
| | Selenium | 29.7 | 46.0 | 65 | 26 | 66 | 10/14/2024 | 14:39 | LB132927 |
| | Silver | 217 | 201 | 108 | 170 | 232 | 10/14/2024 | 14:39 | LB132927 |
| | Sodium | -113 | | | 0 | 0 | 10/14/2024 | 14:39 | LB132927 |
| | Thallium | 75.6 | 108 | 70 | 68 | 148 | 10/14/2024 | 14:39 | LB132927 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 492 | 491 | 100 | 417 | 565 | 10/14/2024 | 14:39 | LB132927 |
| | Zinc | 1080 | 952 | 113 | 809 | 1095 | 10/14/2024 | 14:39 | LB132927 |
| **ICSA01** | Aluminum | 259000 | 255000 | 102 | 216000 | 294000 | 10/15/2024 | 11:50 | LB132951 |
| | Antimony | -1.26 | | | -50 | 50 | 10/15/2024 | 11:50 | LB132951 |
| | Arsenic | -0.034 | | | -20 | 20 | 10/15/2024 | 11:50 | LB132951 |
| | Barium | 0.90 | 6.0 | 15 | -94 | 106 | 10/15/2024 | 11:50 | LB132951 |
| | Beryllium | 2.49 | | | -6 | 6 | 10/15/2024 | 11:50 | LB132951 |
| | Cadmium | 5.13 | 1.0 | 513 | -5 | 7 | 10/15/2024 | 11:50 | LB132951 |
| | Calcium | 238000 | 245000 | 97 | 208000 | 282000 | 10/15/2024 | 11:50 | LB132951 |
| | Chromium | 56.7 | 52.0 | 109 | 42 | 62 | 10/15/2024 | 11:50 | LB132951 |
| | Cobalt | 1.87 | | | -30 | 30 | 10/15/2024 | 11:50 | LB132951 |
| | Copper | 11.6 | 2.0 | 580 | -18 | 22 | 10/15/2024 | 11:50 | LB132951 |
| | Iron | 101000 | 101000 | 100 | 85600 | 116500 | 10/15/2024 | 11:50 | LB132951 |
| | Lead | 11.6 | | | -12 | 12 | 10/15/2024 | 11:50 | LB132951 |
| | Magnesium | 260000 | 255000 | 102 | 216000 | 294000 | 10/15/2024 | 11:50 | LB132951 |
| | Manganese | -2.55 | 7.0 | 36 | -13 | 27 | 10/15/2024 | 11:50 | LB132951 |
| | Nickel | 2.53 | 2.0 | 126 | -38 | 42 | 10/15/2024 | 11:50 | LB132951 |
| | Potassium | -7.55 | | | 0 | 0 | 10/15/2024 | 11:50 | LB132951 |
| | Selenium | -13.4 | | | -20 | 20 | 10/15/2024 | 11:50 | LB132951 |
| | Silver | -6.93 | | | -10 | 10 | 10/15/2024 | 11:50 | LB132951 |
| | Sodium | 29.1 | | | 0 | 0 | 10/15/2024 | 11:50 | LB132951 |
| | Thallium | 15.8 | | | -40 | 40 | 10/15/2024 | 11:50 | LB132951 |
| | Vanadium | 8.62 | | | -40 | 40 | 10/15/2024 | 11:50 | LB132951 |
| | Zinc | 4.25 | | | -40 | 40 | 10/15/2024 | 11:50 | LB132951 |
| **ICSAB01** | Aluminum | 262000 | 247000 | 106 | 209000 | 285000 | 10/15/2024 | 12:03 | LB132951 |
| | Antimony | 629 | 618 | 102 | 525 | 711 | 10/15/2024 | 12:03 | LB132951 |
| | Arsenic | 108 | 104 | 104 | 88.4 | 120 | 10/15/2024 | 12:03 | LB132951 |
| | Barium | 534 | 537 | 99 | 437 | 637 | 10/15/2024 | 12:03 | LB132951 |
| | Beryllium | 512 | 495 | 103 | 420 | 570 | 10/15/2024 | 12:03 | LB132951 |
| | Cadmium | 970 | 972 | 100 | 826 | 1120 | 10/15/2024 | 12:03 | LB132951 |
| | Calcium | 244000 | 235000 | 104 | 199000 | 271000 | 10/15/2024 | 12:03 | LB132951 |
| | Chromium | 586 | 542 | 108 | 460 | 624 | 10/15/2024 | 12:03 | LB132951 |
| | Cobalt | 518 | 476 | 109 | 404 | 548 | 10/15/2024 | 12:03 | LB132951 |
| | Copper | 509 | 511 | 100 | 434 | 588 | 10/15/2024 | 12:03 | LB132951 |
| | Iron | 105000 | 99300 | 106 | 84400 | 114500 | 10/15/2024 | 12:03 | LB132951 |
| | Lead | 58.4 | 49.0 | 119 | 37 | 61 | 10/15/2024 | 12:03 | LB132951 |
| | Magnesium | 262000 | 248000 | 106 | 210000 | 286000 | 10/15/2024 | 12:03 | LB132951 |
| | Manganese | 505 | 507 | 100 | 430 | 584 | 10/15/2024 | 12:03 | LB132951 |
| | Nickel | 1020 | 954 | 107 | 810 | 1100 | 10/15/2024 | 12:03 | LB132951 |
| | Potassium | -70.4 | | | 0 | 0 | 10/15/2024 | 12:03 | LB132951 |
| | Selenium | 33.2 | 46.0 | 72 | 26 | 66 | 10/15/2024 | 12:03 | LB132951 |
| | Silver | 224 | 201 | 111 | 170 | 232 | 10/15/2024 | 12:03 | LB132951 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 38.9 | | | 0 | 0 | 10/15/2024 | 12:03 | LB132951 |
| | Thallium | 93.9 | 108 | 87 | 68 | 148 | 10/15/2024 | 12:03 | LB132951 |
| | Vanadium | 515 | 491 | 105 | 417 | 565 | 10/15/2024 | 12:03 | LB132951 |
| | Zinc | 905 | 952 | 95 | 809 | 1095 | 10/15/2024 | 12:03 | LB132951 |
| **ICSA01** | Aluminum | 237000 | 255000 | 93 | 216000 | 294000 | 10/18/2024 | 13:32 | LB133014 |
| | Antimony | -1.32 | | | -50 | 50 | 10/18/2024 | 13:32 | LB133014 |
| | Arsenic | -4.50 | | | -20 | 20 | 10/18/2024 | 13:32 | LB133014 |
| | Barium | 2.49 | 6.0 | 42 | -94 | 106 | 10/18/2024 | 13:32 | LB133014 |
| | Beryllium | 1.11 | | | -6 | 6 | 10/18/2024 | 13:32 | LB133014 |
| | Cadmium | 6.89 | 1.0 | 689 | -5 | 7 | 10/18/2024 | 13:32 | LB133014 |
| | Calcium | 226000 | 245000 | 92 | 208000 | 282000 | 10/18/2024 | 13:32 | LB133014 |
| | Chromium | 55.6 | 52.0 | 107 | 42 | 62 | 10/18/2024 | 13:32 | LB133014 |
| | Cobalt | 1.25 | | | -30 | 30 | 10/18/2024 | 13:32 | LB133014 |
| | Copper | -8.46 | 2.0 | 423 | -18 | 22 | 10/18/2024 | 13:32 | LB133014 |
| | Iron | 98700 | 101000 | 98 | 85600 | 116500 | 10/18/2024 | 13:32 | LB133014 |
| | Lead | 6.37 | | | -12 | 12 | 10/18/2024 | 13:32 | LB133014 |
| | Magnesium | 246000 | 255000 | 96 | 216000 | 294000 | 10/18/2024 | 13:32 | LB133014 |
| | Manganese | 5.78 | 7.0 | 83 | -13 | 27 | 10/18/2024 | 13:32 | LB133014 |
| | Nickel | 2.27 | 2.0 | 114 | -38 | 42 | 10/18/2024 | 13:32 | LB133014 |
| | Potassium | -34.9 | | | 0 | 0 | 10/18/2024 | 13:32 | LB133014 |
| | Selenium | -14.0 | | | -20 | 20 | 10/18/2024 | 13:32 | LB133014 |
| | Silver | 3.92 | | | -10 | 10 | 10/18/2024 | 13:32 | LB133014 |
| | Sodium | 20.9 | | | 0 | 0 | 10/18/2024 | 13:32 | LB133014 |
| | Thallium | 5.51 | | | -40 | 40 | 10/18/2024 | 13:32 | LB133014 |
| | Vanadium | 5.78 | | | -40 | 40 | 10/18/2024 | 13:32 | LB133014 |
| | Zinc | 3.80 | | | -40 | 40 | 10/18/2024 | 13:32 | LB133014 |
| **ICSAB01** | Aluminum | 240000 | 247000 | 97 | 209000 | 285000 | 10/18/2024 | 13:56 | LB133014 |
| | Antimony | 622 | 618 | 101 | 525 | 711 | 10/18/2024 | 13:56 | LB133014 |
| | Arsenic | 107 | 104 | 103 | 88.4 | 120 | 10/18/2024 | 13:56 | LB133014 |
| | Barium | 482 | 537 | 90 | 437 | 637 | 10/18/2024 | 13:56 | LB133014 |
| | Beryllium | 490 | 495 | 99 | 420 | 570 | 10/18/2024 | 13:56 | LB133014 |
| | Cadmium | 1010 | 972 | 104 | 826 | 1120 | 10/18/2024 | 13:56 | LB133014 |
| | Calcium | 229000 | 235000 | 97 | 199000 | 271000 | 10/18/2024 | 13:56 | LB133014 |
| | Chromium | 573 | 542 | 106 | 460 | 624 | 10/18/2024 | 13:56 | LB133014 |
| | Cobalt | 516 | 476 | 108 | 404 | 548 | 10/18/2024 | 13:56 | LB133014 |
| | Copper | 484 | 511 | 95 | 434 | 588 | 10/18/2024 | 13:56 | LB133014 |
| | Iron | 101000 | 99300 | 102 | 84400 | 114500 | 10/18/2024 | 13:56 | LB133014 |
| | Lead | 55.1 | 49.0 | 112 | 37 | 61 | 10/18/2024 | 13:56 | LB133014 |
| | Magnesium | 250000 | 248000 | 101 | 210000 | 286000 | 10/18/2024 | 13:56 | LB133014 |
| | Manganese | 481 | 507 | 95 | 430 | 584 | 10/18/2024 | 13:56 | LB133014 |
| | Nickel | 1020 | 954 | 107 | 810 | 1100 | 10/18/2024 | 13:56 | LB133014 |
| | Potassium | -21.9 | | | 0 | 0 | 10/18/2024 | 13:56 | LB133014 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 37.2 | 46.0 | 81 | 26 | 66 | 10/18/2024 | 13:56 | LB133014 |
| | Silver | 229 | 201 | 114 | 170 | 232 | 10/18/2024 | 13:56 | LB133014 |
| | Sodium | 29.5 | | | 0 | 0 | 10/18/2024 | 13:56 | LB133014 |
| | Thallium | 97.0 | 108 | 90 | 68 | 148 | 10/18/2024 | 13:56 | LB133014 |
| | Vanadium | 472 | 491 | 96 | 417 | 565 | 10/18/2024 | 13:56 | LB133014 |
| | Zinc | 1080 | 952 | 113 | 809 | 1095 | 10/18/2024 | 13:56 | LB133014 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Roman E&G Corp **level:** low **sdg no.:** P4258

**contract:** ROMA02 **lab code:** CHEM **case no.:** P4258 **sas no.:** P4258

**matrix:** Solid **sample id:** P4364-16 **client id:** SB-08-0.167-0.667MS

**Percent Solids for Sample:** 93.3 **Spiked ID:** P4364-16MS **Percent Solids for Spike Sample:** 93.3

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 80 - 120 | 0.50 | | 0.24 | | 0.25 | 105 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Roman E&G Corp **level:** low **sdg no.:** P4258

**contract:** ROMA02 **lab code:** CHEM **case no.:** P4258 **sas no.:** P4258

**matrix:** Solid **sample id:** P4364-16 **client id:** SB-08-0.167-0.667MSD

**Percent Solids for Sample:** 93.3 **Spiked ID:** P4364-16MSD **Percent Solids for Spike Sample:** 93.3

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 80 - 120 | 0.50 | | 0.24 | | 0.27 | 99 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Roman E&G Corp **level:** low **sdg no.:** P4258

**contract:** ROMA02 **lab code:** CHEM **case no.:** P4258 **sas no.:** P4258

**matrix:** Solid **sample id:** P4385-20 **client id:** SP-10MS

**Percent Solids for Sample:** 94.4 **Spiked ID:** P4385-20MS **Percent Solids for Spike Sample:** 94.4

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 11600 | | 10800 | | 100 | 811 | | P |
| Antimony | mg/Kg | 75 - 125 | 29.2 | | 2.36 | U | 40.2 | 73 | N | P |
| Arsenic | mg/Kg | 75 - 125 | 34.5 | | 4.41 | | 40.2 | 75 | | P |
| Barium | mg/Kg | 75 - 125 | 62.5 | | 51.1 | | 10.0 | 114 | | P |
| Beryllium | mg/Kg | 75 - 125 | 8.48 | | 0.59 | | 10.0 | 79 | | P |
| Cadmium | mg/Kg | 75 - 125 | 11.7 | | 1.90 | | 10.0 | 98 | | P |
| Calcium | mg/Kg | 75 - 125 | 1350 | | 1220 | | 50.2 | 248 | | P |
| Chromium | mg/Kg | 75 - 125 | 35.6 | | 19.0 | | 20.1 | 83 | | P |
| Cobalt | mg/Kg | 75 - 125 | 19.0 | | 8.50 | | 10.0 | 105 | | P |
| Copper | mg/Kg | 75 - 125 | 24.1 | | 13.7 | | 15.1 | 69 | N | P |
| Iron | mg/Kg | 75 - 125 | 11600 | | 11300 | | 150 | 208 | | P |
| Lead | mg/Kg | 75 - 125 | 49.0 | | 11.2 | | 50.2 | 75 | | P |
| Magnesium | mg/Kg | 75 - 125 | 1150 | | 1000 | | 100 | 146 | | P |
| Manganese | mg/Kg | 75 - 125 | 168 | | 149 | | 10.0 | 193 | | P |
| Nickel | mg/Kg | 75 - 125 | 26.5 | | 6.97 | | 25.1 | 78 | | P |
| Potassium | mg/Kg | 75 - 125 | 667 | | 401 | | 500 | 53 | N | P |
| Selenium | mg/Kg | 75 - 125 | 68.1 | | 0.95 | U | 100 | 68 | N | P |
| Silver | mg/Kg | 75 - 125 | 3.05 | | 0.47 | U | 3.8 | 80 | | P |
| Sodium | mg/Kg | 75 - 125 | 160 | | 48.5 | J | 150 | 75 | | P |
| Thallium | mg/Kg | 75 - 125 | 92.7 | | 1.89 | U | 100 | 93 | | P |
| Vanadium | mg/Kg | 75 - 125 | 35.9 | | 23.4 | | 15.1 | 83 | | P |
| Zinc | mg/Kg | 75 - 125 | 27.2 | | 18.6 | | 10.0 | 86 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Roman E&G Corp **level:** low **sdg no.:** P4258

**contract:** ROMA02 **lab code:** CHEM **case no.:** P4258 **sas no.:** P4258

**matrix:** Solid **sample id:** P4385-20 **client id:** SP-10MSD

**Percent Solids for Sample:** 94.4 **Spiked ID:** P4385-20MSD **Percent Solids for Spike Sample:** 94.4

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 10600 | | 10800 | | 91.7 | -151 | | P |
| Antimony | mg/Kg | 75 - 125 | 27.7 | | 2.36 | U | 36.7 | 76 | | P |
| Arsenic | mg/Kg | 75 - 125 | 32.2 | | 4.41 | | 36.7 | 76 | | P |
| Barium | mg/Kg | 75 - 125 | 57.5 | | 51.1 | | 9.2 | 70 | | P |
| Beryllium | mg/Kg | 75 - 125 | 7.81 | | 0.59 | | 9.2 | 78 | | P |
| Cadmium | mg/Kg | 75 - 125 | 11.0 | | 1.90 | | 9.2 | 98 | | P |
| Calcium | mg/Kg | 75 - 125 | 1240 | | 1220 | | 45.9 | 41 | | P |
| Chromium | mg/Kg | 75 - 125 | 33.1 | | 19.0 | | 18.3 | 77 | | P |
| Cobalt | mg/Kg | 75 - 125 | 17.7 | | 8.50 | | 9.2 | 100 | | P |
| Copper | mg/Kg | 75 - 125 | 22.4 | | 13.7 | | 13.8 | 63 | N | P |
| Iron | mg/Kg | 75 - 125 | 10700 | | 11300 | | 140 | -449 | | P |
| Lead | mg/Kg | 75 - 125 | 45.6 | | 11.2 | | 45.9 | 75 | | P |
| Magnesium | mg/Kg | 75 - 125 | 1060 | | 1000 | | 91.7 | 61 | | P |
| Manganese | mg/Kg | 75 - 125 | 154 | | 149 | | 9.2 | 55 | | P |
| Nickel | mg/Kg | 75 - 125 | 24.7 | | 6.97 | | 22.9 | 77 | | P |
| Potassium | mg/Kg | 75 - 125 | 621 | | 401 | | 460 | 48 | N | P |
| Selenium | mg/Kg | 75 - 125 | 64.3 | | 0.95 | U | 91.7 | 70 | N | P |
| Silver | mg/Kg | 75 - 125 | 2.80 | | 0.47 | U | 3.4 | 82 | | P |
| Sodium | mg/Kg | 75 - 125 | 148 | | 48.5 | J | 140 | 71 | N | P |
| Thallium | mg/Kg | 75 - 125 | 86.2 | | 1.89 | U | 91.7 | 94 | | P |
| Vanadium | mg/Kg | 75 - 125 | 33.3 | | 23.4 | | 13.8 | 71 | N | P |
| Zinc | mg/Kg | 75 - 125 | 25.0 | | 18.6 | | 9.2 | 70 | N | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**Matrix:** Solid **Level:** LOW **Client ID:** SP-10A

**Sample ID:** P4385-20 **Spiked ID:** P4385-20A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/Kg | 75 - 125 | 28.1 | | 2.36 | U | 37.8 | 74 | | P |
| Copper | mg/Kg | 75 - 125 | 22.6 | | 13.7 | | 14.2 | 62 | | P |
| Potassium | mg/Kg | 75 - 125 | 637 | | 401 | | 470 | 50 | | P |
| Selenium | mg/Kg | 75 - 125 | 65.5 | | 0.95 | U | 94.6 | 69 | | P |
| Sodium | mg/Kg | 75 - 125 | 151 | | 48.5 | J | 140 | 73 | | P |
| Vanadium | mg/Kg | 75 - 125 | 33.9 | | 23.4 | | 14.2 | 74 | | P |
| Zinc | mg/Kg | 75 - 125 | 25.8 | | 18.6 | | 9.50 | 76 | | P |

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# Metals

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## DUPLICATE SAMPLE SUMMARY

**Client:** Roman E&G Corp **Level:** LOW **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**Matrix:** Solid **Sample ID:** P4364-16 **Client ID:** SB-08-0.167-0.667DUP

**Percent Solids for Sample:** 93.3 **Duplicate ID** P4364-16DUP **Percent Solids for Spike Sample:** 93.3

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 20 | 0.24 | | 0.25 | | 5 | | 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:** Roman E&G Corp **Level:** LOW **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**Matrix:** Solid **Sample ID:** P4364-16MS **Client ID:** SB-08-0.167-0.667MSD

**Percent Solids for Sample:** 93.3 **Duplicate ID** P4364-16MSD **Percent Solids for Spike Sample:** 93.3

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 20 | 0.50 | | 0.50 | | 1 | | 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:** Roman E&G Corp **Level:** LOW **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**Matrix:** Solid **Sample ID:** P4385-20 **Client ID:** SP-10DUP

**Percent Solids for Sample:** 94.4 **Duplicate ID** P4385-20DUP **Percent Solids for Spike Sample:** 94.4

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 10800 | | 10500 | | 3 | | P |
| Antimony | mg/Kg | 20 | 2.36 | U | 2.29 | U | | | P |
| Arsenic | mg/Kg | 20 | 4.41 | | 4.20 | | 5 | | P |
| Barium | mg/Kg | 20 | 51.1 | | 48.4 | | 5 | | P |
| Beryllium | mg/Kg | 20 | 0.59 | | 0.57 | | 2 | | P |
| Cadmium | mg/Kg | 20 | 1.90 | | 1.85 | | 3 | | P |
| Calcium | mg/Kg | 20 | 1220 | | 1170 | | 4 | | P |
| Chromium | mg/Kg | 20 | 19.0 | | 18.1 | | 5 | | P |
| Cobalt | mg/Kg | 20 | 8.50 | | 8.16 | | 4 | | P |
| Copper | mg/Kg | 20 | 13.7 | | 13.6 | | 1 | | P |
| Iron | mg/Kg | 20 | 11300 | | 10500 | | 7 | | P |
| Lead | mg/Kg | 20 | 11.2 | | 10.8 | | 4 | | P |
| Magnesium | mg/Kg | 20 | 1000 | | 970 | | 3 | | P |
| Manganese | mg/Kg | 20 | 149 | | 142 | | 5 | | P |
| Nickel | mg/Kg | 20 | 6.97 | | 6.78 | | 3 | | P |
| Potassium | mg/Kg | 20 | 401 | | 373 | | 7 | | P |
| Selenium | mg/Kg | 20 | 0.95 | U | 0.92 | U | | | P |
| Silver | mg/Kg | 20 | 0.47 | U | 0.46 | U | | | P |
| Sodium | mg/Kg | 20 | 48.5 | J | 45.4 | J | 7 | | P |
| Thallium | mg/Kg | 20 | 1.89 | U | 1.83 | U | | | P |
| Vanadium | mg/Kg | 20 | 23.4 | | 22.4 | | 4 | | P |
| Zinc | mg/Kg | 20 | 18.6 | | 17.6 | | 6 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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# Metals

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## DUPLICATE SAMPLE SUMMARY

**Client:** Roman E&G Corp **Level:** LOW **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**Matrix:** Solid **Sample ID:** P4385-20MS **Client ID:** SP-10MSD

**Percent Solids for Sample:** 94.4 **Duplicate ID** P4385-20MSD **Percent Solids for Spike Sample:** 94.4

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 11600 | | 10600 | | 9 | | P |
| Antimony | mg/Kg | 20 | 29.2 | | 27.7 | | 5 | | P |
| Arsenic | mg/Kg | 20 | 34.5 | | 32.2 | | 7 | | P |
| Barium | mg/Kg | 20 | 62.5 | | 57.5 | | 8 | | P |
| Beryllium | mg/Kg | 20 | 8.48 | | 7.81 | | 8 | | P |
| Cadmium | mg/Kg | 20 | 11.7 | | 11.0 | | 7 | | P |
| Calcium | mg/Kg | 20 | 1350 | | 1240 | | 8 | | P |
| Chromium | mg/Kg | 20 | 35.6 | | 33.1 | | 7 | | P |
| Cobalt | mg/Kg | 20 | 19.0 | | 17.7 | | 7 | | P |
| Copper | mg/Kg | 20 | 24.1 | | 22.4 | | 7 | | P |
| Iron | mg/Kg | 20 | 11600 | | 10700 | | 8 | | P |
| Lead | mg/Kg | 20 | 49.0 | | 45.6 | | 7 | | P |
| Magnesium | mg/Kg | 20 | 1150 | | 1060 | | 8 | | P |
| Manganese | mg/Kg | 20 | 168 | | 154 | | 9 | | P |
| Nickel | mg/Kg | 20 | 26.5 | | 24.7 | | 7 | | P |
| Potassium | mg/Kg | 20 | 667 | | 621 | | 7 | | P |
| Selenium | mg/Kg | 20 | 68.1 | | 64.3 | | 6 | | P |
| Silver | mg/Kg | 20 | 3.05 | | 2.80 | | 9 | | P |
| Sodium | mg/Kg | 20 | 160 | | 148 | | 8 | | P |
| Thallium | mg/Kg | 20 | 92.7 | | 86.2 | | 7 | | P |
| Vanadium | mg/Kg | 20 | 35.9 | | 33.3 | | 8 | | P |
| Zinc | mg/Kg | 20 | 27.2 | | 25.0 | | 8 | | 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:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB164065BS | | | | | | | |
| Aluminum | mg/Kg | 81.3 | 79.9 | | 98 | 80 - 120 | P |
| Antimony | mg/Kg | 32.5 | 31.7 | | 98 | 80 - 120 | P |
| Arsenic | mg/Kg | 32.5 | 29.3 | | 90 | 80 - 120 | P |
| Barium | mg/Kg | 8.1 | 7.50 | | 93 | 80 - 120 | P |
| Beryllium | mg/Kg | 8.1 | 7.89 | | 97 | 80 - 120 | P |
| Cadmium | mg/Kg | 8.1 | 7.19 | | 89 | 80 - 120 | P |
| Calcium | mg/Kg | 40.7 | 40.1 | J | 98 | 80 - 120 | P |
| Chromium | mg/Kg | 16.3 | 16.0 | | 98 | 80 - 120 | P |
| Cobalt | mg/Kg | 8.1 | 7.71 | | 95 | 80 - 120 | P |
| Copper | mg/Kg | 12.2 | 12.3 | | 101 | 80 - 120 | P |
| Iron | mg/Kg | 120 | 114 | | 95 | 80 - 120 | P |
| Lead | mg/Kg | 40.7 | 36.3 | | 89 | 80 - 120 | P |
| Magnesium | mg/Kg | 81.3 | 77.4 | J | 95 | 80 - 120 | P |
| Manganese | mg/Kg | 8.1 | 7.86 | | 97 | 80 - 120 | P |
| Nickel | mg/Kg | 20.3 | 19.3 | | 95 | 80 - 120 | P |
| Potassium | mg/Kg | 410 | 377 | | 92 | 80 - 120 | P |
| Selenium | mg/Kg | 81.3 | 74.3 | | 91 | 80 - 120 | P |
| Silver | mg/Kg | 3.0 | 3.07 | | 102 | 80 - 120 | P |
| Sodium | mg/Kg | 120 | 110 | | 92 | 80 - 120 | P |
| Thallium | mg/Kg | 81.3 | 75.9 | | 93 | 80 - 120 | P |
| Vanadium | mg/Kg | 12.2 | 11.8 | | 97 | 80 - 120 | P |
| Zinc | mg/Kg | 8.1 | 8.36 | | 103 | 80 - 120 | P |

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## Metals



### LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB164114BS | | | | | | | |
| Mercury | mg/Kg | 0.27 | 0.26 | | 97 | 80 - 120 | CV |

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# Metals

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## ICP SERIAL DILUTIONS

SAMPLE NO.

SB-08-0.167-0.667L

**Lab Name:** Chemtech Consulting Group **Contract:** ROMA02

**Lab Code:** CHEM **Lb No.:** lb132914 **Lab Sample ID :** P4364-16L **SDG No.:** P4258

**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 | 0.24 | | 0.27 | | 13 | | CV |

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# Metals

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## ICP SERIAL DILUTIONS

SAMPLE NO.

SP-10L

**Lab Name:** Chemtech Consulting Group **Contract:** ROMA02

**Lab Code:** CHEM **Lb No.:** lb133014 **Lab Sample ID :** P4385-20L **SDG No.:** P4258

**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 | 10800 | | 12700 | | 18 | | P |
| Antimony | 2.36 | U | 11.8 | U | | | P |
| Arsenic | 4.41 | | 4.37 | J | 1 | | P |
| Barium | 51.1 | | 60.4 | | 18 | | P |
| Beryllium | 0.59 | | 0.75 | J | 28 | | P |
| Cadmium | 1.90 | | 1.40 | J | 26 | | P |
| Calcium | 1220 | | 1480 | | 22 | | P |
| Chromium | 19.0 | | 22.3 | | 17 | | P |
| Cobalt | 8.50 | | 8.34 | | 2 | | P |
| Copper | 13.7 | | 18.2 | | 32 | | P |
| Iron | 11300 | | 12900 | | 14 | | P |
| Lead | 11.2 | | 11.7 | | 4 | | P |
| Magnesium | 1000 | | 1210 | | 21 | | P |
| Manganese | 149 | | 184 | | 24 | | P |
| Nickel | 6.97 | | 6.89 | J | 1 | | P |
| Potassium | 401 | | 446 | J | 11 | | P |
| Selenium | 0.95 | U | 4.73 | U | | | P |
| Silver | 0.47 | U | 2.36 | U | | | P |
| Sodium | 48.5 | J | 473 | U | 100.0 | | P |
| Thallium | 1.89 | U | 9.46 | U | | | P |
| Vanadium | 23.4 | | 27.8 | | 19 | | P |
| Zinc | 18.6 | | 21.3 | | 15 | | P |

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**metals**
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**ANALYSIS RUN LOG**

**Client:** Roman E&G Corp **Contract:** ROMA02

**Lab code:** CHEM **Case no.:** P4258 **Sas no.:** P4258 **Sdg no.:** P4258

**Instrument id number:** **Method:** **Run number:** LB132914

**Start date:** 10/14/2024 **End date:** 10/14/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1119 | HG |
| S0.2 | S0.2 | 1 | 1121 | HG |
| S2.5 | S2.5 | 1 | 1123 | HG |
| S5 | S5 | 1 | 1126 | HG |
| S7.5 | S7.5 | 1 | 1128 | HG |
| S10 | S10 | 1 | 1130 | HG |
| ICV36 | ICV36 | 1 | 1133 | HG |
| ICB36 | ICB36 | 1 | 1138 | HG |
| CCV13 | CCV13 | 1 | 1140 | HG |
| CCB13 | CCB13 | 1 | 1143 | HG |
| CRA | CRA | 1 | 1145 | HG |
| PB164114BL | PB164114BL | 1 | 1154 | HG |
| PB164114BS | PB164114BS | 1 | 1157 | HG |
| P4258-03 | Chamberlain Ave | 1 | 1159 | HG |
| CCV14 | CCV14 | 1 | 1210 | HG |
| CCB14 | CCB14 | 1 | 1213 | HG |
| CCV15 | CCV15 | 1 | 1239 | HG |
| CCB15 | CCB15 | 1 | 1241 | HG |
| P4364-16DUP | SB-08-0.167-0.667DUP | 1 | 1248 | HG |
| P4364-16MS | SB-08-0.167-0.667MS | 1 | 1253 | HG |
| P4364-16MSD | SB-08-0.167-0.667MSD | 1 | 1255 | HG |
| CCV16 | CCV16 | 1 | 1309 | HG |
| CCB16 | CCB16 | 1 | 1312 | HG |
| CCV17 | CCV17 | 1 | 1337 | HG |
| CCB17 | CCB17 | 1 | 1339 | HG |
| CCV18 | CCV18 | 1 | 1404 | HG |
| CCB18 | CCB18 | 1 | 1406 | HG |
| CCV19 | CCV19 | 1 | 1431 | HG |
| CCB19 | CCB19 | 1 | 1434 | HG |
| P4364-16L | SB-08-0.167-0.667L | 5 | 1445 | HG |
| CCV20 | CCV20 | 1 | 1459 | HG |
| CCB20 | CCB20 | 1 | 1501 | HG |
| CCV21 | CCV21 | 1 | 1515 | HG |
| CCB21 | CCB21 | 1 | 1517 | HG |

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**metals**
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**ANALYSIS RUN LOG**

**Client:** Roman E&G Corp **Contract:** ROMA02

**Lab code:** CHEM **Case no.:** P4258 **Sas no.:** P4258 **Sdg no.:** P4258

**Instrument id number:** **Method:** **Run number:** LB132927

**Start date:** 10/14/2024 **End date:** 10/14/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1340 | 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 | 1345 | 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 | 1349 | 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 | 1353 | 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 | 1357 | 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 | 1402 | 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 | 1406 | 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 | 1418 | 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 | 1423 | 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 | 1427 | 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 | 1432 | 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 | 1439 | 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 | 1443 | 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 | 1447 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4258-03 | Chamberlain Ave | 1 | 1505 | 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 | 1509 | 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 | 1513 | 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 | 1603 | 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 | 1607 | 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 | 1706 | 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 | 1711 | 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 | 1800 | 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 | 1804 | 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 | 1851 | 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 | 1855 | 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 | 1911 | 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 | 1915 | 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:** Roman E&G Corp **Contract:** ROMA02

**Lab code:** CHEM **Case no.:** P4258 **Sas no.:** P4258 **Sdg no.:** P4258

**Instrument id number:** **Method:** **Run number:** LB132951

**Start date:** 10/15/2024 **End date:** 10/15/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1042 | 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 | 1047 | 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 | 1051 | 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 | 1055 | 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 | 1059 | 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 | 1103 | 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 | 1124 | 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 | 1137 | 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 | 1141 | 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 | 1146 | 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 | 1150 | 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 | 1203 | 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 | 1226 | 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 | 1230 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB164065BS | PB164065BS | 1 | 1306 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV02 | CCV02 | 1 | 1323 | 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 | 1327 | 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 | 1407 | 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 | 1411 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB164065BL | PB164065BL | 1 | 1426 | 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 | 1435 | 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 | 1439 | 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 | 1526 | 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 | 1530 | 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 | 1617 | 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 | 1621 | 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 | 1714 | 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 | 1718 | 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 | 1749 | 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 | 1753 | 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**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** Roman E&G Corp **Contract:** ROMA02

**Lab code:** CHEM **Case no.:** P4258 **Sas no.:** P4258 **Sdg no.:** P4258

**Instrument id number:** **Method:** **Run number:** LB133014

**Start date:** 10/18/2024 **End date:** 10/18/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1203 | 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 | 1207 | 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 | 1212 | 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 | 1216 | 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 | 1220 | 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 | 1224 | 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 | 1308 | 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 | 1313 | 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 | 1323 | 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 | 1327 | 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 | 1332 | 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 | 1356 | 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 | 1400 | 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 | 1405 | 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 | 1453 | 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 | 1457 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4385-20DUP | SP-10DUP | 1 | 1516 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4385-20L | SP-10L | 5 | 1520 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4385-20MS | SP-10MS | 1 | 1524 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4385-20MSD | SP-10MSD | 1 | 1528 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4385-20A | SP-10A | 1 | 1532 | Cu,K,Na,Sb,Se,V,Zn |
| CCV03 | CCV03 | 1 | 1605 | 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 | 1639 | 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 | 1728 | 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 | 1732 | 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
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51,K11,K21 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-03** | **Chamberlain Ave** | **SOIL** | | | **10/01/24** | | | **10/01/24** |
| | | | Mercury | 7471B | | 10/11/24 | 10/14/24 | |
| | | | Metals ICP-TAL | 6010D | | 10/11/24 | 10/14/24 | |
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP Mercury | 7470A | | 10/03/24 | 10/04/24 | |
| | | | TCLP Metals + Cu+Ni+Zn | 6010D | | 10/03/24 | 10/04/24 | |

# METAL PREPARATION & ANALYICAL SUMMARY

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Method:**

**Case No.:** P4258 **SAS No.:** P4258

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB164065** | | | | | | |
| P4258-03 | Chamberlain Ave | SAM | SOLID | 10/11/2024 | 2.14 | 100.0 | 86.00 |
| P4385-20DUP | SP-10DUP | DUP | SOLID | 10/11/2024 | 2.31 | 100.0 | 94.40 |
| P4385-20MS | SP-10MS | MS | SOLID | 10/11/2024 | 2.11 | 100.0 | 94.40 |
| P4385-20MSD | SP-10MSD | MSD | SOLID | 10/11/2024 | 2.31 | 100.0 | 94.40 |
| PB164065BL | PB164065BL | MB | SOLID | 10/11/2024 | 2.46 | 100.0 | 100.00 |
| PB164065BS | PB164065BS | LCS | SOLID | 10/11/2024 | 2.46 | 100.0 | 100.00 |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Method:**

**Case No.:** P4258 **SAS No.:** P4258

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB164114** | | | | | | |
| P4258-03 | Chamberlain Ave | SAM | SOLID | 10/11/2024 | 0.54 | 35.0 | 86.00 |
| P4364-16DUP | SB-08-0.167-0.667DUP | DUP | SOLID | 10/11/2024 | 0.56 | 35.0 | 93.30 |
| P4364-16MS | SB-08-0.167-0.667MS | MS | SOLID | 10/11/2024 | 0.59 | 35.0 | 93.30 |
| P4364-16MSD | SB-08-0.167-0.667MSD | MSD | SOLID | 10/11/2024 | 0.56 | 35.0 | 93.30 |
| PB164114BL | PB164114BL | MB | SOLID | 10/11/2024 | 0.54 | 35.0 | 100.00 |
| PB164114BS | PB164114BS | LCS | SOLID | 10/11/2024 | 0.52 | 35.0 | 100.00 |

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Fax : 908 789 8922



**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132914

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/14/2024 10:26:20 PM |
| Supervise By | mohan | Supervise On | 10/14/2024 10:27:01 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82765,MP82766,MP82767,MP82768,MP82769,MP82770 |
| ICV Standard | MP82771 |
| CCV Standard | MP82773 |
| ICSA Standard | |
| CRI Standard | MP82775 |
| LCS Standard | |
| Chk Standard | MP82772,MP82774,MP82776,MP82781 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 10/14/24 11:19 | | Mohan | OK |
| 2 | S0.2 | S0.2 | CAL2 | 10/14/24 11:21 | | Mohan | OK |
| 3 | S2.5 | S2.5 | CAL3 | 10/14/24 11:23 | | Mohan | OK |
| 4 | S5 | S5 | CAL4 | 10/14/24 11:26 | | Mohan | OK |
| 5 | S7.5 | S7.5 | CAL5 | 10/14/24 11:28 | | Mohan | OK |
| 6 | S10 | S10 | CAL6 | 10/14/24 11:30 | | Mohan | OK |
| 7 | ICV36 | ICV36 | ICV | 10/14/24 11:33 | | Mohan | OK |
| 8 | ICB36 | ICB36 | ICB | 10/14/24 11:38 | | Mohan | OK |
| 9 | CCV13 | CCV13 | CCV | 10/14/24 11:40 | | Mohan | OK |
| 10 | CCB13 | CCB13 | CCB | 10/14/24 11:43 | | Mohan | OK |
| 11 | CRA | CRA | CRDL | 10/14/24 11:45 | | Mohan | OK |
| 12 | HighStd | HighStd | HIGH STD | 10/14/24 11:47 | | Mohan | OK |
| 13 | ChkStd | ChkStd | SAM | 10/14/24 11:49 | | Mohan | OK |
| 14 | PB164114BL | PB164114BL | MB | 10/14/24 11:54 | | Mohan | OK |
| 15 | PB164114BS | PB164114BS | LCS | 10/14/24 11:57 | | Mohan | OK |
| 16 | P4258-03 | Chamberlain Ave | SAM | 10/14/24 11:59 | | Mohan | OK |
| 17 | P4364-01 | SB-01-1.0-1.5 | SAM | 10/14/24 12:01 | | Mohan | OK |
| 18 | P4364-02 | SB-01-2.5-3.0 | SAM | 10/14/24 12:03 | | Mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132914

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/14/2024 10:26:20 PM |
| Supervise By | mohan | Supervise On | 10/14/2024 10:27:01 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82765,MP82766,MP82767,MP82768,MP82769,MP82770 |
| ICV Standard | MP82771 |
| CCV Standard | MP82773 |
| ICSA Standard | |
| CRI Standard | MP82775 |
| LCS Standard | |
| Chk Standard | MP82772,MP82774,MP82776,MP82781 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4364-03 | SB-01-4.25-4.83 | SAM | 10/14/24 12:06 | | Mohan | OK |
| 20 | P4364-04 | SB-02-0.167-0.667 | SAM | 10/14/24 12:08 | High | Mohan | Dilution |
| 21 | CCV14 | CCV14 | CCV | 10/14/24 12:10 | | Mohan | OK |
| 22 | CCB14 | CCB14 | CCB | 10/14/24 12:13 | | Mohan | OK |
| 23 | P4364-05 | SB-02-2.0-2.5 | SAM | 10/14/24 12:15 | High | Mohan | Dilution |
| 24 | P4364-06 | SB-02-4.5-5.0 | SAM | 10/14/24 12:17 | High | Mohan | Dilution |
| 25 | P4364-07 | SB-03-0.167-0.667 | SAM | 10/14/24 12:20 | High | Mohan | Dilution |
| 26 | P4364-08 | SB-03-2.0-2.5 | SAM | 10/14/24 12:22 | | Mohan | OK |
| 27 | P4364-09 | SB-03-4.167-4.667 | SAM | 10/14/24 12:25 | | Mohan | OK |
| 28 | P4364-10 | SB-04-0.167-0.667 | SAM | 10/14/24 12:27 | High | Mohan | Dilution |
| 29 | P4364-11 | SB-04-2.0-2.5 | SAM | 10/14/24 12:29 | | Mohan | OK |
| 30 | P4364-12 | SB-04-4.5-5.0 | SAM | 10/14/24 12:32 | | Mohan | OK |
| 31 | P4364-13 | SB-05-0.167-0.667 | SAM | 10/14/24 12:34 | | Mohan | OK |
| 32 | P4364-14 | SB-06-0.167-0.667 | SAM | 10/14/24 12:37 | | Mohan | OK |
| 33 | CCV15 | CCV15 | CCV | 10/14/24 12:39 | | Mohan | OK |
| 34 | CCB15 | CCB15 | CCB | 10/14/24 12:41 | | Mohan | OK |
| 35 | P4364-15 | SB-07-0.167-0.667 | SAM | 10/14/24 12:43 | | Mohan | OK |
| 36 | P4364-16 | SB-08-0.167-0.667 | SAM | 10/14/24 12:46 | | Mohan | OK |
| 37 | P4364-16DUP | SB-08-0.167-0.667DU | DUP | 10/14/24 12:48 | | Mohan | OK |
| 38 | P4364-16MS | SB-08-0.167-0.667MS | MS | 10/14/24 12:53 | | Mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132914

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/14/2024 10:26:20 PM |
| Supervise By | mohan | Supervise On | 10/14/2024 10:27:01 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82765,MP82766,MP82767,MP82768,MP82769,MP82770 |
| ICV Standard | MP82771 |
| CCV Standard | MP82773 |
| ICSA Standard | |
| CRI Standard | MP82775 |
| LCS Standard | |
| Chk Standard | MP82772,MP82774,MP82776,MP82781 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | P4364-16MSD | SB-08-0.167-0.667MS | MSD | 10/14/24 12:55 | | Mohan | OK |
| 40 | P4376-01 | OR-02-100924 | SAM | 10/14/24 12:58 | | Mohan | OK |
| 41 | P4377-01 | HD-01-100924 | SAM | 10/14/24 13:00 | | Mohan | OK |
| 42 | PB164117BL | PB164117BL | MB | 10/14/24 13:02 | | Mohan | OK |
| 43 | PB164117BS | PB164117BS | LCS | 10/14/24 13:05 | | Mohan | OK |
| 44 | P4375-01 | CONCRETE-PADS-1 | SAM | 10/14/24 13:07 | | Mohan | OK |
| 45 | CCV16 | CCV16 | CCV | 10/14/24 13:09 | | Mohan | OK |
| 46 | CCB16 | CCB16 | CCB | 10/14/24 13:12 | | Mohan | OK |
| 47 | P4375-01DUP | CONCRETE-PADS-1D | DUP | 10/14/24 13:14 | | Mohan | OK |
| 48 | P4375-01MS | CONCRETE-PADS-1M | MS | 10/14/24 13:16 | | Mohan | OK |
| 49 | P4375-01MSD | CONCRETE-PADS-1M | MSD | 10/14/24 13:18 | | Mohan | OK |
| 50 | P4375-03 | CONCRETE-PADS-2 | SAM | 10/14/24 13:21 | | Mohan | OK |
| 51 | P4375-05 | CONCRETE-PADS-3 | SAM | 10/14/24 13:23 | | Mohan | OK |
| 52 | P4375-07 | CONCRETE-PADS-4 | SAM | 10/14/24 13:25 | | Mohan | OK |
| 53 | P4375-09 | CONCRETE-PADS-5 | SAM | 10/14/24 13:28 | | Mohan | OK |
| 54 | P4375-11 | CONCRETE-PADS-6 | SAM | 10/14/24 13:30 | | Mohan | OK |
| 55 | P4375-13 | CONCRETE-PADS-7 | SAM | 10/14/24 13:32 | | Mohan | OK |
| 56 | P4375-15 | CONCRETE-PADS-8 | SAM | 10/14/24 13:34 | | Mohan | OK |
| 57 | CCV17 | CCV17 | CCV | 10/14/24 13:37 | | Mohan | OK |
| 58 | CCB17 | CCB17 | CCB | 10/14/24 13:39 | | Mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132914

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/14/2024 10:26:20 PM |
| Supervise By | mohan | Supervise On | 10/14/2024 10:27:01 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82765,MP82766,MP82767,MP82768,MP82769,MP82770 |
| ICV Standard | MP82771 |
| CCV Standard | MP82773 |
| ICSA Standard | |
| CRI Standard | MP82775 |
| LCS Standard | |
| Chk Standard | MP82772,MP82774,MP82776,MP82781 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 59 | P4375-17 | CONCRETE-PADS-9 | SAM | 10/14/24 13:41 | | Mohan | OK |
| 60 | P4375-19 | CONCRETE-PADS-10 | SAM | 10/14/24 13:43 | | Mohan | OK |
| 61 | P4375-21 | CONCRETE-PADS-11 | SAM | 10/14/24 13:46 | | Mohan | OK |
| 62 | P4375-23 | FENCE-POST-1 | SAM | 10/14/24 13:48 | | Mohan | OK |
| 63 | P4375-25 | FENCE-POST-2 | SAM | 10/14/24 13:50 | | Mohan | OK |
| 64 | P4375-27 | FENCE-POST-3 | SAM | 10/14/24 13:52 | | Mohan | OK |
| 65 | PB164118BL | PB164118BL | MB | 10/14/24 13:55 | | Mohan | OK |
| 66 | PB164118BS | PB164118BS | LCS | 10/14/24 13:57 | | Mohan | OK |
| 67 | P4385-02 | SP-1 | SAM | 10/14/24 13:59 | | Mohan | OK |
| 68 | P4385-04 | SP-2 | SAM | 10/14/24 14:02 | | Mohan | OK |
| 69 | CCV18 | CCV18 | CCV | 10/14/24 14:04 | | Mohan | OK |
| 70 | CCB18 | CCB18 | CCB | 10/14/24 14:06 | | Mohan | OK |
| 71 | P4385-06 | SP-3 | SAM | 10/14/24 14:08 | | Mohan | OK |
| 72 | P4385-08 | SP-4 | SAM | 10/14/24 14:11 | | Mohan | OK |
| 73 | P4385-10 | SP-5 | SAM | 10/14/24 14:13 | | Mohan | OK |
| 74 | P4385-12 | SP-6 | SAM | 10/14/24 14:15 | | Mohan | OK |
| 75 | P4385-14 | SP-7 | SAM | 10/14/24 14:18 | | Mohan | OK |
| 76 | P4385-16 | SP-8 | SAM | 10/14/24 14:20 | | Mohan | OK |
| 77 | P4385-18 | SP-9 | SAM | 10/14/24 14:22 | | Mohan | OK |
| 78 | P4385-20 | SP-10 | SAM | 10/14/24 14:24 | | Mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132914

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/14/2024 10:26:20 PM |
| Supervise By | mohan | Supervise On | 10/14/2024 10:27:01 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82765,MP82766,MP82767,MP82768,MP82769,MP82770 |
| ICV Standard | MP82771 |
| CCV Standard | MP82773 |
| ICSA Standard | |
| CRI Standard | MP82775 |
| LCS Standard | |
| Chk Standard | MP82772,MP82774,MP82776,MP82781 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 79 | P4385-20DUP | SP-10DUP | DUP | 10/14/24 14:27 | | Mohan | OK |
| 80 | P4385-20MS | SP-10MS | MS | 10/14/24 14:29 | | Mohan | OK |
| 81 | CCV19 | CCV19 | CCV | 10/14/24 14:31 | | Mohan | OK |
| 82 | CCB19 | CCB19 | CCB | 10/14/24 14:34 | | Mohan | OK |
| 83 | P4385-20MSD | SP-10MSD | MSD | 10/14/24 14:36 | | Mohan | OK |
| 84 | P4393-01 | BUST-DEBRIS | SAM | 10/14/24 14:38 | | Mohan | OK |
| 85 | P4394-01 | WASH-DEBRIS | SAM | 10/14/24 14:41 | | Mohan | OK |
| 86 | P4395-01 | F05308-SOLID | SAM | 10/14/24 14:43 | | Mohan | OK |
| 87 | P4364-16L | SB-08-0.167-0.667L | SD | 10/14/24 14:45 | | Mohan | OK |
| 88 | P4364-16A | SB-08-0.167-0.667A | PS | 10/14/24 14:47 | | Mohan | OK |
| 89 | P4375-01L | CONCRETE-PADS-1L | SD | 10/14/24 14:50 | | Mohan | OK |
| 90 | P4375-01A | CONCRETE-PADS-1A | PS | 10/14/24 14:52 | | Mohan | OK |
| 91 | P4385-20L | SP-10L | SD | 10/14/24 14:54 | | Mohan | OK |
| 92 | P4385-20A | SP-10A | PS | 10/14/24 14:57 | | Mohan | OK |
| 93 | CCV20 | CCV20 | CCV | 10/14/24 14:59 | | Mohan | OK |
| 94 | CCB20 | CCB20 | CCB | 10/14/24 15:01 | | Mohan | OK |
| 95 | P4364-04DL | SB-02-0.167-0.667DL | SAM | 10/14/24 15:04 | Report 2X | Mohan | Confirms |
| 96 | P4364-05DL | SB-02-2.0-2.5DL | SAM | 10/14/24 15:06 | Report 2X | Mohan | Confirms |
| 97 | P4364-06DL | SB-02-4.5-5.0DL | SAM | 10/14/24 15:08 | Report 5X | Mohan | Confirms |
| 98 | P4364-07DL | SB-03-0.167-0.667DL | SAM | 10/14/24 15:10 | Report 2X | Mohan | Confirms |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132914

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/14/2024 10:26:20 PM |
| Supervise By | mohan | Supervise On | 10/14/2024 10:27:01 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82765,MP82766,MP82767,MP82768,MP82769,MP82770 |
| ICV Standard | MP82771 |
| CCV Standard | MP82773 |
| ICSA Standard | |
| CRI Standard | MP82775 |
| LCS Standard | |
| Chk Standard | MP82772,MP82774,MP82776,MP82781 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 99 | P4364-10DL | SB-04-0.167-0.667DL | SAM | 10/14/24 15:13 | Report 2X | Mohan | Confirms |
| 100 | CCV21 | CCV21 | CCV | 10/14/24 15:15 | | Mohan | OK |
| 101 | CCB21 | CCB21 | CCB | 10/14/24 15:17 | | Mohan | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132927

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/21/2024 1:52:41 AM |
| Supervise By | mohan | Supervise On | 10/21/2024 1:54:36 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82484 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82484 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 10/14/24 13:40 | | Kareem | OK |
| 2 | S1 | S1 | CAL2 | 10/14/24 13:45 | | Kareem | OK |
| 3 | S2 | S2 | CAL3 | 10/14/24 13:49 | | Kareem | OK |
| 4 | S3 | S3 | CAL4 | 10/14/24 13:53 | | Kareem | OK |
| 5 | S4 | S4 | CAL5 | 10/14/24 13:57 | | Kareem | OK |
| 6 | S5 | S5 | CAL6 | 10/14/24 14:02 | | Kareem | OK |
| 7 | ICV01 | ICV01 | ICV | 10/14/24 14:06 | | Kareem | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 10/14/24 14:18 | | Kareem | OK |
| 9 | ICB01 | ICB01 | ICB | 10/14/24 14:23 | | Kareem | OK |
| 10 | CRI01 | CRI01 | CRDL | 10/14/24 14:27 | | Kareem | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 10/14/24 14:32 | | Kareem | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 10/14/24 14:39 | | Kareem | OK |
| 13 | CCV01 | CCV01 | CCV | 10/14/24 14:43 | | Kareem | OK |
| 14 | CCB01 | CCB01 | CCB | 10/14/24 14:47 | | Kareem | OK |
| 15 | LR1 | LR1 | HIGH STD | 10/14/24 14:53 | | Kareem | OK |
| 16 | LR2 | LR2 | HIGH STD | 10/14/24 14:58 | | Kareem | OK |
| 17 | P4258-03 | Chamberlain Ave | SAM | 10/14/24 15:05 | | Kareem | OK |
| 18 | CCV02 | CCV02 | CCV | 10/14/24 15:09 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132927

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/21/2024 1:52:41 AM |
| Supervise By | mohan | Supervise On | 10/21/2024 1:54:36 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82484 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82484 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | CCB02 | CCB02 | CCB | 10/14/24 15:13 | | Kareem | OK |
| 20 | P4354-01 | 291551 | SAM | 10/14/24 15:19 | | Kareem | OK |
| 21 | P4354-01DUP | 291551DUP | DUP | 10/14/24 15:24 | | Kareem | OK |
| 22 | P4354-01L | 291551L | SD | 10/14/24 15:28 | | Kareem | OK |
| 23 | P4354-01MS | 291551MS | MS | 10/14/24 15:32 | | Kareem | OK |
| 24 | P4354-01MSD | 291551MSD | MSD | 10/14/24 15:37 | | Kareem | OK |
| 25 | P4354-01A | 291551A | PS | 10/14/24 15:41 | | Kareem | OK |
| 26 | P4375-02 | CONCRETE-PADS-1 | SAM | 10/14/24 15:54 | | Kareem | OK |
| 27 | P4375-04 | CONCRETE-PADS-2 | SAM | 10/14/24 15:58 | | Kareem | OK |
| 28 | CCV03 | CCV03 | CCV | 10/14/24 16:03 | | Kareem | OK |
| 29 | CCB03 | CCB03 | CCB | 10/14/24 16:07 | | Kareem | OK |
| 30 | P4375-06 | CONCRETE-PADS-3 | SAM | 10/14/24 16:21 | | Kareem | OK |
| 31 | P4375-08 | CONCRETE-PADS-4 | SAM | 10/14/24 16:26 | | Kareem | OK |
| 32 | P4375-10 | CONCRETE-PADS-5 | SAM | 10/14/24 16:30 | | Kareem | OK |
| 33 | P4375-12 | CONCRETE-PADS-6 | SAM | 10/14/24 16:35 | | Kareem | OK |
| 34 | P4375-14 | CONCRETE-PADS-7 | SAM | 10/14/24 16:39 | | Kareem | OK |
| 35 | P4375-16 | CONCRETE-PADS-8 | SAM | 10/14/24 16:44 | | Kareem | OK |
| 36 | P4375-18 | CONCRETE-PADS-9 | SAM | 10/14/24 16:48 | | Kareem | OK |
| 37 | P4375-20 | CONCRETE-PADS-10 | SAM | 10/14/24 16:53 | | Kareem | OK |
| 38 | P4375-22 | CONCRETE-PADS-11 | SAM | 10/14/24 16:57 | | Kareem | OK |

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Fax : 908 789 8922



**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132927

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/21/2024 1:52:41 AM |
| Supervise By | mohan | Supervise On | 10/21/2024 1:54:36 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82484 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82484 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | P4375-24 | FENCE-POST-1 | SAM | 10/14/24 17:02 | | Kareem | OK |
| 40 | CCV04 | CCV04 | CCV | 10/14/24 17:06 | | Kareem | OK |
| 41 | CCB04 | CCB04 | CCB | 10/14/24 17:11 | | Kareem | OK |
| 42 | P4375-26 | FENCE-POST-2 | SAM | 10/14/24 17:15 | | Kareem | OK |
| 43 | P4375-28 | FENCE-POST-3 | SAM | 10/14/24 17:21 | | Kareem | OK |
| 44 | P4375-28DUP | FENCE-POST-3DUP | DUP | 10/14/24 17:26 | | Kareem | OK |
| 45 | P4375-28L | FENCE-POST-3L | SD | 10/14/24 17:30 | | Kareem | OK |
| 46 | P4375-28MS | FENCE-POST-3MS | MS | 10/14/24 17:34 | | Kareem | OK |
| 47 | P4375-28MSD | FENCE-POST-3MSD | MSD | 10/14/24 17:39 | | Kareem | OK |
| 48 | P4375-28A | FENCE-POST-3A | PS | 10/14/24 17:43 | | Kareem | OK |
| 49 | PB164021TB | PB164021TB | MB | 10/14/24 17:47 | | Kareem | OK |
| 50 | PB164077BL | PB164077BL | MB | 10/14/24 17:52 | | Kareem | OK |
| 51 | PB164077BS | PB164077BS | LCS | 10/14/24 17:56 | | Kareem | OK |
| 52 | CCV05 | CCV05 | CCV | 10/14/24 18:00 | | Kareem | OK |
| 53 | CCB05 | CCB05 | CCB | 10/14/24 18:04 | | Kareem | OK |
| 54 | PB164010TB | PB164010TB | MB | 10/14/24 18:08 | | Kareem | OK |
| 55 | P4393-01 | BUST-DEBRIS | SAM | 10/14/24 18:13 | | Kareem | OK |
| 56 | P4393-01DUP | BUST-DEBRISDUP | DUP | 10/14/24 18:17 | | Kareem | OK |
| 57 | P4393-01L | BUST-DEBRISL | SD | 10/14/24 18:22 | | Kareem | OK |
| 58 | P4393-01MS | BUST-DEBRISMS | MS | 10/14/24 18:26 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132927

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/21/2024 1:52:41 AM |
| Supervise By | mohan | Supervise On | 10/21/2024 1:54:36 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82484 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82484 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 59 | P4393-01MSD | BUST-DEBRISMSD | MSD | 10/14/24 18:30 | | Kareem | OK |
| 60 | P4393-01A | BUST-DEBRISA | PS | 10/14/24 18:34 | | Kareem | OK |
| 61 | P4394-01 | WASH-DEBRIS | SAM | 10/14/24 18:38 | | Kareem | OK |
| 62 | P4395-01 | F05308-SOLID | SAM | 10/14/24 18:42 | | Kareem | OK |
| 63 | PB164106BL | PB164106BL | MB | 10/14/24 18:46 | | Kareem | OK |
| 64 | CCV06 | CCV06 | CCV | 10/14/24 18:51 | | Kareem | OK |
| 65 | CCB06 | CCB06 | CCB | 10/14/24 18:55 | | Kareem | OK |
| 66 | PB164106BS | PB164106BS | LCS | 10/14/24 18:59 | | Kareem | OK |
| 67 | PB163999BL | PB163999BL | MB | 10/14/24 19:03 | | Kareem | OK |
| 68 | PB163999BS | PB163999BS | LCS | 10/14/24 19:07 | | Kareem | OK |
| 69 | CCV07 | CCV07 | CCV | 10/14/24 19:11 | | Kareem | OK |
| 70 | CCB07 | CCB07 | CCB | 10/14/24 19:15 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132951

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/21/2024 1:52:32 AM |
| Supervise By | mohan | Supervise On | 10/21/2024 1:54:55 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82484 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82484 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 10/15/24 10:42 | | Kareem | OK |
| 2 | S1 | S1 | CAL2 | 10/15/24 10:47 | | Kareem | OK |
| 3 | S2 | S2 | CAL3 | 10/15/24 10:51 | | Kareem | OK |
| 4 | S3 | S3 | CAL4 | 10/15/24 10:55 | | Kareem | OK |
| 5 | S4 | S4 | CAL5 | 10/15/24 10:59 | | Kareem | OK |
| 6 | S5 | S5 | CAL6 | 10/15/24 11:03 | | Kareem | OK |
| 7 | ICV01 | ICV01 | ICV | 10/15/24 11:24 | | Kareem | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 10/15/24 11:37 | | Kareem | OK |
| 9 | ICB01 | ICB01 | ICB | 10/15/24 11:41 | | Kareem | OK |
| 10 | CRI01 | CRI01 | CRDL | 10/15/24 11:46 | | Kareem | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 10/15/24 11:50 | | Kareem | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 10/15/24 12:03 | | Kareem | OK |
| 13 | ICSADL | ICSADL | ICSA | 10/15/24 12:10 | | Kareem | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 10/15/24 12:20 | | Kareem | OK |
| 15 | CCV01 | CCV01 | CCV | 10/15/24 12:26 | | Kareem | OK |
| 16 | CCB01 | CCB01 | CCB | 10/15/24 12:30 | | Kareem | OK |
| 17 | LR1 | LR1 | HIGH STD | 10/15/24 12:34 | | Kareem | OK |
| 18 | LR2 | LR2 | HIGH STD | 10/15/24 12:39 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132951

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/21/2024 1:52:32 AM |
| Supervise By | mohan | Supervise On | 10/21/2024 1:54:55 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82484 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82484 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4271-07DL | 14B-(1-4)-COMPDL | SAM | 10/15/24 12:52 | NOT USE | Kareem | Not Ok |
| 20 | P4271-07DL2 | 14B-(1-4)-COMPDL2 | SAM | 10/15/24 13:02 | 10x for Mn | Kareem | Confirms |
| 21 | PB164065BS | PB164065BS | LCS | 10/15/24 13:06 | | Kareem | OK |
| 22 | P4385-18 | SP-9 | SAM | 10/15/24 13:10 | | Kareem | OK |
| 23 | P4385-20 | SP-10 | SAM | 10/15/24 13:14 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 24 | P4385-20DUP | SP-10DUP | DUP | 10/15/24 13:18 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 25 | CCV02 | CCV02 | CCV | 10/15/24 13:23 | | Kareem | OK |
| 26 | CCB02 | CCB02 | CCB | 10/15/24 13:27 | | Kareem | OK |
| 27 | P4385-20L | SP-10L | SD | 10/15/24 13:31 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 28 | P4385-20MS | SP-10MS | MS | 10/15/24 13:35 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 29 | P4385-20MSD | SP-10MSD | MSD | 10/15/24 13:39 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 30 | P4385-20A | SP-10A | PS | 10/15/24 13:43 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 31 | CCV03 | CCV03 | CCV | 10/15/24 14:07 | | Kareem | OK |
| 32 | CCB03 | CCB03 | CCB | 10/15/24 14:11 | | Kareem | OK |
| 33 | PB164065BL | PB164065BL | MB | 10/15/24 14:26 | | Kareem | OK |
| 34 | P4382-01 | DECON-DRUM | SAM | 10/15/24 14:30 | | Kareem | OK |
| 35 | CCV04 | CCV04 | CCV | 10/15/24 14:35 | | Kareem | OK |
| 36 | CCB04 | CCB04 | CCB | 10/15/24 14:39 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132951

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/21/2024 1:52:32 AM |
| Supervise By | mohan | Supervise On | 10/21/2024 1:54:55 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82484 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82484 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 37 | P4385-02 | SP-1 | SAM | 10/15/24 14:43 | | Kareem | OK |
| 38 | P4385-04 | SP-2 | SAM | 10/15/24 14:48 | | Kareem | OK |
| 39 | P4385-06 | SP-3 | SAM | 10/15/24 14:52 | | Kareem | OK |
| 40 | P4385-08 | SP-4 | SAM | 10/15/24 14:56 | | Kareem | OK |
| 41 | P4385-10 | SP-5 | SAM | 10/15/24 15:01 | | Kareem | OK |
| 42 | P4385-12 | SP-6 | SAM | 10/15/24 15:05 | | Kareem | OK |
| 43 | P4385-14 | SP-7 | SAM | 10/15/24 15:09 | | Kareem | OK |
| 44 | P4385-16 | SP-8 | SAM | 10/15/24 15:13 | | Kareem | OK |
| 45 | P4370-02 | COMP | SAM | 10/15/24 15:18 | | Kareem | OK |
| 46 | P4396-01 | WASTE-WATER-FRA | SAM | 10/15/24 15:22 | | Kareem | OK |
| 47 | CCV05 | CCV05 | CCV | 10/15/24 15:26 | | Kareem | OK |
| 48 | CCB05 | CCB05 | CCB | 10/15/24 15:30 | | Kareem | OK |
| 49 | P4396-01DUP | WASTE-WATER-FRA | DUP | 10/15/24 15:35 | | Kareem | OK |
| 50 | P4396-01L | WASTE-WATER-FRA | SD | 10/15/24 15:39 | | Kareem | OK |
| 51 | P4396-01MS | WASTE-WATER-FRA | MS | 10/15/24 15:43 | | Kareem | OK |
| 52 | P4396-01MSD | WASTE-WATER-FRA | MSD | 10/15/24 15:47 | | Kareem | OK |
| 53 | P4396-01A | WASTE-WATER-FRA | PS | 10/15/24 15:51 | | Kareem | OK |
| 54 | PB164099BL | PB164099BL | MB | 10/15/24 15:55 | | Kareem | OK |
| 55 | PB164099BS | PB164099BS | LCS | 10/15/24 15:59 | | Kareem | OK |
| 56 | P4364-01 | SB-01-1.0-1.5 | SAM | 10/15/24 16:03 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132951

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/21/2024 1:52:32 AM |
| Supervise By | mohan | Supervise On | 10/21/2024 1:54:55 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82484 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82484 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 57 | P4364-02 | SB-01-2.5-3.0 | SAM | 10/15/24 16:08 | | Kareem | OK |
| 58 | P4364-03 | SB-01-4.25-4.83 | SAM | 10/15/24 16:13 | | Kareem | OK |
| 59 | CCV06 | CCV06 | CCV | 10/15/24 16:17 | | Kareem | OK |
| 60 | CCB06 | CCB06 | CCB | 10/15/24 16:21 | | Kareem | OK |
| 61 | P4400-01 | NB-08-101424 | SAM | 10/15/24 16:26 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 62 | P4400-01DUP | NB-08-101424DUP | DUP | 10/15/24 16:30 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 63 | P4400-01L | NB-08-101424L | SD | 10/15/24 16:34 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 64 | P4400-01MS | NB-08-101424MS | MS | 10/15/24 16:39 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 65 | P4400-01MSD | NB-08-101424MSD | MSD | 10/15/24 16:43 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 66 | P4400-01A | NB-08-101424A | PS | 10/15/24 16:47 | MS/MSD fail for more than 50% parameters | Kareem | Not Ok |
| 67 | P4364-04 | SB-02-0.167-0.667 | SAM | 10/15/24 16:52 | | Kareem | OK |
| 68 | P4364-05 | SB-02-2.0-2.5 | SAM | 10/15/24 16:56 | | Kareem | OK |
| 69 | P4364-06 | SB-02-4.5-5.0 | SAM | 10/15/24 17:01 | | Kareem | OK |
| 70 | P4364-07 | SB-03-0.167-0.667 | SAM | 10/15/24 17:05 | | Kareem | OK |
| 71 | CCV07 | CCV07 | CCV | 10/15/24 17:14 | | Kareem | OK |
| 72 | CCB07 | CCB07 | CCB | 10/15/24 17:18 | | Kareem | OK |
| 73 | P4364-08 | SB-03-2.0-2.5 | SAM | 10/15/24 17:23 | | Kareem | OK |
| 74 | P4364-09 | SB-03-4.167-4.667 | SAM | 10/15/24 17:27 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132951

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/21/2024 1:52:32 AM |
| Supervise By | mohan | Supervise On | 10/21/2024 1:54:55 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82484 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82484 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 75 | P4364-10 | SB-04-0.167-0.667 | SAM | 10/15/24 17:31 | | Kareem | OK |
| 76 | P4364-11 | SB-04-2.0-2.5 | SAM | 10/15/24 17:36 | Not used | Kareem | Not Ok |
| 77 | P4364-12 | SB-04-4.5-5.0 | SAM | 10/15/24 17:41 | | Kareem | OK |
| 78 | P4364-13 | SB-05-0.167-0.667 | SAM | 10/15/24 17:45 | Ca high | Kareem | Dilution |
| 79 | CCV08 | CCV08 | CCV | 10/15/24 17:49 | | Kareem | OK |
| 80 | CCB08 | CCB08 | CCB | 10/15/24 17:53 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133014

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/21/2024 1:53:28 AM |
| Supervise By | mohan | Supervise On | 10/21/2024 1:54:16 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82484 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82484 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 10/18/24 12:03 | | Kareem | OK |
| 2 | S1 | S1 | CAL2 | 10/18/24 12:07 | | Kareem | OK |
| 3 | S2 | S2 | CAL3 | 10/18/24 12:12 | | Kareem | OK |
| 4 | S3 | S3 | CAL4 | 10/18/24 12:16 | | Kareem | OK |
| 5 | S4 | S4 | CAL5 | 10/18/24 12:20 | | Kareem | OK |
| 6 | S5 | S5 | CAL6 | 10/18/24 12:24 | | Kareem | OK |
| 7 | ICV01 | ICV01 | ICV | 10/18/24 13:08 | ICV fail for Al,Cr,Cu,Ag,Tl,Zn (200.7) | Kareem | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 10/18/24 13:13 | | Kareem | OK |
| 9 | ICB01 | ICB01 | ICB | 10/18/24 13:23 | | Kareem | OK |
| 10 | CRI01 | CRI01 | CRDL | 10/18/24 13:27 | | Kareem | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 10/18/24 13:32 | | Kareem | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 10/18/24 13:56 | | Kareem | OK |
| 13 | CCV01 | CCV01 | CCV | 10/18/24 14:00 | | Kareem | OK |
| 14 | CCB01 | CCB01 | CCB | 10/18/24 14:05 | | Kareem | OK |
| 15 | P3846-05DL | PT-MIN2-WPDL | SAM | 10/18/24 14:19 | 2x for Ca,Na | Kareem | Confirms |
| 16 | P3847-05DL | PT-MIN2-WPDL | SAM | 10/18/24 14:49 | 2x for Ca,Na | Kareem | Confirms |
| 17 | CCV02 | CCV02 | CCV | 10/18/24 14:53 | | Kareem | OK |
| 18 | CCB02 | CCB02 | CCB | 10/18/24 14:57 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133014

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/21/2024 1:53:28 AM |
| Supervise By | mohan | Supervise On | 10/21/2024 1:54:16 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82484 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82484 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | LR1 | LR1 | HIGH STD | 10/18/24 15:02 | | Kareem | OK |
| 20 | LR2 | LR2 | HIGH STD | 10/18/24 15:07 | | Kareem | OK |
| 21 | P4385-20 | SP-10 | SAM | 10/18/24 15:11 | | Kareem | OK |
| 22 | P4385-20DUP | SP-10DUP | DUP | 10/18/24 15:16 | | Kareem | OK |
| 23 | P4385-20L | SP-10L | SD | 10/18/24 15:20 | | Kareem | OK |
| 24 | P4385-20MS | SP-10MS | MS | 10/18/24 15:24 | | Kareem | OK |
| 25 | P4385-20MSD | SP-10MSD | MSD | 10/18/24 15:28 | | Kareem | OK |
| 26 | P4385-20A | SP-10A | PS | 10/18/24 15:32 | | Kareem | OK |
| 27 | CCV03 | CCV03 | CCV | 10/18/24 16:05 | | Kareem | OK |
| 28 | CCB03 | CCB03 | CCB | 10/18/24 16:39 | | Kareem | OK |
| 29 | P4405-01DL | MH-121DL | SAM | 10/18/24 16:43 | 5x for Na | Kareem | Confirms |
| 30 | P4421-01 | EO-02-101624 | SAM | 10/18/24 17:15 | NOT USE | Kareem | Not Ok |
| 31 | P4422-01 | EO-01-101624 | SAM | 10/18/24 17:19 | NOT USE | Kareem | Not Ok |
| 32 | P4431-01 | 72-11934 | SAM | 10/18/24 17:23 | NOT USE | Kareem | Not Ok |
| 33 | CCV04 | CCV04 | CCV | 10/18/24 17:28 | CCV fail for Fe,Mg,Mn | Kareem | OK |
| 34 | CCB04 | CCB04 | CCB | 10/18/24 17:32 | | Kareem | OK |

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

PB164065

**SOP ID :** M3050B-Digestion-20

**SDG No :** N/A

**Matrix :** SOIL

**Pippete ID:** ICP A

**Balance ID :** M SC-2

**Filter paper ID :** N/A

**pH Strip ID :** N/A

**Hood ID :** #3

**Block ID:** 1. HOT BLOCK #3 2. N/A

**Start Digest Date:** 10/11/2024 **Time :** 09:05 **Temp :** 95 °C

**End Digest Date:** 10/11/2024 **Time :** 11:15 **Temp :** 96 °C

**Digestion tube ID:** M6054

**Block thermometer ID:** MET-DIG. #3

**Dig Technician Signature:** jpp

**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 # 3 Cell # 30 Temp: 95 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/11/24 11:30 | jpp Met dig | |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

**PB164065**

| Lab Sample ID | Client Sample ID | pH | Initial Weight (g) | Final Vol (ml) | Color Before | Color After | Texture | Artifact | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| P4258-03 | CHAMBERLAIN AVE | N/A | 2.14 | 100 | Brown | Yellow | Medium | N/A | N/A | 1 |
| P4385-02 | SP-1 | N/A | 2.26 | 100 | Brown | Yellow | Medium | N/A | N/A | 2 |
| P4385-04 | SP-2 | N/A | 2.22 | 100 | Brown | Yellow | Medium | N/A | N/A | 3 |
| P4385-06 | SP-3 | N/A | 2.40 | 100 | Brown | Yellow | Medium | N/A | N/A | 4 |
| P4385-08 | SP-4 | N/A | 2.32 | 100 | Brown | Yellow | Medium | N/A | N/A | 5 |
| P4385-10 | SP-5 | N/A | 2.31 | 100 | Brown | Yellow | Medium | N/A | N/A | 6 |
| P4385-12 | SP-6 | N/A | 2.28 | 100 | Brown | Yellow | Medium | N/A | N/A | 7 |
| P4385-14 | SP-7 | N/A | 2.23 | 100 | Brown | Yellow | Medium | N/A | N/A | 8 |
| P4385-16 | SP-8 | N/A | 2.24 | 100 | Brown | Yellow | Medium | N/A | N/A | 9 |
| P4385-18 | SP-9 | N/A | 2.28 | 100 | Brown | Yellow | Medium | N/A | N/A | 10 |
| P4385-20 | SP-10 | N/A | 2.24 | 100 | Brown | Yellow | Medium | N/A | N/A | 11 |
| P4385-20MS | SP-10MS | N/A | 2.11 | 100 | Brown | Yellow | Medium | N/A | M6000,M6009 | 13 |
| P4385-20MSD | SP-10MSD | N/A | 2.31 | 100 | Brown | Yellow | Medium | N/A | M6000,M6009 | 14 |
| P4385-20DUP | SP-10DUP | N/A | 2.31 | 100 | Brown | Yellow | Medium | N/A | N/A | 12 |
| PB164065BL | PBS065 | N/A | 2.46 | 100 | Colorless | Colorless | Fine | N/A | N/A | 15 |
| PB164065BS | LCS065 | N/A | 2.46 | 100 | Colorless | Colorless | Fine | N/A | M6000,M6009 | 16 |

Alliance TECHNICAL GROUP

## Soil/Sludge Mercury Preparation Sheet

PB164114

**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:** 10/11/2024 **Time :** 13:30 **Temp :** 95 °C

**End Digest Date:** 10/11/2024 **Time :** 14:00 **Temp :** 95 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** HG-DIG#3

**Dig Technician Signature:** MB

**Supervisor Signature:** TL

**Temp :** 1. 95°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 30mL | MP82771 |
| CCV | 30mL | MP82773 |
| CRA | 30mL | MP82775 |
| Blank Spike | 0.48mL | MP82764 |
| Matrix Spike | 0.48mL | MP82764 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| AQUA REGIA | 1.5mL | MP82777 |
| 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 | MP82765 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 30mL | MP82766 |
| 2.5 ppb | S2.5 | 30mL | MP82767 |
| 5.0 ppb | S5.0 | 30mL | MP82768 |
| 7.5 ppb | S7.5 | 30mL | MP82769 |
| 10.0 ppb | S10.0 | 30mL | MP82770 |
| ICV | ICV | 30mL | MP82771 |
| ICB | ICB | 30mL | MP82772 |
| CCV | CCV | 30mL | MP82773 |
| CCB | CCB | 30mL | MP82774 |
| CRI | CRI | 30mL | MP82775 |
| CHK STD | CHK STD | 30mL | MP82776 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/11/24 @ 14:40 | MB - Dig. Lab | MB - Metal Lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Soil/Sludge Mercury Preparation Sheet

## PB164114

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| P4258-03 | CHAMBERLAIN AVE | 0.54 | 35 | NA | N/A | 3-1 |
| P4364-01 | SB-01-1.0-1.5 | 0.57 | 35 | NA | N/A | 2 |
| P4364-02 | SB-01-2.5-3.0 | 0.52 | 35 | NA | N/A | 3 |
| P4364-03 | SB-01-4.25-4.83 | 0.52 | 35 | NA | N/A | 4 |
| P4364-04 | SB-02-0.167-0.667 | 0.58 | 35 | NA | N/A | 5 |
| P4364-05 | SB-02-2.0-2.5 | 0.53 | 35 | NA | N/A | 6 |
| P4364-06 | SB-02-4.5-5.0 | 0.56 | 35 | NA | N/A | 7 |
| P4364-07 | SB-03-0.167-0.667 | 0.60 | 35 | NA | N/A | 8 |
| P4364-08 | SB-03-2.0-2.5 | 0.50 | 35 | NA | N/A | 9 |
| P4364-09 | SB-03-4.167-4.667 | 0.58 | 35 | NA | N/A | 10 |
| P4364-10 | SB-04-0.167-0.667 | 0.54 | 35 | NA | N/A | 11 |
| P4364-11 | SB-04-2.0-2.5 | 0.56 | 35 | NA | N/A | 12 |
| P4364-12 | SB-04-4.5-5.0 | 0.53 | 35 | NA | N/A | 13 |
| P4364-13 | SB-05-0.167-0.667 | 0.52 | 35 | NA | N/A | 14 |
| P4364-14 | SB-06-0.167-0.667 | 0.53 | 35 | NA | N/A | 15 |
| P4364-15 | SB-07-0.167-0.667 | 0.52 | 35 | NA | N/A | 16 |
| P4364-16 | SB-08-0.167-0.667 | 0.54 | 35 | NA | N/A | 17 |
| P4364-16DUP | SB-08-0.167-0.667DUP | 0.56 | 35 | NA | N/A | 18 |
| P4364-16MS | SB-08-0.167-0.667MS | 0.59 | 35 | NA | MP82764 | 19 |
| P4364-16MSD | SB-08-0.167-0.667MSD | 0.56 | 35 | NA | MP82764 | 20 |
| P4376-01 | OR-02-100924 | 0.51 | 35 | NA | N/A | 21 |
| P4377-01 | HD-01-100924 | 0.60 | 35 | NA | N/A | 22 |
| PB164114BL | PBS114 | 0.54 | 35 | NA | N/A | 23 |
| PB164114BS | LCS114 | 0.52 | 35 | NA | MP82764 | 24 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4258 **Order ID:** P4258

**Client:** Roman E&G Corp **Project ID:** Perth Amboy

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : Chamberlain Ave** | | | | | | | | |
| P4258-04 | Chamberlain Ave | TCLP | Barium | 4420 | | 62.8 | 500 | ug/L |
| P4258-04 | Chamberlain Ave | TCLP | Cadmium | 2.16 | J | 0.94 | 30.0 | ug/L |
| P4258-04 | Chamberlain Ave | TCLP | Chromium | 15.7 | J | 6.60 | 50.0 | ug/L |
| P4258-04 | Chamberlain Ave | TCLP | Copper | 217 | | 70.7 | 100 | ug/L |
| P4258-04 | Chamberlain Ave | TCLP | Lead | 170 | | 35.1 | 60.0 | ug/L |
| P4258-04 | Chamberlain Ave | TCLP | Mercury | 1.68 | J | 0.81 | 2.00 | ug/L |
| P4258-04 | Chamberlain Ave | TCLP | Nickel | 27.5 | J | 8.50 | 200 | ug/L |
| P4258-04 | Chamberlain Ave | TCLP | Zinc | 2260 | | 17.5 | 200 | ug/L |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-04 | Matrix: | TCLP |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 34.8 | U | 1 | 34.8 | 100 | ug/L | 10/03/24 13:30 | 10/04/24 12:06 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 4420 | | 1 | 62.8 | 500 | ug/L | 10/03/24 13:30 | 10/04/24 12:06 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 2.16 | J | 1 | 0.94 | 30.0 | ug/L | 10/03/24 13:30 | 10/04/24 12:06 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 15.7 | J | 1 | 6.60 | 50.0 | ug/L | 10/03/24 13:30 | 10/04/24 12:06 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 217 | | 1 | 70.7 | 100 | ug/L | 10/03/24 13:30 | 10/04/24 12:06 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 170 | | 1 | 35.1 | 60.0 | ug/L | 10/03/24 13:30 | 10/04/24 12:06 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 1.68 | J | 1 | 0.81 | 2.00 | ug/L | 10/03/24 12:20 | 10/04/24 11:28 | SW7470A | |
| 7440-02-0 | Nickel | 27.5 | J | 1 | 8.50 | 200 | ug/L | 10/03/24 13:30 | 10/04/24 12:06 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 58.8 | U | 1 | 58.8 | 100 | ug/L | 10/03/24 13:30 | 10/04/24 12:06 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 5.80 | U | 1 | 5.80 | 50.0 | ug/L | 10/03/24 13:30 | 10/04/24 12:06 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 2260 | | 1 | 17.5 | 200 | ug/L | 10/03/24 13:30 | 10/04/24 12:06 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | GROWS Soil-Waste Class | | | | |

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:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB24** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/04/2024 | 10:59 | LB132761 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB71** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/04/2024 | 11:04 | LB132761 |
| **CCB72** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/04/2024 | 11:38 | LB132761 |
| **CCB73** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 10/04/2024 | 12:04 | LB132761 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/04/2024 | 11:06 | LB132811 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/04/2024 | 11:06 | LB132811 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/04/2024 | 11:06 | LB132811 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 11:06 | LB132811 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 11:06 | LB132811 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/04/2024 | 11:06 | LB132811 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 11:06 | LB132811 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 11:06 | LB132811 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 11:06 | LB132811 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 11:06 | LB132811 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| 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 | 10/04/2024 | 11:43 | LB132811 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/04/2024 | 11:43 | LB132811 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/04/2024 | 11:43 | LB132811 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 11:43 | LB132811 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 11:43 | LB132811 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/04/2024 | 11:43 | LB132811 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 11:43 | LB132811 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 11:43 | LB132811 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 11:43 | LB132811 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 11:43 | LB132811 |
| CCB02 | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 12:37 | LB132811 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/04/2024 | 12:37 | LB132811 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/04/2024 | 12:37 | LB132811 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 12:37 | LB132811 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 12:37 | LB132811 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/04/2024 | 12:37 | LB132811 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 12:37 | LB132811 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 12:37 | LB132811 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 12:37 | LB132811 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 12:37 | LB132811 |
| CCB03 | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 13:51 | LB132811 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/04/2024 | 13:51 | LB132811 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/04/2024 | 13:51 | LB132811 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 13:51 | LB132811 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 13:51 | LB132811 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/04/2024 | 13:51 | LB132811 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 13:51 | LB132811 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 13:51 | LB132811 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 13:51 | LB132811 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 13:51 | LB132811 |
| CCB04 | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 15:05 | LB132811 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/04/2024 | 15:05 | LB132811 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/04/2024 | 15:05 | LB132811 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 15:05 | LB132811 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 15:05 | LB132811 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/04/2024 | 15:05 | LB132811 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 15:05 | LB132811 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 15:05 | LB132811 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 15:05 | LB132811 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB04** | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 15:05 | LB132811 |
| **CCB05** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 16:12 | LB132811 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/04/2024 | 16:12 | LB132811 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/04/2024 | 16:12 | LB132811 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 16:12 | LB132811 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 16:12 | LB132811 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/04/2024 | 16:12 | LB132811 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 16:12 | LB132811 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 16:12 | LB132811 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 16:12 | LB132811 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 16:12 | LB132811 |
| **CCB06** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 16:31 | LB132811 |
| | Barium | 100 | +/-100 | U | 100 | P | 10/04/2024 | 16:31 | LB132811 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 10/04/2024 | 16:31 | LB132811 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 16:31 | LB132811 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 16:31 | LB132811 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 10/04/2024 | 16:31 | LB132811 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 16:31 | LB132811 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 10/04/2024 | 16:31 | LB132811 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 10/04/2024 | 16:31 | LB132811 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 10/04/2024 | 16:31 | LB132811 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Instrument:** CV1

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB163851TB** | | **WATER** | | **Batch Number:** | **PB163879** | | **Prep Date:** | **10/03/2024** | |
| | Mercury | 2.00 | <2.00 | U | 2.00 | CV | 10/04/2024 | 11:55 | LB132761 |

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB163879BL** | | **WATER** | | **Batch Number:** | **PB163879** | | **Prep Date:** | **10/03/2024** | |
| | Mercury | 0.20 | <0.20 | U | 0.20 | CV | 10/04/2024 | 11:13 | LB132761 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Instrument:** P4

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB163851TB** | | **WATER** | | **Batch Number:** | **PB163885** | | **Prep Date:** | **10/03/2024** | |
| | Arsenic | 100 | <100 | U | 100 | P | 10/04/2024 | 13:43 | LB132811 |
| | Barium | 500 | <500 | U | 500 | P | 10/04/2024 | 13:43 | LB132811 |
| | Cadmium | 30.0 | <30.0 | U | 30.0 | P | 10/04/2024 | 13:43 | LB132811 |
| | Chromium | 12.6 | <50.0 | J | 50.0 | P | 10/04/2024 | 13:43 | LB132811 |
| | Copper | 100 | <100 | U | 100 | P | 10/04/2024 | 13:43 | LB132811 |
| | Lead | 60.0 | <60.0 | U | 60.0 | P | 10/04/2024 | 13:43 | LB132811 |
| | Nickel | 200 | <200 | U | 200 | P | 10/04/2024 | 13:43 | LB132811 |
| | Selenium | 100 | <100 | U | 100 | P | 10/04/2024 | 13:43 | LB132811 |
| | Silver | 50.0 | <50.0 | U | 50.0 | P | 10/04/2024 | 13:43 | LB132811 |
| | Zinc | 200 | <200 | U | 200 | P | 10/04/2024 | 13:43 | LB132811 |

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB163885BL** | | **WATER** | | **Batch Number:** | **PB163885** | | **Prep Date:** | **10/03/2024** | |
| | Arsenic | 100 | <100 | U | 100 | P | 10/04/2024 | 13:32 | LB132811 |
| | Barium | 500 | <500 | U | 500 | P | 10/04/2024 | 13:32 | LB132811 |
| | Cadmium | 30.0 | <30.0 | U | 30.0 | P | 10/04/2024 | 13:32 | LB132811 |
| | Chromium | 50.0 | <50.0 | U | 50.0 | P | 10/04/2024 | 13:32 | LB132811 |
| | Copper | 100 | <100 | U | 100 | P | 10/04/2024 | 13:32 | LB132811 |
| | Lead | 60.0 | <60.0 | U | 60.0 | P | 10/04/2024 | 13:32 | LB132811 |
| | Nickel | 200 | <200 | U | 200 | P | 10/04/2024 | 13:32 | LB132811 |
| | Selenium | 100 | <100 | U | 100 | P | 10/04/2024 | 13:32 | LB132811 |
| | Silver | 50.0 | <50.0 | U | 50.0 | P | 10/04/2024 | 13:32 | LB132811 |
| | Zinc | 200 | <200 | U | 200 | P | 10/04/2024 | 13:32 | LB132811 |

# METAL CALIBRATION DATA

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV24 | Mercury | 4.01 | 4.0 | 100 | 90 - 110 | CV | 10/04/2024 | 10:55 | LB132761 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV71 | Mercury | 4.97 | 5.0 | 99 | 90 - 110 | CV | 10/04/2024 | 11:02 | LB132761 |
| CCV72 | Mercury | 5.36 | 5.0 | 107 | 90 - 110 | CV | 10/04/2024 | 11:35 | LB132761 |
| CCV73 | Mercury | 5.47 | 5.0 | 109 | 90 - 110 | CV | 10/04/2024 | 12:01 | LB132761 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 984 | 1000 | 98 | 90 - 110 | P | 10/04/2024 | 10:45 | LB132811 |
| | Barium | 527 | 520 | 101 | 90 - 110 | P | 10/04/2024 | 10:45 | LB132811 |
| | Cadmium | 498 | 510 | 98 | 90 - 110 | P | 10/04/2024 | 10:45 | LB132811 |
| | Chromium | 531 | 520 | 102 | 90 - 110 | P | 10/04/2024 | 10:45 | LB132811 |
| | Copper | 542 | 510 | 106 | 90 - 110 | P | 10/04/2024 | 10:45 | LB132811 |
| | Lead | 996 | 1000 | 100 | 90 - 110 | P | 10/04/2024 | 10:45 | LB132811 |
| | Nickel | 534 | 530 | 101 | 90 - 110 | P | 10/04/2024 | 10:45 | LB132811 |
| | Selenium | 1020 | 1000 | 102 | 90 - 110 | P | 10/04/2024 | 10:45 | LB132811 |
| | Silver | 259 | 250 | 103 | 90 - 110 | P | 10/04/2024 | 10:45 | LB132811 |
| | Zinc | 1040 | 1000 | 104 | 90 - 110 | P | 10/04/2024 | 10:45 | LB132811 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 22.0 | 20.0 | 110 | 80 - 120 | P | 10/04/2024 | 10:59 | LB132811 |
| | Barium | 108 | 100 | 108 | 80 - 120 | P | 10/04/2024 | 10:59 | LB132811 |
| | Cadmium | 6.37 | 6.0 | 106 | 80 - 120 | P | 10/04/2024 | 10:59 | LB132811 |
| | Chromium | 11.2 | 10.0 | 112 | 80 - 120 | P | 10/04/2024 | 10:59 | LB132811 |
| | Copper | 22.9 | 20.0 | 114 | 80 - 120 | P | 10/04/2024 | 10:59 | LB132811 |
| | Lead | 13.0 | 12.0 | 108 | 80 - 120 | P | 10/04/2024 | 10:59 | LB132811 |
| | Nickel | 41.0 | 40.0 | 103 | 80 - 120 | P | 10/04/2024 | 10:59 | LB132811 |
| | Selenium | 21.1 | 20.0 | 105 | 80 - 120 | P | 10/04/2024 | 10:59 | LB132811 |
| | Silver | 11.9 | 10.0 | 119 | 80 - 120 | P | 10/04/2024 | 10:59 | LB132811 |
| | Zinc | 45.1 | 40.0 | 113 | 80 - 120 | P | 10/04/2024 | 10:59 | LB132811 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 5250 | 5000 | 105 | 90 - 110 | P | 10/04/2024 | 11:39 | LB132811 |
| | Barium | 10300 | 10000 | 103 | 90 - 110 | P | 10/04/2024 | 11:39 | LB132811 |
| | Cadmium | 2590 | 2500 | 103 | 90 - 110 | P | 10/04/2024 | 11:39 | LB132811 |
| | Chromium | 1010 | 1000 | 101 | 90 - 110 | P | 10/04/2024 | 11:39 | LB132811 |
| | Copper | 1310 | 1250 | 105 | 90 - 110 | P | 10/04/2024 | 11:39 | LB132811 |
| | Lead | 5170 | 5000 | 103 | 90 - 110 | P | 10/04/2024 | 11:39 | LB132811 |
| | Nickel | 2590 | 2500 | 104 | 90 - 110 | P | 10/04/2024 | 11:39 | LB132811 |
| | Selenium | 5290 | 5000 | 106 | 90 - 110 | P | 10/04/2024 | 11:39 | LB132811 |
| | Silver | 1270 | 1250 | 102 | 90 - 110 | P | 10/04/2024 | 11:39 | LB132811 |
| | Zinc | 2570 | 2500 | 103 | 90 - 110 | P | 10/04/2024 | 11:39 | LB132811 |
| CCV02 | Arsenic | 5210 | 5000 | 104 | 90 - 110 | P | 10/04/2024 | 12:33 | LB132811 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 10/04/2024 | 12:33 | LB132811 |
| | Cadmium | 2520 | 2500 | 101 | 90 - 110 | P | 10/04/2024 | 12:33 | LB132811 |
| | Chromium | 992 | 1000 | 99 | 90 - 110 | P | 10/04/2024 | 12:33 | LB132811 |
| | Copper | 1310 | 1250 | 105 | 90 - 110 | P | 10/04/2024 | 12:33 | LB132811 |
| | Lead | 5060 | 5000 | 101 | 90 - 110 | P | 10/04/2024 | 12:33 | LB132811 |
| | Nickel | 2540 | 2500 | 102 | 90 - 110 | P | 10/04/2024 | 12:33 | LB132811 |
| | Selenium | 5290 | 5000 | 106 | 90 - 110 | P | 10/04/2024 | 12:33 | LB132811 |
| | Silver | 1280 | 1250 | 103 | 90 - 110 | P | 10/04/2024 | 12:33 | LB132811 |
| | Zinc | 2560 | 2500 | 102 | 90 - 110 | P | 10/04/2024 | 12:33 | LB132811 |
| CCV03 | Arsenic | 5070 | 5000 | 101 | 90 - 110 | P | 10/04/2024 | 13:47 | LB132811 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 10/04/2024 | 13:47 | LB132811 |
| | Cadmium | 2470 | 2500 | 99 | 90 - 110 | P | 10/04/2024 | 13:47 | LB132811 |
| | Chromium | 991 | 1000 | 99 | 90 - 110 | P | 10/04/2024 | 13:47 | LB132811 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 10/04/2024 | 13:47 | LB132811 |
| | Lead | 4940 | 5000 | 99 | 90 - 110 | P | 10/04/2024 | 13:47 | LB132811 |
| | Nickel | 2480 | 2500 | 99 | 90 - 110 | P | 10/04/2024 | 13:47 | LB132811 |
| | Selenium | 5130 | 5000 | 103 | 90 - 110 | P | 10/04/2024 | 13:47 | LB132811 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 10/04/2024 | 13:47 | LB132811 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 10/04/2024 | 13:47 | LB132811 |
| CCV04 | Arsenic | 5320 | 5000 | 106 | 90 - 110 | P | 10/04/2024 | 15:00 | LB132811 |
| | Barium | 10800 | 10000 | 108 | 90 - 110 | P | 10/04/2024 | 15:00 | LB132811 |
| | Cadmium | 2570 | 2500 | 103 | 90 - 110 | P | 10/04/2024 | 15:00 | LB132811 |
| | Chromium | 1040 | 1000 | 104 | 90 - 110 | P | 10/04/2024 | 15:00 | LB132811 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | Copper | 1340 | 1250 | 107 | 90 - 110 | P | 10/04/2024 | 15:00 | LB132811 |
| | Lead | 5170 | 5000 | 103 | 90 - 110 | P | 10/04/2024 | 15:00 | LB132811 |
| | Nickel | 2600 | 2500 | 104 | 90 - 110 | P | 10/04/2024 | 15:00 | LB132811 |
| | Selenium | 5400 | 5000 | 108 | 90 - 110 | P | 10/04/2024 | 15:00 | LB132811 |
| | Silver | 1340 | 1250 | 107 | 90 - 110 | P | 10/04/2024 | 15:00 | LB132811 |
| | Zinc | 2690 | 2500 | 108 | 90 - 110 | P | 10/04/2024 | 15:00 | LB132811 |
| CCV05 | Arsenic | 5190 | 5000 | 104 | 90 - 110 | P | 10/04/2024 | 16:08 | LB132811 |
| | Barium | 10300 | 10000 | 103 | 90 - 110 | P | 10/04/2024 | 16:08 | LB132811 |
| | Cadmium | 2480 | 2500 | 99 | 90 - 110 | P | 10/04/2024 | 16:08 | LB132811 |
| | Chromium | 990 | 1000 | 99 | 90 - 110 | P | 10/04/2024 | 16:08 | LB132811 |
| | Copper | 1300 | 1250 | 104 | 90 - 110 | P | 10/04/2024 | 16:08 | LB132811 |
| | Lead | 5000 | 5000 | 100 | 90 - 110 | P | 10/04/2024 | 16:08 | LB132811 |
| | Nickel | 2510 | 2500 | 101 | 90 - 110 | P | 10/04/2024 | 16:08 | LB132811 |
| | Selenium | 5350 | 5000 | 107 | 90 - 110 | P | 10/04/2024 | 16:08 | LB132811 |
| | Silver | 1300 | 1250 | 104 | 90 - 110 | P | 10/04/2024 | 16:08 | LB132811 |
| | Zinc | 2630 | 2500 | 105 | 90 - 110 | P | 10/04/2024 | 16:08 | LB132811 |
| CCV06 | Arsenic | 5000 | 5000 | 100 | 90 - 110 | P | 10/04/2024 | 16:27 | LB132811 |
| | Barium | 9610 | 10000 | 96 | 90 - 110 | P | 10/04/2024 | 16:27 | LB132811 |
| | Cadmium | 2380 | 2500 | 95 | 90 - 110 | P | 10/04/2024 | 16:27 | LB132811 |
| | Chromium | 916 | 1000 | 92 | 90 - 110 | P | 10/04/2024 | 16:27 | LB132811 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 10/04/2024 | 16:27 | LB132811 |
| | Lead | 4790 | 5000 | 96 | 90 - 110 | P | 10/04/2024 | 16:27 | LB132811 |
| | Nickel | 2410 | 2500 | 96 | 90 - 110 | P | 10/04/2024 | 16:27 | LB132811 |
| | Selenium | 5160 | 5000 | 103 | 90 - 110 | P | 10/04/2024 | 16:27 | LB132811 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 10/04/2024 | 16:27 | LB132811 |
| | Zinc | 2440 | 2500 | 98 | 90 - 110 | P | 10/04/2024 | 16:27 | LB132811 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 | 0.24 | 0.2 | 119 | 40 - 160 | CV | 10/04/2024 | 11:06 | LB132761 |
| CRI01 | Arsenic | 22.1 | 20.0 | 110 | 40 - 160 | P | 10/04/2024 | 11:21 | LB132811 |
| | Barium | 106 | 100 | 106 | 40 - 160 | P | 10/04/2024 | 11:21 | LB132811 |
| | Cadmium | 6.50 | 6.0 | 108 | 40 - 160 | P | 10/04/2024 | 11:21 | LB132811 |
| | Chromium | 11.1 | 10.0 | 111 | 40 - 160 | P | 10/04/2024 | 11:21 | LB132811 |
| | Copper | 22.9 | 20.0 | 115 | 40 - 160 | P | 10/04/2024 | 11:21 | LB132811 |
| | Lead | 15.1 | 12.0 | 126 | 40 - 160 | P | 10/04/2024 | 11:21 | LB132811 |
| | Nickel | 41.2 | 40.0 | 103 | 40 - 160 | P | 10/04/2024 | 11:21 | LB132811 |
| | Selenium | 19.7 | 20.0 | 98 | 40 - 160 | P | 10/04/2024 | 11:21 | LB132811 |
| | Silver | 12.8 | 10.0 | 128 | 40 - 160 | P | 10/04/2024 | 11:21 | LB132811 |
| | Zinc | 44.6 | 40.0 | 112 | 40 - 160 | P | 10/04/2024 | 11:21 | LB132811 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICSA01** | Arsenic | -2.14 | | | -20 | 20 | 10/04/2024 | 11:28 | LB132811 |
| | Barium | 4.37 | 6.0 | 73 | -94 | 106 | 10/04/2024 | 11:28 | LB132811 |
| | Cadmium | 3.58 | 1.0 | 358 | -5 | 7 | 10/04/2024 | 11:28 | LB132811 |
| | Chromium | 54.2 | 52.0 | 104 | 42 | 62 | 10/04/2024 | 11:28 | LB132811 |
| | Copper | -2.85 | 2.0 | 142 | -18 | 22 | 10/04/2024 | 11:28 | LB132811 |
| | Lead | 10.9 | | | -12 | 12 | 10/04/2024 | 11:28 | LB132811 |
| | Nickel | 3.33 | 2.0 | 166 | -38 | 42 | 10/04/2024 | 11:28 | LB132811 |
| | Selenium | -9.22 | | | -20 | 20 | 10/04/2024 | 11:28 | LB132811 |
| | Silver | -6.15 | | | -10 | 10 | 10/04/2024 | 11:28 | LB132811 |
| | Zinc | 3.70 | | | -40 | 40 | 10/04/2024 | 11:28 | LB132811 |
| **ICSAB01** | Arsenic | 103 | 104 | 99 | 88.4 | 120 | 10/04/2024 | 11:34 | LB132811 |
| | Barium | 540 | 537 | 101 | 437 | 637 | 10/04/2024 | 11:34 | LB132811 |
| | Cadmium | 977 | 972 | 100 | 826 | 1120 | 10/04/2024 | 11:34 | LB132811 |
| | Chromium | 566 | 542 | 104 | 460 | 624 | 10/04/2024 | 11:34 | LB132811 |
| | Copper | 509 | 511 | 100 | 434 | 588 | 10/04/2024 | 11:34 | LB132811 |
| | Lead | 59.5 | 49.0 | 121 | 37 | 61 | 10/04/2024 | 11:34 | LB132811 |
| | Nickel | 1030 | 954 | 108 | 810 | 1100 | 10/04/2024 | 11:34 | LB132811 |
| | Selenium | 41.7 | 46.0 | 91 | 26 | 66 | 10/04/2024 | 11:34 | LB132811 |
| | Silver | 221 | 201 | 110 | 170 | 232 | 10/04/2024 | 11:34 | LB132811 |
| | Zinc | 885 | 952 | 93 | 809 | 1095 | 10/04/2024 | 11:34 | LB132811 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Roman E&G Corp **level:** low **sdg no.:** P4258

**contract:** ROMA02 **lab code:** CHEM **case no.:** P4258 **sas no.:** P4258

**matrix:** Water **sample id:** P4276-02 **client id:** VNJ-208MS

**Percent Solids for Sample:** NA **Spiked ID:** P4276-02MS **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 | 4140 | | 100 | U | 4000 | 104 | | P |
| Barium | ug/L | 75 - 125 | 5600 | | 4480 | | 1000 | 112 | | P |
| Cadmium | ug/L | 75 - 125 | 971 | | 5.48 | J | 1000 | 97 | | P |
| Chromium | ug/L | 75 - 125 | 2040 | | 16.2 | J | 2000 | 101 | | P |
| Copper | ug/L | 75 - 125 | 1650 | | 125 | | 1500 | 102 | | P |
| Lead | ug/L | 75 - 125 | 4650 | | 60.0 | U | 5000 | 93 | | P |
| Mercury | ug/L | 75 - 125 | 44.4 | | 2.00 | U | 40.0 | 111 | | CV |
| Nickel | ug/L | 75 - 125 | 2580 | | 22.9 | J | 2500 | 102 | | P |
| Selenium | ug/L | 75 - 125 | 10500 | | 100 | U | 10000 | 105 | | P |
| Silver | ug/L | 75 - 125 | 415 | | 50.0 | U | 380 | 109 | | P |
| Zinc | ug/L | 75 - 125 | 2330 | | 1230 | | 1000 | 110 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Roman E&G Corp **level:** low **sdg no.:** P4258

**contract:** ROMA02 **lab code:** CHEM **case no.:** P4258 **sas no.:** P4258

**matrix:** Water **sample id:** P4276-02 **client id:** VNJ-208MSD

**Percent Solids for Sample:** NA **Spiked ID:** P4276-02MSD **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 | 4080 | | 100 | U | 4000 | 102 | | P |
| Barium | ug/L | 75 - 125 | 5500 | | 4480 | | 1000 | 102 | | P |
| Cadmium | ug/L | 75 - 125 | 947 | | 5.48 | J | 1000 | 94 | | P |
| Chromium | ug/L | 75 - 125 | 2020 | | 16.2 | J | 2000 | 100 | | P |
| Copper | ug/L | 75 - 125 | 1600 | | 125 | | 1500 | 98 | | P |
| Lead | ug/L | 75 - 125 | 4540 | | 60.0 | U | 5000 | 91 | | P |
| Mercury | ug/L | 75 - 125 | 43.7 | | 2.00 | U | 40.0 | 109 | | CV |
| Nickel | ug/L | 75 - 125 | 2520 | | 22.9 | J | 2500 | 100 | | P |
| Selenium | ug/L | 75 - 125 | 10400 | | 100 | U | 10000 | 104 | | P |
| Silver | ug/L | 75 - 125 | 418 | | 50.0 | U | 380 | 110 | | P |
| Zinc | ug/L | 75 - 125 | 2340 | | 1230 | | 1000 | 111 | | P |

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# Metals
## - 5b -

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** Roman E&G Corp **Level:** LOW **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**Matrix:** Water **Sample ID:** P4276-02 **Client ID:** VNJ-208DUP

**Percent Solids for Sample:** NA **Duplicate ID** P4276-02DUP **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 | 4480 | | 4430 | | 1 | | P |
| Cadmium | ug/L | 20 | 5.48 | J | 5.39 | J | 2 | | P |
| Chromium | ug/L | 20 | 16.2 | J | 16.0 | J | 1 | | P |
| Copper | ug/L | 20 | 125 | | 121 | | 3 | | P |
| Lead | ug/L | 20 | 60.0 | U | 60.0 | U | | | P |
| Mercury | ug/L | 20 | 2.00 | U | 0.88 | J | 200.0 | | CV |
| Nickel | ug/L | 20 | 22.9 | J | 22.2 | J | 3 | | P |
| Selenium | ug/L | 20 | 100 | U | 100 | U | | | P |
| Silver | ug/L | 20 | 50.0 | U | 50.0 | U | | | P |
| Zinc | ug/L | 20 | 1230 | | 1220 | | 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

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Roman E&G Corp **Level:** LOW **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**Matrix:** Water **Sample ID:** P4276-02MS **Client ID:** VNJ-208MSD

**Percent Solids for Sample:** NA **Duplicate ID** P4276-02MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 20 | 4140 | | 4080 | | 1 | | P |
| Barium | ug/L | 20 | 5600 | | 5500 | | 2 | | P |
| Cadmium | ug/L | 20 | 971 | | 947 | | 3 | | P |
| Chromium | ug/L | 20 | 2040 | | 2020 | | 1 | | P |
| Copper | ug/L | 20 | 1650 | | 1600 | | 3 | | P |
| Lead | ug/L | 20 | 4650 | | 4540 | | 2 | | P |
| Mercury | ug/L | 20 | 44.4 | | 43.7 | | 2 | | CV |
| Nickel | ug/L | 20 | 2580 | | 2520 | | 2 | | P |
| Selenium | ug/L | 20 | 10500 | | 10400 | | 1 | | P |
| Silver | ug/L | 20 | 415 | | 418 | | 1 | | P |
| Zinc | ug/L | 20 | 2330 | | 2340 | | 0 | | 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:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB163879BS | | | | | | | |
| Mercury | ug/L | 4.0 | 4.07 | | 102 | 80 - 120 | CV |

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## Metals



### LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB163885BS | | | | | | | |
| Arsenic | ug/L | 4000 | 4020 | | 100 | 80 - 120 | P |
| Barium | ug/L | 1000 | 1080 | | 108 | 80 - 120 | P |
| Cadmium | ug/L | 1000 | 986 | | 99 | 80 - 120 | P |
| Chromium | ug/L | 2000 | 2100 | | 105 | 80 - 120 | P |
| Copper | ug/L | 1500 | 1680 | | 112 | 80 - 120 | P |
| Lead | ug/L | 5000 | 5000 | | 100 | 80 - 120 | P |
| Nickel | ug/L | 2500 | 2670 | | 107 | 80 - 120 | P |
| Selenium | ug/L | 10000 | 10200 | | 102 | 80 - 120 | P |
| Silver | ug/L | 380 | 405 | | 107 | 80 - 120 | P |
| Zinc | ug/L | 1000 | 1110 | | 111 | 80 - 120 | P |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

VNJ-208L

**Lab Name:** Chemtech Consulting Group **Contract:** ROMA02

**Lab Code:** CHEM **Lb No.:** lb132811 **Lab Sample ID :** P4276-02L **SDG No.:** P4258

**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 | 4480 | | 4140 | | 8 | | P |
| Cadmium | 5.48 | J | 5.84 | J | 7 | | P |
| Chromium | 16.2 | J | 250 | U | 100.0 | | P |
| Copper | 125 | | 500 | U | 100.0 | | P |
| Lead | 60.0 | U | 300 | U | | | P |
| Mercury | 2.00 | U | 10.0 | U | | | CV |
| Nickel | 22.9 | J | 1000 | U | 100.0 | | P |
| Selenium | 100 | U | 500 | U | | | P |
| Silver | 50.0 | U | 250 | U | | | P |
| Zinc | 1230 | | 1140 | | 7 | | P |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** Roman E&G Corp **Contract:** ROMA02

**Lab code:** CHEM **Case no.:** P4258 **Sas no.:** P4258 **Sdg no.:** P4258

**Instrument id number:** **Method:** **Run number:** LB132761

**Start date:** 10/04/2024 **End date:** 10/04/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1034 | HG |
| S0.2 | S0.2 | 1 | 1036 | HG |
| S2.5 | S2.5 | 1 | 1039 | HG |
| S5 | S5 | 1 | 1041 | HG |
| S7.5 | S7.5 | 1 | 1043 | HG |
| S10 | S10 | 1 | 1052 | HG |
| ICV24 | ICV24 | 1 | 1055 | HG |
| ICB24 | ICB24 | 1 | 1059 | HG |
| CCV71 | CCV71 | 1 | 1102 | HG |
| CCB71 | CCB71 | 1 | 1104 | HG |
| CRA | CRA | 1 | 1106 | HG |
| PB163879BL | PB163879BL | 1 | 1113 | HG |
| PB163879BS | PB163879BS | 1 | 1118 | HG |
| P4258-04 | Chamberlain Ave | 1 | 1128 | HG |
| CCV72 | CCV72 | 1 | 1135 | HG |
| CCB72 | CCB72 | 1 | 1138 | HG |
| P4276-02DUP | VNJ-208DUP | 1 | 1146 | HG |
| P4276-02MS | VNJ-208MS | 1 | 1148 | HG |
| P4276-02MSD | VNJ-208MSD | 1 | 1150 | HG |
| PB163851TB | PB163851TB | 1 | 1155 | HG |
| P4276-02L | VNJ-208L | 5 | 1157 | HG |
| CCV73 | CCV73 | 1 | 1201 | HG |
| CCB73 | CCB73 | 1 | 1204 | HG |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** Roman E&G Corp **Contract:** ROMA02

**Lab code:** CHEM **Case no.:** P4258 **Sas no.:** P4258 **Sdg no.:** P4258

**Instrument id number:** **Method:** **Run number:** LB132811

**Start date:** 10/04/2024 **End date:** 10/04/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1020 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| S1 | S1 | 1 | 1024 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| S2 | S2 | 1 | 1028 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| S3 | S3 | 1 | 1033 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| S4 | S4 | 1 | 1037 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| S5 | S5 | 1 | 1041 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| ICV01 | ICV01 | 1 | 1045 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| LLICV01 | LLICV01 | 1 | 1059 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| ICB01 | ICB01 | 1 | 1106 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CRI01 | CRI01 | 1 | 1121 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| ICSA01 | ICSA01 | 1 | 1128 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| ICSAB01 | ICSAB01 | 1 | 1134 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCV01 | CCV01 | 1 | 1139 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCB01 | CCB01 | 1 | 1143 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| P4258-04 | Chamberlain Ave | 1 | 1206 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| P4276-02DUP | VNJ-208DUP | 1 | 1220 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCV02 | CCV02 | 1 | 1233 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCB02 | CCB02 | 1 | 1237 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| P4276-02L | VNJ-208L | 5 | 1309 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| P4276-02MS | VNJ-208MS | 1 | 1313 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| P4276-02MSD | VNJ-208MSD | 1 | 1317 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| PB163885BL | PB163885BL | 1 | 1332 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| PB163885BS | PB163885BS | 1 | 1336 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| PB163851TB | PB163851TB | 1 | 1343 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCV03 | CCV03 | 1 | 1347 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCB03 | CCB03 | 1 | 1351 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCV04 | CCV04 | 1 | 1500 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCB04 | CCB04 | 1 | 1505 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCV05 | CCV05 | 1 | 1608 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCB05 | CCB05 | 1 | 1612 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCV06 | CCV06 | 1 | 1627 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |
| CCB06 | CCB06 | 1 | 1631 | Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn |

# METAL PREPARATION & INSTRUMENT DATA

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0007850 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | -0.0000920 | 0.0000000 | 0.0000380 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 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 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0001050 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0009530 |
| Lead | 220.353 | 0.0000000 | 0.0003170 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 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 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0006510 | 0.0020500 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001400 | -0.0008600 |
| Nickel | 231.604 | 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 |
| Zinc | 213.800 | 0.0000000 | 0.0009010 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 |
| Copper | 224.700 | 0.0000000 | -0.0047000 | 0.0036100 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0006580 | 0.0000000 | 0.0000000 | 0.0001290 |
| Nickel | 231.604 | 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 |
| Zinc | 213.800 | 0.0000000 | 0.0067600 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Case No.:** P4258 **SAS No.:** P4258

**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 |
| Copper | 224.700 | 0.0000000 | 0.0003840 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | -0.0003610 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 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 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51,K11,K21 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-03** | **Chamberlain Ave** | **SOIL** | | | **10/01/24** | | | **10/01/24** |
| | | | Mercury | 7471B | | 10/11/24 | 10/14/24 | |
| | | | Metals ICP-TAL | 6010D | | 10/11/24 | 10/14/24 | |
| **P4258-04** | **Chamberlain Ave** | **TCLP** | | | **10/01/24** | | | **10/01/24** |
| | | | TCLP Mercury | 7470A | | 10/03/24 | 10/04/24 | |
| | | | TCLP Metals + Cu+Ni+Zn | 6010D | | 10/03/24 | 10/04/24 | |

# METAL PREPARATION & ANALYICAL SUMMARY

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Method:**

**Case No.:** P4258 **SAS No.:** P4258

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB163879** | | | | | | |
| P4258-04 | Chamberlain Ave | SAM | WATER | 10/03/2024 | 3.0 | 30.0 | |
| P4276-02DUP | VNJ-208DUP | DUP | WATER | 10/03/2024 | 3.0 | 30.0 | |
| P4276-02MS | VNJ-208MS | MS | WATER | 10/03/2024 | 3.0 | 30.0 | |
| P4276-02MSD | VNJ-208MSD | MSD | WATER | 10/03/2024 | 3.0 | 30.0 | |
| PB163851TB | PB163851TB | MB | WATER | 10/03/2024 | 3.0 | 30.0 | |
| PB163879BL | PB163879BL | MB | WATER | 10/03/2024 | 30.0 | 30.0 | |
| PB163879BS | PB163879BS | LCS | WATER | 10/03/2024 | 30.0 | 30.0 | |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Roman E&G Corp **SDG No.:** P4258

**Contract:** ROMA02 **Lab Code:** CHEM **Method:**

**Case No.:** P4258 **SAS No.:** P4258

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB163885** | | | | | | |
| P4258-04 | Chamberlain Ave | SAM | WATER | 10/03/2024 | 5.0 | 25.0 | |
| P4276-02DUP | VNJ-208DUP | DUP | WATER | 10/03/2024 | 5.0 | 25.0 | |
| P4276-02MS | VNJ-208MS | MS | WATER | 10/03/2024 | 5.0 | 25.0 | |
| P4276-02MSD | VNJ-208MSD | MSD | WATER | 10/03/2024 | 5.0 | 25.0 | |
| PB163851TB | PB163851TB | MB | WATER | 10/03/2024 | 5.0 | 25.0 | |
| PB163885BL | PB163885BL | MB | WATER | 10/03/2024 | 5.0 | 25.0 | |
| PB163885BS | PB163885BS | LCS | WATER | 10/03/2024 | 5.0 | 25.0 | |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132761

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/4/2024 9:37:00 PM |
| Supervise By | mohan | Supervise On | 10/4/2024 9:37:52 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82656,MP82657,MP82658,MP82659,MP82660,MP82661 |
| ICV Standard | MP82662 |
| CCV Standard | MP82665 |
| ICSA Standard | |
| CRI Standard | MP82693 |
| LCS Standard | |
| Chk Standard | MP82663,MP82666,MP82674,MP82691 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 10/04/24 10:34 | | Mohan | OK |
| 2 | S0.2 | S0.2 | CAL2 | 10/04/24 10:36 | | Mohan | OK |
| 3 | S2.5 | S2.5 | CAL3 | 10/04/24 10:39 | | Mohan | OK |
| 4 | S5 | S5 | CAL4 | 10/04/24 10:41 | | Mohan | OK |
| 5 | S7.5 | S7.5 | CAL5 | 10/04/24 10:43 | | Mohan | OK |
| 6 | S10 | S10 | CAL6 | 10/04/24 10:52 | | Mohan | OK |
| 7 | ICV24 | ICV24 | ICV | 10/04/24 10:55 | | Mohan | OK |
| 8 | ICB24 | ICB24 | ICB | 10/04/24 10:59 | | Mohan | OK |
| 9 | CCV71 | CCV71 | CCV | 10/04/24 11:02 | | Mohan | OK |
| 10 | CCB71 | CCB71 | CCB | 10/04/24 11:04 | | Mohan | OK |
| 11 | CRA | CRA | CRDL | 10/04/24 11:06 | | Mohan | OK |
| 12 | HighStd | HighStd | HIGH STD | 10/04/24 11:09 | | Mohan | OK |
| 13 | ChkStd | ChkStd | SAM | 10/04/24 11:11 | | Mohan | OK |
| 14 | PB163879BL | PB163879BL | MB | 10/04/24 11:13 | | Mohan | OK |
| 15 | PB163879BS | PB163879BS | LCS | 10/04/24 11:18 | | Mohan | OK |
| 16 | P4242-04 | TP-Q | SAM | 10/04/24 11:20 | | Mohan | OK |
| 17 | P4254-04 | MH-147-SLUDGE | SAM | 10/04/24 11:26 | | Mohan | OK |
| 18 | P4258-04 | Chamberlain Ave | SAM | 10/04/24 11:28 | | Mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132761

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/4/2024 9:37:00 PM |
| Supervise By | mohan | Supervise On | 10/4/2024 9:37:52 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82656,MP82657,MP82658,MP82659,MP82660,MP82661 |
| ICV Standard | MP82662 |
| CCV Standard | MP82665 |
| ICSA Standard | |
| CRI Standard | MP82693 |
| LCS Standard | |
| Chk Standard | MP82663,MP82666,MP82674,MP82691 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4270-04 | IB-2 | SAM | 10/04/24 11:31 | | Mohan | OK |
| 20 | P4276-02 | VNJ-208 | SAM | 10/04/24 11:33 | | Mohan | OK |
| 21 | CCV72 | CCV72 | CCV | 10/04/24 11:35 | | Mohan | OK |
| 22 | CCB72 | CCB72 | CCB | 10/04/24 11:38 | | Mohan | OK |
| 23 | P4276-02DUP | VNJ-208DUP | DUP | 10/04/24 11:46 | | Mohan | OK |
| 24 | P4276-02MS | VNJ-208MS | MS | 10/04/24 11:48 | | Mohan | OK |
| 25 | P4276-02MSD | VNJ-208MSD | MSD | 10/04/24 11:50 | | Mohan | OK |
| 26 | PB163851TB | PB163851TB | MB | 10/04/24 11:55 | | Mohan | OK |
| 27 | P4276-02L | VNJ-208L | SD | 10/04/24 11:57 | | Mohan | OK |
| 28 | P4276-02A | VNJ-208A | PS | 10/04/24 11:59 | | Mohan | OK |
| 29 | CCV73 | CCV73 | CCV | 10/04/24 12:01 | | Mohan | OK |
| 30 | CCB73 | CCB73 | CCB | 10/04/24 12:04 | | Mohan | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132811

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 10/7/2024 6:28:26 PM |
| Supervise By | jaswal | Supervise On | 10/7/2024 11:32:57 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82712 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82712 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 10/04/24 10:20 | | Kareem | OK |
| 2 | S1 | S1 | CAL2 | 10/04/24 10:24 | | Kareem | OK |
| 3 | S2 | S2 | CAL3 | 10/04/24 10:28 | | Kareem | OK |
| 4 | S3 | S3 | CAL4 | 10/04/24 10:33 | | Kareem | OK |
| 5 | S4 | S4 | CAL5 | 10/04/24 10:37 | | Kareem | OK |
| 6 | S5 | S5 | CAL6 | 10/04/24 10:41 | | Kareem | OK |
| 7 | ICV01 | ICV01 | ICV | 10/04/24 10:45 | | Kareem | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 10/04/24 10:59 | | Kareem | OK |
| 9 | ICB01 | ICB01 | ICB | 10/04/24 11:06 | | Kareem | OK |
| 10 | CRI01 | CRI01 | CRDL | 10/04/24 11:21 | | Kareem | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 10/04/24 11:28 | | Kareem | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 10/04/24 11:34 | | Kareem | OK |
| 13 | CCV01 | CCV01 | CCV | 10/04/24 11:39 | | Kareem | OK |
| 14 | CCB01 | CCB01 | CCB | 10/04/24 11:43 | | Kareem | OK |
| 15 | LR1 | LR1 | HIGH STD | 10/04/24 11:48 | | Kareem | OK |
| 16 | LR2 | LR2 | HIGH STD | 10/04/24 11:53 | | Kareem | OK |
| 17 | P4242-04 | TP-Q | SAM | 10/04/24 11:58 | Confirm | Kareem | OK |
| 18 | P4254-04 | MH-147-SLUDGE | SAM | 10/04/24 12:02 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132811

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 10/7/2024 6:28:26 PM |
| Supervise By | jaswal | Supervise On | 10/7/2024 11:32:57 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82712 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82712 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4258-04 | Chamberlain Ave | SAM | 10/04/24 12:06 | | Kareem | OK |
| 20 | P4270-04 | IB-2 | SAM | 10/04/24 12:11 | | Kareem | OK |
| 21 | P4276-02 | VNJ-208 | SAM | 10/04/24 12:15 | | Kareem | OK |
| 22 | P4276-02DUP | VNJ-208DUP | DUP | 10/04/24 12:20 | | Kareem | OK |
| 23 | CCV02 | CCV02 | CCV | 10/04/24 12:33 | | Kareem | OK |
| 24 | CCB02 | CCB02 | CCB | 10/04/24 12:37 | | Kareem | OK |
| 25 | P4276-02L | VNJ-208L | SD | 10/04/24 13:09 | | Kareem | OK |
| 26 | P4276-02MS | VNJ-208MS | MS | 10/04/24 13:13 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 27 | P4276-02MSD | VNJ-208MSD | MSD | 10/04/24 13:17 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 28 | P4276-02A | VNJ-208A | PS | 10/04/24 13:22 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 29 | PB163885BL | PB163885BL | MB | 10/04/24 13:32 | | Kareem | OK |
| 30 | PB163885BS | PB163885BS | LCS | 10/04/24 13:36 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 31 | PB163851TB | PB163851TB | MB | 10/04/24 13:43 | | Kareem | OK |
| 32 | CCV03 | CCV03 | CCV | 10/04/24 13:47 | | Kareem | OK |
| 33 | CCB03 | CCB03 | CCB | 10/04/24 13:51 | | Kareem | OK |
| 34 | P4149-01 | S2-1 | SAM | 10/04/24 14:40 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132811

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 10/7/2024 6:28:26 PM |
| Supervise By | jaswal | Supervise On | 10/7/2024 11:32:57 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82712 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82712 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 35 | P4149-02 | S2-2 | SAM | 10/04/24 14:44 | | Kareem | OK |
| 36 | P4149-03 | S2-3 | SAM | 10/04/24 14:48 | | Kareem | OK |
| 37 | P4149-04 | S2-4 | SAM | 10/04/24 14:52 | | Kareem | OK |
| 38 | P4285-01 | OILY-DEBRIS-DRUM | SAM | 10/04/24 14:56 | | Kareem | OK |
| 39 | CCV04 | CCV04 | CCV | 10/04/24 15:00 | | Kareem | OK |
| 40 | CCB04 | CCB04 | CCB | 10/04/24 15:05 | | Kareem | OK |
| 41 | P4288-01 | HR-02-100324 | SAM | 10/04/24 15:09 | | Kareem | OK |
| 42 | P4288-03 | HR-03-100324 | SAM | 10/04/24 15:13 | | Kareem | OK |
| 43 | P4290-01 | IB-4 | SAM | 10/04/24 15:17 | | Kareem | OK |
| 44 | P4290-01DUP | IB-4DUP | DUP | 10/04/24 15:29 | | Kareem | OK |
| 45 | P4290-01L | IB-4L | SD | 10/04/24 15:33 | | Kareem | OK |
| 46 | P4290-01MS | IB-4MS | MS | 10/04/24 15:37 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 47 | P4290-01MSD | IB-4MSD | MSD | 10/04/24 15:41 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 48 | P4290-01A | IB-4A | PS | 10/04/24 15:45 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 49 | PB163906BS | PB163906BS | LCS | 10/04/24 15:49 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 50 | PB163906BL | PB163906BL | MB | 10/04/24 15:53 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132811

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 10/7/2024 6:28:26 PM |
| Supervise By | jaswal | Supervise On | 10/7/2024 11:32:57 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82441,MP82476,MP82477,MP82478,MP82479,MP82712 |
| ICV Standard | MP82485 |
| CCV Standard | MP82488 |
| ICSA Standard | MP82486,MP82487 |
| CRI Standard | MP82712 |
| LCS Standard | |
| Chk Standard | MP82491,MP82492 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 51 | CCV05 | CCV05 | CCV | 10/04/24 16:08 | | Kareem | OK |
| 52 | CCB05 | CCB05 | CCB | 10/04/24 16:12 | | Kareem | OK |
| 53 | P4269-02 | COMP | SAM | 10/04/24 16:18 | | Kareem | OK |
| 54 | P4286-01 | Water Treatment Disc | SAM | 10/04/24 16:22 | | Kareem | OK |
| 55 | CCV06 | CCV06 | CCV | 10/04/24 16:27 | | Kareem | OK |
| 56 | CCB06 | CCB06 | CCB | 10/04/24 16:31 | | Kareem | OK |

Alliance TECHNICAL GROUP

**Water Mercury Preparation Sheet**

PB163879

**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:** 10/03/2024 **Time :** 12:20 **Temp :** 94 °C

**End Digest Date:** 10/03/2024 **Time :** 14:20 **Temp :** 95 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** HG-DIG#3

**Dig Technician Signature:** MB

**Supervisor Signature:** TZ

**Temp :** 1. 94°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 30mL | MP82662 |
| CCV | 30mL | MP82665 |
| CRA | 30mL | MP82673 |
| Blank Spike | 0.48mL | MP82655 |
| Matrix Spike | 0.48mL | MP82655 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| HNO3/H2SO4(1:2) | 2.5mL | MP82651 |
| KMnO4 (5%) | 4.5mL | MP82652 |
| K2S2O8 (5%) | 2.5mL | MP82653 |
| HNO3/H2SO4(1:2) | 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 | MP82656 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 30mL | MP82657 |
| 2.5 ppb | S2.5 | 30mL | MP82658 |
| 5.0 ppb | S5.0 | 30mL | MP82659 |
| 7.5 ppb | S7.5 | 30mL | MP82660 |
| 10.0 ppb | S10.0 | 30mL | MP82661 |
| ICV | ICV | 30mL | MP82662 |
| ICB | ICB | 30mL | MP82663 |
| CCV | CCV | 30mL | MP82665 |
| CCB | CCB | 30mL | MP82666 |
| CRI | CRI | 30mL | MP82673 |
| CHK STD | CHK STD | 30mL | MP82674 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/3/24 @ 15:10 | MB · DIG · Lab | MB · Metal Lab |
| | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

## Water Mercury Preparation Sheet

## PB163879

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 3 | 30 | <2 | N/A | 3-1 |
| P4254-04 | MH-147-SLUDGE | 3 | 30 | <2 | N/A | 2 |
| P4258-04 | CHAMBERLAIN AVE | 3 | 30 | <2 | N/A | 3 |
| P4270-04 | IB-2 | 3 | 30 | <2 | N/A | 4 |
| P4276-02 | VNJ-208 | 3 | 30 | <2 | N/A | 5 |
| P4276-02DUP | VNJ-208DUP | 3 | 30 | <2 | N/A | 6 |
| P4276-02MS | VNJ-208MS | 3 | 30 | <2 | MP82655 | 7 |
| P4276-02MSD | VNJ-208MSD | 3 | 30 | <2 | MP82655 | 8 |
| PB163851TB | PB163851TB | 3 | 30 | <2 | N/A | 9 |
| PB163879BL | PBW879 | 30 | 30 | <2 | N/A | 10 |
| PB163879BS | LCS879 | 30 | 30 | <2 | MP82655 | 11 |

Alliance TECHNICAL GROUP

**Water Metals Preparation Sheet**

PB163885

**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:** 10/03/2024 **Time :** 13:30 **Temp :** 96 °C

**End Digest Date:** 10/03/2024 **Time :** 15:40 **Temp :** 96 °C

**Digestion tube ID:** M6054

**Block thermometer ID:** MET-DIG. #1

**Dig Technician Signature:** JPP

**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 | M6037 |
| 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 #34 : 96 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/3/24 15:45 | JPP / Met digestion | |
| | Preparation Group | Analysis Group |

| Lab Sample ID | Client Sample ID | pH | Initial Vol (ml) | Final Vol (ml) | Color Before | Color After | Clarity Before | Clarity After | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 1 |
| P4254-04 | MH-147-SLUDGE | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 2 |
| P4258-04 | CHAMBERLAIN AVE | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 3 |
| P4270-04 | IB-2 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 4 |
| P4276-02 | VNJ-208 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 5 |
| P4276-02DUP | VNJ-208DUP | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 6 |
| P4276-02MS | VNJ-208MS | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6000,M6009 | 7 |
| P4276-02MSD | VNJ-208MSD | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6000,M6009 | 8 |
| PB163851TB | PB163851TB | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 9 |
| PB163885BL | PBW885 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 10 |
| PB163885BS | LCS885 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6000,M6009 | 11 |

Alliance TECHNICAL GROUP

# TCLP EXTRACTION LOGPAGE

PB163851

**SOP ID :** M1311-TCLP-14

**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 :** 10/02/2024 **Time :** 17:35

**End Prep Date :** 10/03/2024 **Time :** 10:25

**Combination Ratio :** 20

**ZHE Cleaning Batch :** N/A

**Initial Room Temperature:** 23 °C

**Final Room Temperature:** 22 °C

**TCLP Technician Signature :** JP

**Supervisor By :** IZ

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE U | Lot Number |
|---|---|---|
| TCLP-FLUID-1 | N/A | WP108622 |
| HCL-TCLP,1N | N/A | WP108584 |
| HNO3-TCLP,1N | N/A | WP108585 |
| pH Strips | N/A | W1931,W1934,W2350,W2755 |
| pH Strips | N/A | W1937,W1938,W1939,W1940,W1941,W1942 |
| 1 Liter Amber | N/A | 23091 |
| 120ml Plastic bottle | N/A | 21029 |
| 1:1 HNO3 | MP81119 | N/A |

**Extraction Conformance/Non-Conformance Comments:**

Matrix spikes are added after fiftation and before preservation. TUMBLER T-1 checked,30 rpm. p4276-02 is used for MS-MSD Particle size reduction is not required.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/03/24 11:00 | JP / TCLP Room | JPP 10/3 1EXT |
| | Preparation Group | Analysis Group 1ORGDIG |

Alliance TECHNICAL GROUP

## TCLP EXTRACTION LOGPAGE

PB163851

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 01 | 100.02 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4254-04 | MH-147-SLUDGE | 02 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.0 | T-1 |
| P4258-04 | Chamberlain Ave | 03 | 100.04 | 2000 | N/A | N/A | N/A | 5.6 | 1.5 | T-1 |
| P4270-04 | IB-2 | 04 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.0 | T-1 |
| P4276-02 | VNJ-208 | 05 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| PB163851TB | LEB851 | 06 | N/A | 2000 | N/A | N/A | N/A | 4.94 | 1.0 | T-1 |

Alliance TECHNICAL GROUP

**TCLP Solid Determination**

PB163851

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | N/A | N/A | N/A | N/A | 100 | N/A |
| P4254-04 | MH-147-SLUDGE | N/A | N/A | N/A | N/A | 100 | N/A |
| P4258-04 | Chamberlain Ave | N/A | N/A | N/A | N/A | 100 | N/A |
| P4270-04 | IB-2 | N/A | N/A | N/A | N/A | 100 | N/A |
| P4276-02 | VNJ-208 | N/A | N/A | N/A | N/A | 100 | N/A |
| PB163851TB | LEB851 | N/A | N/A | N/A | N/A | N/A | N/A |

Alliance TECHNICAL GROUP

**TCLP Fluid Determination**

PB163851

**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 |
|---|---|---|---|---|---|---|---|
| P4242-04 | TP-Q | 5.02 | 96.5 | 7.6 | 2.0 | #1 | 4.93 |
| P4254-04 | MH-147-SLUDGE | 5.01 | 96.5 | 6.6 | 1.5 | #1 | 4.93 |
| P4258-04 | Chamberlain Ave | 5.03 | 96.5 | 7.6 | 2.0 | #1 | 4.93 |
| P4270-04 | IB-2 | 5.02 | 96.5 | 8.4 | 3.0 | #1 | 4.93 |
| P4276-02 | VNJ-208 | 5.02 | 96.5 | 9.0 | 4.0 | #1 | 4.93 |
| PB163851TB | LEB851 | N/A | N/A | N/A | N/A | #1 | 4.93 |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 11:45 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-01 | Matrix: | SOIL |
| | | % Solid: | 86 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 1.00 | U | 1 | 1.00 | 5.60 | mg/Kg | 10/01/24 14:20 | 10/03/24 10:14 | SM 4500-NH3 B plus G-11 |
| COD | 236 | J | 1 | 64.4 | 581 | mg/Kg | | 10/03/24 11:42 | SM 5220 D-11 |
| Oil and Grease | 46.5 | U | 1 | 46.5 | 145 | mg/Kg | | 10/03/24 14:30 | 1664A |
| Paint Filter | 1.00 | U | 1 | 1.00 | 1.00 | ml/100gm | | 10/02/24 14:00 | 9095B |
| TS | 85.9 | | 1 | 1.00 | 5.00 | % | | 10/02/24 11:00 | SM 2540 B-15 |
| TVS | 2.80 | J | 1 | 1.00 | 10.0 | % | | 10/02/24 15:40 | 160.4 |

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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 11:45 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-02 | Matrix: | WATER |
| | | % Solid: | 0 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| ASTM Ammonia | 0.045 | U | 1 | 0.045 | 0.10 | mg/L | 10/03/24 11:50 | 10/04/24 12:06 | SM 4500-NH3 B plus NH3 G-11 |
| ASTM COD | 44.3 | | 1 | 2.35 | 10.0 | mg/L | | 10/04/24 14:32 | SM 5220 D-11 |
| ASTM Oil and Grease | 0.40 | U | 1 | 0.40 | 5.00 | mg/L | | 10/04/24 10:00 | SW1664A |
| ASTM TS | 54.0 | | 1 | 1.00 | 5.00 | mg/L | | 10/03/24 11:00 | SM 2540 B-15 |

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: | Roman E&G Corp | Date Collected: | 10/01/24 11:45 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-03 | Matrix: | SOIL |
| | | % Solid: | 86 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 16.3 | J | 1 | 0.71 | 69.5 | mg/Kg | | 10/11/24 11:55 | 9056A |
| Hexavalent Chromium | 0.091 | U | 1 | 0.091 | 0.46 | mg/Kg | 10/11/24 08:45 | 10/11/24 11:59 | 7196A |
| pH | 7.64 | H | 1 | 0 | 0 | pH | | 10/01/24 16:37 | 9045D |

Comments: pH result reported at temperature 20.1 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Roman E&G Corp | Date Collected: | 10/01/24 11:45 |
| Project: | Perth Amboy | Date Received: | 10/01/24 |
| Client Sample ID: | Chamberlain Ave | SDG No.: | P4258 |
| Lab Sample ID: | P4258-04 | Matrix: | SOIL |
| | | % Solid: | 100 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Corrosivity | 7.64 | H | 1 | 0 | 0 | pH | | 10/01/24 16:45 | 9045D |
| Ignitability | NO | | 1 | 0 | 0 | oC | | 10/02/24 15:25 | 1030 |
| Reactive Cyanide | 0.0087 | U | 1 | 0.0087 | 0.050 | mg/Kg | 10/03/24 08:20 | 10/03/24 13:22 | 9012B |
| Reactive Sulfide | 1.58 | J | 1 | 0.19 | 10.0 | mg/Kg | 10/01/24 15:35 | 10/02/24 12:53 | 9034 |

Comments: pH result reported at temperature 20.1 °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:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **RunNo.:** LB132689

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| Sample ID: | ICV | | | | | | |
| Corrosivity | | pH | 7.02 | 7 | 100 | 90-110 | 10/01/2024 |
| Sample ID: | CCV1 | | | | | | |
| Corrosivity | | pH | 2.02 | 2.00 | 101 | 90-110 | 10/01/2024 |
| Sample ID: | CCV2 | | | | | | |
| Corrosivity | | pH | 12.02 | 12.00 | 100 | 90-110 | 10/01/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132690 |

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID:** **ICV** | | | | | | |
| pH | pH | 7.01 | 7 | 100 | 90-110 | 10/01/2024 |
| **Sample ID:** **CCV1** | | | | | | |
| pH | pH | 2.01 | 2.00 | 101 | 90-110 | 10/01/2024 |
| **Sample ID:** **CCV2** | | | | | | |
| pH | pH | 12.02 | 12.00 | 100 | 90-110 | 10/01/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132726 |

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| Sample ID: | ICV1 | | | | | | |
| Ammonia as N | | mg/L | 0.97 | 1 | 97 | 90-110 | 10/03/2024 |
| Sample ID: | CCV1 | | | | | | |
| Ammonia as N | | mg/L | 0.94 | 1 | 94 | 90-110 | 10/03/2024 |
| Sample ID: | CCV2 | | | | | | |
| Ammonia as N | | mg/L | 0.96 | 1 | 96 | 90-110 | 10/03/2024 |
| Sample ID: | CCV3 | | | | | | |
| Ammonia as N | | mg/L | 0.94 | 1 | 94 | 90-110 | 10/03/2024 |
| Sample ID: | CCV4 | | | | | | |
| Ammonia as N | | mg/L | 1.1 | 1 | 110 | 90-110 | 10/03/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132735 |

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID:** | **ICV** | | | | | | |
| COD | | mg/L | 49.231 | 50 | 98 | 95-105 | 07/09/2024 |
| **Sample ID:** | **CCV1** | | | | | | |
| COD | | mg/L | 50.213 | 50 | 100 | 95-105 | 10/03/2024 |
| **Sample ID:** | **CCV2** | | | | | | |
| COD | | mg/L | 50.213 | 50 | 100 | 95-105 | 10/03/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132736 |

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID: ICV1** | | | | | | |
| Reactive Cyanide | mg/L | 0.098 | 0.099 | 99 | 85-115 | 10/03/2024 |
| **Sample ID: CCV1** | | | | | | |
| Reactive Cyanide | mg/L | 0.25 | 0.25 | 100 | 90-110 | 10/03/2024 |
| **Sample ID: CCV2** | | | | | | |
| Reactive Cyanide | mg/L | 0.24 | 0.25 | 96 | 90-110 | 10/03/2024 |
| **Sample ID: CCV3** | | | | | | |
| Reactive Cyanide | mg/L | 0.25 | 0.25 | 100 | 90-110 | 10/03/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132768 |

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| Sample ID: | ICV1 | | | | | | |
| ASTM Ammonia | | mg/L | 0.96 | 1 | 96 | 90-110 | 10/04/2024 |
| Sample ID: | CCV1 | | | | | | |
| ASTM Ammonia | | mg/L | 0.99 | 1 | 99 | 90-110 | 10/04/2024 |
| Sample ID: | CCV2 | | | | | | |
| ASTM Ammonia | | mg/L | 0.96 | 1 | 96 | 90-110 | 10/04/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132776 |

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID:** | **ICV** | | | | | | |
| ASTM COD | | mg/L | 49.231 | 50 | 98 | 95-105 | 07/09/2024 |
| **Sample ID:** | **CCV1** | | | | | | |
| ASTM COD | | mg/L | 48.249 | 50 | 96 | 95-105 | 10/04/2024 |
| **Sample ID:** | **CCV2** | | | | | | |
| ASTM COD | | mg/L | 48.249 | 50 | 96 | 95-105 | 10/04/2024 |

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# Initial and Continuing Calibration Verification

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **RunNo.:** LB132885

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID:** ICV1 | | | | | | |
| Bromide | mg/L | 9.8 | 10 | 98 | 90-110 | 09/16/2024 |
| Chloride | mg/L | 2.9 | 3 | 97 | 90-110 | 09/16/2024 |
| Fluoride | mg/L | 2 | 2 | 100 | 90-110 | 09/16/2024 |
| Nitrite | mg/L | 2.9 | 3 | 97 | 90-110 | 09/16/2024 |
| Nitrate | mg/L | 2.4 | 2.5 | 96 | 90-110 | 09/16/2024 |
| Sulfate | mg/L | 14.5 | 15 | 97 | 90-110 | 09/16/2024 |
| Orthophosphate as P | mg/L | 4.9 | 5 | 98 | 90-110 | 09/16/2024 |
| **Sample ID:** CCV1 | | | | | | |
| Bromide | mg/L | 10.1 | 10 | 101 | 90-110 | 10/11/2024 |
| Chloride | mg/L | 3 | 3 | 100 | 90-110 | 10/11/2024 |
| Fluoride | mg/L | 2 | 2 | 100 | 90-110 | 10/11/2024 |
| Nitrite | mg/L | 3 | 3 | 100 | 90-110 | 10/11/2024 |
| Nitrate | mg/L | 2.5 | 2.5 | 100 | 90-110 | 10/11/2024 |
| Sulfate | mg/L | 14.8 | 15 | 99 | 90-110 | 10/11/2024 |
| Orthophosphate as P | mg/L | 5.2 | 5 | 104 | 90-110 | 10/11/2024 |
| **Sample ID:** CCV2 | | | | | | |
| Bromide | mg/L | 10 | 10 | 100 | 90-110 | 10/11/2024 |
| Chloride | mg/L | 3 | 3 | 100 | 90-110 | 10/11/2024 |
| Fluoride | mg/L | 2 | 2 | 100 | 90-110 | 10/11/2024 |
| Nitrite | mg/L | 3 | 3 | 100 | 90-110 | 10/11/2024 |
| Nitrate | mg/L | 2.5 | 2.5 | 100 | 90-110 | 10/11/2024 |
| Sulfate | mg/L | 14.8 | 15 | 99 | 90-110 | 10/11/2024 |
| Orthophosphate as P | mg/L | 5 | 5 | 100 | 90-110 | 10/11/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132887 |

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID: ICV** | | | | | | |
| Hexavalent Chromium | mg/L | 0.502 | 0.5 | 100 | 90-110 | 10/11/2024 |
| **Sample ID: CCV1** | | | | | | |
| Hexavalent Chromium | mg/L | 0.499 | 0.5 | 100 | 90-110 | 10/11/2024 |
| **Sample ID: CCV2** | | | | | | |
| Hexavalent Chromium | mg/L | 0.503 | 0.5 | 101 | 90-110 | 10/11/2024 |
| **Sample ID: CCV3** | | | | | | |
| Hexavalent Chromium | mg/L | 0.499 | 0.5 | 100 | 90-110 | 10/11/2024 |

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# Initial and Continuing Calibration Blank Summary

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **RunNo.:** LB132726

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: ICB1** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 10/03/2024 |
| **Sample ID: CCB1** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 10/03/2024 |
| **Sample ID: CCB2** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 10/03/2024 |
| **Sample ID: CCB3** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 10/03/2024 |
| **Sample ID: CCB4** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 10/03/2024 |

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# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132735 |

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID:** **ICB** | | | | | | | |
| COD | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 07/09/2024 |
| **Sample ID:** **CCB1** | | | | | | | |
| COD | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 10/03/2024 |
| **Sample ID:** **CCB2** | | | | | | | |
| COD | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 10/03/2024 |

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# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132736 |

| 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 | 10/03/2024 |
| **Sample ID: CCB1** | | | | | | | |
| Reactive Cyanide | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 10/03/2024 |
| **Sample ID: CCB2** | | | | | | | |
| Reactive Cyanide | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 10/03/2024 |
| **Sample ID: CCB3** | | | | | | | |
| Reactive Cyanide | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 10/03/2024 |

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# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132768 |

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: ICB1** | | | | | | | |
| ASTM Ammonia | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 10/04/2024 |
| **Sample ID: CCB1** | | | | | | | |
| ASTM Ammonia | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 10/04/2024 |
| **Sample ID: CCB2** | | | | | | | |
| ASTM Ammonia | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 10/04/2024 |

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# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132776 |

| Analyte | | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| Sample ID: | ICB | | | | | | | |
| ASTM COD | | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 07/09/2024 |
| Sample ID: | CCB1 | | | | | | | |
| ASTM COD | | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 10/04/2024 |
| Sample ID: | CCB2 | | | | | | | |
| ASTM COD | | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 10/04/2024 |

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# Initial and Continuing Calibration Blank Summary

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **RunNo.:** LB132885

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: ICB1** | | | | | | | |
| Bromide | mg/L | < 1.0000 | 1.0000 | U | 0.034 | 2 | 09/16/2024 |
| Chloride | mg/L | < 0.3000 | 0.3000 | U | 0.011 | 0.6 | 09/16/2024 |
| Fluoride | mg/L | < 0.2000 | 0.2000 | U | 0.057 | 0.4 | 09/16/2024 |
| Nitrite | mg/L | < 0.3000 | 0.3000 | U | 0.011 | 0.6 | 09/16/2024 |
| Nitrate | mg/L | < 0.2500 | 0.2500 | U | 0.0034 | 0.5 | 09/16/2024 |
| Sulfate | mg/L | < 1.5000 | 1.5000 | U | 0.032 | 3 | 09/16/2024 |
| Orthophosphate as P | mg/L | < 0.5000 | 0.5000 | U | 0.079 | 1 | 09/16/2024 |
| **Sample ID: CCB1** | | | | | | | |
| Bromide | mg/L | < 1.0000 | 1.0000 | U | 0.034 | 2 | 10/11/2024 |
| Chloride | mg/L | < 0.3000 | 0.3000 | U | 0.011 | 0.6 | 10/11/2024 |
| Fluoride | mg/L | < 0.2000 | 0.2000 | U | 0.057 | 0.4 | 10/11/2024 |
| Nitrite | mg/L | < 0.3000 | 0.3000 | U | 0.011 | 0.6 | 10/11/2024 |
| Nitrate | mg/L | < 0.2500 | 0.2500 | U | 0.0034 | 0.5 | 10/11/2024 |
| Sulfate | mg/L | < 1.5000 | 1.5000 | U | 0.032 | 3 | 10/11/2024 |
| Orthophosphate as P | mg/L | < 0.5000 | 0.5000 | U | 0.079 | 1 | 10/11/2024 |
| **Sample ID: CCB2** | | | | | | | |
| Bromide | mg/L | < 1.0000 | 1.0000 | U | 0.034 | 2 | 10/11/2024 |
| Chloride | mg/L | < 0.3000 | 0.3000 | U | 0.011 | 0.6 | 10/11/2024 |
| Fluoride | mg/L | < 0.2000 | 0.2000 | U | 0.057 | 0.4 | 10/11/2024 |
| Nitrite | mg/L | < 0.3000 | 0.3000 | U | 0.011 | 0.6 | 10/11/2024 |
| Nitrate | mg/L | < 0.2500 | 0.2500 | U | 0.0034 | 0.5 | 10/11/2024 |
| Sulfate | mg/L | < 1.5000 | 1.5000 | U | 0.032 | 3 | 10/11/2024 |
| Orthophosphate as P | mg/L | < 0.5000 | 0.5000 | U | 0.079 | 1 | 10/11/2024 |

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# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **RunNo.:** | LB132887 |

| 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 |
| **Sample ID: CCB3** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0027 | 0.01 | 10/11/2024 |

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# Preparation Blank Summary

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID:** LB132705BL | | | | | | | |
| TS | % | < 2.5000 | 2.5000 | U | 1 | 5 | 10/02/2024 |
| **Sample ID:** LB132707BL | | | | | | | |
| TVS | % | < 5.0000 | 5.0000 | U | 1 | 10 | 10/02/2024 |
| **Sample ID:** LB132729BL | | | | | | | |
| ASTM TS | mg/L | < 2.5000 | 2.5000 | U | 1 | 5 | 10/03/2024 |
| **Sample ID:** LB132735BL | | | | | | | |
| COD | mg/Kg | 55.6 | 250.0000 | J | 55.4 | 500 | 10/03/2024 |
| **Sample ID:** LB132745BL | | | | | | | |
| Oil and Grease | mg/Kg | < 62.5000 | 62.5000 | U | 40.0 | 125 | 10/03/2024 |
| **Sample ID:** LB132756BL | | | | | | | |
| ASTM Oil and Grease | mg/L | < 2.5000 | 2.5000 | U | 0.4 | 5.0 | 10/04/2024 |
| **Sample ID:** LB132776BL | | | | | | | |
| ASTM COD | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10.0 | 10/04/2024 |
| **Sample ID:** LB132885BLS | | | | | | | |
| Bromide | mg/Kg | < 20.0000 | 20.0000 | U | 0.49 | 40 | 10/11/2024 |
| Chloride | mg/Kg | < 6.0000 | 6.0000 | U | 0.096 | 12 | 10/11/2024 |
| Fluoride | mg/Kg | < 4.0000 | 4.0000 | U | 0.38 | 8 | 10/11/2024 |
| Nitrite | mg/Kg | < 6.0000 | 6.0000 | U | 0.19 | 12 | 10/11/2024 |
| Nitrate | mg/Kg | < 5.0000 | 5.0000 | U | 0.089 | 10 | 10/11/2024 |
| Sulfate | mg/Kg | < 30.0000 | 30.0000 | U | 0.61 | 60 | 10/11/2024 |
| Orthophosphate as P | mg/Kg | < 10.0000 | 10.0000 | U | 0.24 | 20 | 10/11/2024 |
| **Sample ID:** PB163759BL | | | | | | | |
| Reactive Sulfide | mg/Kg | < 5.0000 | 5.0000 | U | 0.186 | 10 | 10/02/2024 |
| **Sample ID:** PB163850BL | | | | | | | |
| Ammonia as N | mg/Kg | < 2.5000 | 2.5000 | U | 0.9 | 5 | 10/03/2024 |
| **Sample ID:** PB163858BL | | | | | | | |
| Reactive Cyanide | mg/Kg | < 0.0250 | 0.0250 | U | 0.0088 | 0.05 | 10/03/2024 |
| **Sample ID:** PB163895BL | | | | | | | |
| ASTM Ammonia | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 10/04/2024 |
| **Sample ID:** PB164052BL | | | | | | | |
| Hexavalent Chromium | mg/Kg | < 0.2000 | 0.2000 | U | 0.079 | 0.4 | 10/11/2024 |

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# Matrix Spike Summary

**Client:** Roman E&G Corp
**SDG No.:** P4258
**Project:** Perth Amboy
**Sample ID:** P4258-01
**Client ID:** Chamberlain AveMS
**Percent Solids for Spike Sample:** 86

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | mg/Kg | 75-125 | 61.7 | | 1.00 | U | 56.4 | 1 | 109 | | 10/03/2024 |
| Oil and Grease | mg/Kg | 78-114 | 75.5 | J | 46.5 | U | 23.3 | 1 | 324 | * | 10/03/2024 |
| COD | mg/Kg | 75-125 | 2860 | | 236 | J | 2910 | 1 | 90 | | 10/03/2024 |

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# Matrix Spike Summary

**Client:** Roman E&G Corp
**SDG No.:** P4258
**Project:** Perth Amboy
**Sample ID:** P4258-01
**Client ID:** Chamberlain AveMSD
**Percent Solids for Spike Sample:** 86

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | mg/Kg | 75-125 | 62.0 | | 1.00 | U | 55.9 | 1 | 111 | | 10/03/2024 |
| Oil and Grease | mg/Kg | 78-114 | 75.4 | J | 46.5 | U | 23.3 | 1 | 324 | * | 10/03/2024 |
| COD | mg/Kg | 75-125 | 2810 | | 236 | J | 2910 | 1 | 88 | | 10/03/2024 |

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# Matrix Spike Summary

**Client:** Roman E&G Corp
**Project:** Perth Amboy
**Client ID:** Chamberlain AveMS

**SDG No.:** P4258
**Sample ID:** P4258-02
**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ASTM COD | mg/L | 75-125 | 88.5 | | 44.3 | | 50.0 | 1 | 88 | | 10/04/2024 |
| ASTM Oil and Grease | mg/L | 78-114 | 20.4 | | 0.40 | U | 20.0 | 1 | 102 | | 10/04/2024 |
| ASTM Ammonia | mg/L | 75-125 | 0.97 | | 0.045 | U | 1 | 1 | 97 | | 10/04/2024 |

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# Matrix Spike Summary

**Client:** Roman E&G Corp
**Project:** Perth Amboy
**Client ID:** Chamberlain AveMSD

**SDG No.:** P4258
**Sample ID:** P4258-02
**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ASTM COD | mg/L | 75-125 | 89.5 | | 44.3 | | 50.0 | 1 | 90 | | 10/04/2024 |
| ASTM Oil and Grease | mg/L | 78-114 | 20.6 | | 0.40 | U | 20.0 | 1 | 103 | | 10/04/2024 |
| ASTM Ammonia | mg/L | 75-125 | 0.97 | | 0.045 | U | 1 | 1 | 97 | | 10/04/2024 |

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# Matrix Spike Summary

**Client:** Roman E&G Corp
**Project:** Perth Amboy
**Client ID:** Chamberlain AveMS

**SDG No.:** P4258
**Sample ID:** P4258-03
**Percent Solids for Spike Sample:** 86

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/Kg | 80-120 | 235 | | 0.57 | U | 230 | 1 | 102 | | 10/11/2024 |
| Chloride | mg/Kg | 80-120 | 77.0 | | 6.70 | J | 69.2 | 1 | 102 | | 10/11/2024 |
| Fluoride | mg/Kg | 80-120 | 48.6 | | 5.40 | J | 46.1 | 1 | 94 | | 10/11/2024 |
| Nitrite | mg/Kg | 80-120 | 70.4 | | 0.22 | U | 69.2 | 1 | 102 | | 10/11/2024 |
| Nitrate | mg/Kg | 80-120 | 58.6 | | 0.10 | U | 57.7 | 1 | 102 | | 10/11/2024 |
| Sulfate | mg/Kg | 80-120 | 353 | | 16.3 | J | 350 | 1 | 96 | | 10/11/2024 |
| Orthophosphate as P | mg/Kg | 80-120 | 114 | | 0.28 | U | 120 | 1 | 95 | | 10/11/2024 |

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# Matrix Spike Summary

**Client:** Roman E&G Corp
**SDG No.:** P4258
**Project:** Perth Amboy
**Sample ID:** P4258-03
**Client ID:** Chamberlain AveMSD
**Percent Solids for Spike Sample:** 86

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/Kg | 80-120 | 238 | | 0.57 | U | 230 | 1 | 104 | | 10/11/2024 |
| Chloride | mg/Kg | 80-120 | 78.4 | | 6.70 | J | 69.5 | 1 | 103 | | 10/11/2024 |
| Fluoride | mg/Kg | 80-120 | 49.4 | | 5.40 | J | 46.3 | 1 | 95 | | 10/11/2024 |
| Nitrite | mg/Kg | 80-120 | 71.1 | | 0.22 | U | 69.5 | 1 | 102 | | 10/11/2024 |
| Nitrate | mg/Kg | 80-120 | 59.2 | | 0.10 | U | 57.9 | 1 | 102 | | 10/11/2024 |
| Sulfate | mg/Kg | 80-120 | 356 | | 16.3 | J | 350 | 1 | 97 | | 10/11/2024 |
| Orthophosphate as P | mg/Kg | 80-120 | 115 | | 0.28 | U | 120 | 1 | 96 | | 10/11/2024 |

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# Matrix Spike Summary

**Client:** Roman E&G Corp
**Project:** Perth Amboy
**Client ID:** HD-01-100924MS
**SDG No.:** P4258
**Sample ID:** P4377-01
**Percent Solids for Spike Sample:** 90.6

| 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 | 1310 | | 0.086 | U | 1420 | 40 | 92 | | 10/11/2024 |

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# Matrix Spike Summary

**Client:** Roman E&G Corp
**Project:** Perth Amboy
**Client ID:** HD-01-100924MS
**SDG No.:** P4258
**Sample ID:** P4377-01
**Percent Solids for Spike Sample:** 90.6

| 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 | 41.8 | | 0.086 | U | 44.2 | 2 | 95 | | 10/11/2024 |

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# Matrix Spike Summary

**Client:** Roman E&G Corp
**Project:** Perth Amboy
**Client ID:** HD-01-100924MS
**SDG No.:** P4258
**Sample ID:** P4377-01
**Percent Solids for Spike Sample:** 90.6

| 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 | 33.9 | | 0.086 | U | 44.2 | 2 | 77 | | 10/11/2024 |

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# Duplicate Sample Summary

**Client:** Roman E&G Corp
**SDG No.:** P4258
**Project:** Perth Amboy
**Sample ID:** P4214-02
**Client ID:** CONCRETE-WC-1DUP
**Percent Solids for Spike Sample:** 100

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Reactive Sulfide | mg/Kg | +/-20 | 3.18 | J | 3.18 | J | 1 | 0 | | 10/02/2024 |

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# Duplicate Sample Summary

**Client:** Roman E&G Corp
**Project:** Perth Amboy
**Client ID:** TP-5DUP

**SDG No.:** P4258
**Sample ID:** P4222-04
**Percent Solids for Spike Sample:** 100

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Reactive Cyanide | mg/Kg | +/-20 | 0.0087 | U | 0.0087 | U | 1 | 0 | | 10/03/2024 |

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# Duplicate Sample Summary

**Client:** Roman E&G Corp
**SDG No.:** P4258
**Project:** Perth Amboy
**Sample ID:** P4258-01
**Client ID:** Chamberlain AveDUP
**Percent Solids for Spike Sample:** 86

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| TS | % | +/-5 | 85.9 | | 86.1 | | 1 | 0.23 | | 10/02/2024 |
| TVS | % | +/-5 | 2.80 | J | 2.70 | J | 1 | 3.64 | | 10/02/2024 |
| Paint Filter | ml/100gm | +/-20 | 1.00 | U | 1.00 | U | 1 | 0 | | 10/02/2024 |
| Ammonia as N | mg/Kg | +/-20 | 1.00 | U | 1.00 | U | 1 | 0 | | 10/03/2024 |
| COD | mg/Kg | +/-20 | 236 | J | 236 | J | 1 | 0 | | 10/03/2024 |
| Oil and Grease | mg/Kg | +/-18 | 46.5 | U | 46.5 | U | 1 | 0 | | 10/03/2024 |

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# Duplicate Sample Summary

**Client:** Roman E&G Corp
**SDG No.:** P4258
**Project:** Perth Amboy
**Sample ID:** P4258-01
**Client ID:** Chamberlain AveMSD
**Percent Solids for Spike Sample:** 86

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | mg/Kg | +/-20 | 61.7 | | 62.0 | | 1 | 0 | | 10/03/2024 |
| COD | mg/Kg | +/-20 | 2860 | | 2810 | | 1 | 1.76 | | 10/03/2024 |
| Oil and Grease | mg/Kg | +/-18 | 75.5 | J | 75.4 | J | 1 | 0.05 | | 10/03/2024 |

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# Duplicate Sample Summary

**Client:** Roman E&G Corp
**SDG No.:** P4258
**Project:** Perth Amboy
**Sample ID:** P4258-02
**Client ID:** Chamberlain AveDUP
**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| ASTM TS | mg/L | +/-5 | 54.0 | | 55.0 | | 1 | 1.83 | | 10/03/2024 |
| ASTM Oil and Grease | mg/L | +/-18 | 0.40 | U | 0.40 | U | 1 | 0 | | 10/04/2024 |
| ASTM Ammonia | mg/L | +/-20 | 0.045 | U | 0.045 | U | 1 | 0 | | 10/04/2024 |
| ASTM COD | mg/L | +/-20 | 44.3 | | 43.3 | | 1 | 2.28 | | 10/04/2024 |

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# Duplicate Sample Summary

**Client:** Roman E&G Corp
**SDG No.:** P4258
**Project:** Perth Amboy
**Sample ID:** P4258-02
**Client ID:** Chamberlain AveMSD
**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| ASTM Oil and Grease | mg/L | +/-18 | 20.4 | | 20.6 | | 1 | 0.98 | | 10/04/2024 |
| ASTM Ammonia | mg/L | +/-20 | 0.97 | | 0.97 | | 1 | 0 | | 10/04/2024 |
| ASTM COD | mg/L | +/-20 | 88.5 | | 89.5 | | 1 | 1.12 | | 10/04/2024 |

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# Duplicate Sample Summary

**Client:** Roman E&G Corp
**Project:** Perth Amboy
**Client ID:** Chamberlain AveDUP

**SDG No.:** P4258
**Sample ID:** P4258-03
**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | pH | +/-20 | 7.64 | | 7.65 | | 1 | 0.13 | | 10/01/2024 |

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# Duplicate Sample Summary

**Client:** Roman E&G Corp
**SDG No.:** P4258
**Project:** Perth Amboy
**Sample ID:** P4258-03
**Client ID:** Chamberlain AveMSD
**Percent Solids for Spike Sample:** 86

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/Kg | +/-15 | 235 | | 238 | | 1 | 1 | | 10/11/2024 |
| Nitrate | mg/Kg | +/-15 | 58.6 | | 59.2 | | 1 | 1 | | 10/11/2024 |
| Nitrite | mg/Kg | +/-15 | 70.4 | | 71.1 | | 1 | 1 | | 10/11/2024 |
| Orthophosphate as P | mg/Kg | +/-15 | 114 | | 115 | | 1 | 1 | | 10/11/2024 |
| Sulfate | mg/Kg | +/-15 | 353 | | 356 | | 1 | 1 | | 10/11/2024 |
| Chloride | mg/Kg | +/-15 | 77.0 | | 78.4 | | 1 | 2 | | 10/11/2024 |
| Fluoride | mg/Kg | +/-15 | 48.6 | | 49.4 | | 1 | 2 | | 10/11/2024 |

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# Duplicate Sample Summary

**Client:** Roman E&G Corp
**Project:** Perth Amboy
**Client ID:** Chamberlain AveDUP

**SDG No.:** P4258
**Sample ID:** P4258-04
**Percent Solids for Spike Sample:** 100

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Corrosivity | pH | +/-20 | 7.64 | | 7.65 | | 1 | 0.13 | | 10/01/2024 |
| Ignitability | oC | +/-20 | NO | | NO | | 1 | 0 | | 10/02/2024 |

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# Duplicate Sample Summary

**Client:** Roman E&G Corp
**Project:** Perth Amboy
**Client ID:** HD-01-100924DUP

**SDG No.:** P4258
**Sample ID:** P4377-01
**Percent Solids for Spike Sample:** 90.6

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | mg/Kg | +/-20 | 0.086 | U | 0.087 | U | 1 | 0 | | 10/11/2024 |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **Run No.:** | LB132735 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** **LB132735BS** | | | | | | | | |
| **COD** | **mg/Kg** | **2500** | **2510** | | **100** | **1** | **90-110** | **10/03/2024** |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **Run No.:** | LB132745 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** LB132745BS | | | | | | | | |
| Oil and Grease | mg/Kg | 100 | 89.9 | J | 90 | 1 | 78-114 | 10/03/2024 |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **Run No.:** | LB132756 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID LB132756BS** | | | | | | | | |
| **ASTM Oil and Grease** | **mg/L** | **20.0** | **16.8** | | **84** | **1** | **78-114** | **10/04/2024** |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **Run No.:** | LB132776 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** LB132776BS | | | | | | | | |
| ASTM COD | mg/L | 50 | 50.2 | | 100 | 1 | 90-110 | 10/04/2024 |

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# Laboratory Control Sample Summary

**Client:** Roman E&G Corp **SDG No.:** P4258

**Project:** Perth Amboy **Run No.:** LB132885

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** LB132885BSS | | | | | | | | |
| Bromide | mg/Kg | 200 | 209 | | 104 | 1 | 90-110 | 10/11/2024 |
| Chloride | mg/Kg | 60 | 62.4 | | 104 | 1 | 90-110 | 10/11/2024 |
| Fluoride | mg/Kg | 40 | 41.9 | | 105 | 1 | 90-110 | 10/11/2024 |
| Nitrite | mg/Kg | 60 | 62.4 | | 104 | 1 | 90-110 | 10/11/2024 |
| Nitrate | mg/Kg | 50 | 51.8 | | 104 | 1 | 90-110 | 10/11/2024 |
| Sulfate | mg/Kg | 300 | 306 | | 102 | 1 | 90-110 | 10/11/2024 |
| Orthophosphate as P | mg/Kg | 100 | 106 | | 106 | 1 | 90-110 | 10/11/2024 |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **Run No.:** | LB132726 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID PB163850BS** | | | | | | | | |
| Ammonia as N | mg/Kg | 50 | 49.6 | | 99 | 1 | 90-110 | 10/03/2024 |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **Run No.:** | LB132768 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID PB163895BS** | | | | | | | | |
| **ASTM Ammonia** | **mg/L** | **1** | **0.98** | | **98** | **1** | **90-110** | **10/04/2024** |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Roman E&G Corp | **SDG No.:** | P4258 |
| **Project:** | Perth Amboy | **Run No.:** | LB132887 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID PB164052BS** | | | | | | | | |
| **Hexavalent Chromium** | **mg/Kg** | **20** | **20.0** | | **100** | **1** | **84-110** | **10/11/2024** |

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**Instrument ID:** WC PH METER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132689

| | | | |
|---|---|---|---|
| Review By | jignesh | Review On | 10/15/2024 11:29:21 AM |
| Supervise By | Iwona | Supervise On | 10/15/2024 11:30:35 AM |
| SubDirectory | LB132689 | 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 | 10/01/24 15:25 | | Jignesh | OK |
| 2 | CAL2 | CAL2 | CAL | 10/01/24 15:26 | | Jignesh | OK |
| 3 | CAL3 | CAL3 | CAL | 10/01/24 15:30 | | Jignesh | OK |
| 4 | ICV | ICV | ICV | 10/01/24 15:37 | | Jignesh | OK |
| 5 | CCV1 | CCV1 | CCV | 10/01/24 15:40 | | Jignesh | OK |
| 6 | P4232-04 | TP-R | SAM | 10/01/24 16:15 | | Jignesh | OK |
| 7 | P4236-04 | TP4 | SAM | 10/01/24 16:19 | | Jignesh | OK |
| 8 | P4236-08 | TP3 | SAM | 10/01/24 16:22 | | Jignesh | OK |
| 9 | P4236-12 | TP1 | SAM | 10/01/24 16:25 | | Jignesh | OK |
| 10 | P4236-16 | TP2 | SAM | 10/01/24 16:30 | | Jignesh | OK |
| 11 | P4242-04 | TP-Q | SAM | 10/01/24 16:35 | | Jignesh | OK |
| 12 | P4254-04 | MH-147-SLUDGE | SAM | 10/01/24 16:40 | | Jignesh | OK |
| 13 | P4258-04 | Chamberlain Ave | SAM | 10/01/24 16:45 | | Jignesh | OK |
| 14 | P4258-04DUP | Chamberlain AveDUP | DUP | 10/01/24 16:46 | | Jignesh | OK |
| 15 | CCV2 | CCV2 | CCV | 10/01/24 16:47 | | Jignesh | OK |

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**Instrument ID:** WC PH METER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132690

| | | | |
|---|---|---|---|
| Review By | jignesh | Review On | 10/1/2024 4:29:02 PM |
| Supervise By | Iwona | Supervise On | 10/1/2024 4:49:58 PM |
| SubDirectory | LB132690 | Test | pH |

| 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 | 10/01/24 16:15 | | Jignesh | OK |
| 2 | CAL2 | CAL2 | CAL | 10/01/24 16:20 | | Jignesh | OK |
| 3 | CAL3 | CAL3 | CAL | 10/01/24 16:25 | | Jignesh | OK |
| 4 | ICV | ICV | ICV | 10/01/24 16:30 | | Jignesh | OK |
| 5 | CCV1 | CCV1 | CCV | 10/01/24 16:33 | | Jignesh | OK |
| 6 | P4258-03 | Chamberlain Ave | SAM | 10/01/24 16:37 | | Jignesh | OK |
| 7 | P4258-03DUP | Chamberlain AveDUP | DUP | 10/01/24 16:38 | | Jignesh | OK |
| 8 | CCV2 | CCV2 | CCV | 10/01/24 16:40 | | Jignesh | OK |

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**Instrument ID:** WC SC-3

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132705

| | | | |
|---|---|---|---|
| Review By | jignesh | Review On | 10/3/2024 10:22:25 AM |
| Supervise By | Iwona | Supervise On | 10/3/2024 11:34:49 AM |
| SubDirectory | LB132705 | Test | TS |

| 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 | LB132705BL | LB132705BL | MB | 10/02/24 11:00 | | jignesh | OK |
| 2 | P4258-01 | Chamberlain Ave | SAM | 10/02/24 11:00 | | jignesh | OK |
| 3 | P4258-01DUP | Chamberlain AveDUP | DUP | 10/02/24 11:00 | | jignesh | OK |

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**Instrument ID:** WC SC-3

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132707

| | | | |
|---|---|---|---|
| Review By | jignesh | Review On | 10/3/2024 10:44:26 AM |
| Supervise By | Iwona | Supervise On | 10/3/2024 11:34:36 AM |
| SubDirectory | LB132707 | Test | TVS |

| 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 | LB132707BL | LB132707BL | MB | 10/02/24 15:40 | | jignesh | OK |
| 2 | P4258-01 | Chamberlain Ave | SAM | 10/02/24 15:40 | | jignesh | OK |
| 3 | P4258-01DUP | Chamberlain AveDUP | DUP | 10/02/24 15:40 | | jignesh | OK |

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**Instrument ID:** TITRAMETRIC

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132708

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/2/2024 1:09:52 PM |
| Supervise By | Iwona | Supervise On | 10/2/2024 1:10:18 PM |
| SubDirectory | LB132708 | 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,W2977 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | PB163759BL | PB163759BL | MB | 10/02/24 12:25 | | rubina | OK |
| 2 | P4214-02 | CONCRETE-WC-1 | SAM | 10/02/24 12:28 | | rubina | OK |
| 3 | P4214-02DUP | CONCRETE-WC-1DU | DUP | 10/02/24 12:30 | | rubina | OK |
| 4 | P4222-04 | TP-5 | SAM | 10/02/24 12:33 | | rubina | OK |
| 5 | P4232-04 | TP-R | SAM | 10/02/24 12:36 | | rubina | OK |
| 6 | P4236-04 | TP4 | SAM | 10/02/24 12:38 | | rubina | OK |
| 7 | P4236-08 | TP3 | SAM | 10/02/24 12:40 | | rubina | OK |
| 8 | P4236-12 | TP1 | SAM | 10/02/24 12:43 | | rubina | OK |
| 9 | P4236-16 | TP2 | SAM | 10/02/24 12:45 | | rubina | OK |
| 10 | P4242-04 | TP-Q | SAM | 10/02/24 12:48 | | rubina | OK |
| 11 | P4254-04 | MH-147-SLUDGE | SAM | 10/02/24 12:50 | | rubina | OK |
| 12 | P4258-04 | Chamberlain Ave | SAM | 10/02/24 12:53 | | rubina | OK |

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**Instrument ID:** FILTER/GRAVIMETRIC

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132715

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/3/2024 9:51:48 AM |
| Supervise By | Iwona | Supervise On | 10/3/2024 9:53:23 AM |
| SubDirectory | LB132715 | Test | Paint Filter |

| 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 | P4242-01 | TP-Q | SAM | 10/02/24 13:30 | | rubina | OK |
| 2 | P4254-01 | MH-147-SLUDGE | SAM | 10/02/24 13:38 | | rubina | OK |
| 3 | P4255-01 | OR-03-100124 | SAM | 10/02/24 13:45 | | rubina | OK |
| 4 | P4257-01 | VNJ-240 | SAM | 10/02/24 13:52 | | rubina | OK |
| 5 | P4258-01 | Chamberlain Ave | SAM | 10/02/24 14:00 | | rubina | OK |
| 6 | P4258-01DUP | Chamberlain AveDUP | DUP | 10/02/24 14:08 | | rubina | OK |

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**Instrument ID:** FLAME

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132718

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/3/2024 9:51:14 AM |
| Supervise By | Iwona | Supervise On | 10/3/2024 9:52:25 AM |
| SubDirectory | LB132718 | 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 | P4242-01 | TP-Q | SAM | 10/02/24 14:40 | | rubina | OK |
| 2 | P4242-04 | TP-Q | SAM | 10/02/24 14:48 | | rubina | OK |
| 3 | P4254-01 | MH-147-SLUDGE | SAM | 10/02/24 14:55 | | rubina | OK |
| 4 | P4254-04 | MH-147-SLUDGE | SAM | 10/02/24 15:02 | | rubina | OK |
| 5 | P4256-01 | 585 | SAM | 10/02/24 15:10 | | rubina | OK |
| 6 | P4256-02 | 31480 | SAM | 10/02/24 15:17 | | rubina | OK |
| 7 | P4258-04 | Chamberlain Ave | SAM | 10/02/24 15:25 | | rubina | OK |
| 8 | P4258-04DUP | Chamberlain AveDUP | DUP | 10/02/24 15:32 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132726

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/4/2024 10:58:55 AM |
| Supervise By | Iwona | Supervise On | 10/4/2024 1:25:36 PM |
| SubDirectory | LB132726 | Test | Ammonia |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP110022 |
| ICV Standard | WP110024 |
| CCV Standard | WP110023 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP109834 |
| Chk Standard | WP108309,WP110019,WP108709,WP108840 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 0.0PPM | 0.0PPM | CAL1 | 10/03/24 09:00 | | rubina | OK |
| 2 | 0.1PPM | 0.1PPM | CAL2 | 10/03/24 09:00 | | rubina | OK |
| 3 | 0.2PPM | 0.2PPM | CAL3 | 10/03/24 09:00 | | rubina | OK |
| 4 | 0.4PPM | 0.4PPM | CAL4 | 10/03/24 09:00 | | rubina | OK |
| 5 | 1.0PPM | 1.0PPM | CAL5 | 10/03/24 09:00 | | rubina | OK |
| 6 | 1.3PPM | 1.3PPM | CAL6 | 10/03/24 09:00 | | rubina | OK |
| 7 | 2.0PPM | 2.0PPM | CAL7 | 10/03/24 09:00 | | rubina | OK |
| 8 | ICV1 | ICV1 | ICV | 10/03/24 09:42 | | rubina | OK |
| 9 | ICB1 | ICB1 | ICB | 10/03/24 09:42 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 10/03/24 09:42 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 10/03/24 09:53 | | rubina | OK |
| 12 | RL | RL | SAM | 10/03/24 09:53 | | rubina | OK |
| 13 | PB163814BL | PB163814BL | MB | 10/03/24 09:53 | | rubina | OK |
| 14 | PB163814BS | PB163814BS | LCS | 10/03/24 10:03 | | rubina | OK |
| 15 | P4235-02 | A1403 | SAM | 10/03/24 10:03 | | rubina | OK |
| 16 | P4235-02DUP | A1403DUP | DUP | 10/03/24 10:04 | | rubina | OK |
| 17 | P4235-02MS | A1403MS | MS | 10/03/24 10:04 | | rubina | OK |
| 18 | P4235-02MSD | A1403MSD | MSD | 10/03/24 10:04 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132726

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/4/2024 10:58:55 AM |
| Supervise By | Iwona | Supervise On | 10/4/2024 1:25:36 PM |
| SubDirectory | LB132726 | Test | Ammonia |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP110022 |
| ICV Standard | WP110024 |
| CCV Standard | WP110023 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP109834 |
| Chk Standard | WP108309,WP110019,WP108709,WP108840 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4253-01 | 1 Effluent Composite | SAM | 10/03/24 10:04 | | rubina | OK |
| 20 | P4254-05 | MH-147 | SAM | 10/03/24 10:04 | High | rubina | Dilution |
| 21 | RL | RL | SAM | 10/03/24 10:04 | | rubina | OK |
| 22 | CCV2 | CCV2 | CCV | 10/03/24 10:04 | | rubina | OK |
| 23 | CCB2 | CCB2 | CCB | 10/03/24 10:14 | | rubina | OK |
| 24 | PB163850BL | PB163850BL | MB | 10/03/24 10:14 | | rubina | OK |
| 25 | PB163850BS | PB163850BS | LCS | 10/03/24 10:14 | | rubina | OK |
| 26 | P4258-01 | Chamberlain Ave | SAM | 10/03/24 10:14 | | rubina | OK |
| 27 | P4258-01DUP | Chamberlain AveDUP | DUP | 10/03/24 10:14 | | rubina | OK |
| 28 | P4258-01MS | Chamberlain AveMS | MS | 10/03/24 10:14 | | rubina | OK |
| 29 | P4258-01MSD | Chamberlain AveMSD | MSD | 10/03/24 10:14 | | rubina | OK |
| 30 | CCV3 | CCV3 | CCV | 10/03/24 10:14 | | rubina | OK |
| 31 | CCB3 | CCB3 | CCB | 10/03/24 10:23 | | rubina | OK |
| 32 | P4254-05DL | MH-147DL | SAM | 10/03/24 10:23 | Report 2X | rubina | Confirms |
| 33 | CCV4 | CCV4 | CCV | 10/03/24 10:23 | | rubina | OK |
| 34 | CCB4 | CCB4 | CCB | 10/03/24 10:23 | | rubina | OK |

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**Instrument ID:** WC SC-3

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132729

| | | | |
|---|---|---|---|
| Review By | jignesh | Review On | 10/4/2024 9:12:33 AM |
| Supervise By | Iwona | Supervise On | 10/4/2024 9:35:47 AM |
| SubDirectory | LB132729 | Test | ASTM TS |

| 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 | LB132729BL | LB132729BL | MB | 10/03/24 11:00 | | jignesh | OK |
| 2 | P4258-02 | Chamberlain Ave | SAM | 10/03/24 11:00 | | jignesh | OK |
| 3 | P4258-02DUP | Chamberlain AveDUP | DUP | 10/03/24 11:00 | | jignesh | OK |

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**Instrument ID:** SPECTROPHOTOMETER-2

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132735

| | | | |
|---|---|---|---|
| Review By | Niha | Review On | 10/3/2024 2:17:00 PM |
| Supervise By | Iwona | Supervise On | 10/3/2024 2:18:26 PM |
| SubDirectory | LB132735 | Test | COD |

| 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 | WP108671,WP108668,WP108666,WP108669,WP108667,WP108665,WP109973,WP109972,W3123 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | CAL1 | CAL1 | CAL | 07/09/24 14:20 | | Iwona | OK |
| 2 | CAL2 | CAL2 | CAL | 07/09/24 14:20 | | Iwona | OK |
| 3 | CAL3 | CAL3 | CAL | 07/09/24 14:21 | | Iwona | OK |
| 4 | CAL4 | CAL4 | CAL | 07/09/24 14:21 | | Iwona | OK |
| 5 | CAL5 | CAL5 | CAL | 07/09/24 14:22 | | Iwona | OK |
| 6 | ICV | ICV | ICV | 07/09/24 14:22 | | Iwona | OK |
| 7 | ICB | ICB | ICB | 07/09/24 14:23 | | Iwona | OK |
| 8 | CCV1 | CCV1 | CCV | 10/03/24 11:40 | | Iwona | OK |
| 9 | CCB1 | CCB1 | CCB | 10/03/24 11:40 | | Iwona | OK |
| 10 | LB132735BL | LB132735BL | MB | 10/03/24 11:41 | | Iwona | OK |
| 11 | LB132735BS | LB132735BS | LCS | 10/03/24 11:41 | | Iwona | OK |
| 12 | P4258-01 | Chamberlain Ave | SAM | 10/03/24 11:42 | | Iwona | OK |
| 13 | P4258-01DUP | Chamberlain AveDUP | DUP | 10/03/24 11:42 | | Iwona | OK |
| 14 | P4258-01MS | Chamberlain AveMS | MS | 10/03/24 11:43 | 0.5ml WP109972 + 9.5ml Sample | Iwona | OK |
| 15 | P4258-01MSD | Chamberlain AveMSD | MSD | 10/03/24 11:43 | 0.5ml WP109972 + 9.5ml Sample | Iwona | OK |
| 16 | CCV2 | CCV2 | CCV | 10/03/24 11:44 | | Iwona | OK |
| 17 | CCB2 | CCB2 | CCB | 10/03/24 11:44 | | Iwona | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132736

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/4/2024 11:01:33 AM |
| Supervise By | Iwona | Supervise On | 10/4/2024 1:25:51 PM |
| SubDirectory | LB132736 | Test | Reactive Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP110026,WP110027,WP110028,WP110029,WP110030,WP110031,WP110032 |
| ICV Standard | WP110033 |
| CCV Standard | WP110027 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | WP107283,WP109068,WP110034 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 0.0PPBCN | 0.0PPBCN | CAL1 | 10/03/24 12:27 | | rubina | OK |
| 2 | 5.0PPBCN | 5.0PPBCN | CAL2 | 10/03/24 12:27 | | rubina | OK |
| 3 | 10PPBCN | 10PPBCN | CAL3 | 10/03/24 12:27 | | rubina | OK |
| 4 | 50PPBCN | 50PPBCN | CAL4 | 10/03/24 12:27 | | rubina | OK |
| 5 | 100PPBCN | 100PPBCN | CAL5 | 10/03/24 12:27 | | rubina | OK |
| 6 | 250PPBCN | 250PPBCN | CAL6 | 10/03/24 12:27 | | rubina | OK |
| 7 | 500PPBCN | 500PPBCN | CAL7 | 10/03/24 12:27 | | rubina | OK |
| 8 | ICV1 | ICV1 | ICV | 10/03/24 12:59 | | rubina | OK |
| 9 | ICB1 | ICB1 | ICB | 10/03/24 12:59 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 10/03/24 12:59 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 10/03/24 12:59 | | rubina | OK |
| 12 | PB163858BL | PB163858BL | MB | 10/03/24 12:59 | | rubina | OK |
| 13 | P4222-04 | TP-5 | SAM | 10/03/24 13:07 | | rubina | OK |
| 14 | P4222-04DUP | TP-5DUP | DUP | 10/03/24 13:07 | | rubina | OK |
| 15 | P4232-04 | TP-R | SAM | 10/03/24 13:07 | | rubina | OK |
| 16 | P4236-04 | TP4 | SAM | 10/03/24 13:07 | | rubina | OK |
| 17 | P4236-08 | TP3 | SAM | 10/03/24 13:07 | | rubina | OK |
| 18 | P4236-12 | TP1 | SAM | 10/03/24 13:14 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132736

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/4/2024 11:01:33 AM |
| Supervise By | Iwona | Supervise On | 10/4/2024 1:25:51 PM |
| SubDirectory | LB132736 | Test | Reactive Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP110026,WP110027,WP110028,WP110029,WP110030,WP110031,WP110032 |
| ICV Standard | WP110033 |
| CCV Standard | WP110027 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | WP107283,WP109068,WP110034 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4236-16 | TP2 | SAM | 10/03/24 13:14 | | rubina | OK |
| 20 | P4242-04 | TP-Q | SAM | 10/03/24 13:14 | | rubina | OK |
| 21 | P4254-04 | MH-147-SLUDGE | SAM | 10/03/24 13:14 | | rubina | OK |
| 22 | CCV2 | CCV2 | CCV | 10/03/24 13:22 | | rubina | OK |
| 23 | CCB2 | CCB2 | CCB | 10/03/24 13:22 | | rubina | OK |
| 24 | P4258-04 | Chamberlain Ave | SAM | 10/03/24 13:22 | | rubina | OK |
| 25 | P4270-04 | IB-2 | SAM | 10/03/24 13:22 | | rubina | OK |
| 26 | P4276-02 | VNJ-208 | SAM | 10/03/24 13:22 | | rubina | OK |
| 27 | PB163857BL | PB163857BL | MB | 10/03/24 13:22 | | rubina | OK |
| 28 | P4254-05 | MH-147 | SAM | 10/03/24 13:22 | | rubina | OK |
| 29 | P4274-01 | 222254 | SAM | 10/03/24 13:28 | | rubina | OK |
| 30 | P4235-02 | A1403 | SAM | 10/03/24 13:28 | | rubina | OK |
| 31 | P4235-02DUP | A1403DUP | DUP | 10/03/24 13:28 | | rubina | OK |
| 32 | CCV3 | CCV3 | CCV | 10/03/24 13:28 | | rubina | OK |
| 33 | CCB3 | CCB3 | CCB | 10/03/24 13:28 | | rubina | OK |

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**Instrument ID:** WC SC-3

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132745

| | | | |
|---|---|---|---|
| Review By | jignesh | Review On | 10/3/2024 4:29:40 PM |
| Supervise By | Iwona | Supervise On | 10/3/2024 5:02:02 PM |
| SubDirectory | LB132745 | Test | Oil and Grease |

| 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 | W3110,NA,EP2541,WP108566,NA,E2865,WP108569,NA,WP108570 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | LB132745BL | LB132745BL | MB | 10/03/24 14:30 | | jignesh | OK |
| 2 | LB132745BS | LB132745BS | LCS | 10/03/24 14:30 | | jignesh | OK |
| 3 | P4258-01 | Chamberlain Ave | SAM | 10/03/24 14:30 | | jignesh | OK |
| 4 | P4258-01DUP | Chamberlain AveDUP | DUP | 10/03/24 14:30 | | jignesh | OK |
| 5 | P4258-01MS | Chamberlain AveMS | MS | 10/03/24 14:30 | | jignesh | OK |
| 6 | P4258-01MSD | Chamberlain AveMSD | MSD | 10/03/24 14:30 | | jignesh | OK |

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**Instrument ID:** WC SC-3

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132756

| | | | |
|---|---|---|---|
| Review By | jignesh | Review On | 10/4/2024 9:22:42 AM |
| Supervise By | Iwona | Supervise On | 10/4/2024 9:35:16 AM |
| SubDirectory | LB132756 | Test | ASTM Oil and Grease |

| 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 | W3110,M6069,EP2541,WP108566,NA,NA,WP108567,NA,WP108568 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | LB132756BL | LB132756BL | MB | 10/04/24 10:00 | | jignesh | OK |
| 2 | LB132756BS | LB132756BS | LCS | 10/04/24 10:00 | | jignesh | OK |
| 3 | P4258-02 | Chamberlain Ave | SAM | 10/04/24 10:00 | | jignesh | OK |
| 4 | P4258-02DUP | Chamberlain AveDUP | DUP | 10/04/24 10:00 | | jignesh | OK |
| 5 | P4258-02MS | Chamberlain AveMS | MS | 10/04/24 10:00 | | jignesh | OK |
| 6 | P4258-02MSD | Chamberlain AveMSD | MSD | 10/04/24 10:00 | | jignesh | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132768

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/7/2024 12:26:12 PM |
| Supervise By | Iwona | Supervise On | 10/7/2024 1:03:33 PM |
| SubDirectory | LB132768 | Test | ASTM Ammonia |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP110057 |
| ICV Standard | WP110059 |
| CCV Standard | WP110058 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP109834 |
| Chk Standard | WP108309,WP110019,WP108709,WP108840 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 0.0PPM | 0.0PPM | CAL1 | 10/04/24 11:05 | | rubina | OK |
| 2 | 0.1PPM | 0.1PPM | CAL2 | 10/04/24 11:05 | | rubina | OK |
| 3 | 0.2PPM | 0.2PPM | CAL3 | 10/04/24 11:05 | | rubina | OK |
| 4 | 0.4PPM | 0.4PPM | CAL4 | 10/04/24 11:05 | | rubina | OK |
| 5 | 1.0PPM | 1.0PPM | CAL5 | 10/04/24 11:05 | | rubina | OK |
| 6 | 1.3PPM | 1.3PPM | CAL6 | 10/04/24 11:05 | | rubina | OK |
| 7 | 2.0PPM | 2.0PPM | CAL7 | 10/04/24 11:05 | | rubina | OK |
| 8 | ICV1 | ICV1 | ICV | 10/04/24 11:55 | | rubina | OK |
| 9 | ICB1 | ICB1 | ICB | 10/04/24 11:55 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 10/04/24 11:55 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 10/04/24 11:55 | | rubina | OK |
| 12 | RL | RL | SAM | 10/04/24 11:55 | | rubina | OK |
| 13 | PB163895BL | PB163895BL | MB | 10/04/24 11:55 | | rubina | OK |
| 14 | PB163895BS | PB163895BS | LCS | 10/04/24 12:06 | | rubina | OK |
| 15 | P4258-02 | Chamberlain Ave | SAM | 10/04/24 12:06 | | rubina | OK |
| 16 | P4258-02DUP | Chamberlain AveDUP | DUP | 10/04/24 12:06 | | rubina | OK |
| 17 | P4258-02MS | Chamberlain AveMS | MS | 10/04/24 12:06 | | rubina | OK |
| 18 | P4258-02MSD | Chamberlain AveMSD | MSD | 10/04/24 12:06 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132768

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/7/2024 12:26:12 PM |
| Supervise By | lwona | Supervise On | 10/7/2024 1:03:33 PM |
| SubDirectory | LB132768 | Test | ASTM Ammonia |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP110057 |
| ICV Standard | WP110059 |
| CCV Standard | WP110058 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP109834 |
| Chk Standard | WP108309,WP110019,WP108709,WP108840 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | CCV2 | CCV2 | CCV | 10/04/24 12:06 | | rubina | OK |
| 20 | CCB2 | CCB2 | CCB | 10/04/24 12:11 | | rubina | OK |

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**Instrument ID:** SPECTROPHOTOMETER-2

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132776

| | | | |
|---|---|---|---|
| Review By | Iwona | Review On | 10/15/2024 11:24:50 AM |
| Supervise By | jignesh | Supervise On | 10/15/2024 11:26:43 AM |
| SubDirectory | LB132776 | Test | ASTM COD |

| 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 | WP108671,WP108668,WP108666,WP108669,WP108667,WP108665,WP109973,WP109972,W3123 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | CAL1 | CAL1 | CAL | 07/09/24 14:20 | | Iwona | OK |
| 2 | CAL2 | CAL2 | CAL | 07/09/24 14:20 | | Iwona | OK |
| 3 | CAL3 | CAL3 | CAL | 07/09/24 14:21 | | Iwona | OK |
| 4 | CAL4 | CAL4 | CAL | 07/09/24 14:21 | | Iwona | OK |
| 5 | CAL5 | CAL5 | CAL | 07/09/24 14:22 | | Iwona | OK |
| 6 | ICV | ICV | ICV | 07/09/24 14:22 | | Iwona | OK |
| 7 | ICB | ICB | ICB | 07/09/24 14:23 | | Iwona | OK |
| 8 | CCV1 | CCV1 | CCV | 10/04/24 14:30 | | Iwona | OK |
| 9 | CCB1 | CCB1 | CCB | 10/04/24 14:30 | | Iwona | OK |
| 10 | LB132776BL | LB132776BL | MB | 10/04/24 14:31 | | Iwona | OK |
| 11 | LB132776BS | LB132776BS | LCS | 10/04/24 14:31 | | Iwona | OK |
| 12 | P4258-02 | Chamberlain Ave | SAM | 10/04/24 14:32 | | Iwona | OK |
| 13 | P4258-02DUP | Chamberlain AveDUP | DUP | 10/04/24 14:32 | | Iwona | OK |
| 14 | P4258-02MS | Chamberlain AveMS | MS | 10/04/24 14:33 | | Iwona | OK |
| 15 | P4258-02MSD | Chamberlain AveMSD | MSD | 10/04/24 14:33 | | Iwona | OK |
| 16 | CCV2 | CCV2 | CCV | 10/04/24 14:34 | | Iwona | OK |
| 17 | CCB2 | CCB2 | CCB | 10/04/24 14:34 | | Iwona | OK |

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**Instrument ID:** IC-2

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132885

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/15/2024 11:23:05 AM |
| Supervise By | Iwona | Supervise On | 10/15/2024 11:23:21 AM |
| SubDirectory | LB132885 | Test | Anions |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP109717,WP109718,WP109719,WP109720,WP109721,WP109722,WP109723 |
| ICV Standard | WP109724 |
| CCV Standard | WP110165 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP110166 |
| Chk Standard | WP109725,WP109726,WP110167,WP110168,WP110169 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | STD1 | STD1 | CAL1 | 09/16/24 11:39 | All standards, samples, and | NF/IZ | OK |
| 2 | STD2 | STD2 | CAL2 | 09/16/24 12:00 | QC are filtered through | NF/IZ | OK |
| 3 | STD3 | STD3 | CAL3 | 09/16/24 12:22 | 0.45um, filter lot W2865 | NF/IZ | OK |
| 4 | STD4 | STD4 | CAL4 | 09/16/24 12:43 | | NF/IZ | OK |
| 5 | STD5 | STD5 | CAL5 | 09/16/24 13:05 | | NF/IZ | OK |
| 6 | STD6 | STD6 | CAL6 | 09/16/24 13:26 | | NF/IZ | OK |
| 7 | STD7 | STD7 | CAL7 | 09/16/24 13:47 | | NF/IZ | OK |
| 8 | ICV1 | ICV1 | ICV | 09/16/24 15:00 | | NF/IZ | OK |
| 9 | ICB1 | ICB1 | ICB | 09/16/24 15:21 | | NF/IZ | OK |
| 10 | CCV1 | CCV1 | CCV | 10/11/24 10:28 | | NF/IZ | OK |
| 11 | CCB1 | CCB1 | CCB | 10/11/24 10:50 | | NF/IZ | OK |
| 12 | LB132885BLS | LB132885BLS | MB | 10/11/24 11:11 | | NF/IZ | OK |
| 13 | LB132885BSS | LB132885BSS | LCS | 10/11/24 11:33 | | NF/IZ | OK |
| 14 | P4258-03 | Chamberlain Ave | SAM | 10/11/24 11:55 | | NF/IZ | OK |
| 15 | P4258-03MS | Chamberlain AveMS | MS | 10/11/24 12:16 | 5ml W3091 | NF/IZ | OK |
| 16 | P4258-03MSD | Chamberlain AveMSD | MSD | 10/11/24 12:38 | 5ml W3091 | NF/IZ | OK |
| 17 | P4368-02 | LOQ-SOIL-02-QT4-20 | LOQ | 10/11/24 12:59 | | NF/IZ | OK |
| 18 | P4368-01 | LOD-MDL-SOIL-01-Q | SAM | 10/11/24 13:21 | | NF/IZ | OK |

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**Instrument ID:** IC-2

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132885

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/15/2024 11:23:05 AM |
| Supervise By | Iwona | Supervise On | 10/15/2024 11:23:21 AM |
| SubDirectory | LB132885 | Test | Anions |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP109717,WP109718,WP109719,WP109720,WP109721,WP109722,WP109723 |
| ICV Standard | WP109724 |
| CCV Standard | WP110165 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP110166 |
| Chk Standard | WP109725,WP109726,WP110167,WP110168,WP110169 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4368-01RE | LOD-MDL-SOIL-01-Q | SAM | 10/11/24 13:42 | | NF/IZ | OK |
| 20 | CCV2 | CCV2 | CCV | 10/11/24 14:04 | | NF/IZ | OK |
| 21 | CCB2 | CCB2 | CCB | 10/11/24 14:25 | | NF/IZ | OK |

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**Instrument ID:** SPECTROPHOTOMETER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132887

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/11/2024 12:50:38 PM |
| Supervise By | Iwona | Supervise On | 10/11/2024 2:07:39 PM |
| SubDirectory | LB132887 | 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 | WP110108,WP107791,WP107796,WP108645 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | CAL1 | CAL1 | CAL | 10/11/24 11:45 | | rubina | OK |
| 2 | CAL2 | CAL2 | CAL | 10/11/24 11:46 | | rubina | OK |
| 3 | CAL3 | CAL3 | CAL | 10/11/24 11:47 | | rubina | OK |
| 4 | CAL4 | CAL4 | CAL | 10/11/24 11:48 | | rubina | OK |
| 5 | CAL5 | CAL5 | CAL | 10/11/24 11:49 | | rubina | OK |
| 6 | CAL6 | CAL6 | CAL | 10/11/24 11:50 | | rubina | OK |
| 7 | CAL7 | CAL7 | CAL | 10/11/24 11:51 | | rubina | OK |
| 8 | ICV | ICV | ICV | 10/11/24 11:52 | | rubina | OK |
| 9 | ICB | ICB | ICB | 10/11/24 11:53 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 10/11/24 11:54 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 10/11/24 11:55 | | rubina | OK |
| 12 | RL Check | RL Check | SAM | 10/11/24 11:56 | | rubina | OK |
| 13 | PB164052BL | PB164052BL | MB | 10/11/24 11:57 | | rubina | OK |
| 14 | PB164052BS | PB164052BS | LCS | 10/11/24 11:58 | | rubina | OK |
| 15 | P4258-03 | Chamberlain Ave | SAM | 10/11/24 11:59 | | rubina | OK |
| 16 | P4368-01 | LOD-MDL-SOIL-01-Q | SAM | 10/11/24 12:00 | | rubina | OK |
| 17 | P4368-02 | LOQ-SOIL-02-QT4-20 | SAM | 10/11/24 12:01 | | rubina | OK |
| 18 | P4377-01 | HD-01-100924 | SAM | 10/11/24 12:02 | | rubina | OK |

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**Instrument ID:** SPECTROPHOTOMETER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132887

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 10/11/2024 12:50:38 PM |
| Supervise By | Iwona | Supervise On | 10/11/2024 2:07:39 PM |
| SubDirectory | LB132887 | 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 | WP110108,WP107791,WP107796,WP108645 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4377-01DUP | HD-01-100924DUP | DUP | 10/11/24 12:03 | | rubina | OK |
| 20 | P4377-01MSPre | HD-01-100924MS | MS | 10/11/24 12:04 | | rubina | OK |
| 21 | P4377-01MS2Ins | HD-01-100924MS | MS | 10/11/24 12:05 | | rubina | OK |
| 22 | P4377-01MS3Post | HD-01-100924MS | MS | 10/11/24 12:06 | | rubina | OK |
| 23 | CCV2 | CCV2 | CCV | 10/11/24 12:07 | | rubina | OK |
| 24 | CCB2 | CCB2 | CCB | 10/11/24 12:08 | | rubina | OK |
| 25 | P4385-02 | SP-1 | SAM | 10/11/24 12:09 | | rubina | OK |
| 26 | P4385-04 | SP-2 | SAM | 10/11/24 12:10 | | rubina | OK |
| 27 | P4385-06 | SP-3 | SAM | 10/11/24 12:11 | | rubina | OK |
| 28 | P4385-08 | SP-4 | SAM | 10/11/24 12:12 | | rubina | OK |
| 29 | P4385-10 | SP-5 | SAM | 10/11/24 12:13 | | rubina | OK |
| 30 | P4385-12 | SP-6 | SAM | 10/11/24 12:14 | | rubina | OK |
| 31 | P4385-14 | SP-7 | SAM | 10/11/24 12:15 | | rubina | OK |
| 32 | P4385-16 | SP-8 | SAM | 10/11/24 12:16 | | rubina | OK |
| 33 | P4385-18 | SP-9 | SAM | 10/11/24 12:17 | | rubina | OK |
| 34 | P4385-20 | SP-10 | SAM | 10/11/24 12:18 | | rubina | OK |
| 35 | CCV3 | CCV3 | CCV | 10/11/24 12:19 | | rubina | OK |
| 36 | CCB3 | CCB3 | CCB | 10/11/24 12:20 | | rubina | OK |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4258 | **OrderDate:** | 10/1/2024 1:21:00 PM |
| **Client:** | Roman E&G Corp | **Project:** | Perth Amboy |
| **Contact:** | Mark Mattheiss | **Location:** | H11,H51,K11,K21 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4258-01** | **Chamberlain Ave** | **SOIL** | | | **10/01/24 11:45** | | | **10/01/24** |
| | | | Ammonia | SM4500-NH3 | | 10/01/24 | 10/03/24 10:14 | |
| | | | COD | SM5220 D | | | 10/03/24 11:42 | |
| | | | Oil and Grease | 1664A | | | 10/03/24 14:30 | |
| | | | Paint Filter | 9095B | | | 10/02/24 14:00 | |
| | | | TS | SM2540 B | | | 10/02/24 11:00 | |
| | | | TVS | 160.4 | | | 10/02/24 15:40 | |
| **P4258-02** | **Chamberlain Ave** | **WATER** | | | **10/01/24 11:45** | | | **10/01/24** |
| | | | ASTM Ammonia | SM4500-NH3 | | 10/03/24 | 10/04/24 12:06 | |
| | | | ASTM COD | SM5220 D | | | 10/04/24 14:32 | |
| | | | ASTM Oil and Grease | 1664A | | | 10/04/24 10:00 | |
| | | | ASTM TS | SM2540 B | | | 10/03/24 11:00 | |
| **P4258-03** | **Chamberlain Ave** | **SOIL** | | | **10/01/24 11:45** | | | **10/01/24** |
| | | | Anions Group1 | 9056A | | | 10/11/24 11:55 | |
| | | | Hexavalent Chromium | 7196A | | 10/11/24 | 10/11/24 11:59 | |

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



## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | pH | 9045D | | | 10/01/24 16:37 |
| **P4258-04** | **Chamberlain Ave** | **SOIL** | | | **10/01/24 11:45** | | **10/01/24** |
| | | | Corrosivity | 9045D | | | 10/01/24 15:45 |
| | | | Ignitability | 1030 | | | 10/02/24 15:25 |
| | | | Reactive Cyanide | 9012B | | 10/03/24 | 10/03/24 13:22 |
| | | | Reactive Sulfide | 9034 | | 10/01/24 | 10/02/24 12:53 |

Alliance TECHNICAL GROUP

# Soil/Sludge Reactive Sulfide Preparation Sheet

PB163759

**SOP ID :** M9030B-Sulfide-12

**SDG No :** N/A

**Start Digest Date:** 10/01/2024 **Time :** 15:35 **Temp :** N/A

**Matrix :** SOIL

**End Digest Date:** 10/01/2024 **Time :** 17:05 **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:** 10/01/2024 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

**PB163759**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| P4214-02 | CONCRETE-WC-1 | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4214-02DUP | CONCRETE-WC-1DUP | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4222-04 | TP-5 | 5.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4232-04 | TP-R | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4236-04 | TP4 | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4236-08 | TP3 | 5.07 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4236-12 | TP1 | 5.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4236-16 | TP2 | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4242-04 | TP-Q | 5.06 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4254-04 | MH-147-SLUDGE | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4258-04 | CHAMBERLAIN AVE | 5.05 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB163759BL | PBS759 | 5.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |

Alliance TECHNICAL GROUP

**Soil/Sludge Ammonia Preparation Sheet**

PB163850

**SOP ID :** MSM4500-NH3 B,G-Ammonia-17

**SDG No :** N/A

**Start Digest Date:** 10/01/2024 **Time :** 14:20 **Temp :** 150 °C

**Matrix :** SOIL

**End Digest Date:** 10/01/2024 **Time :** 15:20 **Temp :** 160 °C

**Pippete ID :** WC

**Balance ID :** WC SC-4

**Hood ID :** HOOD#2 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

**Block ID :** WC-DIST-BLOCK-1 **Filter paper ID :** N/A **Prep Technician Signature:** RM

**Weigh By :** RM **pH Meter ID :** N/A **Supervisor Signature:** JC

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LCSS | 1.0ML | WP109834 |
| MS/MSD SPIKE SOL. | 1.0ML | WP109833 |
| PBS003 | 50.0ML | W3112 |
| RL CHECK | 0.1ML | WP109833 |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| BORATE BUFFER | 2.5ML | WP108708 |
| NAOH 6N | 0.5-2.0ML | WP108660 |
| H2SO4 0.04N | 5.0ML | WP107527 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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:**

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
WP108814

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/01/2024 15:30 | RM (WC) | RM (WC) |
| | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

## Soil/Sludge Ammonia Preparation Sheet

## PB163850

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| P4258-01 | CHAMBERLAIN AVE | 1.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4258-01DUP | CHAMBERLAIN AVEDUP | 1.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4258-01MS | CHAMBERLAIN AVEMS | 1.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4258-01MSD | CHAMBERLAIN AVEMSD | 1.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB163850BL | PBS850 | 1.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB163850BS | LCS850 | 1.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |

Alliance TECHNICAL GROUP

## Soil/Sludge Reactive Cyanide Preparation Sheet

PB163858

**SOP ID :** M9012B-Total, Amenable and Reactive Cyanide-20

**SDG No :** N/A

**Start Digest Date:** 10/03/2024 **Time :** 08:20 **Temp :** N/A

**Matrix :** SOIL

**End Digest Date:** 10/03/2024 **Time :** 09:50 **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:** NF

**Weigh By :** NF **pH Meter ID :** N/A **Supervisor Signature:** [illegible]

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| PBS003 | 50ML | 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 | 50ML | 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 |
|---|---|---|
| 10/03/2024 10:05 | NF (WC) | RM (WC) |
| | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

## Soil/Sludge Reactive Cyanide Preparation Sheet

## PB163858

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| P4222-04 | TP-5 | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4222-04DUP | TP-5DUP | 5.05 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4232-04 | TP-R | 5.07 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4236-04 | TP4 | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4236-08 | TP3 | 5.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4236-12 | TP1 | 5.05 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4236-16 | TP2 | 5.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4242-04 | TP-Q | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4254-04 | MH-147-SLUDGE | 5.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4258-04 | CHAMBERLAIN AVE | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4270-04 | IB-2 | 5.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4276-02 | VNJ-208 | 5.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB163858BL | PBS858 | 5.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |

Alliance TECHNICAL GROUP

# Water ASTM Ammonia Preparation Sheet

PB163895

**SOP ID :** MSM4500-NH3 B,G-Ammonia-17

**SDG No :** N/A

**Matrix :** WATER

**Pippete ID :** WC

**Balance ID :** N/A

**Hood ID :** HOOD#2

**Block ID :** WC-DIST-BLOCK-1

**Weigh By :** N/A

**Start Digest Date:** 10/03/2024 **Time :** 11:50 **Temp :** 150 °C

**End Digest Date:** 10/03/2024 **Time :** 12:50 **Temp :** 160 °C

**Digestion tube ID :** M5595

**Filter paper ID :** N/A

**pH Meter ID :** N/A

**Block Thermometer ID :** WC CYANIDE

**Prep Technician Signature:** RM

**Supervisor Signature:** 12

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LCSW | 1.0ML | WP109834 |
| MS/MSD SPIKE SOL. | 1.0ML | WP109833 |
| PBW | 50.0ML | W3112 |
| RL CHECK | 0.1ML | WP109833 |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| BORATE BUFFER | 2.5ML | WP108708 |
| NAOH 6N | 0.5-2.0ML | WP108660 |
| H2SO4 0.04N | 5.0ML | WP107527 |
| pH strip-Ammonia | N/A | W3133 |
| KI-starch paper | N/A | W2965 |
| N/A | N/A | N/A |
| 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:**

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
WP108814

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/03/2024 13:00 | RM (WC) | RM (WC) |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Water ASTM Ammonia Preparation Sheet

**PB163895**

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| P4258-02 | CHAMBERLAIN AVE | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |
| P4258-02DUP | CHAMBERLAIN AVEDUP | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |
| P4258-02MS | CHAMBERLAIN AVEMS | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |
| P4258-02MSD | CHAMBERLAIN AVEMSD | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |
| PB163895BL | PBW895 | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |
| PB163895BS | LCS895 | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |

Alliance TECHNICAL GROUP

# Soil/Sludge Hexavalent Chromium Preparation Sheet

PB164052

17

**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:** 10/11/2024 **Time :** 08:45 **Temp :** 90 °C

**End Digest Date:** 10/11/2024 **Time :** 09:45 **Temp :** 95 °C

I batch 10/11/2024 10:00 90°C
10/11/2024 11:00 95°C 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:** IR

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| PRE-DIGESTION SPIKE | 2.0ML | WP108658 |
| INSOLUBLE SPIKE | 0.02GM | W2202 |
| POST-DIGESTION SPIKE | 2.0ML | WP108658 |
| LCSS | 1.0ML | WP108659 |
| PBS003 | 50.0ML | W3112 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| MAGNESIUM CHLORIDE | 0.4GM | W3001 |
| PHOSPHATE BUFFER | 0.5ML | WP108008 |
| HEX. DIGESTION SOLN. | 50ML | 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 | WP110145 |
| CAL3 | CAL3 | 0.5ML | WP110145 |
| CAL4 | CAL4 | 1ML | WP110145 |
| 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:**

10/11/2024 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

**PB164052**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| P4258-03 | CHAMBERLAIN AVE | 2.53 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4368-01 | LOD-MDL-SOIL-01-QT4-2024 | 2.50 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4368-02 | LOQ-SOIL-02-QT4-2024 | 2.50 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4377-01 | HD-01-100924 | 2.53 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4377-01DUP | HD-01-100924DUP | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4377-01MSPre | HD-01-100924MSPRE | 2.53 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4377-01MS2Ins | HD-01-100924MS2INS | 2.54 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4377-01MS3Post | HD-01-100924MS3POST | 2.54 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4385-02 | SP-1 | 2.51 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4385-04 | SP-2 | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4385-06 | SP-3 | 2.54 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4385-08 | SP-4 | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4385-10 | SP-5 | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4385-12 | SP-6 | 2.54 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4385-14 | SP-7 | 2.51 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4385-16 | SP-8 | 2.51 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4385-18 | SP-9 | 2.53 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4385-20 | SP-10 | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB164052BL | PBS052 | 2.50 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB164052BS | LCS052 | 2.50 | 100 | 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. P4258 / P4261
QUOTE NO.
COC Number 2041986

18
18.1

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Roman E&G
ADDRESS: 14 Ogden St
CITY Newark STATE: NJ ZIP: 07104
ATTENTION: Sonny Puzzo
PHONE: 973-482-1123 FAX: 973-482-7154

### CLIENT PROJECT INFORMATION

PROJECT NAME: Perth Amboy Watermain
PROJECT NO.: 24-651 LOCATION: Perth Amboy
PROJECT MANAGER: Mark Matthiess
e-mail: engineer@romaneg.com
PHONE: 973-482-1123 FAX: 973-482-7154

### CLIENT BILLING INFORMATION

BILL TO: Roman E&G PO#: 24-651
ADDRESS: 14 Ogden St
CITY Newark STATE: NJ ZIP 07104
ATTENTION: Frank PHONE: 973-482-1123

### DATA TURNAROUND INFORMATION

FAX (RUSH) 6 10/7 DAYS*
HARDCOPY (DATA PACKAGE): 6 10/7 DAYS*
EDD: 6 10/7 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 NJ-DEP-SRS

### ANALYSIS

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Chamberlain Ave | S | | X | 10/1 | 11:45 | 1 | | | | | | | | | | |
| 2. | | S | | X | 10/1 | 11:45 | 1 | | | | | | | | | | |
| 3. | | S | | X | 10/1 | 11:45 | 1 | | | | | | | | | | |
| 4. | | S | | X | 10/1 | 11:45 | 1 | | | | | | | | | | |
| 5. | | S | | X | 10/1 | 11:45 | 1 | | | | | | | | | | |
| 6. | | S | | X | 10/1 | 11:45 | 1 | | | | | | | | | | |
| 7. | | S | | X | 10/1 | 11:45 | 1 | | | | | | | | | | |
| 8. | | S | | X | 10/1 | 11:45 | 1 | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. Sonny Puzzo | 10/1 12:54 | 1. |
| 2. | | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 22.1 °C
Comments: If Cm # (

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

| Test Group | Analyses | Matrix | Method |
|---|---|---|---|
| METALS-TAL | Mercury | Water | 7470A |
| | TAL ICP Metals | Water | 6010D |
| RCRA CHARACTERIS | Flash Point | Water | 1010B |
| | pH | Water | 9040C |
| | Reactive Cyanide | Water | 9012B |
| | Reactive Sulfide | Water | 9034 |
| TCLP METALS | TCLP Extraction | Water | 1311 |
| | TCLP ICP Metals | Water | 6010D |
| | TCLP Mercury | Water | 7470A |
| GROWS Concrete | Ammonia | Solid | SM4500-NH3 |
| | Chemical Oxygen Demar | Solid | SM5220 D |
| | Oil & Grease | Solid | 1664A |
| | Paint Filter Test | Solid | 9095B |
| | PCBs | Solid | 8082A |
| | Percent Solids | Solid | Chemtech -SOP |
| | pH | Solid | 9045D |
| | Total Solids | Solid | SM2540 B |
| | Total Volatile Solids | Solid | 160.4 |
| GROWS Concrete AS | ASTM Leachate/ Ammon | Solid | SM4500-NH3 |
| | ASTM Leachate/COD | Solid | SM5220 D |
| | ASTM Leachate Extracti | Solid | ASTM |
| | ASTM Leachate/Oil & Gr | Solid | 1664A |
| | ASTM Leachate/Total Sol | Solid | SM2540 B |
| GROWS Concrete-Wa | Corrosivity | Solid | 9045D |
| | Ignitability | Solid | 1030 |
| | Reactive Cyanide | Solid | 9012B |
| | Reactive Sulfide | Solid | 9034 |
| | TCLP Semivolatiles | Solid | 8270E |
| | TCLP Extraction | Solid | 1311 |
| | TCLP Herbicides | Solid | 8151A |
| | TCLP Mercury | Solid | 7470A |
| | TCLP Metals + Cu+Ni+Zr | Solid | 6010D |
| | TCLP Pesticides | Solid | 8081B |
| | TCLP Volatiles | Solid | 8260C |
| | TCLP ZHE Extraction | Solid | 1311 ZHE |
| GROWS Soil | PCBs | Solid | 8082A |
| | Percent Solids | Solid | Chemtech -SOP |
| | pH | Solid | 9045D |
| | TCL Volatiles+10 | Solid | 8260D |
| GROWS Soil-Waste C | Corrosivity | Solid | 9045D |
| | Ignitability | Solid | 1030 |
| | Reactive Cyanide | Solid | 9012B |
| | Reactive Sulfide | Solid | 9034 |
| | TCLP Semivolatiles | Solid | 8270E |
| | TCLP Extraction | Solid | 1311 |
| | TCLP Herbicides | Solid | 8151A |
| | TCLP Mercury | Solid | 7470A |
| | TCLP Metals + Cu+Ni+Zr | Solid | 6010D |
| | TCLP Pesticides | Solid | 8081B |
| | TCLP Volatiles | Solid | 8260D |
| | TCLP ZHE Extraction | Solid | 1311 ZHE |

Grows Concrete

Grows Concrete ASTM

Grows Soil

Grows Soil - Waste Class

seperate

seperate

18
18.2

**From:** Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Sent:** Wednesday, October 2, 2024 11:07 AM
**Subject:** Re: Project: Perth Amboy Query

Good Morning Sonny,

I am reaching out to inform you that samples received for project were out of temperature range of -6.

It's a standard procedure to inform client, for documentation purposes.

Regards,

**Kiran Saleem**
**Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3148
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
**www.alliancetg.com**

---

**From:** Sonny Puzzo <spuzzo@romaneg.com>
**Sent:** Tuesday, October 1, 2024 3:16 PM
**To:** Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Subject:** Re: Project: Perth Amboy Query

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Kiran,

Should be 24-651.

Thank you.

All the Best,

**Sonny Puzzo**
Project Coordinator

14 Ogden Street
Newark, NJ 07104
Office: (973) 482-1123 Ext:21
Fax: (973) 482-7154
Cell: (973) 803-6113

18
18.2

**From:** Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Sent:** Tuesday, October 1, 2024 3:15 PM
**To:** Sonny Puzzo <spuzzo@romaneg.com>
**Subject:** Re: Project: Perth Amboy Query

Also, can you please clarify the PO# under 'Client Billing Information', I can't make out what the first digit is.

Regards,

**Kiran Saleem**
**Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3148
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
**www.alliancetg.com**

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**From:** Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Sent:** Tuesday, October 1, 2024 2:35 PM
**To:** Sonny Puzzo <spuzzo@romaneg.com>
**Subject:** Re: Project: Perth Amboy Query

Thank you Sonny.

Regards,

**Kiran Saleem**
**Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3148
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
**www.alliancetg.com**

---

**From:** Sonny Puzzo <spuzzo@romaneg.com>
**Sent:** Tuesday, October 1, 2024 2:26 PM
**To:** Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Cc:** Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
**Subject:** Re: Project: Perth Amboy Query

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**Secured by Check Point**

Good Afternoon Kiran,

Roman would like the results of the test back by 10/7.

Sorry for the confusion... Thank you!

All the Best,

18
18.2

**Sonny Puzzo**
Project Coordinator

14 Ogden Street
Newark, NJ 07104
Office: (973) 482-1123 Ext:21
Fax: (973) 482-7154
Cell: (973) 803-6113
*Veteran-Owned Business (NJ)*

---

**From:** Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Sent:** Tuesday, October 1, 2024 2:19 PM
**To:** Sonny Puzzo <spuzzo@romaneg.com>
**Cc:** Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
**Subject:** Project: Perth Amboy Query

Hi Sonny,

I am reaching out to regarding the Turn around time (TAT) of the results, the fax required says 6 days and then 10/7 which is confusing.

If results are required on 10/7, then TAT would be 4 days. If results are required in 6 days, then you will have results on 10/9.

Please confirm ASAP. Attached COC for your review.

Thanks.

**NOTE:** Chemtech is now an Alliance Technical Group company. Please add AllianceTG.com to your safe senders list to ensure receipt of important emails.

Regards,

**Kiran Saleem**
**Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3148
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
**www.alliancetg.com**

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 (L-A-B) | L2219 |
| Maine | 2024021 |
| Maryland | 296 |
| New Hampshire | 255423 |
| New Jersey | 20012 |
| New York | 11376 |
| Pennsylvania | 68-00548 |
| Soil Permit | 525-24-234-08441 |
| Texas | T104704488 |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** P4258 ROMA02
**Client Name :** Roman E&G Corp
**Client Contact :** Mark Mattheiss
**Invoice Name :** Roman E&G Corp
**Invoice Contact :** Mark Mattheiss

**Order Date :** 10/1/2024 1:21:00 PM
**Project Name :** Perth Amboy
**Receive DateTime :** 10/1/2024 12:54:00 PM
**Purchase Order :**

**Project Mgr :** Kiran
**Report Type :** ~~Level 2~~ NJ Reduced
**EDD Type :** ~~Excel NJ~~ HAZ/Excel
**Hard Copy Date :**
**Date Signoff :** 10/1/2024 3:13:24 PM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| P4258-03 | Chamberlain Ave | Solid | 10/01/2024 | 11:45 | VOC-TCLVOA-10 | GROWS Soil | 8260D | | 4 Bus. Days |
| P4258-04 | Chamberlain Ave | Solid | 10/01/2024 | 11:45 | TCLP VOA | ROWS Soil-Waste Cla | 8260C | | 4 Bus. Days |

**Relinguished By :**
**Date / Time :** 10-2-24 8:03

**Received By :**
**Date / Time :** 10/02/24 8:03
**Storage Area :** VOA Refridgerator Room