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

DATA PACKAGE

VOLATILE ORGANICS
METALS

PROJECT NAME : AMTRAK SAWTOOTH BRIDGES 2024

PORTAL PARTNERS TRI-VENTURE

c/o Gannett Fleming Inc. Transit and Rail System

207 Senate Avenue

Camp Hill, PA - 17011

Phone No: 610-650-8101

ORDER ID : P4615

ATTENTION : Joseph Krupansky

Laboratory Certification ID # 20012

Table Of Contents for P4615

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC
Client : Portal Partners Tri-Venture
Project Location : NJ
Project Number : 9500000878
Laboratory Sample ID(s) : P4615
Sampling Date(s) : 10/29/2024
List DKQP Methods Used (e.g., 8260,8270, et Cetra) **6010D,8260-Low**

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

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

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Cover Page

Order ID : P4615

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
P4615-01	B-131-1-SB01
P4615-02	B-131-2-SB01
P4615-03	B-131-3-SB01
P4615-04	TB-10292024

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 : _____ Date: 11/9/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4615
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/29/2024.
1 Water sample was received on 10/29/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260D.

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

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

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

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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_____

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4615
Test Name: Metals Group3

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/29/2024.
1 Water sample was received on 10/29/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group3 and VOC-TCLVOA-10. This data package contains results for Metals Group3.

C. Analytical Techniques:
The analysis of Metals Group3 was based on method 6010D and digestion based on method 3050 (soils).

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 (Z-02-WCMS) analysis met criteria for all samples except for Lead due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (Z-02-WCMSD) analysis met criteria for all samples except for Lead 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 the acceptable requirements.

E. Additional Comments:

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

Signature_____

DATA REPORTING QUALIFIERS- INORGANIC

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

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

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4615

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

QA Review Signature: SOHIL JODHANI **Date:** 11/09/2024

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Hit Summary Sheet
SW-846

SDG No.: P4615

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**TB-10292024**							
P4615-04	TB-10292024	Water	Acetone	1.70	J	1.40	5.00	ug/L
			Total Voc :	1.70				
			Total Concentration:	1.70				

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/29/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/29/24
Client Sample ID:	TB-10292024	SDG No.:	P4615
Lab Sample ID:	P4615-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043620.D	1		10/30/24 13:38	VX103024

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/29/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/29/24
Client Sample ID:	TB-10292024	SDG No.:	P4615
Lab Sample ID:	P4615-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043620.D	1		10/30/24 13:38	VX103024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.1		70 (74) - 130 (125)	82%	SPK: 50
1868-53-7	Dibromofluoromethane	44.0		70 (75) - 130 (124)	88%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	142000	5.55			
540-36-3	1,4-Difluorobenzene	258000	6.763			
3114-55-4	Chlorobenzene-d5	227000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	103000	12.024			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/29/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/29/24
Client Sample ID:	TB-10292024	SDG No.:	P4615
Lab Sample ID:	P4615-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043620.D	1		10/30/24 13:38	VX103024

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.: P4615

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4615-04	TB-10292024	1,2-Dichloroethane-d4	50	41.0	82	70 (74)	130 (125)
		Dibromofluoromethane	50	44.0	88	70 (75)	130 (124)
		Toluene-d8	50	50.0	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.0	96	70 (77)	130 (121)
VX1030WBL01	VX1030WBL01	1,2-Dichloroethane-d4	50	44.0	88	70 (74)	130 (125)
		Dibromofluoromethane	50	45.0	90	70 (75)	130 (124)
		Toluene-d8	50	50.0	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.0	94	70 (77)	130 (121)
VX1030WBS01	VX1030WBS01	1,2-Dichloroethane-d4	50	46.0	92	70 (74)	130 (125)
		Dibromofluoromethane	50	48.0	96	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.0	104	70 (77)	130 (121)
VX1030WBSD0	VX1030WBSD01	1,2-Dichloroethane-d4	50	45.0	90	70 (74)	130 (125)
		Dibromofluoromethane	50	49.0	98	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.0	102	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4615

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043613.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1030WBS01	Dichlorodifluoromethane	20	17.0	ug/L	85			40 (69)	160 (116)	
	Chloromethane	20	17.0	ug/L	85			40 (65)	160 (116)	
	Vinyl chloride	20	18.0	ug/L	90			70 (65)	130 (117)	
	Bromomethane	20	19.0	ug/L	95			40 (58)	160 (125)	
	Chloroethane	20	18.0	ug/L	90			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.0	ug/L	90			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	19.0	ug/L	95			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.0	ug/L	90			70 (74)	130 (110)	
	Acetone	100	99.0	ug/L	99			40 (60)	160 (125)	
	Carbon disulfide	20	15.0	ug/L	75			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	19.0	ug/L	95			70 (78)	130 (114)	
	Methyl Acetate	20	18.0	ug/L	90			70 (67)	130 (125)	
	Methylene Chloride	20	18.0	ug/L	90			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.0	ug/L	90			70 (75)	130 (108)	
	1,1-Dichloroethane	20	18.0	ug/L	90			70 (78)	130 (112)	
	Cyclohexane	20	18.0	ug/L	90			70 (75)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.0	ug/L	90			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.0	ug/L	95			70 (77)	130 (110)	
	Bromochloromethane	20	18.0	ug/L	90			70 (70)	130 (124)	
	Chloroform	20	19.0	ug/L	95			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	18.0	ug/L	90			70 (80)	130 (108)	
	Methylcyclohexane	20	19.0	ug/L	95			70 (72)	130 (115)	
	Benzene	20	19.0	ug/L	95			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.0	ug/L	95			70 (80)	130 (115)	
	Trichloroethene	20	18.0	ug/L	90			70 (77)	130 (113)	
	1,2-Dichloropropane	20	19.0	ug/L	95			70 (83)	130 (111)	
	Bromodichloromethane	20	19.0	ug/L	95			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	100	ug/L	100			40 (74)	160 (118)	
	Toluene	20	20.0	ug/L	100			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	18.0	ug/L	90			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.0	ug/L	100			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.0	ug/L	100			70 (83)	130 (112)	
	2-Hexanone	100	100	ug/L	100			40 (73)	160 (117)	
	Dibromochloromethane	20	19.0	ug/L	95			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.0	ug/L	105			70 (81)	130 (110)	
	Tetrachloroethene	20	19.0	ug/L	95			70 (67)	130 (123)	
	Chlorobenzene	20	19.0	ug/L	95			70 (82)	130 (109)	
	Ethyl Benzene	20	19.0	ug/L	95			70 (83)	130 (109)	
	m/p-Xylenes	40	39.0	ug/L	98			70 (82)	130 (110)	
	o-Xylene	20	20.0	ug/L	100			70 (83)	130 (109)	
	Styrene	20	20.0	ug/L	100			70 (80)	130 (111)	
	Bromoform	20	18.0	ug/L	90			70 (79)	130 (109)	
	Isopropylbenzene	20	19.0	ug/L	95			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	19.0	ug/L	95			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	19.0	ug/L	95			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	19.0	ug/L	95			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	20.0	ug/L	100			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4615

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043613.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1030WBS01	1,2-Dibromo-3-Chloropropane	20	18.0	ug/L	90			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	20.0	ug/L	100			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	19.0	ug/L	95			70 (76)	130 (114)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4615

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043614.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1030WBSD01	Dichlorodifluoromethane	20	17.0	ug/L	85	0		40 (69)	160 (116)	20 (20)
	Chloromethane	20	17.0	ug/L	85	0		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.0	ug/L	90	0		70 (65)	130 (117)	20 (20)
	Bromomethane	20	18.0	ug/L	90	5		40 (58)	160 (125)	20 (20)
	Chloroethane	20	17.0	ug/L	85	6		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.0	ug/L	95	5		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	18.0	ug/L	90	5		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.0	ug/L	95	5		70 (74)	130 (110)	20 (20)
	Acetone	100	93.0	ug/L	93	6		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	16.0	ug/L	80	6		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	19.0	ug/L	95	0		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	18.0	ug/L	90	0		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	18.0	ug/L	90	0		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.0	ug/L	95	5		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	18.0	ug/L	90	0		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.0	ug/L	90	0		70 (75)	130 (110)	20 (20)
	2-Butanone	100	95.0	ug/L	95	5		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	18.0	ug/L	90	0		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	19.0	ug/L	95	0		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	18.0	ug/L	90	0		70 (70)	130 (124)	20 (20)
	Chloroform	20	19.0	ug/L	95	0		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	18.0	ug/L	90	0		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	19.0	ug/L	95	0		70 (72)	130 (115)	20 (20)
	Benzene	20	19.0	ug/L	95	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	19.0	ug/L	95	0		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.0	ug/L	95	5		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	19.0	ug/L	95	0		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	19.0	ug/L	95	0		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	99.0	ug/L	99	1		40 (74)	160 (118)	20 (20)
	Toluene	20	19.0	ug/L	95	5		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	18.0	ug/L	90	0		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	20.0	ug/L	100	0		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	20.0	ug/L	100	0		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	99.0	ug/L	99	1		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	19.0	ug/L	95	0		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	20.0	ug/L	100	5		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.0	ug/L	95	0		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.0	ug/L	95	0		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	19.0	ug/L	95	0		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	39.0	ug/L	98	0		70 (82)	130 (110)	20 (20)
	o-Xylene	20	20.0	ug/L	100	0		70 (83)	130 (109)	20 (20)
	Styrene	20	20.0	ug/L	100	0		70 (80)	130 (111)	20 (20)
	Bromoform	20	18.0	ug/L	90	0		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	20.0	ug/L	100	5		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	20.0	ug/L	100	5		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.0	ug/L	100	5		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	19.0	ug/L	95	0		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.0	ug/L	100	0		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4615

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043614.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1030WBSD01	1,2-Dibromo-3-Chloropropane	20	18.0	ug/L	90	0		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	20.0	ug/L	100	0		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	19.0	ug/L	95	0		70 (76)	130 (114)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1030WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4615 SAS No.: P4615 SDG NO.: P4615

Lab File ID: VX043612.D Lab Sample ID: VX1030WBL01

Date Analyzed: 10/30/2024 Time Analyzed: 10:22

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

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1030WBS01	VX1030WBS01	VX043613.D	10/30/2024
VX1030WBSD01	VX1030WBSD01	VX043614.D	10/30/2024
TB-10292024	P4615-04	VX043620.D	10/30/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4615 SAS No.: P4615 SDG NO.: P4615

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

Instrument ID: MSVOA_X BFB Injection Time: 10:09

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

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

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

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

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

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4615 SAS No.: P4615 SDG NO.: P4615

Lab File ID: VX043609.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:59

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	46.7
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	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	72
175	5.0 - 9.0% of mass 174	5.4 (7.5) 1
176	95.0 - 101.0% of mass 174	70.9 (98.5) 1
177	5.0 - 9.0% of mass 176	4.2 (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	VX043610.D	10/30/2024	09:26
VX1030WBL01	VX1030WBL01	VX043612.D	10/30/2024	10:22
VX1030WBS01	VX1030WBS01	VX043613.D	10/30/2024	10:56
VX1030WBSD01	VX1030WBSD01	VX043614.D	10/30/2024	11:19
TB-10292024	P4615-04	VX043620.D	10/30/2024	13:38

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4615 SAS No.: P4615 SDG NO.: P4615

Lab File ID: VX043610.D Date Analyzed: 10/30/2024

Instrument ID: MSVOA_X Time Analyzed: 09:26

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	150073	5.54	269353	6.76	239151	10.06
UPPER LIMIT	300146	6.044	538706	7.257	478302	10.555
LOWER LIMIT	75036.5	5.044	134677	6.257	119576	9.555
EPA SAMPLE NO.						
TB-10292024	141860	5.55	257724	6.76	226949	10.06
VX1030WBL01	124305	5.54	229429	6.76	204357	10.06
VX1030WBS01	148306	5.54	264784	6.76	239021	10.06
VX1030WBSD01	157679	5.55	281415	6.76	248802	10.06

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4615 SAS No.: P4615 SDG NO.: P4615

Lab File ID: VX043610.D Date Analyzed: 10/30/2024

Instrument ID: MSVOA_X Time Analyzed: 09:26

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

	IS4 AREA #	RT #				
12 HOUR STD	115673	12.018				
UPPER LIMIT	231346	12.518				
LOWER LIMIT	57836.5	11.518				
EPA SAMPLE NO.						
TB-10292024	102830	12.02				
VX1030WBL01	87309	12.02				
VX1030WBS01	117960	12.02				
VX1030WBSD01	119220	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1030WBL01	SDG No.:	P4615
Lab Sample ID:	VX1030WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043612.D	1		10/30/24 10:22	VX103024

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1030WBL01	SDG No.:	P4615
Lab Sample ID:	VX1030WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043612.D	1		10/30/24 10:22	VX103024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.6		70 (74) - 130 (125)	87%	SPK: 50
1868-53-7	Dibromofluoromethane	45.2		70 (75) - 130 (124)	90%	SPK: 50
2037-26-5	Toluene-d8	49.5		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	124000	5.544			
540-36-3	1,4-Difluorobenzene	229000	6.757			
3114-55-4	Chlorobenzene-d5	204000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	87300	12.018			

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1030WBL01	SDG No.:	P4615
Lab Sample ID:	VX1030WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043612.D	1		10/30/24 10:22	VX103024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1030WBS01	SDG No.:	P4615
Lab Sample ID:	VX1030WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043613.D	1		10/30/24 10:56	VX103024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.0		0.21	1.00	ug/L
74-87-3	Chloromethane	17.0		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.0		0.34	1.00	ug/L
74-83-9	Bromomethane	19.0		1.40	5.00	ug/L
75-00-3	Chloroethane	18.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.0		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.0		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.0		0.26	1.00	ug/L
67-64-1	Acetone	99.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	15.0		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.0		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.0		0.60	1.00	ug/L
75-09-2	Methylene Chloride	18.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.0		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.0		1.60	5.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.0		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.0		0.25	1.00	ug/L
74-97-5	Bromochloromethane	18.0		0.18	1.00	ug/L
67-66-3	Chloroform	19.0		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.0		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	19.0		0.19	1.00	ug/L
71-43-2	Benzene	19.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.0		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.0		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.0		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	19.0		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	20.0		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1030WBS01	SDG No.:	P4615
Lab Sample ID:	VX1030WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043613.D	1		10/30/24 10:56	VX103024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.0		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.0		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.0		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.0		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.0		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	39.0		0.31	2.00	ug/L
95-47-6	o-Xylene	20.0		0.14	1.00	ug/L
100-42-5	Styrene	20.0		0.16	1.00	ug/L
75-25-2	Bromoform	18.0		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.0		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.0		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.0		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.0		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.0		70 (74) - 130 (125)	92%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	148000	5.544			
540-36-3	1,4-Difluorobenzene	265000	6.757			
3114-55-4	Chlorobenzene-d5	239000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	118000	12.018			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1030WBS01	SDG No.:	P4615
Lab Sample ID:	VX1030WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043613.D	1		10/30/24 10:56	VX103024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
E966796	Total Alkanes	0	J		99.0	ug/L

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1030WBSD01	SDG No.:	P4615
Lab Sample ID:	VX1030WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043614.D	1		10/30/24 11:19	VX103024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.0		0.21	1.00	ug/L
74-87-3	Chloromethane	17.0		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.0		0.34	1.00	ug/L
74-83-9	Bromomethane	18.0		1.40	5.00	ug/L
75-00-3	Chloroethane	17.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.0		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.0		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.0		0.26	1.00	ug/L
67-64-1	Acetone	93.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.0		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.0		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.0		0.60	1.00	ug/L
75-09-2	Methylene Chloride	18.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.0		1.60	5.00	ug/L
78-93-3	2-Butanone	95.0		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.0		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.0		0.25	1.00	ug/L
74-97-5	Bromochloromethane	18.0		0.18	1.00	ug/L
67-66-3	Chloroform	19.0		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.0		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	19.0		0.19	1.00	ug/L
71-43-2	Benzene	19.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.0		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.0		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.0		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	19.0		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	99.0		0.75	5.00	ug/L
108-88-3	Toluene	19.0		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1030WBSD01	SDG No.:	P4615
Lab Sample ID:	VX1030WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043614.D	1		10/30/24 11:19	VX103024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.0		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.0		0.21	1.00	ug/L
591-78-6	2-Hexanone	99.0		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.0		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.0		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.0		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	39.0		0.31	2.00	ug/L
95-47-6	o-Xylene	20.0		0.14	1.00	ug/L
100-42-5	Styrene	20.0		0.16	1.00	ug/L
75-25-2	Bromoform	18.0		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	20.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.0		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.0		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.0		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.0		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.0		70 (74) - 130 (125)	90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	158000	5.55			
540-36-3	1,4-Difluorobenzene	281000	6.757			
3114-55-4	Chlorobenzene-d5	249000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	119000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1030WBSD01	SDG No.:	P4615
Lab Sample ID:	VX1030WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043614.D	1		10/30/24 11:19	VX103024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
E966796	Total Alkanes	0	J		99.0	ug/L

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

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

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4615 SAS No.: P4615 SDG No.: P4615

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

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

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

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

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

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

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4615 SAS No.: P4615 SDG No.: P4615

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

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

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

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

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

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4615 SAS No.: P4615 SDG No.: P4615

Instrument ID: MSVOA_X Calibration Date/Time: 10/30/2024 09:26

Lab File ID: VX043610.D Init. Calib. Date(s): 10/28/2024 10/28/2024

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.535	0.477		-10.8	20
Chloromethane	0.684	0.584	0.1	-14.6	20
Vinyl Chloride	0.634	0.571		-10	20
Bromomethane	0.259	0.237		-8.5	20
Chloroethane	0.223	0.203		-9.1	20
Trichlorofluoromethane	0.775	0.698		-10	20
1,1,2-Trichlorotrifluoroethane	0.524	0.507		-3.3	20
1,1-Dichloroethene	0.536	0.501		-6.4	20
Acetone	0.317	0.343		8.3	20
Carbon Disulfide	1.120	0.957		-14.6	20
Methyl tert-butyl Ether	2.037	1.972		-3.2	20
Methyl Acetate	0.925	0.882		-4.7	20
Methylene Chloride	0.682	0.636		-6.7	20
trans-1,2-Dichloroethene	0.566	0.534		-5.7	20
1,1-Dichloroethane	1.101	1.028	0.1	-6.5	20
Cyclohexane	0.842	0.762		-9.5	20
2-Butanone	0.462	0.468		1.3	20
Carbon Tetrachloride	0.444	0.405		-8.8	20
cis-1,2-Dichloroethene	0.723	0.716		-1	20
Bromochloromethane	0.524	0.533		1.8	20
Chloroform	1.154	1.104		-4.3	20
1,1,1-Trichloroethane	0.969	0.886		-8.6	20
Methylcyclohexane	0.499	0.481		-3.7	20
Benzene	1.341	1.280		-4.5	20
1,2-Dichloroethane	0.482	0.451		-6.5	20
Trichloroethene	0.333	0.323		-3	20
1,2-Dichloropropane	0.330	0.318		-3.7	20
Bromodichloromethane	0.446	0.457		2.5	20
4-Methyl-2-Pentanone	0.492	0.488		-0.8	20
Toluene	0.813	0.812		-0.2	20
t-1,3-Dichloropropene	0.479	0.489		2	20
cis-1,3-Dichloropropene	0.510	0.524		2.7	20
1,1,2-Trichloroethane	0.339	0.347		2.5	20
2-Hexanone	0.374	0.373		-0.1	20
Dibromochloromethane	0.335	0.357		6.6	20
1,2-Dibromoethane	0.351	0.354		0.6	20
Tetrachloroethene	0.314	0.299		-5	20
Chlorobenzene	1.076	1.032	0.3	-4	20

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4615 SAS No.: P4615 SDG No.: P4615

Instrument ID: MSVOA_X Calibration Date/Time: 10/30/2024 09:26

Lab File ID: VX043610.D Init. Calib. Date(s): 10/28/2024 10/28/2024

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.754	1.649		-6	20
m/p-Xylenes	0.671	0.654		-2.6	20
o-Xylene	0.674	0.664		-1.4	20
Styrene	1.120	1.140		1.8	20
Bromoform	0.253	0.264	0.1	4.7	20
Isopropylbenzene	3.542	3.300		-6.8	20
1,1,2,2-Tetrachloroethane	1.274	1.220	0.3	-4.2	20
1,3-Dichlorobenzene	1.639	1.625		-0.8	20
1,4-Dichlorobenzene	1.699	1.622		-4.5	20
1,2-Dichlorobenzene	1.676	1.677		0.1	20
1,2-Dibromo-3-Chloropropane	0.260	0.246		-5.1	20
1,2,4-Trichlorobenzene	1.017	1.063		4.5	20
1,2,3-Trichlorobenzene	1.073	1.092		1.8	20
1,2-Dichloroethane-d4	0.797	0.748		-6.2	20
Dibromofluoromethane	0.339	0.352		3.9	20
Toluene-d8	1.174	1.213		3.4	20
4-Bromofluorobenzene	0.435	0.462		6.1	20

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

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043620.D
Acq On : 30 Oct 2024 13:38
Operator : JC/MD
Sample : P4615-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10292024

Quant Time: Oct 31 09:42:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

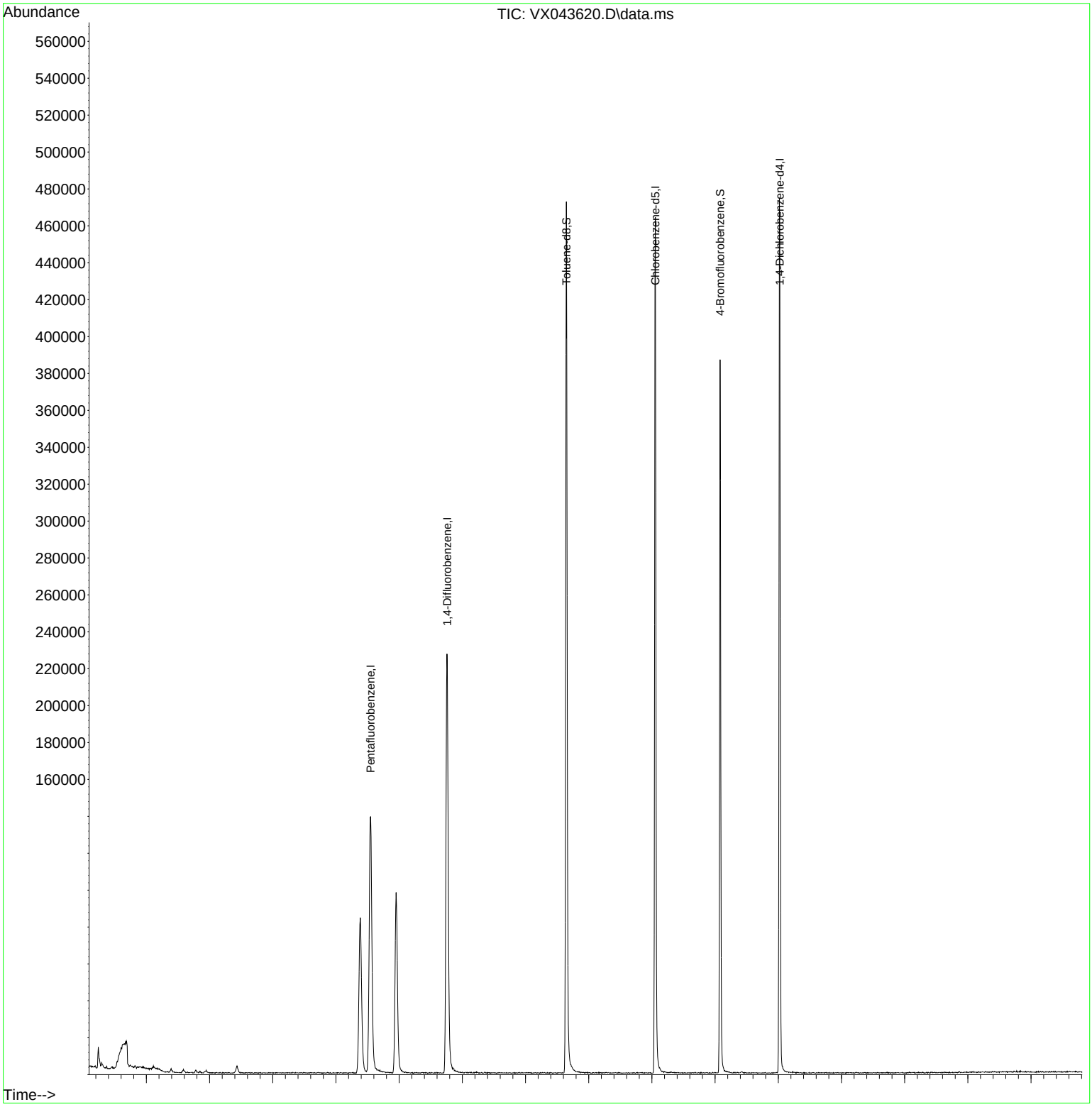
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	141860	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	257724	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	226949	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	102830	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	92963	41.098	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	82.200%		
35) Dibromofluoromethane	5.385	113	76925	44.017	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	88.040%		
50) Toluene-d8	8.647	98	300447	49.664	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.320%		
62) 4-Bromofluorobenzene	11.079	95	106618	47.561	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	95.120%		
Target Compounds						Qvalue
16) Acetone	2.392	43	1556	1.732	ug/l #	87

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

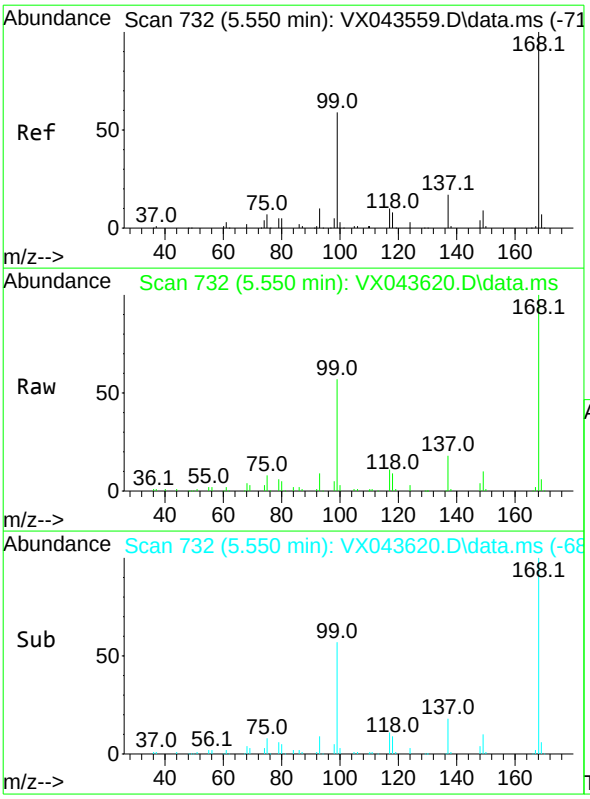
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043620.D
Acq On : 30 Oct 2024 13:38
Operator : JC/MD
Sample : P4615-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10292024

Quant Time: Oct 31 09:42:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



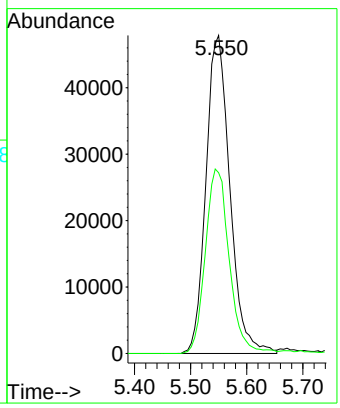
Instrument :
MSVOA_X
ClientSampleId :
TB-10292024

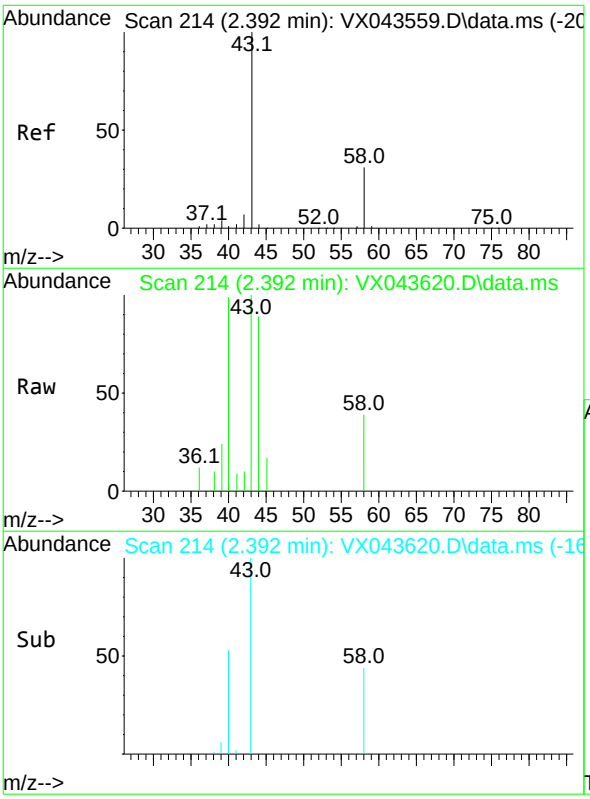


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX043620.D
Acq: 30 Oct 2024 13:38

Tgt Ion:168 Resp: 141860

Ion	Ratio	Lower	Upper
168	100		
99	56.8	52.6	78.8

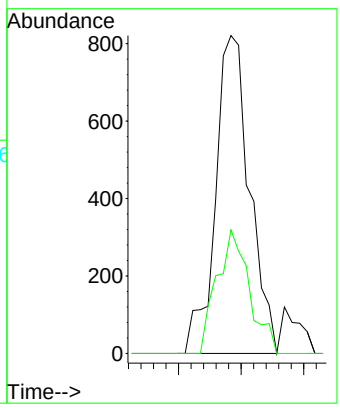


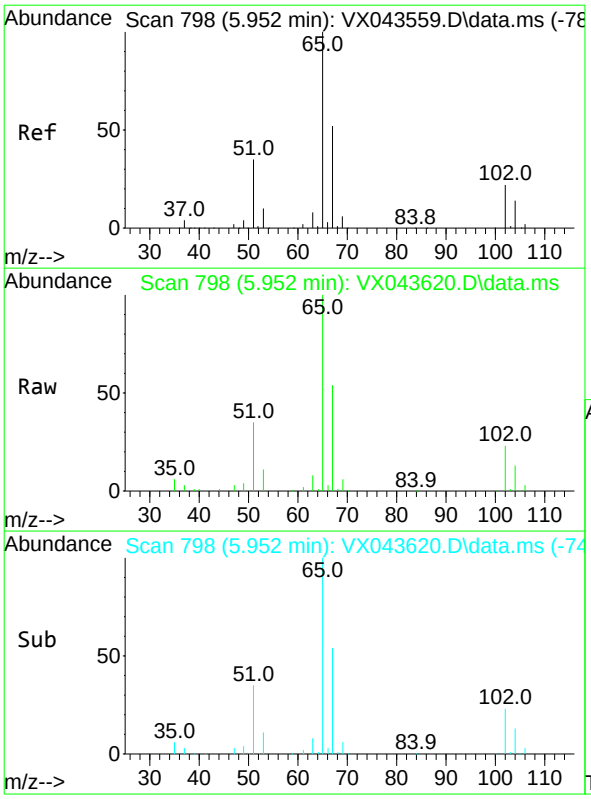


#16
Acetone
Concen: 1.732 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX043620.D
Acq: 30 Oct 2024 13:38

Tgt Ion: 43 Resp: 1556

Ion	Ratio	Lower	Upper
43	100		
58	38.9	25.1	37.7#



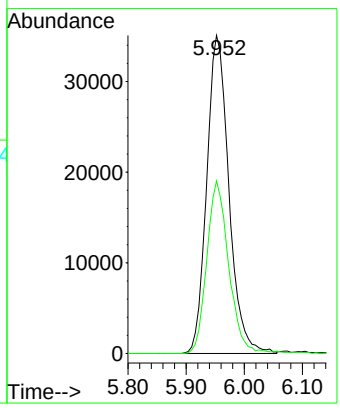


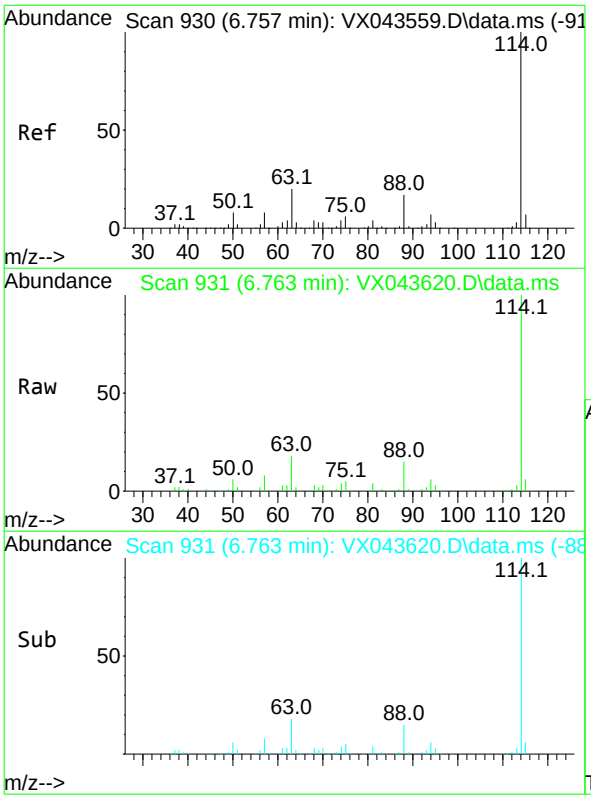
#33
1,2-Dichloroethane-d4
Concen: 41.098 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX043620.D
Acq: 30 Oct 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
TB-10292024

Tgt Ion: 65 Resp: 92963

Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	103.4

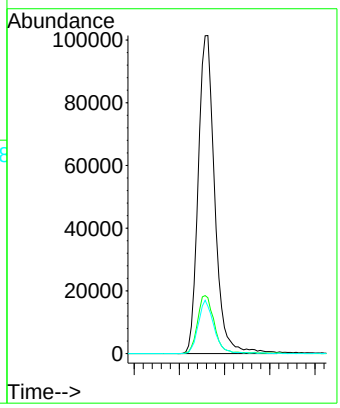




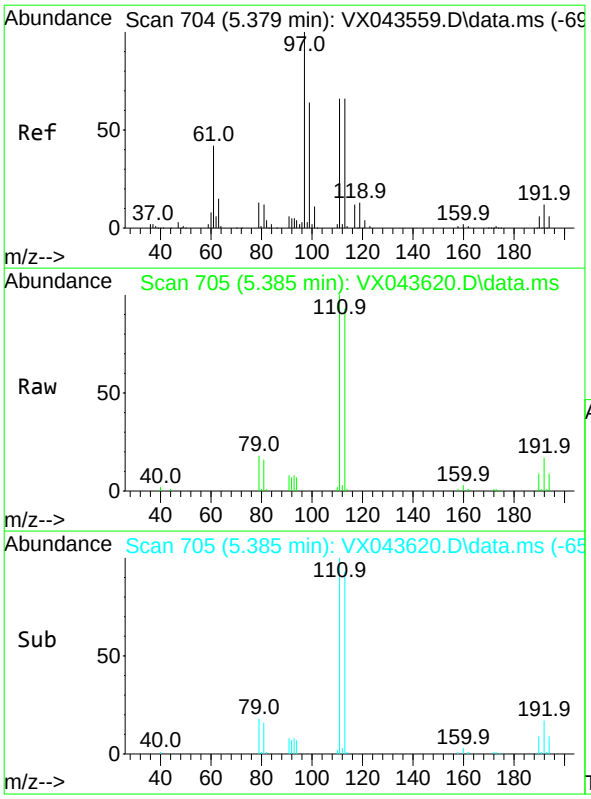
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.006 min
Lab File: VX043620.D
Acq: 30 Oct 2024 13:38

Tgt Ion:114 Resp: 257724

Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	41.2
88	14.9	0.0	34.0



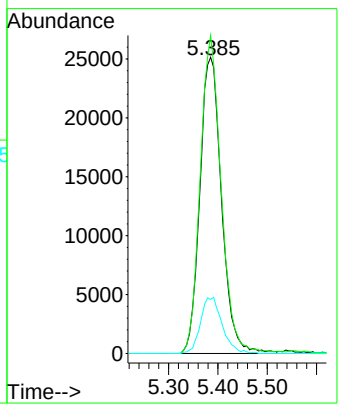
Instrument :
MSVOA_X
ClientSampleId :
TB-10292024

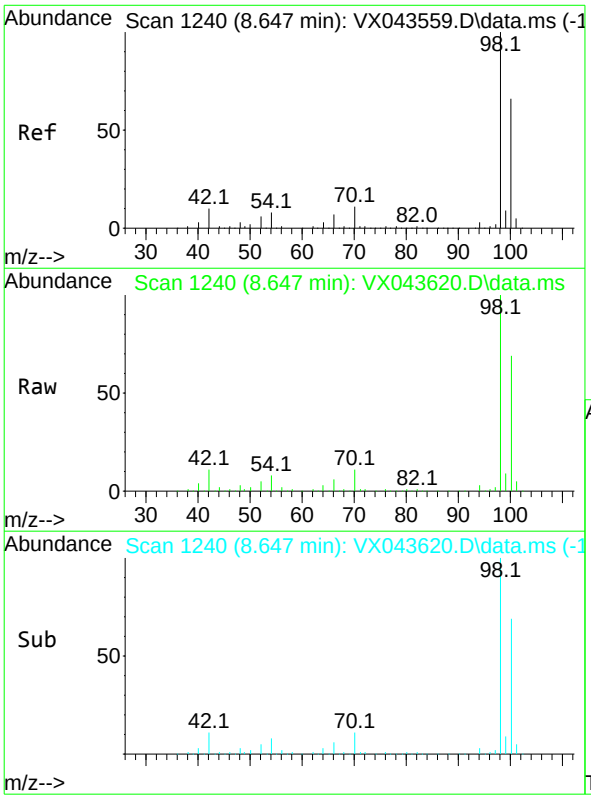


#35
Dibromofluoromethane
Concen: 44.017 ug/l
RT: 5.385 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX043620.D
Acq: 30 Oct 2024 13:38

Tgt Ion:113 Resp: 76925

Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.4	122.0
192	19.0	14.1	21.1

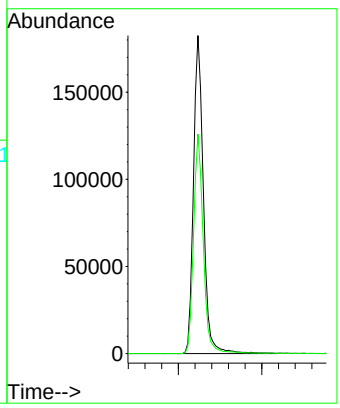


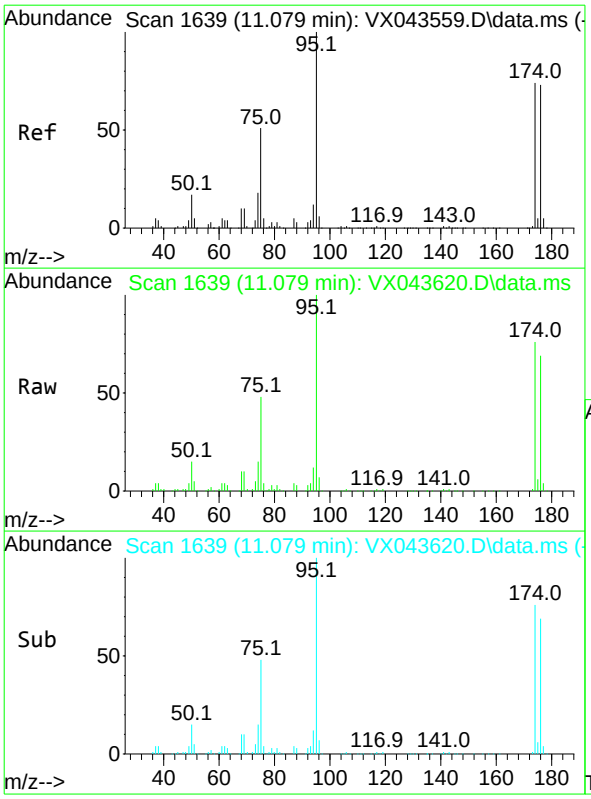


#50
Toluene-d8
Concen: 49.664 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX043620.D
Acq: 30 Oct 2024 13:38

Tgt Ion: 98 Resp: 300447

Ion	Ratio	Lower	Upper
98	100		
100	67.8	53.4	80.2



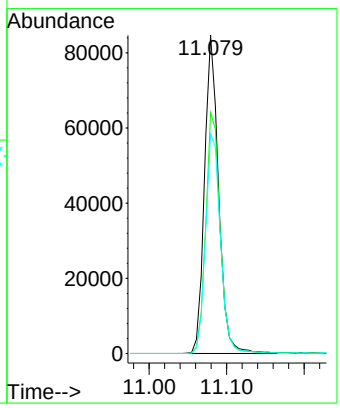


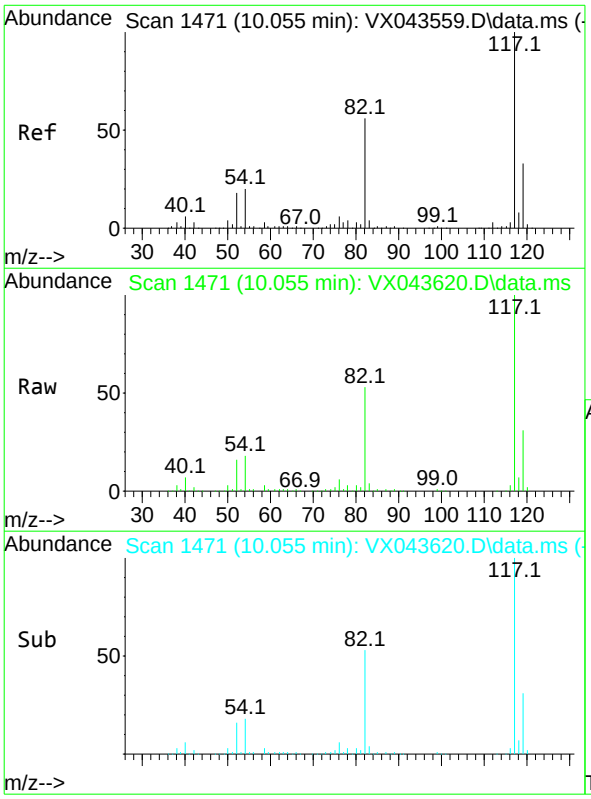
#62
4-Bromofluorobenzene
Concen: 47.561 ug/l
RT: 11.079 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX043620.D
Acq: 30 Oct 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
TB-10292024

Tgt Ion: 95 Resp: 106618

Ion	Ratio	Lower	Upper
95	100		
174	78.0	0.0	146.6
176	73.4	0.0	139.6

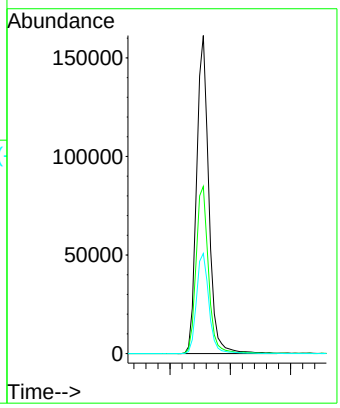


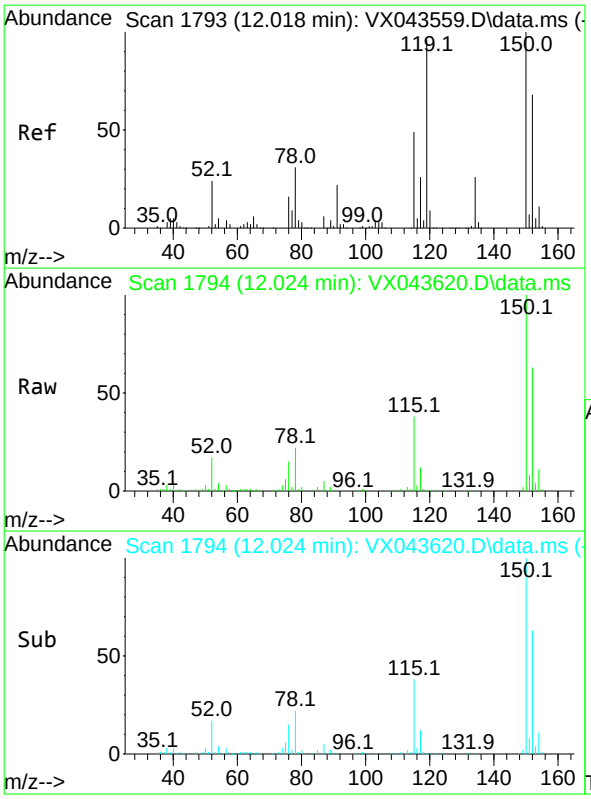


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX043620.D
Acq: 30 Oct 2024 13:38

Tgt Ion:117 Resp: 226949

Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.1	63.1
119	31.5	25.4	38.2



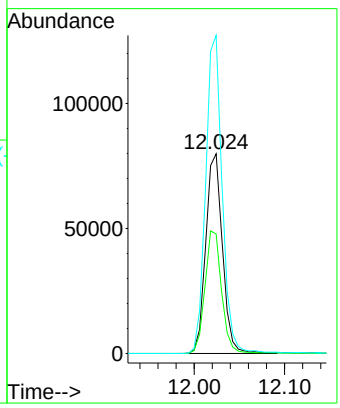


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX043620.D
Acq: 30 Oct 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
TB-10292024

Tgt Ion:152 Resp: 102830

Ion	Ratio	Lower	Upper
152	100		
115	61.5	42.9	128.7
150	157.4	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043620.D
Acq On : 30 Oct 2024 13:38
Operator : JC/MD
Sample : P4615-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10292024

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

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

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

Signal : TIC: VX043620.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	21	25	31	rBV	11251	16475	2.11%	0.403%
2	1.599	75	84	86	rBV6	7687	19907	2.55%	0.487%
3	3.434	377	385	394	rBV5	3870	8906	1.14%	0.218%
4	5.385	694	705	719	rBV3	84351	252310	32.26%	6.168%
5	5.550	721	732	748	rVV	138156	410768	52.52%	10.042%
6	5.952	789	798	812	rBV2	97895	259947	33.23%	6.355%
7	6.757	922	930	944	rBV	227070	565503	72.30%	13.824%
8	8.647	1233	1240	1264	rBV	472226	782189	100.00%	19.121%
9	10.055	1465	1471	1488	rBV	463818	666213	85.17%	16.286%
10	11.079	1634	1639	1650	rBV	386578	494364	63.20%	12.085%
11	12.018	1788	1793	1807	rBV	474141	614085	78.51%	15.012%

Sum of corrected areas: 4090667

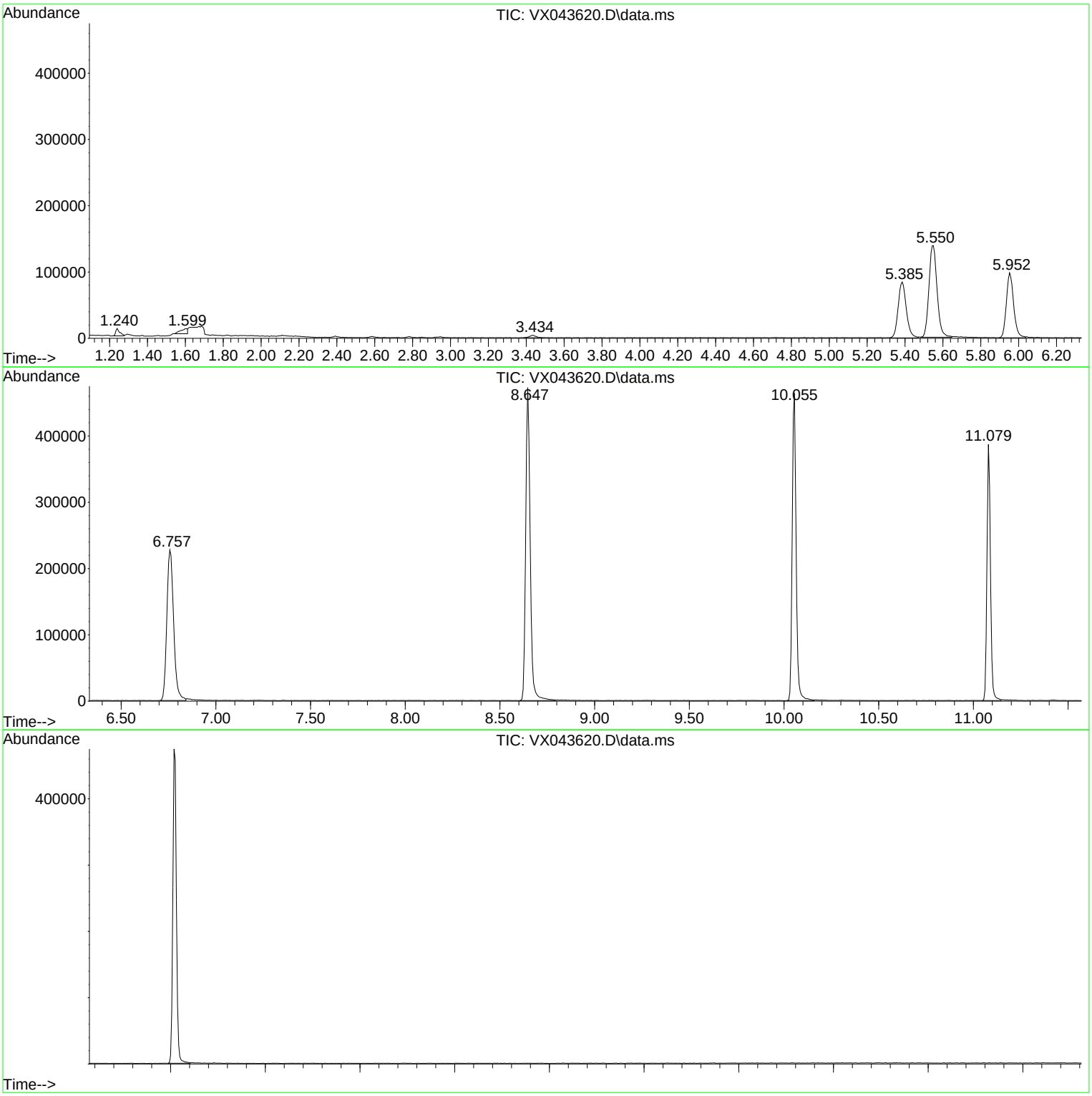
Sample Results: **VX043620.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043620.D
Acq On : 30 Oct 2024 13:38
Operator : JC/MD
Sample : P4615-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10292024

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043620.D
Acq On : 30 Oct 2024 13:38
Operator : JC/MD
Sample : P4615-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10292024

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

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043620.D
Acq On : 30 Oct 2024 13:38
Operator : JC/MD
Sample : P4615-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10292024

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043612.D
Acq On : 30 Oct 2024 10:22
Operator : JC/MD
Sample : VX1030WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBL01

Quant Time: Oct 31 09:41:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

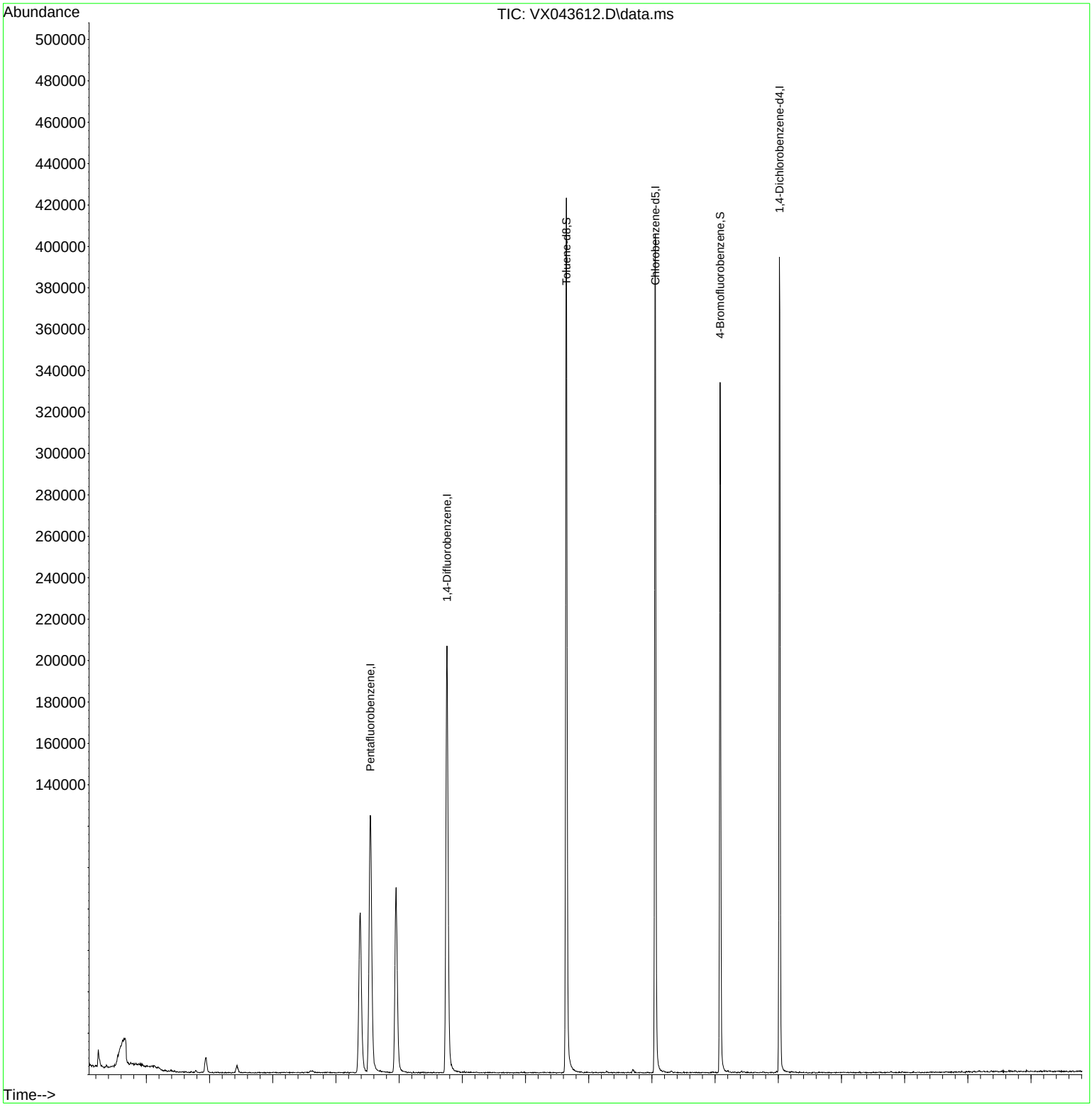
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	124305	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	229429	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	204357	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	87309	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	86399	43.590	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.180%		
35) Dibromofluoromethane	5.385	113	70244	45.151	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.300%		
50) Toluene-d8	8.647	98	266605	49.505	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.000%		
62) 4-Bromofluorobenzene	11.079	95	93954	47.081	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.160%		
Target Compounds						Qvalue

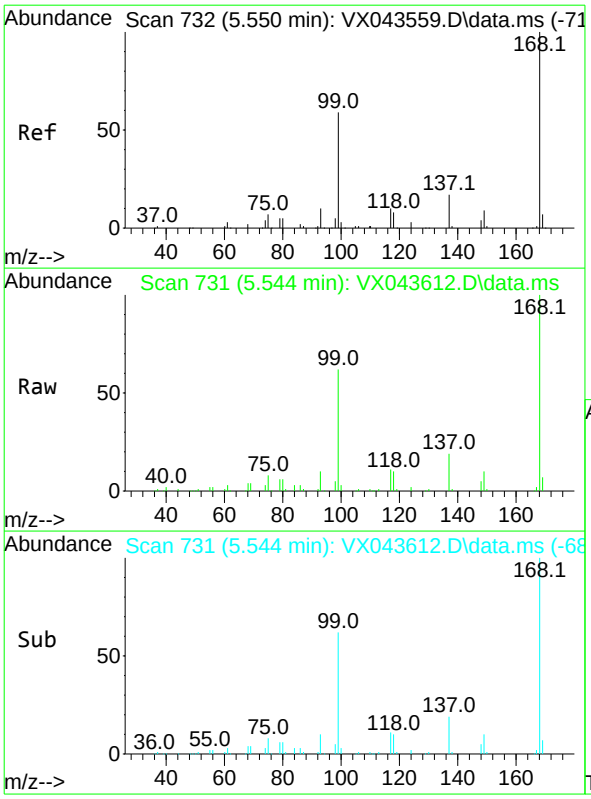
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043612.D
Acq On : 30 Oct 2024 10:22
Operator : JC/MD
Sample : VX1030WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBL01

Quant Time: Oct 31 09:41:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



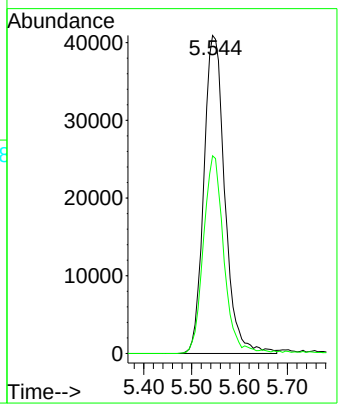


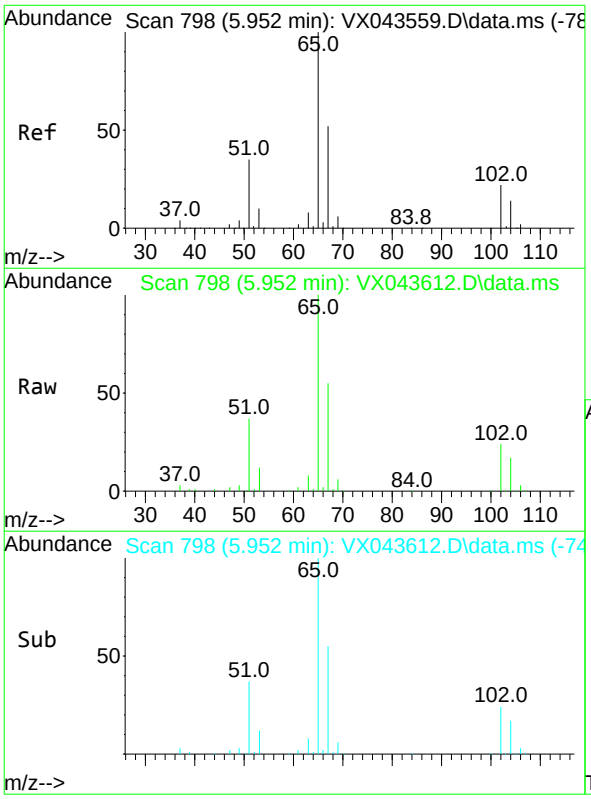
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX043612.D
Acq: 30 Oct 2024 10:22

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBL01

Tgt Ion:168 Resp: 124305

Ion	Ratio	Lower	Upper
168	100		
99	62.2	52.6	78.8

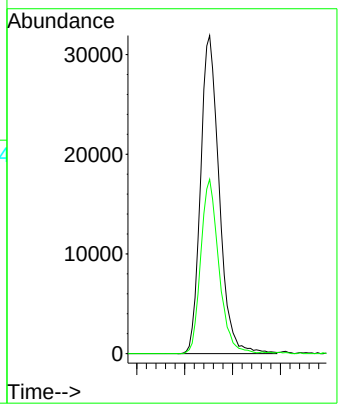




#33
1,2-Dichloroethane-d4
Concen: 43.590 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX043612.D
Acq: 30 Oct 2024 10:22

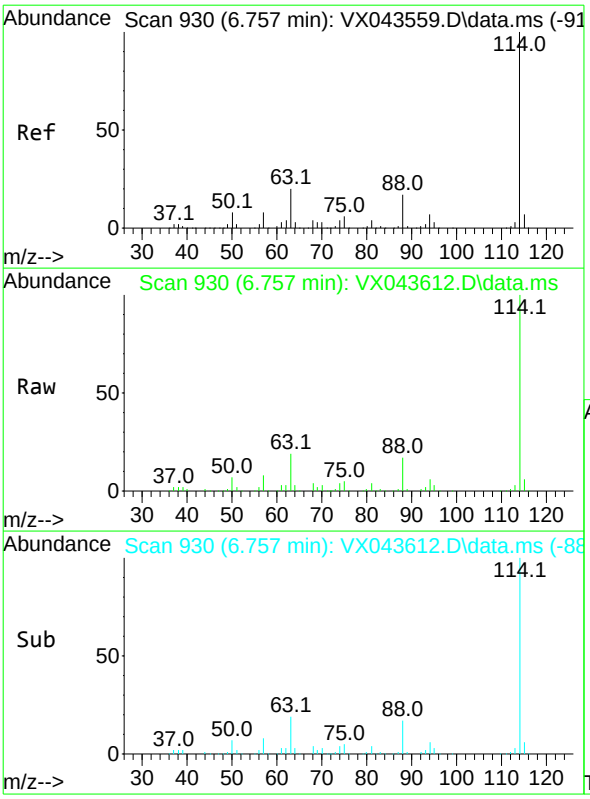
Tgt Ion: 65 Resp: 86399

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	103.4



5

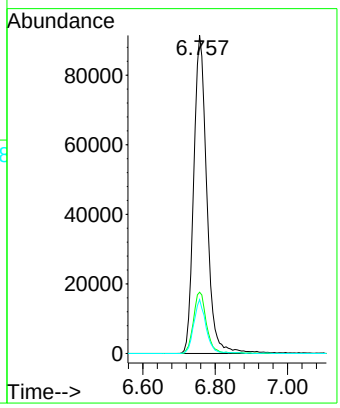
Instrument :
MSVOA_X
ClientSampleId :
VX1030WBL01

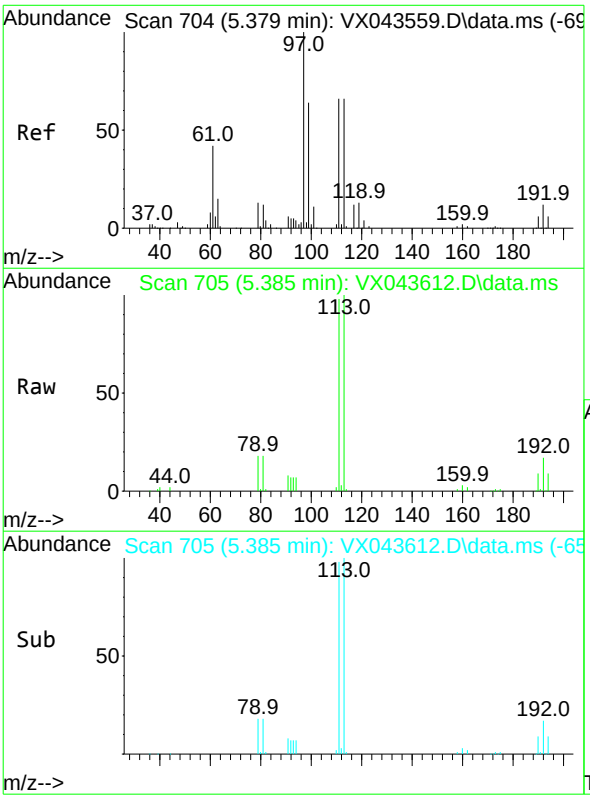


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX043612.D
Acq: 30 Oct 2024 10:22

Tgt Ion:114 Resp: 229429

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	41.2
88	17.0	0.0	34.0

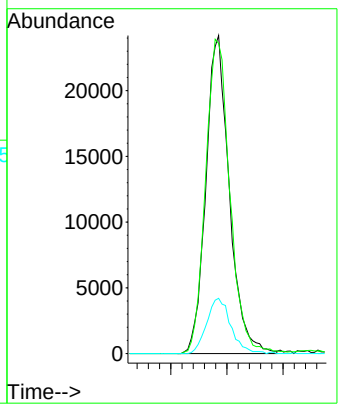


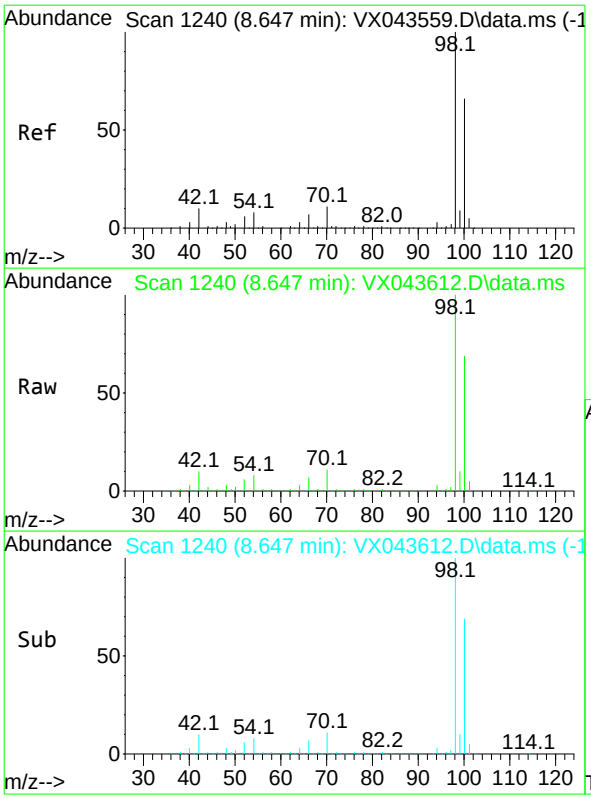


#35
Dibromofluoromethane
Concen: 45.151 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX043612.D
Acq: 30 Oct 2024 10:22

Tgt Ion:113 Resp: 70244

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.4	122.0
192	17.8	14.1	21.1



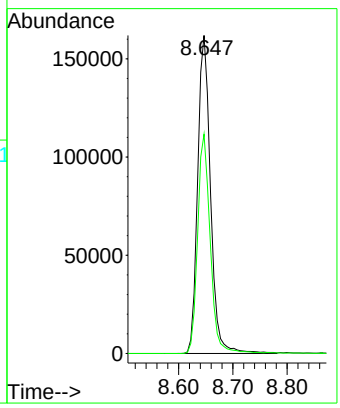


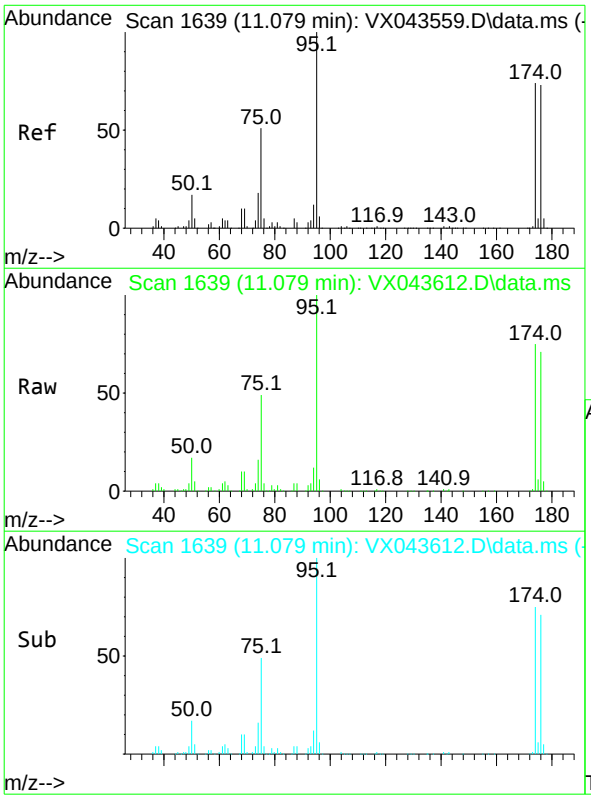
#50
Toluene-d8
Concen: 49.505 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX043612.D
Acq: 30 Oct 2024 10:22

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBL01

Tgt Ion: 98 Resp: 266605

Ion	Ratio	Lower	Upper
98	100		
100	67.5	53.4	80.2

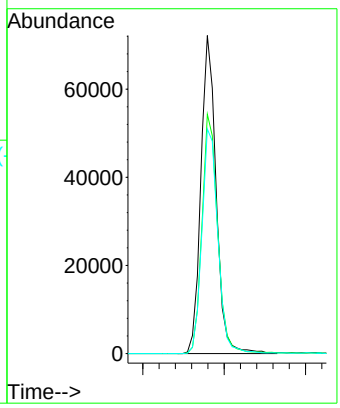


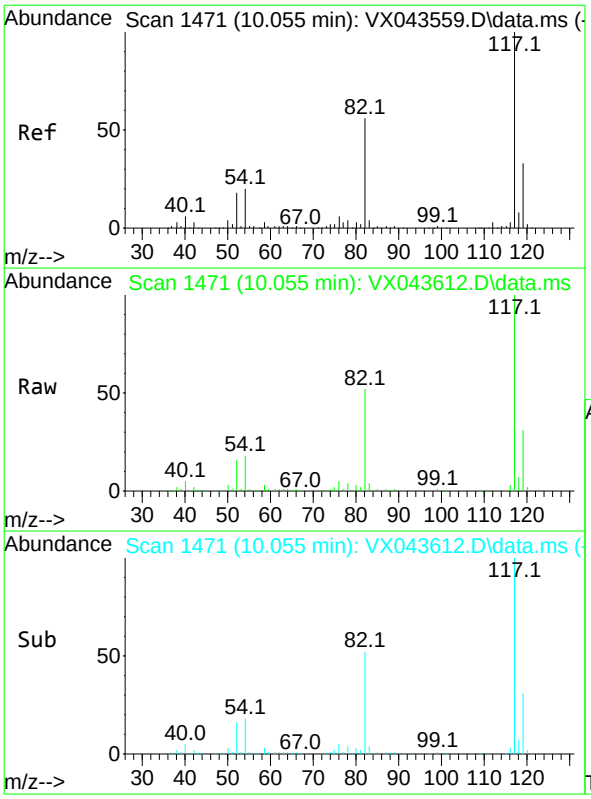


#62
4-Bromofluorobenzene
Concen: 47.081 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043612.D
Acq: 30 Oct 2024 10:22

Tgt Ion: 95 Resp: 93954

Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	146.6
176	73.9	0.0	139.6



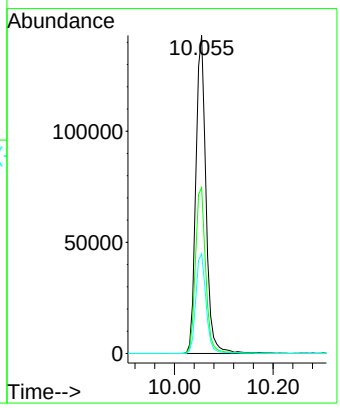


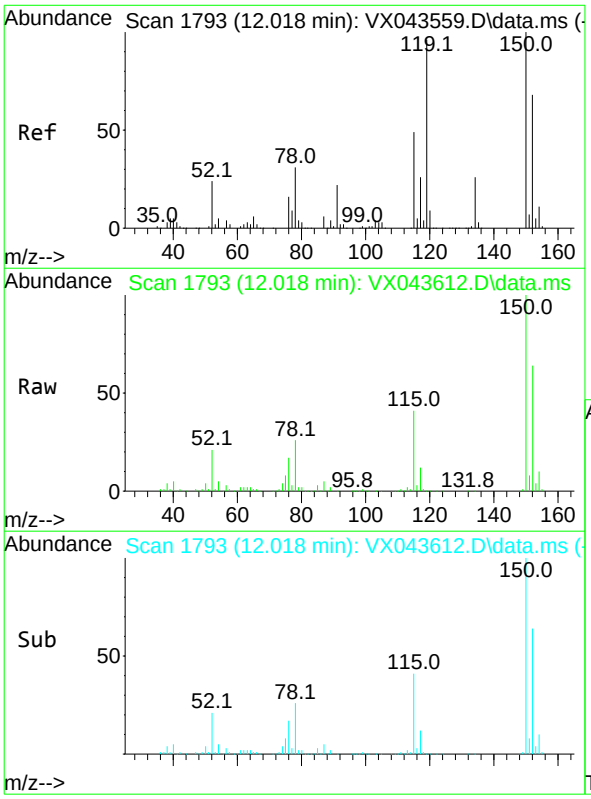
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX043612.D
Acq: 30 Oct 2024 10:22

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBL01

Tgt Ion:117 Resp: 204357

Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.1	63.1
119	31.3	25.4	38.2

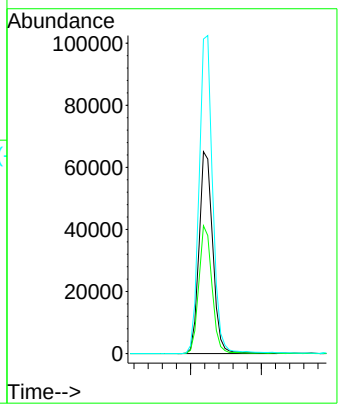




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX043612.D
Acq: 30 Oct 2024 10:22

Tgt Ion:152 Resp: 87309

Ion	Ratio	Lower	Upper
152	100		
115	61.0	42.9	128.7
150	157.3	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043612.D
Acq On : 30 Oct 2024 10:22
Operator : JC/MD
Sample : VX1030WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBL01

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

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

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

Signal : TIC: VX043612.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	22	25	32	rBV2	8176	12491	1.80%	0.343%
2	1.551	70	76	77	rBV4	5000	7445	1.07%	0.204%
3	1.624	77	88	90	rVV7	7799	24511	3.53%	0.672%
4	2.941	296	304	311	rBV2	7168	16664	2.40%	0.457%
5	5.385	691	705	716	rBV	77348	228288	32.86%	6.260%
6	5.544	722	731	752	rBV	123657	366158	52.70%	10.041%
7	5.952	787	798	814	rBV	89383	238665	34.35%	6.545%
8	6.757	920	930	951	rBV	206217	512246	73.72%	14.047%
9	8.647	1233	1240	1257	rBV	422407	694820	100.00%	19.054%
10	10.055	1465	1471	1486	rBV	405233	591930	85.19%	16.232%
11	11.079	1634	1639	1655	rBV	333319	438067	63.05%	12.013%
12	12.018	1788	1793	1806	rBV	393792	515301	74.16%	14.131%

Sum of corrected areas: 3646586

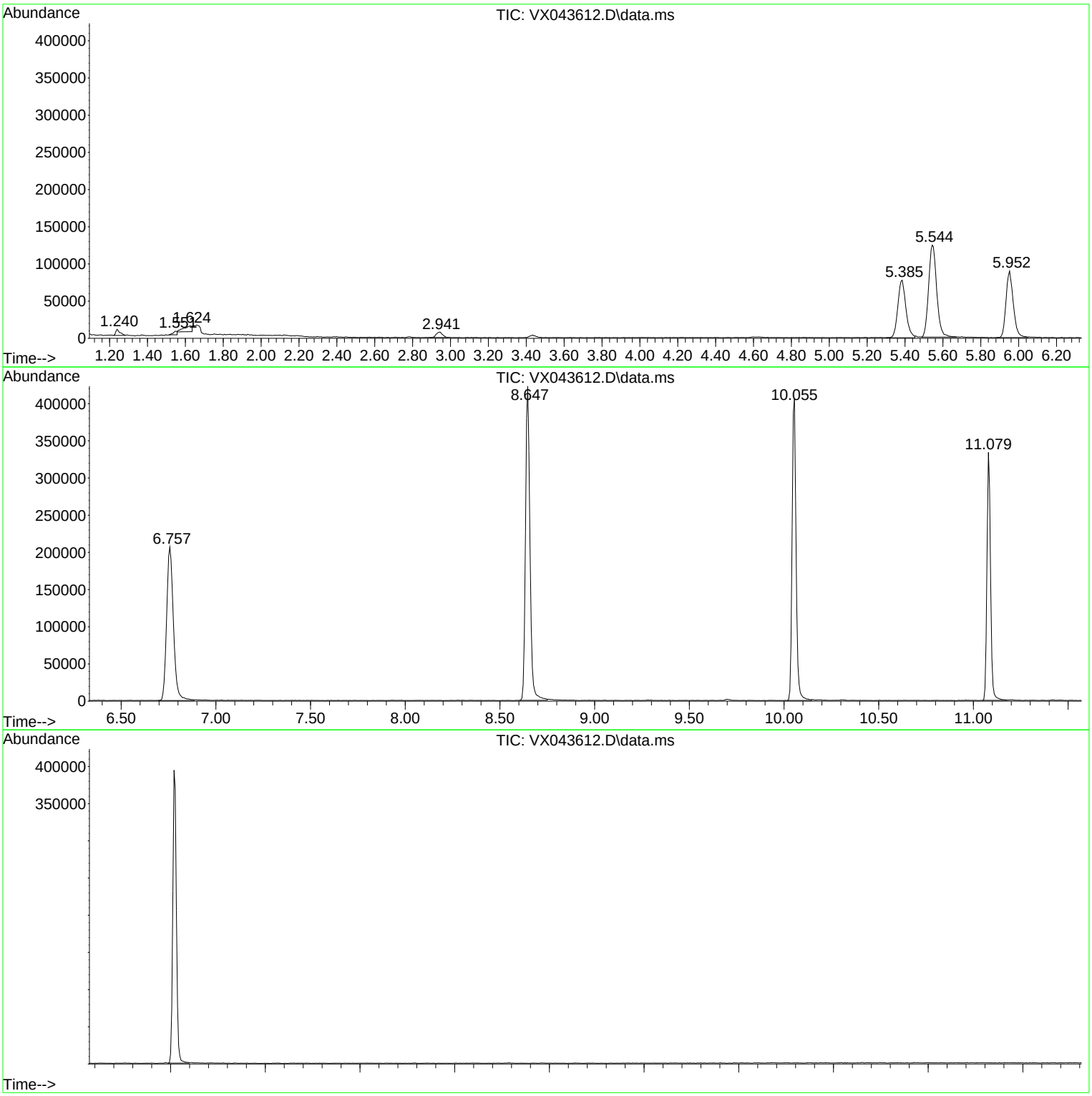
Sample Results: **VX043612.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043612.D
Acq On : 30 Oct 2024 10:22
Operator : JC/MD
Sample : VX1030WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBL01

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043612.D
Acq On : 30 Oct 2024 10:22
Operator : JC/MD
Sample : VX1030WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBL01

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

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043612.D
Acq On : 30 Oct 2024 10:22
Operator : JC/MD
Sample : VX1030WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBL01

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043613.D
Acq On : 30 Oct 2024 10:56
Operator : JC/MD
Sample : VX1030WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 09:41:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	148306	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	264784	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	239021	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	117960	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	108212	45.760	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.520%			
35) Dibromofluoromethane	5.379	113	87025	48.469	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.940%			
50) Toluene-d8	8.647	98	314569	50.612	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.220%			
62) 4-Bromofluorobenzene	11.079	95	119367	51.829	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	27753	17.498	ug/l	98
3) Chloromethane	1.295	50	34439	16.986	ug/l	100
4) Vinyl Chloride	1.374	62	33498	17.803	ug/l	96
5) Bromomethane	1.593	94	14288	18.626	ug/l	93
6) Chloroethane	1.660	64	11760	17.740	ug/l	92
7) Trichlorofluoromethane	1.861	101	40651	17.685	ug/l	99
8) Diethyl Ether	2.130	74	19398	18.264	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.313	101	29454	18.947	ug/l	96
10) Methyl Iodide	2.441	142	41395	18.431	ug/l	97
11) Tert butyl alcohol	3.008	59	41254m	93.465	ug/l	
12) 1,1-Dichloroethene	2.307	96	28154	17.722	ug/l	94
13) Acrolein	2.233	56	26661	77.239	ug/l	97
14) Allyl chloride	2.654	41	46642	16.975	ug/l	97
15) Acrylonitrile	3.069	53	98528	98.870	ug/l	99
16) Acetone	2.386	43	93396	99.457	ug/l	100
17) Carbon Disulfide	2.496	76	48946	14.734	ug/l	99
18) Methyl Acetate	2.703	43	50644	18.453	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	113805	18.837	ug/l	98
20) Methylene Chloride	2.782	84	36896	18.230	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	30527	18.189	ug/l	95
22) Diisopropyl ether	3.764	45	107460	18.921	ug/l	96
23) Vinyl Acetate	3.721	43	443752	94.573	ug/l	99
24) 1,1-Dichloroethane	3.599	63	58738	17.994	ug/l	98
25) 2-Butanone	4.568	43	137643	100.482	ug/l	99
26) 2,2-Dichloropropane	4.465	77	47680	17.844	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	40483	18.882	ug/l	98
28) Bromochloromethane	4.891	49	28671	18.463	ug/l	95
29) Tetrahydrofuran	5.013	42	85231	95.744	ug/l	97
30) Chloroform	5.080	83	64399	18.820	ug/l	94
31) Cyclohexane	5.458	56	45048	18.042	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	50740	17.662	ug/l	98
36) 1,1-Dichloropropene	5.684	75	38518	18.092	ug/l	97
37) Ethyl Acetate	4.715	43	51646	19.981	ug/l	98
38) Carbon Tetrachloride	5.666	117	41334	17.571	ug/l	99
39) Methylcyclohexane	7.373	83	50783	19.212	ug/l	100
40) Benzene	6.031	78	135317	19.052	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043613.D
Acq On : 30 Oct 2024 10:56
Operator : JC/MD
Sample : VX1030WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 09:41:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	27603	20.345	ug/l		95
42) 1,2-Dichloroethane	6.080	62	48172	18.866	ug/l		97
43) Isopropyl Acetate	6.336	43	80680	18.875	ug/l		97
44) Trichloroethene	7.123	130	32171	18.233	ug/l		93
45) 1,2-Dichloropropane	7.428	63	33302	19.042	ug/l		100
46) Dibromomethane	7.580	93	25774	19.140	ug/l		95
47) Bromodichloromethane	7.818	83	43771	18.529	ug/l		98
48) Methyl methacrylate	7.696	41	39830	19.653	ug/l		96
49) 1,4-Dioxane	7.671	88	14140	339.602	ug/l		96
51) 4-Methyl-2-Pentanone	8.574	43	269977	103.625	ug/l		99
52) Toluene	8.714	92	84865	19.702	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	46488	18.322	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	52745	19.511	ug/l		95
55) 1,1,2-Trichloroethane	9.153	97	36754	20.499	ug/l		99
56) Ethyl methacrylate	9.116	69	59004	20.253	ug/l		94
57) 1,3-Dichloropropane	9.305	76	61622	20.664	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	140409	99.511	ug/l		97
59) 2-Hexanone	9.433	43	205521	103.864	ug/l		98
60) Dibromochloromethane	9.519	129	34532	19.450	ug/l		100
61) 1,2-Dibromoethane	9.610	107	38155	20.500	ug/l		97
64) Tetrachloroethene	9.269	164	28659	19.064	ug/l		95
65) Chlorobenzene	10.080	112	100050	19.456	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	32872	19.571	ug/l		98
67) Ethyl Benzene	10.189	91	159115	18.976	ug/l		98
68) m/p-Xylenes	10.299	106	126258	39.374	ug/l		94
69) o-Xylene	10.640	106	64722	20.088	ug/l		95
70) Styrene	10.653	104	108183	20.202	ug/l		99
71) Bromoform	10.799	173	22030	18.241	ug/l	#	97
73) Isopropylbenzene	10.964	105	156713	18.755	ug/l		100
74) N-amyl acetate	10.842	43	73630	18.089	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.213	83	58265	19.391	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	47409m	18.797	ug/l		
77) Bromobenzene	11.195	156	42214	19.565	ug/l		96
78) n-propylbenzene	11.305	91	172894	18.977	ug/l		98
79) 2-Chlorotoluene	11.366	91	112270	18.584	ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	134164	19.257	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	15721	17.148	ug/l		96
82) 4-Chlorotoluene	11.451	91	128383	18.933	ug/l		96
83) tert-Butylbenzene	11.713	119	134426	18.972	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	136562	19.234	ug/l		97
85) sec-Butylbenzene	11.890	105	160544	19.331	ug/l		99
86) p-Isopropyltoluene	12.006	119	136876	19.389	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	73659	19.047	ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	76016	18.970	ug/l		100
89) n-Butylbenzene	12.329	91	109400	19.018	ug/l		99
90) Hexachloroethane	12.536	117	20716	18.065	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	79439	20.088	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	10780	17.599	ug/l		91
93) 1,2,4-Trichlorobenzene	13.585	180	47511	19.794	ug/l		99
94) Hexachlorobutadiene	13.725	225	16964	19.168	ug/l		98
95) Naphthalene	13.774	128	179816	19.576	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	48793	19.280	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043613.D
Acq On : 30 Oct 2024 10:56
Operator : JC/MD
Sample : VX1030WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 09:41:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

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

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

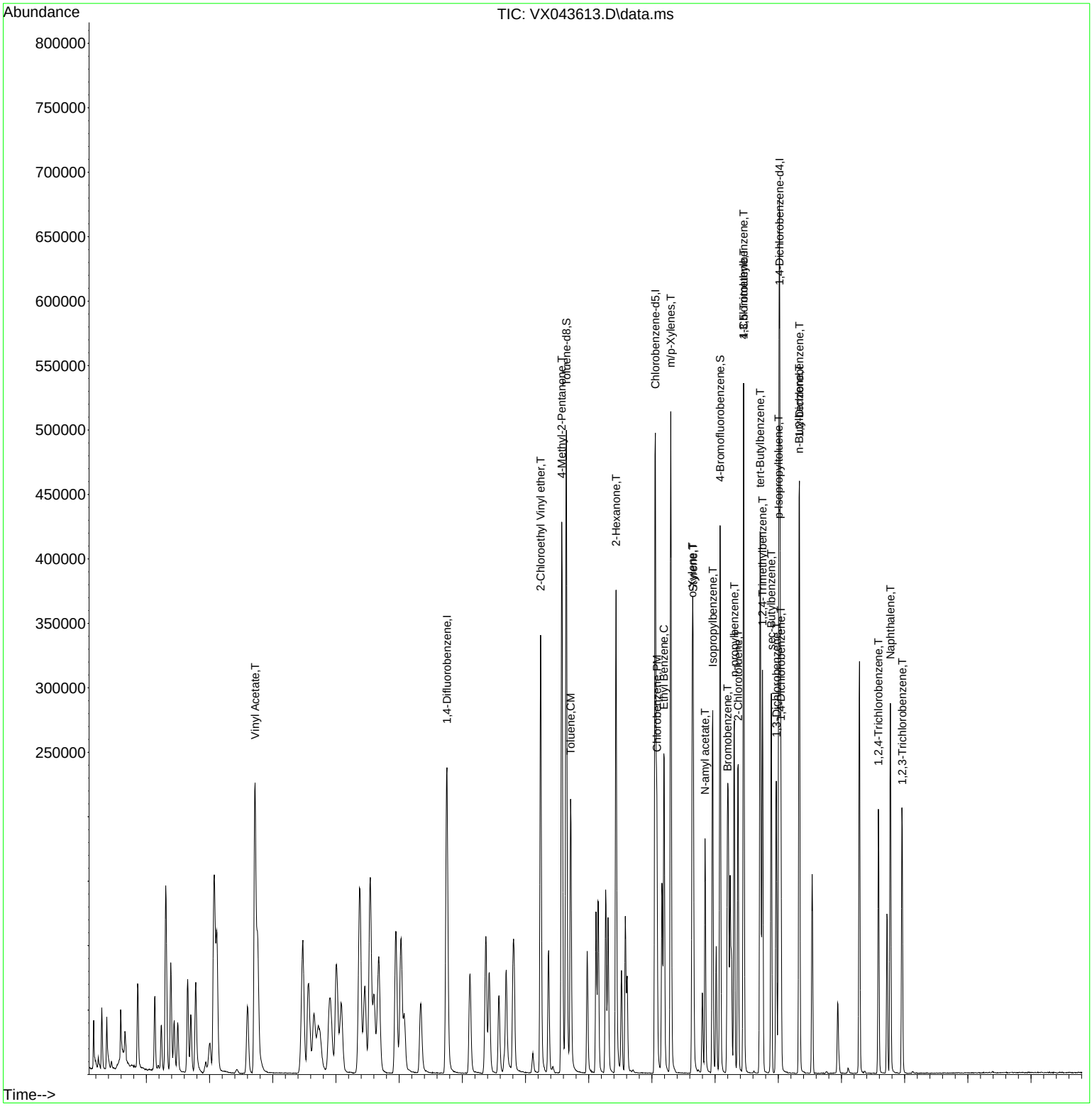
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043613.D
Acq On : 30 Oct 2024 10:56
Operator : JC/MD
Sample : VX1030WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 09:41:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043614.D
Acq On : 30 Oct 2024 11:19
Operator : JC/MD
Sample : VX1030WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 09:41:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBSD01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	157679	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	281415	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	248802	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	119220	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	112626	44.795	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.600%			
35) Dibromofluoromethane	5.379	113	92995	48.733	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.460%			
50) Toluene-d8	8.647	98	335191	50.743	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.480%			
62) 4-Bromofluorobenzene	11.079	95	123926	50.628	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	27940	16.569	ug/l	98
3) Chloromethane	1.294	50	36065	16.731	ug/l	95
4) Vinyl Chloride	1.374	62	35228	17.609	ug/l	100
5) Bromomethane	1.593	94	14277	17.506	ug/l	93
6) Chloroethane	1.660	64	12181	17.283	ug/l	99
7) Trichlorofluoromethane	1.861	101	45559	18.641	ug/l	97
8) Diethyl Ether	2.136	74	21084	18.672	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	30100	18.211	ug/l	97
10) Methyl Iodide	2.441	142	44646	18.696	ug/l	96
11) Tert butyl alcohol	3.026	59	44708	95.269	ug/l #	100
12) 1,1-Dichloroethene	2.300	96	31601	18.710	ug/l	83
13) Acrolein	2.239	56	29320	79.893	ug/l	100
14) Allyl chloride	2.654	41	51142	17.506	ug/l	95
15) Acrylonitrile	3.068	53	101370	95.675	ug/l	99
16) Acetone	2.392	43	92756	92.904	ug/l	97
17) Carbon Disulfide	2.495	76	55868	15.818	ug/l	98
18) Methyl Acetate	2.709	43	51638	17.696	ug/l	97
19) Methyl tert-butyl Ether	3.123	73	118846	18.502	ug/l	95
20) Methylene Chloride	2.782	84	39266	18.248	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	33222	18.618	ug/l	92
22) Diisopropyl ether	3.763	45	114469	18.957	ug/l	96
23) Vinyl Acetate	3.721	43	466636	93.538	ug/l	99
24) 1,1-Dichloroethane	3.605	63	63898	18.411	ug/l	96
25) 2-Butanone	4.568	43	138202	94.893	ug/l	99
26) 2,2-Dichloropropane	4.465	77	50669	17.835	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	42897	18.819	ug/l	99
28) Bromochloromethane	4.897	49	29364	17.785	ug/l	93
29) Tetrahydrofuran	5.013	42	87263	92.199	ug/l	97
30) Chloroform	5.086	83	67605	18.582	ug/l	98
31) Cyclohexane	5.464	56	46997	17.704	ug/l	92
32) 1,1,1-Trichloroethane	5.367	97	56389	18.461	ug/l	98
36) 1,1-Dichloropropene	5.684	75	41049	18.141	ug/l	97
37) Ethyl Acetate	4.721	43	51358	18.695	ug/l	97
38) Carbon Tetrachloride	5.666	117	45626	18.249	ug/l	97
39) Methylcyclohexane	7.379	83	52713	18.764	ug/l	97
40) Benzene	6.031	78	143938	19.068	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043614.D
Acq On : 30 Oct 2024 11:19
Operator : JC/MD
Sample : VX1030WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 09:41:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.928	41	27315	18.943 ug/l		95
42) 1,2-Dichloroethane	6.086	62	50592	18.643 ug/l		97
43) Isopropyl Acetate	6.342	43	82905	18.249 ug/l		97
44) Trichloroethene	7.123	130	36404	19.412 ug/l		93
45) 1,2-Dichloropropane	7.427	63	34715	18.677 ug/l		99
46) Dibromomethane	7.580	93	27137	18.962 ug/l		96
47) Bromodichloromethane	7.824	83	47087	18.755 ug/l		98
48) Methyl methacrylate	7.696	41	40559	18.830 ug/l		95
49) 1,4-Dioxane	7.671	88	20054	453.175 ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	274856	99.263 ug/l		99
52) Toluene	8.720	92	89001	19.441 ug/l		98
53) t-1,3-Dichloropropene	8.976	75	49630	18.405 ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	56632	19.711 ug/l		95
55) 1,1,2-Trichloroethane	9.153	97	38640	20.277 ug/l		96
56) Ethyl methacrylate	9.122	69	60528	19.548 ug/l		96
57) 1,3-Dichloropropane	9.305	76	65075	20.533 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	146639	97.785 ug/l		98
59) 2-Hexanone	9.433	43	208999	99.380 ug/l		97
60) Dibromochloromethane	9.519	129	35994	19.075 ug/l		99
61) 1,2-Dibromoethane	9.610	107	39491	19.964 ug/l		96
64) Tetrachloroethene	9.269	164	29428	18.806 ug/l		98
65) Chlorobenzene	10.079	112	102589	19.166 ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.165	131	34926	19.976 ug/l		99
67) Ethyl Benzene	10.195	91	166637	19.092 ug/l		100
68) m/p-Xylenes	10.299	106	131049	39.261 ug/l		96
69) o-Xylene	10.640	106	67783	20.211 ug/l		96
70) Styrene	10.652	104	112284	20.144 ug/l		99
71) Bromoform	10.799	173	22865	18.188 ug/l	#	94
73) Isopropylbenzene	10.963	105	165820	19.635 ug/l		99
74) N-amyl acetate	10.841	43	76994	18.715 ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	61842	20.364 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	54909m	21.541 ug/l		
77) Bromobenzene	11.195	156	42531	19.504 ug/l		97
78) n-propylbenzene	11.305	91	178082	19.340 ug/l		99
79) 2-Chlorotoluene	11.366	91	117122	19.182 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	139294	19.782 ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	16748	18.075 ug/l		96
82) 4-Chlorotoluene	11.451	91	133176	19.433 ug/l		97
83) tert-Butylbenzene	11.713	119	140860	19.670 ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	142104	19.803 ug/l		98
85) sec-Butylbenzene	11.890	105	167724	19.982 ug/l		99
86) p-Isopropyltoluene	12.006	119	142092	19.915 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	76690	19.621 ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	77335	19.095 ug/l		100
89) n-Butylbenzene	12.329	91	114292	19.658 ug/l		99
90) Hexachloroethane	12.536	117	21029	18.145 ug/l		91
91) 1,2-Dichlorobenzene	12.335	146	80678	20.186 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	11165	18.035 ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	47408	19.542 ug/l		99
94) Hexachlorobutadiene	13.725	225	16973	18.976 ug/l		96
95) Naphthalene	13.774	128	182510	19.660 ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	49655	19.413 ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043614.D
Acq On : 30 Oct 2024 11:19
Operator : JC/MD
Sample : VX1030WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 09:41:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

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

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

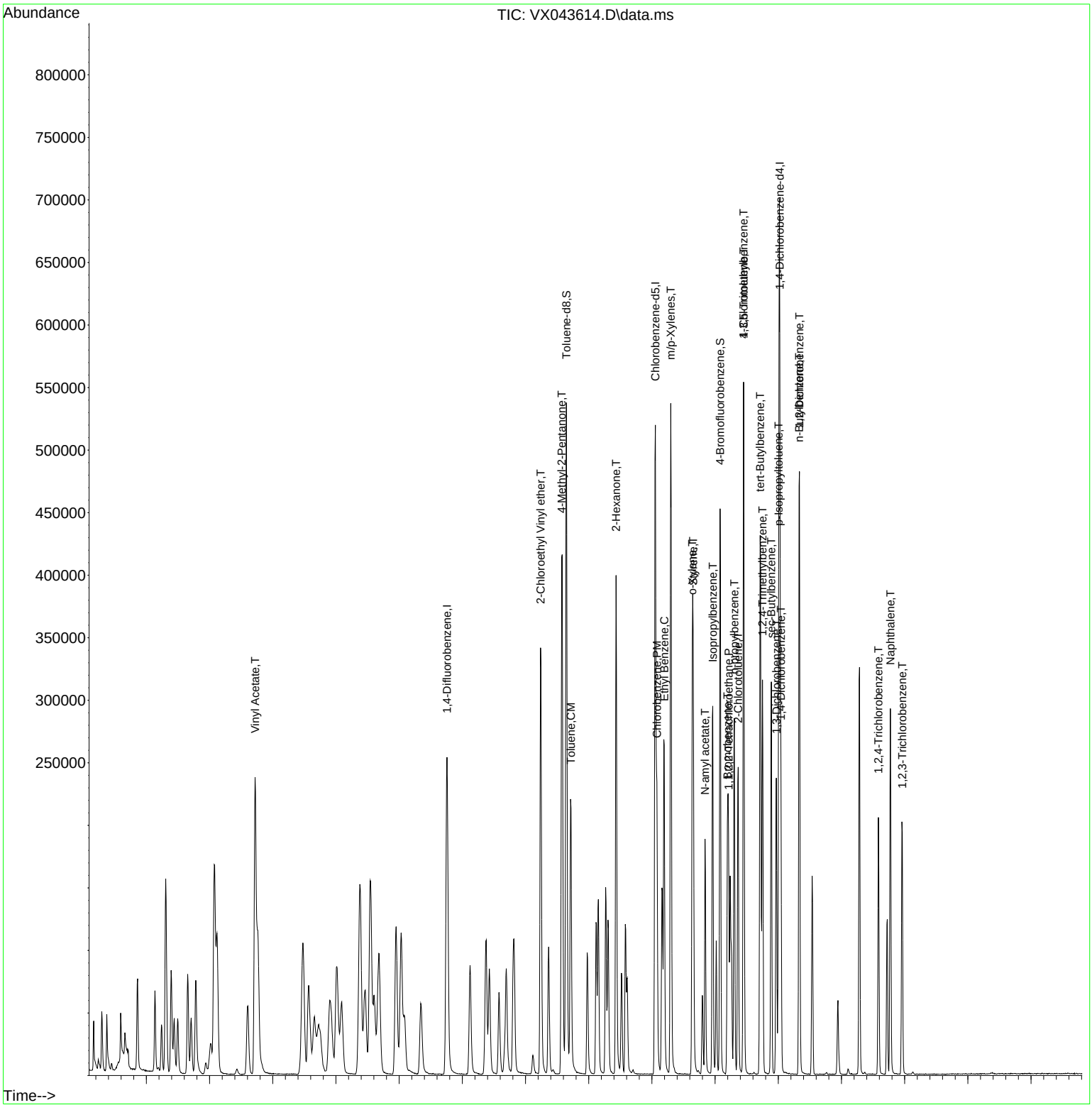
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX103024\
Data File : VX043614.D
Acq On : 30 Oct 2024 11:19
Operator : JC/MD
Sample : VX1030WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 09:41:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1030WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024



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

Manual Integration Report

Sequence:	VX102824	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX043556.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	1,4-Dichlorobenzene	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Ethyl Acetate	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Methacrylonitrile	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC005	VX043557.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:13 AM	MMDadoda	10/29/2024 12:19:39 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	Tert butyl alcohol	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	Tert butyl alcohol	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICC100	VX043560.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:22 AM	MMDadoda	10/29/2024 12:19:34 PM	Peak Integrated by Software
VSTDICC150	VX043561.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:57 AM	MMDadoda	10/29/2024 12:19:32 PM	Peak Integrated by Software
VSTDICV050	VX043563.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:27 AM	MMDadoda	10/29/2024 12:19:30 PM	Peak Integrated by Software
VSTDCCC050	VX043581.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:42 AM	MMDadoda	10/29/2024 12:19:26 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX102824	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	VX103024	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX043610.D	1,2,3-Trichloropropane	SAM	11/1/2024 3:35:56 PM	MMDadoda	11/1/2024 5:36:16 PM	Peak Integrated by Software
VX1030WBS01	VX043613.D	1,2,3-Trichloropropane	SAM	11/1/2024 3:36:01 PM	MMDadoda	11/1/2024 5:36:19 PM	Peak Integrated by Software
VX1030WBS01	VX043613.D	Tert butyl alcohol	SAM	11/1/2024 3:36:01 PM	MMDadoda	11/1/2024 5:36:19 PM	Peak Integrated by Software
VX1030WBSD01	VX043614.D	1,2,3-Trichloropropane	SAM	11/1/2024 3:36:06 PM	MMDadoda	11/1/2024 5:36:19 PM	Peak Integrated by Software
VSTDCCC050	VX043635.D	1,2,3-Trichloropropane	SAM	11/1/2024 3:36:12 PM	MMDadoda	11/1/2024 5:36:21 PM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM				
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043555.D	28 Oct 2024 10:09	JC/MD	Ok
2	VSTDICC001	VX043556.D	28 Oct 2024 10:59	JC/MD	Ok,M
3	VSTDICC005	VX043557.D	28 Oct 2024 11:22	JC/MD	Ok,M
4	VSTDICC020	VX043558.D	28 Oct 2024 11:45	JC/MD	Ok,M
5	VSTDICCC050	VX043559.D	28 Oct 2024 12:08	JC/MD	Ok,M
6	VSTDICC100	VX043560.D	28 Oct 2024 12:31	JC/MD	Ok,M
7	VSTDICC150	VX043561.D	28 Oct 2024 12:54	JC/MD	Ok,M
8	VIBLK	VX043562.D	28 Oct 2024 14:04	JC/MD	Ok
9	VSTDICV050	VX043563.D	28 Oct 2024 14:27	JC/MD	Ok,M
10	VX1028MBL01	VX043564.D	28 Oct 2024 15:02	JC/MD	Not Ok
11	VX1028WBL01	VX043565.D	28 Oct 2024 15:52	JC/MD	Ok
12	VX1028WBS01	VX043566.D	28 Oct 2024 16:28	JC/MD	Ok,M
13	VX1028WBSD01	VX043567.D	28 Oct 2024 16:51	JC/MD	Ok,M
14	PB164394TB	VX043568.D	28 Oct 2024 17:14	JC/MD	Ok
15	PB164394ZHE#01	VX043569.D	28 Oct 2024 17:38	JC/MD	Ok
16	PB164394ZHE#02	VX043570.D	28 Oct 2024 18:01	JC/MD	Ok
17	PB164394ZHE#03	VX043571.D	28 Oct 2024 18:24	JC/MD	Ok
18	PB164394ZHE#04	VX043572.D	28 Oct 2024 18:47	JC/MD	Ok
19	PB164394ZHE#05	VX043573.D	28 Oct 2024 19:10	JC/MD	Ok
20	PB164394ZHE#06	VX043574.D	28 Oct 2024 19:33	JC/MD	Ok
21	PB164394ZHE#07	VX043575.D	28 Oct 2024 19:56	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM				
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB164394ZHE#08	VX043576.D	28 Oct 2024 20:19	JC/MD	Ok
23	PB164394ZHE#09	VX043577.D	28 Oct 2024 20:42	JC/MD	Ok
24	PB164394ZHE#10	VX043578.D	28 Oct 2024 21:05	JC/MD	Ok
25	PB164394ZHE#11	VX043579.D	28 Oct 2024 21:28	JC/MD	Ok
26	PB164394ZHE#12	VX043580.D	28 Oct 2024 21:52	JC/MD	Ok
27	VSTDCCC050	VX043581.D	28 Oct 2024 22:15	JC/MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:36:25 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:36:37 PM		
SubDirectory	VX103024	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131182
Initial Calibration Stds	
CCC	VP131183,VP131184
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043609.D	30 Oct 2024 08:59	JC/MD	Ok
2	VSTDCCC050	VX043610.D	30 Oct 2024 09:26	JC/MD	Ok,M
3	VX1030MBL01	VX043611.D	30 Oct 2024 09:59	JC/MD	Ok
4	VX1030WBL01	VX043612.D	30 Oct 2024 10:22	JC/MD	Ok
5	VX1030WBS01	VX043613.D	30 Oct 2024 10:56	JC/MD	Ok,M
6	VX1030WBSD01	VX043614.D	30 Oct 2024 11:19	JC/MD	Ok,M
7	VIBLK	VX043615.D	30 Oct 2024 11:42	JC/MD	Ok
8	P4600-05	VX043616.D	30 Oct 2024 12:06	JC/MD	Ok
9	P4560-01	VX043617.D	30 Oct 2024 12:29	JC/MD	Not Ok
10	P4562-03	VX043618.D	30 Oct 2024 12:52	JC/MD	Ok
11	P4562-04	VX043619.D	30 Oct 2024 13:15	JC/MD	Ok
12	P4615-04	VX043620.D	30 Oct 2024 13:38	JC/MD	Ok
13	P4547-04	VX043621.D	30 Oct 2024 14:01	JC/MD	Ok
14	PB164501TB	VX043622.D	30 Oct 2024 14:24	JC/MD	Ok
15	PB164501ZHE#01	VX043623.D	30 Oct 2024 14:47	JC/MD	Ok
16	PB164501ZHE#02	VX043624.D	30 Oct 2024 15:11	JC/MD	Ok
17	PB164501ZHE#03	VX043625.D	30 Oct 2024 15:34	JC/MD	Ok
18	PB164501ZHE#04	VX043626.D	30 Oct 2024 15:57	JC/MD	Ok
19	PB164501ZHE#05	VX043627.D	30 Oct 2024 16:20	JC/MD	Ok
20	PB164501ZHE#06	VX043628.D	30 Oct 2024 16:44	JC/MD	Ok
21	PB164501ZHE#07	VX043629.D	30 Oct 2024 17:07	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:36:25 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:36:37 PM				
SubDirectory	VX103024	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131182
Initial Calibration Stds	
CCC	VP131183,VP131184
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB164501ZHE#08	VX043630.D	30 Oct 2024 17:30	JC/MD	Ok
23	PB164501ZHE#09	VX043631.D	30 Oct 2024 17:53	JC/MD	Ok
24	PB164501ZHE#10	VX043632.D	30 Oct 2024 18:16	JC/MD	Ok
25	PB164501ZHE#11	VX043633.D	30 Oct 2024 18:39	JC/MD	Ok
26	PB164501ZHE#12	VX043634.D	30 Oct 2024 19:03	JC/MD	Ok
27	VSTDCCC050	VX043635.D	30 Oct 2024 19:25	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM		
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043555.D	28 Oct 2024 10:09		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX043556.D	28 Oct 2024 10:59	Method pass	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX043557.D	28 Oct 2024 11:22	8260D	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX043558.D	28 Oct 2024 11:45		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX043559.D	28 Oct 2024 12:08		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX043560.D	28 Oct 2024 12:31		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX043561.D	28 Oct 2024 12:54		JC/MD	Ok,M
8	VIBLK	VIBLK	VX043562.D	28 Oct 2024 14:04		JC/MD	Ok
9	VSTDICV050	ICVVX102824	VX043563.D	28 Oct 2024 14:27		JC/MD	Ok,M
10	VX1028MBL01	VX1028MBL01	VX043564.D	28 Oct 2024 15:02	Internal standard fail	JC/MD	Not Ok
11	VX1028WBL01	VX1028WBL01	VX043565.D	28 Oct 2024 15:52		JC/MD	Ok
12	VX1028WBS01	VX1028WBS01	VX043566.D	28 Oct 2024 16:28		JC/MD	Ok,M
13	VX1028WBSD01	VX1028WBSD01	VX043567.D	28 Oct 2024 16:51		JC/MD	Ok,M
14	PB164394TB	PB164394TB	VX043568.D	28 Oct 2024 17:14	pH#5.0 A	JC/MD	Ok
15	PB164394ZHE#01	PB164394ZHE#01	VX043569.D	28 Oct 2024 17:38	pH#5.0 A	JC/MD	Ok
16	PB164394ZHE#02	PB164394ZHE#02	VX043570.D	28 Oct 2024 18:01	pH#5.0 A	JC/MD	Ok
17	PB164394ZHE#03	PB164394ZHE#03	VX043571.D	28 Oct 2024 18:24	pH#5.0 A	JC/MD	Ok
18	PB164394ZHE#04	PB164394ZHE#04	VX043572.D	28 Oct 2024 18:47	pH#5.0 A	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM		
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB164394ZHE#05	PB164394ZHE#05	VX043573.D	28 Oct 2024 19:10	pH#5.0 A	JC/MD	Ok
20	PB164394ZHE#06	PB164394ZHE#06	VX043574.D	28 Oct 2024 19:33	pH#5.0 A	JC/MD	Ok
21	PB164394ZHE#07	PB164394ZHE#07	VX043575.D	28 Oct 2024 19:56	pH#5.0 A	JC/MD	Ok
22	PB164394ZHE#08	PB164394ZHE#08	VX043576.D	28 Oct 2024 20:19	pH#5.0 A	JC/MD	Ok
23	PB164394ZHE#09	PB164394ZHE#09	VX043577.D	28 Oct 2024 20:42	pH#5.0 A	JC/MD	Ok
24	PB164394ZHE#10	PB164394ZHE#10	VX043578.D	28 Oct 2024 21:05	pH#5.0 A	JC/MD	Ok
25	PB164394ZHE#11	PB164394ZHE#11	VX043579.D	28 Oct 2024 21:28	pH#5.0 A	JC/MD	Ok
26	PB164394ZHE#12	PB164394ZHE#12	VX043580.D	28 Oct 2024 21:52	pH#5.0 A	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX043581.D	28 Oct 2024 22:15	out of tune time	JC/MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:36:25 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:36:37 PM		
SubDirectory	VX103024	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131182
Initial Calibration Stds	
CCC	VP131183,VP131184
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043609.D	30 Oct 2024 08:59		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX043610.D	30 Oct 2024 09:26		JC/MD	Ok,M
3	VX1030MBL01	VX1030MBL01	VX043611.D	30 Oct 2024 09:59		JC/MD	Ok
4	VX1030WBL01	VX1030WBL01	VX043612.D	30 Oct 2024 10:22		JC/MD	Ok
5	VX1030WBS01	VX1030WBS01	VX043613.D	30 Oct 2024 10:56		JC/MD	Ok,M
6	VX1030WBSD01	VX1030WBSD01	VX043614.D	30 Oct 2024 11:19		JC/MD	Ok,M
7	VIBLK	VIBLK	VX043615.D	30 Oct 2024 11:42		JC/MD	Ok
8	P4600-05	BP-VPB-190-GW-478-4	VX043616.D	30 Oct 2024 12:06	pH# 1.0 B	JC/MD	Ok
9	P4560-01	GCNW6	VX043617.D	30 Oct 2024 12:29	Trace	JC/MD	Not Ok
10	P4562-03	Storage-Blank-WATER-	VX043618.D	30 Oct 2024 12:52	pH#1.0 A	JC/MD	Ok
11	P4562-04	Storage-Blank-SAMPLE	VX043619.D	30 Oct 2024 13:15	pH#1.0 A	JC/MD	Ok
12	P4615-04	TB-10292024	VX043620.D	30 Oct 2024 13:38	TB,pH#1.0 A	JC/MD	Ok
13	P4547-04	BP-F-21	VX043621.D	30 Oct 2024 14:01	pH#5.0 A	JC/MD	Ok
14	PB164501TB	PB164501TB	VX043622.D	30 Oct 2024 14:24	pH#5.0 A	JC/MD	Ok
15	PB164501ZHE#01	PB164501ZHE#01	VX043623.D	30 Oct 2024 14:47	pH#5.0 A	JC/MD	Ok
16	PB164501ZHE#02	PB164501ZHE#02	VX043624.D	30 Oct 2024 15:11	pH#5.0 A	JC/MD	Ok
17	PB164501ZHE#03	PB164501ZHE#03	VX043625.D	30 Oct 2024 15:34	pH#5.0 A	JC/MD	Ok
18	PB164501ZHE#04	PB164501ZHE#04	VX043626.D	30 Oct 2024 15:57	pH#5.0 A	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:36:25 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:36:37 PM		
SubDirectory	VX103024	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131182
Initial Calibration Stds	
CCC	VP131183,VP131184
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB164501ZHE#05	PB164501ZHE#05	VX043627.D	30 Oct 2024 16:20	pH#5.0 A	JC/MD	Ok
20	PB164501ZHE#06	PB164501ZHE#06	VX043628.D	30 Oct 2024 16:44	pH#5.0 A	JC/MD	Ok
21	PB164501ZHE#07	PB164501ZHE#07	VX043629.D	30 Oct 2024 17:07	pH#5.0 A	JC/MD	Ok
22	PB164501ZHE#08	PB164501ZHE#08	VX043630.D	30 Oct 2024 17:30	pH#5.0 A	JC/MD	Ok
23	PB164501ZHE#09	PB164501ZHE#09	VX043631.D	30 Oct 2024 17:53	pH#5.0 A	JC/MD	Ok
24	PB164501ZHE#10	PB164501ZHE#10	VX043632.D	30 Oct 2024 18:16	pH#5.0 A	JC/MD	Ok
25	PB164501ZHE#11	PB164501ZHE#11	VX043633.D	30 Oct 2024 18:39	pH#5.0 A	JC/MD	Ok
26	PB164501ZHE#12	PB164501ZHE#12	VX043634.D	30 Oct 2024 19:03	pH#5.0 A	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX043635.D	30 Oct 2024 19:25		JC/MD	Ok,M

M : Manual Integration

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

LAB CHRONICLE

OrderID:	P4615	**OrderDate:**	10/29/2024 2:04:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4615-04	**TB-10292024**	**Water**			**10/29/24**			**10/29/24**
			VOC-TCLVOA-10	8260-Low			10/30/24	

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Hit Summary Sheet
SW-846

SDG No.:	P4615	**Order ID:**	P4615
Client:	Portal Partners Tri-Venture	**Project ID:**	Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-131-1-SB01								
P4615-01	B-131-1-SB01	SOIL	Lead	80.3		0.17	0.66	mg/Kg
Client ID : B-131-2-SB01								
P4615-02	B-131-2-SB01	SOIL	Lead	158		0.15	0.58	mg/Kg
Client ID : B-131-3-SB01								
P4615-03	B-131-3-SB01	SOIL	Lead	120		0.14	0.57	mg/Kg

SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/29/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/29/24
Client Sample ID:	B-131-1-SB01	SDG No.:	P4615
Lab Sample ID:	P4615-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-92-1	Lead	80.3	N	1	0.17	0.66	mg/Kg	10/31/24 12:00	11/01/24 16:12	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/29/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/29/24
Client Sample ID:	B-131-2-SB01	SDG No.:	P4615
Lab Sample ID:	P4615-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	85

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-92-1	Lead	158	N	1	0.15	0.58	mg/Kg	10/31/24 12:00	11/04/24 19:23	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/29/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/29/24
Client Sample ID:	B-131-3-SB01	SDG No.:	P4615
Lab Sample ID:	P4615-03	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.
7439-92-1	Lead	120	N	1	0.14	0.57	mg/Kg	10/31/24 12:00	11/04/24 19:19	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Lead	12.0	+/-12.0	U	12.0	P	11/01/2024	15:40	LB133257

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Lead	12.0	+/-12.0	U	12.0	P	11/01/2024	16:07	LB133257
CCB02	Lead	12.0	+/-12.0	U	12.0	P	11/01/2024	17:00	LB133257
CCB03	Lead	12.0	+/-12.0	U	12.0	P	11/01/2024	18:01	LB133257
CCB04	Lead	12.0	+/-12.0	U	12.0	P	11/01/2024	18:59	LB133257
CCB05	Lead	12.0	+/-12.0	U	12.0	P	11/01/2024	19:22	LB133257

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	17:47	LB133296

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	18:16	LB133296
CCB02	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	19:07	LB133296
CCB03	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	19:58	LB133296
CCB04	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	21:11	LB133296
CCB05	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	21:51	LB133296

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	14:38	LB133344

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	15:05	LB133344
CCB02	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	15:58	LB133344
CCB03	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	16:49	LB133344
CCB04	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	18:04	LB133344
CCB05	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	18:37	LB133344
CCB06	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	19:12	LB133344
CCB07	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	20:02	LB133344
CCB08	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	21:02	LB133344
CCB09	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	21:55	LB133344
CCB10	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	22:56	LB133344
CCB11	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	23:47	LB133344
CCB12	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	00:43	LB133344
CCB13	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	01:01	LB133344

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164563BL		**SOLID**		**Batch Number:**	**PB164563**		**Prep Date:**	**10/31/2024**	
	Lead	0.59	<0.59	U	0.59	P	11/07/2024	23:55	LB133344

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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	Lead	969	1000	97	90 - 110	P	11/01/2024	15:31	LB133257

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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	Lead	10.8	12.0	90	80 - 120	P	11/01/2024	15:35	LB133257

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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	Lead	4830	5000	97	90 - 110	P	11/01/2024	16:03	LB133257
CCV02	Lead	5070	5000	102	90 - 110	P	11/01/2024	16:56	LB133257
CCV03	Lead	5090	5000	102	90 - 110	P	11/01/2024	17:57	LB133257
CCV04	Lead	4870	5000	97	90 - 110	P	11/01/2024	18:55	LB133257
CCV05	Lead	5340	5000	107	90 - 110	P	11/01/2024	19:18	LB133257

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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	Lead	979	1000	98	90 - 110	P	11/04/2024	17:28	LB133296

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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	Lead	11.8	12.0	98	80 - 120	P	11/04/2024	17:37	LB133296

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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	Lead	5120	5000	102	90 - 110	P	11/04/2024	18:11	LB133296
CCV02	Lead	5320	5000	106	90 - 110	P	11/04/2024	19:02	LB133296
CCV03	Lead	5320	5000	106	90 - 110	P	11/04/2024	19:46	LB133296
CCV04	Lead	5020	5000	100	90 - 110	P	11/04/2024	21:07	LB133296
CCV05	Lead	5020	5000	100	90 - 110	P	11/04/2024	21:47	LB133296

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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	Lead	1020	1000	102	90 - 110	P	11/07/2024	13:49	LB133344

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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	Lead	11.4	12.0	95	80 - 120	P	11/07/2024	14:23	LB133344

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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	Lead	4920	5000	98	90 - 110	P	11/07/2024	15:01	LB133344
CCV02	Lead	4800	5000	96	90 - 110	P	11/07/2024	15:53	LB133344
CCV03	Lead	4970	5000	99	90 - 110	P	11/07/2024	16:45	LB133344
CCV04	Lead	5010	5000	100	90 - 110	P	11/07/2024	17:56	LB133344
CCV05	Lead	4880	5000	98	90 - 110	P	11/07/2024	18:32	LB133344
CCV06	Lead	4930	5000	99	90 - 110	P	11/07/2024	19:08	LB133344
CCV07	Lead	4850	5000	97	90 - 110	P	11/07/2024	19:58	LB133344
CCV08	Lead	4840	5000	97	90 - 110	P	11/07/2024	20:58	LB133344
CCV09	Lead	4780	5000	96	90 - 110	P	11/07/2024	21:51	LB133344
CCV10	Lead	4710	5000	94	90 - 110	P	11/07/2024	22:52	LB133344
CCV11	Lead	4800	5000	96	90 - 110	P	11/07/2024	23:43	LB133344
CCV12	Lead	4820	5000	96	90 - 110	P	11/08/2024	00:39	LB133344
CCV13	Lead	4870	5000	97	90 - 110	P	11/08/2024	00:57	LB133344

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Lead	10.6	12.0	88	40 - 160	P	11/01/2024	15:44	LB133257
CRI01	Lead	11.7	12.0	98	40 - 160	P	11/04/2024	17:52	LB133296
CRI01	Lead	11.3	12.0	94	40 - 160	P	11/07/2024	14:42	LB133344

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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	Lead	7.70			-12	12	11/01/2024	15:48	LB133257
ICSAB01	Lead	58.4	49.0	119	37	61	11/01/2024	15:58	LB133257
ICSA01	Lead	1.99			-12	12	11/04/2024	18:03	LB133296
ICSAB01	Lead	50.7	49.0	104	37	61	11/04/2024	18:07	LB133296
ICSA01	Lead	8.91			-12	12	11/07/2024	14:47	LB133344
ICSAB01	Lead	56.6	49.0	116	37	61	11/07/2024	14:51	LB133344

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4615

contract: PORT06 **lab code:** CHEM **case no.:** P4615 **sas no.:** P4615

matrix: Solid **sample id:** P4645-01 **client id:** Z-02-WCMS

Percent Solids for Sample: 91.2 **Spiked ID:** P4645-01MS **Percent Solids for Spike Sample:** 91.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	mg/Kg	75 - 125	192		131		44.2	138	N	P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4615

contract: PORT06 **lab code:** CHEM **case no.:** P4615 **sas no.:** P4615

matrix: Solid **sample id:** P4645-01 **client id:** Z-02-WCMSD

Percent Solids for Sample: 91.2 **Spiked ID:** P4645-01MSD **Percent Solids for Spike Sample:** 91.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	mg/Kg	75 - 125	205		131		45.9	160	N	P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

Matrix: Solid **Level:** LOW **Client ID:** Z-02-WCA

Sample ID: P4645-01 **Spiked ID:** P4645-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	mg/Kg	75 - 125	199		131		44.9	150		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

Matrix: Solid **Sample ID:** P4645-01 **Client ID:** Z-02-WCDUP

Percent Solids for Sample: 91.2 **Duplicate ID** P4645-01DUP **Percent Solids for Spike Sample:** 91.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Lead	mg/Kg	20	131		138		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

Matrix: Solid **Sample ID:** P4645-01MS **Client ID:** Z-02-WCMSD

Percent Solids for Sample: 91.2 **Duplicate ID** P4645-01MSD **Percent Solids for Spike Sample:** 91.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Lead	mg/Kg	20	192		205		7		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164563BS							
Lead	mg/Kg	49.0	45.3		92	80 - 120	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

Z-02-WCL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133296 **Lab Sample ID :** P4645-01L **SDG No.:** P4615

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
Lead	131		137		5		P

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4615 **Sas no.:** P4615 **Sdg no.:** P4615

Instrument id number: **Method:** **Run number:** LB133257

Start date: 11/01/2024 **End date:** 11/01/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1506	Pb
S1	S1	1	1510	Pb
S2	S2	1	1514	Pb
S3	S3	1	1518	Pb
S4	S4	1	1523	Pb
S5	S5	1	1527	Pb
ICV01	ICV01	1	1531	Pb
LLICV01	LLICV01	1	1535	Pb
ICB01	ICB01	1	1540	Pb
CRI01	CRI01	1	1544	Pb
ICSA01	ICSA01	1	1548	Pb
ICSAB01	ICSAB01	1	1558	Pb
CCV01	CCV01	1	1603	Pb
CCB01	CCB01	1	1607	Pb
P4615-01	B-131-1-SB01	1	1612	Pb
CCV02	CCV02	1	1656	Pb
CCB02	CCB02	1	1700	Pb
CCV03	CCV03	1	1757	Pb
CCB03	CCB03	1	1801	Pb
CCV04	CCV04	1	1855	Pb
CCB04	CCB04	1	1859	Pb
CCV05	CCV05	1	1918	Pb
CCB05	CCB05	1	1922	Pb

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4615 **Sas no.:** P4615 **Sdg no.:** P4615

Instrument id number: **Method:** **Run number:** LB133296

Start date: 11/04/2024 **End date:** 11/04/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1657	Pb
S1	S1	1	1702	Pb
S2	S2	1	1706	Pb
S3	S3	1	1710	Pb
S4	S4	1	1714	Pb
S5	S5	1	1718	Pb
ICV01	ICV01	1	1728	Pb
LLICV01	LLICV01	1	1737	Pb
ICB01	ICB01	1	1747	Pb
CRI01	CRI01	1	1752	Pb
ICSA01	ICSA01	1	1803	Pb
ICSAB01	ICSAB01	1	1807	Pb
CCV01	CCV01	1	1811	Pb
CCB01	CCB01	1	1816	Pb
P4645-01DUP	Z-02-WCDUP	1	1842	Pb
P4645-01L	Z-02-WCL	5	1846	Pb
P4645-01MS	Z-02-WCMS	1	1850	Pb
P4645-01MSD	Z-02-WCMSD	1	1854	Pb
P4645-01A	Z-02-WCA	1	1858	Pb
CCV02	CCV02	1	1902	Pb
CCB02	CCB02	1	1907	Pb
P4615-03	B-131-3-SB01	1	1919	Pb
P4615-02	B-131-2-SB01	1	1923	Pb
CCV03	CCV03	1	1946	Pb
CCB03	CCB03	1	1958	Pb
CCV04	CCV04	1	2107	Pb
CCB04	CCB04	1	2111	Pb
CCV05	CCV05	1	2147	Pb
CCB05	CCB05	1	2151	Pb

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4615 **Sas no.:** P4615 **Sdg no.:** P4615

Instrument id number: **Method:** **Run number:** LB133344

Start date: 11/07/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1323	Pb
S1	S1	1	1328	Pb
S2	S2	1	1332	Pb
S3	S3	1	1336	Pb
S4	S4	1	1340	Pb
S5	S5	1	1345	Pb
ICV01	ICV01	1	1349	Pb
LLICV01	LLICV01	1	1423	Pb
ICB01	ICB01	1	1438	Pb
CRI01	CRI01	1	1442	Pb
ICSA01	ICSA01	1	1447	Pb
ICSAB01	ICSAB01	1	1451	Pb
CCV01	CCV01	1	1501	Pb
CCB01	CCB01	1	1505	Pb
CCV02	CCV02	1	1553	Pb
CCB02	CCB02	1	1558	Pb
CCV03	CCV03	1	1645	Pb
CCB03	CCB03	1	1649	Pb
CCV04	CCV04	1	1756	Pb
CCB04	CCB04	1	1804	Pb
CCV05	CCV05	1	1832	Pb
CCB05	CCB05	1	1837	Pb
CCV06	CCV06	1	1908	Pb
CCB06	CCB06	1	1912	Pb
CCV07	CCV07	1	1958	Pb
CCB07	CCB07	1	2002	Pb
CCV08	CCV08	1	2058	Pb
CCB08	CCB08	1	2102	Pb
CCV09	CCV09	1	2151	Pb
CCB09	CCB09	1	2155	Pb
CCV10	CCV10	1	2252	Pb
CCB10	CCB10	1	2256	Pb
CCV11	CCV11	1	2343	Pb
CCB11	CCB11	1	2347	Pb
PB164563BL	PB164563BL	1	2355	Pb
PB164563BS	PB164563BS	1	0005	Pb
CCV12	CCV12	1	0039	Pb
CCB12	CCB12	1	0043	Pb
CCV13	CCV13	1	0057	Pb
CCB13	CCB13	1	0101	Pb

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4615 **SAS No.:** P4615

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
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000

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LAB CHRONICLE

OrderID:	P4615	**OrderDate:**	10/29/2024 2:04:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4615-01	**B-131-1-SB01**	**SOIL**			**10/29/24**			**10/29/24**
			Metals Group3	6010D		10/31/24	11/01/24	
P4615-02	**B-131-2-SB01**	**SOIL**			**10/29/24**			**10/29/24**
			Metals Group3	6010D		10/31/24	11/04/24	
P4615-03	**B-131-3-SB01**	**SOIL**			**10/29/24**			**10/29/24**
			Metals Group3	6010D		10/31/24	11/04/24	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4615

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4615 **SAS No.:** P4615

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164563**						
P4615-01	B-131-1-SB01	SAM	SOLID	10/31/2024	2.08	100.0	86.90
P4615-02	B-131-2-SB01	SAM	SOLID	10/31/2024	2.42	100.0	85.00
P4615-03	B-131-3-SB01	SAM	SOLID	10/31/2024	2.46	100.0	86.00
P4645-01DUP	Z-02-WCDUP	DUP	SOLID	10/31/2024	2.40	100.0	91.20
P4645-01MS	Z-02-WCMS	MS	SOLID	10/31/2024	2.48	100.0	91.20
P4645-01MSD	Z-02-WCMSD	MSD	SOLID	10/31/2024	2.39	100.0	91.20
PB164563BL	PB164563BL	MB	SOLID	10/31/2024	2.04	100.0	100.00
PB164563BS	PB164563BS	LCS	SOLID	10/31/2024	2.04	100.0	100.00

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133257

Review By	mohan	Review On	11/6/2024 4:20:36 AM
Supervise By	kareem	Supervise On	11/6/2024 11:50:09 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/01/24 15:06		Kareem	OK
2	S1	S1	CAL2	11/01/24 15:10		Kareem	OK
3	S2	S2	CAL3	11/01/24 15:14		Kareem	OK
4	S3	S3	CAL4	11/01/24 15:18		Kareem	OK
5	S4	S4	CAL5	11/01/24 15:23		Kareem	OK
6	S5	S5	CAL6	11/01/24 15:27		Kareem	OK
7	ICV01	ICV01	ICV	11/01/24 15:31		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/01/24 15:35		Kareem	OK
9	ICB01	ICB01	ICB	11/01/24 15:40		Kareem	OK
10	CRI01	CRI01	CRDL	11/01/24 15:44		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/01/24 15:48		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/01/24 15:58		Kareem	OK
13	CCV01	CCV01	CCV	11/01/24 16:03		Kareem	OK
14	CCB01	CCB01	CCB	11/01/24 16:07		Kareem	OK
15	P4615-01	B-131-1-SB01	SAM	11/01/24 16:12		Kareem	OK
16	P4611-03	TP-1	SAM	11/01/24 16:17		Kareem	OK
17	P4611-06	TP-2	SAM	11/01/24 16:21		Kareem	OK
18	P4611-09	TP-3	SAM	11/01/24 16:26		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133257

Review By	mohan	Review On	11/6/2024 4:20:36 AM
Supervise By	kareem	Supervise On	11/6/2024 11:50:09 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

19	P4611-12	TP-4	SAM	11/01/24 16:30		Kareem	OK
20	P4611-15	TP-5	SAM	11/01/24 16:35		Kareem	OK
21	P4611-18	TP-6	SAM	11/01/24 16:39		Kareem	OK
22	P4639-01	EO-01-103024	SAM	11/01/24 16:43		Kareem	OK
23	P4639-03	EO-02-103024	SAM	11/01/24 16:48		Kareem	OK
24	P4612-04	MOO-24-00335	SAM	11/01/24 16:52		Kareem	OK
25	CCV02	CCV02	CCV	11/01/24 16:56		Kareem	OK
26	CCB02	CCB02	CCB	11/01/24 17:00		Kareem	OK
27	P4613-02	ARS20-0001	SAM	11/01/24 17:07		Kareem	OK
28	P4616-04	BP-F10	SAM	11/01/24 17:11		Kareem	OK
29	P4616-08	BP-F9-MOVED	SAM	11/01/24 17:16		Kareem	OK
30	P4617-04	CONCRETE-PILE	SAM	11/01/24 17:20	MS Fail For Many Parameter	Kareem	Not Ok
31	P4460-06DL	WB-303-SWDL	SAM	11/01/24 17:25	Not Use	Kareem	Not Ok
32	P4460-06DUPDL	WB-303-SWDUPDL	DUP	11/01/24 17:29	Not Use	Kareem	Not Ok
33	P4460-06LDL	WB-303-SWLDL	SD	11/01/24 17:34	Not Use	Kareem	Not Ok
34	P4460-06MSDL	WB-303-SWMSDL	MS	11/01/24 17:38	Not Use	Kareem	Not Ok
35	P4460-06MSDDL	WB-303-SWMSDDL	MSD	11/01/24 17:43	Not Use	Kareem	Not Ok
36	P4460-06ADL	WB-303-SWADL	PS	11/01/24 17:52	Not Use	Kareem	Not Ok
37	CCV03	CCV03	CCV	11/01/24 17:57		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133257

Review By	mohan	Review On	11/6/2024 4:20:36 AM
Supervise By	kareem	Supervise On	11/6/2024 11:50:09 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

38	CCB03	CCB03	CCB	11/01/24 18:01		Kareem	OK
39	P4460-06DL2	WB-303-SWDL2	SAM	11/01/24 18:05	25X for Na	Kareem	Confirms
40	P4460-06DUPDL2	WB-303-SWDUPDL2	DUP	11/01/24 18:10	25X for Na	Kareem	Confirms
41	P4460-06LDL2	WB-303-SWLDL2	SD	11/01/24 18:14	25X for Na	Kareem	Confirms
42	P4460-06MSDL2	WB-303-SWMSDL2	MS	11/01/24 18:18	25X for Na	Kareem	Confirms
43	P4460-06MSDDL2	WB-303-SWMSDDL2	MSD	11/01/24 18:23	25X for Na	Kareem	Confirms
44	P4460-06ADL2	WB-303-SWADL2	PS	11/01/24 18:27	25X for Na	Kareem	Confirms
45	P4617-04DUP	CONCRETE-PILEDUI	DUP	11/01/24 18:32	MS Fail For Many Parameter	Kareem	Not Ok
46	P4617-04L	CONCRETE-PILEL	SD	11/01/24 18:36	MS Fail For Many Parameter	Kareem	Not Ok
47	P4617-04MS	CONCRETE-PILEMS	MS	11/01/24 18:40	MS Fail For Many Parameter	Kareem	Not Ok
48	P4617-04MSD	CONCRETE-PILEMS	MSD	11/01/24 18:45	MS Fail For Many Parameter	Kareem	Not Ok
49	CCV04	CCV04	CCV	11/01/24 18:55		Kareem	OK
50	CCB04	CCB04	CCB	11/01/24 18:59		Kareem	OK
51	P4617-04A	CONCRETE-PILEA	PS	11/01/24 19:05	MS Fail For Many Parameter	Kareem	Not Ok
52	LR1	LR1	HIGH STD	11/01/24 19:09		Kareem	OK
53	LR2	LR2	HIGH STD	11/01/24 19:14		Kareem	OK
54	CCV05	CCV05	CCV	11/01/24 19:18		Kareem	OK
55	CCB05	CCB05	CCB	11/01/24 19:22		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	kareem	Supervise On	11/7/2024 12:42:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/04/24 16:57		Kareem	OK
2	S1	S1	CAL2	11/04/24 17:02		Kareem	OK
3	S2	S2	CAL3	11/04/24 17:06		Kareem	OK
4	S3	S3	CAL4	11/04/24 17:10		Kareem	OK
5	S4	S4	CAL5	11/04/24 17:14		Kareem	OK
6	S5	S5	CAL6	11/04/24 17:18		Kareem	OK
7	ICV01	ICV01	ICV	11/04/24 17:28		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/04/24 17:37		Kareem	OK
9	ICB01	ICB01	ICB	11/04/24 17:47		Kareem	OK
10	CRI01	CRI01	CRDL	11/04/24 17:52		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/04/24 18:03		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/04/24 18:07		Kareem	OK
13	CCV01	CCV01	CCV	11/04/24 18:11		Kareem	OK
14	CCB01	CCB01	CCB	11/04/24 18:16		Kareem	OK
15	P4640-01	MH-3	SAM	11/04/24 18:20		Kareem	OK
16	P4643-01	BP-F9-ADDITIONAL	SAM	11/04/24 18:25		Kareem	OK
17	P4643-05	BP-F8	SAM	11/04/24 18:29		Kareem	OK
18	P4643-09	TP-9	SAM	11/04/24 18:33		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	kareem	Supervise On	11/7/2024 12:42:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

19	P4645-01	Z-02-WC	SAM	11/04/24 18:37		Kareem	OK
20	P4645-01DUP	Z-02-WCDUP	DUP	11/04/24 18:42		Kareem	OK
21	P4645-01L	Z-02-WCL	SD	11/04/24 18:46		Kareem	OK
22	P4645-01MS	Z-02-WCMS	MS	11/04/24 18:50	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
23	P4645-01MSD	Z-02-WCMSD	MSD	11/04/24 18:54	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
24	P4645-01A	Z-02-WCA	PS	11/04/24 18:58	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
25	CCV02	CCV02	CCV	11/04/24 19:02		Kareem	OK
26	CCB02	CCB02	CCB	11/04/24 19:07		Kareem	OK
27	PB164563BL	PB164563BL	MB	11/04/24 19:11	NOT USE	Kareem	Not Ok
28	PB164563BS	PB164563BS	LCS	11/04/24 19:15	NOT USE	Kareem	Not Ok
29	P4615-03	B-131-3-SB01	SAM	11/04/24 19:19		Kareem	OK
30	P4615-02	B-131-2-SB01	SAM	11/04/24 19:23		Kareem	OK
31	P4397-04	WB-301-SW	SAM	11/04/24 19:28	Na high	Kareem	Dilution
32	P4397-04DUP	WB-301-SWDUP	DUP	11/04/24 19:32	Na high	Kareem	Dilution
33	P4397-04L	WB-301-SWL	SD	11/04/24 19:37	Na high	Kareem	Dilution
34	P4397-04MS	WB-301-SWMS	MS	11/04/24 19:41	Na high	Kareem	Dilution
35	CCV03	CCV03	CCV	11/04/24 19:46		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	kareem	Supervise On	11/7/2024 12:42:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

36	CCB03	CCB03	CCB	11/04/24 19:58		Kareem	OK
37	P4397-04MSD	WB-301-SWMSD	MSD	11/04/24 20:04	Na high	Kareem	Dilution
38	P4397-04A	WB-301-SWA	PS	11/04/24 20:08	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
39	P4663-02	TENNANT-PAD-2-3-S	SAM	11/04/24 20:12		Kareem	OK
40	P4663-04	RES-BUILDING-PAD-	SAM	11/04/24 20:17		Kareem	OK
41	P4663-06	RES-BUILDING-PAD-	SAM	11/04/24 20:21		Kareem	OK
42	P4663-08	RES-BUILDING-PAD-	SAM	11/04/24 20:25		Kareem	OK
43	LR1	LR1	HIGH STD	11/04/24 20:33		Kareem	OK
44	LR2	LR2	HIGH STD	11/04/24 20:38		Kareem	OK
45	PB164522TB	PB164522TB	MB	11/04/24 20:44		Kareem	OK
46	PB164564BL	PB164564BL	MB	11/04/24 20:48		Kareem	OK
47	CCV04	CCV04	CCV	11/04/24 21:07		Kareem	OK
48	CCB04	CCB04	CCB	11/04/24 21:11		Kareem	OK
49	PB164564BS	PB164564BS	LCS	11/04/24 21:16	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
50	P4397-04DL	WB-301-SWDL	SAM	11/04/24 21:21	10X for Na	Kareem	Confirms
51	P4397-04DUPDL	WB-301-SWDUPDL	DUP	11/04/24 21:25	10X for Na	Kareem	Confirms
52	P4397-04LDL	WB-301-SWLDL	SD	11/04/24 21:29	10X for Na	Kareem	Confirms
53	P4397-04MSDL	WB-301-SWMSDL	MS	11/04/24 21:34	10X for Na	Kareem	Confirms

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	kareem	Supervise On	11/7/2024 12:42:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

54	P4397-04MSDDL	WB-301-SWMSDDL	MSD	11/04/24 21:38	10X for Na	Kareem	Confirms
55	P4397-04ADL	WB-301-SWADL	PS	11/04/24 21:42	Not used	Kareem	Not Ok
56	CCV05	CCV05	CCV	11/04/24 21:47		Kareem	OK
57	CCB05	CCB05	CCB	11/04/24 21:51		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/07/24 13:23		Kareem	OK
2	S1	S1	CAL2	11/07/24 13:28		Kareem	OK
3	S2	S2	CAL3	11/07/24 13:32		Kareem	OK
4	S3	S3	CAL4	11/07/24 13:36		Kareem	OK
5	S4	S4	CAL5	11/07/24 13:40		Kareem	OK
6	S5	S5	CAL6	11/07/24 13:45		Kareem	OK
7	ICV01	ICV01	ICV	11/07/24 13:49		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/07/24 14:23		Kareem	OK
9	ICB01	ICB01	ICB	11/07/24 14:38		Kareem	OK
10	CRI01	CRI01	CRDL	11/07/24 14:42		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/07/24 14:47		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/07/24 14:51		Kareem	OK
13	CCV01	CCV01	CCV	11/07/24 15:01		Kareem	OK
14	CCB01	CCB01	CCB	11/07/24 15:05		Kareem	OK
15	P4645-04	Z-02-WC	SAM	11/07/24 15:09		Kareem	OK
16	P4659-04	MH-2	SAM	11/07/24 15:14		Kareem	OK
17	P4660-03	WC-TA2-01-C	SAM	11/07/24 15:18		Kareem	OK
18	P4660-07	WC-WOOD-01-C	SAM	11/07/24 15:22		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

19	P4660-11	WC-CONCRETE-01-(	SAM	11/07/24 15:27		Kareem	OK
20	P4667-04	BP-F-6	SAM	11/07/24 15:31		Kareem	OK
21	P4667-08	BP-F-5	SAM	11/07/24 15:36		Kareem	OK
22	P4667-12	BP-F-10	SAM	11/07/24 15:40		Kareem	OK
23	P4667-16	BP-F-7	SAM	11/07/24 15:45		Kareem	OK
24	P4679-04	MH-1	SAM	11/07/24 15:49		Kareem	OK
25	CCV02	CCV02	CCV	11/07/24 15:53		Kareem	OK
26	CCB02	CCB02	CCB	11/07/24 15:58		Kareem	OK
27	P4680-04	BP-F26	SAM	11/07/24 16:02		Kareem	OK
28	P4680-08	BP-F25	SAM	11/07/24 16:06		Kareem	OK
29	P4684-01	MECHANIC-ST-SWEI	SAM	11/07/24 16:11		Kareem	OK
30	P4684-01DUP	MECHANIC-ST-SWEI	DUP	11/07/24 16:15		Kareem	OK
31	P4684-01L	MECHANIC-ST-SWEI	SD	11/07/24 16:20		Kareem	OK
32	P4684-01MS	MECHANIC-ST-SWEI	MS	11/07/24 16:24		Kareem	OK
33	P4684-01MSD	MECHANIC-ST-SWEI	MSD	11/07/24 16:28		Kareem	OK
34	P4684-01A	MECHANIC-ST-SWEI	PS	11/07/24 16:32		Kareem	OK
35	PB164560TB	PB164560TB	MB	11/07/24 16:36		Kareem	OK
36	PB164665BL	PB164665BL	MB	11/07/24 16:41		Kareem	OK
37	CCV03	CCV03	CCV	11/07/24 16:45		Kareem	OK
38	CCB03	CCB03	CCB	11/07/24 16:49		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

39	PB164665BS	PB164665BS	LCS	11/07/24 16:54		Kareem	OK
40	P4693-04	BP-G5-WC	SAM	11/07/24 16:58		Kareem	OK
41	P4693-08	BP-G4-WC	SAM	11/07/24 17:02		Kareem	OK
42	P4694-04	Z-03A	SAM	11/07/24 17:06		Kareem	OK
43	P4694-08	Z-04	SAM	11/07/24 17:11		Kareem	OK
44	P4695-04	Z-01	SAM	11/07/24 17:15		Kareem	OK
45	P4700-04	MH-8	SAM	11/07/24 17:20		Kareem	OK
46	P4701-01	BP-F3	SAM	11/07/24 17:24		Kareem	OK
47	P4701-08	BP-F4	SAM	11/07/24 17:29		Kareem	OK
48	P4711-05	CF-613-COMP-16	SAM	11/07/24 17:33		Kareem	OK
49	CCV04	CCV04	CCV	11/07/24 17:56		Kareem	OK
50	CCB04	CCB04	CCB	11/07/24 18:04		Kareem	OK
51	P4711-10	CF-613-COMP-17	SAM	11/07/24 18:08		Kareem	OK
52	P4702-01	TOTE-1	SAM	11/07/24 18:13		Kareem	OK
53	P4662-06DL2	102524-DDL2	SAM	11/07/24 18:17	NOT USE	Kareem	Not Ok
54	P4662-06DL	102524-DDL	SAM	11/07/24 18:22	NOT USE	Kareem	Not Ok
55	P4662-06	102524-D	SAM	11/07/24 18:28		Kareem	OK
56	CCV05	CCV05	CCV	11/07/24 18:32		Kareem	OK
57	CCB05	CCB05	CCB	11/07/24 18:37		Kareem	OK
58	P4702-01DUP	TOTE-1DUP	DUP	11/07/24 18:43		Kareem	OK

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Instrument ID: P4

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Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

59	P4702-01L	TOTE-1L	SD	11/07/24 18:47		Kareem	OK
60	P4706-01	TR-04-110424	SAM	11/07/24 18:51		Kareem	OK
61	P4708-01	OR-02-110424	SAM	11/07/24 18:56		Kareem	OK
62	P4711-01	CF-613-COMP-16	SAM	11/07/24 19:00		Kareem	OK
63	P4711-06	CF-613-COMP-17	SAM	11/07/24 19:04		Kareem	OK
64	CCV06	CCV06	CCV	11/07/24 19:08		Kareem	OK
65	CCB06	CCB06	CCB	11/07/24 19:12		Kareem	OK
66	P4702-01MS	TOTE-1MS	MS	11/07/24 19:16		Kareem	OK
67	P4702-01MSD	TOTE-1MSD	MSD	11/07/24 19:20		Kareem	OK
68	P4702-01A	TOTE-1A	PS	11/07/24 19:24		Kareem	OK
69	PB164662TB	PB164662TB	MB	11/07/24 19:28		Kareem	OK
70	PB164685TB	PB164685TB	MB	11/07/24 19:32		Kareem	OK
71	PB164712BL	PB164712BL	MB	11/07/24 19:37		Kareem	OK
72	PB164712BS	PB164712BS	LCS	11/07/24 19:41		Kareem	OK
73	P4720-01	JC-701-COMP-01	SAM	11/07/24 19:45		Kareem	OK
74	P4720-01DUP	JC-701-COMP-01DUP	DUP	11/07/24 19:50		Kareem	OK
75	P4720-01L	JC-701-COMP-01L	SD	11/07/24 19:54		Kareem	OK
76	CCV07	CCV07	CCV	11/07/24 19:58		Kareem	OK
77	CCB07	CCB07	CCB	11/07/24 20:02		Kareem	OK
78	P4617-04	CONCRETE-PILE	SAM	11/07/24 20:08		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

79	P4617-04DUP	CONCRETE-PILEDUI	DUP	11/07/24 20:12		Kareem	OK
80	P4617-04L	CONCRETE-PILEL	SD	11/07/24 20:17		Kareem	OK
81	P4617-04MS	CONCRETE-PILEMS	MS	11/07/24 20:21		Kareem	OK
82	P4617-04MSD	CONCRETE-PILEMS	MSD	11/07/24 20:25		Kareem	OK
83	P4549-04	TT-069-IDWGW-2024	SAM	11/07/24 20:34		Kareem	OK
84	P4617-04A	CONCRETE-PILEA	PS	11/07/24 20:41		Kareem	OK
85	P4549-04DUP	TT-069-IDWGW-2024	DUP	11/07/24 20:45		Kareem	OK
86	P4549-04L	TT-069-IDWGW-2024	SD	11/07/24 20:49		Kareem	OK
87	P4549-04MS	TT-069-IDWGW-2024	MS	11/07/24 20:54		Kareem	OK
88	CCV08	CCV08	CCV	11/07/24 20:58		Kareem	OK
89	CCB08	CCB08	CCB	11/07/24 21:02		Kareem	OK
90	P4549-04MSD	TT-069-IDWGW-2024	MSD	11/07/24 21:08		Kareem	OK
91	P4549-04A	TT-069-IDWGW-2024	PS	11/07/24 21:12		Kareem	OK
92	P4720-01MS	JC-701-COMP-01MS	MS	11/07/24 21:16		Kareem	OK
93	P4720-01MSD	JC-701-COMP-01MSI	MSD	11/07/24 21:20		Kareem	OK
94	P4720-01A	JC-701-COMP-01A	PS	11/07/24 21:24		Kareem	OK
95	P4722-03	WC-1(0-6)	SAM	11/07/24 21:29	Fe high	Kareem	Dilution
96	P4722-08	WC-2(0-6)	SAM	11/07/24 21:33		Kareem	OK
97	P4722-13	WC-3(0-6)	SAM	11/07/24 21:38		Kareem	OK
98	PB164723BL	PB164723BL	MB	11/07/24 21:42		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

99	PB164723BS	PB164723BS	LCS	11/07/24 21:47		Kareem	OK
100	CCV09	CCV09	CCV	11/07/24 21:51		Kareem	OK
101	CCB09	CCB09	CCB	11/07/24 21:55		Kareem	OK
102	P4693-01	BP-G5-WC	SAM	11/07/24 22:09		Kareem	OK
103	P4693-05	BP-G4-WC	SAM	11/07/24 22:13		Kareem	OK
104	P4694-01	Z-03A	SAM	11/07/24 22:17		Kareem	OK
105	P4694-05	Z-04	SAM	11/07/24 22:22		Kareem	OK
106	P4695-01	Z-01	SAM	11/07/24 22:26		Kareem	OK
107	P4697-01	TP-1	SAM	11/07/24 22:30		Kareem	OK
108	P4699-01	MIXED-DEMO	SAM	11/07/24 22:34	Confirm Wt	Kareem	OK
109	P4699-01DUP	MIXED-DEMODUP	DUP	11/07/24 22:39	Confirm	Kareem	OK
110	P4699-01L	MIXED-DEMOL	SD	11/07/24 22:43		Kareem	OK
111	P4699-01MS	MIXED-DEMOMS	MS	11/07/24 22:47		Kareem	OK
112	CCV10	CCV10	CCV	11/07/24 22:52		Kareem	OK
113	CCB10	CCB10	CCB	11/07/24 22:56		Kareem	OK
114	P4699-01MSD	MIXED-DEMOMSD	MSD	11/07/24 23:00		Kareem	OK
115	P4699-01A	MIXED-DEMOA	PS	11/07/24 23:04		Kareem	OK
116	P4700-01	MH-8	SAM	11/07/24 23:09		Kareem	OK
117	P4701-01RE	BP-F3RE	SAM	11/07/24 23:13	NOT USE	Kareem	Not Ok
118	P4701-05	BP-F4	SAM	11/07/24 23:17		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

119	P4707-01	HD-02-110424	SAM	11/07/24 23:22		Kareem	OK
120	P4718-01	WB-307-SB01	SAM	11/07/24 23:26		Kareem	OK
121	P4718-02	WB-307-SB02	SAM	11/07/24 23:30		Kareem	OK
122	P4719-01	BAYAVE-STOCKPILE	SAM	11/07/24 23:34		Kareem	OK
123	PB164708BL	PB164708BL	MB	11/07/24 23:38		Kareem	OK
124	CCV11	CCV11	CCV	11/07/24 23:43		Kareem	OK
125	CCB11	CCB11	CCB	11/07/24 23:47		Kareem	OK
126	PB164708BS	PB164708BS	LCS	11/07/24 23:51		Kareem	OK
127	PB164563BL	PB164563BL	MB	11/07/24 23:55		Kareem	OK
128	PB164563BS	PB164563BS	LCS	11/08/24 00:05		Kareem	OK
129	PB164634BL	PB164634BL	MB	11/08/24 00:08		Kareem	OK
130	PB164634BS	PB164634BS	LCS	11/08/24 00:13		Kareem	OK
131	PB164647BL	PB164647BL	MB	11/08/24 00:17		Kareem	OK
132	PB164647BS	PB164647BS	LCS	11/08/24 00:21		Kareem	OK
133	P4722-03DL	WC-1(0-6)DL	SAM	11/08/24 00:26	5x for Fe	Kareem	Confirms
134	LR1	LR1	HIGH STD	11/08/24 00:30		Kareem	OK
135	LR2	LR2	HIGH STD	11/08/24 00:35		Kareem	OK
136	CCV12	CCV12	CCV	11/08/24 00:39		Kareem	OK
137	CCB12	CCB12	CCB	11/08/24 00:43		Kareem	OK
138	P4701-01DL	BP-F3DL	SAM	11/08/24 00:48	NOT USE	Kareem	Not Ok

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

139	CCV13	CCV13	CCV	11/08/24 00:57		Kareem	OK
140	CCB13	CCB13	CCB	11/08/24 01:01		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164563

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: 10/31/2024 **Time :** 12:00 **Temp :** 95 °C

End Digest Date: 10/31/2024 **Time :** 14:10 **Temp :** 95 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: JGP

Supervisor Signature: SJ

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	M6113
30% H2O2	3.00	M5634
CONC: HCL	10.00	M6095
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 # 34 Temp: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/31/24 15:00	JGP / Met dig	SJ / Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164563

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4615-01	B-131-1-SB01	N/A	2.08	100	Brown	Yellow	Medium	N/A	N/A	1
P4615-02	B-131-2-SB01	N/A	2.42	100	Brown	Yellow	Medium	N/A	N/A	2
P4615-03	B-131-3-SB01	N/A	2.46	100	Brown	Yellow	Medium	N/A	N/A	3
P4639-01	EO-01-103024	N/A	2.11	100	Brown	Yellow	Medium	N/A	N/A	4
P4639-03	EO-02-103024	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	5
P4640-01	MH-3	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	6
P4643-01	BP-F9-ADDITIONAL	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	7
P4643-05	BP-F8	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	8
P4643-09	TP-9	N/A	2.22	100	Brown	Yellow	Medium	N/A	N/A	9
P4645-01	Z-02-WC	N/A	2.44	100	Brown	Yellow	Medium	N/A	N/A	10
P4645-01DUP	Z-02-WCDUP	N/A	2.40	100	Brown	Yellow	Medium	N/A	N/A	11
P4645-01MS	Z-02-WCMS	N/A	2.48	100	Brown	Yellow	Medium	N/A	M6000,M6009	12
P4645-01MSD	Z-02-WCMSD	N/A	2.39	100	Brown	Yellow	Medium	N/A	M6000,M6009	13
PB164563BL	PBS563	N/A	2.04	100	Colorless	Colorless	Fine	N/A	N/A	14
PB164563BS	LCS563	N/A	2.04	100	Colorless	Colorless	Fine	N/A	M6000,M6009	15

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. P4615
QUOTE NO.
COC Number 2040874

7
7.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannett Fleming
ADDRESS: 1010 ~~Adams~~ Adams Avenue
CITY Audubon STATE: PA ZIP: 19403
ATTENTION: Joe Krupansky
PHONE: 610-391-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak Rep. of Sawtooth Bridge
PROJECT NO.: [illegible] LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krupansky
e-mail: QAQC@bonnyco.com
PHONE: 610-391-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha PHONE: 908-789-3192

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT BEN EDD

ANALYSIS

1 Lead-

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.	B-131-1-SB01	S	X		10/29	8:10	1	X									
2.	B-131-2-SB01	S	X		10/29	9:05	1	X									
3.	B-131-3-SB01	S	X		10/29	8:00	1	X									
4.	TB-10292024	Water			10/29	LAB	2										
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Vrunda Pujara	10/29/24 1340	1. 10-29-24 1340
2.		2.
3.	10-29-24 1425	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.2 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4615 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 10/29/2024 2:04:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 10/29/2024 ~~12:00:00~~ 14:25 AM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4615-04	TB-10292024	Water	10/29/2024	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By : [signature]
Date / Time : 10-29-24 1615

Received By : [signature]
Date / Time : 10/29/24 16:15
Storage Area : VOA Refridgerator Room