



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

Hit Summary Sheet
SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID:

0

Total Voc :

Total Concentration:

A
B
C
D
E
F
G
H
I
J
K



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	11/04/24	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	11/05/24	
Client Sample ID:	WB-307-SB02			SDG No.:	P4718	
Lab Sample ID:	P4718-03			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043733.D	1		11/07/24 13:56	VX110724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	36.8		70 (74) - 130 (125)	74%	SPK: 50
1868-53-7	Dibromofluoromethane	43.7		70 (75) - 130 (124)	87%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		70 (77) - 130 (121)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75000	5.55			
540-36-3	1,4-Difluorobenzene	135000	6.757			
3114-55-4	Chlorobenzene-d5	118000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	50300	12.024			

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

Surrogate Summary

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4718-03	WB-307-SB02	1,2-Dichloroethane-d4	50	36.8	74	70 (74)	130 (125)
		Dibromofluoromethane	50	43.7	87	70 (75)	130 (124)
		Toluene-d8	50	49.7	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	45.0	90	70 (77)	130 (121)

Surrogate Summary

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VX1107WBL01	VX1107WBL01	1,2-Dichloroethane-d4	50	38.1	76	70 (74)	130 (125)
		Dibromofluoromethane	50	45.9	92	70 (75)	130 (124)
		Toluene-d8	50	48.8	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.7	93	70 (77)	130 (121)
VX1107WBS01	VX1107WBS01	1,2-Dichloroethane-d4	50	42.8	86	70 (74)	130 (125)
		Dibromofluoromethane	50	47.6	95	70 (75)	130 (124)
		Toluene-d8	50	48.7	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.8	98	70 (77)	130 (121)
VX1107WBSD0	VX1107WBSD01	1,2-Dichloroethane-d4	50	43.0	86	70 (74)	130 (125)
		Dibromofluoromethane	50	48.5	97	70 (75)	130 (124)
		Toluene-d8	50	47.8	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.6	95	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX043729.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1107WBS01	Vinyl chloride	20	17.9	ug/L	90			70 (65)	130 (117)	
	1,1-Dichloroethene	20	20.2	ug/L	101			70 (74)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.8	ug/L	94			70 (77)	130 (113)	
	Chloroform	20	22.4	ug/L	112			70 (79)	130 (113)	
	Benzene	20	21.5	ug/L	108			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.0	ug/L	100			70 (80)	130 (115)	
	Trichloroethene	20	21.9	ug/L	110			70 (77)	130 (113)	
	Tetrachloroethene	20	20.5	ug/L	103			70 (67)	130 (123)	
	Chlorobenzene	20	22.1	ug/L	111			70 (82)	130 (109)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX043730.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1107WBSD01	Vinyl chloride	20	17.7	ug/L	89	1		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	21.0	ug/L	105	4		70 (74)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	10		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	18.4	ug/L	92	2		70 (77)	130 (113)	20 (20)
	Chloroform	20	23.7	ug/L	119	6		70 (79)	130 (113)	20 (20)
	Benzene	20	22.0	ug/L	110	2		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.8	ug/L	104	4		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	21.9	ug/L	110	0		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	21.5	ug/L	108	5		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	22.0	ug/L	110	1		70 (82)	130 (109)	20 (20)

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1107WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4718

SAS No.: P4718 SDG NO.: P4718

Lab File ID: VX043728.D

Lab Sample ID: VX1107WBL01

Date Analyzed: 11/07/2024

Time Analyzed: 11:53

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
VX1107WBS01	VX1107WBS01	VX043729.D	11/07/2024
VX1107WBSD01	VX1107WBSD01	VX043730.D	11/07/2024
WB-307-SB02	P4718-03	VX043733.D	11/07/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
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
VSTDIC001	VSTDIC001	VX043556.D	10/28/2024	10:59
VSTDIC005	VSTDIC005	VX043557.D	10/28/2024	11:22
VSTDIC020	VSTDIC020	VX043558.D	10/28/2024	11:45
VSTDIC050	VSTDIC050	VX043559.D	10/28/2024	12:08
VSTDIC100	VSTDIC100	VX043560.D	10/28/2024	12:31
VSTDIC150	VSTDIC150	VX043561.D	10/28/2024	12:54

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
Lab File ID: VX043725.D BFB Injection Date: 11/07/2024
Instrument ID: MSVOA_X BFB Injection Time: 10:18
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	16.1
75	30.0 - 60.0% of mass 95	46.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	77.2
175	5.0 - 9.0% of mass 174	5.9 (7.6) 1
176	95.0 - 101.0% of mass 174	77.5 (100.3) 1
177	5.0 - 9.0% of mass 176	4.9 (6.3) 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	VX043726.D	11/07/2024	10:46
VX1107WBL01	VX1107WBL01	VX043728.D	11/07/2024	11:53
VX1107WBS01	VX1107WBS01	VX043729.D	11/07/2024	12:19
VX1107WBSD01	VX1107WBSD01	VX043730.D	11/07/2024	12:42
WB-307-SB02	P4718-03	VX043733.D	11/07/2024	13:56

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
Lab File ID: VX043726.D Date Analyzed: 11/07/2024
Instrument ID: MSVOA_X Time Analyzed: 10:46
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	96887	5.54	175036	6.76	158336	10.05
UPPER LIMIT	193774	6.044	350072	7.257	316672	10.549
LOWER LIMIT	48443.5	5.044	87518	6.257	79168	9.549
EPA SAMPLE NO.						
WB-307-SB02	74982	5.55	134619	6.76	118244	10.06
VX1107WBL01	93207	5.55	162976	6.76	144247	10.06
VX1107WBS01	82126	5.54	153670	6.76	142458	10.06
VX1107WBSD01	83388	5.55	159680	6.76	147769	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
 Lab File ID: VX043726.D Date Analyzed: 11/07/2024
 Instrument ID: MSVOA_X Time Analyzed: 10:46
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	77959	12.018				
UPPER LIMIT	155918	12.518				
LOWER LIMIT	38979.5	11.518				
EPA SAMPLE NO.						
WB-307-SB02	50308	12.02				
VX1107WBL01	66166	12.02				
VX1107WBS01	70080	12.02				
VX1107WBSD01	69442	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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1107WBL01	SDG No.:	P4718
Lab Sample ID:	VX1107WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043728.D	1		11/07/24 11:53	VX110724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	38.1		70 (74) - 130 (125)	76%	SPK: 50
1868-53-7	Dibromofluoromethane	45.9		70 (75) - 130 (124)	92%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.7		70 (77) - 130 (121)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	93200	5.55			
540-36-3	1,4-Difluorobenzene	163000	6.757			
3114-55-4	Chlorobenzene-d5	144000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	66200	12.024			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1107WBS01	SDG No.:	P4718
Lab Sample ID:	VX1107WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043729.D	1		11/07/24 12:19	VX110724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.9		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.2		0.26	1.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.8		0.25	1.00	ug/L
67-66-3	Chloroform	22.4		0.26	1.00	ug/L
71-43-2	Benzene	21.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.0		0.24	1.00	ug/L
79-01-6	Trichloroethene	21.9		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	20.5		0.25	1.00	ug/L
108-90-7	Chlorobenzene	22.1		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.8		70 (74) - 130 (125)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	82100	5.544			
540-36-3	1,4-Difluorobenzene	154000	6.757			
3114-55-4	Chlorobenzene-d5	142000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	70100	12.024			

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1107WBSD01	SDG No.:	P4718
Lab Sample ID:	VX1107WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043730.D	1		11/07/24 12:42	VX110724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.7		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.0		0.26	1.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	1.00	ug/L
67-66-3	Chloroform	23.7		0.26	1.00	ug/L
71-43-2	Benzene	22.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	21.9		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	21.5		0.25	1.00	ug/L
108-90-7	Chlorobenzene	22.0		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.0		70 (74) - 130 (125)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	47.8		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	83400	5.55			
540-36-3	1,4-Difluorobenzene	160000	6.757			
3114-55-4	Chlorobenzene-d5	148000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	69400	12.024			

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

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	RRF	% RSD	
Vinyl Chloride	0.626	0.674	0.638	0.634	0.643	0.591	0.634	4.2	
1,1-Dichloroethene	0.533	0.555	0.521	0.536	0.556	0.513	0.536	3.3	
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	
Chloroform	1.171	1.170	1.165	1.163	1.166	1.087	1.154	2.8	
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	
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	
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.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_X Calibration Date/Time: 11/07/2024 10:46

Lab File ID: VX043726.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
Vinyl Chloride	0.634	0.517		-18.45	20
1,1-Dichloroethene	0.536	0.495		-7.65	20
2-Butanone	0.462	0.478		3.46	20
Carbon Tetrachloride	0.444	0.402		-9.46	20
Chloroform	1.154	1.135		-1.65	20
Benzene	1.341	1.287		-4.03	20
1,2-Dichloroethane	0.482	0.452		-6.22	20
Trichloroethene	0.333	0.326		-2.1	20
Tetrachloroethene	0.314	0.299		-4.78	20
Chlorobenzene	1.076	1.077	0.3	0.09	20
1,2-Dichloroethane-d4	0.797	0.734		-7.91	20
Dibromofluoromethane	0.339	0.358		5.61	20
Toluene-d8	1.174	1.214		3.41	20
4-Bromofluorobenzene	0.435	0.470		8.05	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\VX110724\
Data File : VX043733.D
Acq On : 07 Nov 2024 13:56
Operator : JC/MD
Sample : P4718-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-307-SB02

Quant Time: Nov 08 04:07:25 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

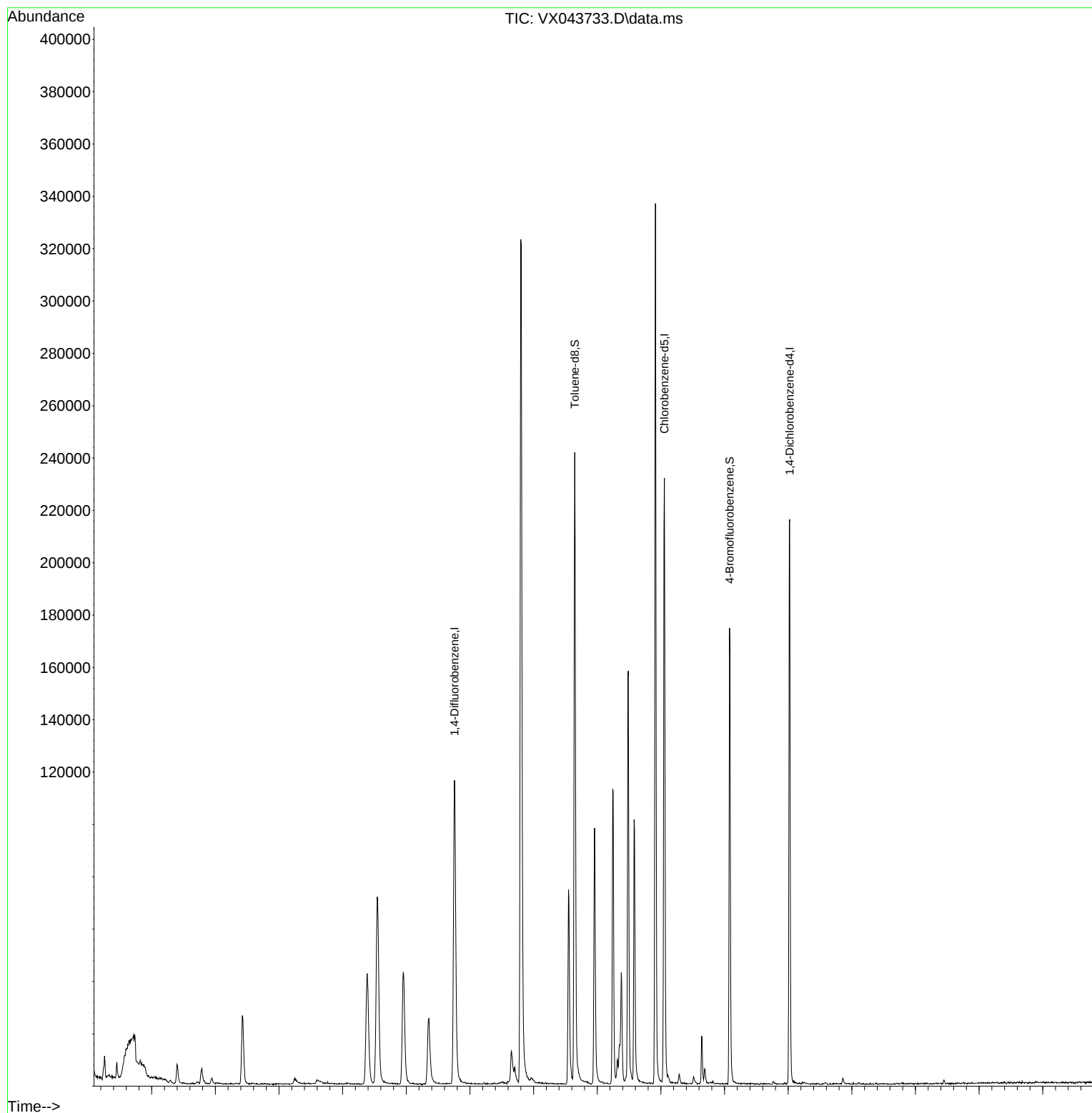
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	74982	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	134619	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	118244	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	50308	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	43950	36.760	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	73.520%#
35) Dibromofluoromethane	5.385	113	39878	43.685	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	87.380%
50) Toluene-d8	8.647	98	157069	49.706	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.420%
62) 4-Bromofluorobenzene	11.079	95	52711	45.017	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	90.040%
Target Compounds						
16) Acetone	2.404	43	8728	18.383	ug/l	95
20) Methylene Chloride	2.788	84	3524	3.444	ug/l #	87
43) Isopropyl Acetate	6.348	43	39098	17.991	ug/l	97

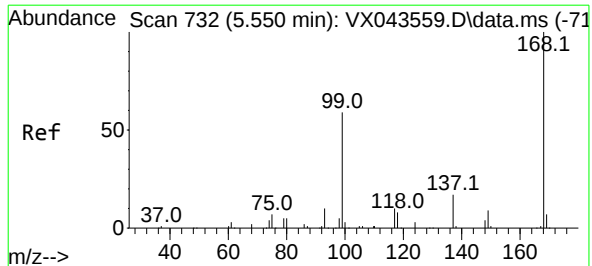
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043733.D
Acq On : 07 Nov 2024 13:56
Operator : JC/MD
Sample : P4718-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-307-SB02

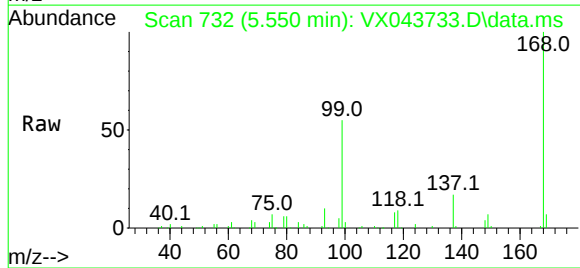
Quant Time: Nov 08 04:07:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



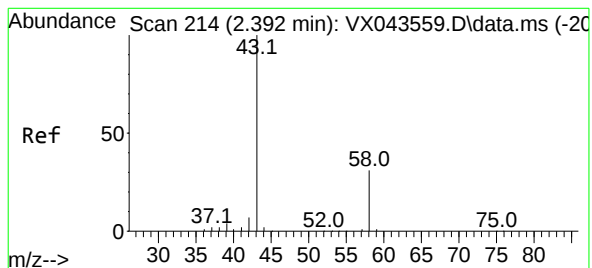
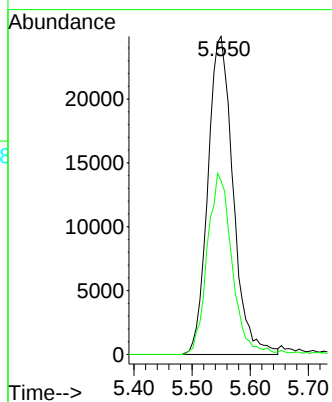
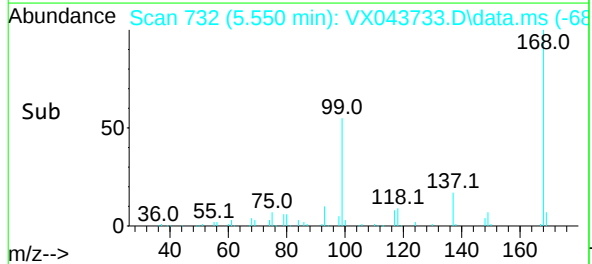


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Instrument :
MSVOA_X
ClientSampleId :
WB-307-SB02

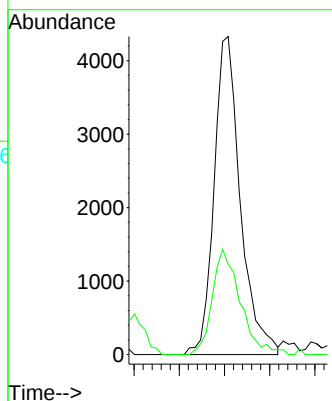
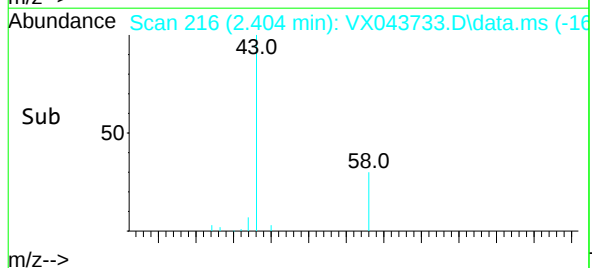
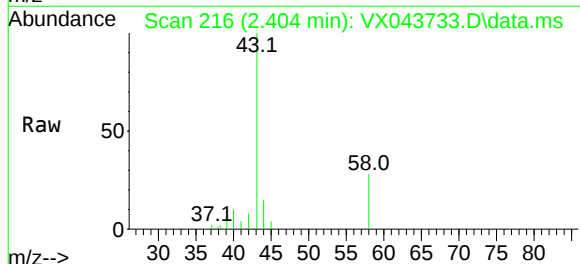


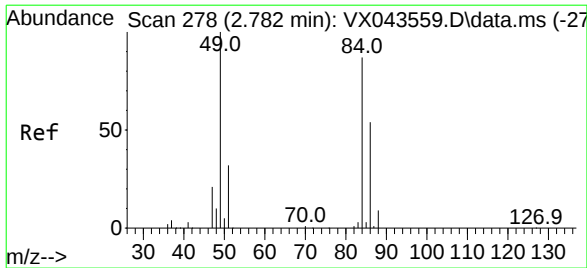
Tgt Ion: 168 Resp: 74982
Ion Ratio Lower Upper
168 100
99 54.5 52.6 78.8



#16
Acetone
Concen: 18.383 ug/l
RT: 2.404 min Scan# 216
Delta R.T. 0.006 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Tgt Ion: 43 Resp: 8728
Ion Ratio Lower Upper
43 100
58 28.4 25.1 37.7





#20

Methylene Chloride

Concen: 3.444 ug/l

RT: 2.788 min Scan# 27

Delta R.T. 0.006 min

Lab File: VX043733.D

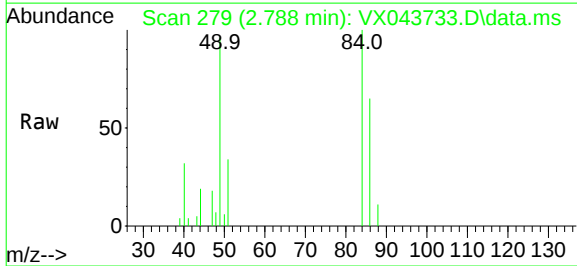
Acq: 07 Nov 2024 13:56

Instrument :

MSVOA_X

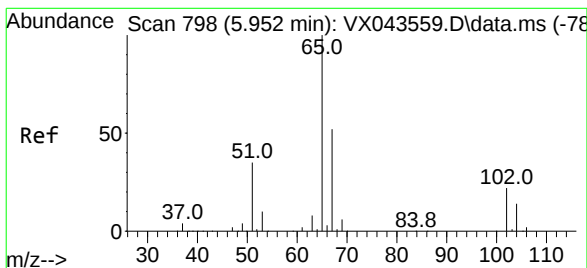
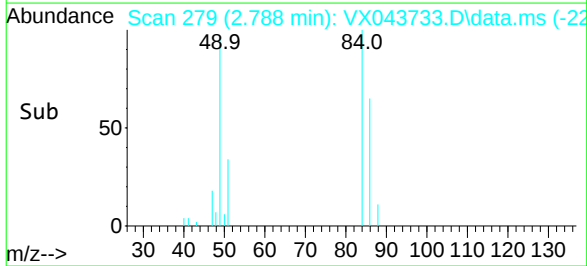
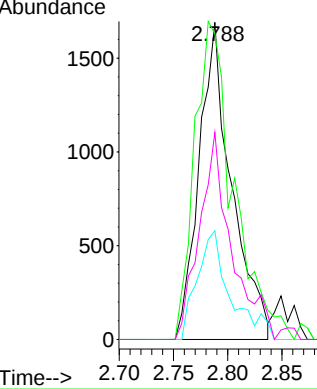
ClientSampleId :

WB-307-SB02



Tgt Ion: 84 Resp: 3524

Ion	Ratio	Lower	Upper
84	100		
49	96.4	97.0	145.6#
51	34.3	29.8	44.8
86	65.3	53.1	79.7



#33

1,2-Dichloroethane-d4

Concen: 36.760 ug/l

RT: 5.958 min Scan# 799

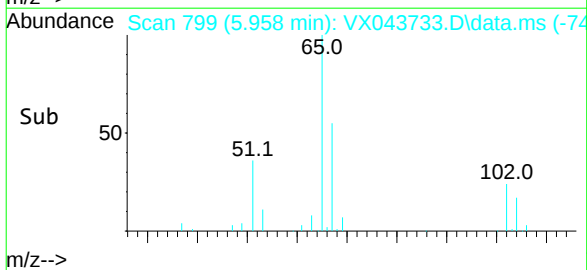
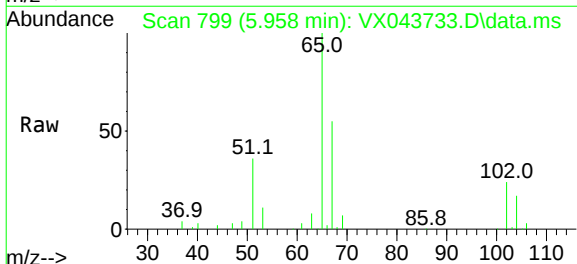
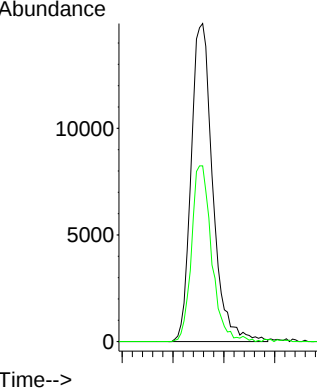
Delta R.T. 0.006 min

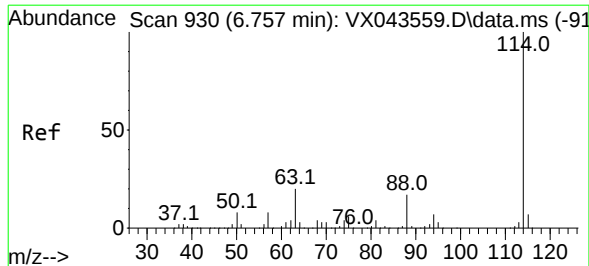
Lab File: VX043733.D

Acq: 07 Nov 2024 13:56

Tgt Ion: 65 Resp: 43950

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 93

Delta R.T. 0.000 min

Lab File: VX043733.D

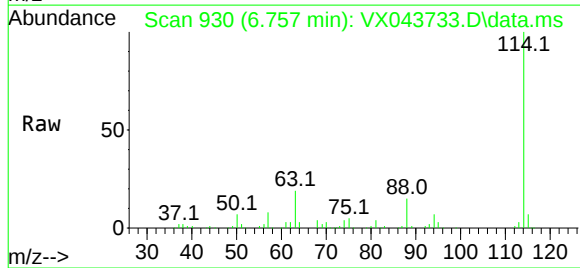
Acq: 07 Nov 2024 13:56

Instrument :

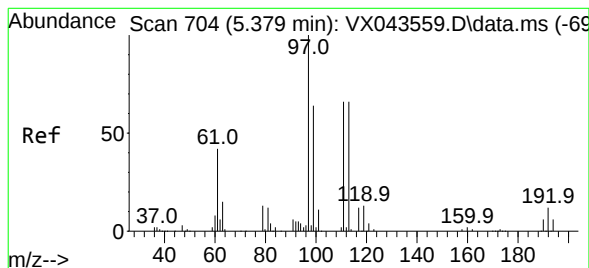
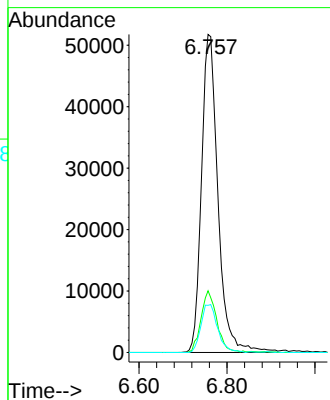
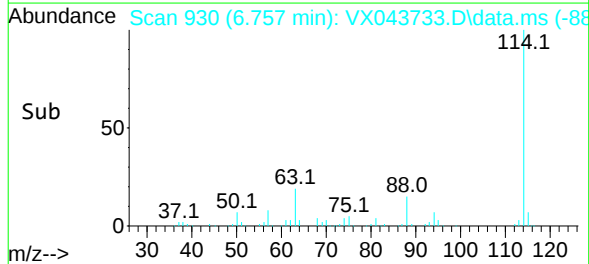
MSVOA_X

ClientSampleId :

WB-307-SB02



Tgt Ion:	114	Resp:	134619
Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	41.2
88	14.8	0.0	34.0



#35

Dibromofluoromethane

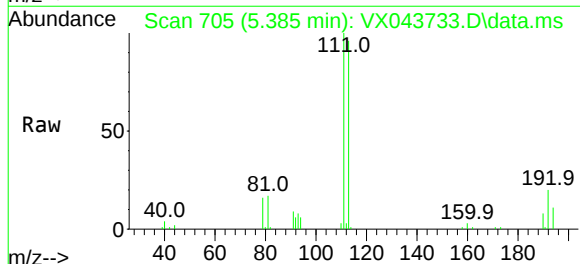
Concen: 43.685 ug/l

RT: 5.385 min Scan# 705

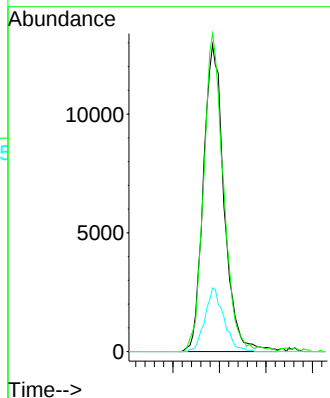
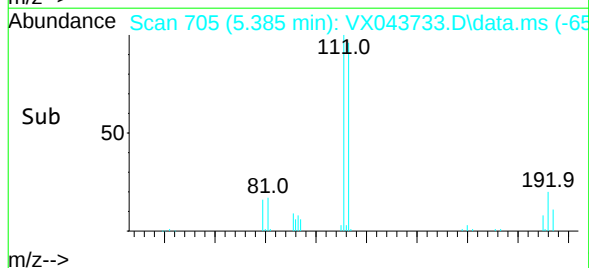
Delta R.T. 0.000 min

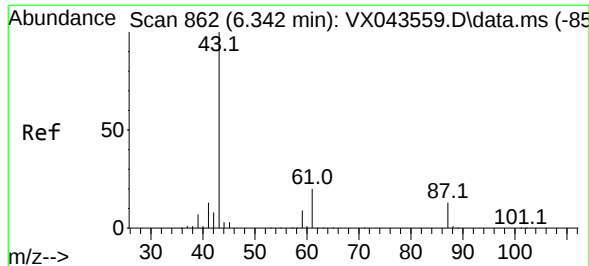
Lab File: VX043733.D

Acq: 07 Nov 2024 13:56



Tgt Ion:	113	Resp:	39878
Ion	Ratio	Lower	Upper
113	100		
111	99.0	81.4	122.0
192	19.0	14.1	21.1





#43

Isopropyl Acetate

Concen: 17.991 ug/l

RT: 6.348 min Scan# 862

Delta R.T. 0.006 min

Lab File: VX043733.D

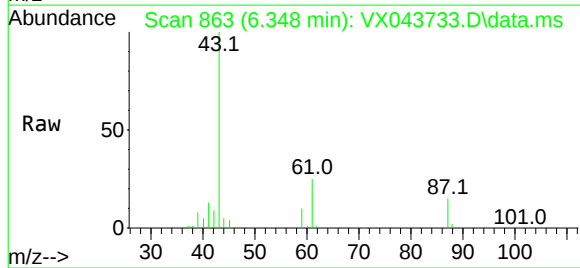
Acq: 07 Nov 2024 13:56

Instrument :

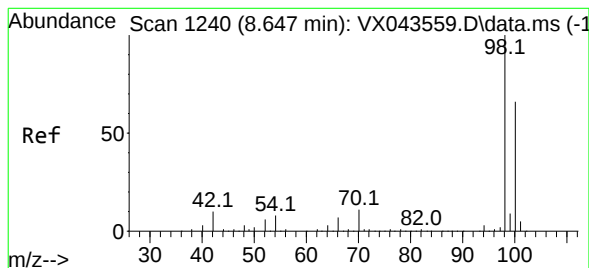
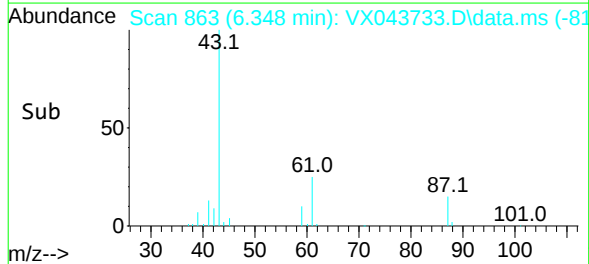
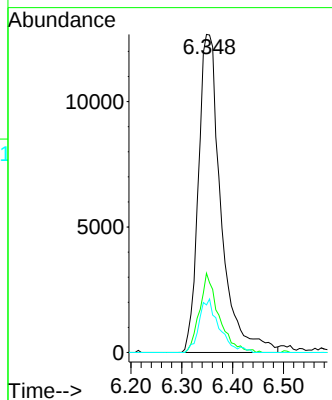
MSVOA_X

ClientSampleId :

WB-307-SB02



Tgt Ion:	43	Resp:	39098
Ion	Ratio	Lower	Upper
43	100		
61	21.3	16.2	24.4
87	15.1	11.0	16.6



#50

Toluene-d8

Concen: 49.706 ug/l

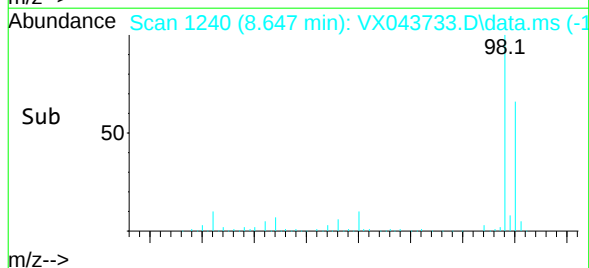
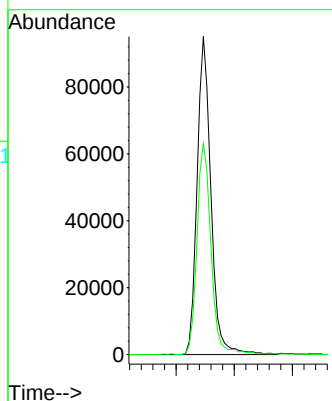
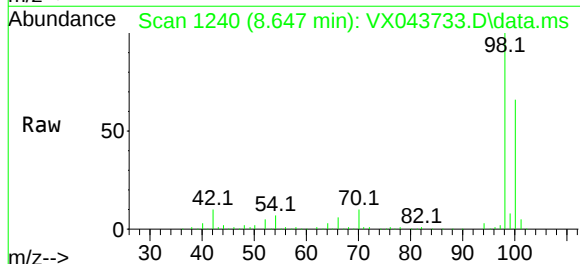
RT: 8.647 min Scan# 1240

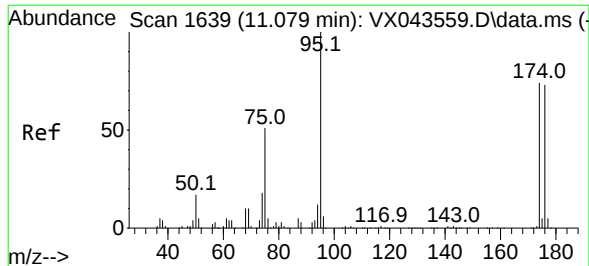
Delta R.T. 0.000 min

Lab File: VX043733.D

Acq: 07 Nov 2024 13:56

Tgt Ion:	98	Resp:	157069
Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.4	80.2





#62

4-Bromofluorobenzene

Concen: 45.017 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX043733.D

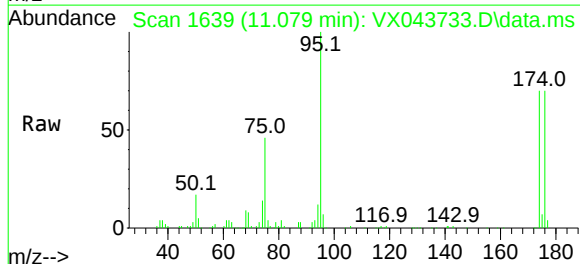
Acq: 07 Nov 2024 13:56

Instrument :

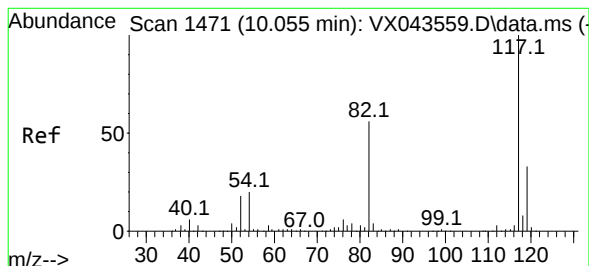
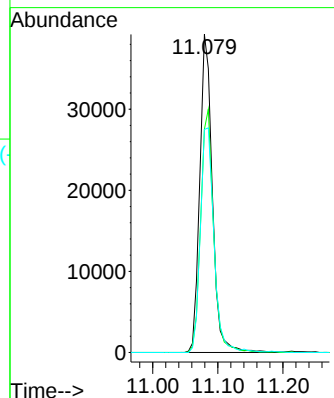
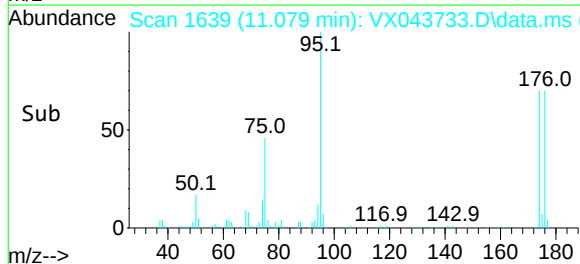
MSVOA_X

ClientSampleId :

WB-307-SB02



Tgt Ion:	95	Resp:	52711
Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	146.6
176	76.4	0.0	139.6



#63

Chlorobenzene-d5

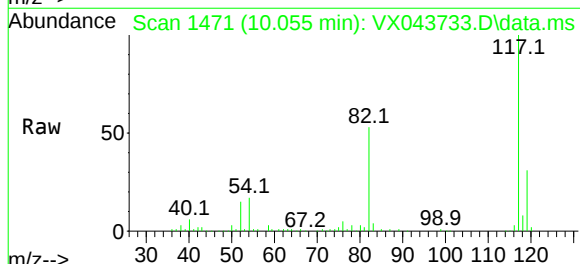
Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

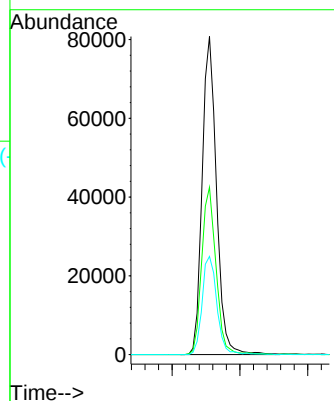
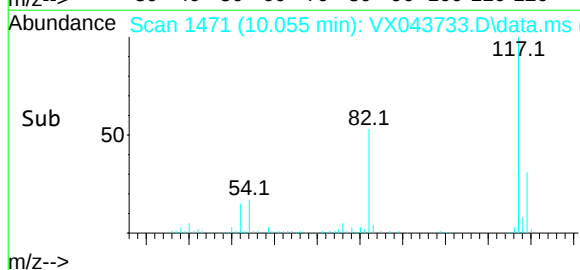
Delta R.T. 0.000 min

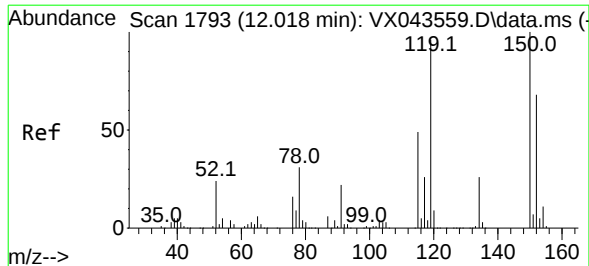
Lab File: VX043733.D

Acq: 07 Nov 2024 13:56



Tgt Ion:	117	Resp:	118244
Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.1	63.1
119	30.9	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: VX043733.D

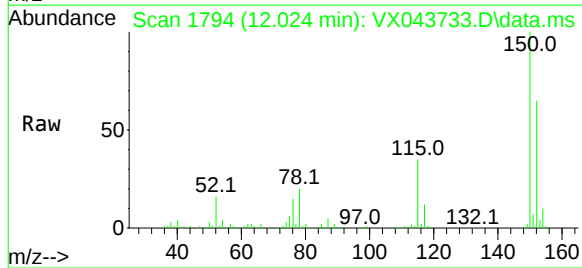
Acq: 07 Nov 2024 13:56

Instrument :

MSVOA_X

ClientSampleId :

WB-307-SB02



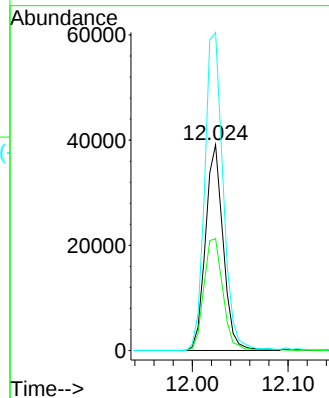
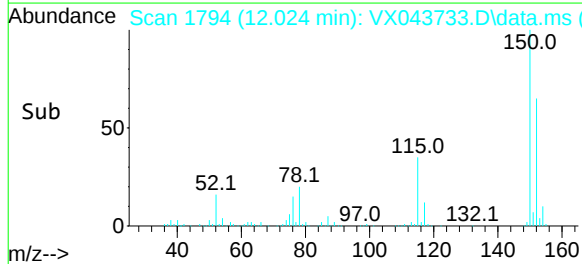
Tgt Ion:152 Resp: 50308

Ion Ratio Lower Upper

152 100

115 58.9 42.9 128.7

150 160.7 0.0 343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043728.D
Acq On : 07 Nov 2024 11:53
Operator : JC/MD
Sample : VX1107WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBL01

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Nov 08 04:04:15 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	93207	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	162976	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	144247	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	66166	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	56688	38.143	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	76.280%
35) Dibromofluoromethane	5.385	113	50670	45.850	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.700%
50) Toluene-d8	8.647	98	186832	48.838	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.680%
62) 4-Bromofluorobenzene	11.079	95	66258	46.741	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	93.480%

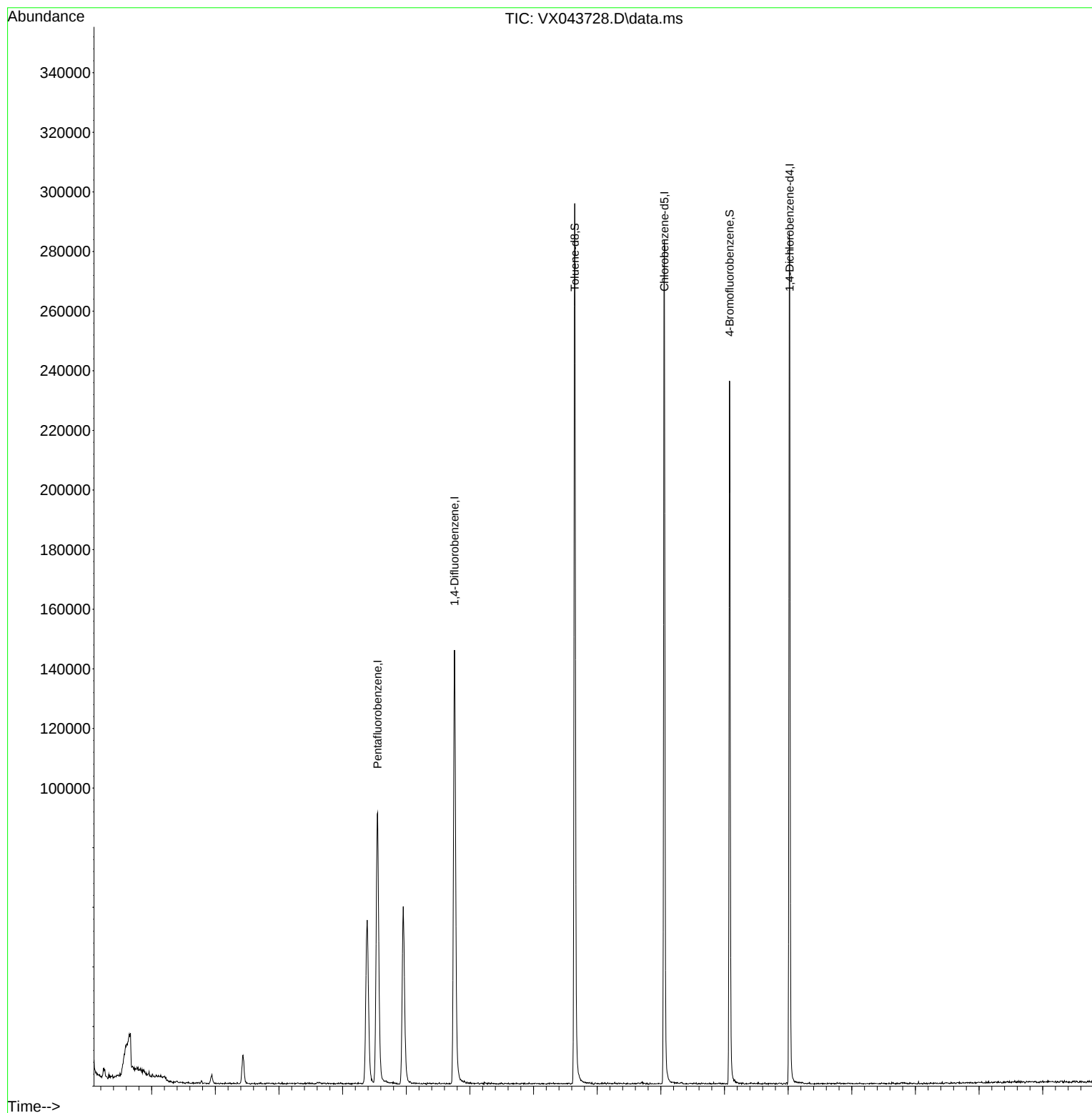
Target Compounds	Qvalue

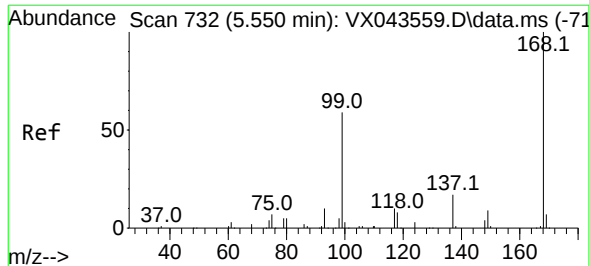
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043728.D
Acq On : 07 Nov 2024 11:53
Operator : JC/MD
Sample : VX1107WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBL01

Quant Time: Nov 08 04:04:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.000 min

Lab File: VX043728.D

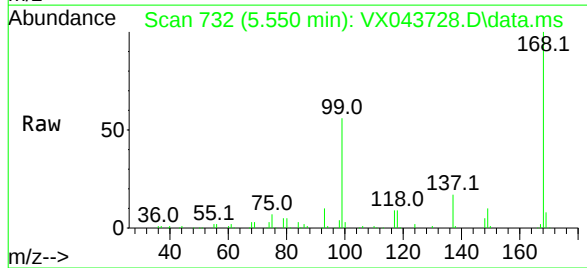
Acq: 07 Nov 2024 11:53

Instrument :

MSVOA_X

ClientSampleId :

VX1107WBL01

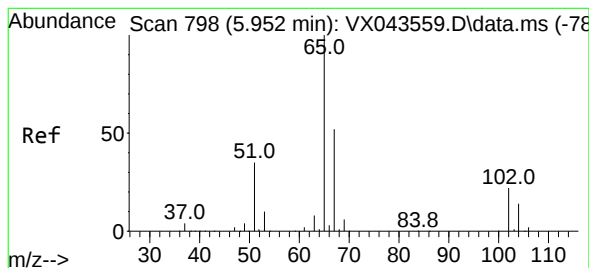
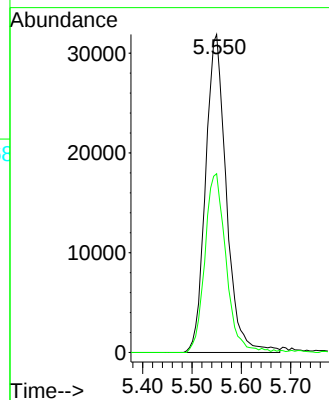
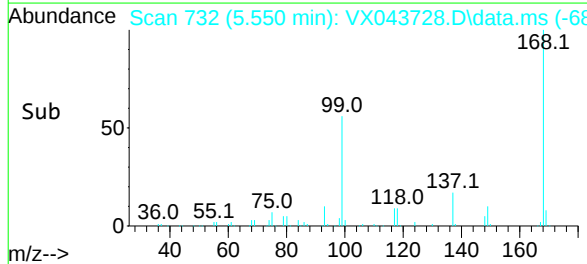


Tgt Ion:168 Resp: 93207

Ion Ratio Lower Upper

168 100

99 56.2 52.6 78.8



#33

1,2-Dichloroethane-d4

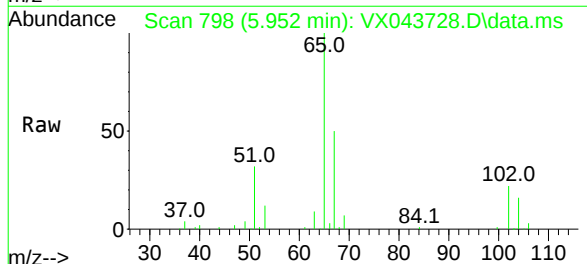
Concen: 38.143 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX043728.D

Acq: 07 Nov 2024 11:53

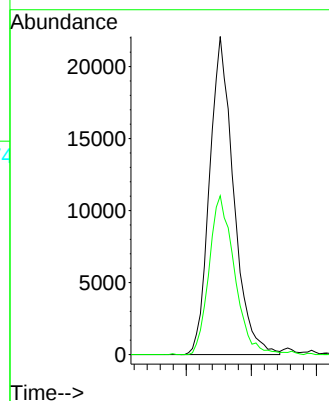
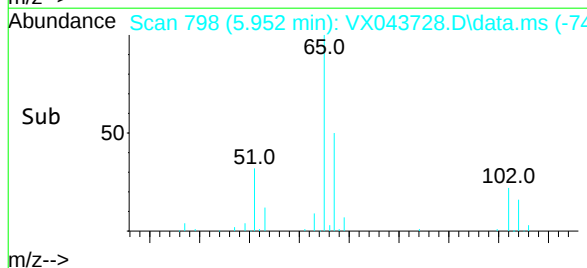


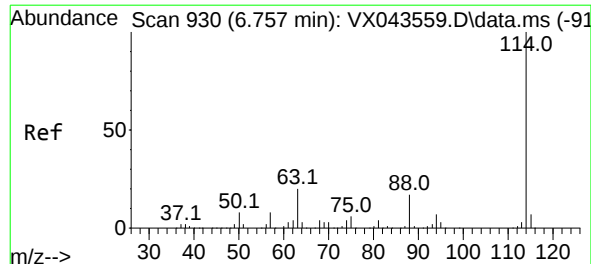
Tgt Ion: 65 Resp: 56688

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 93

Delta R.T. 0.000 min

Lab File: VX043728.D

Acq: 07 Nov 2024 11:53

Instrument :

MSVOA_X

ClientSampleId :

VX1107WBL01

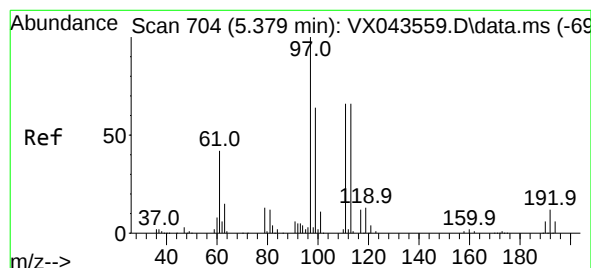
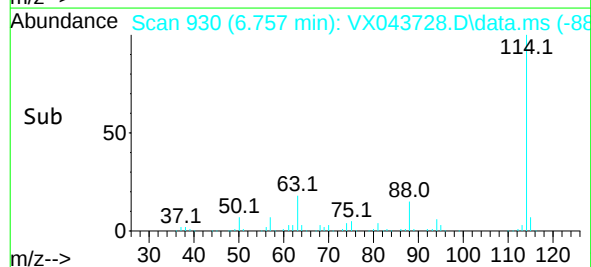
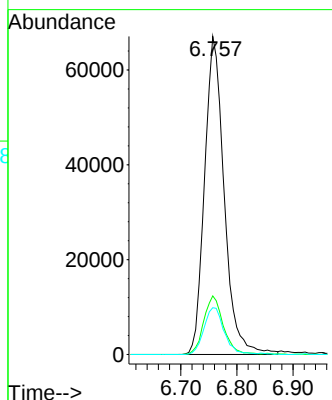
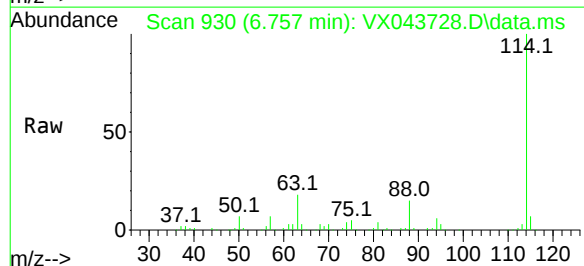
Tgt Ion:114 Resp: 162976

Ion Ratio Lower Upper

114 100

63 18.4 0.0 41.2

88 14.7 0.0 34.0



#35

Dibromofluoromethane

Concen: 45.850 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX043728.D

Acq: 07 Nov 2024 11:53

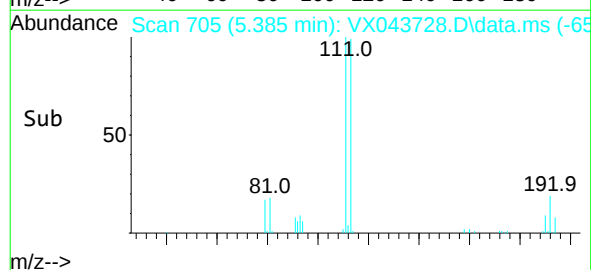
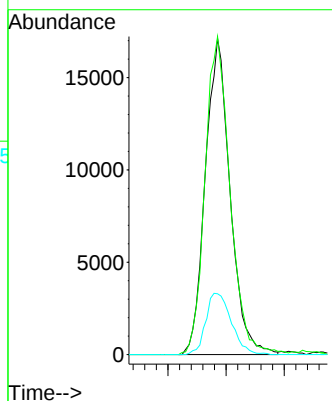
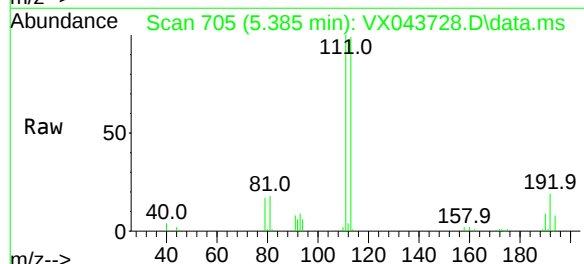
Tgt Ion:113 Resp: 50670

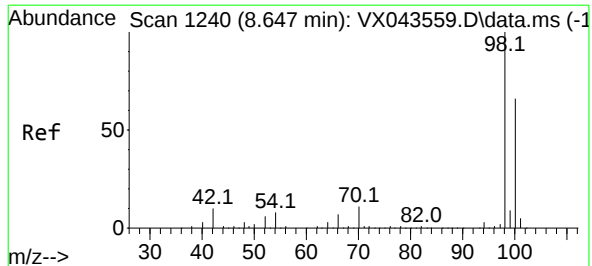
Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

192 20.0 14.1 21.1





#50

Toluene-d8

Concen: 48.838 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX043728.D

Acq: 07 Nov 2024 11:53

Instrument :

MSVOA_X

ClientSampleId :

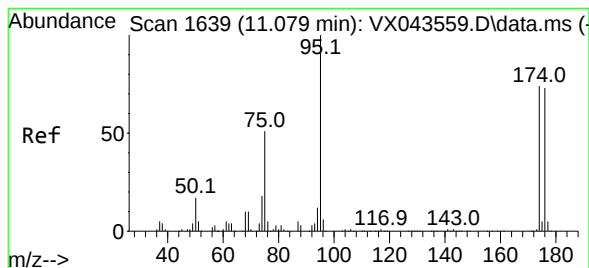
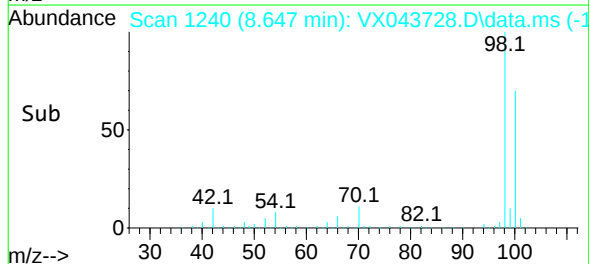
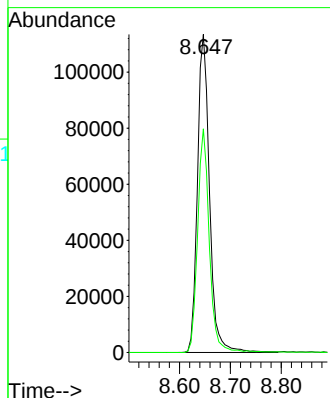
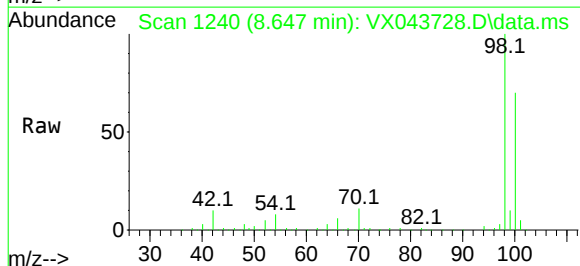
VX1107WBL01

Tgt Ion: 98 Resp: 186832

Ion Ratio Lower Upper

98 100

100 67.7 53.4 80.2



#62

4-Bromofluorobenzene

Concen: 46.741 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX043728.D

Acq: 07 Nov 2024 11:53

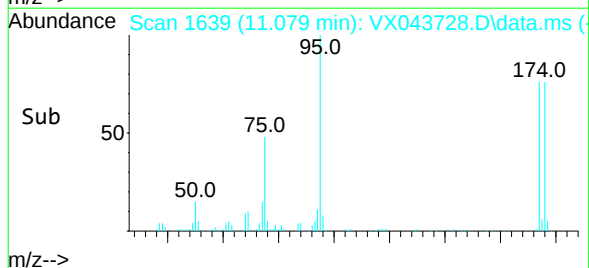
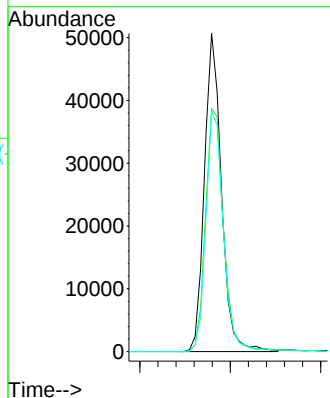
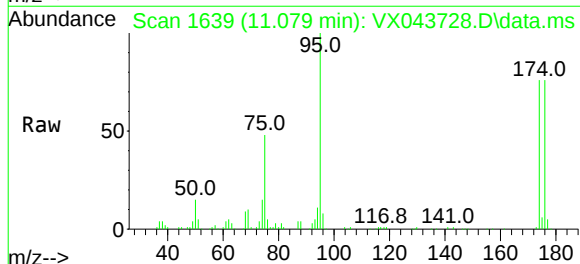
Tgt Ion: 95 Resp: 66258

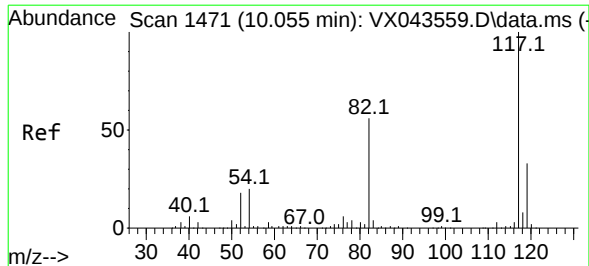
Ion Ratio Lower Upper

95 100

174 81.8 0.0 146.6

176 78.4 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: VX043728.D

Acq: 07 Nov 2024 11:53

Instrument :

MSVOA_X

ClientSampleId :

VX1107WBL01

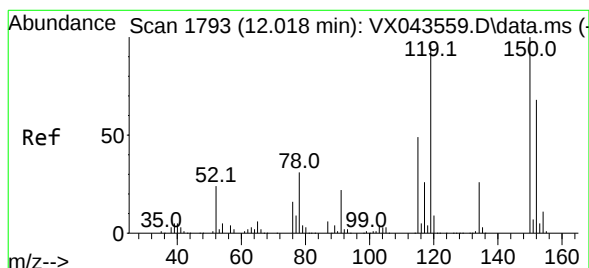
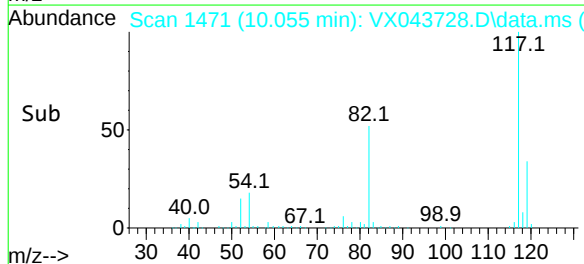
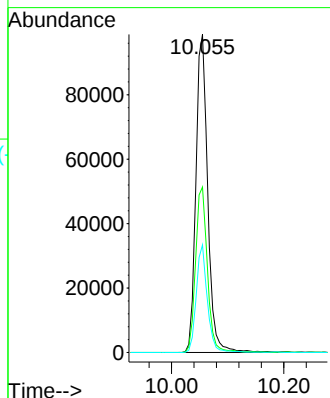
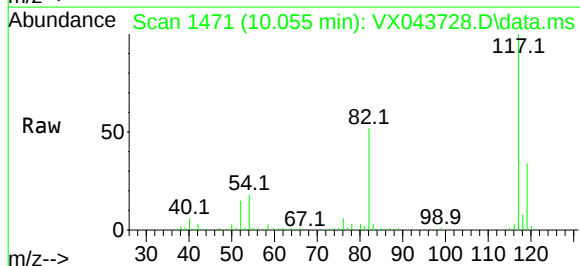
Tgt Ion:117 Resp: 144247

Ion Ratio Lower Upper

117 100

82 52.0 42.1 63.1

119 33.8 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX043728.D

Acq: 07 Nov 2024 11:53

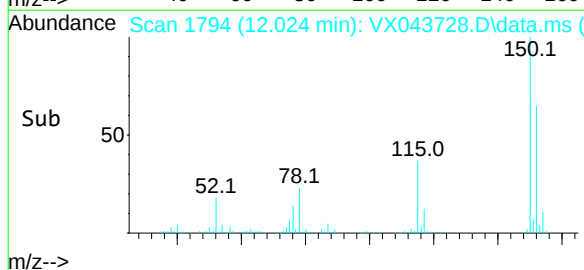
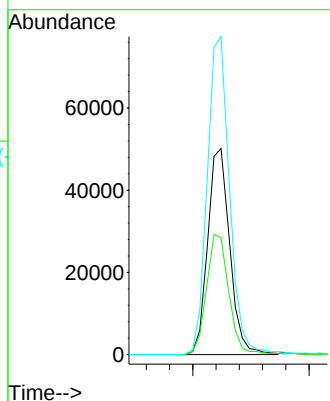
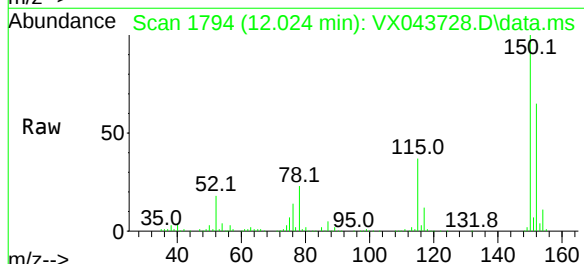
Tgt Ion:152 Resp: 66166

Ion Ratio Lower Upper

152 100

115 59.2 42.9 128.7

150 156.8 0.0 343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
 Data File : VX043729.D
 Acq On : 07 Nov 2024 12:19
 Operator : JC/MD
 Sample : VX1107WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1107WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
 Supervised By :Semsettin Yesilyurt 11/08/2024

Quant Time: Nov 08 04:04:42 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	82126	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	153670	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	142458	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	70080	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	56078	42.823	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	85.640%
35) Dibromofluoromethane	5.379	113	49651	47.648	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.300%
50) Toluene-d8	8.647	98	175576	48.675	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.340%
62) 4-Bromofluorobenzene	11.079	95	65254	48.820	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.640%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	14504	16.514	ug/l	96
3) Chloromethane	1.294	50	19760	17.600	ug/l	98
4) Vinyl Chloride	1.374	62	18616	17.866	ug/l	97
5) Bromomethane	1.593	94	9851	23.191	ug/l	100
6) Chloroethane	1.660	64	8298	22.604	ug/l	89
7) Trichlorofluoromethane	1.867	101	26027	20.447	ug/l	94
8) Diethyl Ether	2.136	74	13374	22.740	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.319	101	18635	21.647	ug/l	96
10) Methyl Iodide	2.447	142	28517	22.928	ug/l	94
11) Tert butyl alcohol	2.995	59	26648m	109.025	ug/l	
12) 1,1-Dichloroethene	2.306	96	17766	20.195	ug/l	92
13) Acrolein	2.239	56	9070	47.451	ug/l	91
14) Allyl chloride	2.654	41	30200	19.848	ug/l	95
15) Acrylonitrile	3.068	53	59412	107.661	ug/l	99
16) Acetone	2.386	43	52090	100.170	ug/l	95
17) Carbon Disulfide	2.501	76	29973	16.294	ug/l	99
18) Methyl Acetate	2.703	43	30514	20.078	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	70511	21.076	ug/l	100
20) Methylene Chloride	2.782	84	24424	21.793	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	19194	20.652	ug/l	95
22) Diisopropyl ether	3.757	45	69527	22.106	ug/l #	85
23) Vinyl Acetate	3.721	43	260086	100.097	ug/l	97
24) 1,1-Dichloroethane	3.599	63	39245	21.710	ug/l	98
25) 2-Butanone	4.562	43	79634	104.981	ug/l	94
26) 2,2-Dichloropropane	4.471	77	28992	19.593	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	27282	22.979	ug/l	94
28) Bromochloromethane	4.891	49	18808	21.872	ug/l	91
29) Tetrahydrofuran	5.007	42	50424	102.289	ug/l	96
30) Chloroform	5.086	83	42494	22.425	ug/l	96
31) Cyclohexane	5.452	56	26041	18.835	ug/l	92
32) 1,1,1-Trichloroethane	5.379	97	31847	20.018	ug/l	98
36) 1,1-Dichloropropene	5.690	75	24013	19.434	ug/l	99
37) Ethyl Acetate	4.727	43	27949	18.632	ug/l	94
38) Carbon Tetrachloride	5.665	117	25616	18.763	ug/l	94
39) Methylcyclohexane	7.379	83	29250	19.067	ug/l	93
40) Benzene	6.031	78	88584	21.490	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
 Data File : VX043729.D
 Acq On : 07 Nov 2024 12:19
 Operator : JC/MD
 Sample : VX1107WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1107WBS01

Quant Time: Nov 08 04:04:42 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

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
 Supervised By :Semsettin Yesilyurt 11/08/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	14948	18.984	ug/l	90
42) 1,2-Dichloroethane	6.080	62	29602	19.976	ug/l	96
43) Isopropyl Acetate	6.342	43	47093	18.983	ug/l	95
44) Trichloroethene	7.123	130	22407	21.881	ug/l	95
45) 1,2-Dichloropropane	7.427	63	22271	21.943	ug/l	98
46) Dibromomethane	7.580	93	15512	19.849	ug/l	90
47) Bromodichloromethane	7.818	83	29243	21.330	ug/l	93
48) Methyl methacrylate	7.696	41	21229	18.049	ug/l	92
49) 1,4-Dioxane	7.665	88	12299	508.971	ug/l	93
51) 4-Methyl-2-Pentanone	8.573	43	155067	102.556	ug/l	98
52) Toluene	8.714	92	56482	22.594	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	29262	19.872	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	34071	21.716	ug/l	94
55) 1,1,2-Trichloroethane	9.153	97	23713	22.789	ug/l	99
56) Ethyl methacrylate	9.116	69	34395	20.342	ug/l	92
57) 1,3-Dichloropropane	9.305	76	37575	21.711	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.238	63	66286	80.947	ug/l	95
59) 2-Hexanone	9.433	43	117046	101.922	ug/l	96
60) Dibromochloromethane	9.518	129	22446	21.784	ug/l	99
61) 1,2-Dibromoethane	9.610	107	23692	21.934	ug/l	96
64) Tetrachloroethene	9.275	164	18409	20.546	ug/l	88
65) Chlorobenzene	10.079	112	67694	22.087	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.165	131	22716	22.691	ug/l	97
67) Ethyl Benzene	10.195	91	100015	20.013	ug/l	97
68) m/p-Xylenes	10.299	106	81427	42.605	ug/l	95
69) o-Xylene	10.640	106	43245	22.521	ug/l	92
70) Styrene	10.652	104	71706	22.467	ug/l	97
71) Bromoform	10.799	173	13378	18.586	ug/l #	94
73) Isopropylbenzene	10.963	105	99911	20.126	ug/l	99
74) N-amyl acetate	10.841	43	40172	16.612	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.213	83	35503	19.889	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	28437m	18.978	ug/l	
77) Bromobenzene	11.195	156	29110	22.710	ug/l	92
78) n-propylbenzene	11.305	91	108852	20.111	ug/l	98
79) 2-Chlorotoluene	11.366	91	75271	20.972	ug/l	96
80) 1,3,5-Trimethylbenzene	11.451	105	87193	21.066	ug/l	95
81) trans-1,4-Dichloro-2-b...	11.018	75	9083	16.676	ug/l	96
82) 4-Chlorotoluene	11.451	91	84149	20.889	ug/l	95
83) tert-Butylbenzene	11.713	119	86932	20.651	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	90429	21.438	ug/l	98
85) sec-Butylbenzene	11.890	105	100422	20.353	ug/l	99
86) p-Isopropyltoluene	12.006	119	86194	20.551	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	52115	22.683	ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	52215	21.933	ug/l	98
89) n-Butylbenzene	12.335	91	67735	19.820	ug/l	98
90) Hexachloroethane	12.536	117	13551	19.891	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	53372	22.718	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	6303	17.320	ug/l	87
93) 1,2,4-Trichlorobenzene	13.585	180	30127	21.126	ug/l	98
94) Hexachlorobutadiene	13.725	225	11056	21.028	ug/l	98
95) Naphthalene	13.774	128	105290	19.294	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	30874	20.534	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043729.D
Acq On : 07 Nov 2024 12:19
Operator : JC/MD
Sample : VX1107WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024

Quant Time: Nov 08 04:04:42 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

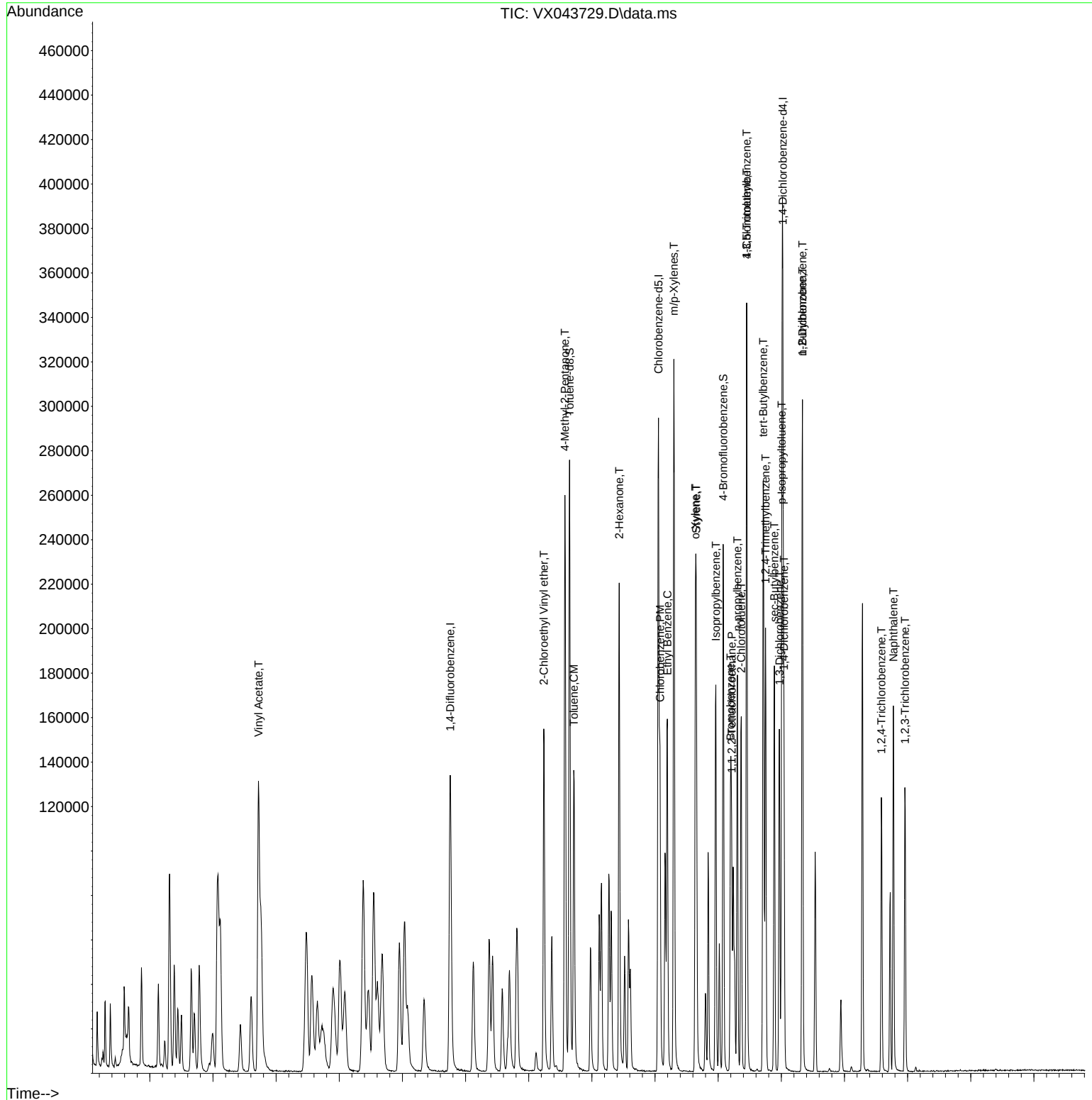
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043729.D
Acq On : 07 Nov 2024 12:19
Operator : JC/MD
Sample : VX1107WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBS01

Quant Time: Nov 08 04:04:42 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

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
 Data File : VX043730.D
 Acq On : 07 Nov 2024 12:42
 Operator : JC/MD
 Sample : VX1107WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1107WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
 Supervised By :Semsettin Yesilyurt 11/08/2024

Quant Time: Nov 08 04:05:44 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	83388	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	159680	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	147769	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	69442	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	57189	43.011	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	86.020%
35) Dibromofluoromethane	5.385	113	52499	48.485	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.980%
50) Toluene-d8	8.647	98	179219	47.815	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.620%
62) 4-Bromofluorobenzene	11.079	95	66065	47.566	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.140%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.167	85	14592	16.363	ug/l	95
3) Chloromethane	1.288	50	20557	18.033	ug/l	98
4) Vinyl Chloride	1.374	62	18771	17.742	ug/l	93
5) Bromomethane	1.593	94	10025	23.243	ug/l	100
6) Chloroethane	1.666	64	12172	32.656	ug/l	95
7) Trichlorofluoromethane	1.868	101	26893	20.807	ug/l	97
8) Diethyl Ether	2.136	74	13189	22.086	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	18021	20.617	ug/l	96
10) Methyl Iodide	2.447	142	30039	23.787	ug/l	96
11) Tert butyl alcohol	2.989	59	29692m	119.640	ug/l	
12) 1,1-Dichloroethene	2.313	96	18716	20.953	ug/l	87
13) Acrolein	2.240	56	10315	53.147	ug/l	100
14) Allyl chloride	2.660	41	30979	20.052	ug/l	96
15) Acrylonitrile	3.069	53	62881	112.222	ug/l	98
16) Acetone	2.386	43	54470	103.162	ug/l	89
17) Carbon Disulfide	2.502	76	30208	16.173	ug/l	99
18) Methyl Acetate	2.703	43	32733	21.212	ug/l	94
19) Methyl tert-butyl Ether	3.117	73	75867	22.333	ug/l	97
20) Methylene Chloride	2.782	84	25027	21.993	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	20645	21.877	ug/l	92
22) Diisopropyl ether	3.764	45	75020	23.492	ug/l	94
23) Vinyl Acetate	3.721	43	280518	106.327	ug/l	97
24) 1,1-Dichloroethane	3.605	63	41544	22.634	ug/l #	93
25) 2-Butanone	4.568	43	84341	109.504	ug/l	98
26) 2,2-Dichloropropane	4.477	77	31119	20.713	ug/l	97
27) cis-1,2-Dichloroethene	4.489	96	28638	23.757	ug/l	95
28) Bromochloromethane	4.898	49	21140	24.211	ug/l	99
29) Tetrahydrofuran	5.007	42	54133	108.151	ug/l	96
30) Chloroform	5.087	83	45637	23.719	ug/l	94
31) Cyclohexane	5.465	56	25667	18.283	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	33961	21.024	ug/l	96
36) 1,1-Dichloropropene	5.690	75	22952	17.876	ug/l	96
37) Ethyl Acetate	4.721	43	30851	19.792	ug/l	95
38) Carbon Tetrachloride	5.666	117	26081	18.384	ug/l	97
39) Methylcyclohexane	7.373	83	28982	18.181	ug/l	93
40) Benzene	6.032	78	94305	22.017	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
 Data File : VX043730.D
 Acq On : 07 Nov 2024 12:42
 Operator : JC/MD
 Sample : VX1107WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1107WBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
 Supervised By :Semsettin Yesilyurt 11/08/2024

Quant Time: Nov 08 04:05:44 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)
41) Methacrylonitrile	4.922	41	17436	21.310	ug/l	94
42) 1,2-Dichloroethane	6.086	62	32026	20.798	ug/l	97
43) Isopropyl Acetate	6.349	43	50450	19.571	ug/l	97
44) Trichloroethene	7.123	130	23289	21.886	ug/l	84
45) 1,2-Dichloropropane	7.428	63	22655	21.481	ug/l	92
46) Dibromomethane	7.580	93	16963	20.889	ug/l	93
47) Bromodichloromethane	7.818	83	31365	22.017	ug/l	96
48) Methyl methacrylate	7.696	41	24007	19.643	ug/l	93
49) 1,4-Dioxane	7.665	88	11815	470.539	ug/l	92
51) 4-Methyl-2-Pentanone	8.574	43	165707	105.468	ug/l	98
52) Toluene	8.714	92	58335	22.457	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	31022	20.275	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	35950	22.051	ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	25518	23.600	ug/l	97
56) Ethyl methacrylate	9.116	69	36371	20.702	ug/l	92
57) 1,3-Dichloropropane	9.305	76	40831	22.705	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	71667	84.224	ug/l	98
59) 2-Hexanone	9.433	43	123931	103.856	ug/l	96
60) Dibromochloromethane	9.519	129	24886	23.243	ug/l	99
61) 1,2-Dibromoethane	9.610	107	24783	22.080	ug/l	99
64) Tetrachloroethene	9.275	164	20016	21.537	ug/l	87
65) Chlorobenzene	10.080	112	69890	21.984	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	23821	22.940	ug/l	99
67) Ethyl Benzene	10.195	91	105328	20.318	ug/l	98
68) m/p-Xylenes	10.299	106	85190	42.972	ug/l	92
69) o-Xylene	10.640	106	45171	22.678	ug/l	94
70) Styrene	10.653	104	76956	23.245	ug/l	96
71) Bromoform	10.799	173	14629	19.593	ug/l #	94
73) Isopropylbenzene	10.964	105	102728	20.884	ug/l	98
74) N-amyl acetate	10.842	43	43878	18.311	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.214	83	37430	21.161	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	30179m	20.326	ug/l	
77) Bromobenzene	11.195	156	29328	23.090	ug/l	92
78) n-propylbenzene	11.305	91	110840	20.666	ug/l	97
79) 2-Chlorotoluene	11.360	91	78611	22.104	ug/l	94
80) 1,3,5-Trimethylbenzene	11.451	105	88593	21.601	ug/l	96
81) trans-1,4-Dichloro-2-b...	11.018	75	9273	17.181	ug/l	95
82) 4-Chlorotoluene	11.451	91	87233	21.853	ug/l	96
83) tert-Butylbenzene	11.713	119	88738	21.274	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	92304	22.083	ug/l	99
85) sec-Butylbenzene	11.890	105	100348	20.524	ug/l	98
86) p-Isopropyltoluene	12.006	119	88535	21.303	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	52339	22.990	ug/l	98
88) 1,4-Dichlorobenzene	12.037	146	53593	22.719	ug/l	98
89) n-Butylbenzene	12.329	91	65827	19.438	ug/l	97
90) Hexachloroethane	12.536	117	13486	19.977	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	53907	23.156	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	6446	17.876	ug/l	87
93) 1,2,4-Trichlorobenzene	13.585	180	29899	21.159	ug/l	98
94) Hexachlorobutadiene	13.725	225	10101	19.388	ug/l	93
95) Naphthalene	13.774	128	107989	19.971	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	31916	21.422	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043730.D
Acq On : 07 Nov 2024 12:42
Operator : JC/MD
Sample : VX1107WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024

A

B

C

D

E

F

G

H

I

J

K

Quant Time: Nov 08 04:05:44 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

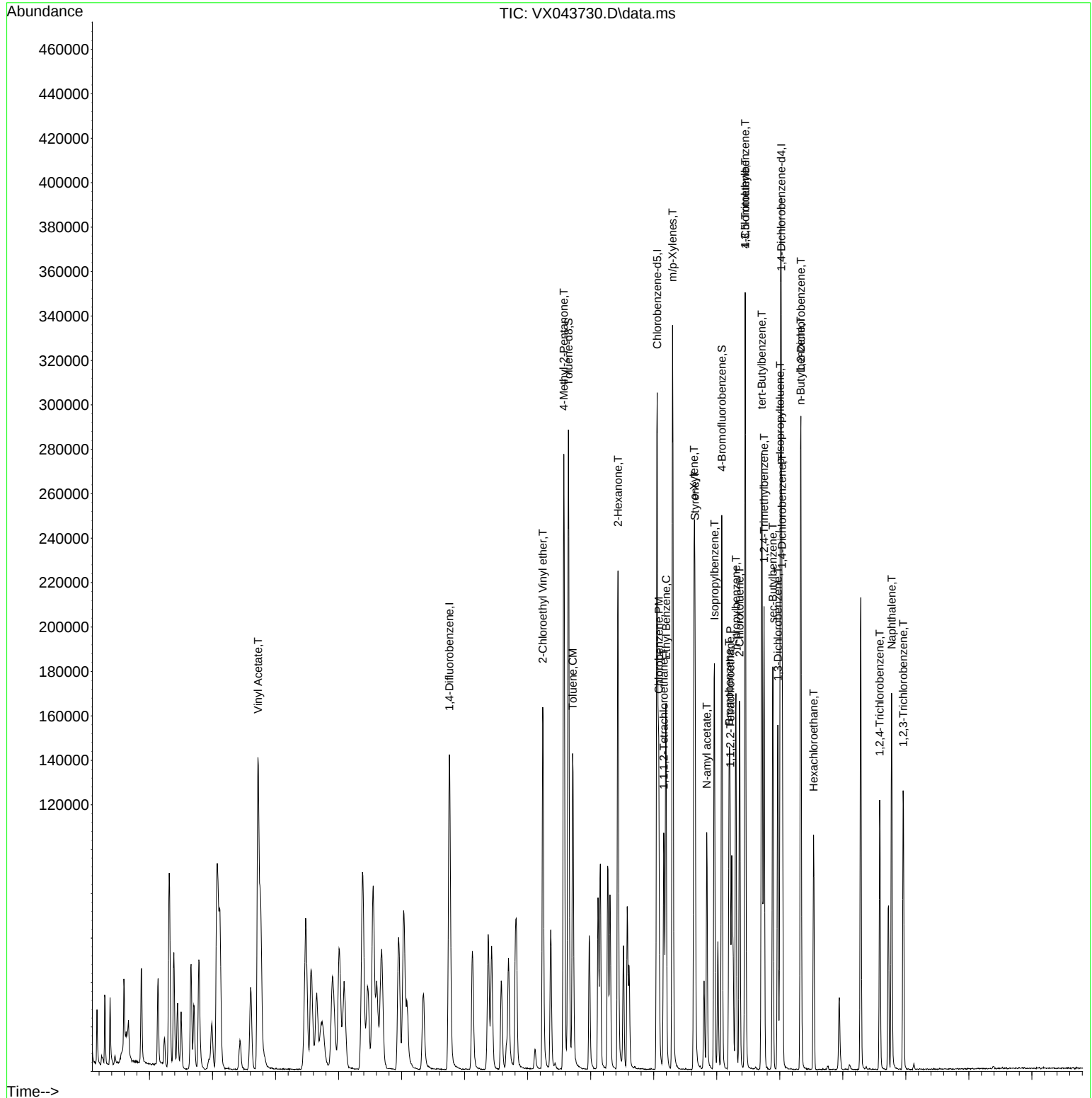
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBSD01

Manual Integrations

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024



Manual Integration Report

Sequence:	VX102824	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX043556.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	1,4-Dichlorobenzene	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Ethyl Acetate	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Methacrylonitrile	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC005	VX043557.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:13 AM	MMDadoda	10/29/2024 12:19:39 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	Tert butyl alcohol	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	Tert butyl alcohol	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICC100	VX043560.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:22 AM	MMDadoda	10/29/2024 12:19:34 PM	Peak Integrated by Software
VSTDICC150	VX043561.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:57 AM	MMDadoda	10/29/2024 12:19:32 PM	Peak Integrated by Software
VSTDICV050	VX043563.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:27 AM	MMDadoda	10/29/2024 12:19:30 PM	Peak Integrated by Software
VSTDCCC050	VX043581.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:42 AM	MMDadoda	10/29/2024 12:19:26 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VX102824

Instrument

MSVOA_x

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VX110724	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX043726.D	1,2,3-Trichloropropane	MMDadoda	11/8/2024 2:39:14 PM	SAM	11/8/2024 2:41:53 PM	Peak Integrated by Software
VSTDCCC050	VX043726.D	Tert butyl alcohol	MMDadoda	11/8/2024 2:39:14 PM	SAM	11/8/2024 2:41:53 PM	Peak Integrated by Software
VX1107WBS01	VX043729.D	1,2,3-Trichloropropane	MMDadoda	11/8/2024 2:39:14 PM	SAM	11/8/2024 2:41:52 PM	Peak Integrated by Software
VX1107WBS01	VX043729.D	Tert butyl alcohol	MMDadoda	11/8/2024 2:39:14 PM	SAM	11/8/2024 2:41:52 PM	Peak Integrated by Software
VX1107WBSD01	VX043730.D	1,2,3-Trichloropropane	MMDadoda	11/8/2024 2:39:04 PM	SAM	11/8/2024 2:41:47 PM	Peak Integrated by Software
VX1107WBSD01	VX043730.D	Tert butyl alcohol	MMDadoda	11/8/2024 2:39:04 PM	SAM	11/8/2024 2:41:47 PM	Peak Integrated by Software
VSTDCCC050	VX043748.D	1,2,3-Trichloropropane	MMDadoda	11/8/2024 2:39:13 PM	SAM	11/8/2024 2:41:28 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch 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	VSTDIC001	VX043556.D	28 Oct 2024 10:59	JC/MD	Ok,M
3	VSTDIC005	VX043557.D	28 Oct 2024 11:22	JC/MD	Ok,M
4	VSTDIC020	VX043558.D	28 Oct 2024 11:45	JC/MD	Ok,M
5	VSTDIC050	VX043559.D	28 Oct 2024 12:08	JC/MD	Ok,M
6	VSTDIC100	VX043560.D	28 Oct 2024 12:31	JC/MD	Ok,M
7	VSTDIC150	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

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX110724

Review By	Mahesh Dadoda	Review On	11/8/2024 2:39:29 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/8/2024 2:42:03 PM		
SubDirectory	VX110724	HP Acquire Method	MSVOA_X	HP Processing Method	82X102824W.M
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131334			
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard		VP131337,VP131338			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043725.D	07 Nov 2024 10:18	JC/MD	Ok
2	VSTDCCC050	VX043726.D	07 Nov 2024 10:46	JC/MD	Ok,M
3	VX1107MBL01	VX043727.D	07 Nov 2024 11:29	JC/MD	Ok
4	VX1107WBL01	VX043728.D	07 Nov 2024 11:53	JC/MD	Ok
5	VX1107WBS01	VX043729.D	07 Nov 2024 12:19	JC/MD	Ok,M
6	VX1107WBSD01	VX043730.D	07 Nov 2024 12:42	JC/MD	Ok,M
7	VIBLK	VX043731.D	07 Nov 2024 13:10	JC/MD	Ok
8	PB164695TB	VX043732.D	07 Nov 2024 13:33	JC/MD	ReRun
9	P4718-03	VX043733.D	07 Nov 2024 13:56	JC/MD	Ok
10	P4719-03	VX043734.D	07 Nov 2024 14:19	JC/MD	ReRun
11	P4720-05	VX043735.D	07 Nov 2024 14:43	JC/MD	ReRun
12	P4722-02	VX043736.D	07 Nov 2024 15:06	JC/MD	ReRun
13	P4722-07	VX043737.D	07 Nov 2024 15:29	JC/MD	ReRun
14	P4722-12	VX043738.D	07 Nov 2024 15:52	JC/MD	ReRun
15	P4722-16	VX043739.D	07 Nov 2024 16:16	JC/MD	ReRun
16	P4722-18	VX043740.D	07 Nov 2024 16:39	JC/MD	ReRun
17	P4722-20	VX043741.D	07 Nov 2024 17:02	JC/MD	ReRun
18	P4732-05	VX043742.D	07 Nov 2024 17:25	JC/MD	ReRun
19	P4738-02	VX043743.D	07 Nov 2024 17:49	JC/MD	ReRun
20	P4739-04	VX043744.D	07 Nov 2024 18:12	JC/MD	ReRun
21	P4739-08	VX043745.D	07 Nov 2024 18:35	JC/MD	ReRun

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX110724

Review By	Mahesh Dadoda	Review On	11/8/2024 2:39:29 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/8/2024 2:42:03 PM		
SubDirectory	VX110724	HP Acquire Method	MSVOA_X	HP Processing Method	82X102824W.M
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131334			
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard		VP131337,VP131338			

22	P4739-12	VX043746.D	07 Nov 2024 18:58	JC/MD	ReRun
23	P4739-16	VX043747.D	07 Nov 2024 19:21	JC/MD	Ok
24	VSTDCCC050	VX043748.D	07 Nov 2024 19:45	JC/MD	Ok,M

M : Manual Integration

A
B
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K

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch 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	VSTDIC001	VSTDIC001	VX043556.D	28 Oct 2024 10:59	Method pass	JC/MD	Ok,M
3	VSTDIC005	VSTDIC005	VX043557.D	28 Oct 2024 11:22	8260D	JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX043558.D	28 Oct 2024 11:45		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX043559.D	28 Oct 2024 12:08		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX043560.D	28 Oct 2024 12:31		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX110724

Review By	Mahesh Dadoda	Review On	11/8/2024 2:39:29 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/8/2024 2:42:03 PM		
SubDirectory	VX110724	HP Acquire Method	MSVOA_X	HP Processing Method	82X102824W.M
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131334			
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard		VP131337,VP131338			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043725.D	07 Nov 2024 10:18		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX043726.D	07 Nov 2024 10:46		JC/MD	Ok,M
3	VX1107MBL01	VX1107MBL01	VX043727.D	07 Nov 2024 11:29		JC/MD	Ok
4	VX1107WBL01	VX1107WBL01	VX043728.D	07 Nov 2024 11:53		JC/MD	Ok
5	VX1107WBS01	VX1107WBS01	VX043729.D	07 Nov 2024 12:19		JC/MD	Ok,M
6	VX1107WBSD01	VX1107WBSD01	VX043730.D	07 Nov 2024 12:42	BSD high for com #40	JC/MD	Ok,M
7	VIBLK	VIBLK	VX043731.D	07 Nov 2024 13:10		JC/MD	Ok
8	PB164695TB	PB164695TB	VX043732.D	07 Nov 2024 13:33	Surrogate fail,pH#5.0 A	JC/MD	ReRun
9	P4718-03	WB-307-SB02	VX043733.D	07 Nov 2024 13:56	,pH#6.0 A	JC/MD	Ok
10	P4719-03	BAYAVE-STOCKPILE	VX043734.D	07 Nov 2024 14:19	Surrogate fail,pH#5.0 A	JC/MD	ReRun
11	P4720-05	JC-701-COMP-01	VX043735.D	07 Nov 2024 14:43	Surrogate fail,pH#5.0 A	JC/MD	ReRun
12	P4722-02	WC-1(3.5)	VX043736.D	07 Nov 2024 15:06	Surrogate fail,pH#7.0 A	JC/MD	ReRun
13	P4722-07	WC-2(4)	VX043737.D	07 Nov 2024 15:29	Surrogate fail,pH#5.0 A	JC/MD	ReRun
14	P4722-12	WC-3(3)	VX043738.D	07 Nov 2024 15:52	Surrogate fail,pH#7.0 A	JC/MD	ReRun
15	P4722-16	WC-1(5.5)	VX043739.D	07 Nov 2024 16:16	Surrogate fail,pH#7.0 A	JC/MD	ReRun
16	P4722-18	WC-2(2)	VX043740.D	07 Nov 2024 16:39	Surrogate fail,pH#7.0 A	JC/MD	ReRun
17	P4722-20	WC-3(5)	VX043741.D	07 Nov 2024 17:02	Surrogate fail,pH#6.0 A	JC/MD	ReRun
18	P4732-05	PPE-Grab	VX043742.D	07 Nov 2024 17:25	Surrogate fail,pH#5.0 A	JC/MD	ReRun

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX110724

Review By	Mahesh Dadoda	Review On	11/8/2024 2:39:29 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/8/2024 2:42:03 PM		
SubDirectory	VX110724	HP Acquire Method	MSVOA_X	HP Processing Method	82X102824W.M
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131334			
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard		VP131337,VP131338			

19	P4738-02	72-12018	VX043743.D	07 Nov 2024 17:49	Surrogate fail,pH#5.0 A	JC/MD	ReRun
20	P4739-04	TP-14	VX043744.D	07 Nov 2024 18:12	Surrogate fail,pH#5.0 A	JC/MD	ReRun
21	P4739-08	BP-G2	VX043745.D	07 Nov 2024 18:35	BSD high; Surrogate fail,pH#5.0 A	JC/MD	ReRun
22	P4739-12	BP-B2	VX043746.D	07 Nov 2024 18:58	BSD high; Surrogate fail,pH#5.0 A	JC/MD	ReRun
23	P4739-16	TP-11	VX043747.D	07 Nov 2024 19:21	,pH#7.0 A	JC/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VX043748.D	07 Nov 2024 19:45		JC/MD	Ok,M

M : Manual Integration



LAB CHRONICLE

OrderID:	P4718	OrderDate:	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	Location:	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-03	WB-307-SB02	TCLP	TCLP VOA	8260D	11/04/24		11/07/24	11/05/24

SOP ID : M1311-TCLP-15
SDG No : N/A
Weigh By : JP
Balance ID : WC SC-4
pH Meter ID : WC PH METER-1
Extraction By : JP
Filter By : JP
Pipette ID : WC
Tumbler ID : ZHE-1 / ZHE-2
TCLP Filter ID : 50223706

Start Prep Date : 11/06/2024 **Time :** 16:45
End Prep Date : 11/07/2024 **Time :** 09:35
Combination Ratio : 20
ZHE Cleaning Batch : N/A
Initial Room Temperature: 24 °C
Final Room Temperature: 23 °C
TCLP Technician Signature : *TO*
Supervisor By : *ST*

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

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

Extraction Conformance/Non-Conformance Comments:

TUMBLER ZHE-1 / ZHE-2 checked, 30 rpm. ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 minutes of tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 11:00	<i>TO</i> <i>100 Room</i>	<i>ST</i> <i>100 Lab</i>
	Preparation Group	Analysis Group

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4718-03	WB-307-SB02	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4719-03	BAYAVE-STOCKPILE	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4720-05	JC-701-COMP-01	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-02	WC-1(3.5)	04	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-07	WC-2(4)	05	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-12	WC-3(3)	06	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-16	WC-1(5.5)	07	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-18	WC-2(2)	08	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-20	WC-3(5)	09	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4732-05	PPE-Grab	10	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4738-02	72-12018	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-04	TP-14	12	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-08	BP-G2	13	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-12	BP-B2	14	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-16	TP-11	15	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
PB164695TB	LEB695	16	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4718-03	WB-307-SB02	N/A	N/A	N/A	N/A	100	N/A
P4719-03	BAYAVE-STOCKPILE	N/A	N/A	N/A	N/A	100	N/A
P4720-05	JC-701-COMP-01	N/A	N/A	N/A	N/A	100	N/A
P4722-02	WC-1(3.5)	N/A	N/A	N/A	N/A	100	N/A
P4722-07	WC-2(4)	N/A	N/A	N/A	N/A	100	N/A
P4722-12	WC-3(3)	N/A	N/A	N/A	N/A	100	N/A
P4722-16	WC-1(5.5)	N/A	N/A	N/A	N/A	100	N/A
P4722-18	WC-2(2)	N/A	N/A	N/A	N/A	100	N/A
P4722-20	WC-3(5)	N/A	N/A	N/A	N/A	100	N/A
P4732-05	PPE-Grab	N/A	N/A	N/A	N/A	100	N/A
P4738-02	72-12018	N/A	N/A	N/A	N/A	100	N/A
P4739-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
P4739-08	BP-G2	N/A	N/A	N/A	N/A	100	N/A
P4739-12	BP-B2	N/A	N/A	N/A	N/A	100	N/A
P4739-16	TP-11	N/A	N/A	N/A	N/A	100	N/A
PB164695TB	LEB695	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tcip zhe p4719 WorkList ID : 185150 Department : TCLP Extraction Date : 11-06-2024 07:55:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4718-03	WB-307-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L21	11/04/2024	1311 ZHE
P4719-03	BAYAVE-STOCKPILE	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K21	11/05/2024	1311 ZHE
P4720-05	JC-701-COMP-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K31	11/05/2024	1311 ZHE
P4722-02	WC-1(3.5)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-07	WC-2(4)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-12	WC-3(3)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-16	WC-1(5.5)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-18	WC-2(2)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-20	WC-3(5)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4732-05	PPE-Grab	Solid	TCLP ZHE Extraction	Cool 4 deg C	FUR101	L11	11/06/2024	1311 ZHE
P4738-02	72-12018	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L23	11/06/2024	1311 ZHE
P4739-04	TP-14	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE
P4739-08	BP-G2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE
P4739-12	BP-B2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE
P4739-16	TP-11	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE

Date/Time 11/06/24 16:10
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 11/06/24 16:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]