

Hit Summary Sheet SW-846

SDG No.: Q1744
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q1744-02	B-158-SB01 B-158-SB01	TCLP	2-Butanone	5.70	J	0.98	25.0	ug/L
			Total Voc :	5.70				
			Total Concentration:	5.70				
Client ID: Q1744-04	B-158-SB02 B-158-SB02	TCLP	2-Butanone	15.6	J	0.98	25.0	ug/L
			Total Voc :	15.6				
			Total Concentration:	15.6				



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	04/05/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/07/25	
Client Sample ID:	B-158-SB01			SDG No.:	Q1744	
Lab Sample ID:	Q1744-02			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
VX045660.D	1		04/08/25 18:17	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	5.70	J	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		70 (74) - 130 (125)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	51.6		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	64700	5.544			
540-36-3	1,4-Difluorobenzene	129000	6.757			
3114-55-4	Chlorobenzene-d5	120000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	47000	12.018			

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:	04/05/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/07/25	
Client Sample ID:	B-158-SB02			SDG No.:	Q1744	
Lab Sample ID:	Q1744-04			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045661.D	1		04/08/25 18:40	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	15.6	J	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.7		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	51.9		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	63900	5.544			
540-36-3	1,4-Difluorobenzene	127000	6.757			
3114-55-4	Chlorobenzene-d5	122000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51100	12.018			

U = Not Detected

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A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1744-02	B-158-SB01	1,2-Dichloroethane-d4	50	55.1	110	70 (74)	130 (125)
		Dibromofluoromethane	50	51.4	103	70 (75)	130 (124)
		Toluene-d8	50	51.6	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.1	100	70 (77)	130 (121)
Q1744-04	B-158-SB02	1,2-Dichloroethane-d4	50	54.7	109	70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	103	70 (75)	130 (124)
		Toluene-d8	50	51.9	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.0	106	70 (77)	130 (121)

Surrogate Summary

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VX0408WBL01	VX0408WBL01	1,2-Dichloroethane-d4	50	55.5	111	70 (74)	130 (125)
		Dibromofluoromethane	50	52.7	105	70 (75)	130 (124)
		Toluene-d8	50	51.4	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.9	104	70 (77)	130 (121)
VX0408WBS01	VX0408WBS01	1,2-Dichloroethane-d4	50	47.7	95	70 (74)	130 (125)
		Dibromofluoromethane	50	47.4	95	70 (75)	130 (124)
		Toluene-d8	50	47.7	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.7	97	70 (77)	130 (121)
VX0408WBSD0	VX0408WBSD01	1,2-Dichloroethane-d4	50	48.2	96	70 (74)	130 (125)
		Dibromofluoromethane	50	47.7	95	70 (75)	130 (124)
		Toluene-d8	50	47.7	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.6	99	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045638.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0408WBS01	Vinyl chloride	20	17.3	ug/L	86			70 (65)	130 (117)	
	1,1-Dichloroethene	20	17.2	ug/L	86			70 (74)	130 (110)	
	2-Butanone	100	92.0	ug/L	92			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.5	ug/L	93			70 (77)	130 (113)	
	Chloroform	20	17.6	ug/L	88			70 (79)	130 (113)	
	Benzene	20	17.6	ug/L	88			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.2	ug/L	91			70 (80)	130 (115)	
	Trichloroethene	20	17.6	ug/L	88			70 (77)	130 (113)	
	Tetrachloroethene	20	17.8	ug/L	89			70 (67)	130 (123)	
	Chlorobenzene	20	17.9	ug/L	90			70 (82)	130 (109)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045639.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0408WBSD01	Vinyl chloride	20	17.6	ug/L	88	2		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	18.1	ug/L	91	6		70 (74)	130 (110)	20 (20)
	2-Butanone	100	97.9	ug/L	98	6		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.5	ug/L	98	5		70 (77)	130 (113)	20 (20)
	Chloroform	20	18.9	ug/L	95	8		70 (79)	130 (113)	20 (20)
	Benzene	20	19.0	ug/L	95	8		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.2	ug/L	101	10		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	18.6	ug/L	93	6		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	18.3	ug/L	92	3		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	18.8	ug/L	94	4		70 (82)	130 (109)	20 (20)

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0408WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1744

SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: VX045637.D

Lab Sample ID: VX0408WBL01

Date Analyzed: 04/08/2025

Time Analyzed: 09:12

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
VX0408WBS01	VX0408WBS01	VX045638.D	04/08/2025
VX0408WBSD01	VX0408WBSD01	VX045639.D	04/08/2025
B-158-SB01	Q1744-02	VX045660.D	04/08/2025
B-158-SB02	Q1744-04	VX045661.D	04/08/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744
Lab File ID: VX045524.D BFB Injection Date: 04/01/2025
Instrument ID: MSVOA_X BFB Injection Time: 16:15
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	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX045525.D	04/01/2025	17:06
VSTDIC005	VSTDIC005	VX045526.D	04/01/2025	17:29
VSTDIC020	VSTDIC020	VX045527.D	04/01/2025	17:52
VSTDIC050	VSTDIC050	VX045528.D	04/01/2025	18:15
VSTDIC100	VSTDIC100	VX045529.D	04/01/2025	18:38
VSTDIC150	VSTDIC150	VX045530.D	04/01/2025	19:02

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744
Lab File ID: VX045634.D BFB Injection Date: 04/08/2025
Instrument ID: MSVOA_X BFB Injection Time: 07:49
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	22.9
75	30.0 - 60.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.9
175	5.0 - 9.0% of mass 174	5.2 (7.7) 1
176	95.0 - 101.0% of mass 174	63.8 (95.3) 1
177	5.0 - 9.0% of mass 176	4.8 (7.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045635.D	04/08/2025	08:24
VX0408WBL01	VX0408WBL01	VX045637.D	04/08/2025	09:12
VX0408WBS01	VX0408WBS01	VX045638.D	04/08/2025	09:43
VX0408WBSD01	VX0408WBSD01	VX045639.D	04/08/2025	10:08
B-158-SB01	Q1744-02	VX045660.D	04/08/2025	18:17
B-158-SB02	Q1744-04	VX045661.D	04/08/2025	18:40

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744
Lab File ID: VX045635.D Date Analyzed: 04/08/2025
Instrument ID: MSVOA_X Time Analyzed: 08:24
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	102556	5.54	175513	6.75	152677	10.05
UPPER LIMIT	205112	6.038	351026	7.251	305354	10.549
LOWER LIMIT	51278	5.038	87756.5	6.251	76338.5	9.549
EPA SAMPLE NO.						
B-158-SB01	64698	5.54	128925	6.76	119671	10.05
B-158-SB02	63944	5.54	127369	6.76	121646	10.05
VX0408WBL01	66539	5.55	129800	6.76	123174	10.05
VX0408WBS01	106087	5.54	183473	6.75	162323	10.05
VX0408WBSD01	81435	5.54	140832	6.76	127042	10.05

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.: Q1744 SAS No.: Q1744 SDG NO.: Q1744
 Lab File ID: VX045635.D Date Analyzed: 04/08/2025
 Instrument ID: MSVOA_X Time Analyzed: 08:24
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	73644	12.018				
UPPER LIMIT	147288	12.518				
LOWER LIMIT	36822	11.518				
EPA SAMPLE NO.						
B-158-SB01	47035	12.02				
B-158-SB02	51074	12.02				
VX0408WBL01	51559	12.02				
VX0408WBS01	74710	12.02				
VX0408WBSD01	59865	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 2025	Date Received:	
Client Sample ID:	VX0408WBL01	SDG No.:	Q1744
Lab Sample ID:	VX0408WBL01	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
VX045637.D	1		04/08/25 09:12	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		70 (74) - 130 (125)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
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A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBS01	SDG No.:	Q1744
Lab Sample ID:	VX0408WBS01	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
VX045638.D	1		04/08/25 09:43	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.3		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.2		0.23	1.00	ug/L
78-93-3	2-Butanone	92.0		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.25	1.00	ug/L
67-66-3	Chloroform	17.6		0.25	1.00	ug/L
71-43-2	Benzene	17.6		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.2		0.22	1.00	ug/L
79-01-6	Trichloroethene	17.6		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	17.8		0.23	1.00	ug/L
108-90-7	Chlorobenzene	17.9		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.7		70 (74) - 130 (125)	95%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	106000	5.538			
540-36-3	1,4-Difluorobenzene	183000	6.751			
3114-55-4	Chlorobenzene-d5	162000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	74700	12.018			

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 2025	Date Received:	
Client Sample ID:	VX0408WBSD01	SDG No.:	Q1744
Lab Sample ID:	VX0408WBSD01	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
VX045639.D	1		04/08/25 10:08	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.6		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.23	1.00	ug/L
78-93-3	2-Butanone	97.9		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	1.00	ug/L
67-66-3	Chloroform	18.9		0.25	1.00	ug/L
71-43-2	Benzene	19.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.2		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.6		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	18.3		0.23	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.2		70 (74) - 130 (125)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	81400	5.544			
540-36-3	1,4-Difluorobenzene	141000	6.757			
3114-55-4	Chlorobenzene-d5	127000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	59900	12.018			

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02

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

LAB FILE ID:		RRF001 = VX045525.D		RRF005 = VX045526.D		RRF020 = VX045527.D			
		RRF050 = VX045528.D		RRF100 = VX045529.D		RRF150 = VX045530.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4	
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5	
2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.5	
Carbon Tetrachloride	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.5	
Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.6	
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8	
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7	
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7	
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5	
Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.8	
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9	
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5	
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5	
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5	

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: MSVOA_X Calibration Date/Time: 04/08/2025 08:24

Lab File ID: VX045635.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.703	0.685		-2.56	20
1,1-Dichloroethene	0.600	0.591		-1.5	20
2-Butanone	0.550	0.562		2.18	20
Carbon Tetrachloride	0.518	0.541		4.44	20
Chloroform	1.306	1.256		-3.83	20
Benzene	1.463	1.424		-2.67	20
1,2-Dichloroethane	0.604	0.606		0.33	20
Trichloroethene	0.348	0.339		-2.59	20
Tetrachloroethene	0.353	0.350		-0.85	20
Chlorobenzene	1.068	1.057	0.3	-1.03	20
1,2-Dichloroethane-d4	0.914	0.864		-5.47	20
Dibromofluoromethane	0.355	0.347		-2.25	20
Toluene-d8	1.238	1.189		-3.96	20
4-Bromofluorobenzene	0.451	0.456		1.11	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\VX040825\
 Data File : VX045660.D
 Acq On : 08 Apr 2025 18:17
 Operator : JC/MD
 Sample : Q1744-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-158-SB01

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Apr 09 01:43:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

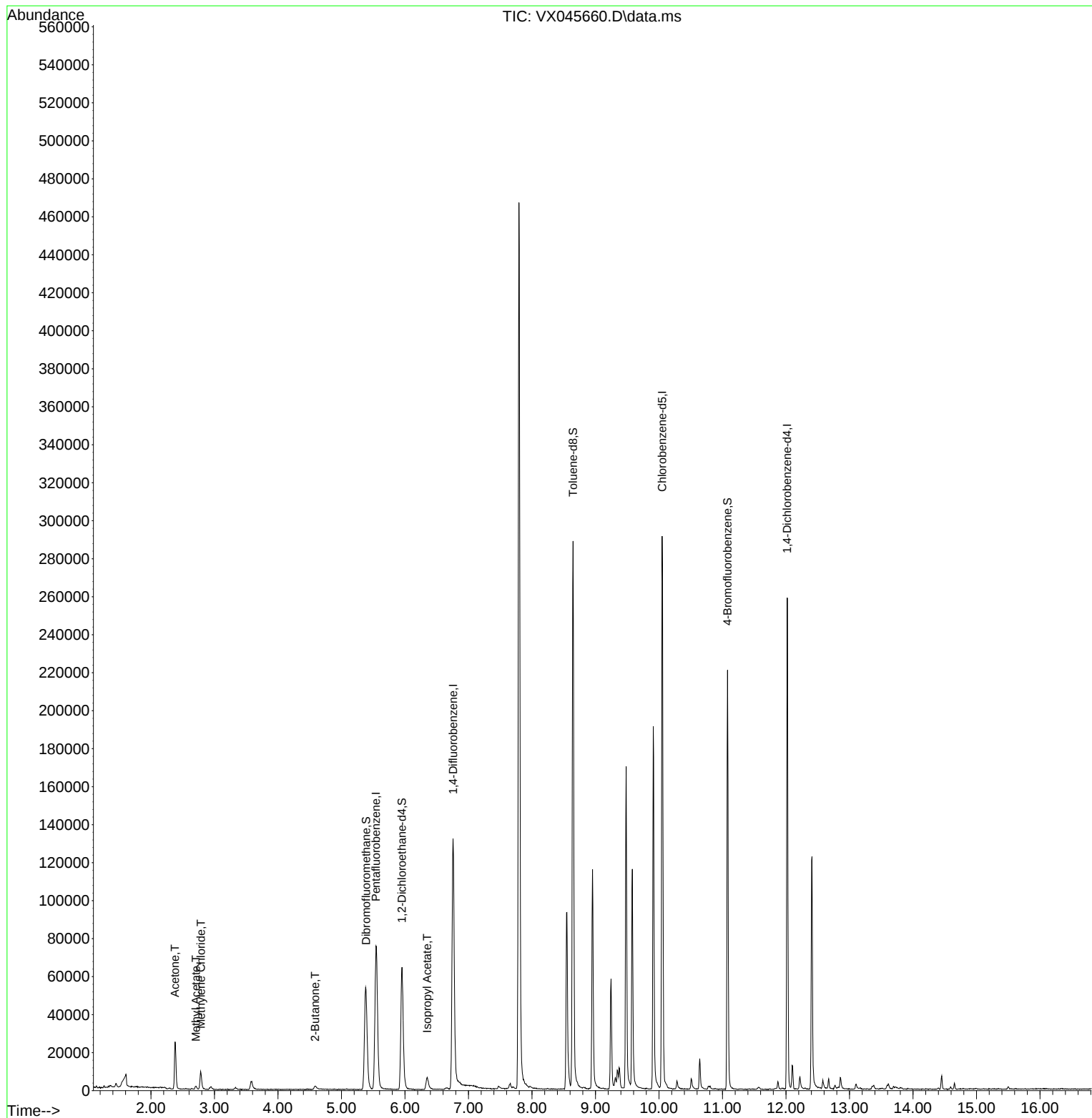
Internal Standards						
1) Pentafluorobenzene	5.544	168	64698	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	128925	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	119671	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	47035	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65192	55.100	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.200%			
35) Dibromofluoromethane	5.385	113	46981	51.361	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.720%			
50) Toluene-d8	8.647	98	164875	51.640	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.280%			
62) 4-Bromofluorobenzene	11.079	95	58226	50.067	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.140%			
Target Compounds						
					Qvalue	
16) Acetone	2.380	43	27771	57.161	ug/l	96
18) Methyl Acetate	2.709	43	2374	2.122	ug/l #	89
20) Methylene Chloride	2.788	84	4294	4.721	ug/l #	88
25) 2-Butanone	4.587	43	4073	5.727	ug/l #	87
43) Isopropyl Acetate	6.349	43	9886	4.191	ug/l	99

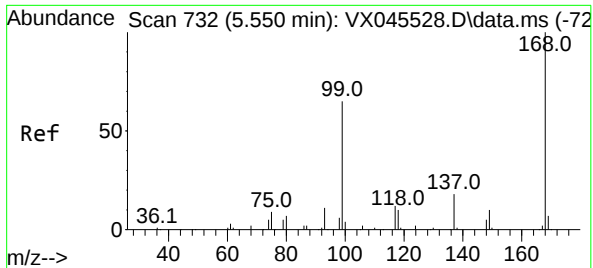
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045660.D
Acq On : 08 Apr 2025 18:17
Operator : JC/MD
Sample : Q1744-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB01

Quant Time: Apr 09 01:43:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX045660.D

Acq: 08 Apr 2025 18:17

Instrument :

MSVOA_X

ClientSampleId :

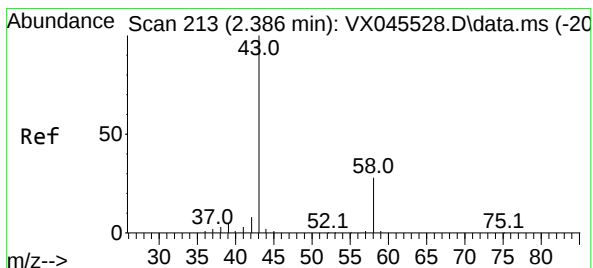
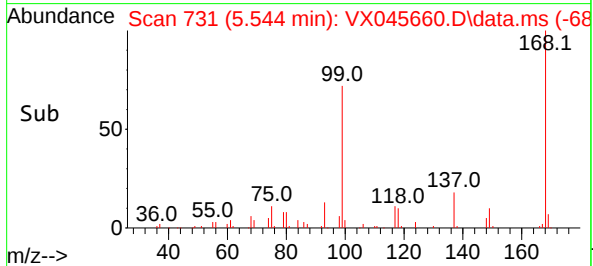
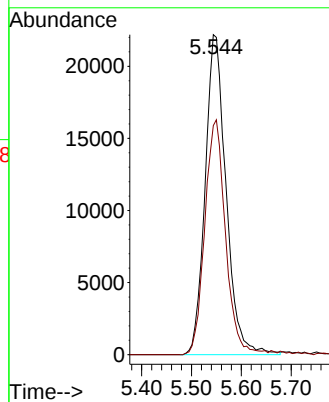
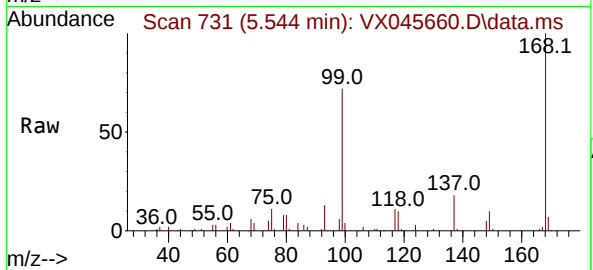
B-158-SB01

Tgt Ion:168 Resp: 64698

Ion Ratio Lower Upper

168 100

99 71.6 52.3 78.5



#16

Acetone

Concen: 57.161 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX045660.D

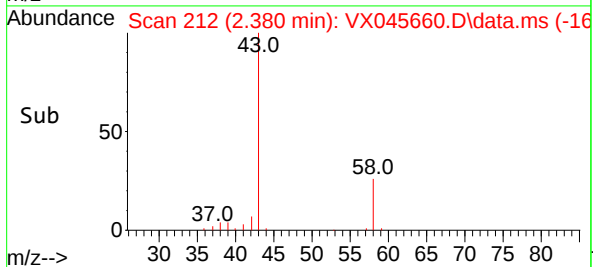
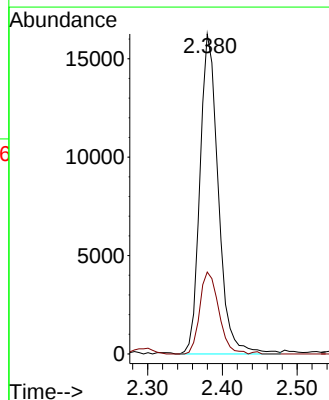
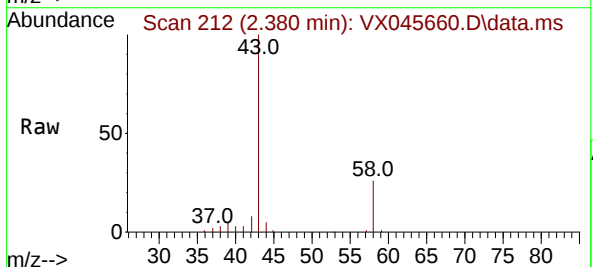
Acq: 08 Apr 2025 18:17

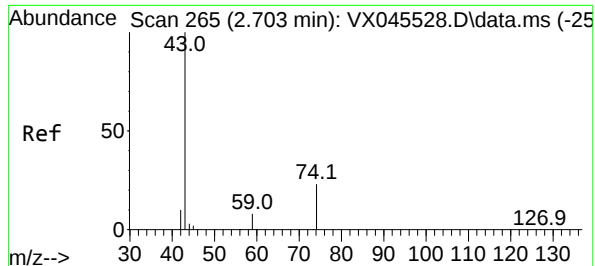
Tgt Ion: 43 Resp: 27771

Ion Ratio Lower Upper

43 100

58 25.6 22.3 33.5





#18

Methyl Acetate

Concen: 2.122 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX045660.D

Acq: 08 Apr 2025 18:17

Instrument :

MSVOA_X

ClientSampleId :

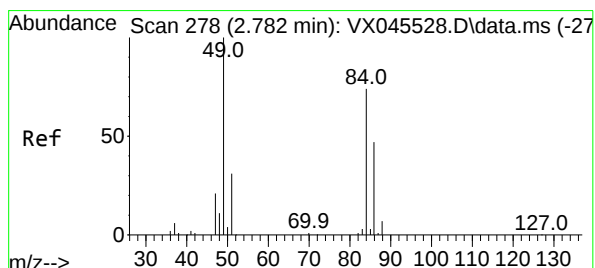
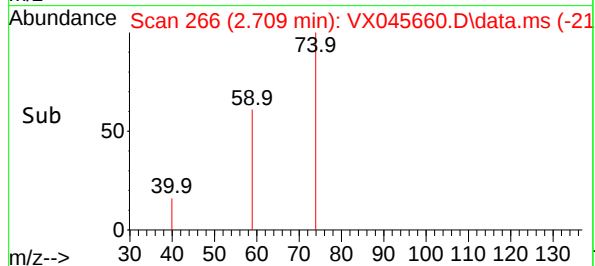
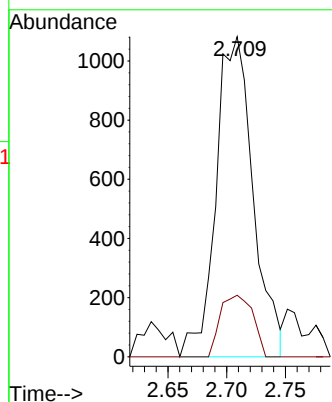
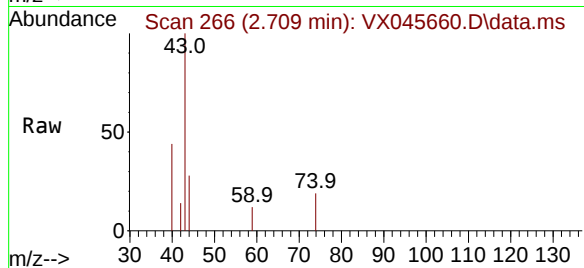
B-158-SB01

Tgt Ion: 43 Resp: 2374

Ion Ratio Lower Upper

43 100

74 16.9 17.5 26.3#



#20

Methylene Chloride

Concen: 4.721 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX045660.D

Acq: 08 Apr 2025 18:17

Tgt Ion: 84 Resp: 4294

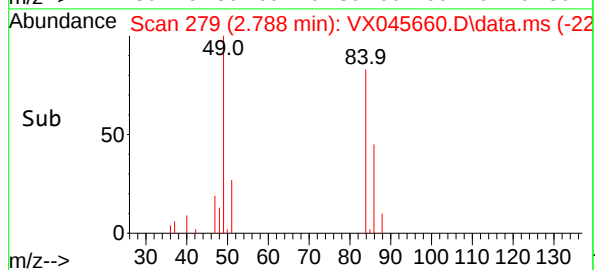
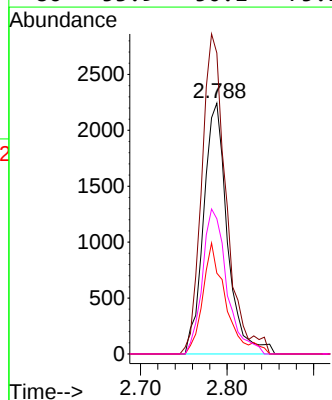
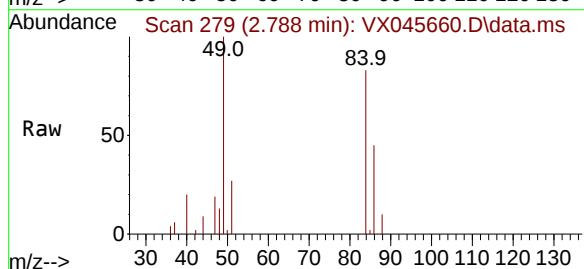
Ion Ratio Lower Upper

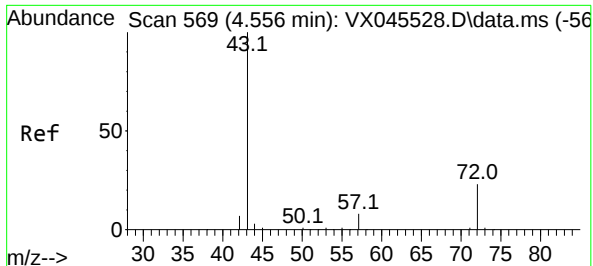
84 100

49 120.1 107.5 161.3

51 32.2 33.0 49.6#

86 53.9 50.1 75.1





#25

2-Butanone

Concen: 5.727 ug/l

RT: 4.587 min Scan# 51

Delta R.T. 0.031 min

Lab File: VX045660.D

Acq: 08 Apr 2025 18:17

Instrument :

MSVOA_X

ClientSampleId :

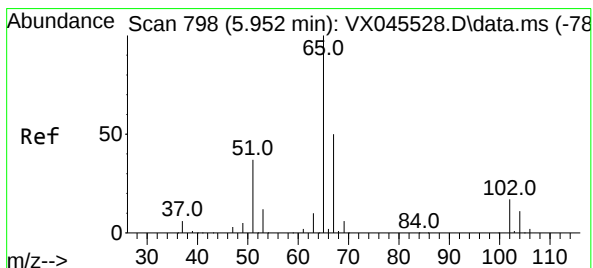
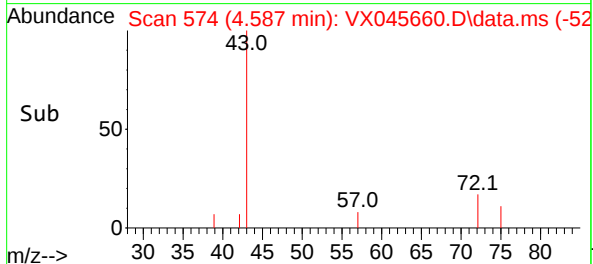
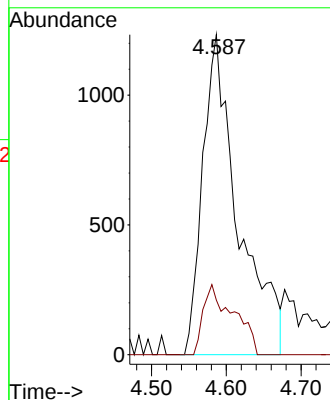
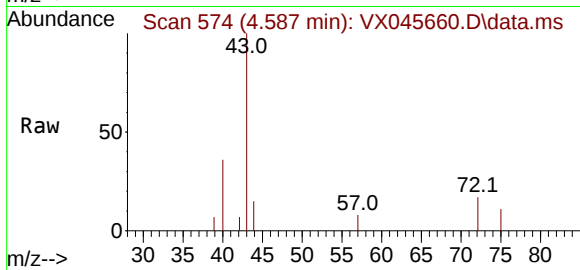
B-158-SB01

Tgt Ion: 43 Resp: 4073

Ion Ratio Lower Upper

43 100

72 17.0 18.6 28.0#



#33

1,2-Dichloroethane-d4

Concen: 55.100 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045660.D

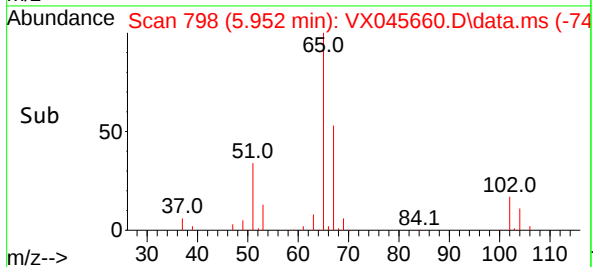
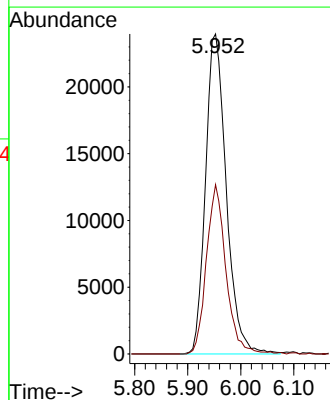
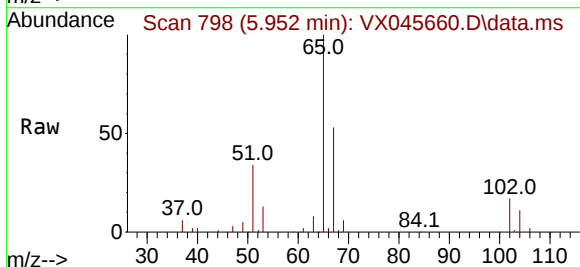
Acq: 08 Apr 2025 18:17

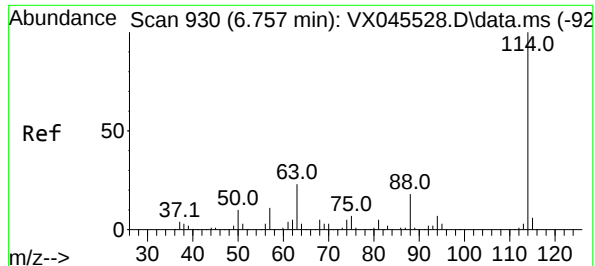
Tgt Ion: 65 Resp: 65192

Ion Ratio Lower Upper

65 100

67 49.9 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045660.D

Acq: 08 Apr 2025 18:17

Instrument :

MSVOA_X

ClientSampleId :

B-158-SB01

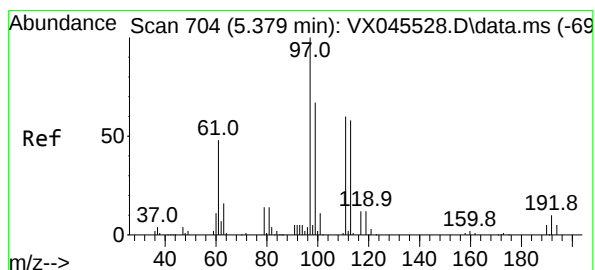
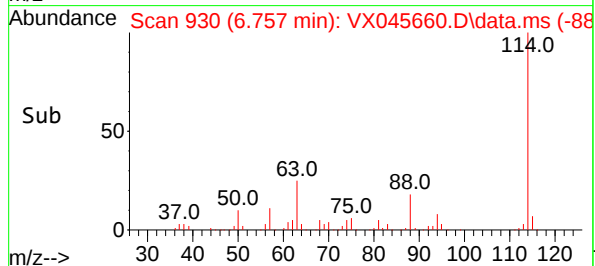
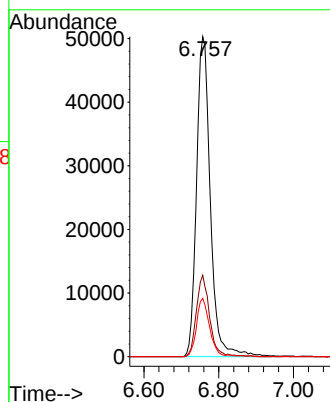
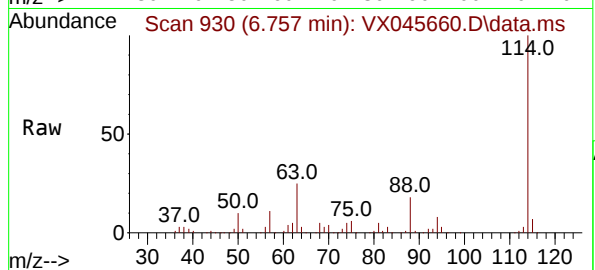
Tgt Ion:114 Resp: 128925

Ion Ratio Lower Upper

114 100

63 25.5 0.0 46.8

88 18.2 0.0 35.4



#35

Dibromofluoromethane

Concen: 51.361 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX045660.D

Acq: 08 Apr 2025 18:17

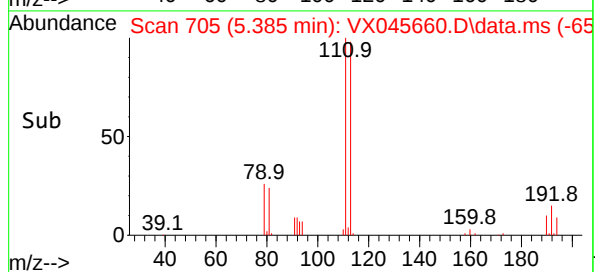
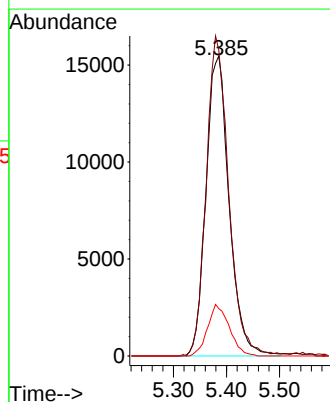
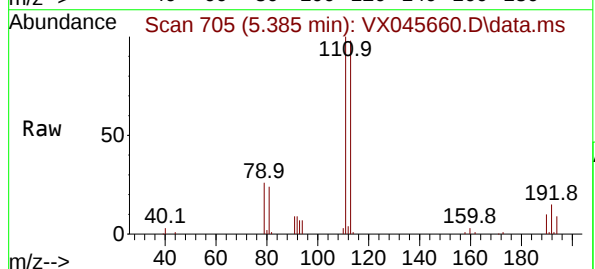
Tgt Ion:113 Resp: 46981

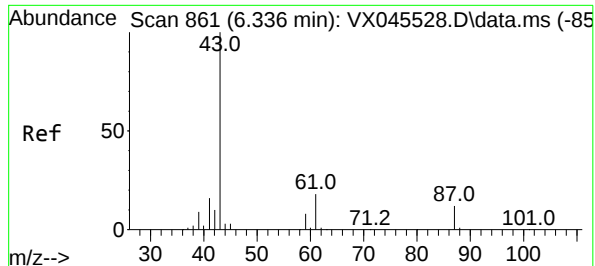
Ion Ratio Lower Upper

113 100

111 103.5 81.8 122.6

192 16.1 13.8 20.6





#43

Isopropyl Acetate

Concen: 4.191 ug/l

RT: 6.349 min Scan# 863

Delta R.T. 0.012 min

Lab File: VX045660.D

Acq: 08 Apr 2025 18:17

Instrument :

MSVOA_X

ClientSampleId :

B-158-SB01

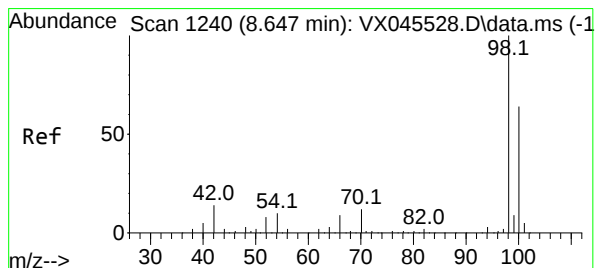
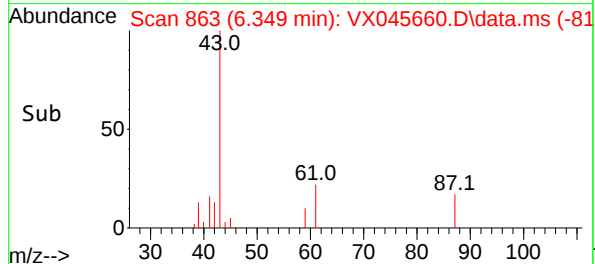
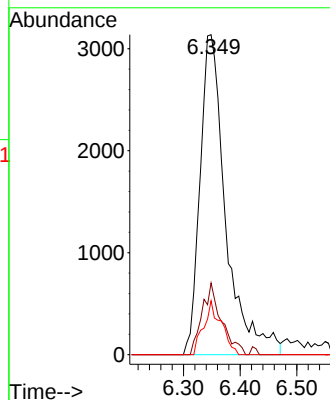
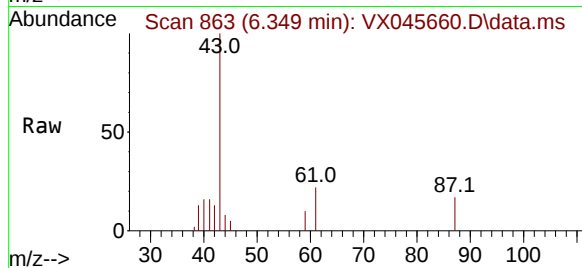
Tgt Ion: 43 Resp: 9886

Ion Ratio Lower Upper

43 100

61 17.0 14.1 21.1

87 11.5 9.2 13.8



#50

Toluene-d8

Concen: 51.640 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX045660.D

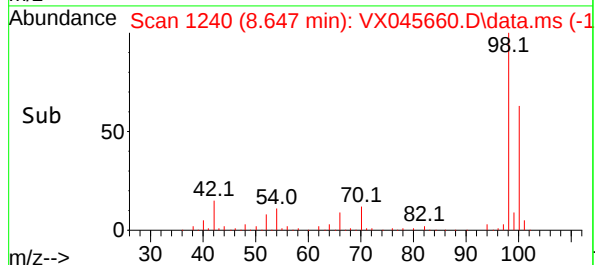
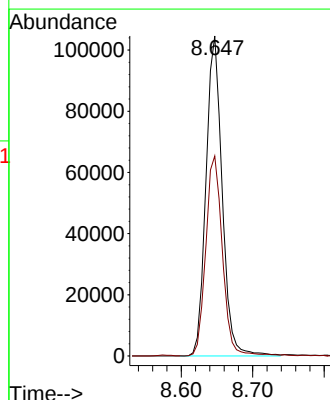
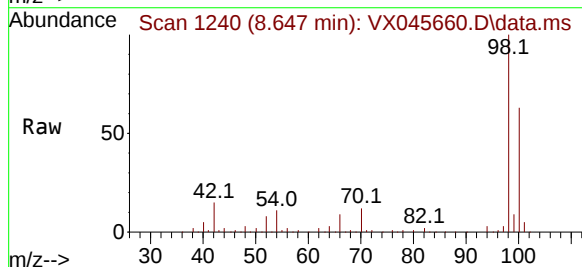
Acq: 08 Apr 2025 18:17

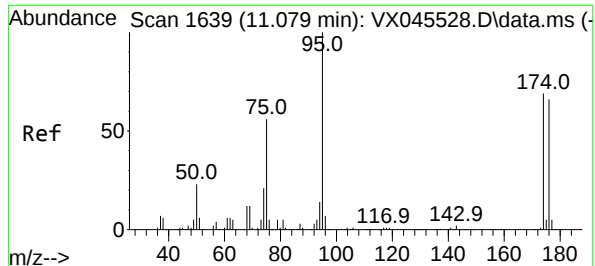
Tgt Ion: 98 Resp: 164875

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.4





#62

4-Bromofluorobenzene

Concen: 50.067 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045660.D

Acq: 08 Apr 2025 18:17

Instrument :

MSVOA_X

ClientSampleId :

B-158-SB01

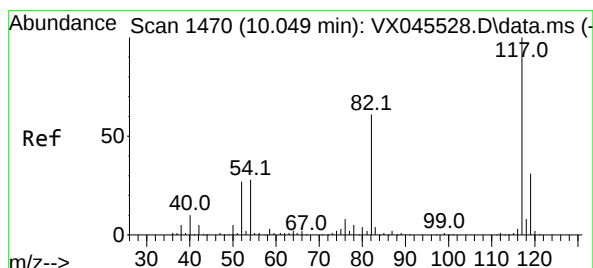
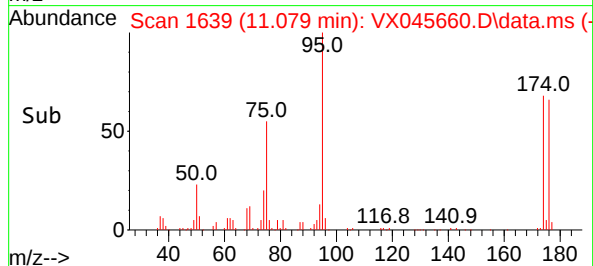
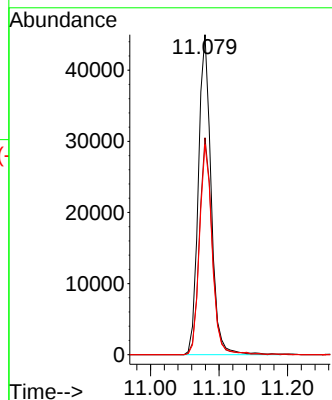
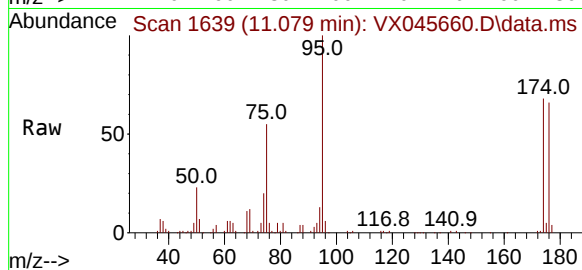
Tgt Ion: 95 Resp: 58226

Ion Ratio Lower Upper

95 100

174 67.4 0.0 135.8

176 65.2 0.0 131.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045660.D

Acq: 08 Apr 2025 18:17

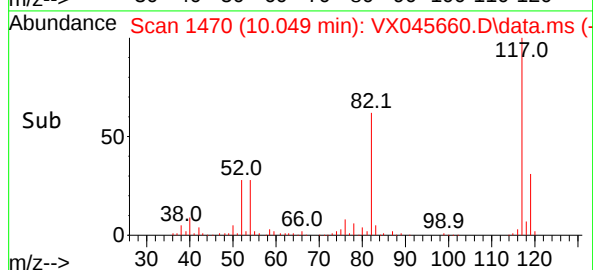
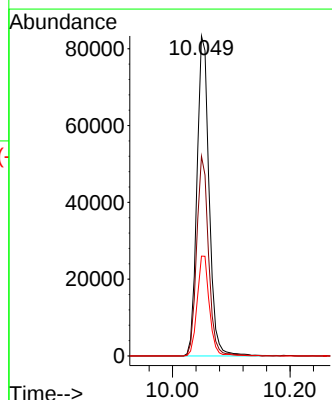
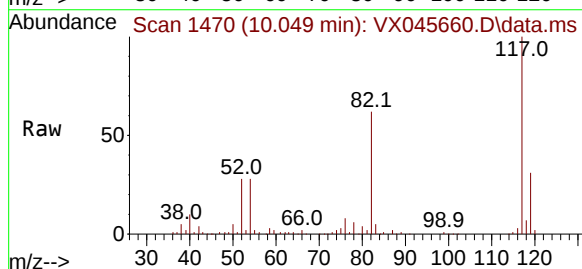
Tgt Ion: 117 Resp: 119671

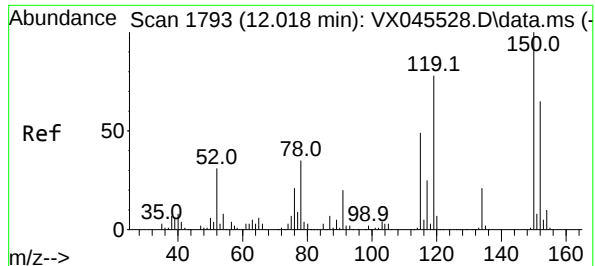
Ion Ratio Lower Upper

117 100

82 62.4 49.2 73.8

119 31.2 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045660.D

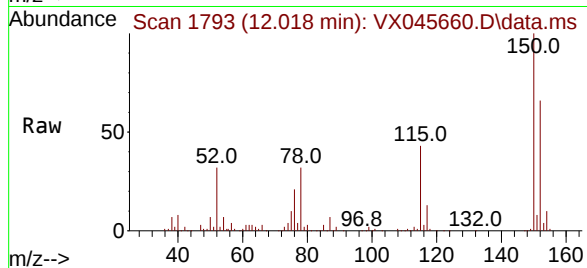
Acq: 08 Apr 2025 18:17

Instrument :

MSVOA_X

ClientSampleId :

B-158-SB01



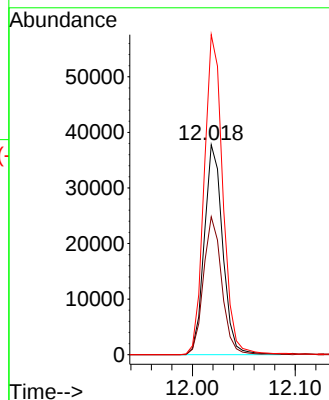
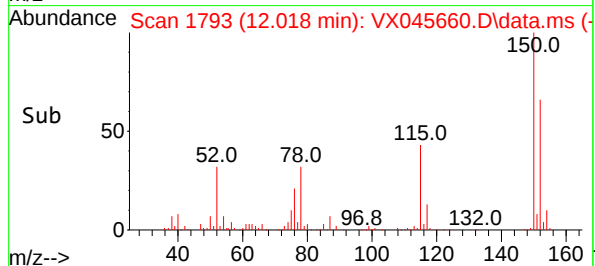
Tgt Ion:152 Resp: 47035

Ion Ratio Lower Upper

152 100

115 65.7 46.9 140.7

150 154.9 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045661.D
 Acq On : 08 Apr 2025 18:40
 Operator : JC/MD
 Sample : Q1744-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-158-SB02

Quant Time: Apr 09 01:44:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

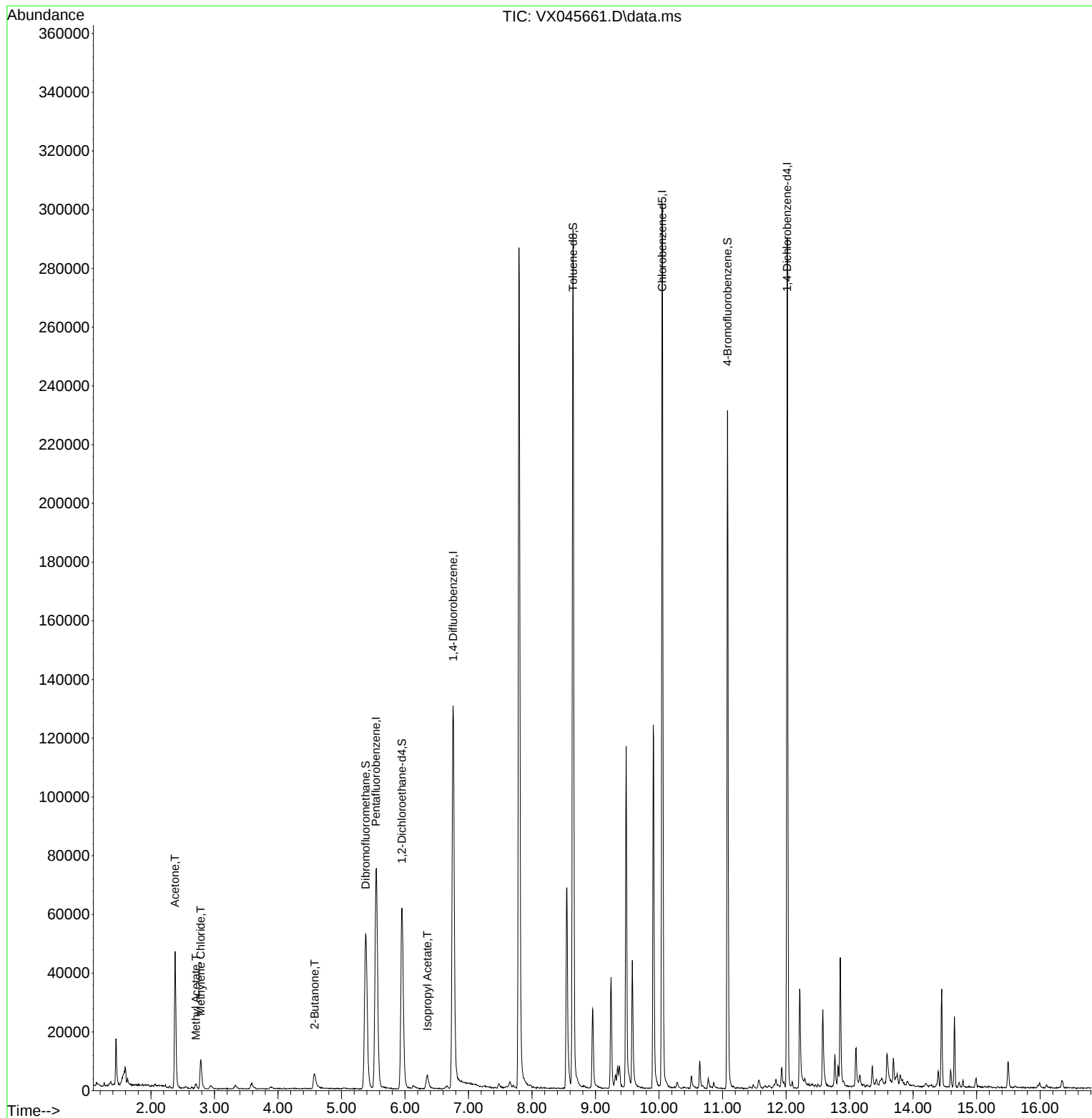
Internal Standards						
1) Pentafluorobenzene	5.544	168	63944	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127369	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	121646	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51074	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63919	54.661	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.320%	
35) Dibromofluoromethane	5.379	113	46324	51.261	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.520%	
50) Toluene-d8	8.647	98	163599	51.867	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.740%	
62) 4-Bromofluorobenzene	11.079	95	60955	53.054	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 106.100%	
Target Compounds						
					Qvalue	
16) Acetone	2.380	43	48261	100.507	ug/l	96
18) Methyl Acetate	2.709	43	2379	2.152	ug/l #	90
20) Methylene Chloride	2.782	84	4803	5.343	ug/l	97
25) 2-Butanone	4.574	43	10995	15.643	ug/l	93
43) Isopropyl Acetate	6.354	43	7289	3.128	ug/l	95

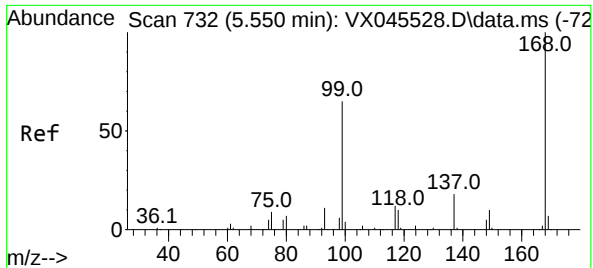
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045661.D
Acq On : 08 Apr 2025 18:40
Operator : JC/MD
Sample : Q1744-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB02

Quant Time: Apr 09 01:44:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX045661.D

Acq: 08 Apr 2025 18:40

Instrument :

MSVOA_X

ClientSampleId :

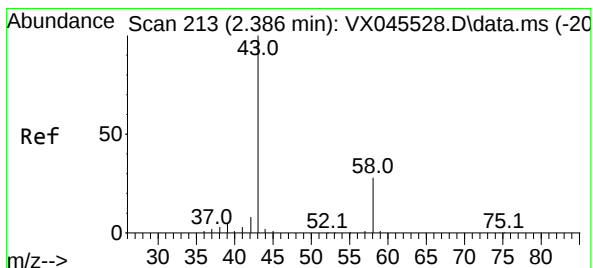
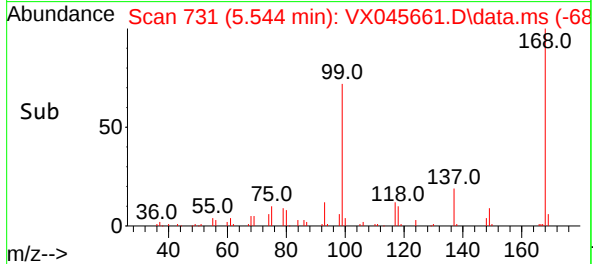
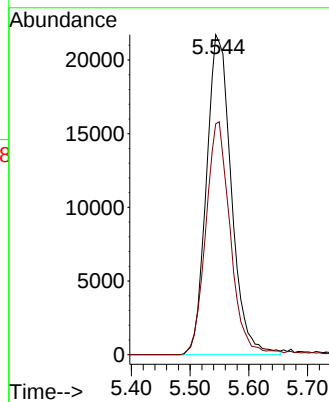
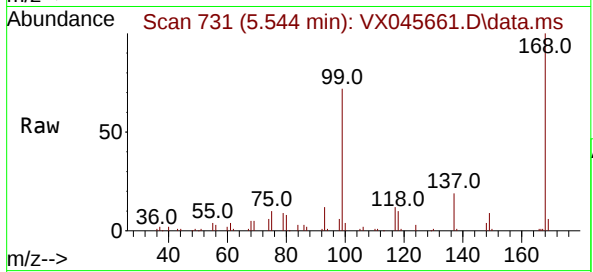
B-158-SB02

Tgt Ion:168 Resp: 63944

Ion Ratio Lower Upper

168 100

99 72.2 52.3 78.5



#16

Acetone

Concen: 100.507 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX045661.D

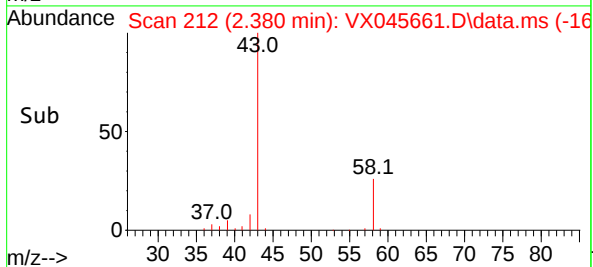
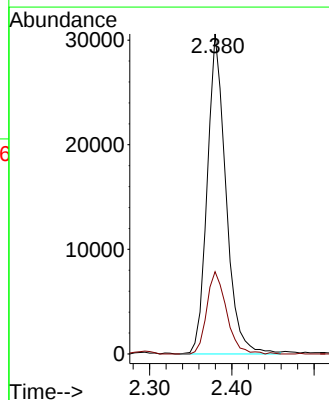
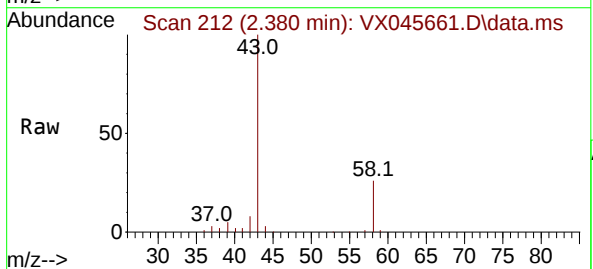
Acq: 08 Apr 2025 18:40

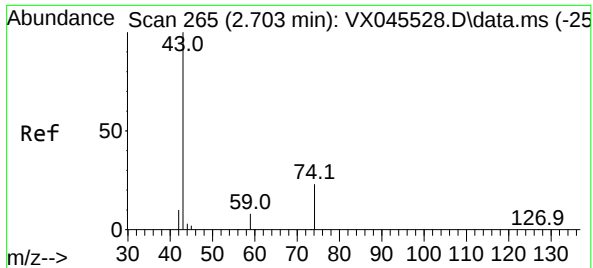
Tgt Ion: 43 Resp: 48261

Ion Ratio Lower Upper

43 100

58 25.7 22.3 33.5





#18

Methyl Acetate

Concen: 2.152 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX045661.D

Acq: 08 Apr 2025 18:40

Instrument :

MSVOA_X

ClientSampleId :

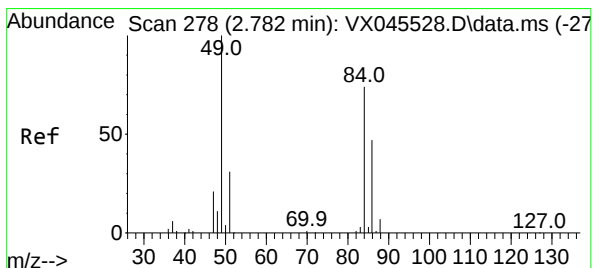
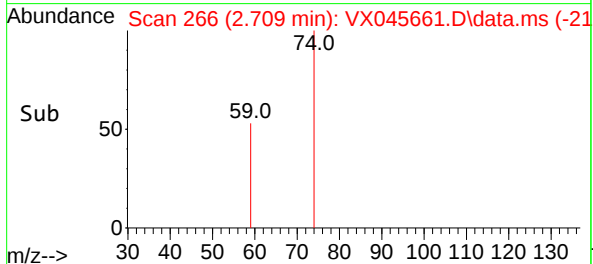
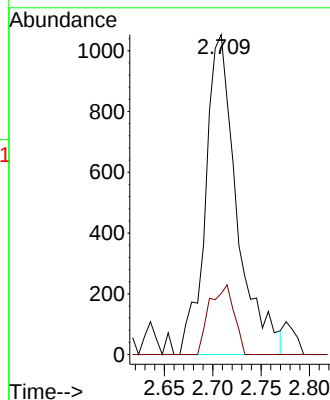
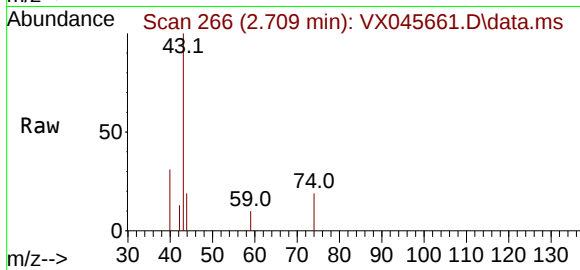
B-158-SB02

Tgt Ion: 43 Resp: 2379

Ion Ratio Lower Upper

43 100

74 17.1 17.5 26.3#



#20

Methylene Chloride

Concen: 5.343 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045661.D

Acq: 08 Apr 2025 18:40

Tgt Ion: 84 Resp: 4803

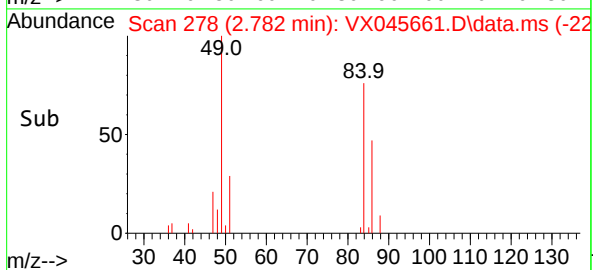
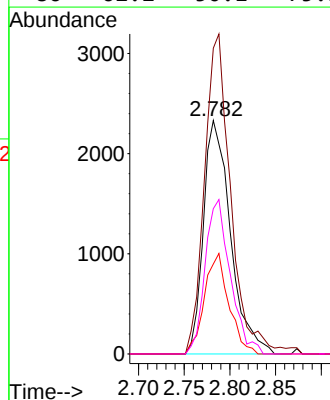
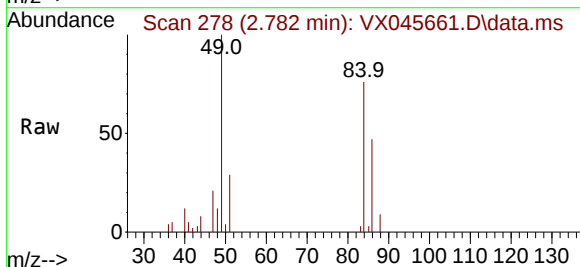
Ion Ratio Lower Upper

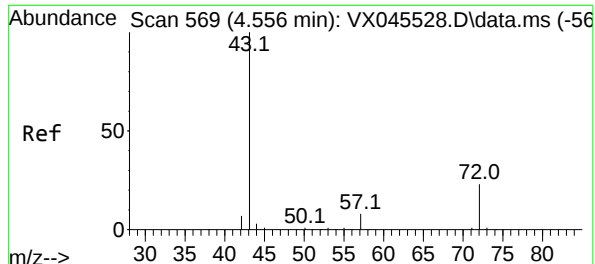
84 100

49 131.0 107.5 161.3

51 38.5 33.0 49.6

86 62.2 50.1 75.1





#25

2-Butanone

Concen: 15.643 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX045661.D

Acq: 08 Apr 2025 18:40

Instrument :

MSVOA_X

ClientSampleId :

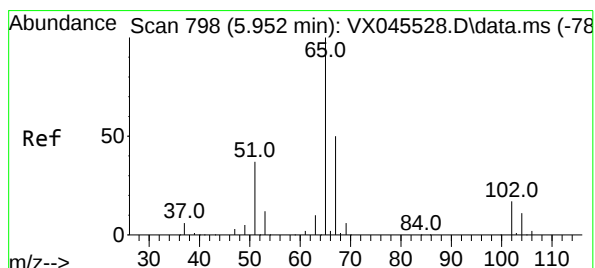
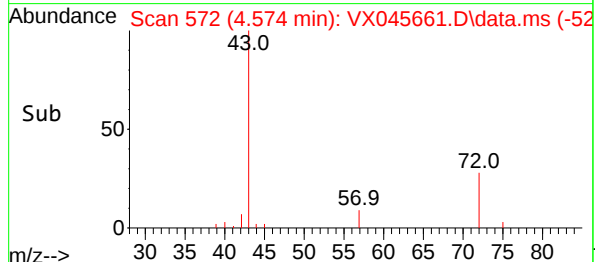
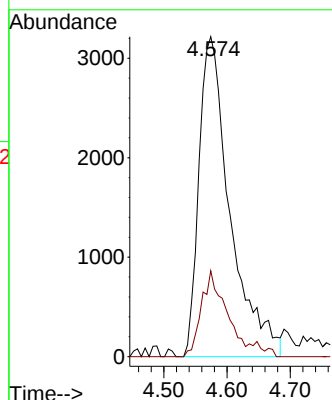
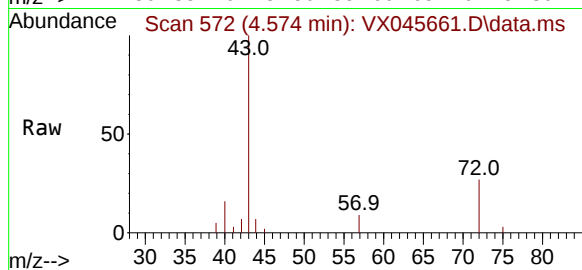
B-158-SB02

Tgt Ion: 43 Resp: 10995

Ion Ratio Lower Upper

43 100

72 26.8 18.6 28.0



#33

1,2-Dichloroethane-d4

Concen: 54.661 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045661.D

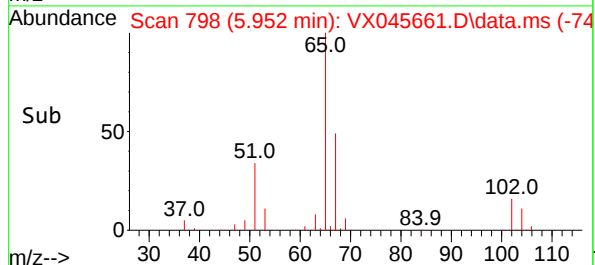
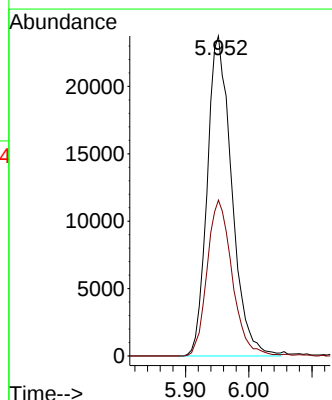
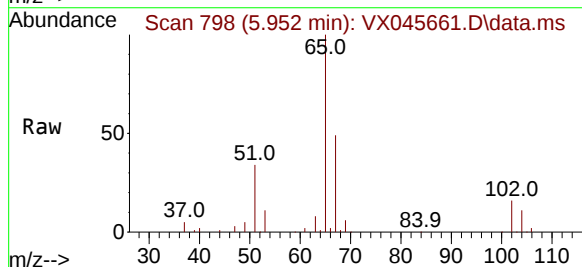
Acq: 08 Apr 2025 18:40

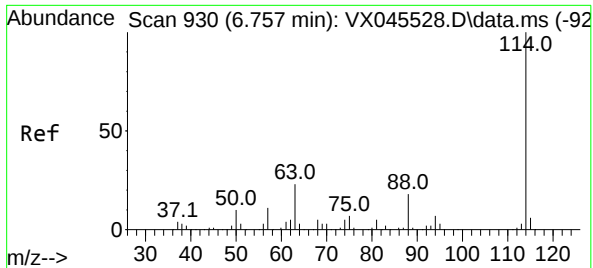
Tgt Ion: 65 Resp: 63919

Ion Ratio Lower Upper

65 100

67 49.7 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX045661.D

Acq: 08 Apr 2025 18:40

Instrument :

MSVOA_X

ClientSampleId :

B-158-SB02

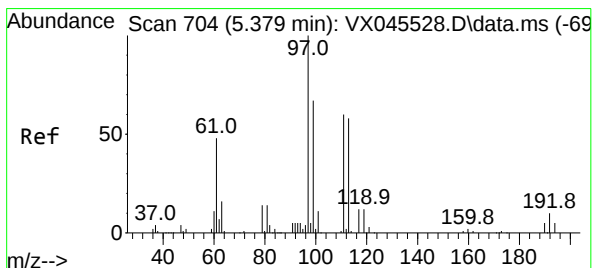
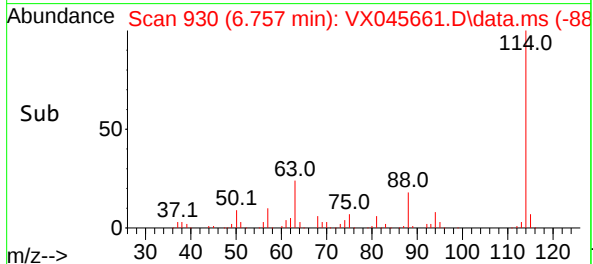
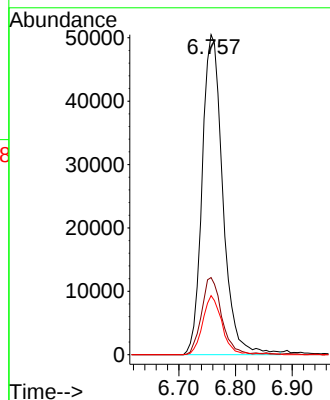
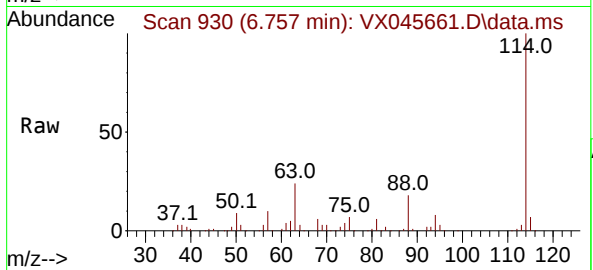
Tgt Ion:114 Resp: 127369

Ion Ratio Lower Upper

114 100

63 24.1 0.0 46.8

88 18.5 0.0 35.4



#35

Dibromofluoromethane

Concen: 51.261 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX045661.D

Acq: 08 Apr 2025 18:40

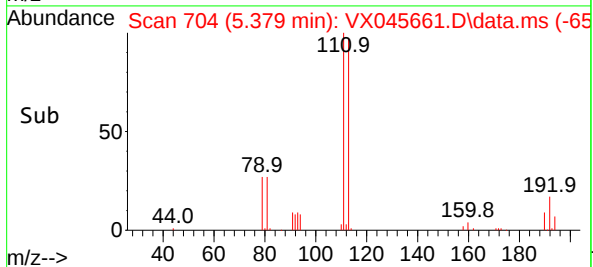
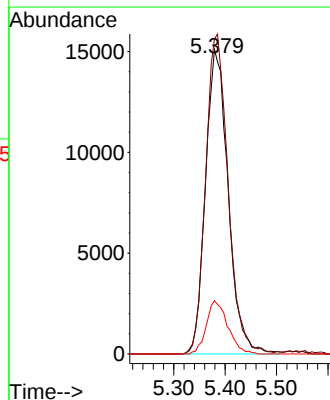
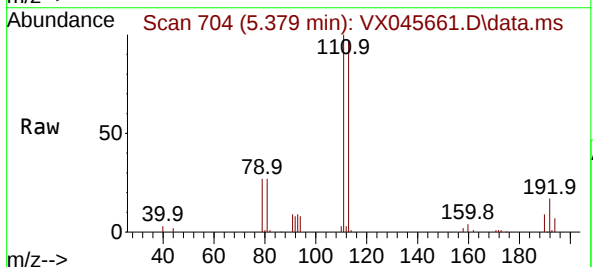
Tgt Ion:113 Resp: 46324

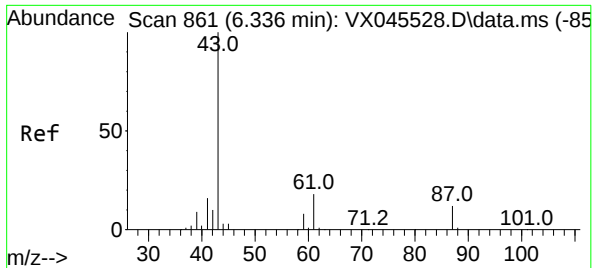
Ion Ratio Lower Upper

113 100

111 103.8 81.8 122.6

192 16.5 13.8 20.6





#43

Isopropyl Acetate

Concen: 3.128 ug/l

RT: 6.354 min Scan# 864

Delta R.T. 0.018 min

Lab File: VX045661.D

Acq: 08 Apr 2025 18:40

Instrument :

MSVOA_X

ClientSampleId :

B-158-SB02

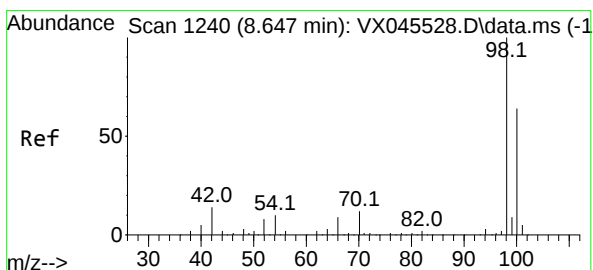
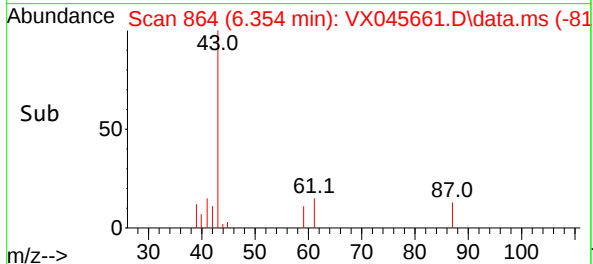
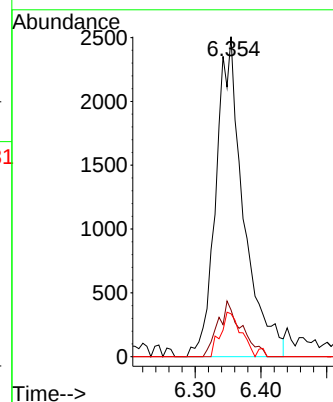
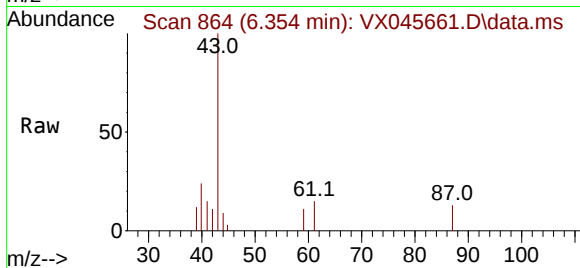
Tgt Ion: 43 Resp: 7289

Ion Ratio Lower Upper

43 100

61 14.9 14.1 21.1

87 10.3 9.2 13.8



#50

Toluene-d8

Concen: 51.867 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045661.D

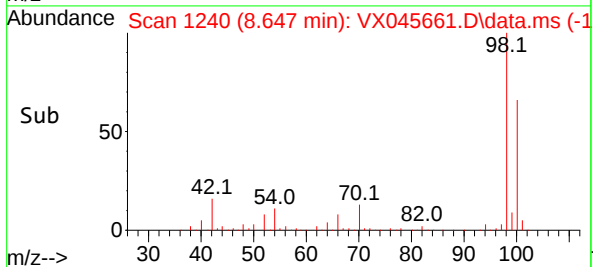
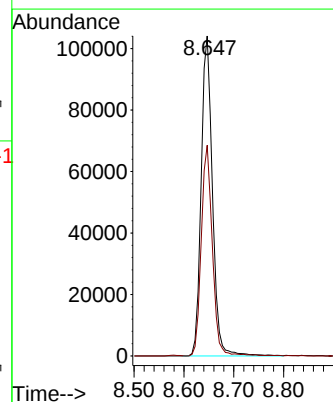
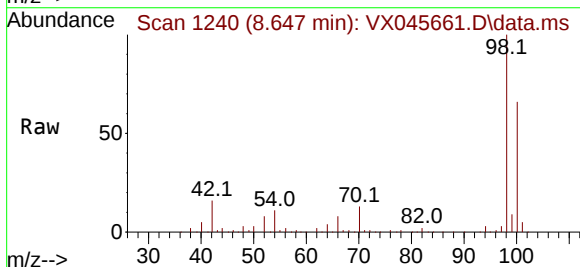
Acq: 08 Apr 2025 18:40

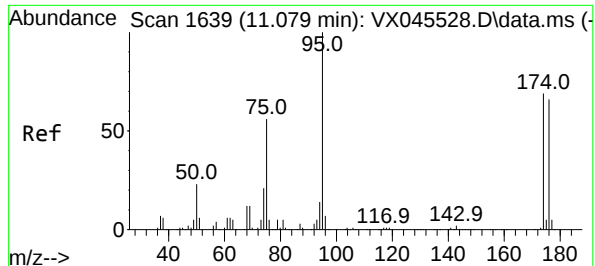
Tgt Ion: 98 Resp: 163599

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.4

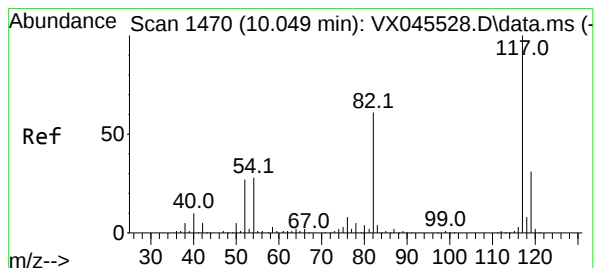
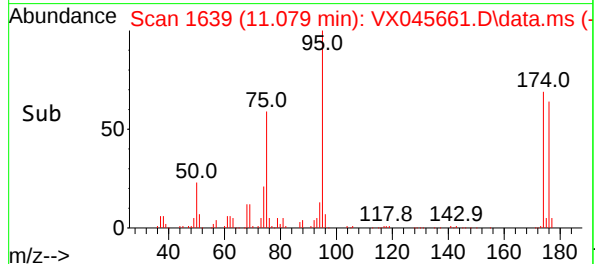
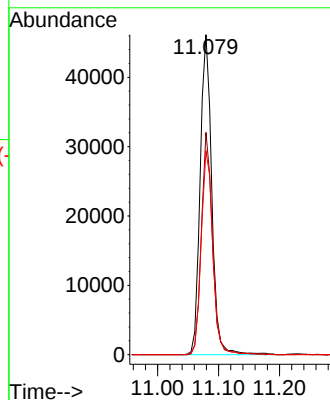
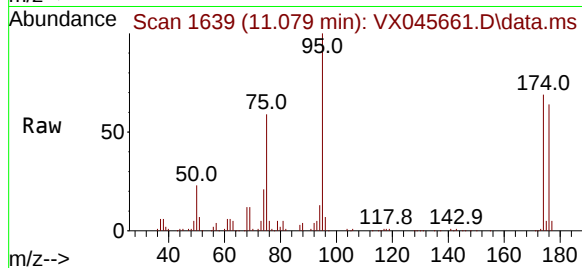




#62
4-Bromofluorobenzene
Concen: 53.054 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

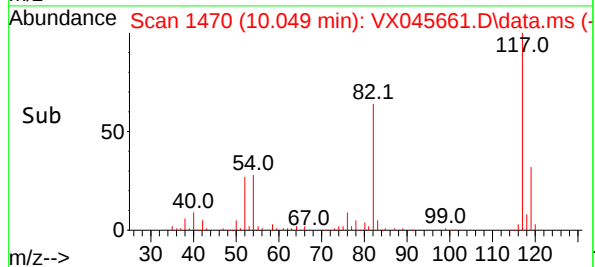
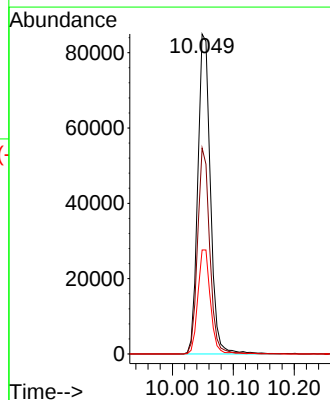
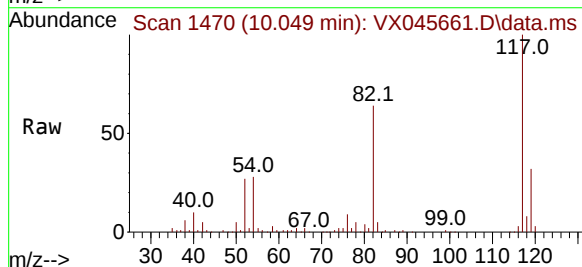
Instrument :
MSVOA_X
ClientSampleId :
B-158-SB02

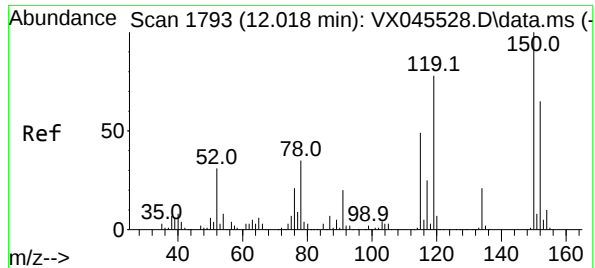
Tgt Ion: 95 Resp: 60955
Ion Ratio Lower Upper
95 100
174 66.6 0.0 135.8
176 64.5 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Tgt Ion: 117 Resp: 121646
Ion Ratio Lower Upper
117 100
82 64.3 49.2 73.8
119 32.5 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045661.D

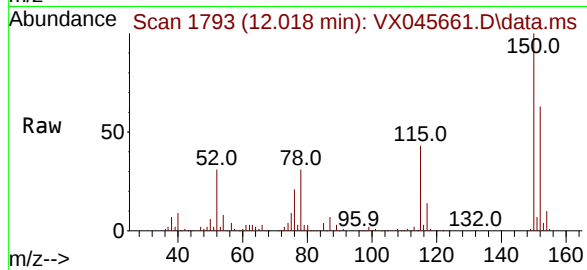
Acq: 08 Apr 2025 18:40

Instrument :

MSVOA_X

ClientSampleId :

B-158-SB02



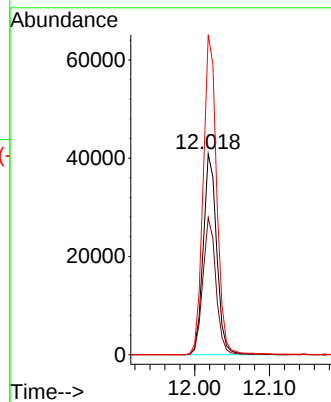
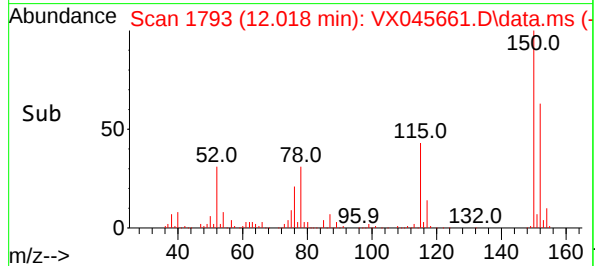
Tgt Ion:152 Resp: 51074

Ion Ratio Lower Upper

152 100

115 66.8 46.9 140.7

150 160.3 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045637.D
 Acq On : 08 Apr 2025 09:12
 Operator : JC/MD
 Sample : VX0408WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0408BWL01

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Apr 09 01:31:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.549	168	66539	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	129800	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51559	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	67529	55.496	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	111.000%
35) Dibromofluoromethane	5.379	113	48500	52.664	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.320%
50) Toluene-d8	8.646	98	165054	51.348	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.700%
62) 4-Bromofluorobenzene	11.079	95	60782	51.913	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.820%

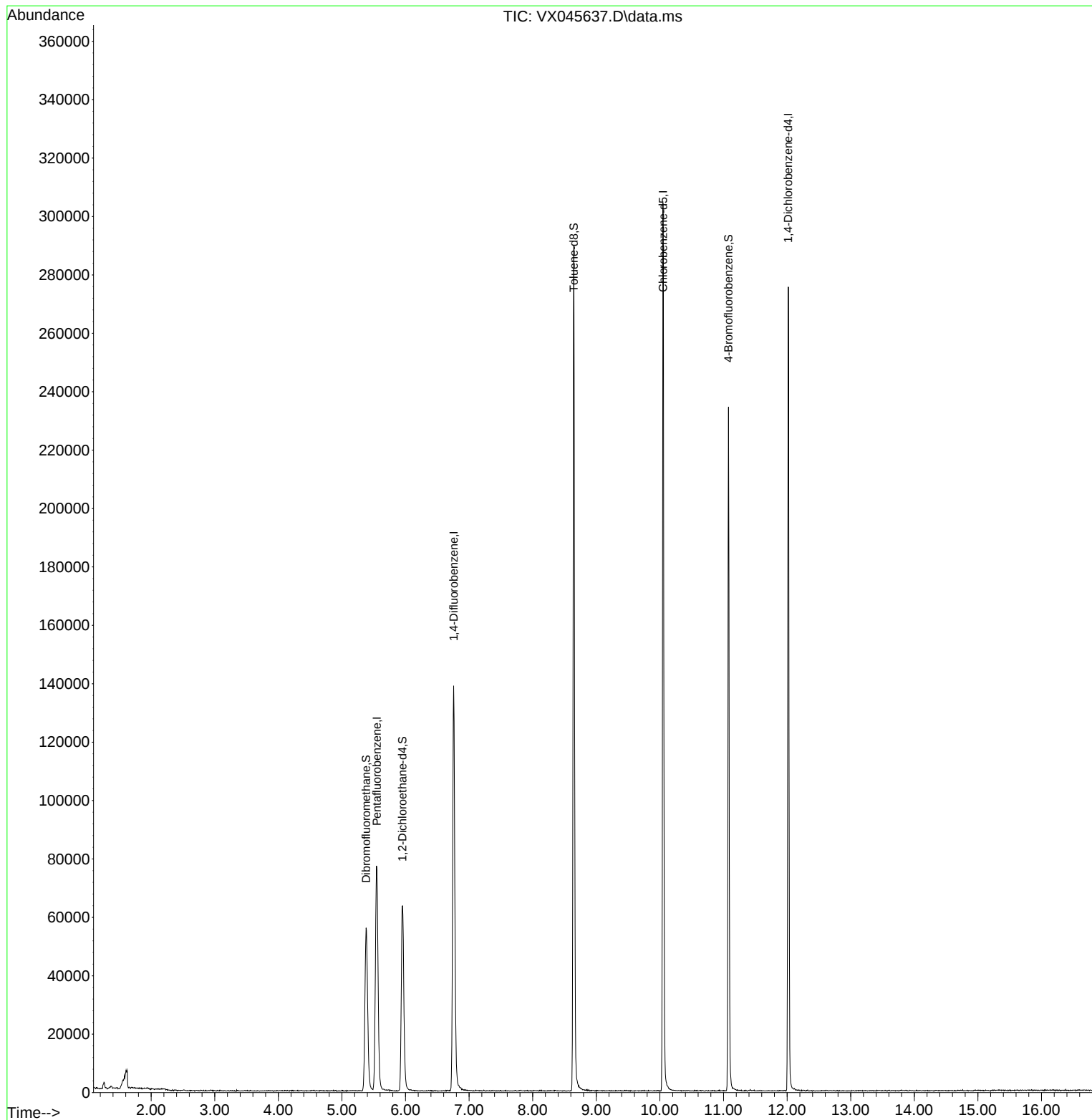
Target Compounds	Qvalue

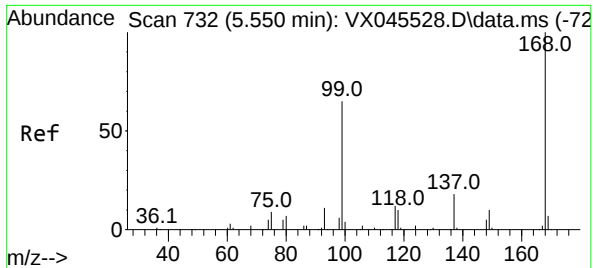
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBL01

Quant Time: Apr 09 01:31:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

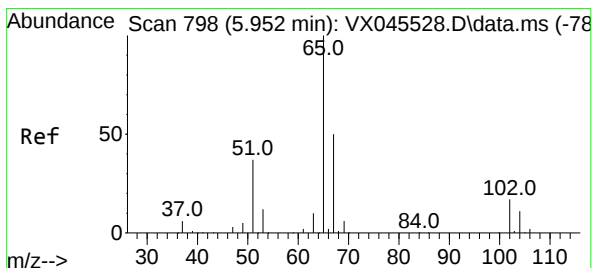
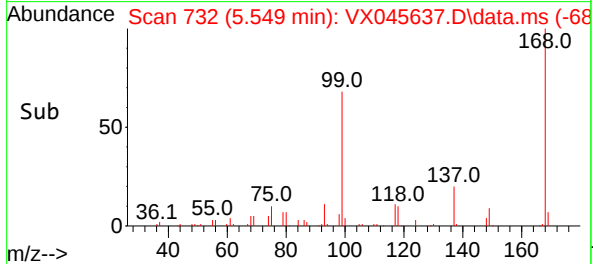
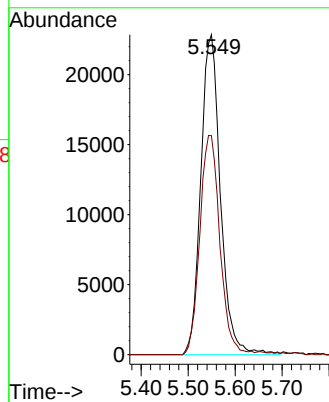
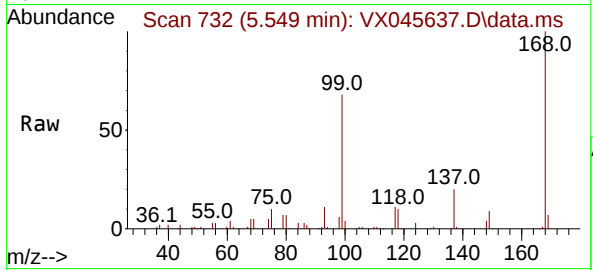




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 71
Delta R.T. -0.001 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

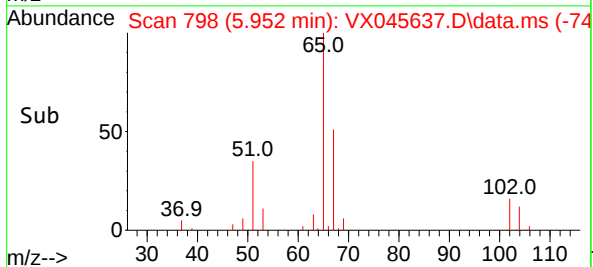
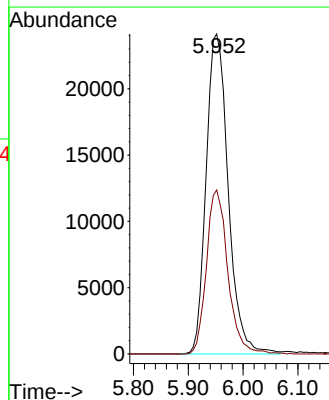
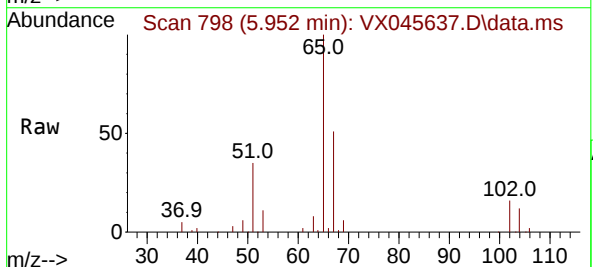
Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

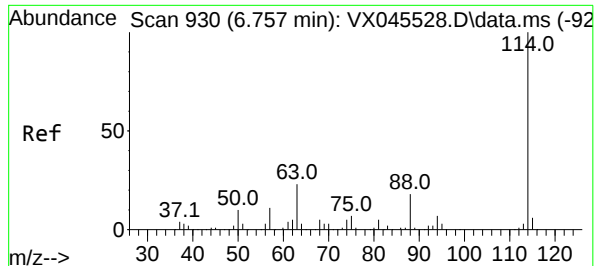
Tgt Ion:168 Resp: 66539
Ion Ratio Lower Upper
168 100
99 68.5 52.3 78.5



#33
1,2-Dichloroethane-d4
Concen: 55.496 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Tgt Ion: 65 Resp: 67529
Ion Ratio Lower Upper
65 100
67 49.7 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

Instrument :

MSVOA_X

ClientSampleId :

VX0408BWL01

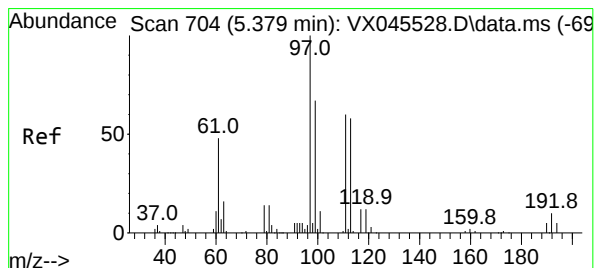
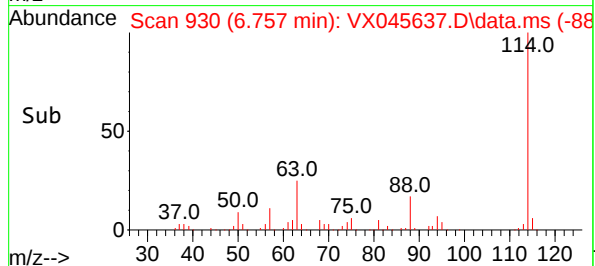
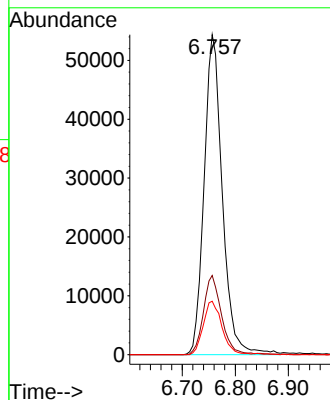
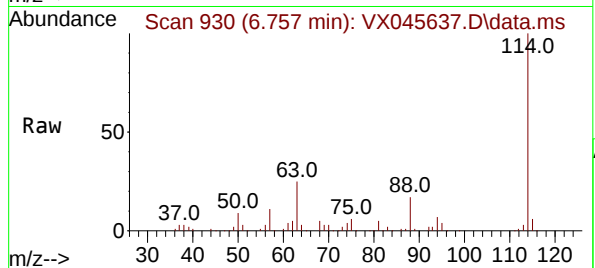
Tgt Ion:114 Resp: 129800

Ion Ratio Lower Upper

114 100

63 24.8 0.0 46.8

88 16.7 0.0 35.4



#35

Dibromofluoromethane

Concen: 52.664 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

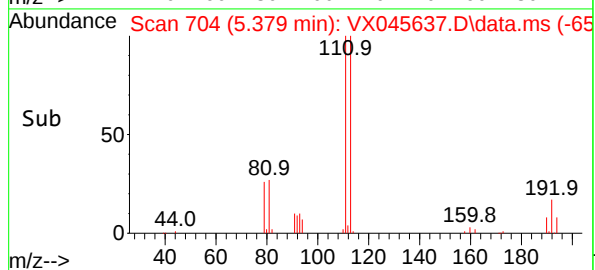
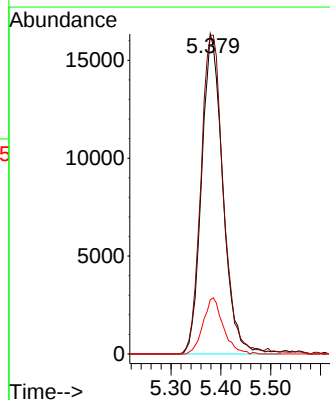
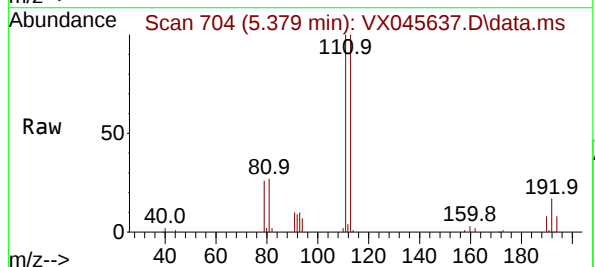
Tgt Ion:113 Resp: 48500

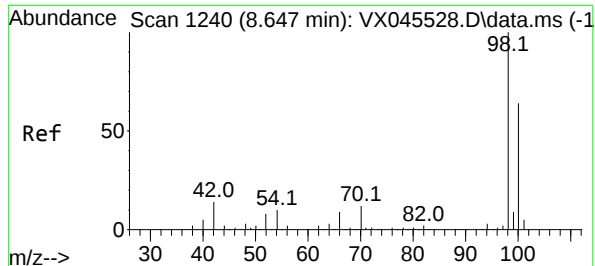
Ion Ratio Lower Upper

113 100

111 103.9 81.8 122.6

192 16.5 13.8 20.6





#50

Toluene-d8

Concen: 51.348 ug/l

RT: 8.646 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

Instrument :

MSVOA_X

ClientSampleId :

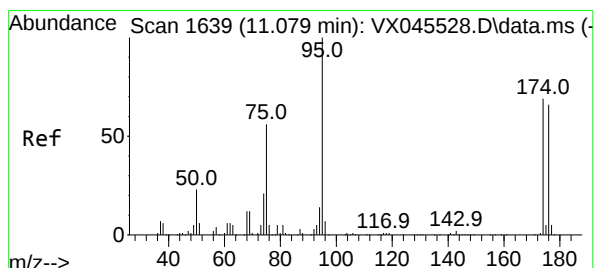
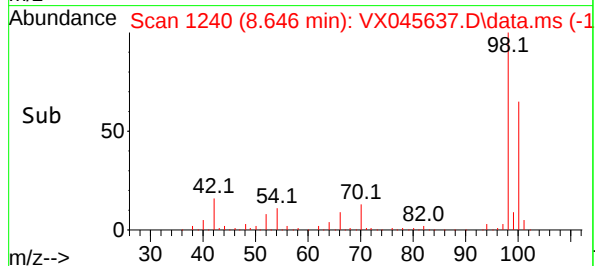
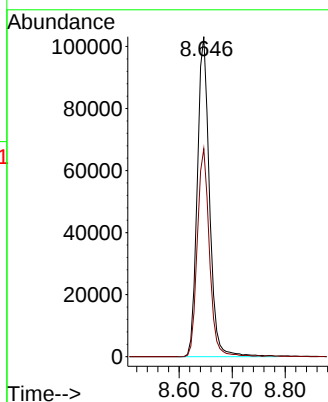
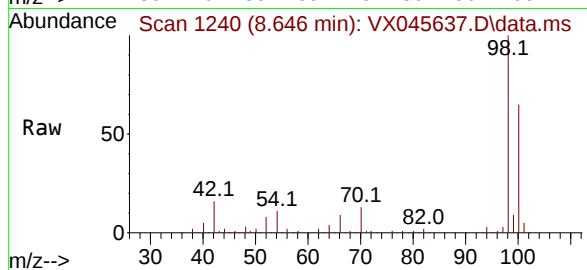
VX0408BWL01

Tgt Ion: 98 Resp: 165054

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 51.913 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

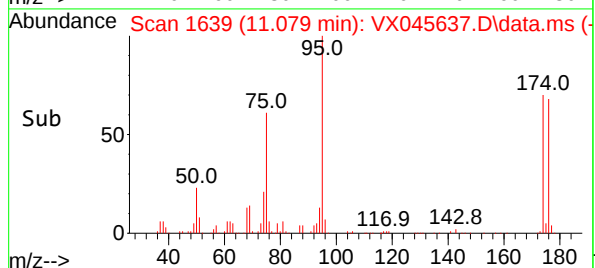
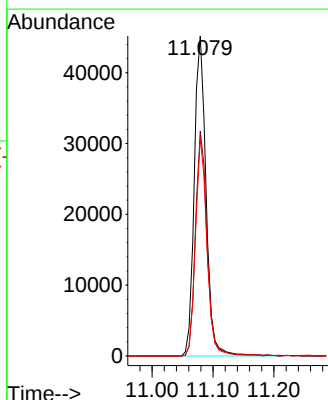
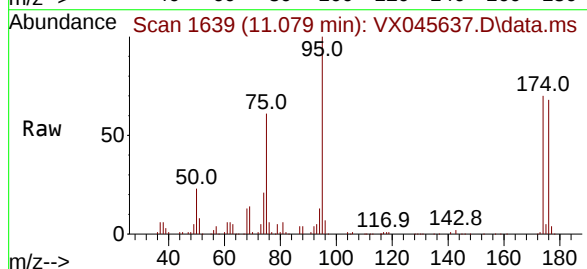
Tgt Ion: 95 Resp: 60782

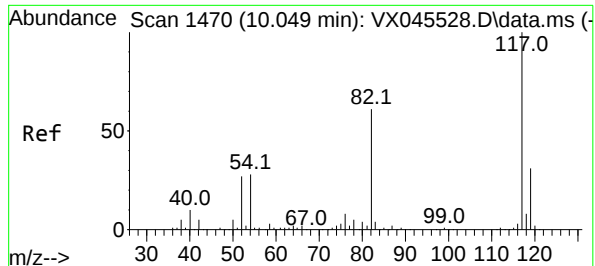
Ion Ratio Lower Upper

95 100

174 69.3 0.0 135.8

176 66.0 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

Instrument :

MSVOA_X

ClientSampleId :

VX0408BWL01

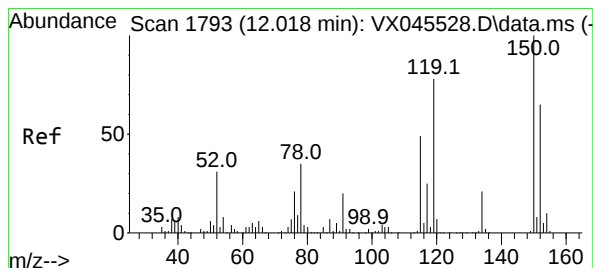
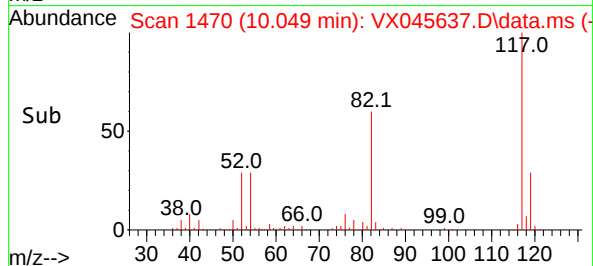
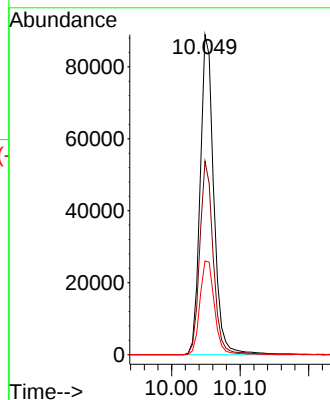
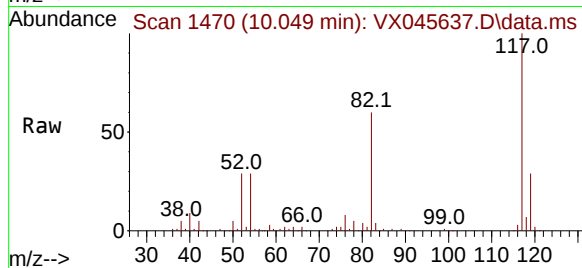
Tgt Ion:117 Resp: 123174

Ion Ratio Lower Upper

117 100

82 60.4 49.2 73.8

119 29.3 25.1 37.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX045637.D

Acq: 08 Apr 2025 09:12

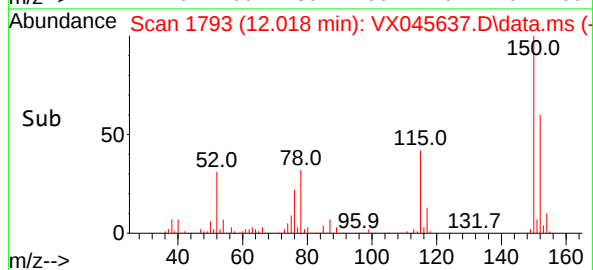
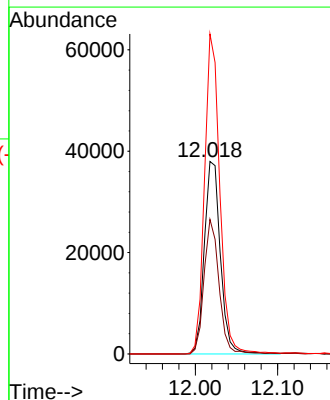
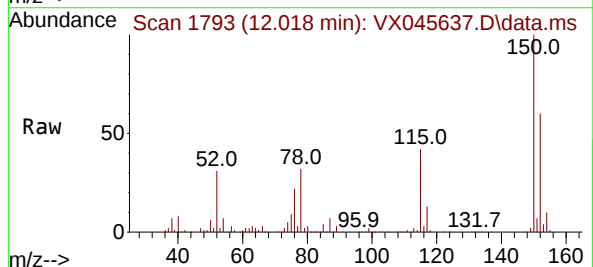
Tgt Ion:152 Resp: 51559

Ion Ratio Lower Upper

152 100

115 65.5 46.9 140.7

150 157.9 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045638.D
 Acq On : 08 Apr 2025 09:43
 Operator : JC/MD
 Sample : VX0408WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0408WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:31:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	106087	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.751	114	183473	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	162323	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	74710	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.946	65	92530	47.695	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.380%
35) Dibromofluoromethane	5.373	113	61662	47.369	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.740%
50) Toluene-d8	8.641	98	216926	47.743	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.480%
62) 4-Bromofluorobenzene	11.079	95	80611	48.707	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.420%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	29914	18.855	ug/l	99
3) Chloromethane	1.307	50	27322	16.763	ug/l	98
4) Vinyl Chloride	1.374	62	25746	17.260	ug/l	100
5) Bromomethane	1.593	94	11482	16.235	ug/l	96
6) Chloroethane	1.666	64	14395	18.190	ug/l	95
7) Trichlorofluoromethane	1.874	101	40244	18.093	ug/l	97
8) Diethyl Ether	2.130	74	12439	16.657	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	23844	18.294	ug/l	97
10) Methyl Iodide	2.441	142	26769	16.466	ug/l	98
11) Tert butyl alcohol	2.971	59	21638	82.991	ug/l	97
12) 1,1-Dichloroethene	2.313	96	21916	17.208	ug/l	95
13) Acrolein	2.233	56	36556	101.816	ug/l	98
14) Allyl chloride	2.654	41	42463	17.572	ug/l	99
15) Acrylonitrile	3.062	53	70851	86.086	ug/l	99
16) Acetone	2.380	43	81335	102.097	ug/l	100
17) Carbon Disulfide	2.502	76	51049	16.229	ug/l	97
18) Methyl Acetate	2.703	43	34096	18.589	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	75408	16.926	ug/l	98
20) Methylene Chloride	2.782	84	25221	16.911	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	21749	16.716	ug/l	99
22) Diisopropyl ether	3.757	45	81207	17.060	ug/l	92
23) Vinyl Acetate	3.715	43	348840	84.821	ug/l	99
24) 1,1-Dichloroethane	3.599	63	45621	16.947	ug/l	99
25) 2-Butanone	4.550	43	107323	92.034	ug/l	98
26) 2,2-Dichloropropane	4.465	77	33325	19.160	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	26725	16.859	ug/l	98
28) Bromochloromethane	4.891	49	22375	17.200	ug/l	99
29) Tetrahydrofuran	5.001	42	62452	82.605	ug/l	98
30) Chloroform	5.080	83	48636	17.558	ug/l	98
31) Cyclohexane	5.464	56	39885	16.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	40095	17.106	ug/l	99
36) 1,1-Dichloropropene	5.684	75	31193	17.747	ug/l	99
37) Ethyl Acetate	4.709	43	38472	17.369	ug/l	99
38) Carbon Tetrachloride	5.666	117	35214	18.538	ug/l	98
39) Methylcyclohexane	7.373	83	40391	18.747	ug/l	99
40) Benzene	6.025	78	94288	17.565	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045638.D
 Acq On : 08 Apr 2025 09:43
 Operator : JC/MD
 Sample : VX0408WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0408WBS01

Quant Time: Apr 09 01:31:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	21289	18.216	ug/l	99
42) 1,2-Dichloroethane	6.080	62	40303	18.178	ug/l	99
43) Isopropyl Acetate	6.336	43	57663	17.177	ug/l	99
44) Trichloroethene	7.117	130	22414	17.568	ug/l	93
45) 1,2-Dichloropropane	7.421	63	23615	17.632	ug/l	100
46) Dibromomethane	7.574	93	18014	17.521	ug/l	99
47) Bromodichloromethane	7.818	83	37430	18.230	ug/l	99
48) Methyl methacrylate	7.690	41	30543	17.621	ug/l	99
49) 1,4-Dioxane	7.659	88	11370	362.562	ug/l	98
51) 4-Methyl-2-Pentanone	8.568	43	202243	90.877	ug/l	99
52) Toluene	8.714	92	56640	17.438	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	29965	16.770	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	34907	18.091	ug/l	92
55) 1,1,2-Trichloroethane	9.147	97	23346	18.037	ug/l	96
56) Ethyl methacrylate	9.116	69	34568	17.257	ug/l	99
57) 1,3-Dichloropropane	9.305	76	40917	18.154	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	85635	84.508	ug/l	100
59) 2-Hexanone	9.427	43	149739	90.861	ug/l	99
60) Dibromochloromethane	9.519	129	25744	18.244	ug/l	99
61) 1,2-Dibromoethane	9.604	107	23565	17.985	ug/l	99
64) Tetrachloroethene	9.269	164	20355	17.761	ug/l	99
65) Chlorobenzene	10.073	112	62155	17.919	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	20950	17.397	ug/l	98
67) Ethyl Benzene	10.189	91	111490	17.947	ug/l	100
68) m/p-Xylenes	10.299	106	83112	36.784	ug/l	100
69) o-Xylene	10.640	106	40448	18.172	ug/l	100
70) Styrene	10.653	104	67373	18.340	ug/l	99
71) Bromoform	10.799	173	15756	17.523	ug/l #	99
73) Isopropylbenzene	10.957	105	107684	17.994	ug/l	100
74) N-amyl acetate	10.842	43	47535	16.605	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	35893	17.074	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	31468m	17.268	ug/l	
77) Bromobenzene	11.195	156	24173	17.482	ug/l	98
78) n-propylbenzene	11.299	91	124284	18.031	ug/l	99
79) 2-Chlorotoluene	11.360	91	78306	17.770	ug/l	98
80) 1,3,5-Trimethylbenzene	11.445	105	91086	18.407	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8668	16.143	ug/l	92
82) 4-Chlorotoluene	11.451	91	88617	18.037	ug/l	99
83) tert-Butylbenzene	11.713	119	89150	18.197	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	90268	18.174	ug/l	100
85) sec-Butylbenzene	11.890	105	112118	18.632	ug/l	100
86) p-Isopropyltoluene	12.006	119	91838	18.512	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	45298	17.997	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	44628	17.490	ug/l	98
89) n-Butylbenzene	12.329	91	79354	18.446	ug/l	100
90) Hexachloroethane	12.536	117	15692	18.405	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	44340	17.719	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7797	17.735	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	23843	17.118	ug/l	98
94) Hexachlorobutadiene	13.725	225	11570	19.276	ug/l	98
95) Naphthalene	13.774	128	86898	16.764	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	24888	17.064	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
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

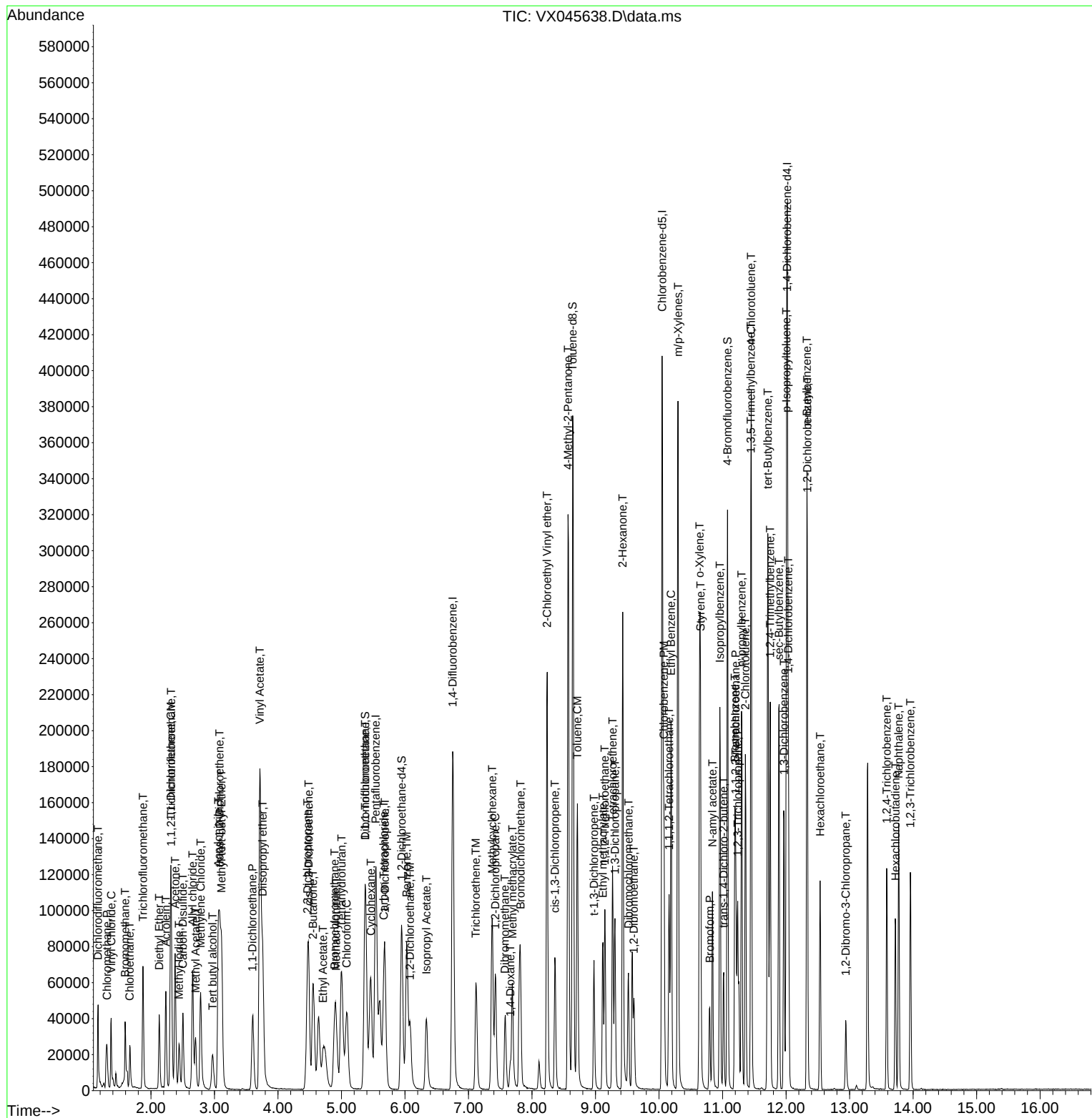
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations
APPROVED

Reviewed By : John Carlone 04/09/2025
Supervised By : Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045639.D
 Acq On : 08 Apr 2025 10:08
 Operator : JC/MD
 Sample : VX0408WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0408WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 04/09/2025
 Supervised By : Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:33:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	81435	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	140832	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	127042	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59865	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.946	65	71765	48.189	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.380%
35) Dibromofluoromethane	5.379	113	47663	47.701	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.400%
50) Toluene-d8	8.641	98	166388	47.708	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.420%
62) 4-Bromofluorobenzene	11.079	95	63046	49.628	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.260%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	24197	19.868	ug/l	99
3) Chloromethane	1.300	50	22755	18.187	ug/l	98
4) Vinyl Chloride	1.374	62	20130	17.581	ug/l	97
5) Bromomethane	1.593	94	9715	17.894	ug/l	96
6) Chloroethane	1.672	64	11621	19.130	ug/l	96
7) Trichlorofluoromethane	1.873	101	32417	18.986	ug/l	99
8) Diethyl Ether	2.130	74	10726	18.711	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	19634	19.624	ug/l	96
10) Methyl Iodide	2.447	142	22218	17.804	ug/l	98
11) Tert butyl alcohol	2.965	59	19902	99.440	ug/l	100
12) 1,1-Dichloroethene	2.312	96	17655	18.059	ug/l	98
13) Acrolein	2.233	56	29070	105.476	ug/l	99
14) Allyl chloride	2.660	41	34925	18.828	ug/l	98
15) Acrylonitrile	3.062	53	61424	97.225	ug/l	99
16) Acetone	2.380	43	59344	97.043	ug/l	97
17) Carbon Disulfide	2.501	76	40083	16.600	ug/l	100
18) Methyl Acetate	2.703	43	29992	21.302	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	64755	18.935	ug/l	99
20) Methylene Chloride	2.782	84	21126	18.453	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	17987	18.009	ug/l	96
22) Diisopropyl ether	3.757	45	67549	18.487	ug/l #	84
23) Vinyl Acetate	3.715	43	300705	95.251	ug/l	99
24) 1,1-Dichloroethane	3.605	63	38247	18.509	ug/l	97
25) 2-Butanone	4.556	43	87606	97.868	ug/l	99
26) 2,2-Dichloropropane	4.471	77	27853	20.862	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	22141	18.196	ug/l	96
28) Bromochloromethane	4.891	49	19583	19.610	ug/l	98
29) Tetrahydrofuran	5.007	42	55490	95.615	ug/l	100
30) Chloroform	5.086	83	40285	18.946	ug/l	94
31) Cyclohexane	5.464	56	33292	18.224	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	32862	18.265	ug/l	98
36) 1,1-Dichloropropene	5.690	75	25243	18.711	ug/l	98
37) Ethyl Acetate	4.708	43	32466	19.096	ug/l	99
38) Carbon Tetrachloride	5.665	117	28449	19.511	ug/l	97
39) Methylcyclohexane	7.372	83	31923	19.303	ug/l	98
40) Benzene	6.031	78	78305	19.004	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045639.D
 Acq On : 08 Apr 2025 10:08
 Operator : JC/MD
 Sample : VX0408WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0408WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 04/09/2025
 Supervised By : Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:33:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	18472	20.592	ug/l	98
42) 1,2-Dichloroethane	6.080	62	34412	20.221	ug/l	100
43) Isopropyl Acetate	6.336	43	50281	19.513	ug/l	100
44) Trichloroethene	7.116	130	18204	18.588	ug/l	96
45) 1,2-Dichloropropane	7.427	63	19592	19.057	ug/l	96
46) Dibromomethane	7.580	93	15576	19.737	ug/l	100
47) Bromodichloromethane	7.818	83	31240	19.822	ug/l	94
48) Methyl methacrylate	7.690	41	25731	19.340	ug/l	99
49) 1,4-Dioxane	7.659	88	10279	427.015	ug/l	98
51) 4-Methyl-2-Pentanone	8.567	43	177718	104.036	ug/l	99
52) Toluene	8.714	92	47501	19.052	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	25046	18.058	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	29588	19.978	ug/l	96
55) 1,1,2-Trichloroethane	9.147	97	19608	19.736	ug/l	99
56) Ethyl methacrylate	9.116	69	29788	19.373	ug/l	98
57) 1,3-Dichloropropane	9.305	76	34749	20.085	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	69213	88.983	ug/l	100
59) 2-Hexanone	9.427	43	131955	104.313	ug/l	99
60) Dibromochloromethane	9.518	129	21426	19.782	ug/l	100
61) 1,2-Dibromoethane	9.604	107	20300	20.184	ug/l	99
64) Tetrachloroethene	9.268	164	16439	18.328	ug/l	97
65) Chlorobenzene	10.073	112	51112	18.828	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	17578	18.651	ug/l	100
67) Ethyl Benzene	10.189	91	90492	18.612	ug/l	100
68) m/p-Xylenes	10.299	106	66506	37.609	ug/l	96
69) o-Xylene	10.640	106	33206	19.062	ug/l	98
70) Styrene	10.652	104	55541	19.318	ug/l	99
71) Bromoform	10.799	173	13518	19.209	ug/l #	97
73) Isopropylbenzene	10.957	105	88110	18.374	ug/l	99
74) N-amyl acetate	10.841	43	41920	18.275	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	31935	18.958	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	27398m	18.763	ug/l	
77) Bromobenzene	11.195	156	20769	18.745	ug/l	97
78) n-propylbenzene	11.299	91	101268	18.335	ug/l	100
79) 2-Chlorotoluene	11.360	91	65588	18.575	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	75087	18.936	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	7865	18.280	ug/l	99
82) 4-Chlorotoluene	11.451	91	72539	18.425	ug/l	97
83) tert-Butylbenzene	11.713	119	73526	18.729	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	75977	19.090	ug/l	99
85) sec-Butylbenzene	11.890	105	92802	19.247	ug/l	100
86) p-Isopropyltoluene	12.006	119	74468	18.733	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	37322	18.505	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	36814	18.005	ug/l	94
89) n-Butylbenzene	12.329	91	63899	18.537	ug/l	99
90) Hexachloroethane	12.536	117	12967	18.981	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	38349	19.125	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	6808	19.325	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	20197	18.096	ug/l	97
94) Hexachlorobutadiene	13.725	225	9208	19.145	ug/l	98
95) Naphthalene	13.774	128	75849	18.261	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	20892	17.876	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045639.D
Acq On : 08 Apr 2025 10:08
Operator : JC/MD
Sample : VX0408WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 09 01:33:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

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

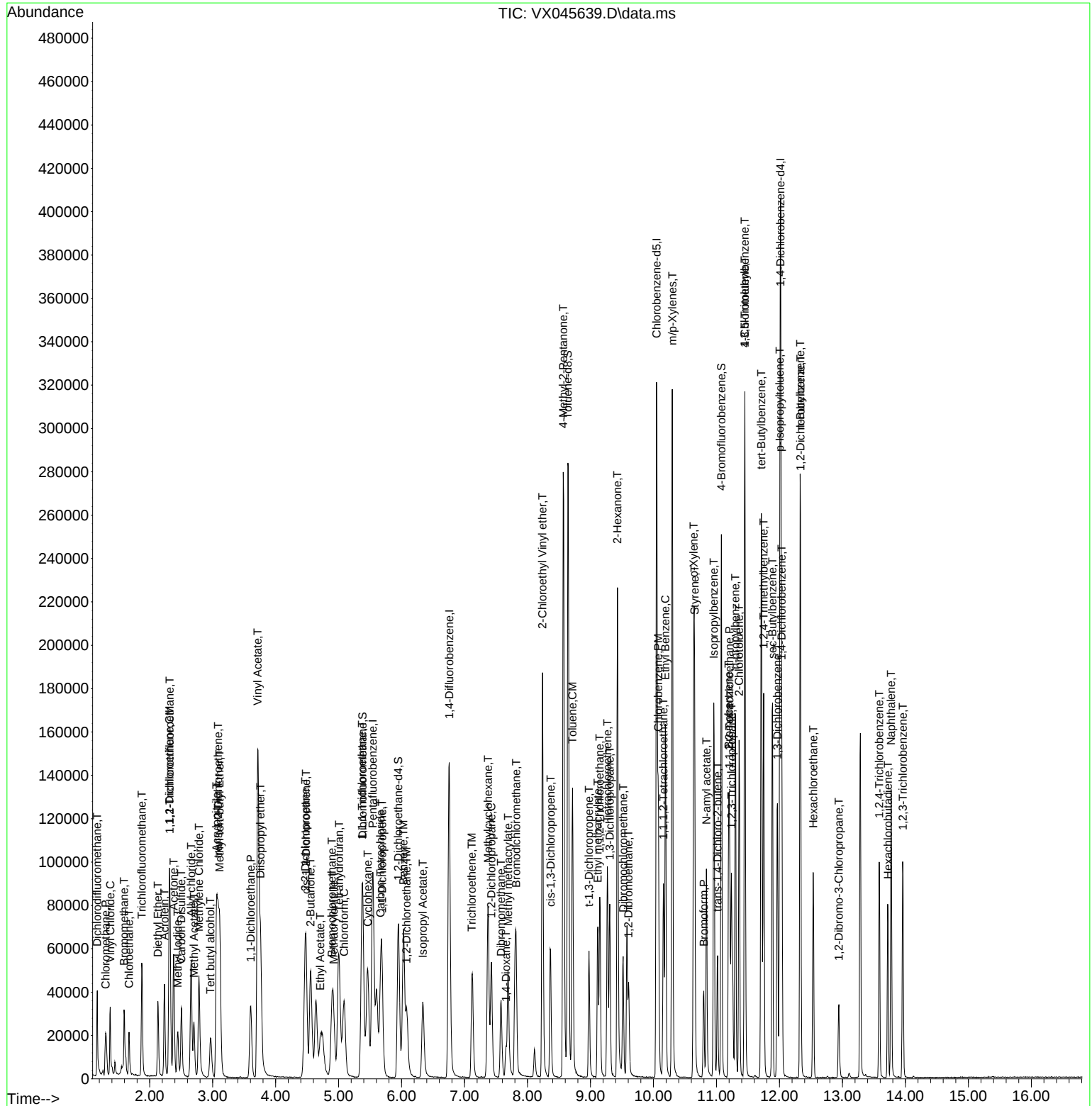
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045639.D
Acq On : 08 Apr 2025 10:08
Operator : JC/MD
Sample : VX0408WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBSD01

Manual Integrations

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:33:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045525.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dichlorobenzene	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dioxane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Ethyl methacrylate	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Methacrylonitrile	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC005	VX045526.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:22 PM	MMDadoda	4/2/2025 2:16:07 PM	Peak Integrated by Software
VSTDICC020	VX045527.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:25 PM	MMDadoda	4/2/2025 2:16:09 PM	Peak Integrated by Software
VSTDICCC050	VX045528.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:26 PM	MMDadoda	4/2/2025 2:16:11 PM	Peak Integrated by Software
VSTDICC100	VX045529.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:28 PM	MMDadoda	4/2/2025 2:16:15 PM	Peak Integrated by Software
VSTDICC150	VX045530.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:30 PM	MMDadoda	4/2/2025 2:16:46 PM	Peak Integrated by Software
VSTDICV050	VX045532.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:32 PM	MMDadoda	4/2/2025 2:17:50 PM	Peak Integrated by Software
VSTDCCC050	VX045534.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:10 AM	MMDadoda	4/3/2025 1:12:02 PM	Peak Integrated by Software
VSTDCCC050	VX045557.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:58 AM	MMDadoda	4/3/2025 1:12:08 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VX040225

Instrument

MSVOA_x

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	vx040825	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045635.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:37 AM	MMDadoda	4/9/2025 11:41:11 AM	Peak Integrated by Software
VX0408WBS01	VX045638.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:42 AM	MMDadoda	4/9/2025 11:41:13 AM	Peak Integrated by Software
VX0408WBSD0 1	VX045639.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:47 AM	MMDadoda	4/9/2025 11:41:15 AM	Peak Integrated by Software
VSTDCCC050	VX045662.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:53 AM	MMDadoda	4/9/2025 11:41:16 AM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045524.D	01 Apr 2025 16:15	JC/MD	Ok
2	VSTDICCC001	VX045525.D	01 Apr 2025 17:06	JC/MD	Ok,M
3	VSTDICCC005	VX045526.D	01 Apr 2025 17:29	JC/MD	Ok,M
4	VSTDICCC020	VX045527.D	01 Apr 2025 17:52	JC/MD	Ok,M
5	VSTDICCC050	VX045528.D	01 Apr 2025 18:15	JC/MD	Ok,M
6	VSTDICCC100	VX045529.D	01 Apr 2025 18:38	JC/MD	Ok,M
7	VSTDICCC150	VX045530.D	01 Apr 2025 19:02	JC/MD	Ok,M
8	IBLK	VX045531.D	01 Apr 2025 19:25	JC/MD	Ok
9	VSTDICV050	VX045532.D	01 Apr 2025 19:48	JC/MD	Ok,M
10	BFB	VX045533.D	02 Apr 2025 09:30	JC/MD	Ok
11	VSTDICCC050	VX045534.D	02 Apr 2025 10:02	JC/MD	Ok,M
12	VX0402MBL01	VX045535.D	02 Apr 2025 10:30	JC/MD	Ok
13	VX0402WBL01	VX045536.D	02 Apr 2025 10:53	JC/MD	Ok
14	VX0402WBS01	VX045537.D	02 Apr 2025 11:16	JC/MD	Ok,M
15	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44	JC/MD	Ok,M
16	Q1697-01	VX045539.D	02 Apr 2025 12:07	JC/MD	Dilution
17	Q1697-02	VX045540.D	02 Apr 2025 12:30	JC/MD	Dilution
18	IBLK	VX045541.D	02 Apr 2025 12:54	JC/MD	Ok
19	Q1697-01DL	VX045542.D	02 Apr 2025 13:21	JC/MD	Ok
20	Q1697-02DL	VX045543.D	02 Apr 2025 13:44	JC/MD	Ok
21	Q1697-03	VX045544.D	02 Apr 2025 14:07	JC/MD	Not Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1697-04	VX045545.D	02 Apr 2025 14:31	JC/MD	Not Ok
23	Q1697-05	VX045546.D	02 Apr 2025 14:54	JC/MD	Not Ok
24	Q1697-07	VX045547.D	02 Apr 2025 15:18	JC/MD	Not Ok
25	IBLK	VX045548.D	02 Apr 2025 15:41	JC/MD	Ok
26	Q1697-03	VX045549.D	02 Apr 2025 16:04	JC/MD	Ok
27	Q1697-04	VX045550.D	02 Apr 2025 16:27	JC/MD	Ok
28	Q1697-05	VX045551.D	02 Apr 2025 16:51	JC/MD	Ok
29	Q1697-06	VX045552.D	02 Apr 2025 17:14	JC/MD	ReRun
30	Q1623-01	VX045553.D	02 Apr 2025 17:37	JC/MD	Ok
31	Q1623-02	VX045554.D	02 Apr 2025 18:01	JC/MD	Ok
32	Q1623-03	VX045555.D	02 Apr 2025 18:24	JC/MD	Ok
33	Q1623-04	VX045556.D	02 Apr 2025 18:47	JC/MD	Ok
34	VSTDCCC050	VX045557.D	02 Apr 2025 19:10	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM
Supervise By	Maresh Dadoda	Supervise On	4/9/2025 11:41:10 AM
SubDirectory	VX040825	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133619		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133620,VP133621		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045634.D	08 Apr 2025 07:49	JC/MD	Ok
2	VSTDCCC050	VX045635.D	08 Apr 2025 08:24	JC/MD	Ok,M
3	VX0408MBL01	VX045636.D	08 Apr 2025 08:49	JC/MD	Ok
4	VX0408WBL01	VX045637.D	08 Apr 2025 09:12	JC/MD	Ok
5	VX0408WBS01	VX045638.D	08 Apr 2025 09:43	JC/MD	Ok,M
6	VX0408WBSD01	VX045639.D	08 Apr 2025 10:08	JC/MD	Ok,M
7	Q1741-01	VX045640.D	08 Apr 2025 10:32	JC/MD	Ok
8	Q1746-07	VX045641.D	08 Apr 2025 10:55	JC/MD	Ok
9	Q1702-03	VX045642.D	08 Apr 2025 11:18	JC/MD	Ok
10	PB167492ZHE01	VX045643.D	08 Apr 2025 11:41	JC/MD	Ok
11	PB167492ZHE02	VX045644.D	08 Apr 2025 12:05	JC/MD	Ok
12	Q1737-02	VX045645.D	08 Apr 2025 12:28	JC/MD	Ok
13	PB167492ZHE04	VX045646.D	08 Apr 2025 12:51	JC/MD	Ok
14	PB167492ZHE05	VX045647.D	08 Apr 2025 13:14	JC/MD	Ok
15	PB167492ZHE06	VX045648.D	08 Apr 2025 13:38	JC/MD	Ok
16	PB167492ZHE07	VX045649.D	08 Apr 2025 14:01	JC/MD	Ok
17	PB167492ZHE08	VX045650.D	08 Apr 2025 14:24	JC/MD	Ok
18	PB167492ZHE09	VX045651.D	08 Apr 2025 14:47	JC/MD	Ok
19	PB167492ZHE10	VX045652.D	08 Apr 2025 15:11	JC/MD	Ok
20	PB167492ZHE11	VX045653.D	08 Apr 2025 15:34	JC/MD	Ok
21	PB167492ZHE03	VX045654.D	08 Apr 2025 15:58	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM
Supervise By	Mahesh Dadoda	Supervise On	4/9/2025 11:41:10 AM
SubDirectory	VX040825	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133619		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133620,VP133621		

22	Q1745-04	VX045655.D	08 Apr 2025 16:21	JC/MD	Ok
23	Q1732-04	VX045656.D	08 Apr 2025 16:44	JC/MD	Ok
24	Q1740-04	VX045657.D	08 Apr 2025 17:07	JC/MD	Ok
25	Q1745-12	VX045658.D	08 Apr 2025 17:31	JC/MD	Ok
26	Q1743-04	VX045659.D	08 Apr 2025 17:54	JC/MD	Ok
27	Q1744-02	VX045660.D	08 Apr 2025 18:17	JC/MD	Ok
28	Q1744-04	VX045661.D	08 Apr 2025 18:40	JC/MD	Ok
29	VSTDCCC050	VX045662.D	08 Apr 2025 19:04	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045524.D	01 Apr 2025 16:15		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX045525.D	01 Apr 2025 17:06	%D failed for Comp. #53 in 01PPB	JC/MD	Ok,M
3	VSTDIC005	VSTDIC005	VX045526.D	01 Apr 2025 17:29		JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX045527.D	01 Apr 2025 17:52		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX045528.D	01 Apr 2025 18:15		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX045529.D	01 Apr 2025 18:38		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX045530.D	01 Apr 2025 19:02		JC/MD	Ok,M
8	IBLK	IBLK	VX045531.D	01 Apr 2025 19:25		JC/MD	Ok
9	VSTDICV050	ICV VX040225	VX045532.D	01 Apr 2025 19:48		JC/MD	Ok,M
10	BFB	BFB	VX045533.D	02 Apr 2025 09:30		JC/MD	Ok
11	VSTDIC050	VSTDIC050	VX045534.D	02 Apr 2025 10:02	pH#Lot#V12668	JC/MD	Ok,M
12	VX0402MBL01	VX0402MBL01	VX045535.D	02 Apr 2025 10:30		JC/MD	Ok
13	VX0402WBL01	VX0402WBL01	VX045536.D	02 Apr 2025 10:53		JC/MD	Ok
14	VX0402WBS01	VX0402WBS01	VX045537.D	02 Apr 2025 11:16		JC/MD	Ok,M
15	VX0402WBSD01	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44		JC/MD	Ok,M
16	Q1697-01	MW-19B-72-040125	VX045539.D	02 Apr 2025 12:07	vial A pH<2 Need 200X	JC/MD	Dilution
17	Q1697-02	IW-01-55-040125	VX045540.D	02 Apr 2025 12:30	vial A pH<2 Need 10X	JC/MD	Dilution

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	IBLK	IBLK	VX045541.D	02 Apr 2025 12:54		JC/MD	Ok
19	Q1697-01DL	MW-19B-72-040125DL	VX045542.D	02 Apr 2025 13:21	vial B pH<2	JC/MD	Ok
20	Q1697-02DL	IW-01-55-040125DL	VX045543.D	02 Apr 2025 13:44	vial B pH<2	JC/MD	Ok
21	Q1697-03	IW-02-55-040125	VX045544.D	02 Apr 2025 14:07	Need lower dilution	JC/MD	Not Ok
22	Q1697-04	IW-02-55-040125-FD	VX045545.D	02 Apr 2025 14:31	Need lower dilution	JC/MD	Not Ok
23	Q1697-05	IW-03-55-040125	VX045546.D	02 Apr 2025 14:54	Need lower dilution	JC/MD	Not Ok
24	Q1697-07	MW-19B-72-040125	VX045547.D	02 Apr 2025 15:18	Not On Login	JC/MD	Not Ok
25	IBLK	IBLK	VX045548.D	02 Apr 2025 15:41		JC/MD	Ok
26	Q1697-03	IW-02-55-040125	VX045549.D	02 Apr 2025 16:04	vial A pH<2	JC/MD	Ok
27	Q1697-04	IW-02-55-040125-FD	VX045550.D	02 Apr 2025 16:27	vial A pH<2	JC/MD	Ok
28	Q1697-05	IW-03-55-040125	VX045551.D	02 Apr 2025 16:51	vial A pH<2	JC/MD	Ok
29	Q1697-06	TB-01-040125	VX045552.D	02 Apr 2025 17:14	vial A pH<2 TB;Hit of comp.#44	JC/MD	ReRun
30	Q1623-01	Storage-Blank-SOIL-RE	VX045553.D	02 Apr 2025 17:37	vial A pH<2	JC/MD	Ok
31	Q1623-02	Storage-Blank-WATER	VX045554.D	02 Apr 2025 18:01	vial A pH<2	JC/MD	Ok
32	Q1623-03	Storage-Blank-WATER	VX045555.D	02 Apr 2025 18:24	vial A pH<2	JC/MD	Ok
33	Q1623-04	Storage-Blank-SAMPLE	VX045556.D	02 Apr 2025 18:47	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX045557.D	02 Apr 2025 19:10		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM
Supervise By	Maresh Dadoda	Supervise On	4/9/2025 11:41:10 AM
SubDirectory	VX040825	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133619		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133620,VP133621		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045634.D	08 Apr 2025 07:49		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045635.D	08 Apr 2025 08:24	pH#Lot#V12668	JC/MD	Ok,M
3	VX0408MBL01	VX0408MBL01	VX045636.D	08 Apr 2025 08:49		JC/MD	Ok
4	VX0408WBL01	VX0408BWL01	VX045637.D	08 Apr 2025 09:12		JC/MD	Ok
5	VX0408WBS01	VX0408WBS01	VX045638.D	08 Apr 2025 09:43		JC/MD	Ok,M
6	VX0408WBSD01	VX0408WBSD01	VX045639.D	08 Apr 2025 10:08		JC/MD	Ok,M
7	Q1741-01	RMW-02B-66-040425	VX045640.D	08 Apr 2025 10:32	vial A pH<2	JC/MD	Ok
8	Q1746-07	EB-2025-4-7	VX045641.D	08 Apr 2025 10:55	vial B pH<2 EB	JC/MD	Ok
9	Q1702-03	60442	VX045642.D	08 Apr 2025 11:18	vial A pH<2 Foamy sample	JC/MD	Ok
10	PB167492ZHE01	PB167492ZHE01	VX045643.D	08 Apr 2025 11:41		JC/MD	Ok
11	PB167492ZHE02	PB167492ZHE02	VX045644.D	08 Apr 2025 12:05		JC/MD	Ok
12	Q1737-02	RT3069	VX045645.D	08 Apr 2025 12:28	vial A pH#5.0	JC/MD	Ok
13	PB167492ZHE04	PB167492ZHE04	VX045646.D	08 Apr 2025 12:51		JC/MD	Ok
14	PB167492ZHE05	PB167492ZHE05	VX045647.D	08 Apr 2025 13:14		JC/MD	Ok
15	PB167492ZHE06	PB167492ZHE06	VX045648.D	08 Apr 2025 13:38		JC/MD	Ok
16	PB167492ZHE07	PB167492ZHE07	VX045649.D	08 Apr 2025 14:01		JC/MD	Ok
17	PB167492ZHE08	PB167492ZHE08	VX045650.D	08 Apr 2025 14:24		JC/MD	Ok
18	PB167492ZHE09	PB167492ZHE09	VX045651.D	08 Apr 2025 14:47		JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM
Supervise By	Maresh Dadoda	Supervise On	4/9/2025 11:41:10 AM
SubDirectory	VX040825	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133619		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133620,VP133621		

19	PB167492ZHE10	PB167492ZHE10	VX045652.D	08 Apr 2025 15:11		JC/MD	Ok
20	PB167492ZHE11	PB167492ZHE11	VX045653.D	08 Apr 2025 15:34		JC/MD	Ok
21	PB167492ZHE03	PB167492ZHE03	VX045654.D	08 Apr 2025 15:58		JC/MD	Ok
22	Q1745-04	IB-6A-WC	VX045655.D	08 Apr 2025 16:21	vial A pH#5.0	JC/MD	Ok
23	Q1732-04	TT-8	VX045656.D	08 Apr 2025 16:44	vial A pH#5.0	JC/MD	Ok
24	Q1740-04	TP-20	VX045657.D	08 Apr 2025 17:07	vial A pH#5.0	JC/MD	Ok
25	Q1745-12	IB-6.5-WC	VX045658.D	08 Apr 2025 17:31	vial A pH#5.0	JC/MD	Ok
26	Q1743-04	TP-16	VX045659.D	08 Apr 2025 17:54	vial A pH#5.0	JC/MD	Ok
27	Q1744-02	B-158-SB01	VX045660.D	08 Apr 2025 18:17	vial A pH#5.0	JC/MD	Ok
28	Q1744-04	B-158-SB02	VX045661.D	08 Apr 2025 18:40	vial A pH#5.0	JC/MD	Ok
29	VSTDCCC050	VSTDCCC050EC	VX045662.D	08 Apr 2025 19:04		JC/MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	Q1744	OrderDate:	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-02	B-158-SB01	TCLP	TCLP VOA	8260D	04/05/25		04/08/25	04/07/25
Q1744-04	B-158-SB02	TCLP	TCLP VOA	8260D	04/05/25		04/08/25	04/07/25

SOP ID : M1311-TCLP-15		
SDG No : N/A	Start Prep Date : 04/07/2025	Time : 15:00
Weigh By : JP	End Prep Date : 04/08/2025	Time : 09:25
Balance ID : WC SC-7	Combination Ratio : 20	
pH Meter ID : WC PH METER-1	ZHE Cleaning Batch : ³⁰ N/A Vx040825.	
Extraction By : JP	Initial Room Temperature: 23 °C	
Filter By : JP	Final Room Temperature: 21 °C	
Pipette ID : WC	TCLP Technician Signature : ³⁰	
Tumbler ID : ZHE-1	Supervisor By : 12	
TCLP Filter ID : 50223706		

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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
N/A	N/A	N/A
N/A	N/A	N/A
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	23237	N/A

Extraction Conformance/Non-Conformance Comments:

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25 11:45	³⁰ / PCLP Room	S-Y / VOC Lab
	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
PB167492TB	LEB492	11	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-1
Q1732-04	TT-8	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1737-02	RT3069	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1740-04	TP-20	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1743-04	TP-16	04	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1744-02	B-158-SB01	05	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1744-04	B-158-SB02	06	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1745-04	IB-6A-WC	07	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1745-12	IB-6.5-WC	08	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1746-02	B-149-SB01	09	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1746-04	B-149-SB02	10	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167492TB	LEB492	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04	TT-8	N/A	N/A	N/A	N/A	100	N/A
Q1737-02	RT3069	N/A	N/A	N/A	N/A	100	N/A
Q1740-04	TP-20	N/A	N/A	N/A	N/A	100	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tcip q1746

WorkList ID : 188780

Department : TCLP Extraction

Date : 04-07-2025 13:59:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1732-04	TT-8	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	04/04/2025	1311 ZHE
Q1737-02	RT3069	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	04/04/2025	1311 ZHE
Q1740-04	TP-20	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	04/04/2025	1311 ZHE
Q1743-04	TP-16	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L33	04/07/2025	1311 ZHE
Q1744-02	B-158-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311 ZHE
Q1744-04	B-158-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311 ZHE
Q1745-04	IB-6A-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311 ZHE
Q1745-12	IB-6.5-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311 ZHE
Q1746-02	B-149-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311 ZHE
Q1746-04	B-149-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/06/2025	1311 ZHE

Date/Time 04/07/25 14:10
 Raw Sample Received by: SP cool
 Raw Sample Relinquished by: X. () Gen

Date/Time 04/07/25 17:00
 Raw Sample Received by: J.C ()
 Raw Sample Relinquished by: SP cool