

Hit Summary Sheet
SW-846

SDG No.: Q1901
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q1901-08	B-167-SB01 B-167-SB01	TCLP	2-Butanone	39.6		0.98	25.0	ug/L
			Total Voc :	39.6				
			Total Concentration:	39.6				
Client ID: Q1901-09	B-170-SB01 B-170-SB01	TCLP	2-Butanone	36.5		0.98	25.0	ug/L
			Total Voc :	36.5				
			Total Concentration:	36.5				
Client ID: Q1901-10	B-167-SB02 B-167-SB02	TCLP	2-Butanone	46.0		0.98	25.0	ug/L
			Total Voc :	46.0				
			Total Concentration:	46.0				
Client ID: Q1901-11	B-170-SB02 B-170-SB02	TCLP	2-Butanone	36.6		0.98	25.0	ug/L
			Total Voc :	36.6				
			Total Concentration:	36.6				



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	04/26/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/28/25	
Client Sample ID:	B-167-SB01			SDG No.:	Q1901	
Lab Sample ID:	Q1901-08			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
VX045996.D	1		04/30/25 14:29	VX043025

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	39.6		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	56.6		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	57600	5.544			
540-36-3	1,4-Difluorobenzene	115000	6.757			
3114-55-4	Chlorobenzene-d5	106000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	41300	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:	04/26/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/28/25	
Client Sample ID:	B-170-SB01			SDG No.:	Q1901	
Lab Sample ID:	Q1901-09			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
VX045993.D	1		04/30/25 13:19	VX043025

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	36.5		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	55.8		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	51.4		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	62700	5.544			
540-36-3	1,4-Difluorobenzene	126000	6.757			
3114-55-4	Chlorobenzene-d5	120000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	50900	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	04/26/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/28/25	
Client Sample ID:	B-167-SB02			SDG No.:	Q1901	
Lab Sample ID:	Q1901-10			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
VX045994.D	1		04/30/25 13:42	VX043025

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	46.0		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	56.4		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		70 (75) - 130 (124)	107%	SPK: 50
2037-26-5	Toluene-d8	52.5		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.5		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	59700	5.55			
540-36-3	1,4-Difluorobenzene	119000	6.757			
3114-55-4	Chlorobenzene-d5	116000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	51100	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	04/26/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/28/25	
Client Sample ID:	B-170-SB02			SDG No.:	Q1901	
Lab Sample ID:	Q1901-11			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
VX046010.D	1		04/30/25 19:57	VX043025

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	36.6		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	54.4		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.8		70 (77) - 130 (121)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	65000	5.544			
540-36-3	1,4-Difluorobenzene	128000	6.757			
3114-55-4	Chlorobenzene-d5	120000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51900	12.018			

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QC SUMMARY

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1901-08	B-167-SB01	1,2-Dichloroethane-d4	50	56.6	113	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	103	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.2	98	70 (77)	130 (121)
Q1901-09	B-170-SB01	1,2-Dichloroethane-d4	50	55.8	112	70 (74)	130 (125)
		Dibromofluoromethane	50	52.8	106	70 (75)	130 (124)
		Toluene-d8	50	51.5	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.9	106	70 (77)	130 (121)
Q1901-10	B-167-SB02	1,2-Dichloroethane-d4	50	56.4	113	70 (74)	130 (125)
		Dibromofluoromethane	50	53.3	107	70 (75)	130 (124)
		Toluene-d8	50	52.5	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.5	111	70 (77)	130 (121)
Q1901-11	B-170-SB02	1,2-Dichloroethane-d4	50	54.4	109	70 (74)	130 (125)
		Dibromofluoromethane	50	50.6	101	70 (75)	130 (124)
		Toluene-d8	50	50.6	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.8	108	70 (77)	130 (121)

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VX0430WBL01	VX0430WBL01	1,2-Dichloroethane-d4	50	56.3	113	70 (74)	130 (125)
		Dibromofluoromethane	50	52.5	105	70 (75)	130 (124)
		Toluene-d8	50	50.4	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.9	104	70 (77)	130 (121)
VX0430WBS01	VX0430WBS01	1,2-Dichloroethane-d4	50	54.6	109	70 (74)	130 (125)
		Dibromofluoromethane	50	56.5	113	70 (75)	130 (124)
		Toluene-d8	50	52.1	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.7	111	70 (77)	130 (121)
VX0430WBSD0	VX0430WBSD01	1,2-Dichloroethane-d4	50	54.3	109	70 (74)	130 (125)
		Dibromofluoromethane	50	56.5	113	70 (75)	130 (124)
		Toluene-d8	50	52.0	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.5	113	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045988.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0430WBS01	Vinyl chloride	20	17.3	ug/L	86			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.5	ug/L	93			70 (74)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	21.8	ug/L	109			70 (77)	130 (113)	
	Chloroform	20	21.6	ug/L	108			70 (79)	130 (113)	
	Benzene	20	20.2	ug/L	101			70 (82)	130 (109)	
	1,2-Dichloroethane	20	22.8	ug/L	114			70 (80)	130 (115)	
	Trichloroethene	20	19.9	ug/L	100			70 (77)	130 (113)	
	Tetrachloroethene	20	19.0	ug/L	95			70 (67)	130 (123)	
	Chlorobenzene	20	21.3	ug/L	106			70 (82)	130 (109)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045989.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0430WBSD01	Vinyl chloride	20	16.6	ug/L	83	4		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	18.5	ug/L	93	0		70 (74)	130 (110)	20 (20)
	2-Butanone	100	120	ug/L	120	9		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	21.8	ug/L	109	0		70 (77)	130 (113)	20 (20)
	Chloroform	20	21.0	ug/L	105	3		70 (79)	130 (113)	20 (20)
	Benzene	20	20.1	ug/L	101	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	22.6	ug/L	113	1		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	20.2	ug/L	101	1		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	20.1	ug/L	101	6		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	20.8	ug/L	104	2		70 (82)	130 (109)	20 (20)

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0430WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1901

SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045987.D

Lab Sample ID: VX0430WBL01

Date Analyzed: 04/30/2025

Time Analyzed: 10:55

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
VX0430WBS01	VX0430WBS01	VX045988.D	04/30/2025
VX0430WBSD01	VX0430WBSD01	VX045989.D	04/30/2025
B-170-SB01	Q1901-09	VX045993.D	04/30/2025
B-167-SB02	Q1901-10	VX045994.D	04/30/2025
B-167-SB01	Q1901-08	VX045996.D	04/30/2025
B-170-SB02	Q1901-11	VX046010.D	04/30/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
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.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
Lab File ID: VX045984.D BFB Injection Date: 04/30/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:32
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	22.5
75	30.0 - 60.0% of mass 95	57.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	69.5
175	5.0 - 9.0% of mass 174	5.3 (7.7) 1
176	95.0 - 101.0% of mass 174	67.1 (96.5) 1
177	5.0 - 9.0% of mass 176	4.5 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045985.D	04/30/2025	10:01
VX0430WBL01	VX0430WBL01	VX045987.D	04/30/2025	10:55
VX0430WBS01	VX0430WBS01	VX045988.D	04/30/2025	11:19
VX0430WBSD01	VX0430WBSD01	VX045989.D	04/30/2025	11:46
B-170-SB01	Q1901-09	VX045993.D	04/30/2025	13:19
B-167-SB02	Q1901-10	VX045994.D	04/30/2025	13:42
B-167-SB01	Q1901-08	VX045996.D	04/30/2025	14:29
B-170-SB02	Q1901-11	VX046010.D	04/30/2025	19:57

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
 Lab File ID: VX045985.D Date Analyzed: 04/30/2025
 Instrument ID: MSVOA_X Time Analyzed: 10:01
 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	83019	5.55	141256	6.75	122754	10.05
UPPER LIMIT	166038	6.049	282512	7.25	245508	10.549
LOWER LIMIT	41509.5	5.049	70628	6.25	61377	9.549
EPA SAMPLE NO.						
B-167-SB01	57618	5.54	115466	6.76	105991	10.06
B-170-SB01	62684	5.54	125601	6.76	119798	10.05
B-167-SB02	59744	5.55	118644	6.76	115892	10.06
B-170-SB02	64982	5.54	127775	6.76	119826	10.05
VX0430WBL01	62274	5.54	125239	6.76	116463	10.05
VX0430WBS01	79591	5.54	138531	6.76	123154	10.05
VX0430WBSD01	77091	5.54	132529	6.76	119517	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.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
 Lab File ID: VX045985.D Date Analyzed: 04/30/2025
 Instrument ID: MSVOA_X Time Analyzed: 10:01
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	60558	12.018				
UPPER LIMIT	121116	12.518				
LOWER LIMIT	30279	11.518				
EPA SAMPLE NO.						
B-167-SB01	41285	12.02				
B-170-SB01	50854	12.02				
B-167-SB02	51062	12.02				
B-170-SB02	51937	12.02				
VX0430WBL01	49781	12.02				
VX0430WBS01	58135	12.02				
VX0430WBSD01	57970	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:	VX0430WBL01	SDG No.:	Q1901
Lab Sample ID:	VX0430WBL01	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
VX045987.D	1		04/30/25 10:55	VX043025

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	56.3		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.4		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	62300	5.544			
540-36-3	1,4-Difluorobenzene	125000	6.757			
3114-55-4	Chlorobenzene-d5	116000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	49800	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:	VX0430WBS01	SDG No.:	Q1901
Lab Sample ID:	VX0430WBS01	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
VX045988.D	1		04/30/25 11:19	VX043025

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	18.5		0.23	1.00	ug/L
78-93-3	2-Butanone	110		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.8		0.25	1.00	ug/L
67-66-3	Chloroform	21.6		0.25	1.00	ug/L
71-43-2	Benzene	20.2		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.8		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	21.3		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.6		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	56.5		70 (75) - 130 (124)	113%	SPK: 50
2037-26-5	Toluene-d8	52.1		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	79600	5.544			
540-36-3	1,4-Difluorobenzene	139000	6.757			
3114-55-4	Chlorobenzene-d5	123000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	58100	12.018			

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0430WBSD01	SDG No.:	Q1901
Lab Sample ID:	VX0430WBSD01	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
VX045989.D	1		04/30/25 11:46	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.6		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	1.00	ug/L
78-93-3	2-Butanone	120		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.8		0.25	1.00	ug/L
67-66-3	Chloroform	21.0		0.25	1.00	ug/L
71-43-2	Benzene	20.1		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.2		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	20.1		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.8		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.3		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	56.5		70 (75) - 130 (124)	113%	SPK: 50
2037-26-5	Toluene-d8	52.0		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.5		70 (77) - 130 (121)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	77100	5.544			
540-36-3	1,4-Difluorobenzene	133000	6.757			
3114-55-4	Chlorobenzene-d5	120000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	58000	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.: Q1901 SAS No.: Q1901 SDG No.: Q1901
 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.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_X Calibration Date/Time: 04/30/2025 10:01

Lab File ID: VX045985.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	0.712		1.28	20
1,1-Dichloroethene	0.600	0.646		7.67	20
2-Butanone	0.550	0.628		14.18	20
Carbon Tetrachloride	0.518	0.632		22.01	20
Chloroform	1.306	1.474		12.86	20
Benzene	1.463	1.629		11.35	20
1,2-Dichloroethane	0.604	0.716		18.54	20
Trichloroethene	0.348	0.381		9.48	20
Tetrachloroethene	0.353	0.398		12.75	20
Chlorobenzene	1.068	1.246	0.3	16.67	20
1,2-Dichloroethane-d4	0.914	0.976		6.78	20
Dibromofluoromethane	0.355	0.405		14.09	20
Toluene-d8	1.238	1.287		3.96	20
4-Bromofluorobenzene	0.451	0.514		13.97	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\VX043025\
 Data File : VX045996.D
 Acq On : 30 Apr 2025 14:29
 Operator : JC/MD
 Sample : Q1901-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-167-SB01

A
B
C
D
E
F
G
H
I
J
K

Quant Time: May 01 03:37:20 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)

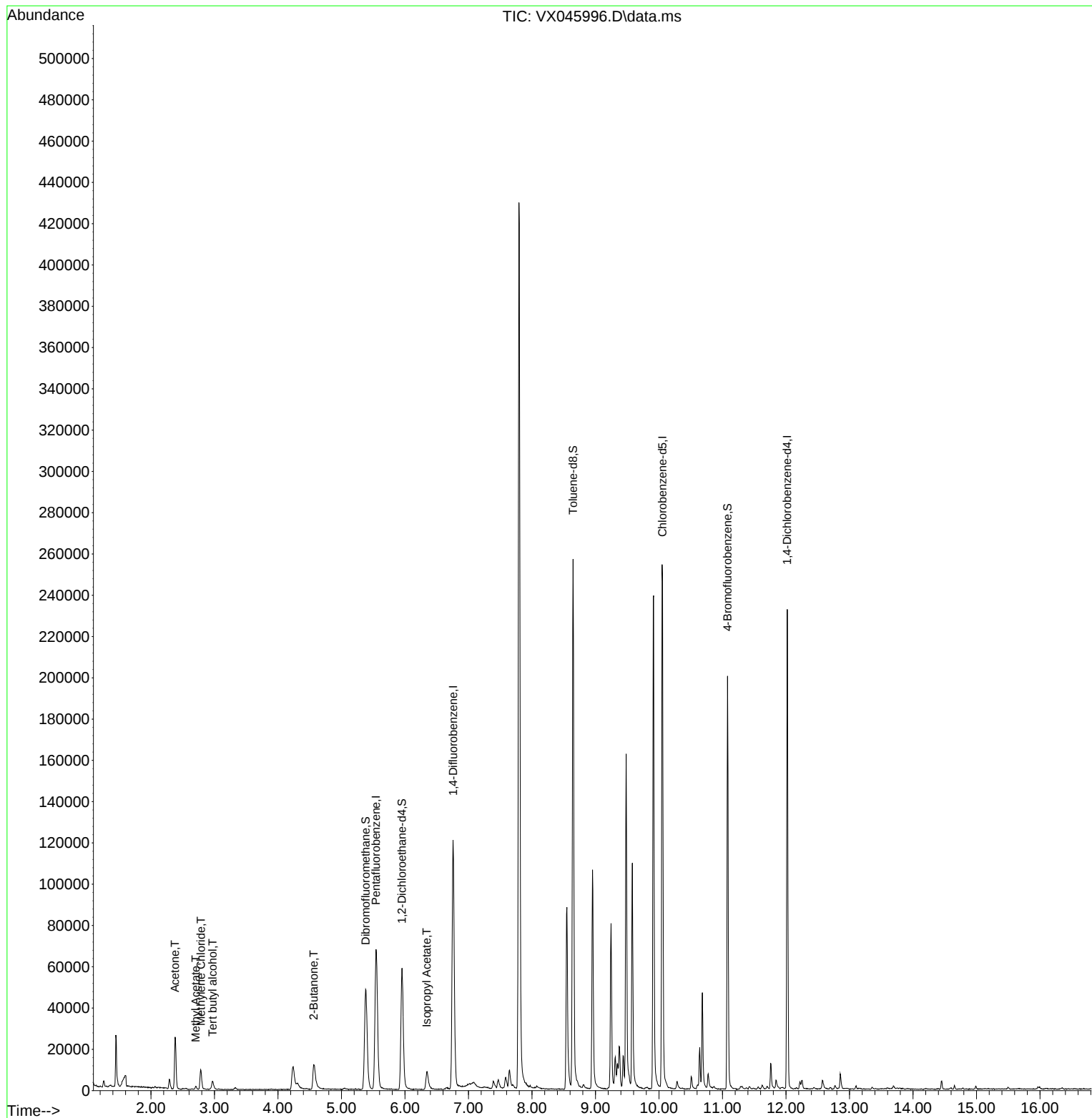
Internal Standards						
1) Pentafluorobenzene	5.544	168	57618	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	115466	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	105991	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	41285	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	59663	56.623	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.240%			
35) Dibromofluoromethane	5.379	113	42394	51.748	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.500%			
50) Toluene-d8	8.647	98	144482	50.528	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.060%			
62) 4-Bromofluorobenzene	11.079	95	51275	49.229	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.460%			
Target Compounds						Qvalue
11) Tert butyl alcohol	2.971	59	4349	30.712	ug/l	95
16) Acetone	2.380	43	28256	65.306	ug/l	96
18) Methyl Acetate	2.703	43	1872	1.879	ug/l	97
20) Methylene Chloride	2.788	84	4330	5.346	ug/l	97
25) 2-Butanone	4.562	43	25058	39.565	ug/l	99
43) Isopropyl Acetate	6.342	43	13387	6.336	ug/l	98

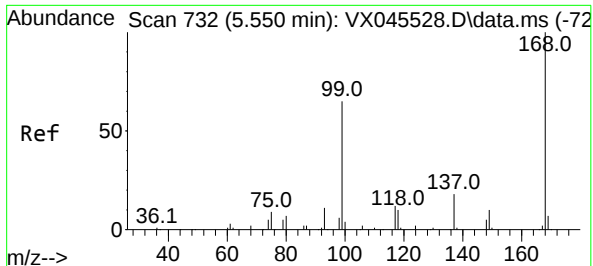
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045996.D
Acq On : 30 Apr 2025 14:29
Operator : JC/MD
Sample : Q1901-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB01

Quant Time: May 01 03:37:20 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: VX045996.D

Acq: 30 Apr 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

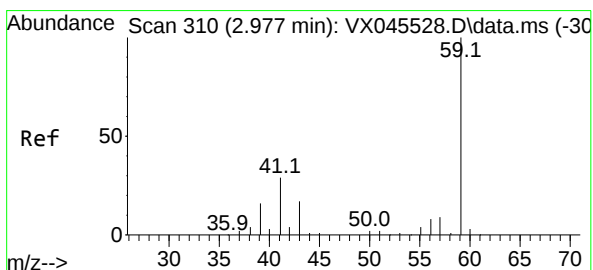
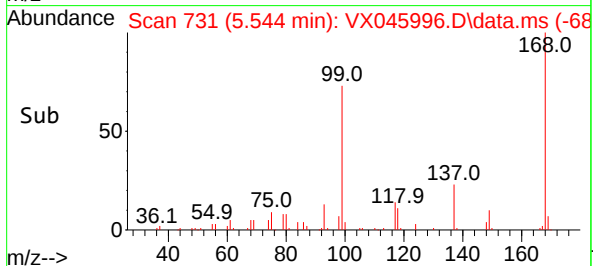
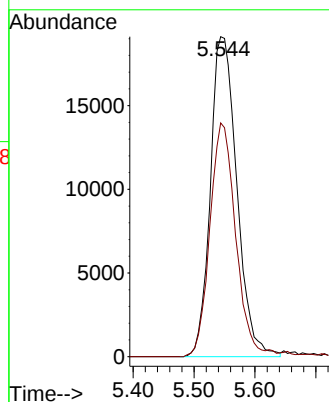
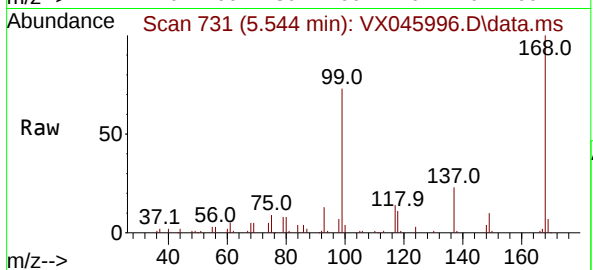
B-167-SB01

Tgt Ion:168 Resp: 57618

Ion Ratio Lower Upper

168 100

99 73.0 52.3 78.5



#11

Tert butyl alcohol

Concen: 30.712 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.006 min

Lab File: VX045996.D

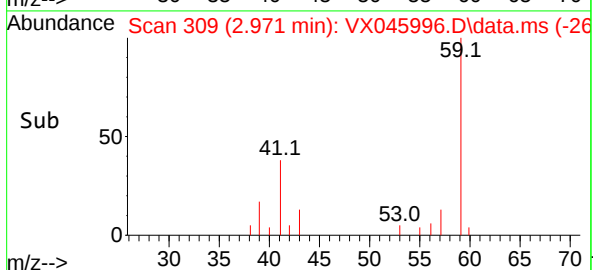
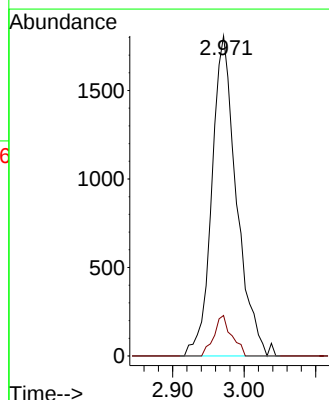
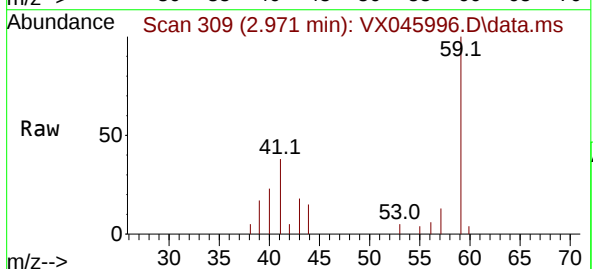
Acq: 30 Apr 2025 14:29

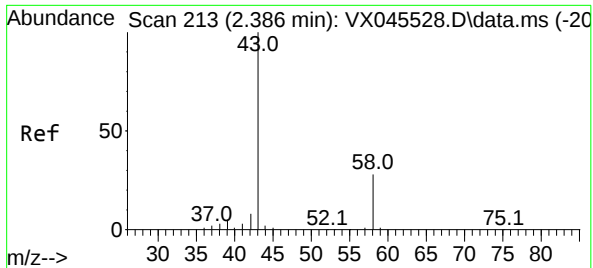
Tgt Ion: 59 Resp: 4349

Ion Ratio Lower Upper

59 100

57 9.0 8.6 12.8

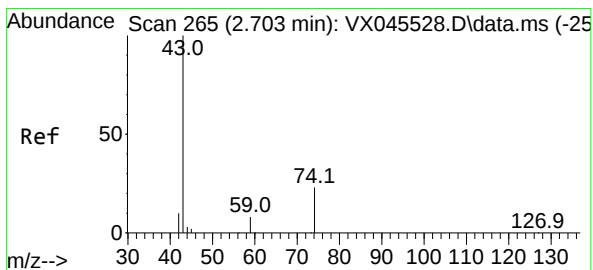
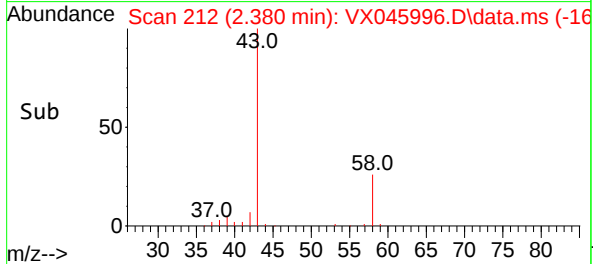
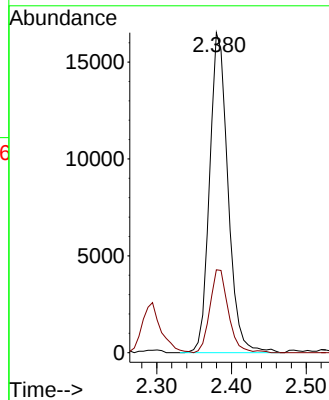
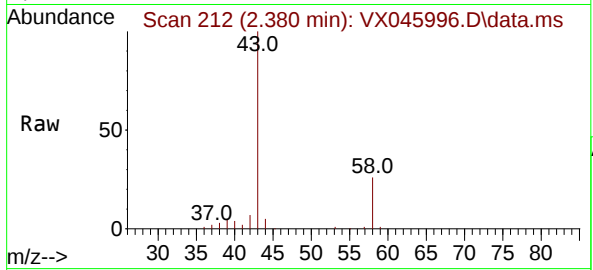




#16
Acetone
Concen: 65.306 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

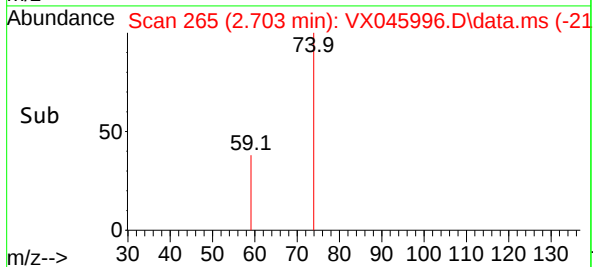
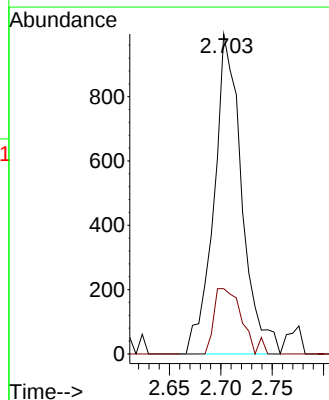
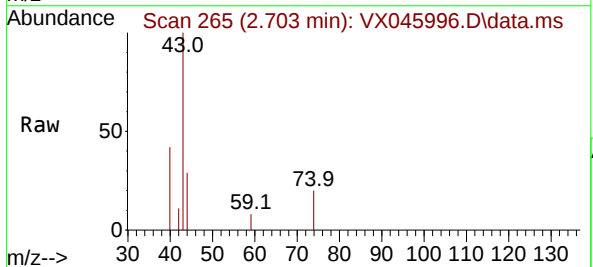
Instrument :
MSVOA_X
ClientSampleId :
B-167-SB01

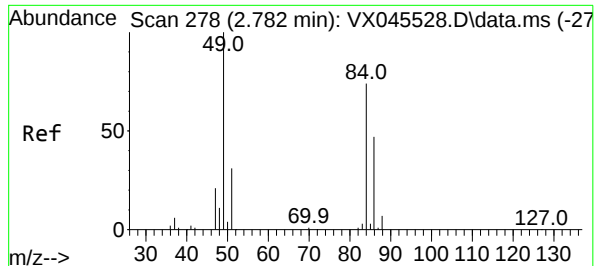
Tgt Ion: 43 Resp: 28256
Ion Ratio Lower Upper
43 100
58 25.9 22.3 33.5



#18
Methyl Acetate
Concen: 1.879 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045996.D
Acq: 30 Apr 2025 14:29

Tgt Ion: 43 Resp: 1872
Ion Ratio Lower Upper
43 100
74 20.4 17.5 26.3





#20

Methylene Chloride

Concen: 5.346 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX045996.D

Acq: 30 Apr 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

B-167-SB01

Tgt Ion: 84 Resp: 4330

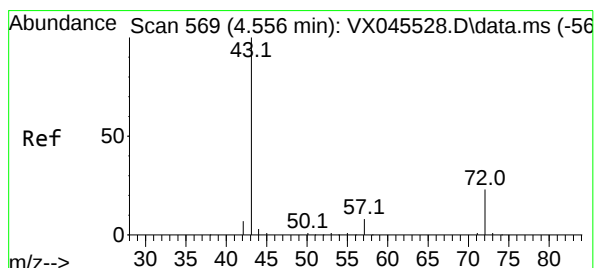
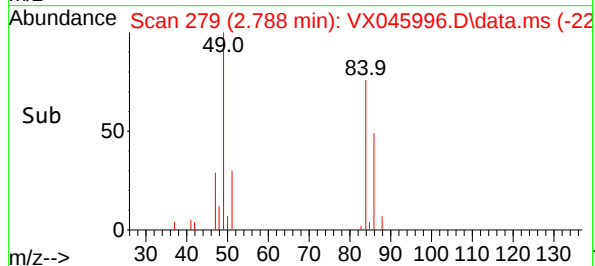
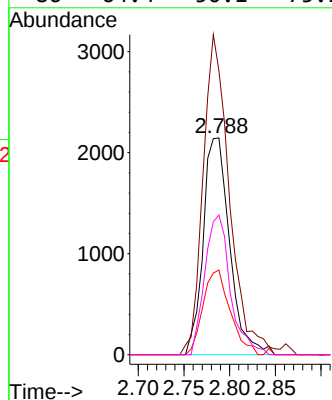
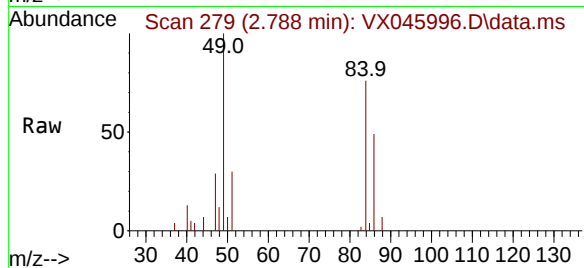
Ion Ratio Lower Upper

84 100

49 131.0 107.5 161.3

51 39.0 33.0 49.6

86 64.4 50.1 75.1



#25

2-Butanone

Concen: 39.565 ug/l

RT: 4.562 min Scan# 570

Delta R.T. 0.006 min

Lab File: VX045996.D

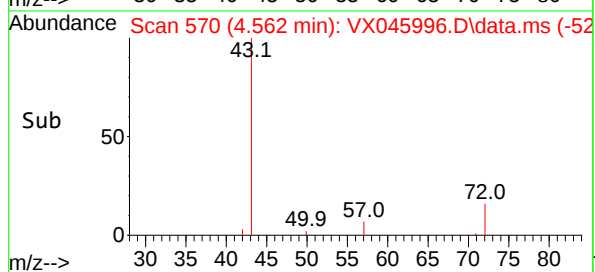
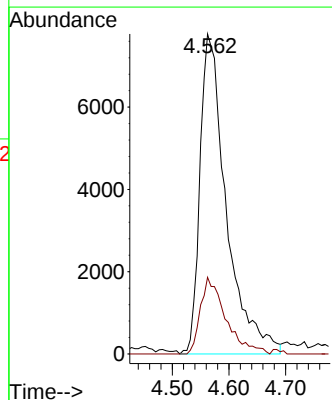
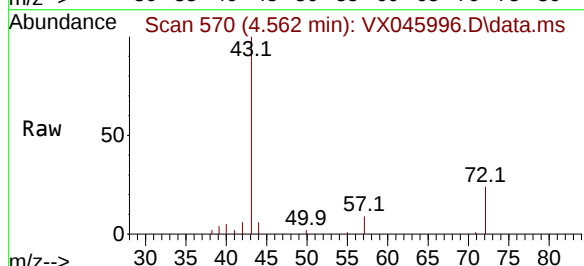
Acq: 30 Apr 2025 14:29

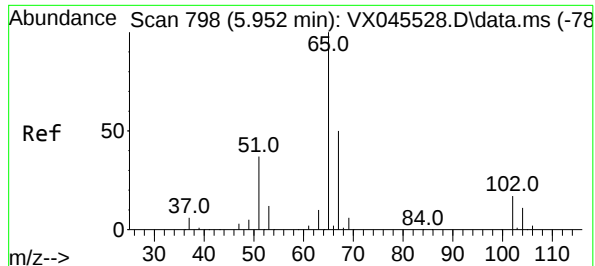
Tgt Ion: 43 Resp: 25058

Ion Ratio Lower Upper

43 100

72 24.0 18.6 28.0





#33

1,2-Dichloroethane-d4

Concen: 56.623 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045996.D

Acq: 30 Apr 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

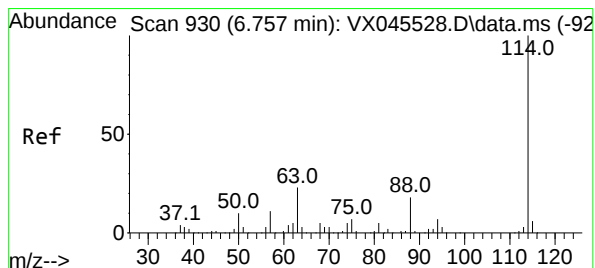
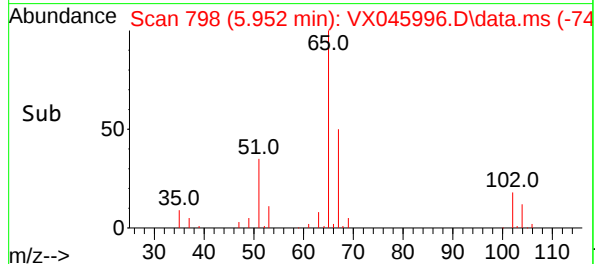
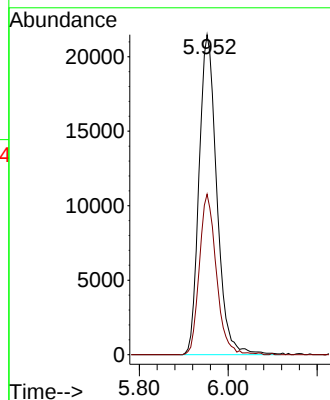
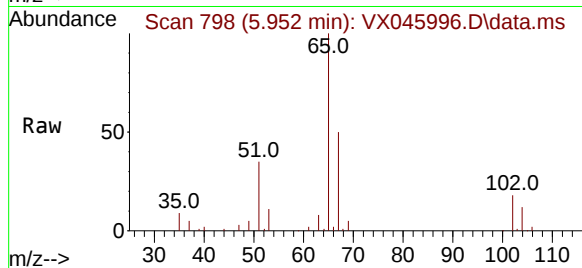
B-167-SB01

Tgt Ion: 65 Resp: 59663

Ion Ratio Lower Upper

65 100

67 48.2 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045996.D

Acq: 30 Apr 2025 14:29

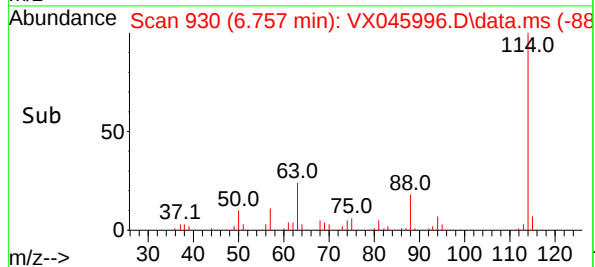
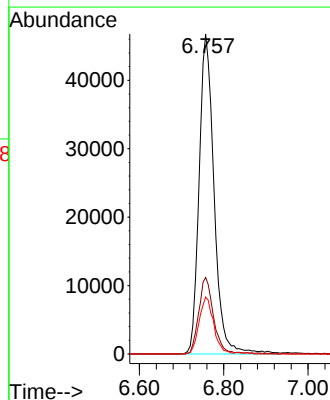
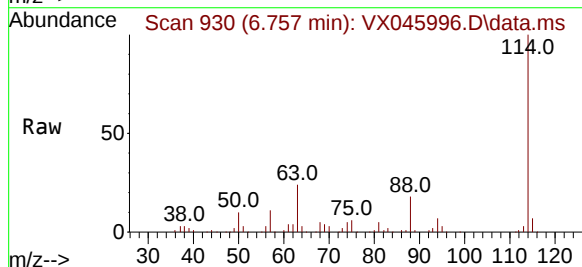
Tgt Ion: 114 Resp: 115466

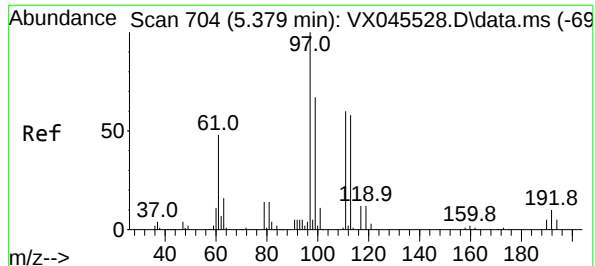
Ion Ratio Lower Upper

114 100

63 23.9 0.0 46.8

88 17.8 0.0 35.4





#35

Dibromofluoromethane

Concen: 51.748 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045996.D

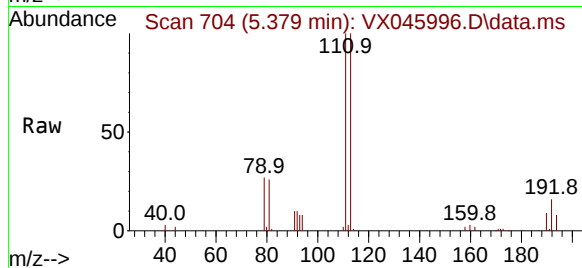
Acq: 30 Apr 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

B-167-SB01



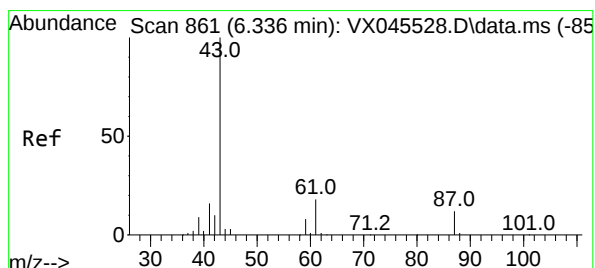
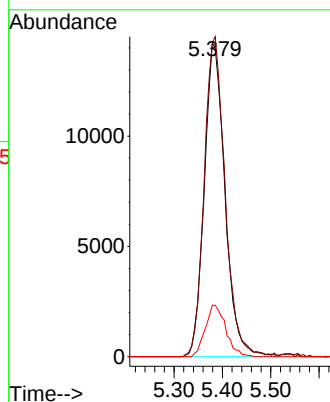
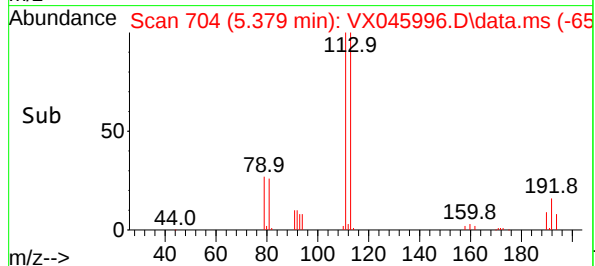
Tgt Ion:113 Resp: 42394

Ion Ratio Lower Upper

113 100

111 102.7 81.8 122.6

192 16.2 13.8 20.6



#43

Isopropyl Acetate

Concen: 6.336 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.006 min

Lab File: VX045996.D

Acq: 30 Apr 2025 14:29

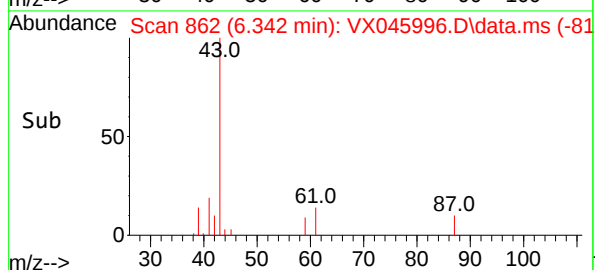
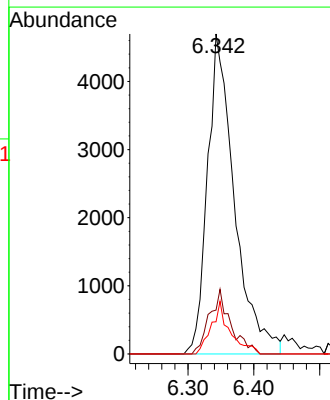
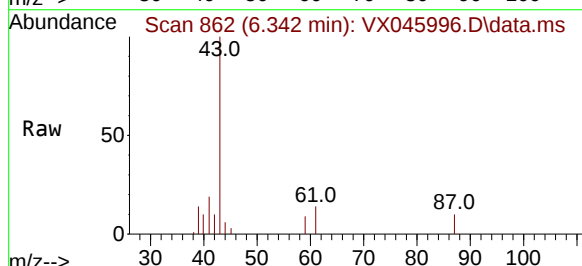
Tgt Ion: 43 Resp: 13387

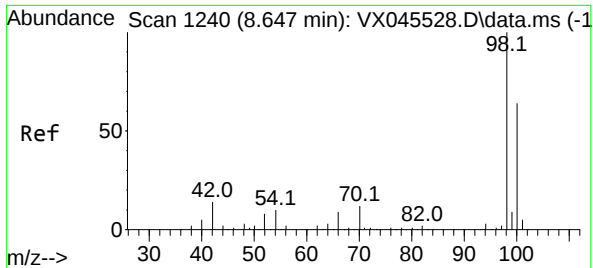
Ion Ratio Lower Upper

43 100

61 16.0 14.1 21.1

87 11.4 9.2 13.8





#50

Toluene-d8

Concen: 50.528 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045996.D

Acq: 30 Apr 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

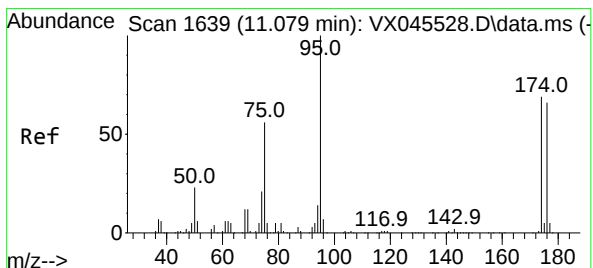
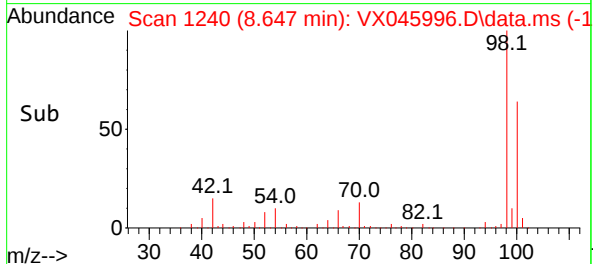
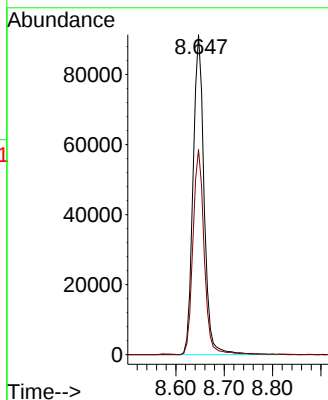
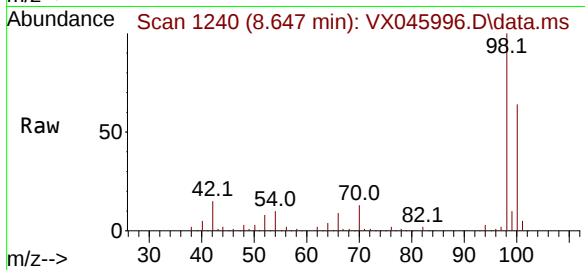
B-167-SB01

Tgt Ion: 98 Resp: 144482

Ion Ratio Lower Upper

98 100

100 65.5 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 49.229 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045996.D

Acq: 30 Apr 2025 14:29

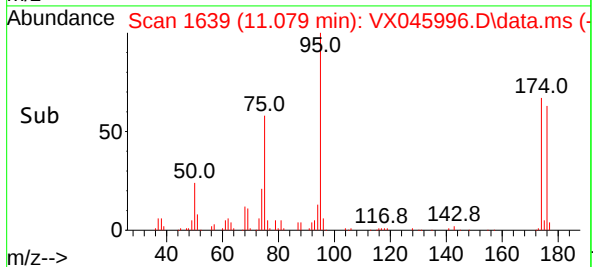
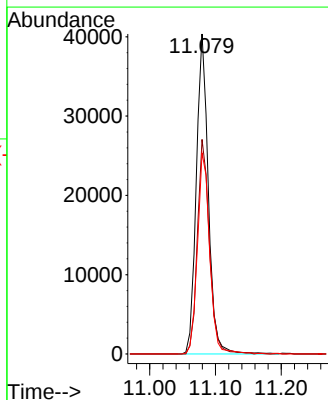
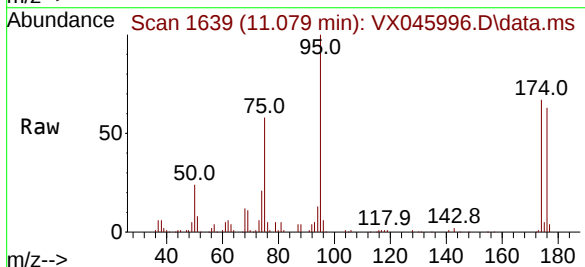
Tgt Ion: 95 Resp: 51275

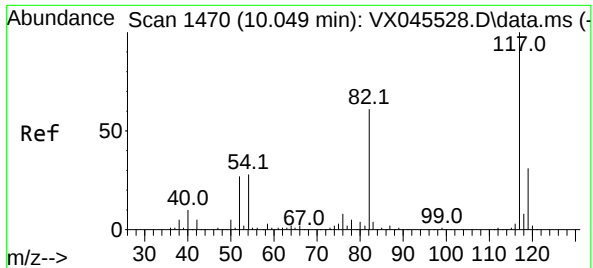
Ion Ratio Lower Upper

95 100

174 67.3 0.0 135.8

176 64.3 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX045996.D

Acq: 30 Apr 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

B-167-SB01

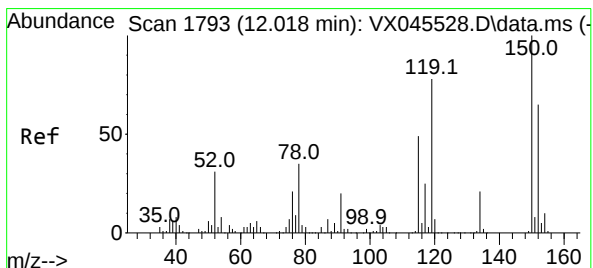
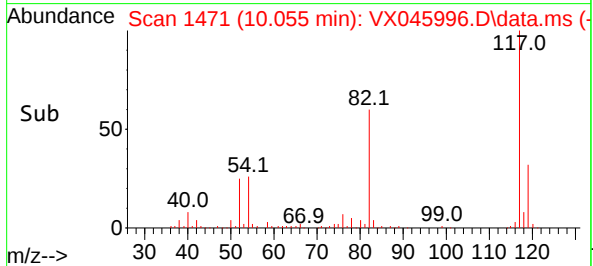
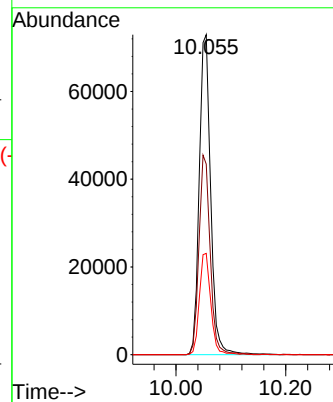
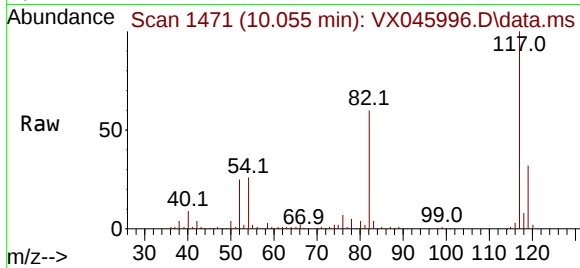
Tgt Ion:117 Resp: 105991

Ion Ratio Lower Upper

117 100

82 59.5 49.2 73.8

119 31.6 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: VX045996.D

Acq: 30 Apr 2025 14:29

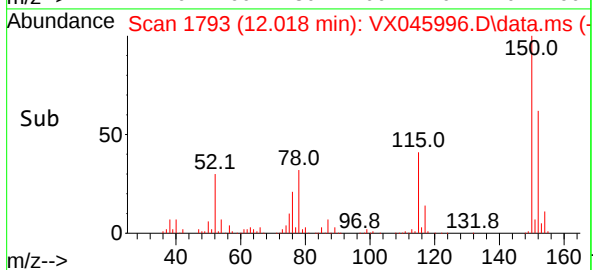
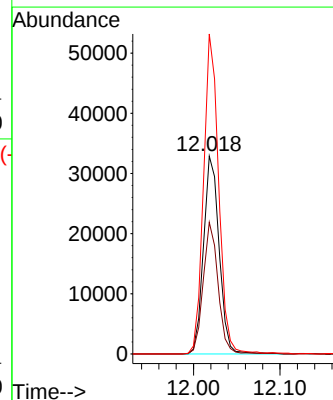
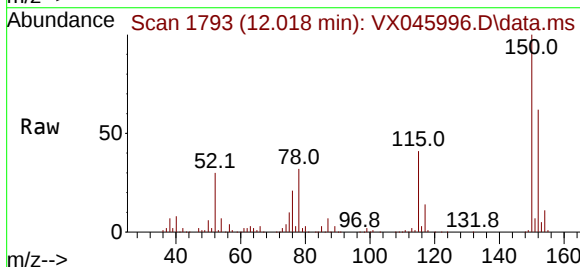
Tgt Ion:152 Resp: 41285

Ion Ratio Lower Upper

152 100

115 63.5 46.9 140.7

150 156.8 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
 Data File : VX045993.D
 Acq On : 30 Apr 2025 13:19
 Operator : JC/MD
 Sample : Q1901-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-170-SB01

A
B
C
D
E
F
G
H
I
J
K

Quant Time: May 01 03:36:46 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)

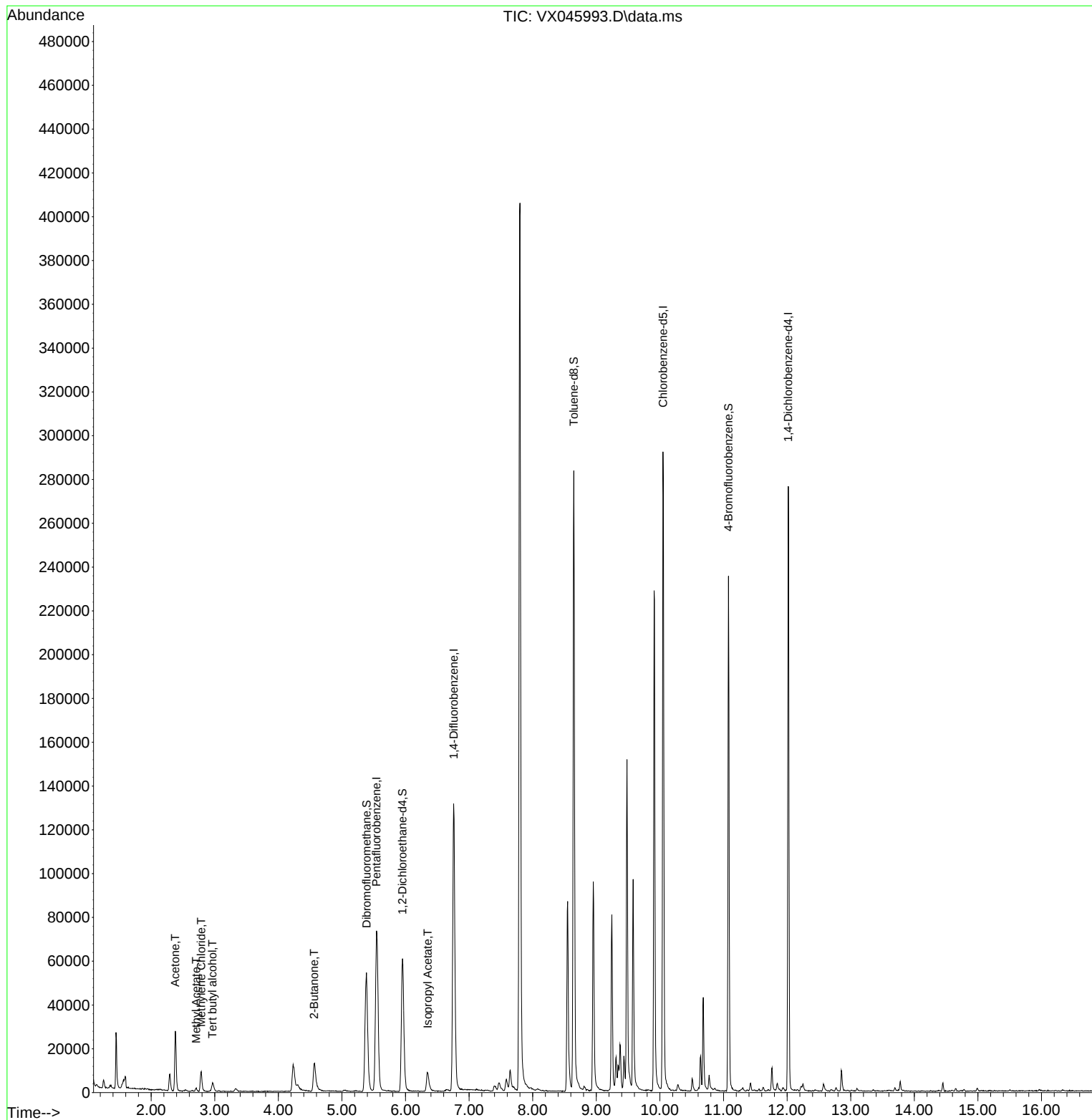
Internal Standards						
1) Pentafluorobenzene	5.544	168	62684	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	125601	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	119798	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50854	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63996	55.827	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 111.660%	
35) Dibromofluoromethane	5.385	113	47092	52.845	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.680%	
50) Toluene-d8	8.647	98	160020	51.446	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.900%	
62) 4-Bromofluorobenzene	11.079	95	59966	52.928	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 105.860%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.965	59	4197	27.243	ug/l	98
16) Acetone	2.380	43	29145	61.917	ug/l	98
18) Methyl Acetate	2.709	43	1813	1.673	ug/l #	85
20) Methylene Chloride	2.788	84	4107	4.661	ug/l	95
25) 2-Butanone	4.562	43	25122	36.460	ug/l	99
43) Isopropyl Acetate	6.348	43	13171	5.731	ug/l	99

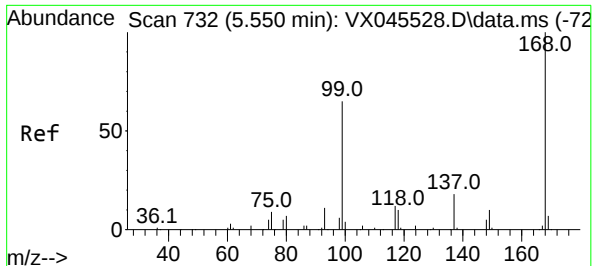
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045993.D
Acq On : 30 Apr 2025 13:19
Operator : JC/MD
Sample : Q1901-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

Quant Time: May 01 03:36:46 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

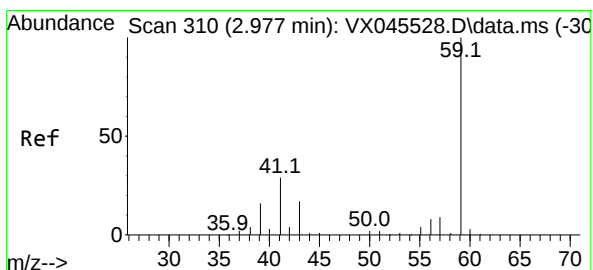
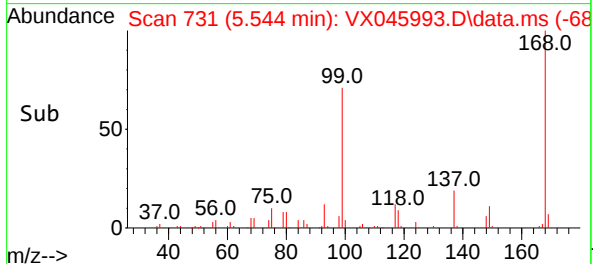
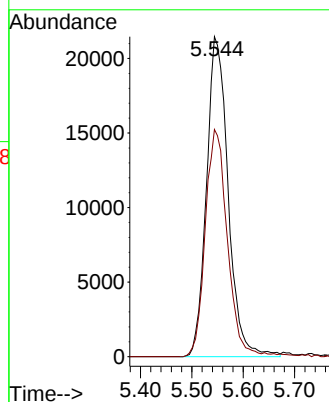
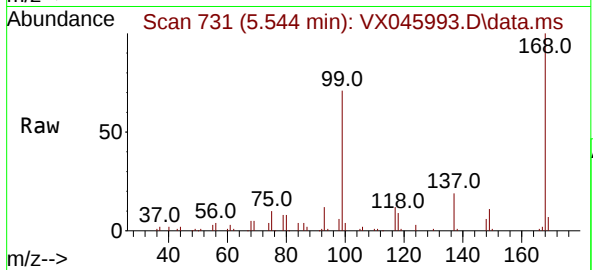




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

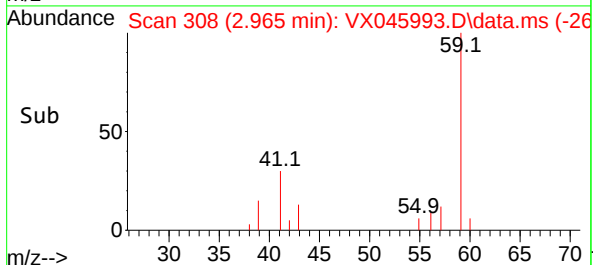
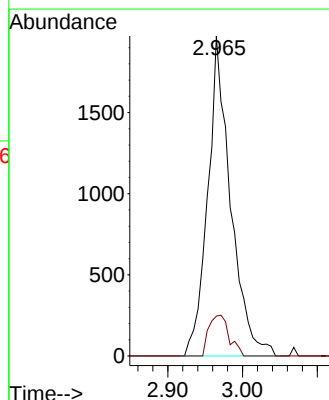
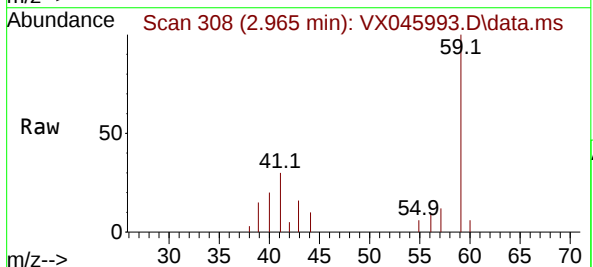
Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

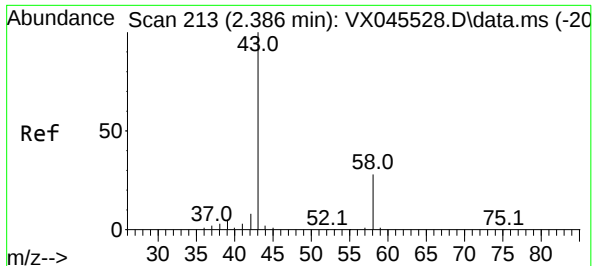
Tgt Ion:168 Resp: 62684
Ion Ratio Lower Upper
168 100
99 71.0 52.3 78.5



#11
Tert butyl alcohol
Concen: 27.243 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.012 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Tgt Ion: 59 Resp: 4197
Ion Ratio Lower Upper
59 100
57 11.3 8.6 12.8

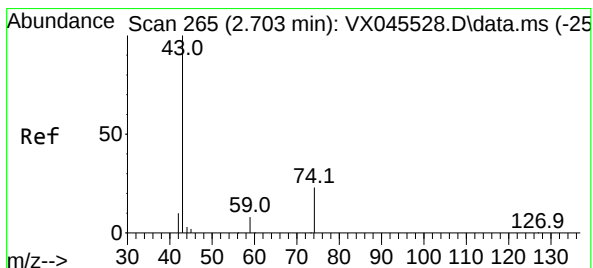
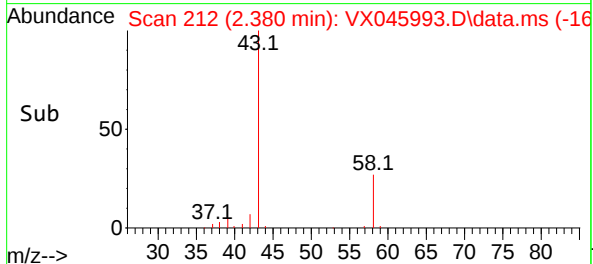
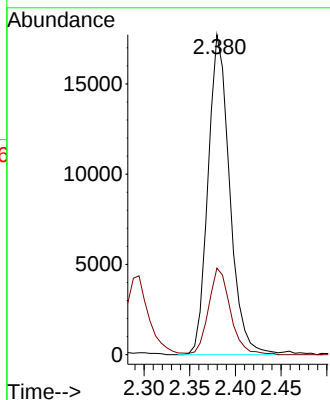
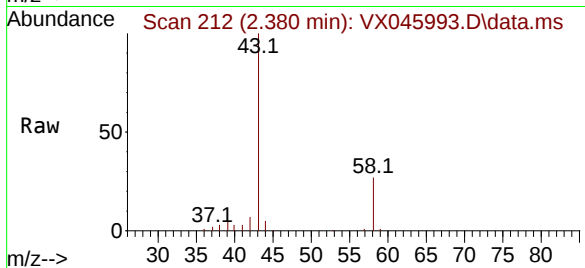




#16
Acetone
Concen: 61.917 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

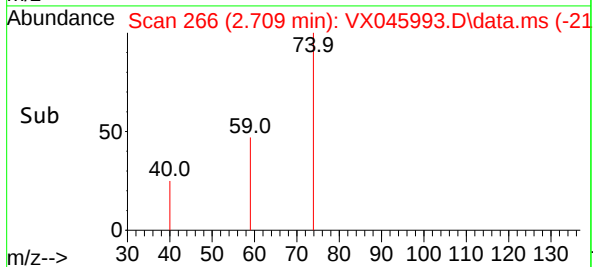
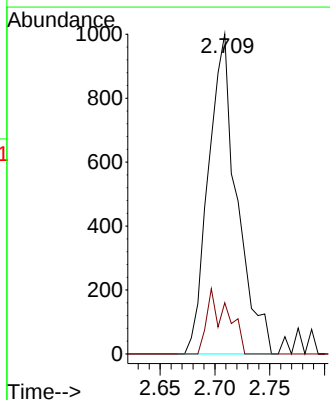
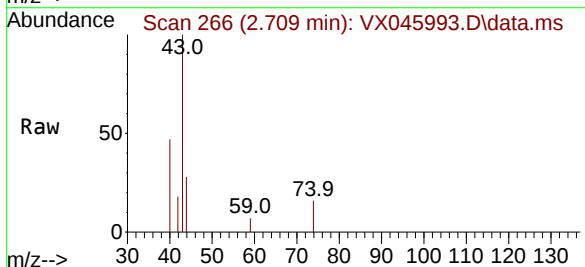
Instrument :
MSVOA_X
ClientSampleId :
B-170-SB01

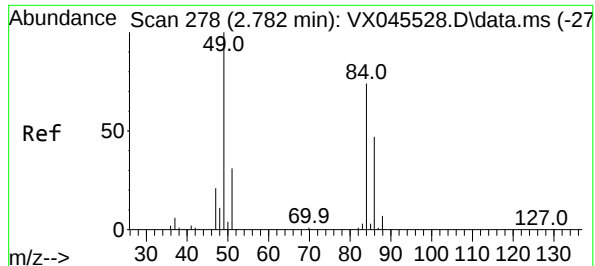
Tgt Ion:	43	Resp:	29145
Ion Ratio	Lower	Upper	
43	100		
58	27.1	22.3	33.5



#18
Methyl Acetate
Concen: 1.673 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045993.D
Acq: 30 Apr 2025 13:19

Tgt Ion:	43	Resp:	1813
Ion Ratio	Lower	Upper	
43	100		
74	14.7	17.5	26.3#





#20

Methylene Chloride

Concen: 4.661 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX045993.D

Acq: 30 Apr 2025 13:19

Instrument :

MSVOA_X

ClientSampleId :

B-170-SB01

Tgt Ion: 84 Resp: 4107

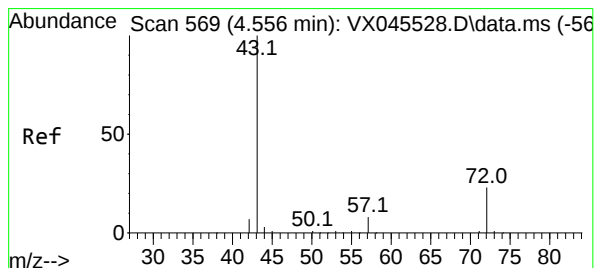
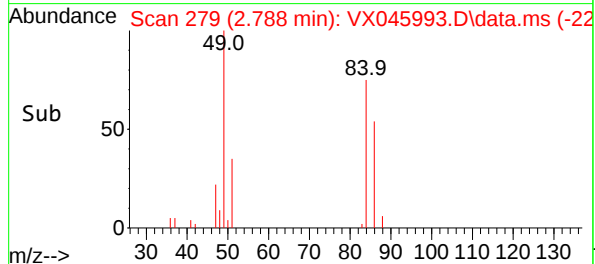
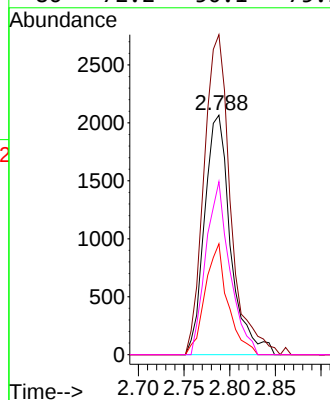
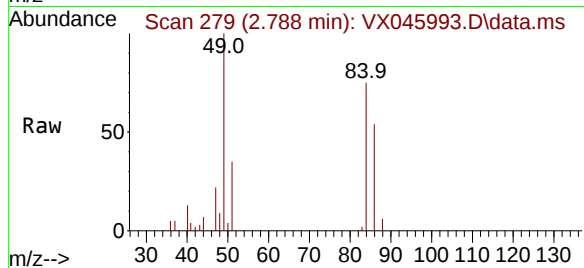
Ion Ratio Lower Upper

84 100

49 133.6 107.5 161.3

51 46.3 33.0 49.6

86 72.2 50.1 75.1



#25

2-Butanone

Concen: 36.460 ug/l

RT: 4.562 min Scan# 570

Delta R.T. 0.006 min

Lab File: VX045993.D

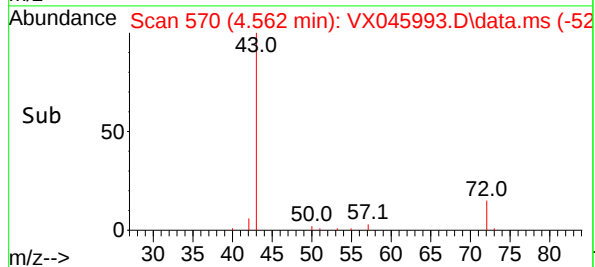
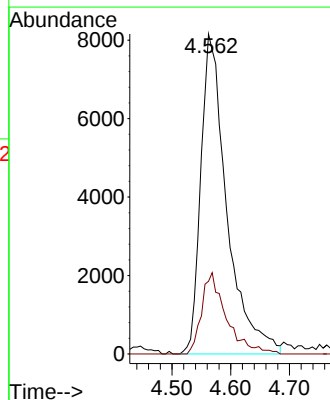
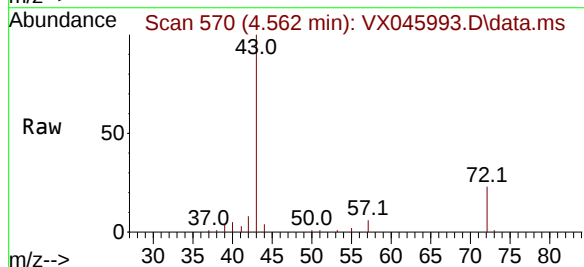
Acq: 30 Apr 2025 13:19

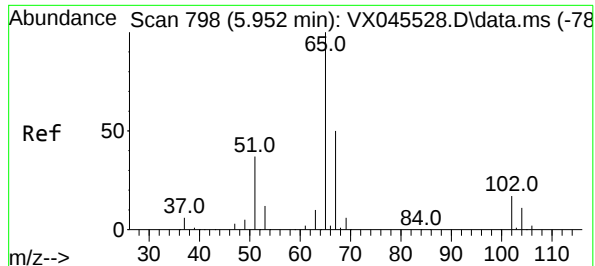
Tgt Ion: 43 Resp: 25122

Ion Ratio Lower Upper

43 100

72 22.7 18.6 28.0





#33

1,2-Dichloroethane-d4

Concen: 55.827 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045993.D

Acq: 30 Apr 2025 13:19

Instrument :

MSVOA_X

ClientSampleId :

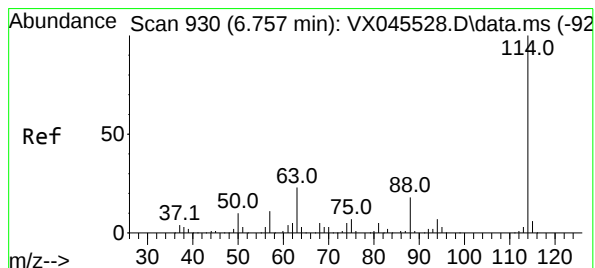
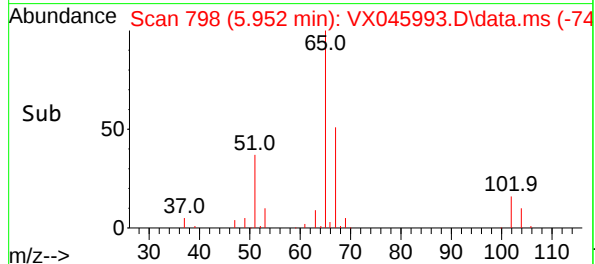
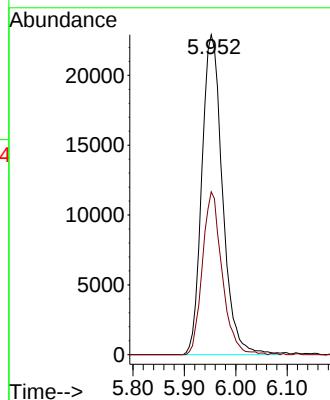
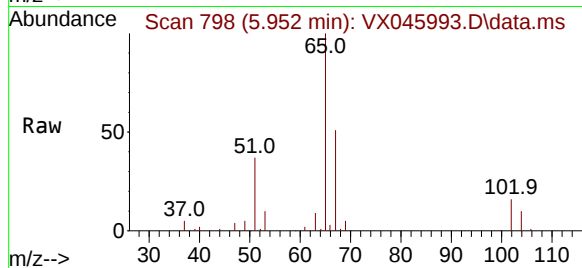
B-170-SB01

Tgt Ion: 65 Resp: 63996

Ion Ratio Lower Upper

65 100

67 48.5 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045993.D

Acq: 30 Apr 2025 13:19

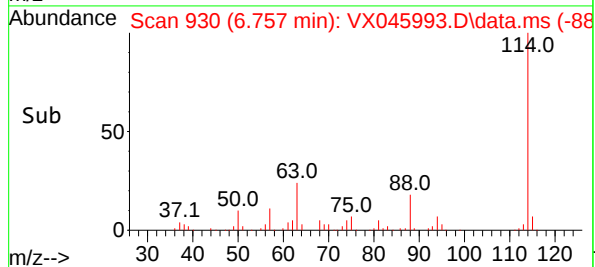
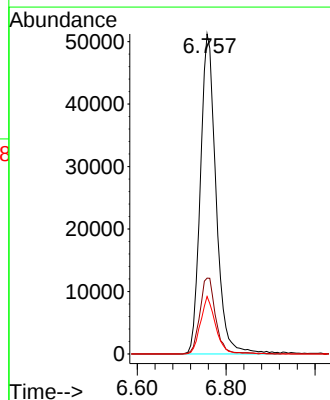
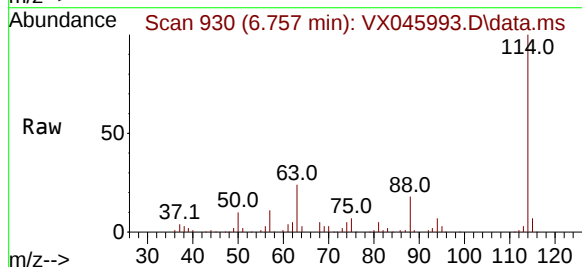
Tgt Ion: 114 Resp: 125601

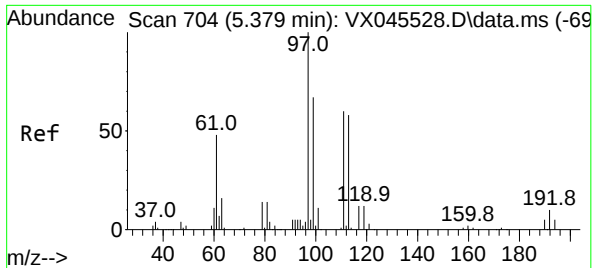
Ion Ratio Lower Upper

114 100

63 23.7 0.0 46.8

88 17.9 0.0 35.4





#35

Dibromofluoromethane

Concen: 52.845 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX045993.D

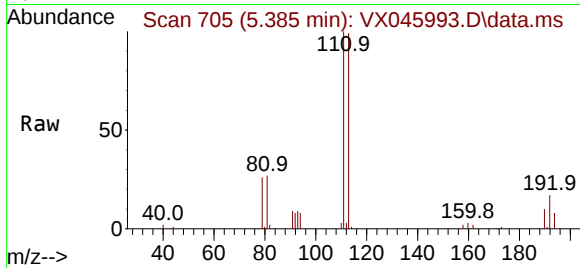
Acq: 30 Apr 2025 13:19

Instrument :

MSVOA_X

ClientSampleId :

B-170-SB01



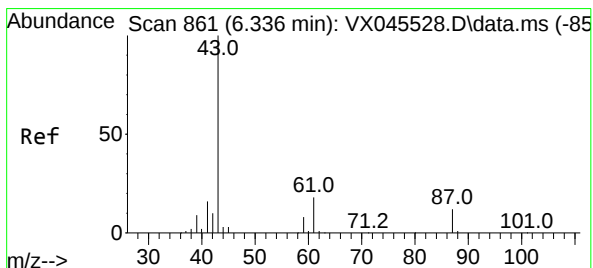
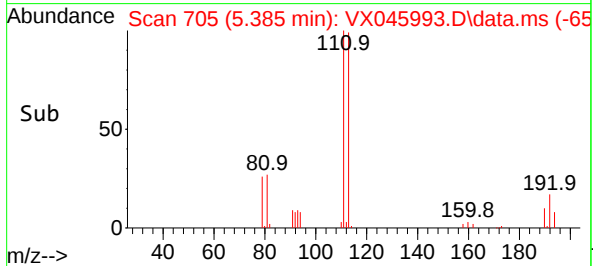
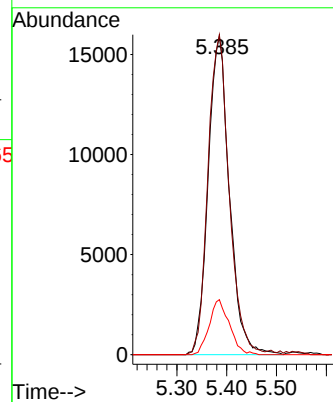
Tgt Ion:113 Resp: 47092

Ion Ratio Lower Upper

113 100

111 100.4 81.8 122.6

192 16.5 13.8 20.6



#43

Isopropyl Acetate

Concen: 5.731 ug/l

RT: 6.348 min Scan# 863

Delta R.T. 0.012 min

Lab File: VX045993.D

Acq: 30 Apr 2025 13:19

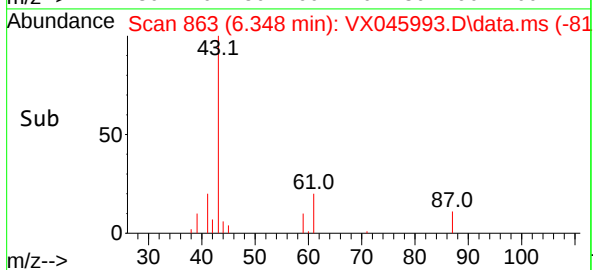
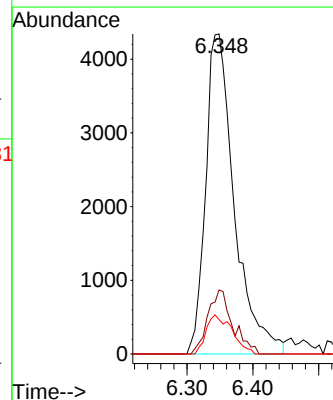
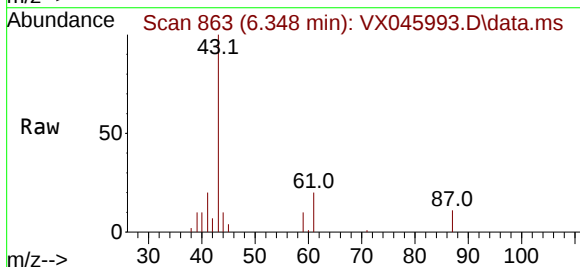
Tgt Ion: 43 Resp: 13171

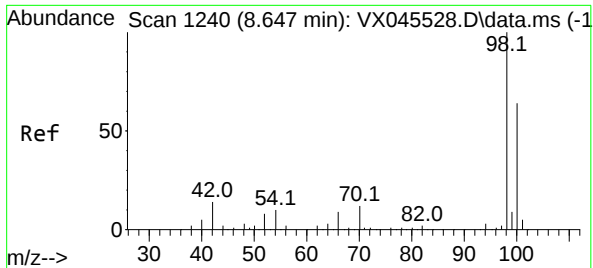
Ion Ratio Lower Upper

43 100

61 17.3 14.1 21.1

87 11.0 9.2 13.8





#50

Toluene-d8

Concen: 51.446 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX045993.D

Acq: 30 Apr 2025 13:19

Instrument :

MSVOA_X

ClientSampleId :

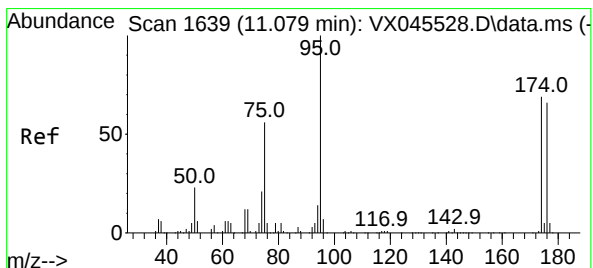
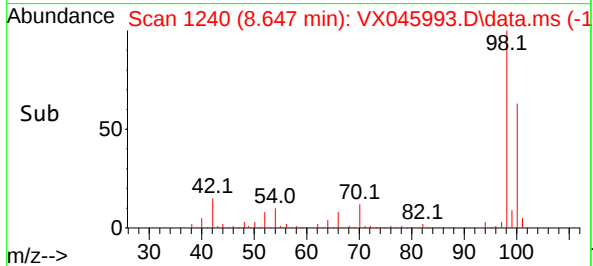
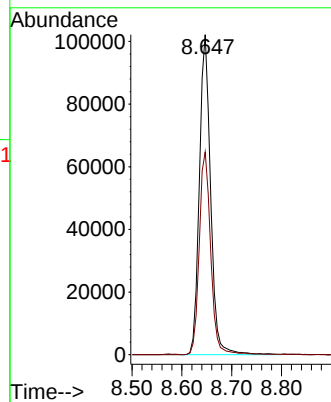
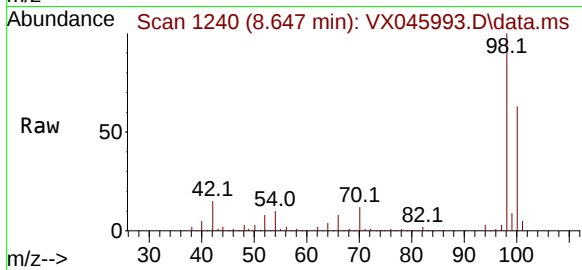
B-170-SB01

Tgt Ion: 98 Resp: 160020

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 52.928 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045993.D

Acq: 30 Apr 2025 13:19

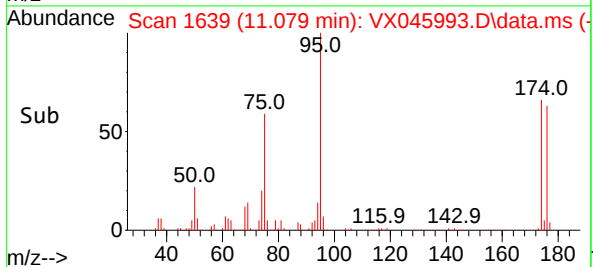
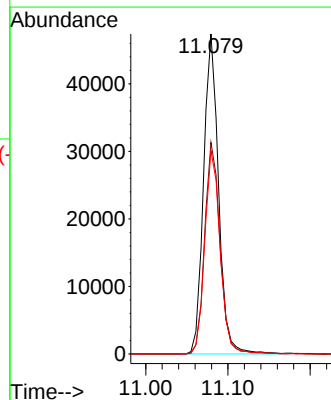
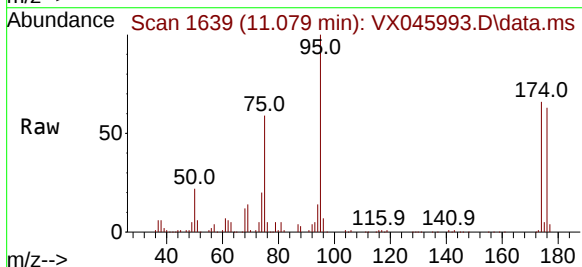
Tgt Ion: 95 Resp: 59966

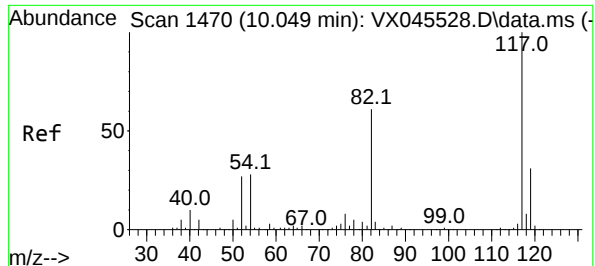
Ion Ratio Lower Upper

95 100

174 68.0 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: VX045993.D

Acq: 30 Apr 2025 13:19

Instrument :

MSVOA_X

ClientSampleId :

B-170-SB01

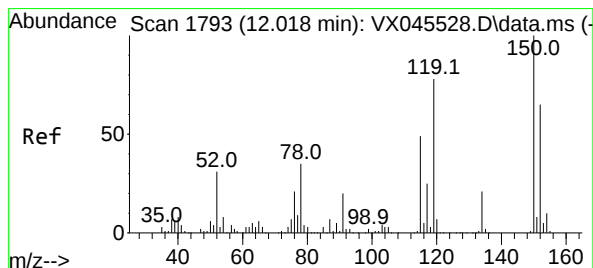
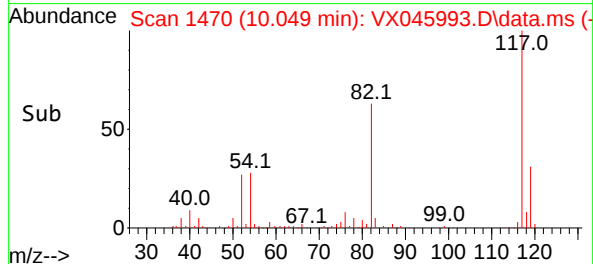
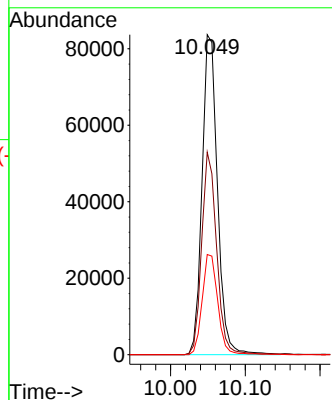
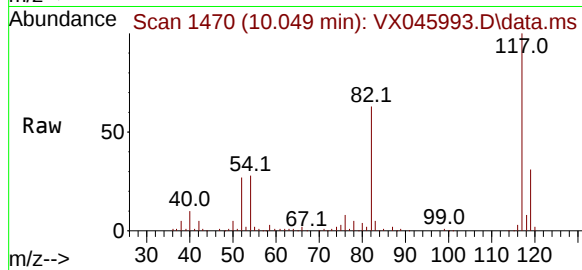
Tgt Ion:117 Resp: 119798

Ion Ratio Lower Upper

117 100

82 63.3 49.2 73.8

119 31.3 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: VX045993.D

Acq: 30 Apr 2025 13:19

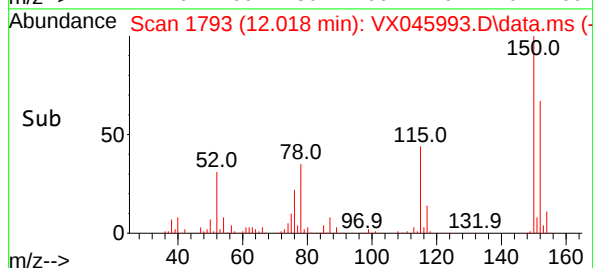
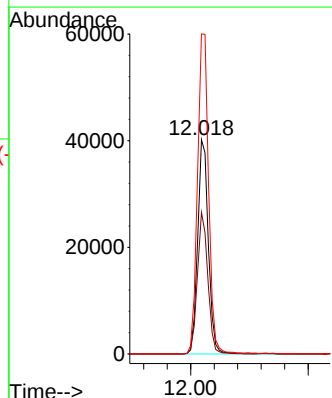
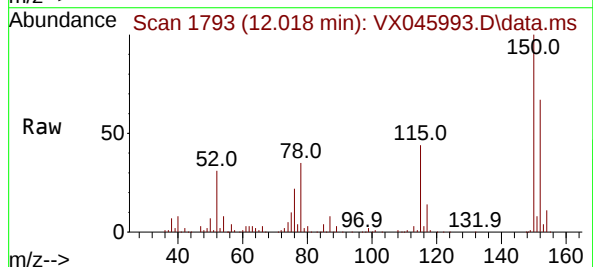
Tgt Ion:152 Resp: 50854

Ion Ratio Lower Upper

152 100

115 64.6 46.9 140.7

150 155.2 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
 Data File : VX045994.D
 Acq On : 30 Apr 2025 13:42
 Operator : JC/MD
 Sample : Q1901-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-167-SB02

A
B
C
D
E
F
G
H
I
J
K

Quant Time: May 01 03:36:58 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)

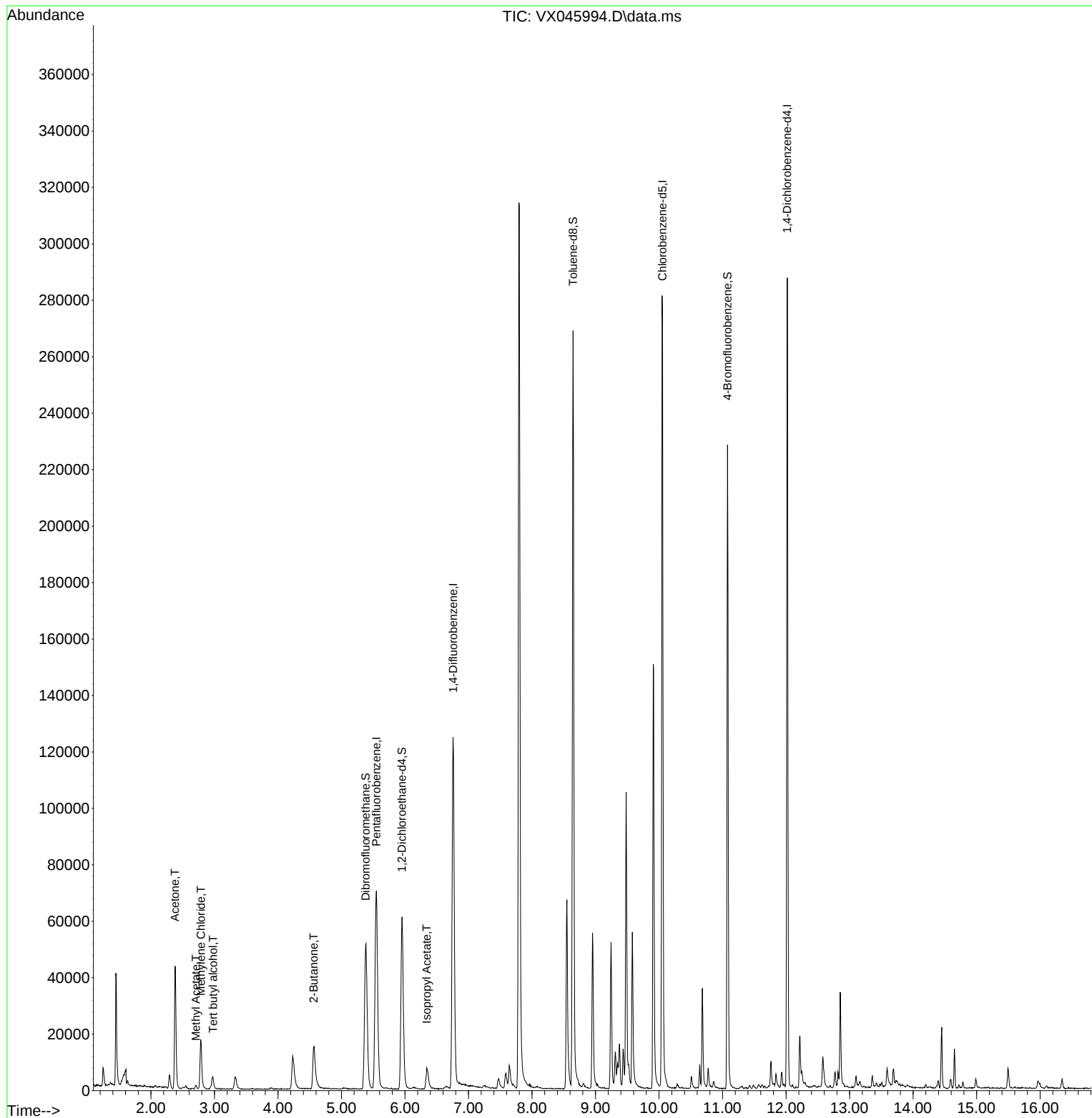
Internal Standards						
1) Pentafluorobenzene	5.550	168	59744	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	118644	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	115892	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51062	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61574	56.357	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.720%			
35) Dibromofluoromethane	5.379	113	44834	53.261	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.520%			
50) Toluene-d8	8.647	98	154167	52.471	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.940%			
62) 4-Bromofluorobenzene	11.079	95	59351	55.457	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.920%			
Target Compounds						Qvalue
11) Tert butyl alcohol	2.977	59	4582	31.206	ug/l	99
16) Acetone	2.380	43	46453	103.543	ug/l	98
18) Methyl Acetate	2.709	43	1797	1.740	ug/l	99
20) Methylene Chloride	2.788	84	8072	9.611	ug/l	94
25) 2-Butanone	4.562	43	30197	45.982	ug/l	97
43) Isopropyl Acetate	6.342	43	10597	4.881	ug/l	98

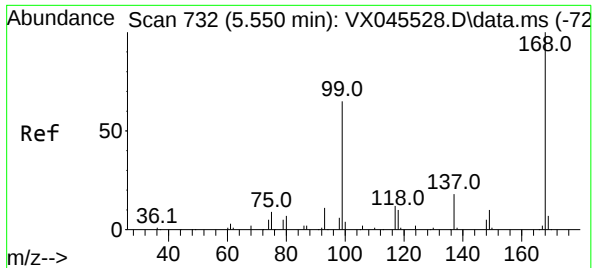
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045994.D
Acq On : 30 Apr 2025 13:42
Operator : JC/MD
Sample : Q1901-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

Quant Time: May 01 03:36:58 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: 5.550 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

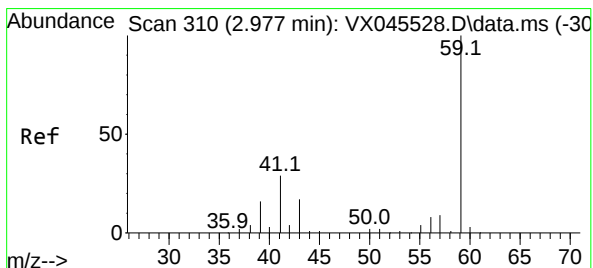
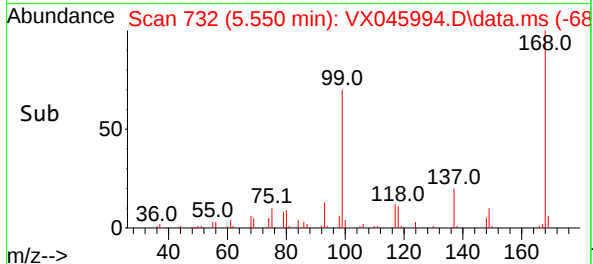
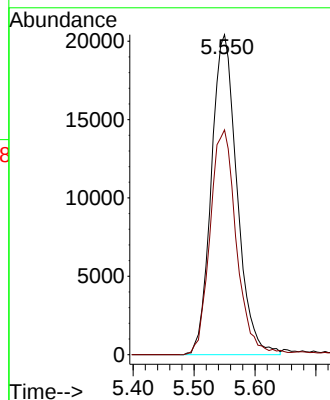
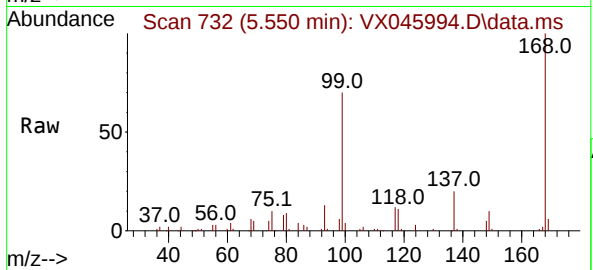
B-167-SB02

Tgt Ion:168 Resp: 59744

Ion Ratio Lower Upper

168 100

99 70.2 52.3 78.5



#11

Tert butyl alcohol

Concen: 31.206 ug/l

RT: 2.977 min Scan# 310

Delta R.T. 0.000 min

Lab File: VX045994.D

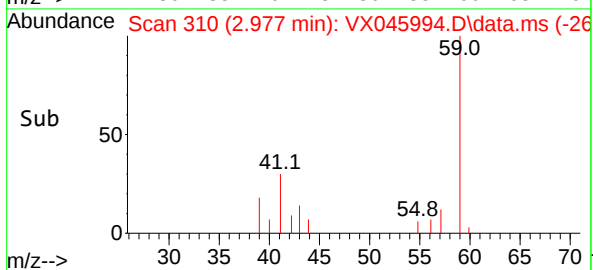
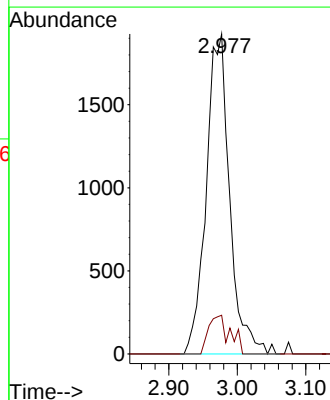
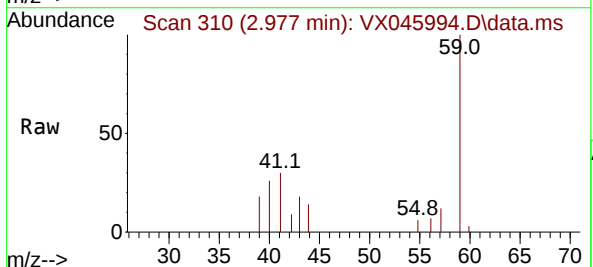
Acq: 30 Apr 2025 13:42

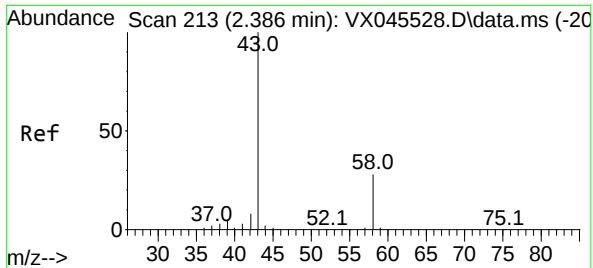
Tgt Ion: 59 Resp: 4582

Ion Ratio Lower Upper

59 100

57 10.9 8.6 12.8

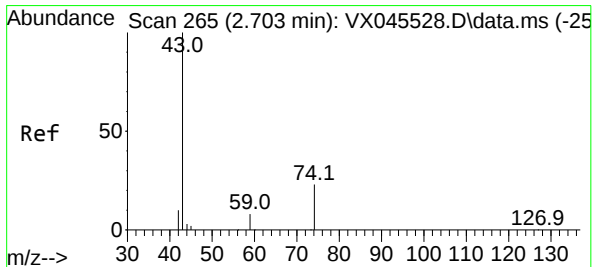
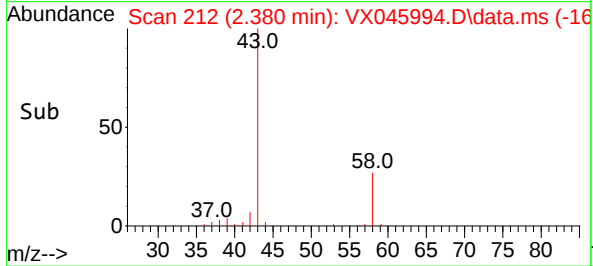
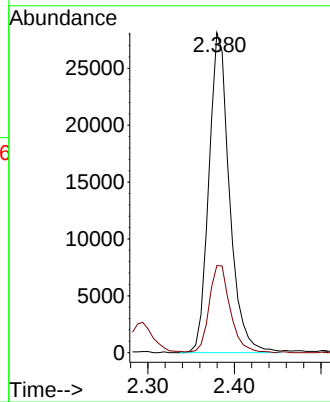
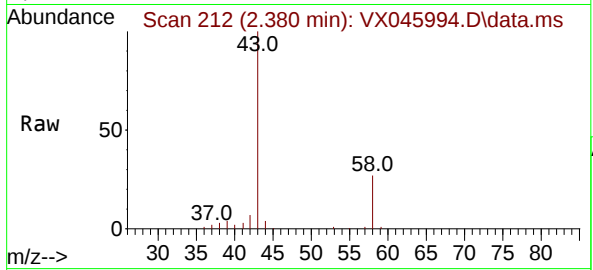




#16
Acetone
Concen: 103.543 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

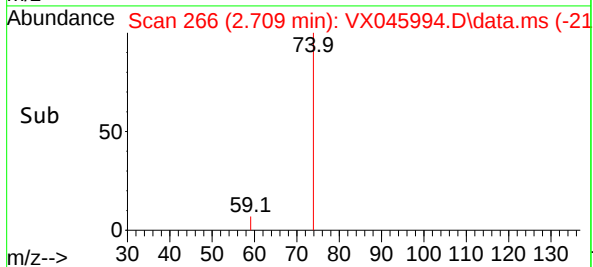
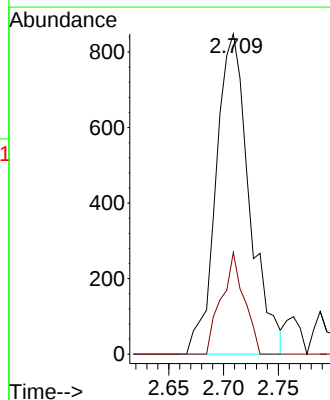
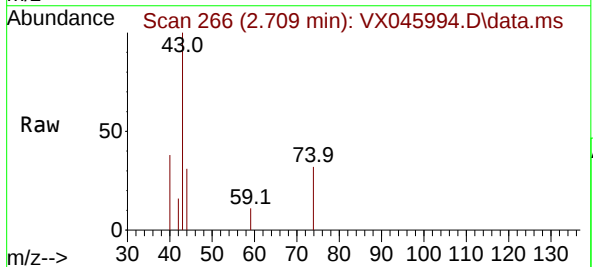
Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

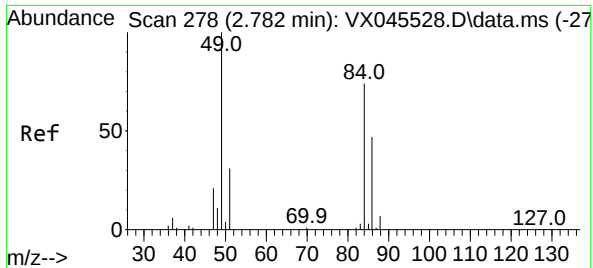
Tgt Ion: 43 Resp: 46453
Ion Ratio Lower Upper
43 100
58 27.0 22.3 33.5



#18
Methyl Acetate
Concen: 1.740 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 43 Resp: 1797
Ion Ratio Lower Upper
43 100
74 21.5 17.5 26.3





#20

Methylene Chloride

Concen: 9.611 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

B-167-SB02

Tgt Ion: 84 Resp: 8072

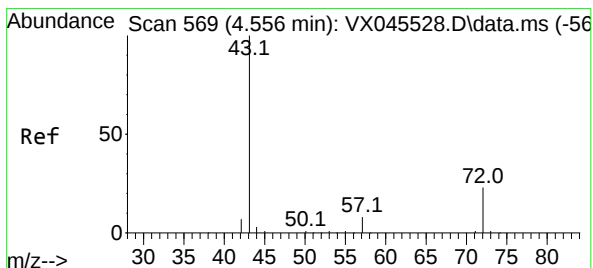
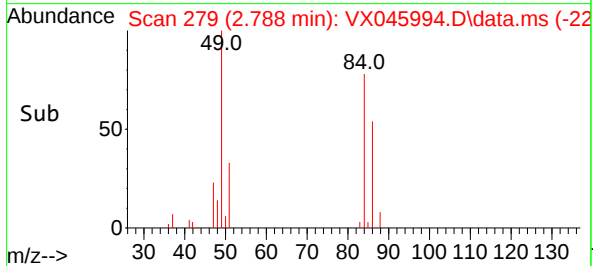
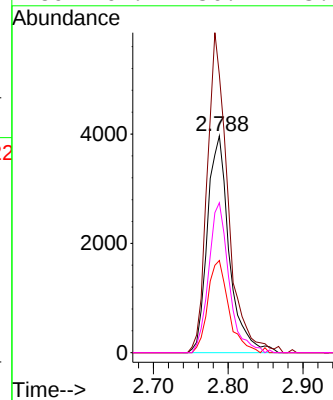
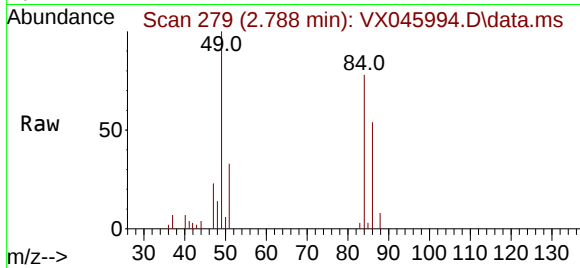
Ion Ratio Lower Upper

84 100

49 128.0 107.5 161.3

51 42.5 33.0 49.6

86 69.2 50.1 75.1



#25

2-Butanone

Concen: 45.982 ug/l

RT: 4.562 min Scan# 570

Delta R.T. 0.006 min

Lab File: VX045994.D

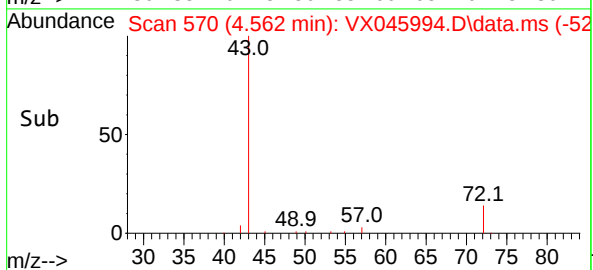
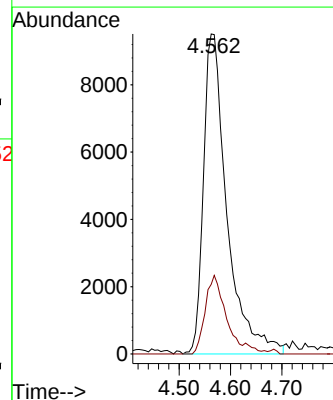
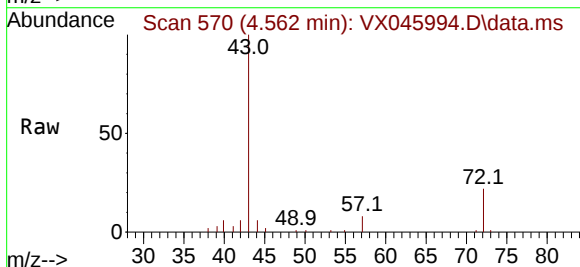
Acq: 30 Apr 2025 13:42

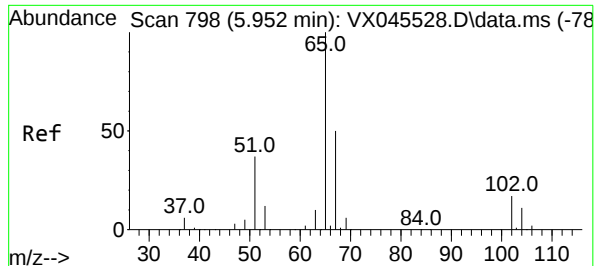
Tgt Ion: 43 Resp: 30197

Ion Ratio Lower Upper

43 100

72 21.7 18.6 28.0





#33

1,2-Dichloroethane-d4

Concen: 56.357 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

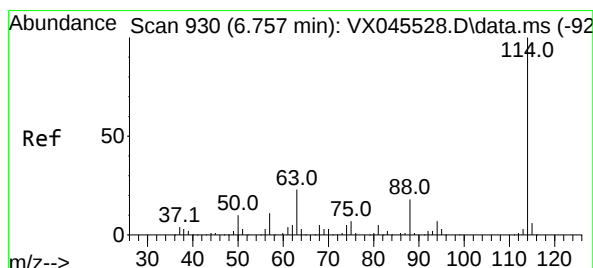
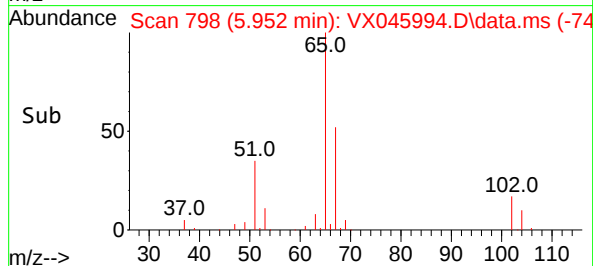
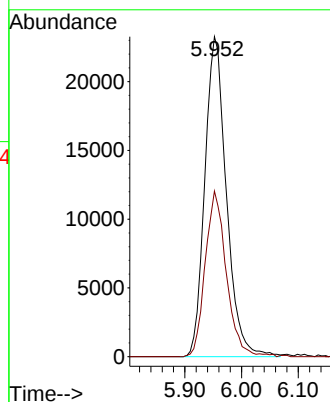
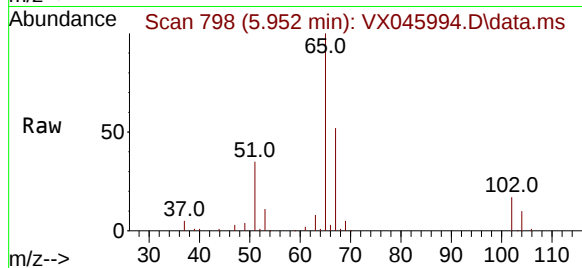
B-167-SB02

Tgt Ion: 65 Resp: 61574

Ion Ratio Lower Upper

65 100

67 50.7 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

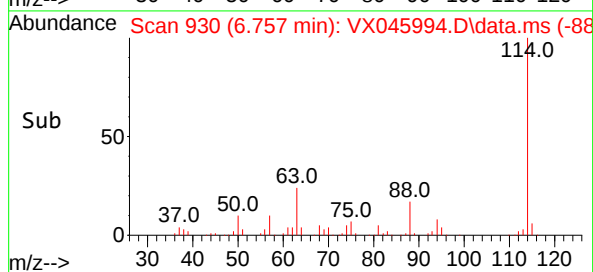
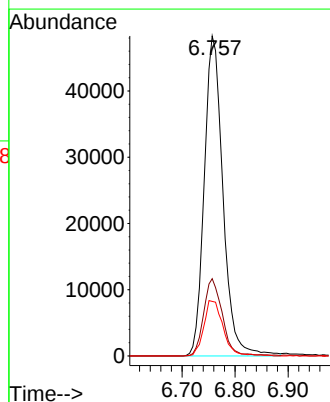
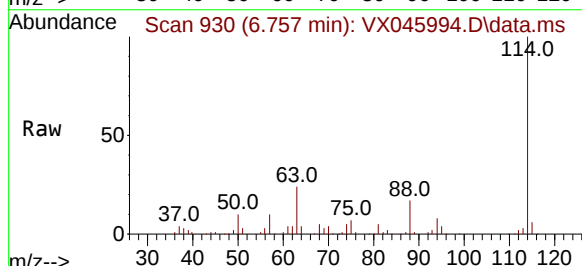
Tgt Ion: 114 Resp: 118644

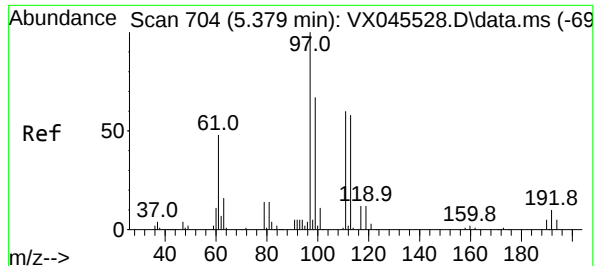
Ion Ratio Lower Upper

114 100

63 24.1 0.0 46.8

88 17.0 0.0 35.4





#35

Dibromofluoromethane

Concen: 53.261 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045994.D

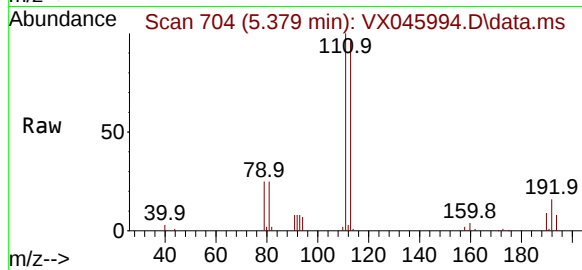
Acq: 30 Apr 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

B-167-SB02



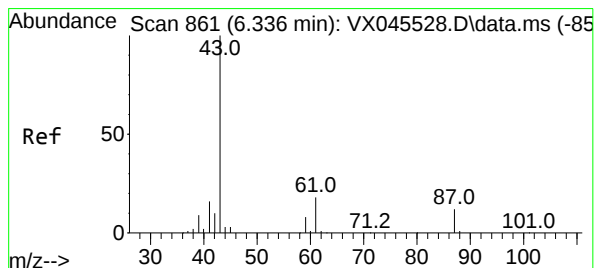
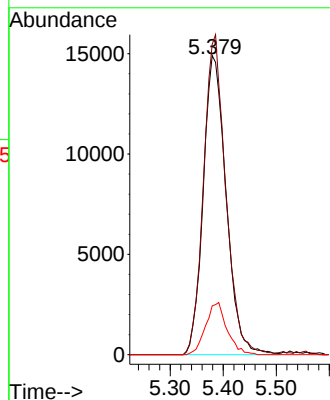
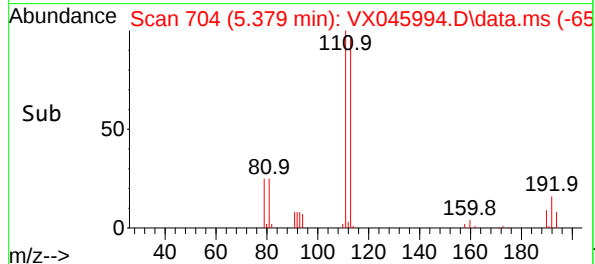
Tgt Ion:113 Resp: 44834

Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.6

192 16.3 13.8 20.6



#43

Isopropyl Acetate

Concen: 4.881 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.006 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

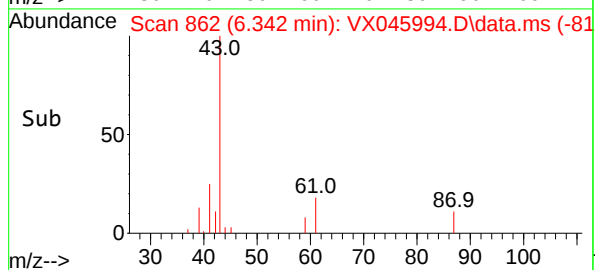
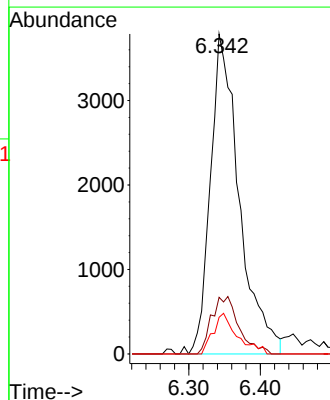
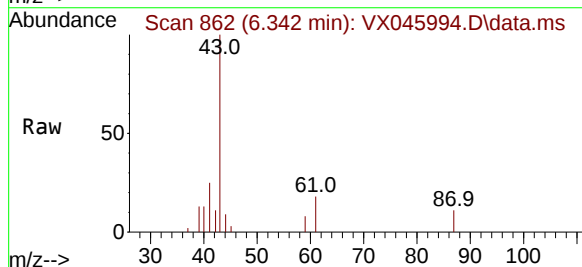
Tgt Ion: 43 Resp: 10597

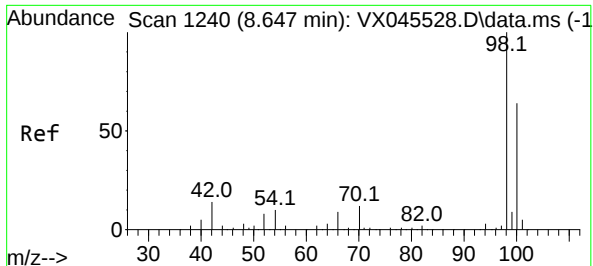
Ion Ratio Lower Upper

43 100

61 17.0 14.1 21.1

87 10.5 9.2 13.8





#50

Toluene-d8

Concen: 52.471 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

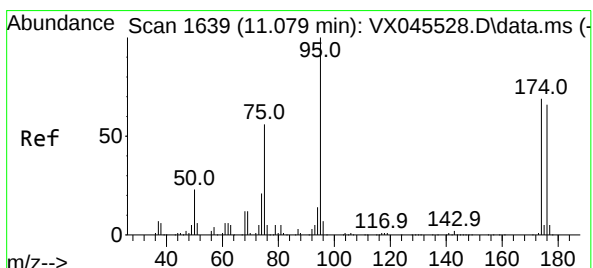
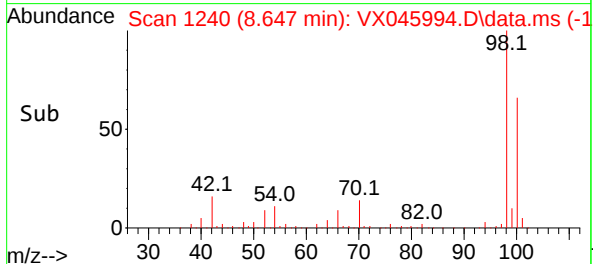
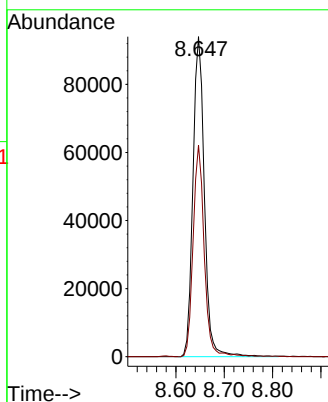
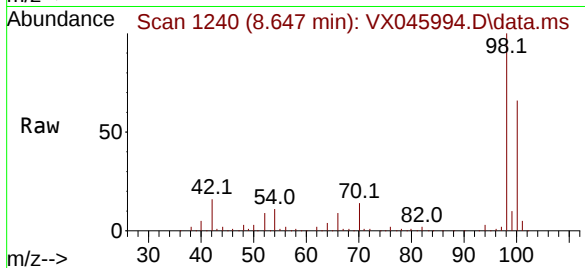
B-167-SB02

Tgt Ion: 98 Resp: 154167

Ion Ratio Lower Upper

98 100

100 64.1 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 55.457 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

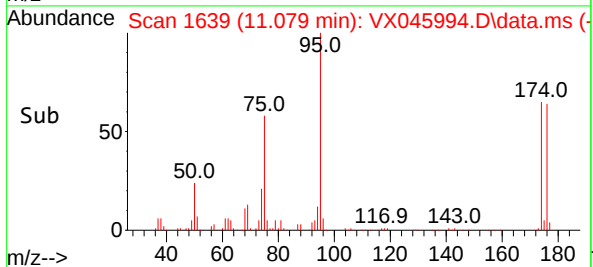
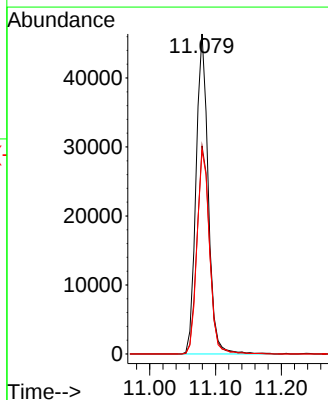
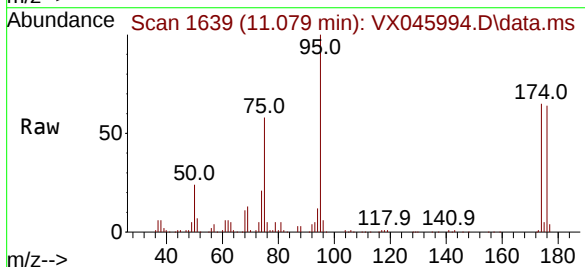
Tgt Ion: 95 Resp: 59351

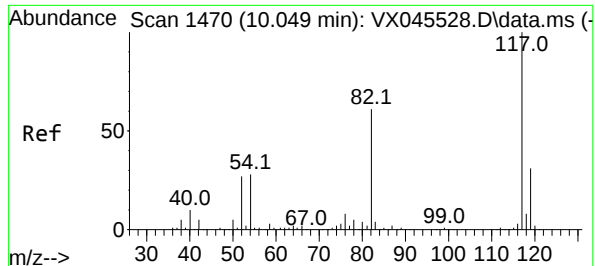
Ion Ratio Lower Upper

95 100

174 66.9 0.0 135.8

176 65.5 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

B-167-SB02

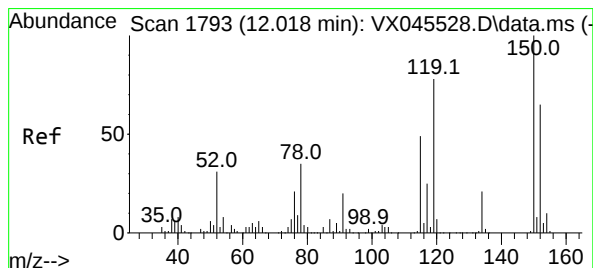
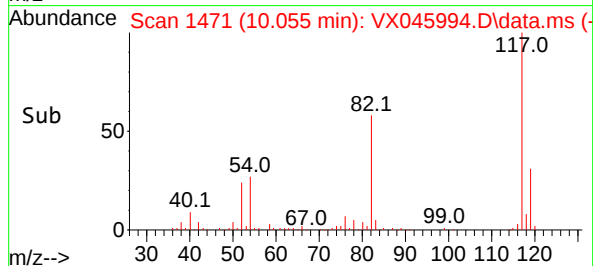
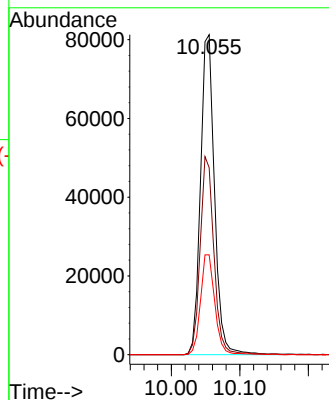
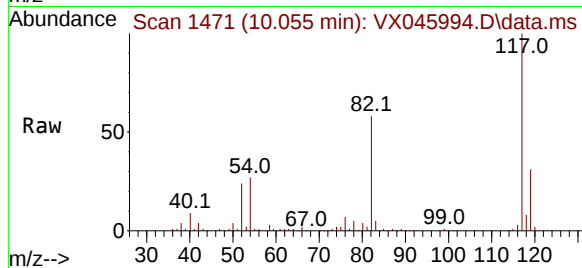
Tgt Ion:117 Resp: 115892

Ion Ratio Lower Upper

117 100

82 58.5 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# 1793

Delta R.T. 0.000 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

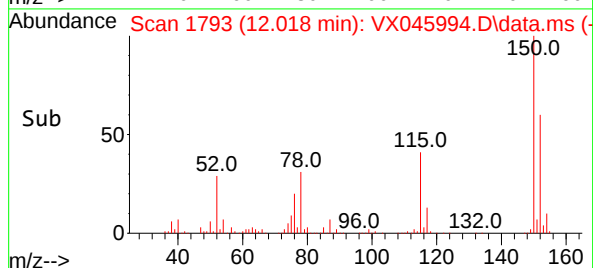
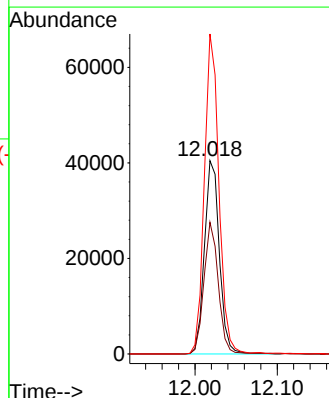
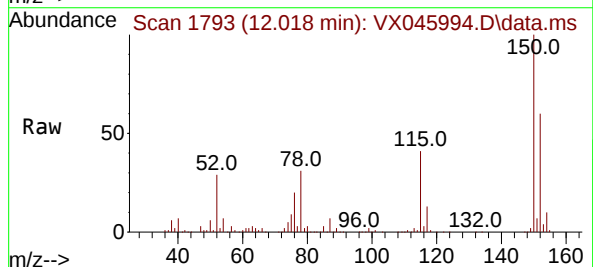
Tgt Ion:152 Resp: 51062

Ion Ratio Lower Upper

152 100

115 65.8 46.9 140.7

150 161.2 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
 Data File : VX046010.D
 Acq On : 30 Apr 2025 19:57
 Operator : JC/MD
 Sample : Q1901-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-170-SB02

A
B
C
D
E
F
G
H
I
J
K

Quant Time: May 01 03:40:03 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)

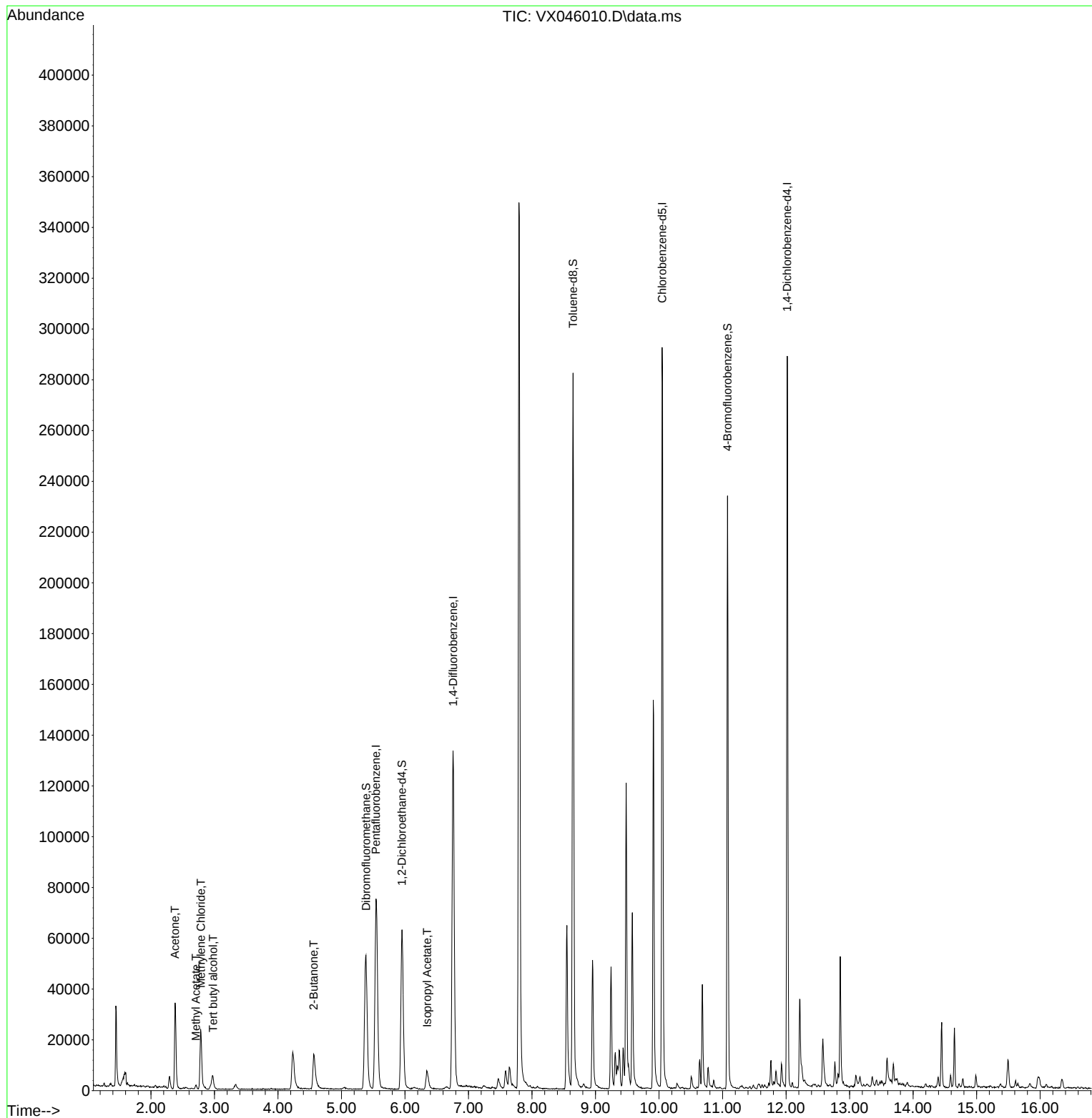
Internal Standards						
1) Pentafluorobenzene	5.544	168	64982	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127775	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	119826	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51937	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64612	54.371	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.740%			
35) Dibromofluoromethane	5.385	113	45913	50.645	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.300%			
50) Toluene-d8	8.647	98	160014	50.569	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.140%			
62) 4-Bromofluorobenzene	11.079	95	62061	53.845	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.700%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.977	59	6244	39.097	ug/l	95
16) Acetone	2.380	43	36845	75.507	ug/l	97
18) Methyl Acetate	2.709	43	1957	1.742	ug/l	94
20) Methylene Chloride	2.788	84	10717	11.731	ug/l	97
25) 2-Butanone	4.562	43	26175	36.645	ug/l	95
43) Isopropyl Acetate	6.348	43	11261	4.817	ug/l #	92

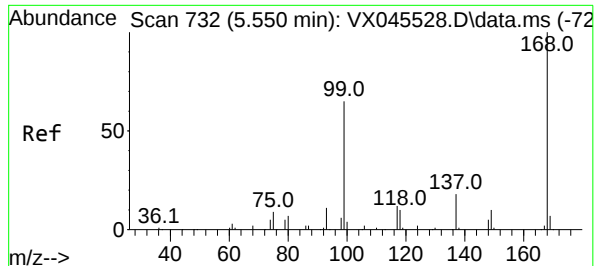
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX046010.D
Acq On : 30 Apr 2025 19:57
Operator : JC/MD
Sample : Q1901-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-170-SB02

Quant Time: May 01 03:40:03 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: VX046010.D

Acq: 30 Apr 2025 19:57

Instrument :

MSVOA_X

ClientSampleId :

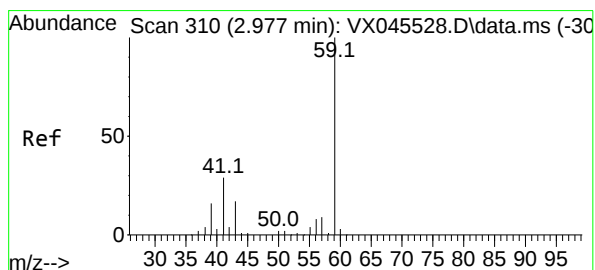
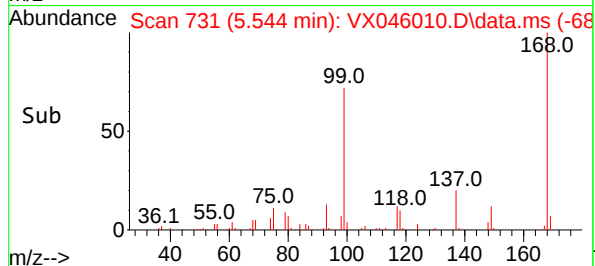
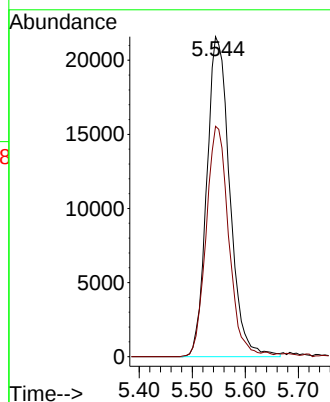
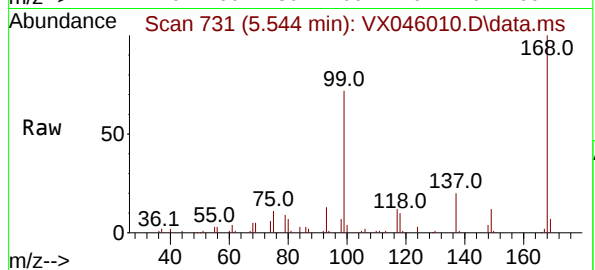
B-170-SB02

Tgt Ion:168 Resp: 64982

Ion Ratio Lower Upper

168 100

99 72.0 52.3 78.5



#11

Tert butyl alcohol

Concen: 39.097 ug/l

RT: 2.977 min Scan# 310

Delta R.T. 0.000 min

Lab File: VX046010.D

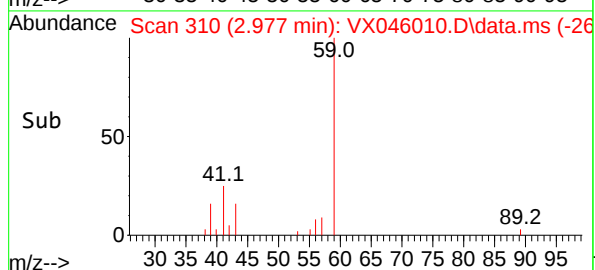
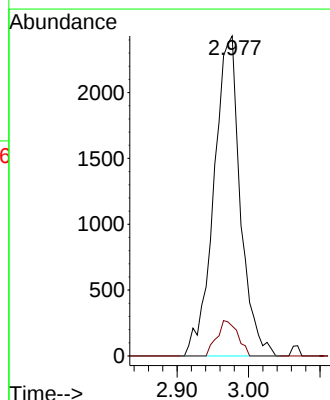
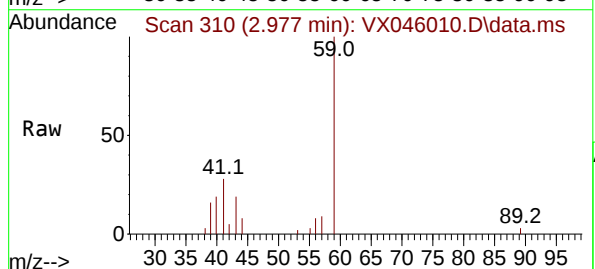
Acq: 30 Apr 2025 19:57

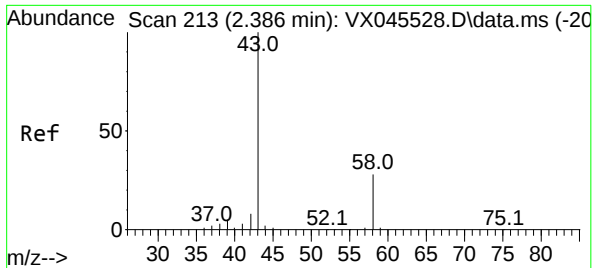
Tgt Ion: 59 Resp: 6244

Ion Ratio Lower Upper

59 100

57 8.7 8.6 12.8

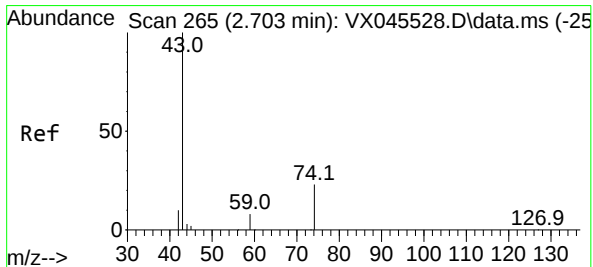
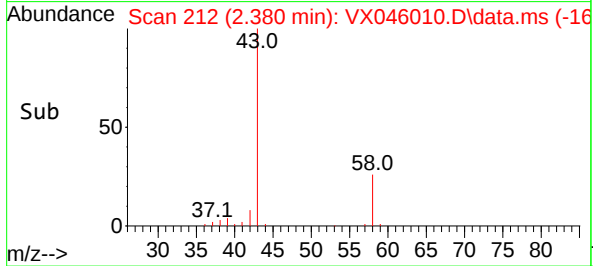
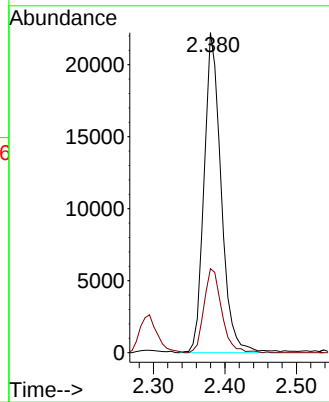
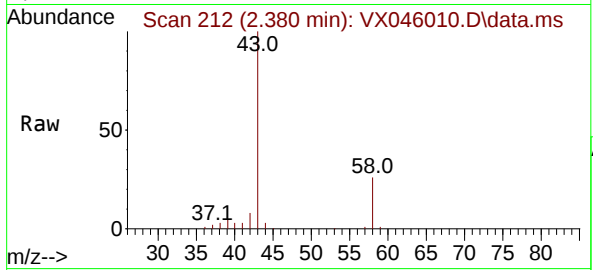




#16
Acetone
Concen: 75.507 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

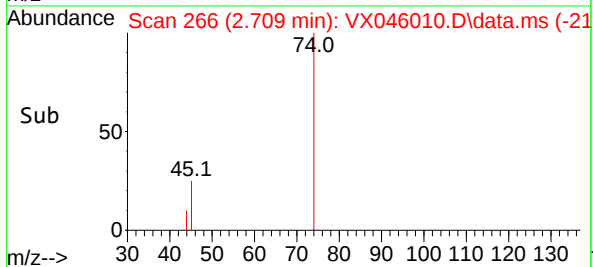
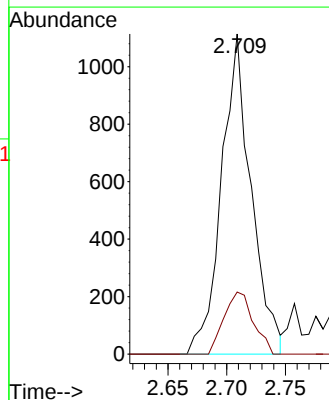
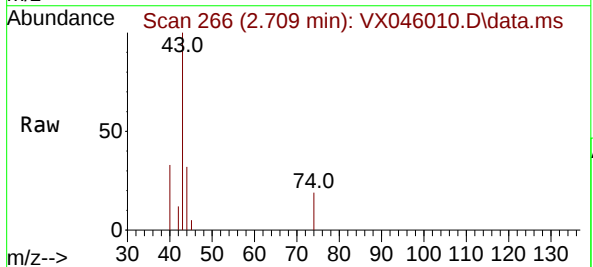
Instrument :
MSVOA_X
ClientSampleId :
B-170-SB02

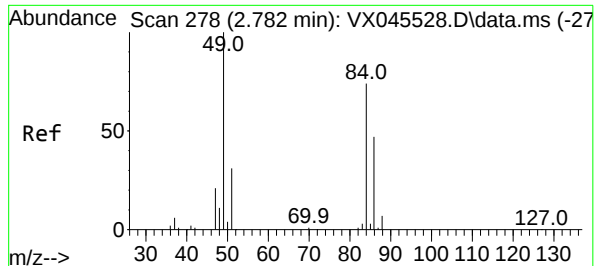
Tgt Ion: 43 Resp: 36845
Ion Ratio Lower Upper
43 100
58 26.3 22.3 33.5



#18
Methyl Acetate
Concen: 1.742 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046010.D
Acq: 30 Apr 2025 19:57

Tgt Ion: 43 Resp: 1957
Ion Ratio Lower Upper
43 100
74 19.1 17.5 26.3





#20

Methylene Chloride

Concen: 11.731 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX046010.D

Acq: 30 Apr 2025 19:57

Instrument :

MSVOA_X

ClientSampleId :

B-170-SB02

Tgt Ion: 84 Resp: 10717

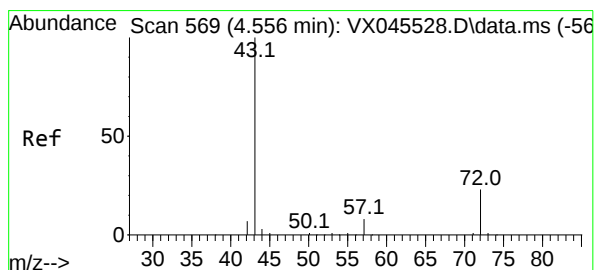
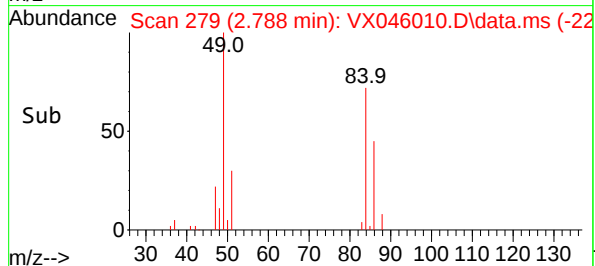
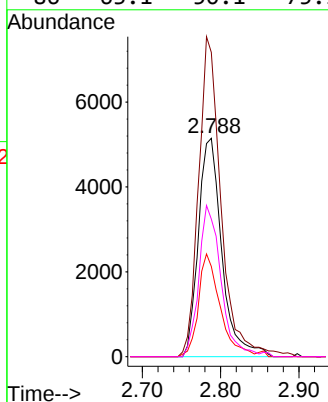
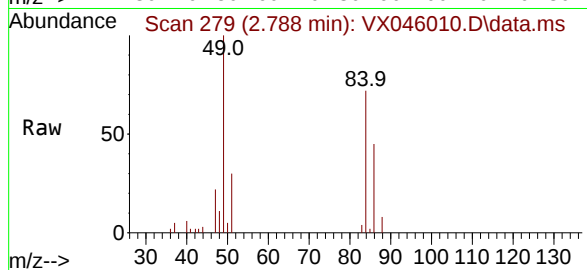
Ion Ratio Lower Upper

84 100

49 139.4 107.5 161.3

51 41.4 33.0 49.6

86 63.1 50.1 75.1



#25

2-Butanone

Concen: 36.645 ug/l

RT: 4.562 min Scan# 570

Delta R.T. 0.006 min

Lab File: VX046010.D

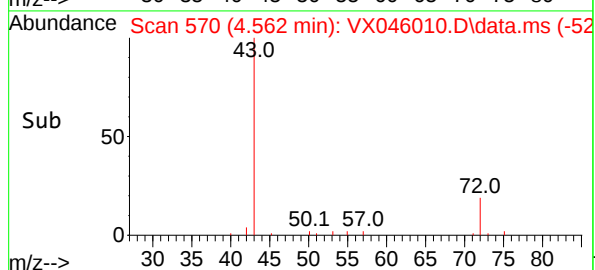
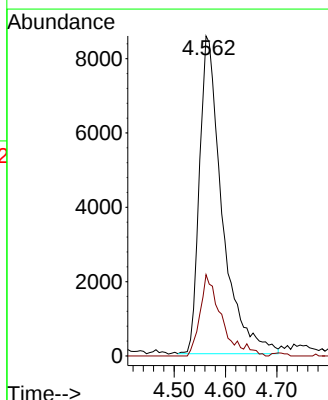
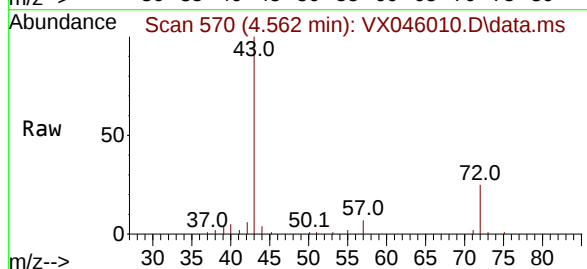
Acq: 30 Apr 2025 19:57

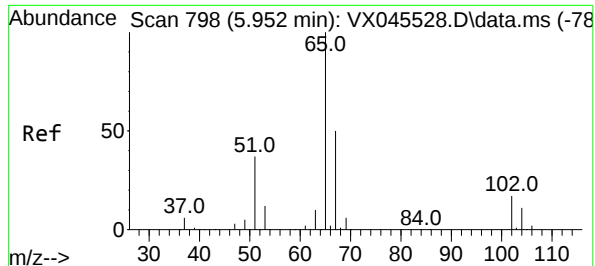
Tgt Ion: 43 Resp: 26175

Ion Ratio Lower Upper

43 100

72 25.6 18.6 28.0





#33

1,2-Dichloroethane-d4

Concen: 54.371 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX046010.D

Acq: 30 Apr 2025 19:57

Instrument :

MSVOA_X

ClientSampleId :

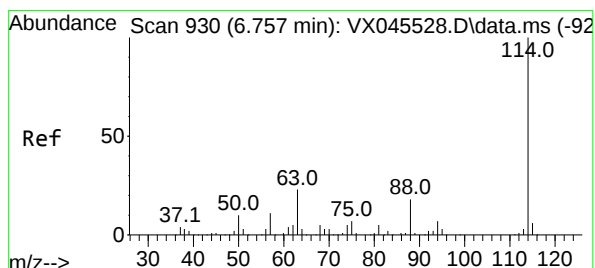
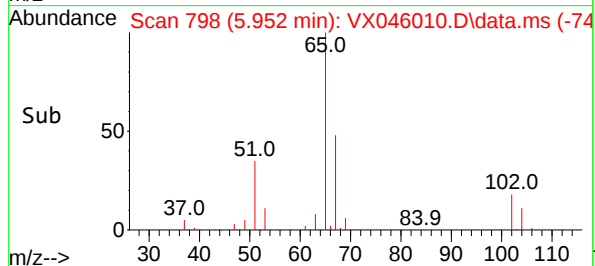
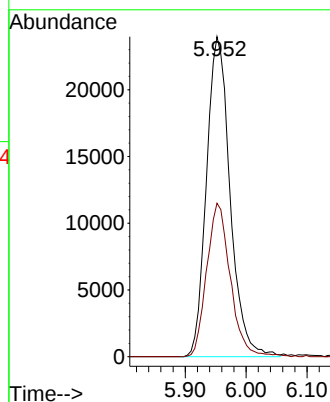
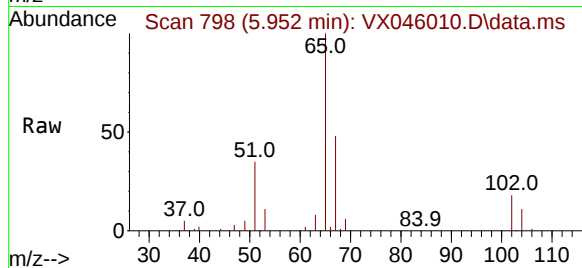
B-170-SB02

Tgt Ion: 65 Resp: 64612

Ion Ratio Lower Upper

65 100

67 47.9 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX046010.D

Acq: 30 Apr 2025 19:57

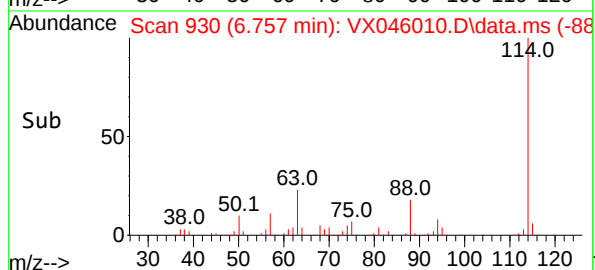
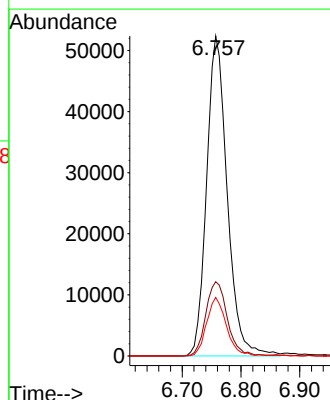
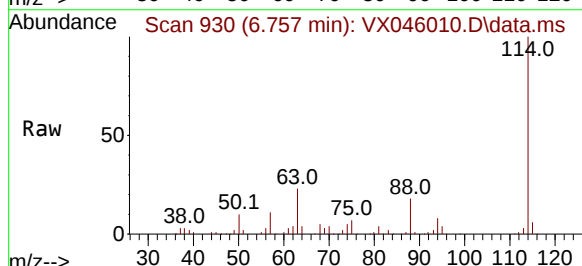
Tgt Ion: 114 Resp: 127775

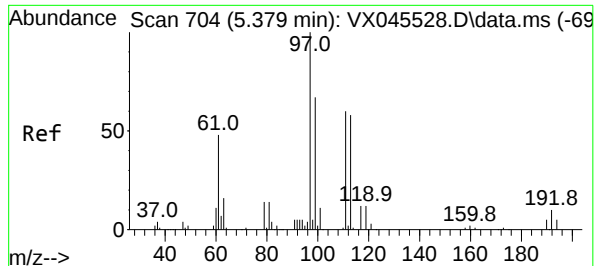
Ion Ratio Lower Upper

114 100

63 23.2 0.0 46.8

88 18.3 0.0 35.4





#35

Dibromofluoromethane

Concen: 50.645 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX046010.D

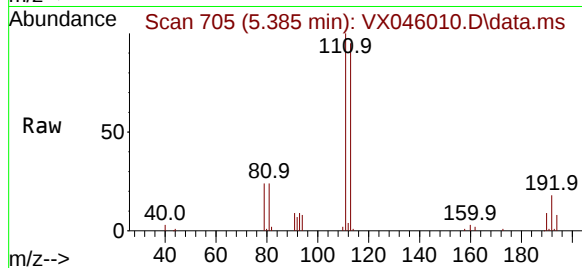
Acq: 30 Apr 2025 19:57

Instrument :

MSVOA_X

ClientSampleId :

B-170-SB02



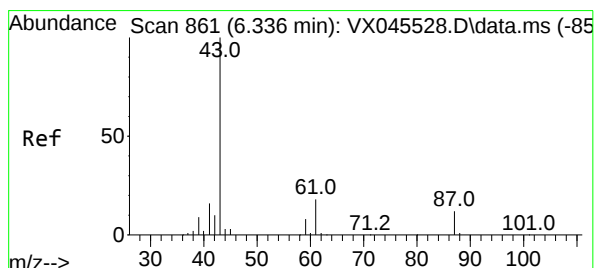
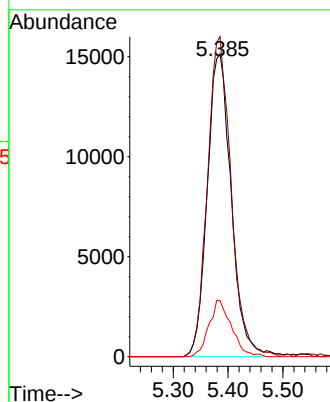
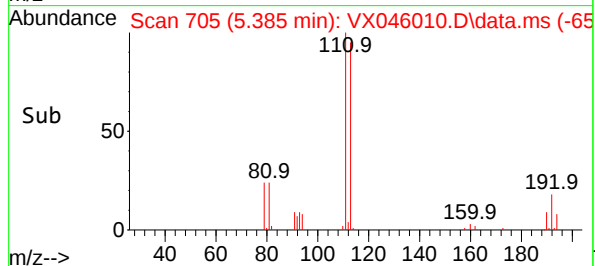
Tgt Ion:113 Resp: 45913

Ion Ratio Lower Upper

113 100

111 104.4 81.8 122.6

192 17.5 13.8 20.6



#43

Isopropyl Acetate

Concen: 4.817 ug/l

RT: 6.348 min Scan# 863

Delta R.T. 0.012 min

Lab File: VX046010.D

Acq: 30 Apr 2025 19:57

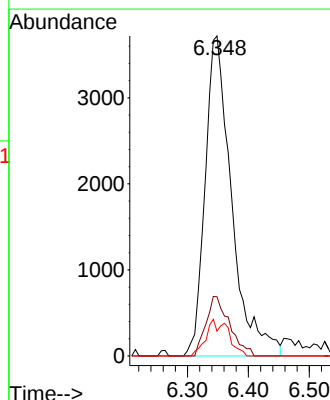
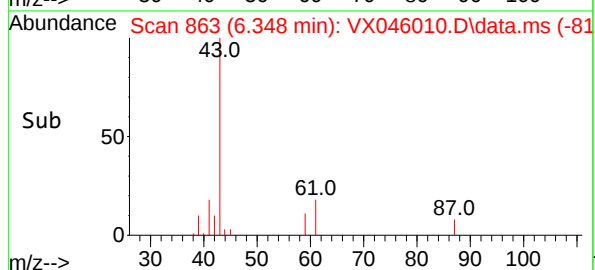
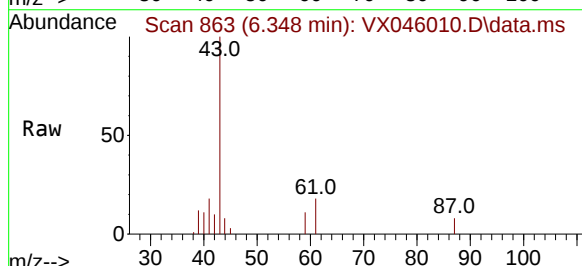
Tgt Ion: 43 Resp: 11261

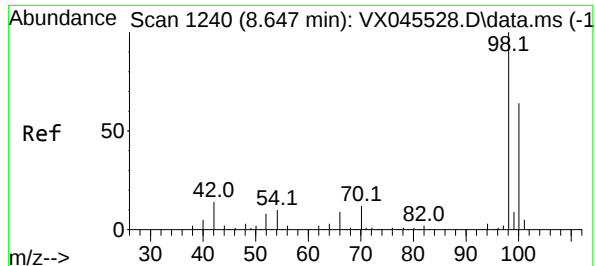
Ion Ratio Lower Upper

43 100

61 16.5 14.1 21.1

87 5.0 9.2 13.8





#50

Toluene-d8

Concen: 50.569 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046010.D

Acq: 30 Apr 2025 19:57

Instrument :

MSVOA_X

ClientSampleId :

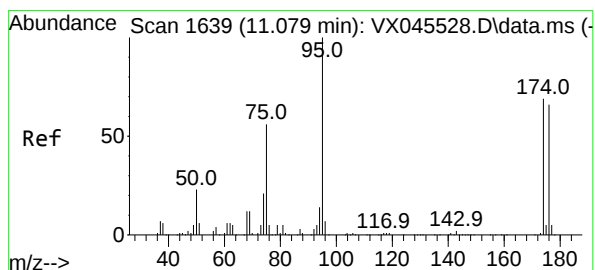
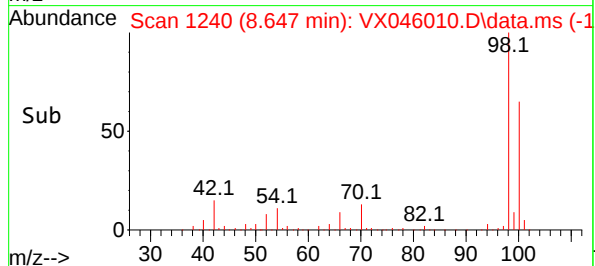
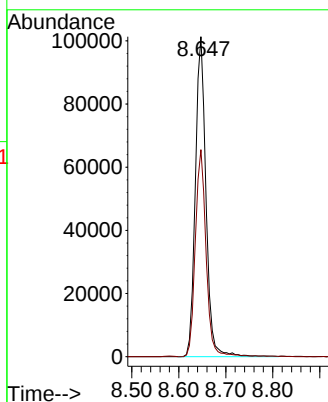
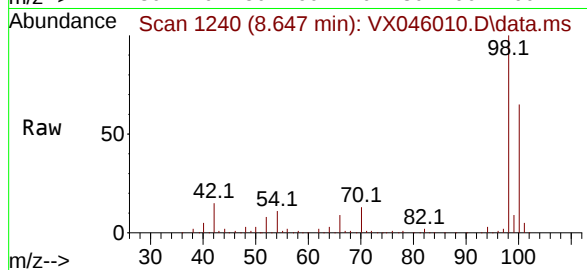
B-170-SB02

Tgt Ion: 98 Resp: 160014

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 53.845 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046010.D

Acq: 30 Apr 2025 19:57

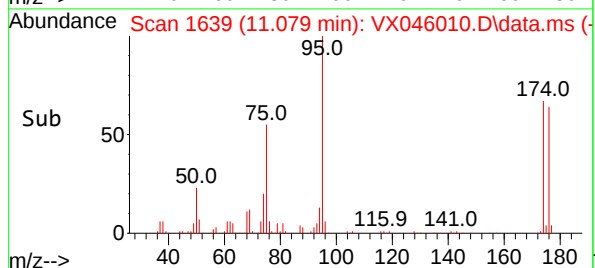
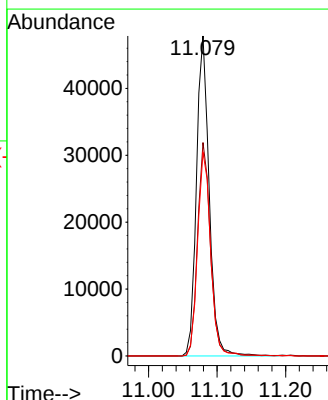
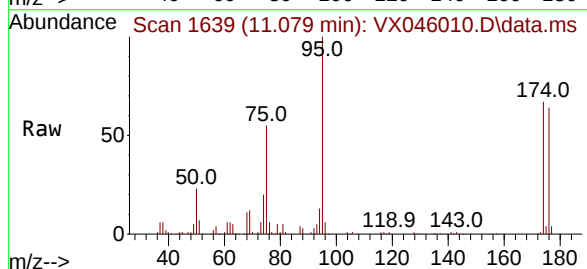
Tgt Ion: 95 Resp: 62061

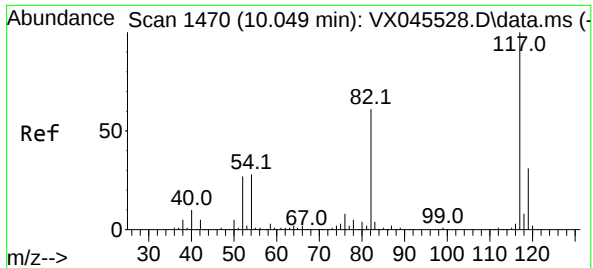
Ion Ratio Lower Upper

95 100

174 67.3 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: VX046010.D

Acq: 30 Apr 2025 19:57

Instrument :

MSVOA_X

ClientSampleId :

B-170-SB02

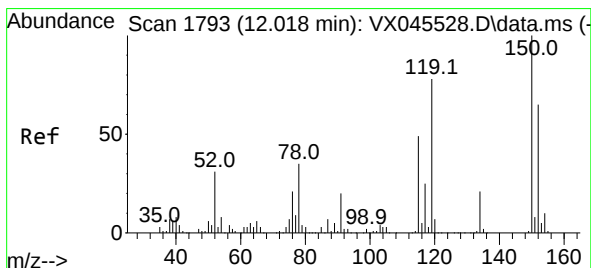
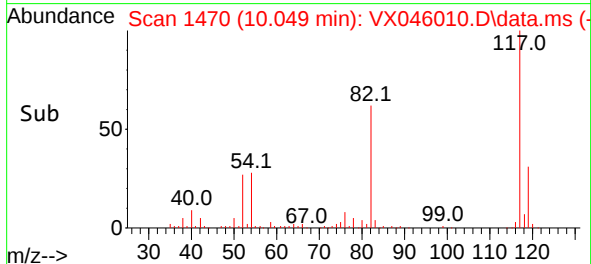
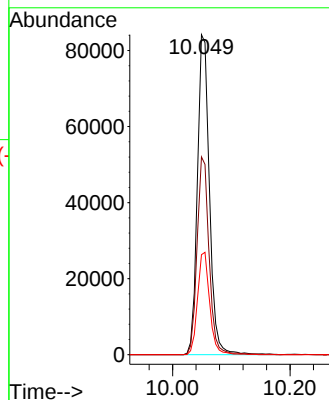
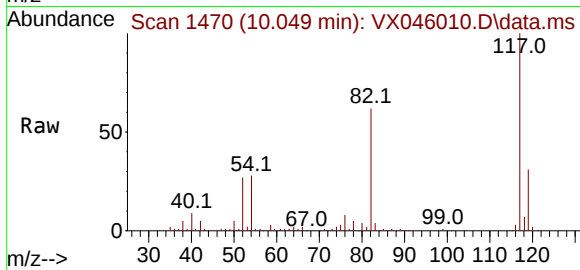
Tgt Ion:117 Resp: 119826

Ion Ratio Lower Upper

117 100

82 61.8 49.2 73.8

119 31.3 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: VX046010.D

Acq: 30 Apr 2025 19:57

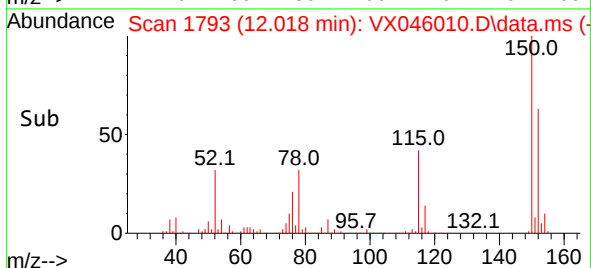
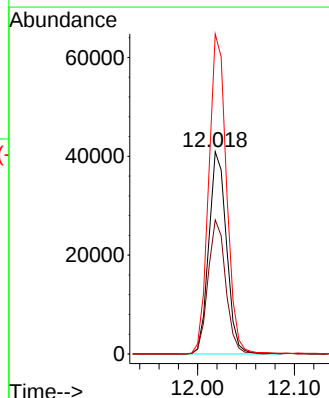
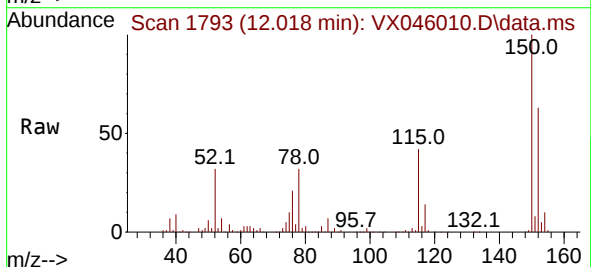
Tgt Ion:152 Resp: 51937

Ion Ratio Lower Upper

152 100

115 66.3 46.9 140.7

150 159.1 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045987.D
Acq On : 30 Apr 2025 10:55
Operator : JC/MD
Sample : VX0430WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBL01

A
B
C
D
E
F
G
H
I
J
K

Quant Time: May 01 03:35:32 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	62274	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	125239	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116463	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49781	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64126	56.309	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.620%
35) Dibromofluoromethane	5.379	113	46693	52.548	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.100%
50) Toluene-d8	8.647	98	156289	50.392	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.780%
62) 4-Bromofluorobenzene	11.079	95	58679	51.942	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.880%

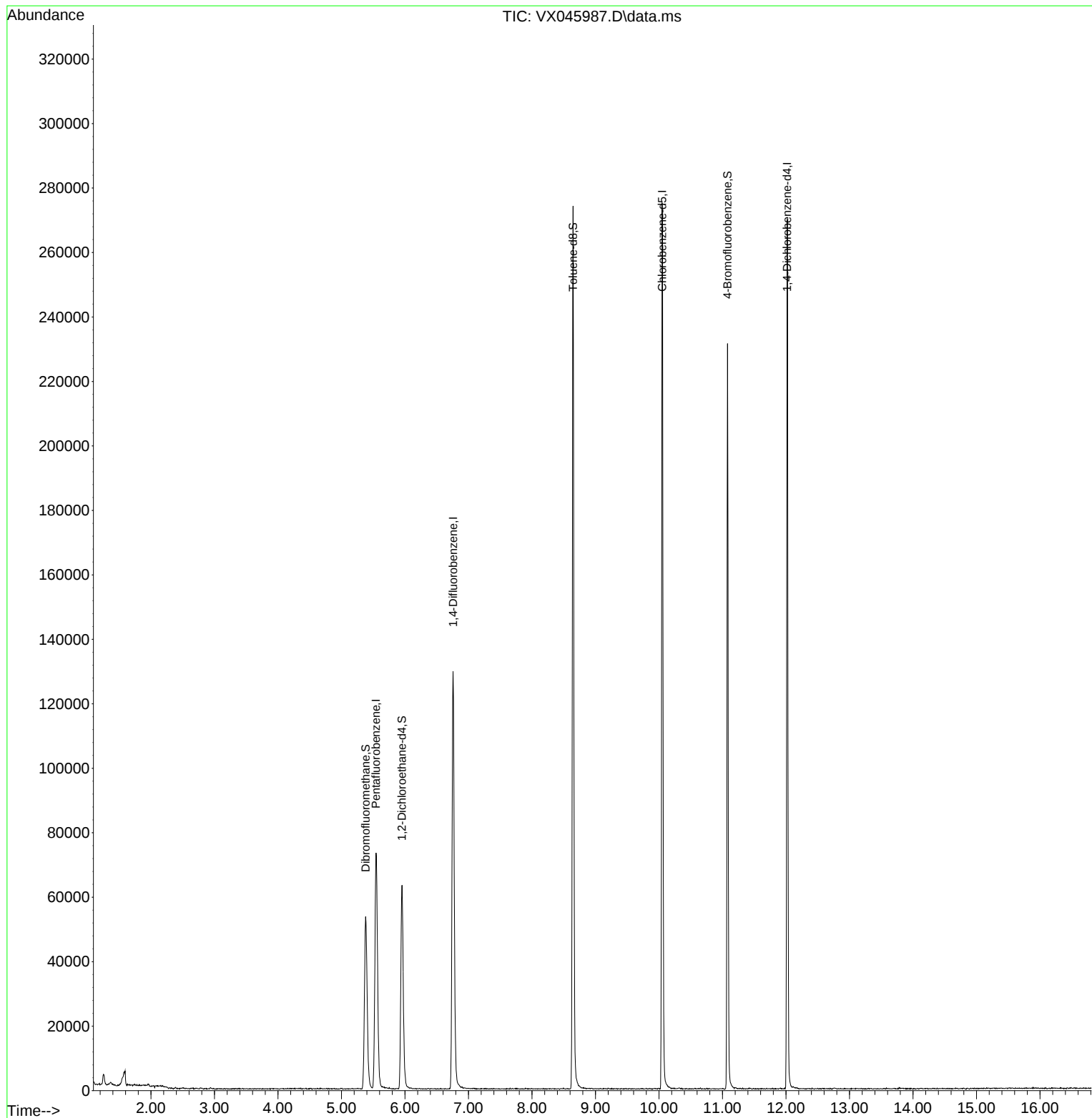
Target Compounds	Qvalue

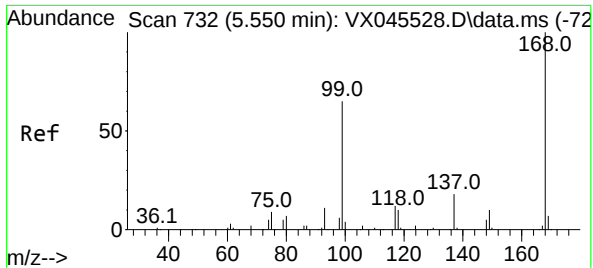
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045987.D
Acq On : 30 Apr 2025 10:55
Operator : JC/MD
Sample : VX0430WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBL01

Quant Time: May 01 03:35:32 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: VX045987.D

Acq: 30 Apr 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

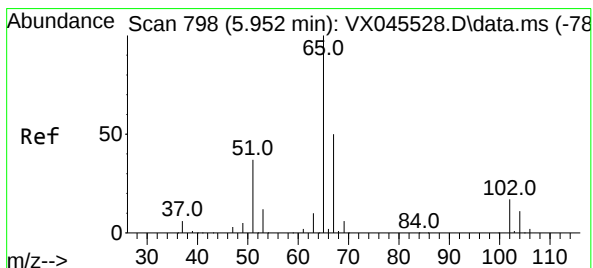
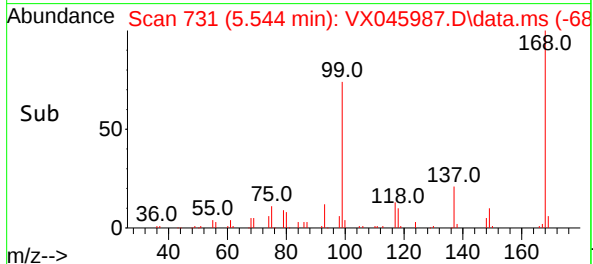
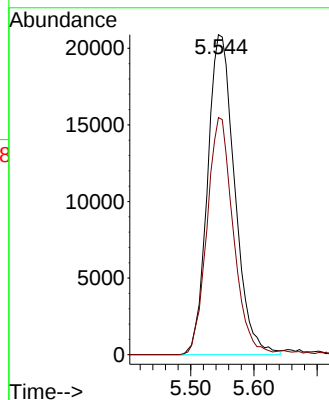
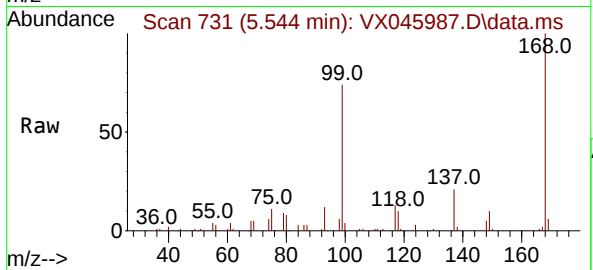
VX0430WBL01

Tgt Ion:168 Resp: 62274

Ion Ratio Lower Upper

168 100

99 74.1 52.3 78.5



#33

1,2-Dichloroethane-d4

Concen: 56.309 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045987.D

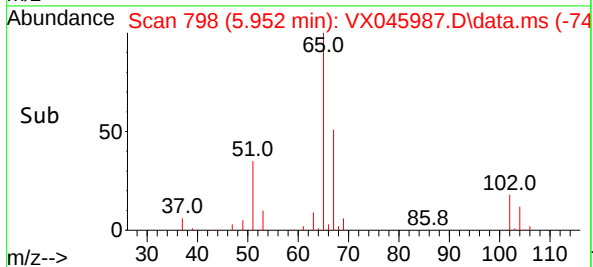
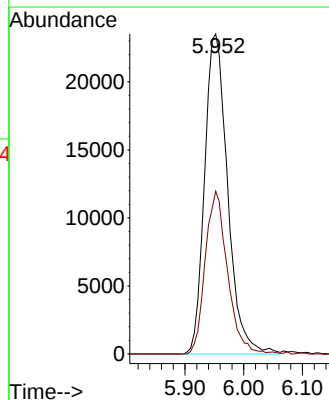
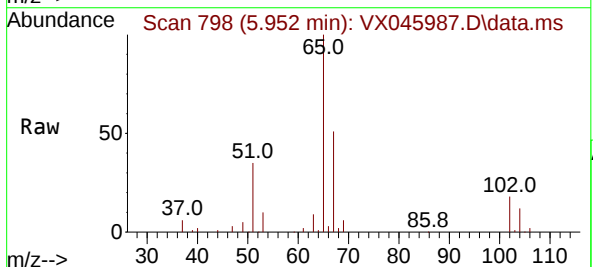
Acq: 30 Apr 2025 10:55

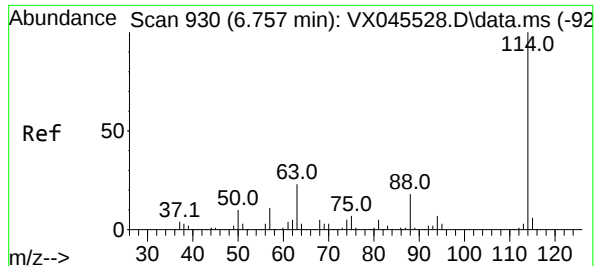
Tgt Ion: 65 Resp: 64126

Ion Ratio Lower Upper

65 100

67 49.1 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: VX045987.D

Acq: 30 Apr 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

VX0430WBL01

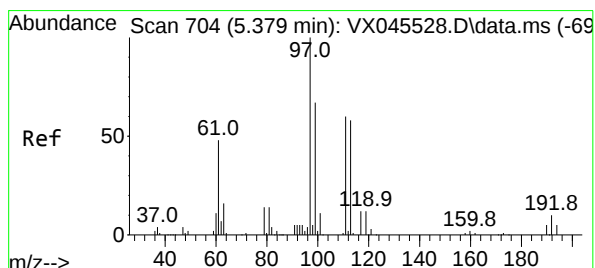
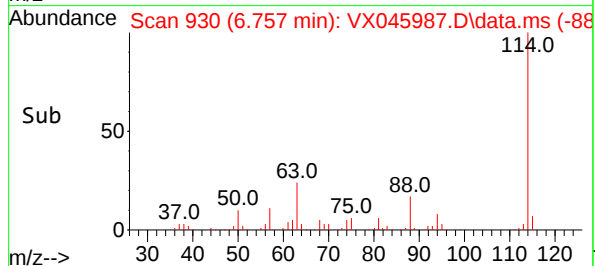
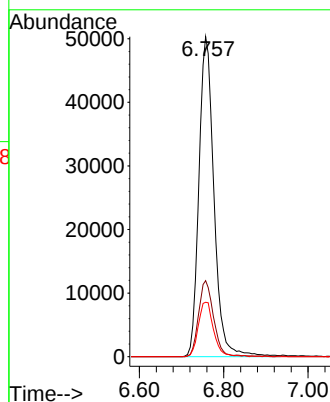
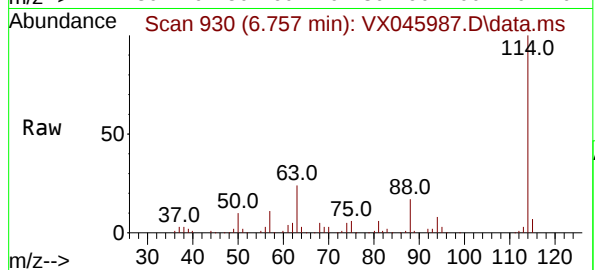
Tgt Ion:114 Resp: 125239

Ion Ratio Lower Upper

114 100

63 23.7 0.0 46.8

88 17.0 0.0 35.4



#35

Dibromofluoromethane

Concen: 52.548 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045987.D

Acq: 30 Apr 2025 10:55

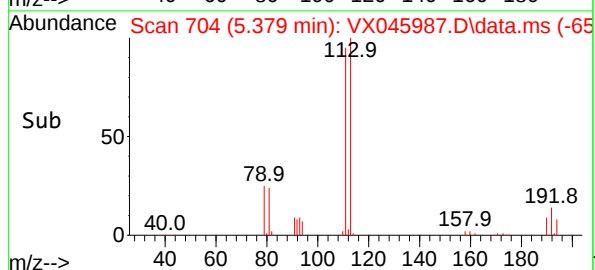
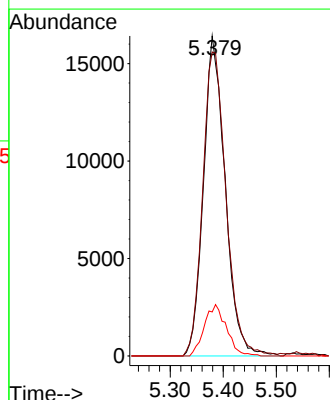
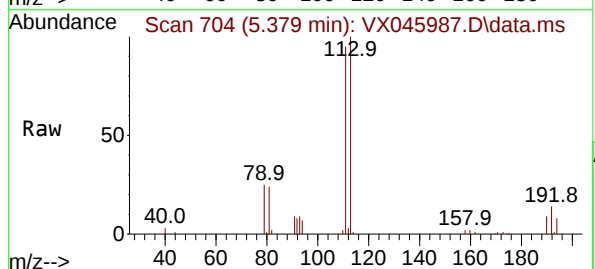
Tgt Ion:113 Resp: 46693

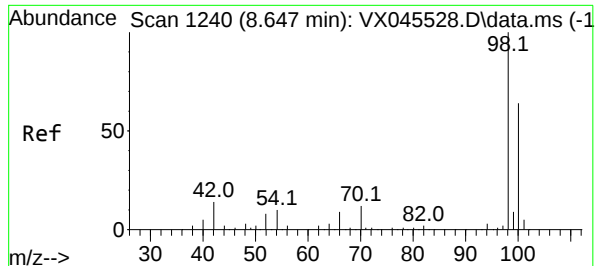
Ion Ratio Lower Upper

113 100

111 102.3 81.8 122.6

192 16.4 13.8 20.6





#50

Toluene-d8

Concen: 50.392 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045987.D

Acq: 30 Apr 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

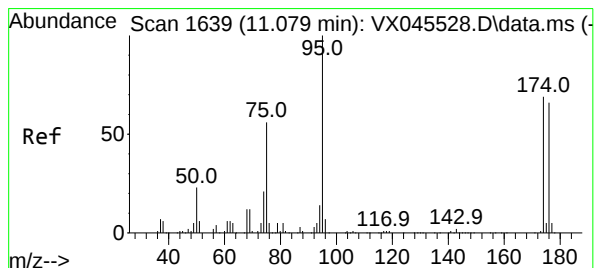
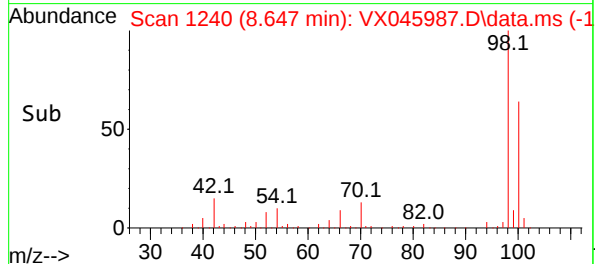
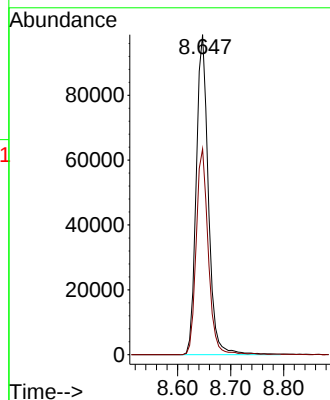
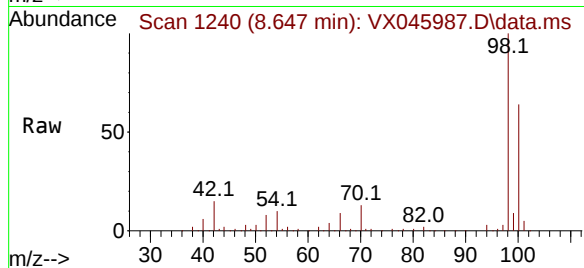
VX0430WBL01

Tgt Ion: 98 Resp: 156289

Ion Ratio Lower Upper

98 100

100 63.8 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 51.942 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045987.D

Acq: 30 Apr 2025 10:55

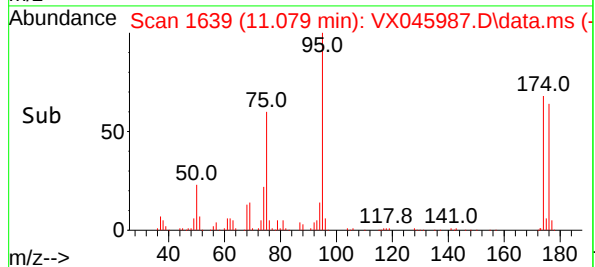
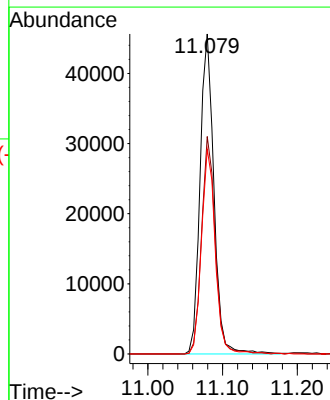
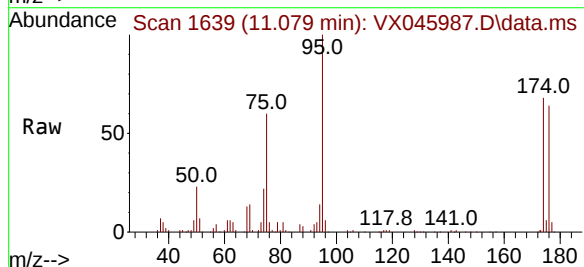
Tgt Ion: 95 Resp: 58679

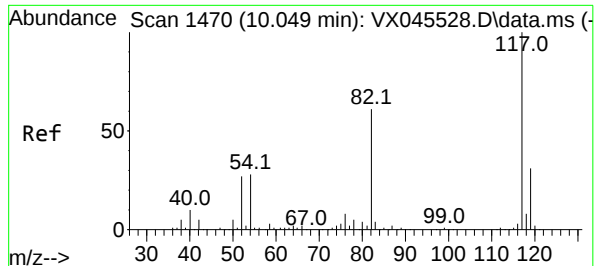
Ion Ratio Lower Upper

95 100

174 67.6 0.0 135.8

176 63.7 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: VX045987.D

Acq: 30 Apr 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

VX0430WBL01

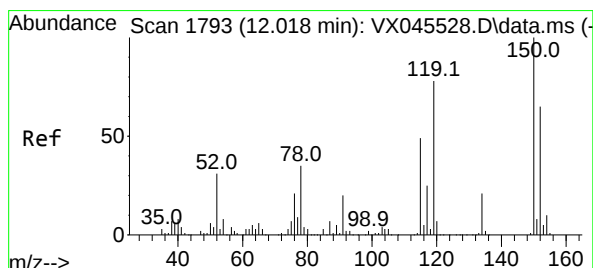
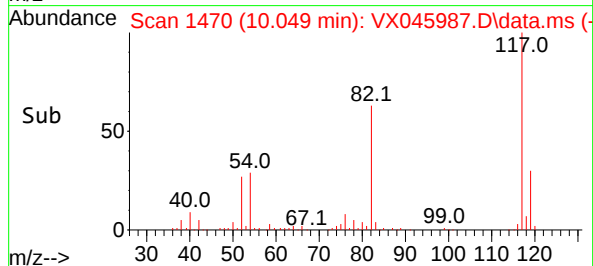
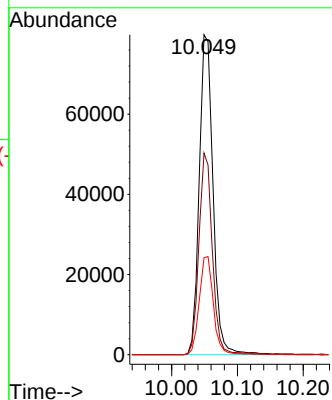
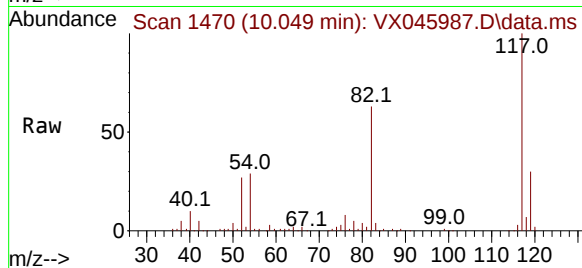
Tgt Ion:117 Resp: 116463

Ion Ratio Lower Upper

117 100

82 63.0 49.2 73.8

119 30.3 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: VX045987.D

Acq: 30 Apr 2025 10:55

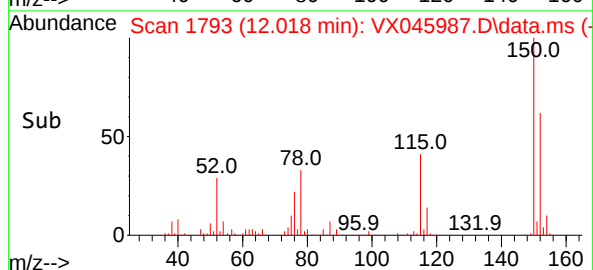
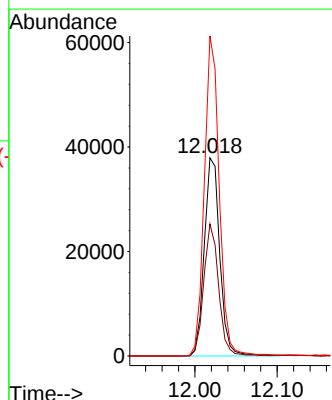
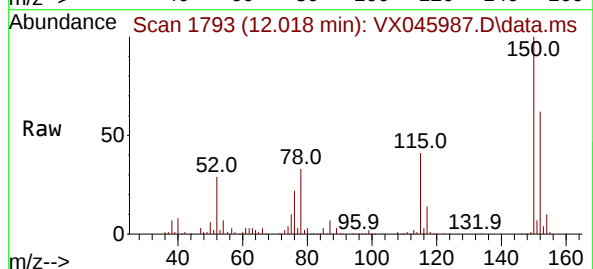
Tgt Ion:152 Resp: 49781

Ion Ratio Lower Upper

152 100

115 63.9 46.9 140.7

150 155.8 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
 Data File : VX045988.D
 Acq On : 30 Apr 2025 11:19
 Operator : JC/MD
 Sample : VX0430WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0430WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 05/02/2025
 Supervised By : Semsettin Yesilyurt 05/05/2025

Quant Time: May 01 03:35:41 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	79591	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	138531	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123154	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	58135	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	79431	54.573	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.140%	
35) Dibromofluoromethane	5.379	113	55572	56.540	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 113.080%	
50) Toluene-d8	8.647	98	178715	52.094	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.180%	
62) 4-Bromofluorobenzene	11.079	95	69575	55.677	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 111.360%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	20655	17.353	ug/l	98
3) Chloromethane	1.307	50	20162	16.488	ug/l	98
4) Vinyl Chloride	1.374	62	19329	17.272	ug/l	97
5) Bromomethane	1.593	94	9557	18.011	ug/l	99
6) Chloroethane	1.672	64	11560	19.470	ug/l	98
7) Trichlorofluoromethane	1.874	101	33075	19.820	ug/l	98
8) Diethyl Ether	2.136	74	11018	19.666	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	19906	20.357	ug/l	98
10) Methyl Iodide	2.447	142	22014	18.049	ug/l	95
11) Tert butyl alcohol	2.977	59	23070	117.939	ug/l	100
12) 1,1-Dichloroethene	2.313	96	17690	18.514	ug/l	97
13) Acrolein	2.233	56	24514	91.006	ug/l	100
14) Allyl chloride	2.654	41	36647	20.214	ug/l	98
15) Acrylonitrile	3.062	53	67478	109.282	ug/l	99
16) Acetone	2.386	43	65143	108.994	ug/l	100
17) Carbon Disulfide	2.502	76	31903	13.519	ug/l	98
18) Methyl Acetate	2.703	43	41651	30.268	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	71425	21.369	ug/l	98
20) Methylene Chloride	2.782	84	22667	20.258	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	18566	19.019	ug/l	95
22) Diisopropyl ether	3.757	45	74999	21.001	ug/l #	85
23) Vinyl Acetate	3.721	43	305569	99.034	ug/l	98
24) 1,1-Dichloroethane	3.605	63	41234	20.416	ug/l	98
25) 2-Butanone	4.556	43	98463	112.545	ug/l	99
26) 2,2-Dichloropropane	4.471	77	30457	23.341	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	24129	20.289	ug/l	98
28) Bromochloromethane	4.897	49	21912	22.451	ug/l	98
29) Tetrahydrofuran	5.007	42	59403	104.729	ug/l	98
30) Chloroform	5.086	83	44895	21.603	ug/l	98
31) Cyclohexane	5.464	56	31971	17.906	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	37155	21.129	ug/l	99
36) 1,1-Dichloropropene	5.684	75	26313	19.828	ug/l	99
37) Ethyl Acetate	4.721	43	35233	21.067	ug/l	99
38) Carbon Tetrachloride	5.672	117	31212	21.762	ug/l	98
39) Methylcyclohexane	7.379	83	31558	19.400	ug/l	96
40) Benzene	6.031	78	81782	20.178	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
 Data File : VX045988.D
 Acq On : 30 Apr 2025 11:19
 Operator : JC/MD
 Sample : VX0430WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0430WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 05/02/2025
 Supervised By : Semsettin Yesilyurt 05/05/2025

Quant Time: May 01 03:35:41 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	21012	23.812	ug/l	97
42) 1,2-Dichloroethane	6.086	62	38214	22.828	ug/l	100
43) Isopropyl Acetate	6.342	43	55624	21.945	ug/l	99
44) Trichloroethene	7.123	130	19172	19.902	ug/l	100
45) 1,2-Dichloropropane	7.428	63	22110	21.864	ug/l	95
46) Dibromomethane	7.580	93	16648	21.445	ug/l	97
47) Bromodichloromethane	7.818	83	34537	22.278	ug/l	98
48) Methyl methacrylate	7.696	41	28745	21.964	ug/l	98
49) 1,4-Dioxane	7.659	88	11623	490.868	ug/l	97
51) 4-Methyl-2-Pentanone	8.574	43	198681	118.239	ug/l	99
52) Toluene	8.714	92	49625	20.234	ug/l	97
53) t-1,3-Dichloropropene	8.976	75	27493	19.886	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	31316	21.496	ug/l	95
55) 1,1,2-Trichloroethane	9.153	97	21829	22.336	ug/l	96
56) Ethyl methacrylate	9.116	69	33224	21.967	ug/l	99
57) 1,3-Dichloropropane	9.305	76	37096	21.798	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	82278	107.537	ug/l	100
59) 2-Hexanone	9.427	43	145801	117.173	ug/l	97
60) Dibromochloromethane	9.519	129	23829	22.366	ug/l	97
61) 1,2-Dibromoethane	9.610	107	21647	21.881	ug/l	99
64) Tetrachloroethene	9.269	164	16523	19.003	ug/l	97
65) Chlorobenzene	10.079	112	56077	21.309	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.159	131	19738	21.604	ug/l	99
67) Ethyl Benzene	10.189	91	97246	20.633	ug/l	99
68) m/p-Xylenes	10.299	106	72902	42.527	ug/l	98
69) o-Xylene	10.640	106	35400	20.963	ug/l	97
70) Styrene	10.653	104	59894	21.489	ug/l	99
71) Bromoform	10.799	173	14723	21.582	ug/l #	97
73) Isopropylbenzene	10.957	105	96591	20.743	ug/l	99
74) N-amyl acetate	10.842	43	46784	21.003	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	36005	22.010	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	30299m	21.367	ug/l	
77) Bromobenzene	11.195	156	22344	20.767	ug/l	97
78) n-propylbenzene	11.305	91	109148	20.349	ug/l	100
79) 2-Chlorotoluene	11.360	91	70063	20.433	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	81280	21.108	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8077	19.331	ug/l	93
82) 4-Chlorotoluene	11.451	91	78533	20.541	ug/l	99
83) tert-Butylbenzene	11.713	119	80806	21.196	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	80186	20.747	ug/l	100
85) sec-Butylbenzene	11.890	105	99095	21.163	ug/l	100
86) p-Isopropyltoluene	12.006	119	80817	20.935	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	39864	20.354	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	39715	20.002	ug/l	97
89) n-Butylbenzene	12.329	91	67323	20.111	ug/l	99
90) Hexachloroethane	12.536	117	15013	22.629	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	41948	21.543	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8244	24.098	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	21969	20.269	ug/l	99
94) Hexachlorobutadiene	13.725	225	9928	21.256	ug/l	98
95) Naphthalene	13.774	128	82567	20.470	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	23750	20.926	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045988.D
Acq On : 30 Apr 2025 11:19
Operator : JC/MD
Sample : VX0430WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 03:35:41 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 :
VX0430WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025

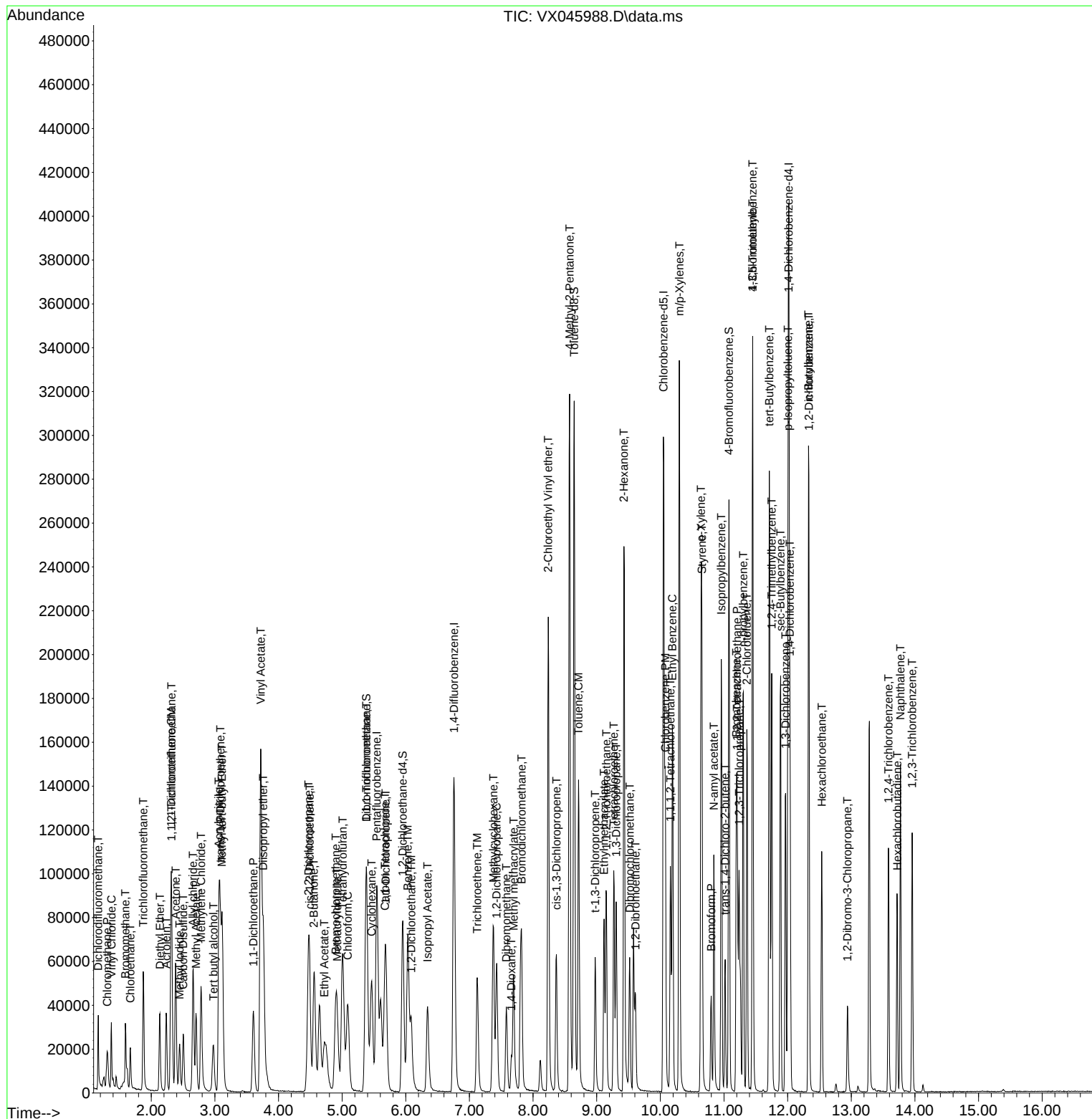
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
 Data File : VX045989.D
 Acq On : 30 Apr 2025 11:46
 Operator : JC/MD
 Sample : VX0430WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0430WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 05/02/2025
 Supervised By : Semsettin Yesilyurt 05/05/2025

Quant Time: May 01 03:36:01 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	77091	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	132529	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	119517	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57970	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	76548	54.297	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.600%			
35) Dibromofluoromethane	5.373	113	53152	56.527	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.060%			
50) Toluene-d8	8.647	98	170578	51.974	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.940%			
62) 4-Bromofluorobenzene	11.079	95	67546	56.502	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 113.000%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	19802	17.176	ug/l	100
3) Chloromethane	1.313	50	19172	16.187	ug/l	99
4) Vinyl Chloride	1.374	62	18020	16.625	ug/l	98
5) Bromomethane	1.593	94	8899	17.315	ug/l	90
6) Chloroethane	1.672	64	11286	19.625	ug/l	97
7) Trichlorofluoromethane	1.874	101	31149	19.271	ug/l	99
8) Diethyl Ether	2.130	74	10936	20.153	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	19835	20.942	ug/l	95
10) Methyl Iodide	2.441	142	21014	17.788	ug/l	96
11) Tert butyl alcohol	2.971	59	23847	125.865	ug/l	99
12) 1,1-Dichloroethene	2.313	96	17147	18.528	ug/l	99
13) Acrolein	2.239	56	24855	95.264	ug/l	99
14) Allyl chloride	2.654	41	35280	20.091	ug/l	98
15) Acrylonitrile	3.062	53	68503	114.540	ug/l	99
16) Acetone	2.380	43	64597	111.586	ug/l	99
17) Carbon Disulfide	2.502	76	30965	13.547	ug/l	97
18) Methyl Acetate	2.703	43	41923	31.454	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	70251	21.699	ug/l	98
20) Methylene Chloride	2.782	84	21419	19.763	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	17388	18.390	ug/l	100
22) Diisopropyl ether	3.757	45	73121	21.139	ug/l #	86
23) Vinyl Acetate	3.721	43	305094	102.087	ug/l	100
24) 1,1-Dichloroethane	3.605	63	39868	20.380	ug/l	99
25) 2-Butanone	4.556	43	99066	116.907	ug/l	99
26) 2,2-Dichloropropane	4.465	77	28118	22.247	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	22576	19.599	ug/l	96
28) Bromochloromethane	4.885	49	21046	22.263	ug/l	98
29) Tetrahydrofuran	5.007	42	61153	111.310	ug/l	99
30) Chloroform	5.093	83	42259	20.994	ug/l	97
31) Cyclohexane	5.464	56	30753	17.783	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	35070	20.590	ug/l	99
36) 1,1-Dichloropropene	5.684	75	24998	19.690	ug/l	98
37) Ethyl Acetate	4.715	43	36276	22.673	ug/l	100
38) Carbon Tetrachloride	5.672	117	29859	21.761	ug/l	95
39) Methylcyclohexane	7.373	83	30124	19.357	ug/l	97
40) Benzene	6.031	78	78100	20.142	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
 Data File : VX045989.D
 Acq On : 30 Apr 2025 11:46
 Operator : JC/MD
 Sample : VX0430WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0430WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 05/02/2025
 Supervised By : Semsettin Yesilyurt 05/05/2025

Quant Time: May 01 03:36:01 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	4.928	41	20886	24.741	ug/l	99
42) 1,2-Dichloroethane	6.080	62	36192	22.599	ug/l	100
43) Isopropyl Acetate	6.336	43	55432	22.859	ug/l	99
44) Trichloroethene	7.123	130	18593	20.175	ug/l	98
45) 1,2-Dichloropropane	7.427	63	20323	21.007	ug/l	100
46) Dibromomethane	7.580	93	16754	22.559	ug/l	98
47) Bromodichloromethane	7.818	83	32842	22.144	ug/l	96
48) Methyl methacrylate	7.696	41	29705	23.725	ug/l	95
49) 1,4-Dioxane	7.659	88	11882	524.532	ug/l	97
51) 4-Methyl-2-Pentanone	8.568	43	200655	124.822	ug/l	99
52) Toluene	8.714	92	48144	20.520	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	27195	20.484	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	30656	21.995	ug/l	95
55) 1,1,2-Trichloroethane	9.153	97	21327	22.811	ug/l	96
56) Ethyl methacrylate	9.116	69	33367	23.060	ug/l	98
57) 1,3-Dichloropropane	9.305	76	37428	22.989	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	82443	112.632	ug/l	99
59) 2-Hexanone	9.427	43	148985	125.154	ug/l	99
60) Dibromochloromethane	9.519	129	23601	23.155	ug/l	97
61) 1,2-Dibromoethane	9.610	107	21044	22.235	ug/l	99
64) Tetrachloroethene	9.269	164	16952	20.089	ug/l	94
65) Chlorobenzene	10.079	112	53134	20.805	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	19451	21.937	ug/l	100
67) Ethyl Benzene	10.189	91	94433	20.646	ug/l	100
68) m/p-Xylenes	10.299	106	68936	41.438	ug/l	99
69) o-Xylene	10.640	106	34475	21.036	ug/l	97
70) Styrene	10.652	104	58136	21.493	ug/l	99
71) Bromoform	10.799	173	14163	21.393	ug/l #	96
73) Isopropylbenzene	10.957	105	93397	20.114	ug/l	99
74) N-amyl acetate	10.841	43	46998	21.159	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	35853	21.980	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	30347m	21.461	ug/l	
77) Bromobenzene	11.195	156	21288	19.842	ug/l	100
78) n-propylbenzene	11.299	91	105745	19.771	ug/l	100
79) 2-Chlorotoluene	11.360	91	67959	19.875	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	78107	20.342	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	8046	19.312	ug/l	94
82) 4-Chlorotoluene	11.451	91	77828	20.415	ug/l	100
83) tert-Butylbenzene	11.713	119	78473	20.643	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	79237	20.560	ug/l	98
85) sec-Butylbenzene	11.890	105	96175	20.598	ug/l	99
86) p-Isopropyltoluene	12.006	119	79550	20.666	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	40079	20.522	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	40092	20.249	ug/l	97
89) n-Butylbenzene	12.329	91	67485	20.217	ug/l	99
90) Hexachloroethane	12.536	117	13797	20.856	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	40561	20.890	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	8302	24.336	ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	22099	20.447	ug/l	98
94) Hexachlorobutadiene	13.725	225	9861	21.173	ug/l	97
95) Naphthalene	13.774	128	83334	20.719	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	23622	20.872	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
Data File : VX045989.D
Acq On : 30 Apr 2025 11:46
Operator : JC/MD
Sample : VX0430WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 01 03:36:01 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 :
VX0430WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025

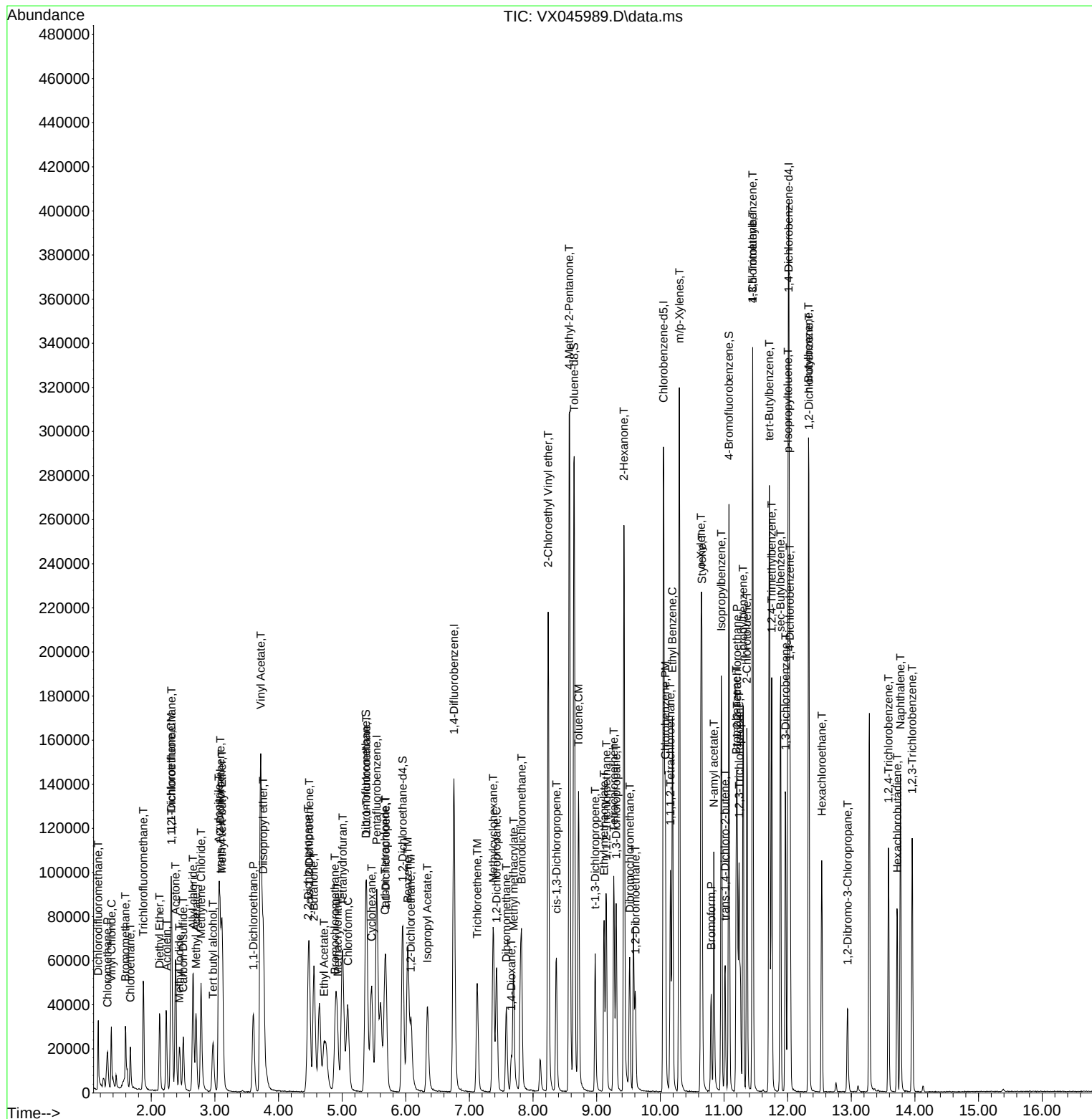
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0430WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/02/2025
Supervised By :Semsettin Yesilyurt 05/05/2025



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:	vx043025	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045985.D	1,2,3-Trichloropropane	JOHN	5/2/2025 9:59:52 AM	sam	5/5/2025 4:28:28 AM	Peak Integrated by Software
VX0430WBS01	VX045988.D	1,2,3-Trichloropropane	JOHN	5/2/2025 9:59:57 AM	sam	5/5/2025 4:28:33 AM	Peak Integrated by Software
VX0430WBSD01	VX045989.D	1,2,3-Trichloropropane	JOHN	5/2/2025 10:00:03 AM	sam	5/5/2025 4:28:37 AM	Peak Integrated by Software
VSTDCCC050	VX046011.D	1,2,3-Trichloropropane	JOHN	5/2/2025 10:00:27 AM	sam	5/5/2025 4:28:48 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 # VX043025

Review By	John Carlone	Review On	5/2/2025 10:12:27 AM
Supervise By	Semsettin Yesilyurt	Supervise On	5/5/2025 4:29:00 AM
SubDirectory	VX043025	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133790		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133791,VP133792		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045984.D	30 Apr 2025 09:32	JC/MD	Ok
2	VSTDCCC050	VX045985.D	30 Apr 2025 10:01	JC/MD	Ok,M
3	VX0430MBL01	VX045986.D	30 Apr 2025 10:32	JC/MD	Ok
4	VX0430WBL01	VX045987.D	30 Apr 2025 10:55	JC/MD	Ok
5	VX0430WBS01	VX045988.D	30 Apr 2025 11:19	JC/MD	Ok,M
6	VX0430WBSD01	VX045989.D	30 Apr 2025 11:46	JC/MD	Ok,M
7	IBLK	VX045990.D	30 Apr 2025 12:09	JC/MD	Ok
8	Q1914-14	VX045991.D	30 Apr 2025 12:32	JC/MD	Ok
9	Q1904-02	VX045992.D	30 Apr 2025 12:56	JC/MD	Ok
10	Q1901-09	VX045993.D	30 Apr 2025 13:19	JC/MD	Ok
11	Q1901-10	VX045994.D	30 Apr 2025 13:42	JC/MD	Ok
12	Q1915-01	VX045995.D	30 Apr 2025 14:06	JC/MD	Ok
13	Q1901-08	VX045996.D	30 Apr 2025 14:29	JC/MD	Ok
14	Q1905-04	VX045997.D	30 Apr 2025 14:53	JC/MD	Ok
15	Q1905-08	VX045998.D	30 Apr 2025 15:16	JC/MD	Ok
16	Q1906-04	VX045999.D	30 Apr 2025 15:40	JC/MD	Ok
17	Q1906-08	VX046000.D	30 Apr 2025 16:03	JC/MD	Ok
18	Q1906-12	VX046001.D	30 Apr 2025 16:27	JC/MD	Ok
19	Q1906-16	VX046002.D	30 Apr 2025 16:50	JC/MD	Ok
20	Q1907-02	VX046003.D	30 Apr 2025 17:13	JC/MD	Ok,M
21	Q1912-04	VX046004.D	30 Apr 2025 17:37	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX043025

Review By	John Carlone	Review On	5/2/2025 10:12:27 AM
Supervise By	Semsettin Yesilyurt	Supervise On	5/5/2025 4:29:00 AM
SubDirectory	VX043025	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133790		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133791,VP133792		

22	Q1912-08	VX046005.D	30 Apr 2025 18:00	JC/MD	Ok
23	Q1913-01	VX046006.D	30 Apr 2025 18:24	JC/MD	Ok
24	Q1913-03	VX046007.D	30 Apr 2025 18:47	JC/MD	Ok
25	Q1913-04	VX046008.D	30 Apr 2025 19:10	JC/MD	ReRun
26	Q1913-02	VX046009.D	30 Apr 2025 19:34	JC/MD	Ok
27	Q1901-11	VX046010.D	30 Apr 2025 19:57	JC/MD	Ok
28	VSTDCCC050	VX046011.D	30 Apr 2025 20:21	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#	SampleID	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	ICVVX040225	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 # VX043025

Review By	John Carlone	Review On	5/2/2025 10:12:27 AM
Supervise By	Semsettin Yesilyurt	Supervise On	5/5/2025 4:29:00 AM
SubDirectory	VX043025	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133790		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133791,VP133792		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045984.D	30 Apr 2025 09:32		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045985.D	30 Apr 2025 10:01	pH#Lot#V12668	JC/MD	Ok,M
3	VX0430MBL01	VX0430MBL01	VX045986.D	30 Apr 2025 10:32		JC/MD	Ok
4	VX0430WBL01	VX0430WBL01	VX045987.D	30 Apr 2025 10:55		JC/MD	Ok
5	VX0430WBS01	VX0430WBS01	VX045988.D	30 Apr 2025 11:19		JC/MD	Ok,M
6	VX0430WBSD01	VX0430WBSD01	VX045989.D	30 Apr 2025 11:46		JC/MD	Ok,M
7	IBLK	IBLK	VX045990.D	30 Apr 2025 12:09		JC/MD	Ok
8	Q1914-14	FB04282025	VX045991.D	30 Apr 2025 12:32	vial A pH<2 FB	JC/MD	Ok
9	Q1904-02	VNJ-210	VX045992.D	30 Apr 2025 12:56	vial A pH#5.0	JC/MD	Ok
10	Q1901-09	B-170-SB01	VX045993.D	30 Apr 2025 13:19	vial A pH#5.0	JC/MD	Ok
11	Q1901-10	B-167-SB02	VX045994.D	30 Apr 2025 13:42	vial A pH#5.0	JC/MD	Ok
12	Q1915-01	WC-04282025	VX045995.D	30 Apr 2025 14:06	vial A pH#5.0	JC/MD	Ok
13	Q1901-08	B-167-SB01	VX045996.D	30 Apr 2025 14:29	vial A pH#5.0	JC/MD	Ok
14	Q1905-04	MH-G	VX045997.D	30 Apr 2025 14:53	vial A pH#5.0	JC/MD	Ok
15	Q1905-08	MH-H	VX045998.D	30 Apr 2025 15:16	vial A pH#5.0	JC/MD	Ok
16	Q1906-04	WC-4	VX045999.D	30 Apr 2025 15:40	vial A pH#5.0	JC/MD	Ok
17	Q1906-08	WC-5	VX046000.D	30 Apr 2025 16:03	vial A pH#5.0	JC/MD	Ok
18	Q1906-12	WC-6	VX046001.D	30 Apr 2025 16:27	vial A pH#5.0	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX043025

Review By	John Carlone	Review On	5/2/2025 10:12:27 AM
Supervise By	Semsettin Yesilyurt	Supervise On	5/5/2025 4:29:00 AM
SubDirectory	VX043025	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133790		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133791,VP133792		

19	Q1906-16	WC-7	VX046002.D	30 Apr 2025 16:50	vial A pH#5.0	JC/MD	Ok
20	Q1907-02	CO-8R-WC	VX046003.D	30 Apr 2025 17:13	vial A pH#5.0	JC/MD	Ok,M
21	Q1912-04	MH-E	VX046004.D	30 Apr 2025 17:37	vial A pH#5.0	JC/MD	Ok
22	Q1912-08	MH-F	VX046005.D	30 Apr 2025 18:00	vial A pH#5.0	JC/MD	Ok
23	Q1913-01	WC-12-S-202504	VX046006.D	30 Apr 2025 18:24	vial A pH#5.0	JC/MD	Ok
24	Q1913-03	WC-13-S-202504	VX046007.D	30 Apr 2025 18:47	vial A pH#5.0	JC/MD	Ok
25	Q1913-04	WC-13-A-202504	VX046008.D	30 Apr 2025 19:10	vial A pH#5.0 Surrogate Fail	JC/MD	ReRun
26	Q1913-02	WC-12-A-202504	VX046009.D	30 Apr 2025 19:34	vial A pH#5.0	JC/MD	Ok
27	Q1901-11	B-170-SB02	VX046010.D	30 Apr 2025 19:57	vial A pH#5.0	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX046011.D	30 Apr 2025 20:21		JC/MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	Q1901	OrderDate:	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-08	B-167-SB01	TCLP	TCLP VOA	8260D	04/26/25		04/30/25	04/28/25
Q1901-09	B-170-SB01	TCLP	TCLP VOA	8260D	04/26/25		04/30/25	04/28/25
Q1901-10	B-167-SB02	TCLP	TCLP VOA	8260D	04/26/25		04/30/25	04/28/25
Q1901-11	B-170-SB02	TCLP	TCLP VOA	8260D	04/26/25		04/30/25	04/28/25

SOP ID :	M1311-TCLP-15	
SDG No :	N/A	Start Prep Date : 04/29/2025 Time : 17:20
Weigh By :	JP	End Prep Date : 04/30/2025 Time : 11:30
Balance ID :	WC SC-7	Combination Ratio : 20
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch <i>JP N/A J No 43025</i>
Extraction By :	JP	Initial Room Temperature: 23 °C
Filter By :	JP	Final Room Temperature: 22 °C
Pipette ID :	WC	TCLP Technician Signature : <i>JP</i>
Tumbler ID :	ZHE-1 / ZHE-2	Supervisor By : <i>12</i>
TCLP Filter ID :	50223706	

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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
N/A	N/A	N/A
N/A	N/A	N/A
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	430992	N/A

Extraction Conformance/Non-Conformance Comments:

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/30/25 12:30	<i>JP</i> <i>12:30pm</i>	<i>JC</i> <i>1:00 PM</i>
	Preparation Group	Analysis Group

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167775TB	LEB775	18	N/A	500	N/A	N/A	N/A	4.93	N/A	ZHE-2
Q1901-08	B-167-SB01	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1901-09	B-170-SB01	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1901-10	B-167-SB02	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1901-11	B-170-SB02	04	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1904-02	VNJ-210	05	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1905-04	MH-G	06	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1905-08	MH-H	07	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1906-04	WC-4	08	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1906-08	WC-5	09	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1906-12	WC-6	10	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1906-16	WC-7	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1907-02	CO-8R-WC	12	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1912-04	MH-E	13	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1912-08	MH-F	14	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1913-01	WC-12-S-202504	15	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1913-03	WC-13-S-202504	16	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1915-01	WC-04282025	17	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167775TB	LEB775	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-08	B-167-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-09	B-170-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-10	B-167-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1901-11	B-170-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1904-02	VNJ-210	N/A	N/A	N/A	N/A	100	N/A
Q1905-04	MH-G	N/A	N/A	N/A	N/A	100	N/A
Q1905-08	MH-H	N/A	N/A	N/A	N/A	100	N/A
Q1906-04	WC-4	N/A	N/A	N/A	N/A	100	N/A
Q1906-08	WC-5	N/A	N/A	N/A	N/A	100	N/A
Q1906-12	WC-6	N/A	N/A	N/A	N/A	100	N/A
Q1906-16	WC-7	N/A	N/A	N/A	N/A	100	N/A
Q1907-02	CO-8R-WC	N/A	N/A	N/A	N/A	100	N/A
Q1912-04	MH-E	N/A	N/A	N/A	N/A	100	N/A
Q1912-08	MH-F	N/A	N/A	N/A	N/A	100	N/A
Q1913-01	WC-12-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1913-03	WC-13-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1915-01	WC-04282025	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE Q1907 WorkList ID : 189189 Department : TCLP Extraction Date : 04-29-2025 07:59:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1913-01	WC-12-S-202504	Solid	TCLP ZHE Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311 ZHE
Q1913-03	WC-13-S-202504	Solid	TCLP ZHE Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311 ZHE
Q1915-01	WC-04282025	Solid	TCLP ZHE Extraction	Cool 4 deg C	CAMP02	L41	04/28/2025	1311 ZHE
Q1901-08	B-167-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311 ZHE
Q1901-09	B-170-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311 ZHE
Q1901-10	B-167-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311 ZHE
Q1901-11	B-170-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311 ZHE
Q1904-02	VNJ-210	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311 ZHE
Q1905-04	MH-G	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311 ZHE
Q1905-08	MH-H	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311 ZHE
Q1906-04	WC-4	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311 ZHE
Q1906-08	WC-5	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311 ZHE
Q1906-12	WC-6	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311 ZHE
Q1906-16	WC-7	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311 ZHE
Q1912-04	MH-E	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311 ZHE
Q1912-08	MH-F	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L51	04/29/2025	1311 ZHE
Q1907-02	CO-8R-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L51	04/29/2025	1311 ZHE
							04/28/2025	1311 ZHE

Date/Time 04/29/25 17:10
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 04/29/25 19:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]