

Hit Summary Sheet
SW-846

SDG No.: Q1488
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q1488-02	ENV-101-SB01 ENV-101-SB01	TCLP	2-Butanone	5.20	J	1.30	25.0	ug/L
			Total Voc :	5.20				
			Total Concentration:	5.20				
Client ID: Q1488-04	ENV-101-SB02 ENV-101-SB02	TCLP	2-Butanone	6.10	J	1.30	25.0	ug/L
			Total Voc :	6.10				
			Total Concentration:	6.10				
Client ID: Q1488-06	ENV-102-SB01 ENV-102-SB01	TCLP	2-Butanone	6.20	J	1.30	25.0	ug/L
			Total Voc :	6.20				
			Total Concentration:	6.20				
Client ID: Q1488-08	ENV-102-SB02 ENV-102-SB02	TCLP	2-Butanone	5.70	J	1.30	25.0	ug/L
			Total Voc :	5.70				
			Total Concentration:	5.70				
Client ID: Q1488-10	ENV-104-SB01 ENV-104-SB01	TCLP	2-Butanone	5.40	J	1.30	25.0	ug/L
			Total Voc :	5.40				
			Total Concentration:	5.40				
Client ID: Q1488-12	ENV-104-SB02 ENV-104-SB02	TCLP	2-Butanone	6.80	J	1.30	25.0	ug/L
			Total Voc :	6.80				
			Total Concentration:	6.80				



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25	
Client Sample ID:	ENV-101-SB01			SDG No.:	Q1488	
Lab Sample ID:	Q1488-02			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045170.D	1		03/06/25 15:52	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	5.20	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.4		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	51.8		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	78700	5.55			
540-36-3	1,4-Difluorobenzene	161000	6.757			
3114-55-4	Chlorobenzene-d5	146000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	59900	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	03/04/25		
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25		
Client Sample ID:	ENV-101-SB02			SDG No.:	Q1488		
Lab Sample ID:	Q1488-04			Matrix:	TCLP		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000		uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :	SW5035						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045171.D	1		03/06/25 16:16	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	6.10	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.6		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	53.2		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76600	5.544			
540-36-3	1,4-Difluorobenzene	153000	6.757			
3114-55-4	Chlorobenzene-d5	145000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	56000	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:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25	
Client Sample ID:	ENV-102-SB01			SDG No.:	Q1488	
Lab Sample ID:	Q1488-06			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
VX045172.D	1		03/06/25 16:39	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	6.20	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.8		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	84600	5.55			
540-36-3	1,4-Difluorobenzene	168000	6.757			
3114-55-4	Chlorobenzene-d5	153000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	63000	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:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25	
Client Sample ID:	ENV-102-SB02			SDG No.:	Q1488	
Lab Sample ID:	Q1488-08			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
VX045173.D	1		03/06/25 17:02	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	5.70	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.8		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76600	5.544			
540-36-3	1,4-Difluorobenzene	156000	6.757			
3114-55-4	Chlorobenzene-d5	140000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	57300	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:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25	
Client Sample ID:	ENV-104-SB01			SDG No.:	Q1488	
Lab Sample ID:	Q1488-10			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
VX045174.D	1		03/06/25 17:25	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	5.40	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	51.6		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75500	5.55			
540-36-3	1,4-Difluorobenzene	152000	6.757			
3114-55-4	Chlorobenzene-d5	138000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	55500	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:	03/04/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	03/04/25	
Client Sample ID:	ENV-104-SB02			SDG No.:	Q1488	
Lab Sample ID:	Q1488-12			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
VX045175.D	1		03/06/25 17:49	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	6.80	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	52.1		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75000	5.55			
540-36-3	1,4-Difluorobenzene	148000	6.757			
3114-55-4	Chlorobenzene-d5	137000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	56400	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



QC SUMMARY

Surrogate Summary

SDG No.: **Q1488**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1488-02	ENV-101-SB01	1,2-Dichloroethane-d4	50	54.4	109	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104	70 (75)	130 (124)
		Toluene-d8	50	51.8	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.0	104	70 (77)	130 (121)
Q1488-04	ENV-101-SB02	1,2-Dichloroethane-d4	50	54.6	109	70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104	70 (75)	130 (124)
		Toluene-d8	50	53.2	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.6	105	70 (77)	130 (121)
Q1488-06	ENV-102-SB01	1,2-Dichloroethane-d4	50	53.8	108	70 (74)	130 (125)
		Dibromofluoromethane	50	51.5	103	70 (75)	130 (124)
		Toluene-d8	50	51.1	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.2	104	70 (77)	130 (121)
Q1488-08	ENV-102-SB02	1,2-Dichloroethane-d4	50	53.5	107	70 (74)	130 (125)
		Dibromofluoromethane	50	51.1	102	70 (75)	130 (124)
		Toluene-d8	50	50.8	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.8	102	70 (77)	130 (121)
Q1488-10	ENV-104-SB01	1,2-Dichloroethane-d4	50	52.8	106	70 (74)	130 (125)
		Dibromofluoromethane	50	50.6	101	70 (75)	130 (124)
		Toluene-d8	50	51.6	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.9	104	70 (77)	130 (121)
Q1488-12	ENV-104-SB02	1,2-Dichloroethane-d4	50	52.4	105	70 (74)	130 (125)
		Dibromofluoromethane	50	50.0	100	70 (75)	130 (124)
		Toluene-d8	50	52.1	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.5	105	70 (77)	130 (121)

Surrogate Summary

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1501-05MS	BR-05-465-030525MS	1,2-Dichloroethane-d4	50	51.4	103	70 (74)	130 (125)
		Dibromofluoromethane	50	0	0 *	70 (75)	130 (124)
		Toluene-d8	50	53.2	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.7	109	70 (77)	130 (121)
Q1501-06MSD	BR-05-465-030525MSD	1,2-Dichloroethane-d4	50	49.2	98	70 (74)	130 (125)
		Dibromofluoromethane	50	0	0 *	70 (75)	130 (124)
		Toluene-d8	50	48.1	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.8	98	70 (77)	130 (121)
VX0306WBL01	VX0306WBL01	1,2-Dichloroethane-d4	50	53.9	108	70 (74)	130 (125)
		Dibromofluoromethane	50	52.4	105	70 (75)	130 (124)
		Toluene-d8	50	52.3	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.8	104	70 (77)	130 (121)
VX0306WBS01	VX0306WBS01	1,2-Dichloroethane-d4	50	50.2	100	70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102	70 (75)	130 (124)
		Toluene-d8	50	50.3	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.2	98	70 (77)	130 (121)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample Result	Result	Units	Rec	Qual	RPD	RPD Qual	Low	High	RPD
Lab Sample ID :	Q1501-05MS	Client Sample ID :	BR-05-465-030525MS					Datafile :	VX045163.D		
Vinyl chloride	50	0	47.4	ug/L	95				70 (69)	130 (125)	
1,1-Dichloroethene	50	0	70.0	ug/L	140	*			70 (53)	130 (162)	
2-Butanone	250	5.70	290	ug/L	114				40 (67)	160 (137)	
Carbon Tetrachloride	50	0	50.1	ug/L	100				70 (66)	130 (133)	
Chloroform	50	0	50.2	ug/L	100				70 (83)	130 (119)	
Benzene	50	0	51.7	ug/L	103				70 (81)	130 (128)	
1,2-Dichloroethane	50	0	51.6	ug/L	103				70 (76)	130 (120)	
Trichloroethene	50	0	94.9	ug/L	190	*			70 (28)	130 (175)	
Tetrachloroethene	50	0	88.9	ug/L	178	*			70 (48)	130 (153)	
Chlorobenzene	50	0	51.6	ug/L	103				70 (85)	130 (114)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample Result	Result	Units	Rec	Qual	RPD	RPD Qual	Low	High	RPD
Lab Sample ID :	Q1501-06MSD	Client Sample ID :	BR-05-465-030525MSD					Datafile :	VX045164.D		
Vinyl chloride	50	0	43.3	ug/L	87		9		70 (69)	130 (125)	20 (20)
1,1-Dichloroethene	50	0	73.0	ug/L	146	*	4		70 (53)	130 (162)	20 (20)
2-Butanone	250	5.70	280	ug/L	110		4		40 (67)	160 (137)	20 (20)
Carbon Tetrachloride	50	0	47.3	ug/L	95		6		70 (66)	130 (133)	20 (20)
Chloroform	50	0	48.6	ug/L	97		3		70 (83)	130 (119)	20 (20)
Benzene	50	0	49.0	ug/L	98		5		70 (81)	130 (128)	20 (20)
1,2-Dichloroethane	50	0	49.8	ug/L	100		4		70 (76)	130 (120)	20 (20)
Trichloroethene	50	0	91.5	ug/L	183	*	4		70 (28)	130 (175)	20 (20)
Tetrachloroethene	50	0	85.3	ug/L	171	*	4		70 (48)	130 (153)	20 (20)
Chlorobenzene	50	0	49.8	ug/L	100		4		70 (85)	130 (114)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045158.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0306WBS01	Vinyl chloride	20	19.4	ug/L	97			70 (65)	130 (117)	
	1,1-Dichloroethene	20	21.3	ug/L	106			70 (74)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.5	ug/L	103			70 (77)	130 (113)	
	Chloroform	20	21.2	ug/L	106			70 (79)	130 (113)	
	Benzene	20	21.5	ug/L	108			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.4	ug/L	107			70 (80)	130 (115)	
	Trichloroethene	20	20.8	ug/L	104			70 (77)	130 (113)	
	Tetrachloroethene	20	22.2	ug/L	111			70 (67)	130 (123)	
	Chlorobenzene	20	21.6	ug/L	108			70 (82)	130 (109)	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0306WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1488

SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: VX045157.D

Lab Sample ID: VX0306WBL01

Date Analyzed: 03/06/2025

Time Analyzed: 10:46

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
VX0306WBS01	VX0306WBS01	VX045158.D	03/06/2025
BR-05-465-030525MS	Q1501-05MS	VX045163.D	03/06/2025
BR-05-465-030525MSD	Q1501-06MSD	VX045164.D	03/06/2025
ENV-101-SB01	Q1488-02	VX045170.D	03/06/2025
ENV-101-SB02	Q1488-04	VX045171.D	03/06/2025
ENV-102-SB01	Q1488-06	VX045172.D	03/06/2025
ENV-102-SB02	Q1488-08	VX045173.D	03/06/2025
ENV-104-SB01	Q1488-10	VX045174.D	03/06/2025
ENV-104-SB02	Q1488-12	VX045175.D	03/06/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488
Lab File ID: VX045067.D BFB Injection Date: 02/28/2025
Instrument ID: MSVOA_X BFB Injection Time: 01:03
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	20.7
75	30.0 - 60.0% of mass 95	53.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.6 (95.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 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	VX045068.D	02/28/2025	01:27
VSTDIC005	VSTDIC005	VX045069.D	02/28/2025	02:13
VSTDIC020	VSTDIC020	VX045070.D	02/28/2025	02:37
VSTDIC050	VSTDIC050	VX045071.D	02/28/2025	03:00
VSTDIC100	VSTDIC100	VX045072.D	02/28/2025	03:23
VSTDIC150	VSTDIC150	VX045073.D	02/28/2025	03:47

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488
Lab File ID: VX045154.D BFB Injection Date: 03/06/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:09
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	70.6
175	5.0 - 9.0% of mass 174	5.3 (7.5) 1
176	95.0 - 101.0% of mass 174	67.9 (96.1) 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	VX045155.D	03/06/2025	09:56
VX0306WBL01	VX0306WBL01	VX045157.D	03/06/2025	10:46
VX0306WBS01	VX0306WBS01	VX045158.D	03/06/2025	11:10
BR-05-465-030525MS	Q1501-05MS	VX045163.D	03/06/2025	13:09
BR-05-465-030525MSD	Q1501-06MSD	VX045164.D	03/06/2025	13:33
ENV-101-SB01	Q1488-02	VX045170.D	03/06/2025	15:52
ENV-101-SB02	Q1488-04	VX045171.D	03/06/2025	16:16
ENV-102-SB01	Q1488-06	VX045172.D	03/06/2025	16:39
ENV-102-SB02	Q1488-08	VX045173.D	03/06/2025	17:02
ENV-104-SB01	Q1488-10	VX045174.D	03/06/2025	17:25
ENV-104-SB02	Q1488-12	VX045175.D	03/06/2025	17:49

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488
Lab File ID: VX045155.D Date Analyzed: 03/06/2025
Instrument ID: MSVOA_X Time Analyzed: 09:56
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	99532	5.54	175834	6.76	153746	10.05
UPPER LIMIT	199064	6.044	351668	7.257	307492	10.549
LOWER LIMIT	49766	5.044	87917	6.257	76873	9.549
EPA SAMPLE NO.						
ENV-101-SB01	78735	5.55	160534	6.76	146470	10.05
ENV-101-SB02	76620	5.54	153454	6.76	144581	10.05
ENV-102-SB01	84608	5.55	167928	6.76	153445	10.05
ENV-102-SB02	76581	5.54	156077	6.76	139915	10.05
ENV-104-SB01	75491	5.55	152473	6.76	138291	10.05
ENV-104-SB02	75040	5.55	148256	6.76	137450	10.05
BR-05-465-030525MS	101112	5.54	179083	6.76	156313	10.06
BR-05-465-030525MSD	100565	5.55	182698	6.76	154927	10.05
VX0306WBL01	71177	5.54	139793	6.76	129041	10.05
VX0306WBS01	97102	5.54	175752	6.76	147757	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.: Q1488 SAS No.: Q1488 SDG NO.: Q1488
Lab File ID: VX045155.D Date Analyzed: 03/06/2025
Instrument ID: MSVOA_X Time Analyzed: 09:56
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	69403	12.018				
UPPER LIMIT	138806	12.518				
LOWER LIMIT	34701.5	11.518				
EPA SAMPLE NO.						
ENV-101-SB01	59867	12.02				
ENV-101-SB02	55987	12.02				
ENV-102-SB01	63036	12.02				
ENV-102-SB02	57260	12.02				
ENV-104-SB01	55464	12.02				
ENV-104-SB02	56384	12.02				
BR-05-465-030525MS	67219	12.02				
BR-05-465-030525MSD	68360	12.02				
VX0306WBL01	53719	12.02				
VX0306WBS01	67123	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:	VX0306WBL01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBL01	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
VX045157.D	1		03/06/25 10:46	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	71200	5.544			
540-36-3	1,4-Difluorobenzene	140000	6.757			
3114-55-4	Chlorobenzene-d5	129000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	53700	12.024			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0306WBS01	SDG No.:	Q1488
Lab Sample ID:	VX0306WBS01	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
VX045158.D	1		03/06/25 11:10	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	19.4		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.3		0.26	1.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.5		0.25	1.00	ug/L
67-66-3	Chloroform	21.2		0.26	1.00	ug/L
71-43-2	Benzene	21.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.8		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	22.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.6		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.3		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	97100	5.544			
540-36-3	1,4-Difluorobenzene	176000	6.757			
3114-55-4	Chlorobenzene-d5	148000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	67100	12.024			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525MS	SDG No.:	Q1488
Lab Sample ID:	Q1501-05MS	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
VX045163.D	1		03/06/25 13:09	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	47.4		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	70.0		0.26	1.00	ug/L
78-93-3	2-Butanone	290		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	50.1		0.25	1.00	ug/L
67-66-3	Chloroform	50.2		0.26	1.00	ug/L
71-43-2	Benzene	51.7		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	51.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	94.9		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	88.9		0.25	1.00	ug/L
108-90-7	Chlorobenzene	51.6		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.4		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	0	*	70 (75) - 130 (124)	0%	SPK: 50
2037-26-5	Toluene-d8	53.2		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.7		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.543			
540-36-3	1,4-Difluorobenzene	179000	6.757			
3114-55-4	Chlorobenzene-d5	156000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	67200	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:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525MSD	SDG No.:	Q1488
Lab Sample ID:	Q1501-06MSD	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
VX045164.D	1		03/06/25 13:33	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	43.3		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	73.0		0.26	1.00	ug/L
78-93-3	2-Butanone	280		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	47.3		0.25	1.00	ug/L
67-66-3	Chloroform	48.6		0.26	1.00	ug/L
71-43-2	Benzene	49.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	49.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	91.5		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	85.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	49.8		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	0	*	70 (75) - 130 (124)	0%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.55			
540-36-3	1,4-Difluorobenzene	183000	6.757			
3114-55-4	Chlorobenzene-d5	155000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	68400	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.: Q1488 SAS No.: Q1488 SDG No.: Q1488
 Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025
 Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX045068.D		RRF005 = VX045069.D		RRF020 = VX045070.D			
		RRF050 = VX045071.D		RRF100 = VX045072.D		RRF150 = VX045073.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1	
1,1-Dichloroethene	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.3	
2-Butanone	0.476	0.545	0.610	0.579	0.553	0.570	0.555	8.1	
Carbon Tetrachloride	0.463	0.463	0.447	0.468	0.489	0.463	0.465	3	
Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	2	
Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.7	
1,2-Dichloroethane	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.6	
Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.7	
Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.3	
Chlorobenzene	0.968	1.054	1.090	1.092	1.100	1.045	1.058	4.7	
1,2-Dichloroethane-d4		0.836	0.784	0.757	0.783	0.817	0.795	3.9	
Dibromofluoromethane		0.329	0.335	0.329	0.340	0.338	0.334	1.5	
Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.4	
4-Bromofluorobenzene		0.383	0.393	0.402	0.410	0.421	0.402	3.7	

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: MSVOA_X Calibration Date/Time: 03/06/2025 09:56

Lab File ID: VX045155.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.764	0.725		-5.11	20
1,1-Dichloroethene	0.614	0.600		-2.28	20
2-Butanone	0.555	0.564		1.62	20
Carbon Tetrachloride	0.465	0.458		-1.5	20
Chloroform	1.239	1.209		-2.42	20
Benzene	1.448	1.464		1.11	20
1,2-Dichloroethane	0.521	0.534		2.49	20
Trichloroethene	0.340	0.341		0.29	20
Tetrachloroethene	0.320	0.322		0.63	20
Chlorobenzene	1.058	1.078	0.3	1.89	20
1,2-Dichloroethane-d4	0.795	0.783		-1.51	20
Dibromofluoromethane	0.334	0.341		2.1	20
Toluene-d8	1.212	1.244		2.64	20
4-Bromofluorobenzene	0.402	0.419		4.23	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\VX030625\
 Data File : VX045170.D
 Acq On : 06 Mar 2025 15:52
 Operator : JC/MD
 Sample : Q1488-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-101-SB01

Quant Time: Mar 07 00:45:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

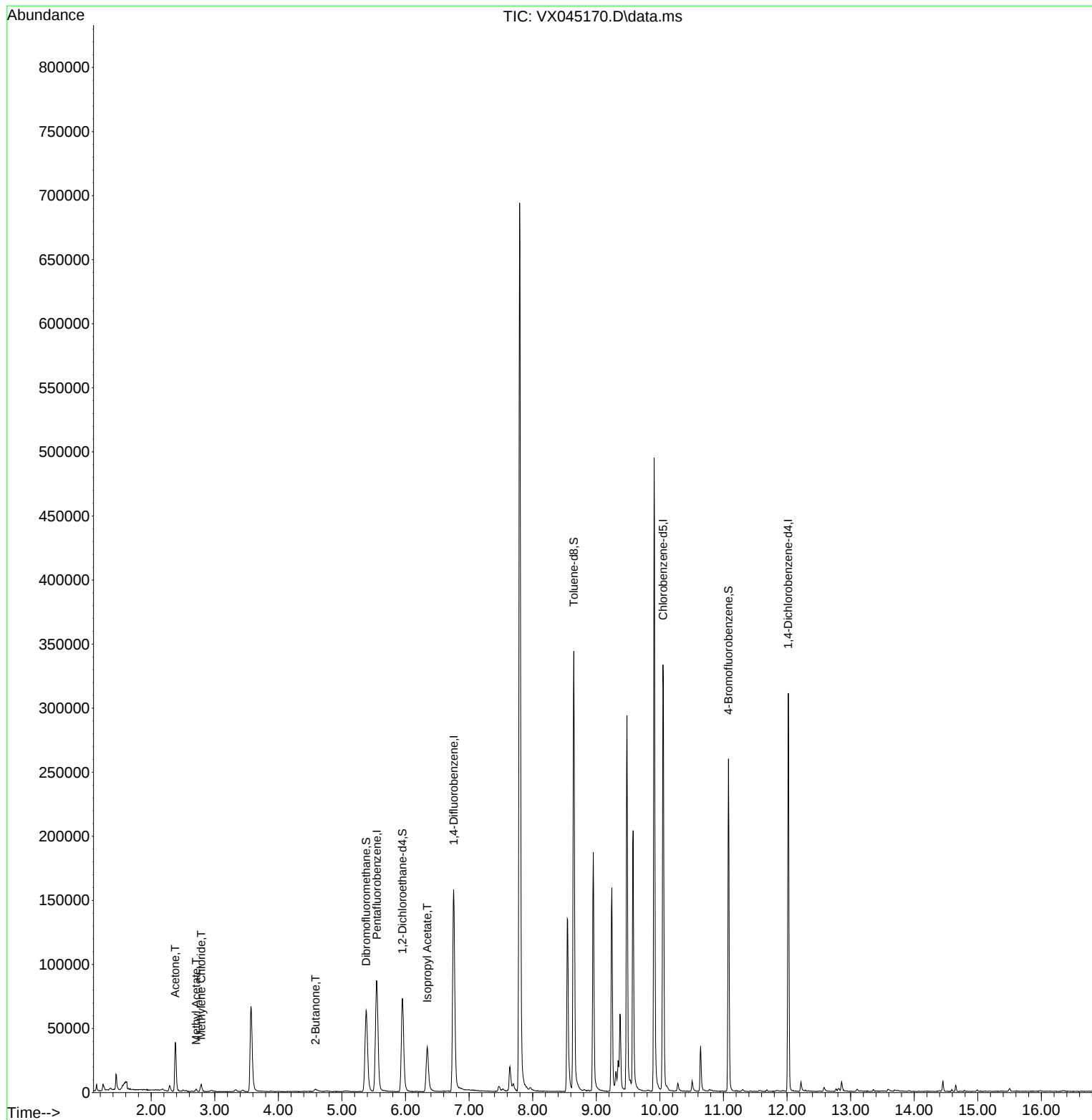
Internal Standards						
1) Pentafluorobenzene	5.550	168	78735	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	160534	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	146470	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59867	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	68170	54.432	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.860%	
35) Dibromofluoromethane	5.379	113	55628	51.822	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.640%	
50) Toluene-d8	8.647	98	201436	51.761	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.520%	
62) 4-Bromofluorobenzene	11.079	95	67095	52.029	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.060%	
Target Compounds						
					Qvalue	
16) Acetone	2.380	43	41771	71.886	ug/l	100
18) Methyl Acetate	2.709	43	2222	1.590	ug/l	97
20) Methylene Chloride	2.788	84	2646	2.299	ug/l	89
25) 2-Butanone	4.587	43	4567	5.221	ug/l	97
43) Isopropyl Acetate	6.342	43	50668	18.063	ug/l	98

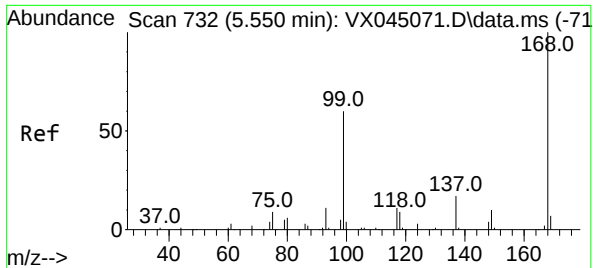
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045170.D
Acq On : 06 Mar 2025 15:52
Operator : JC/MD
Sample : Q1488-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 07 00:45:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

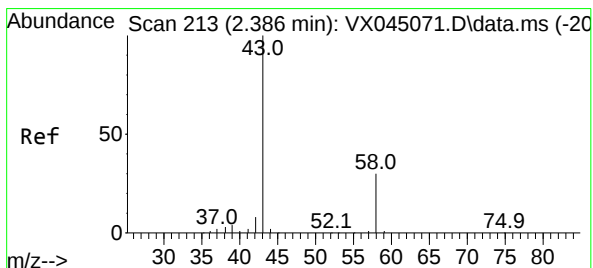
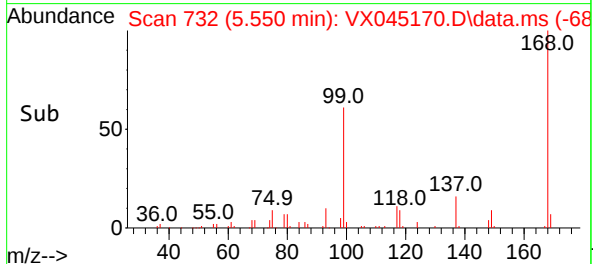
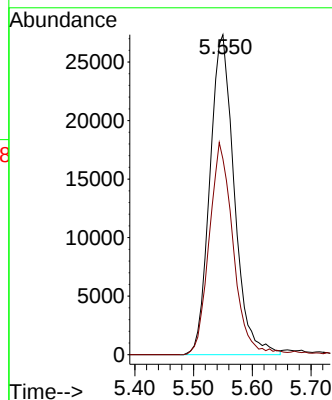
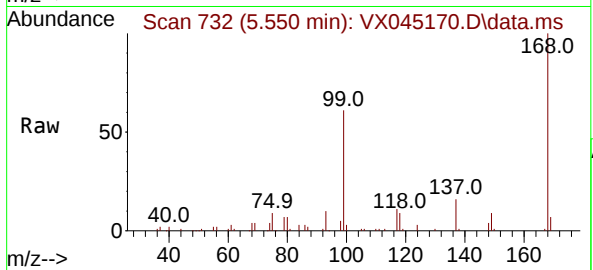




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

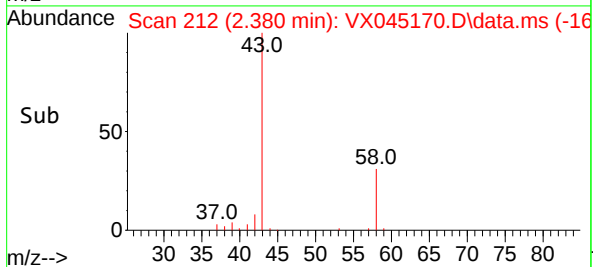
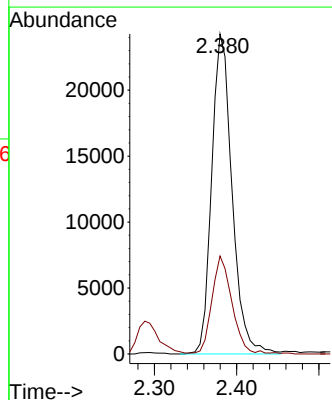
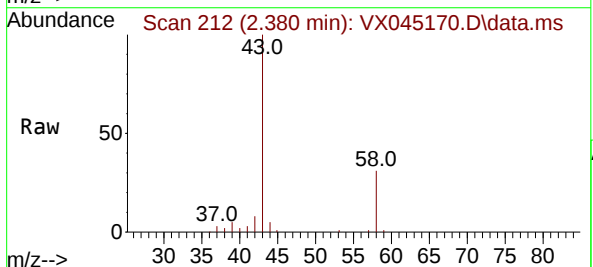
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB01

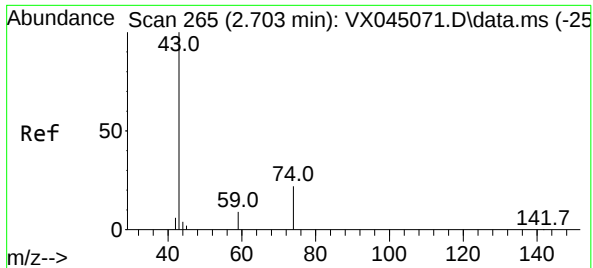
Tgt Ion:168 Resp: 78735
Ion Ratio Lower Upper
168 100
99 61.1 48.2 72.4



#16
Acetone
Concen: 71.886 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045170.D
Acq: 06 Mar 2025 15:52

Tgt Ion: 43 Resp: 41771
Ion Ratio Lower Upper
43 100
58 30.4 24.2 36.4





#18

Methyl Acetate

Concen: 1.590 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

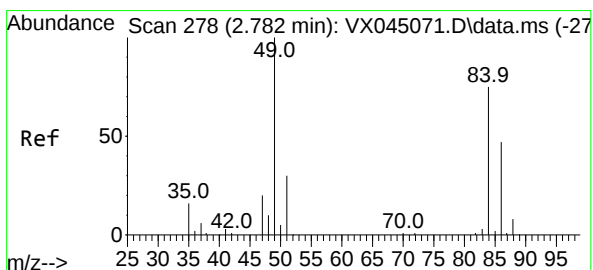
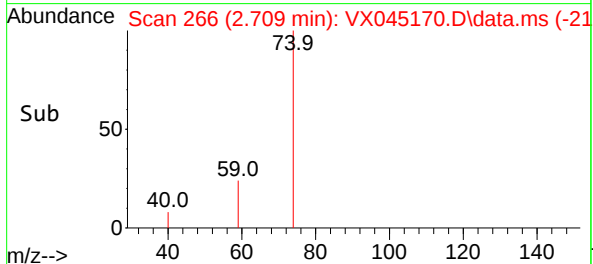
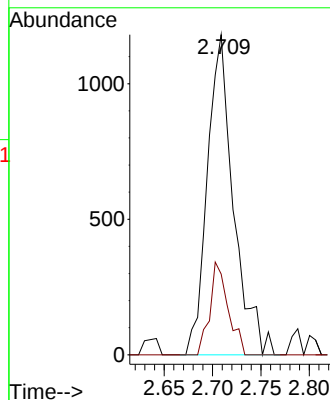
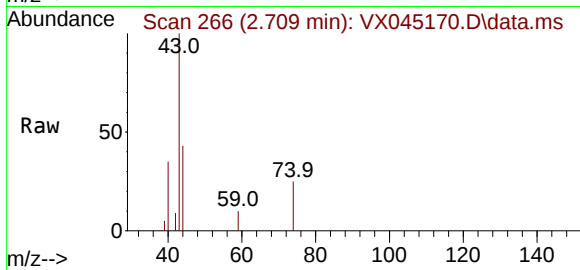
ENV-101-SB01

Tgt Ion: 43 Resp: 2222

Ion Ratio Lower Upper

43 100

74 20.2 17.4 26.2



#20

Methylene Chloride

Concen: 2.299 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

Tgt Ion: 84 Resp: 2646

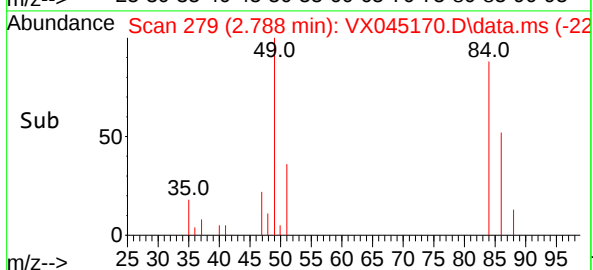
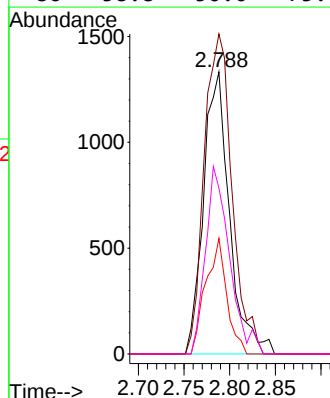
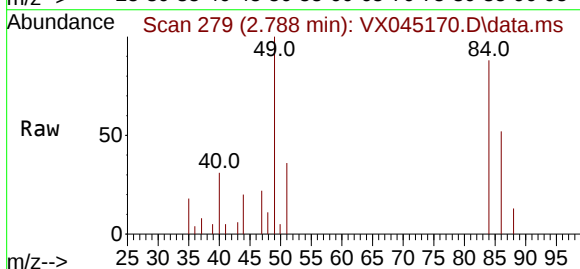
Ion Ratio Lower Upper

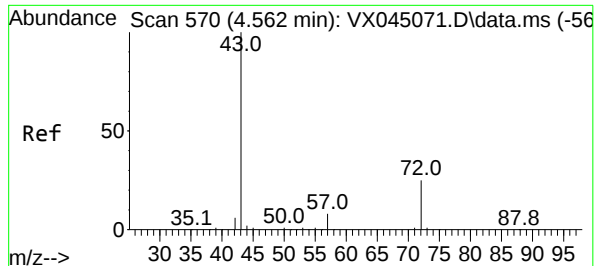
84 100

49 113.4 106.5 159.7

51 41.0 32.1 48.1

86 58.8 50.0 75.0





#25

2-Butanone

Concen: 5.221 ug/l

RT: 4.587 min Scan# 51

Delta R.T. 0.024 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

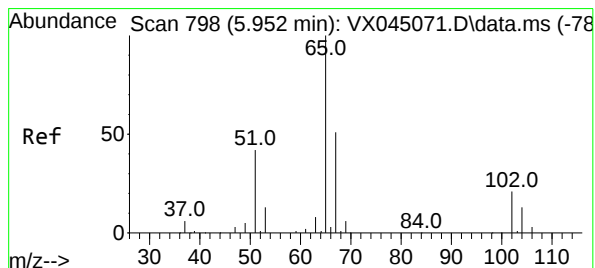
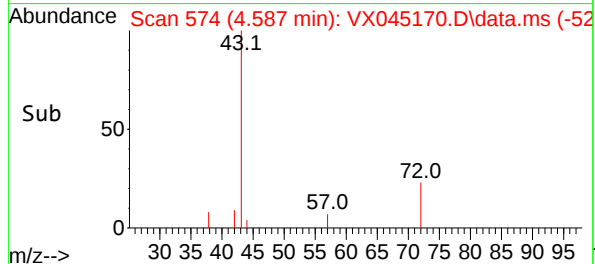
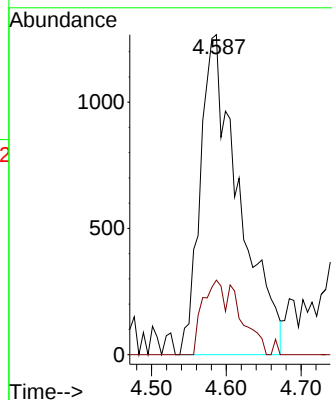
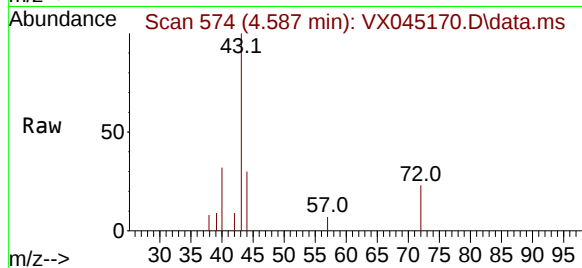
ENV-101-SB01

Tgt Ion: 43 Resp: 4567

Ion Ratio Lower Upper

43 100

72 23.3 20.0 30.0



#33

1,2-Dichloroethane-d4

Concen: 54.432 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045170.D

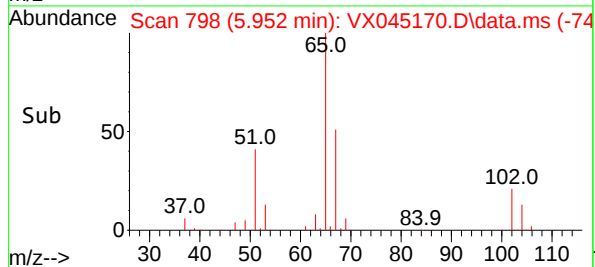
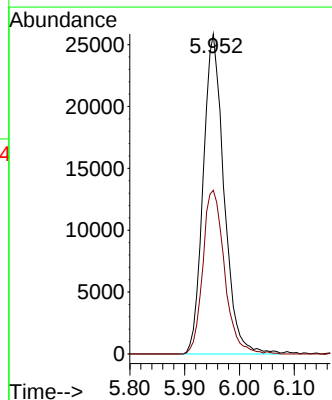
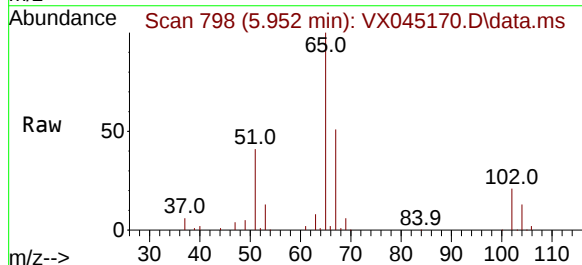
Acq: 06 Mar 2025 15:52

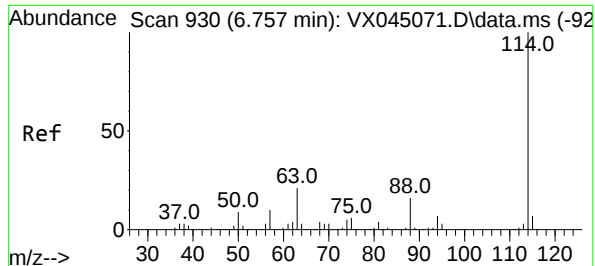
Tgt Ion: 65 Resp: 68170

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB01

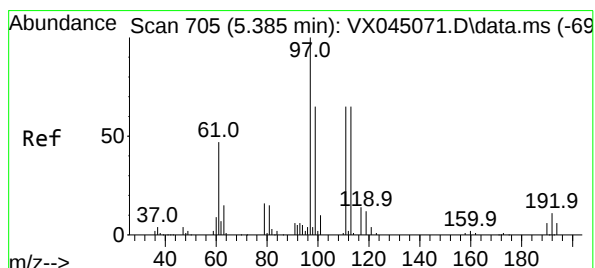
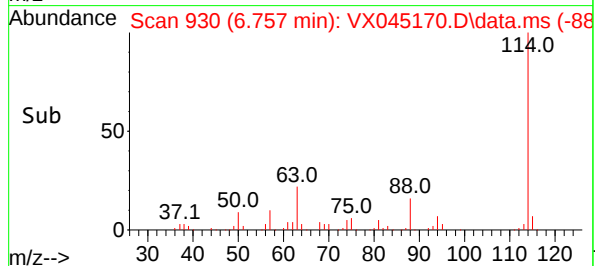
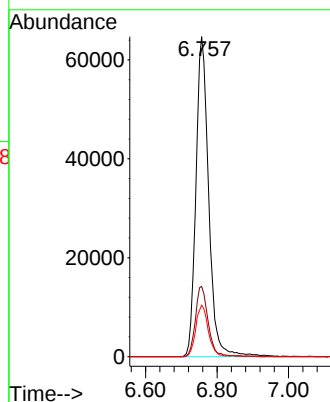
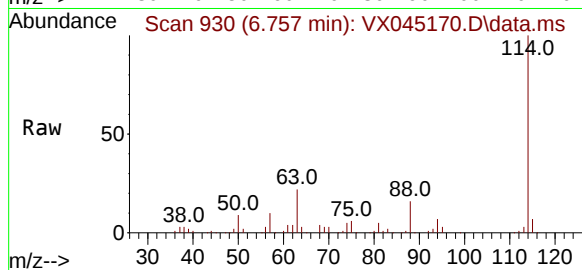
Tgt Ion:114 Resp: 160534

Ion Ratio Lower Upper

114 100

63 22.0 0.0 41.8

88 16.1 0.0 32.8



#35

Dibromofluoromethane

Concen: 51.822 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

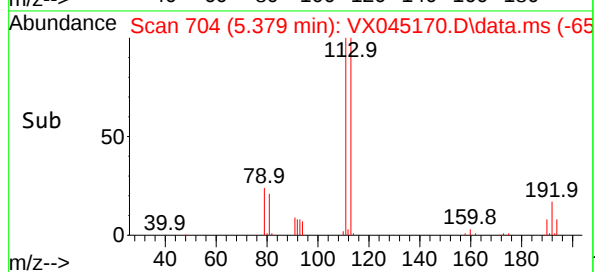
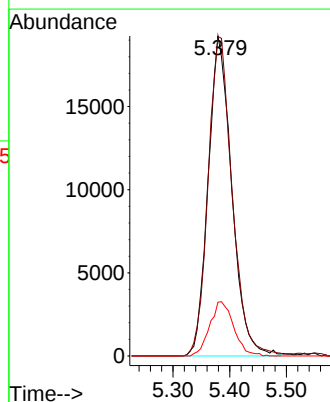
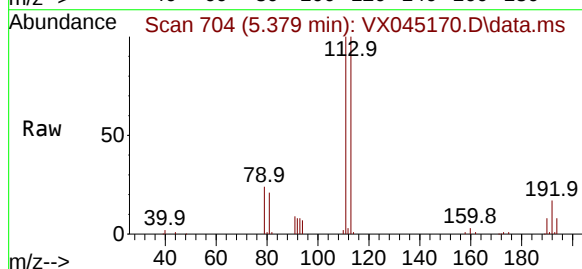
Tgt Ion:113 Resp: 55628

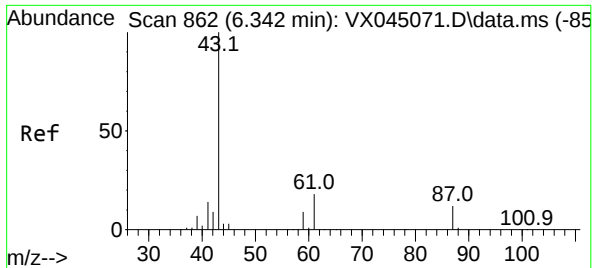
Ion Ratio Lower Upper

113 100

111 101.4 81.8 122.6

192 17.3 14.3 21.5





#43

Isopropyl Acetate

Concen: 18.063 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.000 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB01

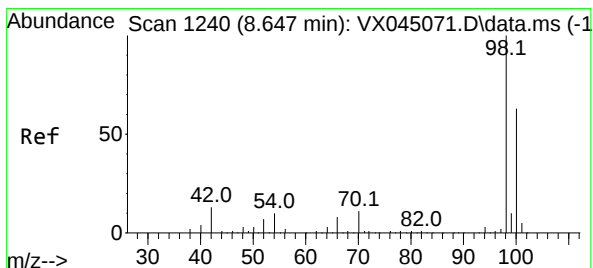
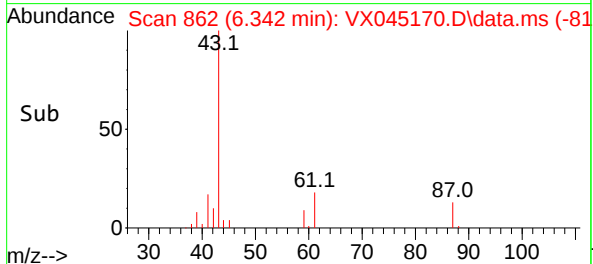
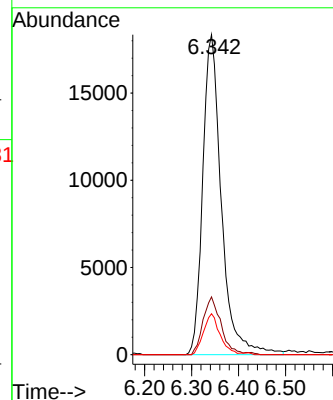
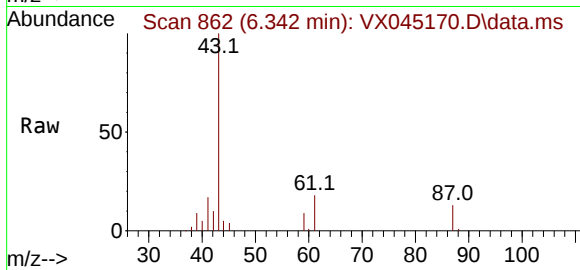
Tgt Ion: 43 Resp: 50668

Ion Ratio Lower Upper

43 100

61 17.6 14.9 22.3

87 11.3 9.4 14.2



#50

Toluene-d8

Concen: 51.761 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX045170.D

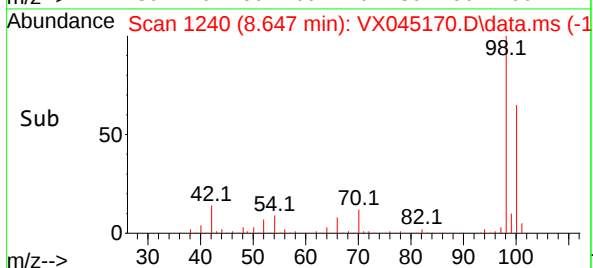
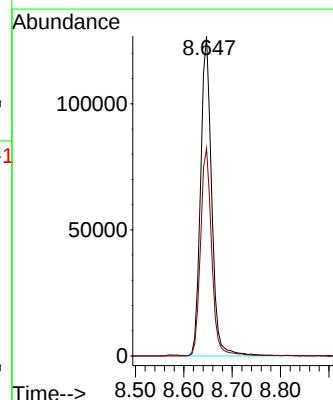
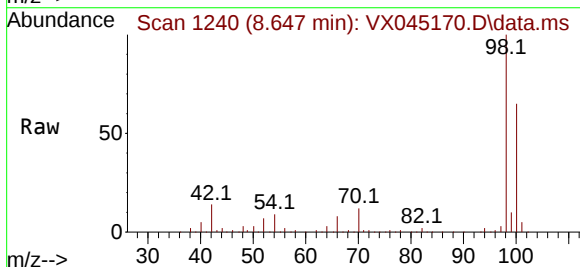
Acq: 06 Mar 2025 15:52

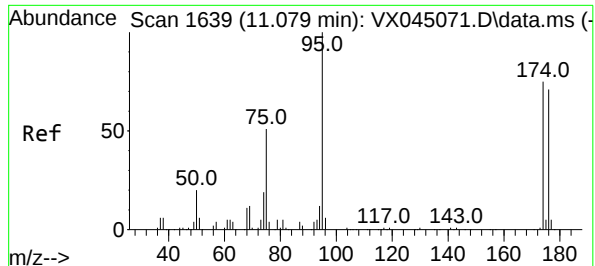
Tgt Ion: 98 Resp: 201436

Ion Ratio Lower Upper

98 100

100 65.2 52.0 78.0





#62

4-Bromofluorobenzene

Concen: 52.029 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB01

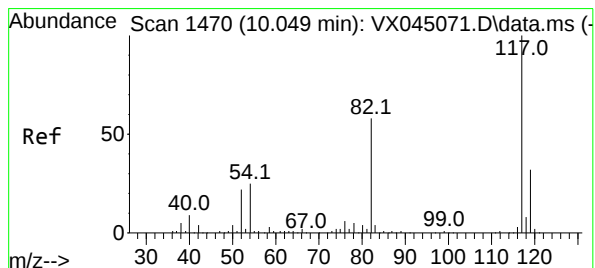
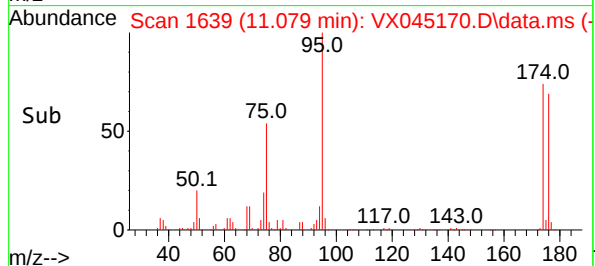
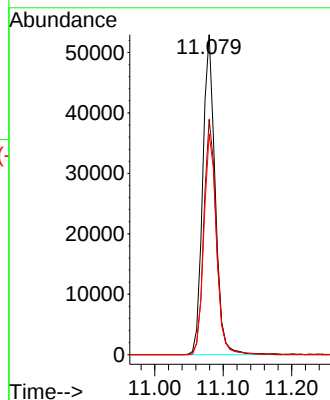
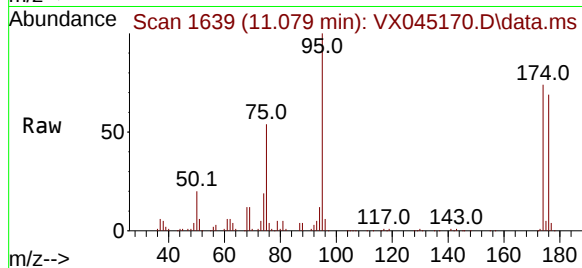
Tgt Ion: 95 Resp: 67095

Ion Ratio Lower Upper

95 100

174 73.7 0.0 148.2

176 70.0 0.0 141.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045170.D

Acq: 06 Mar 2025 15:52

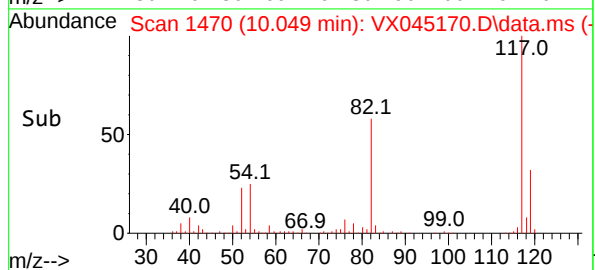
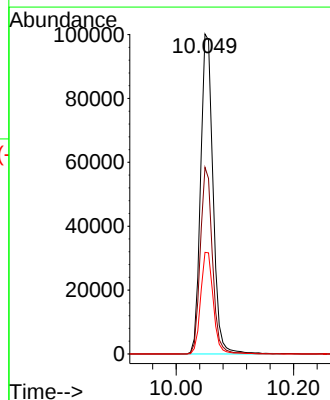
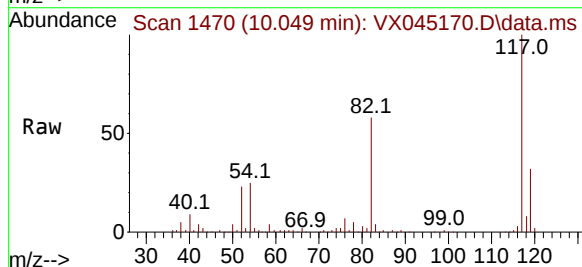
Tgt Ion: 117 Resp: 146470

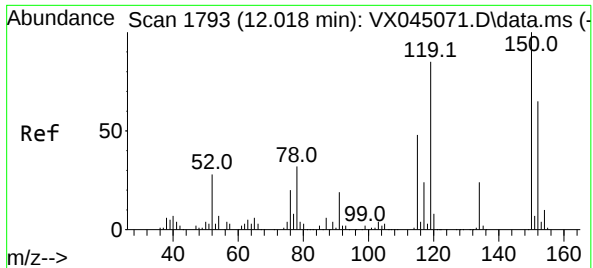
Ion Ratio Lower Upper

117 100

82 58.3 46.3 69.5

119 31.8 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045170.D

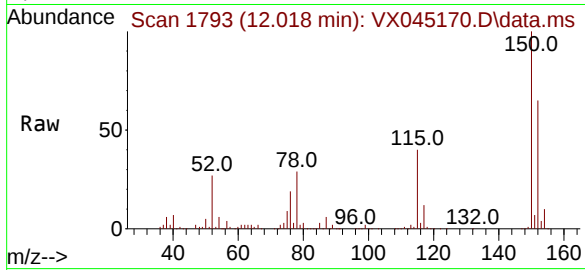
Acq: 06 Mar 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB01



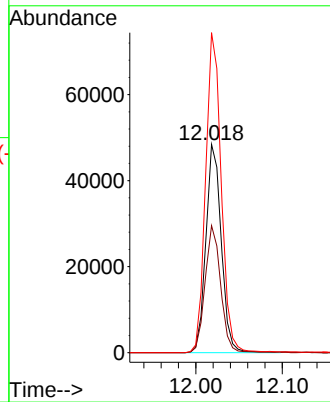
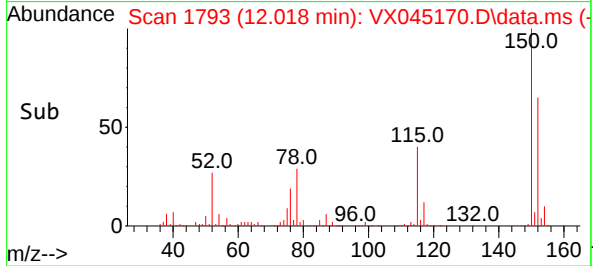
Tgt Ion:152 Resp: 59867

Ion Ratio Lower Upper

152 100

115 61.7 44.2 132.6

150 156.2 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045171.D
 Acq On : 06 Mar 2025 16:16
 Operator : JC/MD
 Sample : Q1488-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-101-SB02

Quant Time: Mar 07 00:46:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

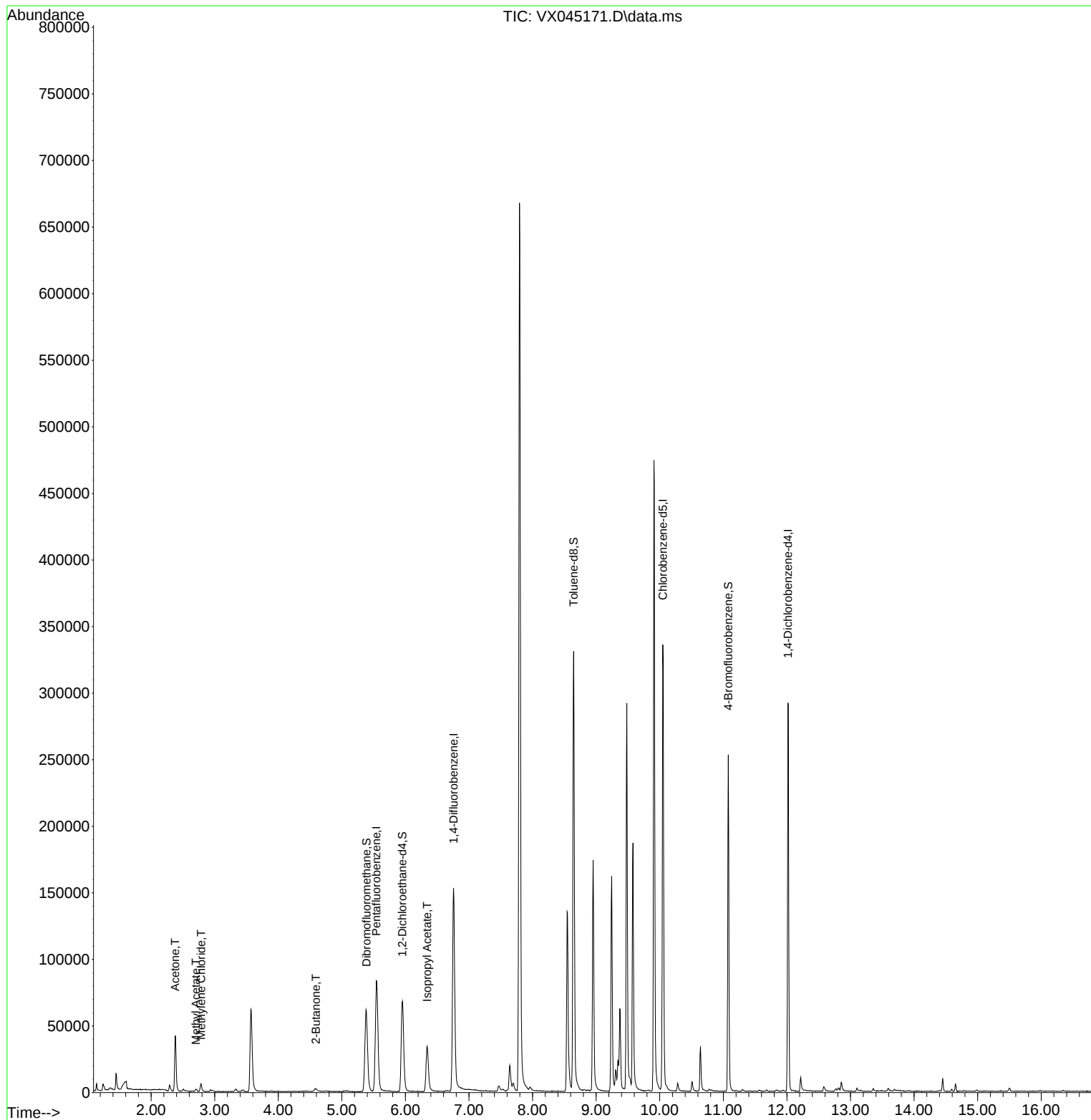
Internal Standards						
1) Pentafluorobenzene	5.544	168	76620	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	153454	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	144581	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55987	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66538	54.595	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.200%	
35) Dibromofluoromethane	5.385	113	53501	52.140	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.280%	
50) Toluene-d8	8.647	98	197961	53.215	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 106.440%	
62) 4-Bromofluorobenzene	11.079	95	64881	52.633	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 105.260%	
Target Compounds						
					Qvalue	
16) Acetone	2.380	43	44531	78.751	ug/l	97
18) Methyl Acetate	2.703	43	2504	1.841	ug/l	99
20) Methylene Chloride	2.788	84	2398	2.141	ug/l	90
25) 2-Butanone	4.593	43	5173	6.078	ug/l #	88
43) Isopropyl Acetate	6.342	43	49863	18.597	ug/l	99

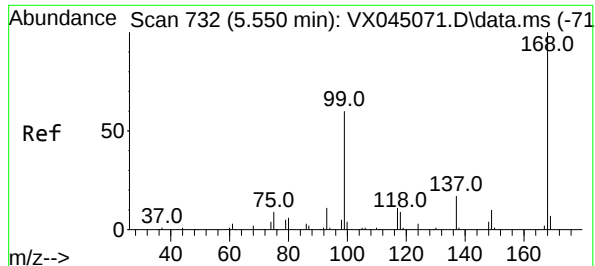
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045171.D
Acq On : 06 Mar 2025 16:16
Operator : JC/MD
Sample : Q1488-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 07 00:46:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

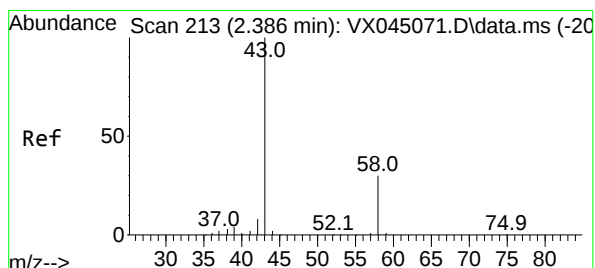
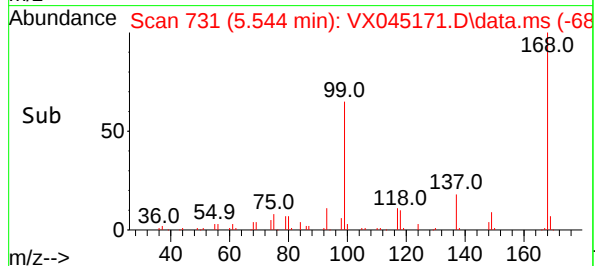
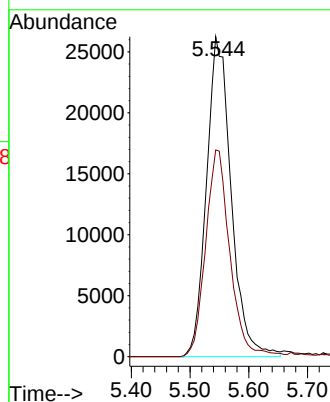
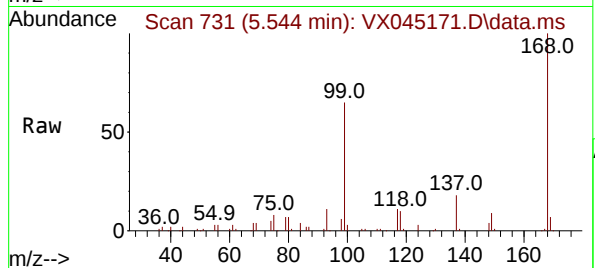




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

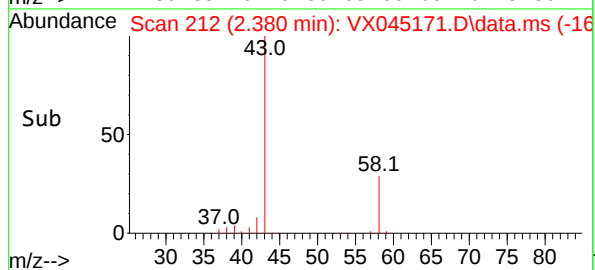
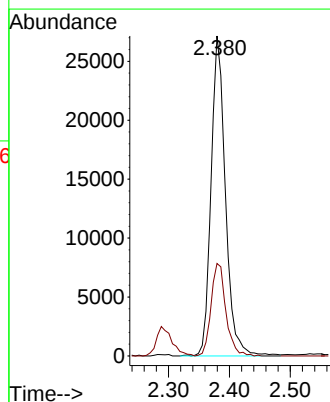
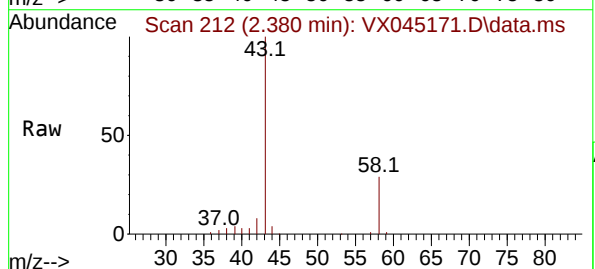
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

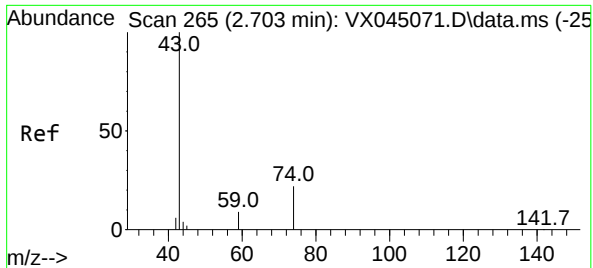
Tgt Ion:168 Resp: 76620
Ion Ratio Lower Upper
168 100
99 64.6 48.2 72.4



#16
Acetone
Concen: 78.751 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 43 Resp: 44531
Ion Ratio Lower Upper
43 100
58 28.9 24.2 36.4





#18

Methyl Acetate

Concen: 1.841 ug/l

RT: 2.703 min Scan# 2

Delta R.T. 0.000 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

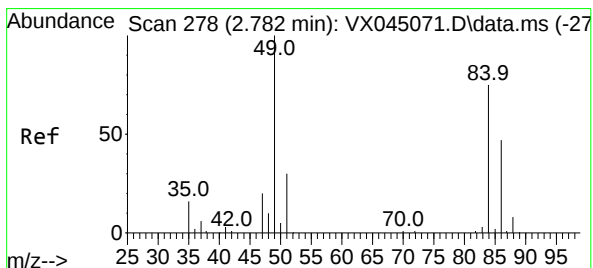
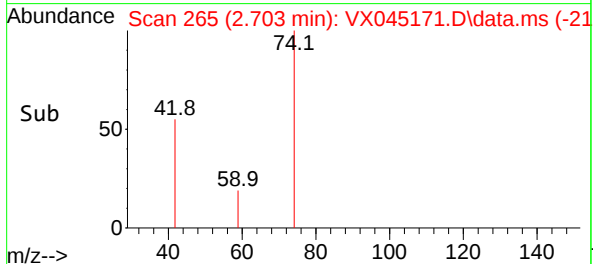
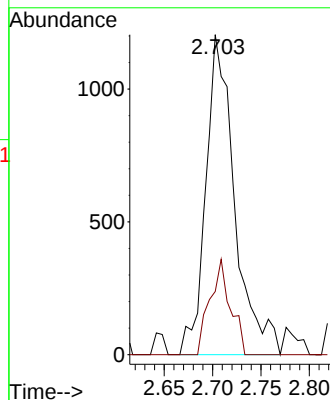
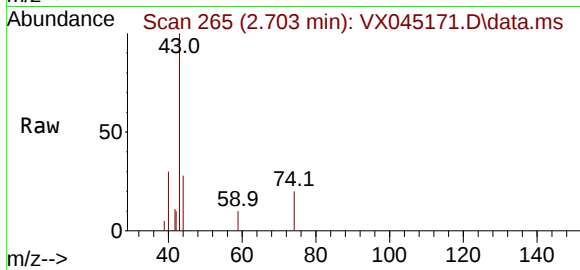
ENV-101-SB02

Tgt Ion: 43 Resp: 2504

Ion Ratio Lower Upper

43 100

74 21.2 17.4 26.2



#20

Methylene Chloride

Concen: 2.141 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Tgt Ion: 84 Resp: 2398

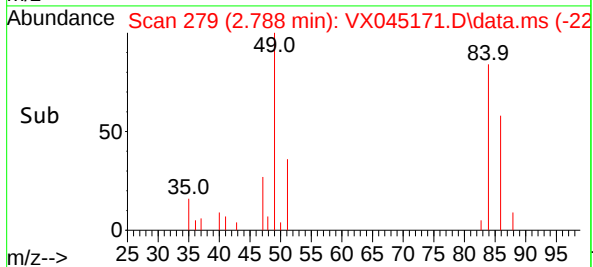
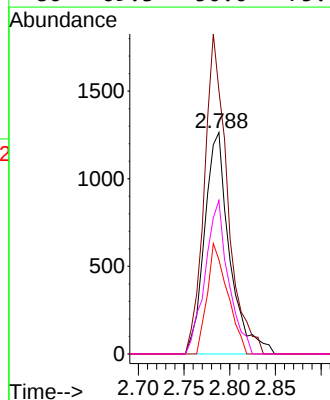
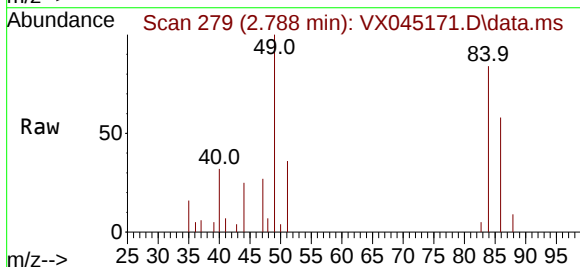
Ion Ratio Lower Upper

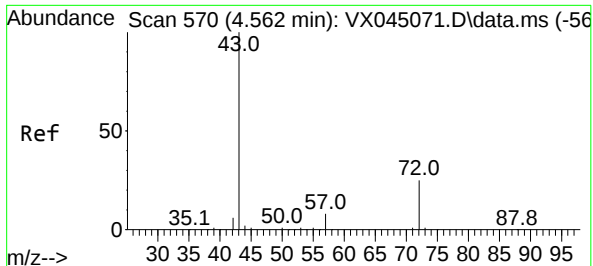
84 100

49 118.9 106.5 159.7

51 42.6 32.1 48.1

86 69.3 50.0 75.0





#25

2-Butanone

Concen: 6.078 ug/l

RT: 4.593 min Scan# 51

Delta R.T. 0.030 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

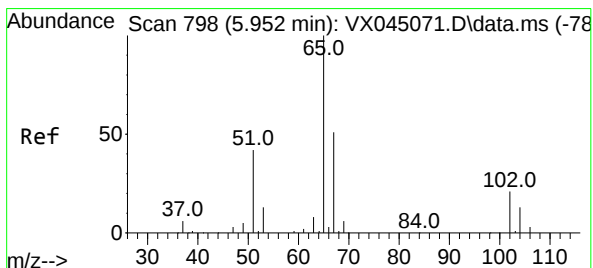
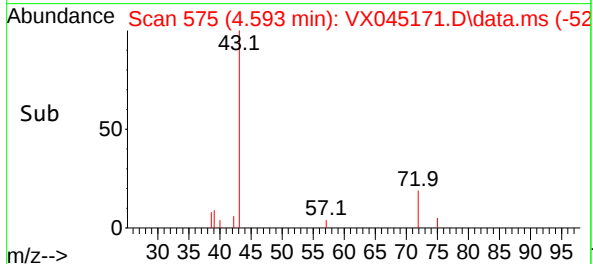
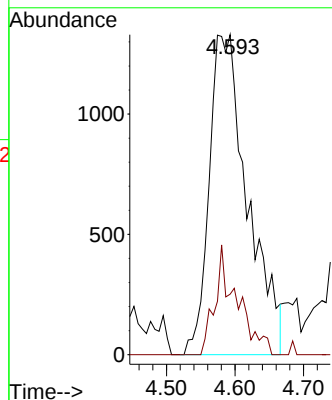
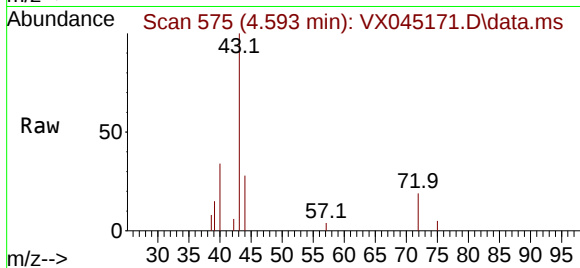
ENV-101-SB02

Tgt Ion: 43 Resp: 5173

Ion Ratio Lower Upper

43 100

72 18.9 20.0 30.0#



#33

1,2-Dichloroethane-d4

Concen: 54.595 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045171.D

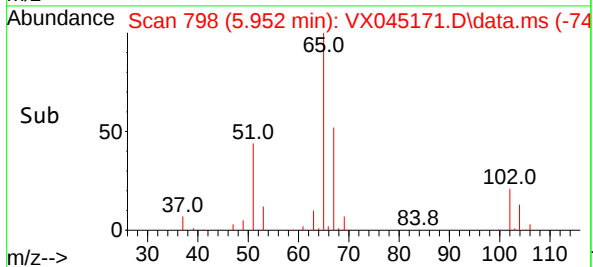
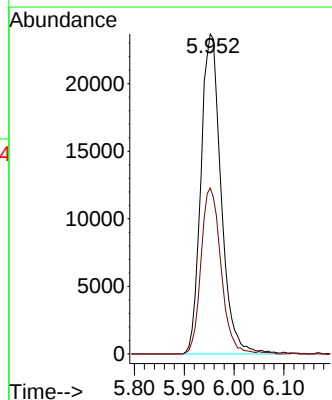
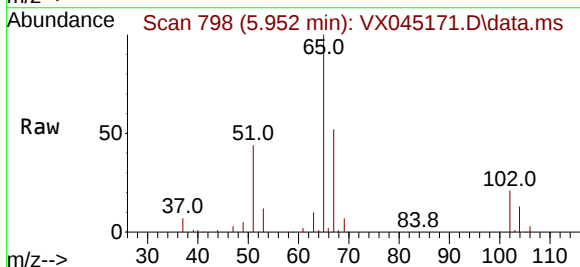
Acq: 06 Mar 2025 16:16

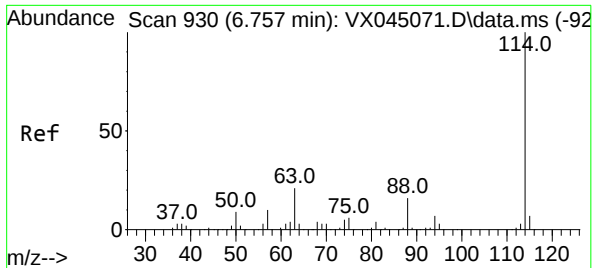
Tgt Ion: 65 Resp: 66538

Ion Ratio Lower Upper

65 100

67 51.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB02

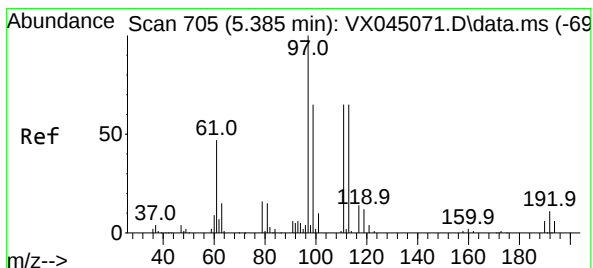
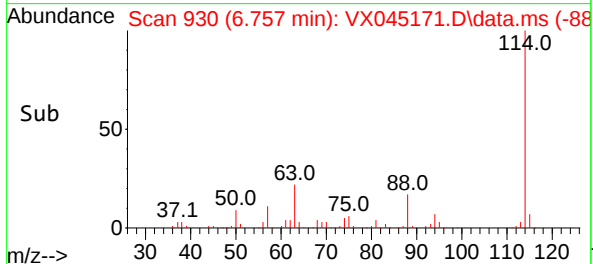
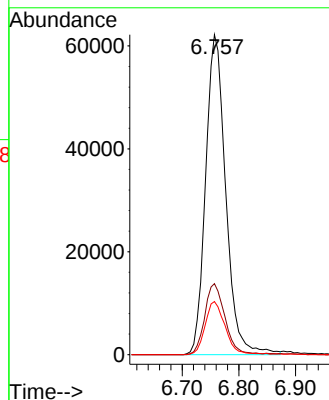
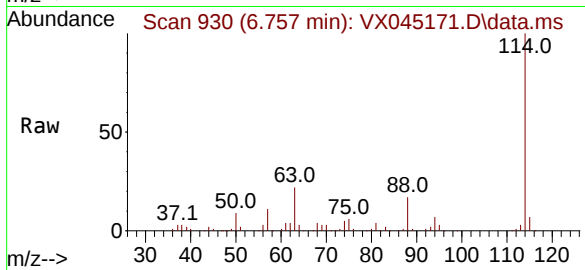
Tgt Ion:114 Resp: 153454

Ion Ratio Lower Upper

114 100

63 22.2 0.0 41.8

88 16.6 0.0 32.8



#35

Dibromofluoromethane

Concen: 52.140 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

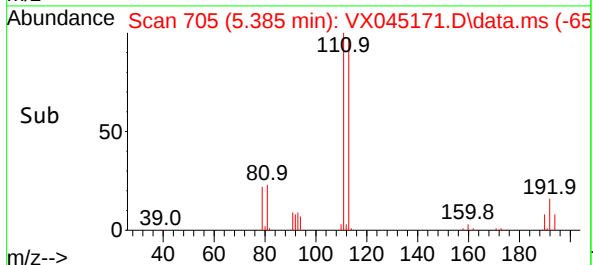
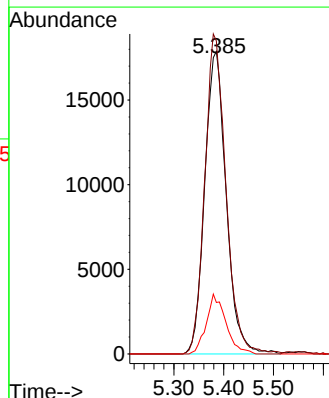
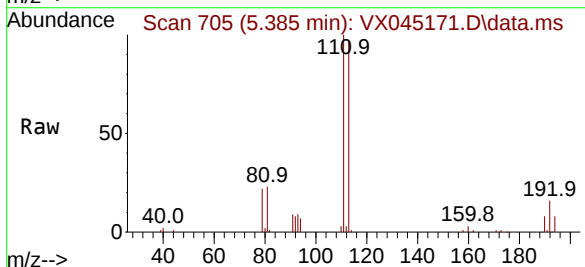
Tgt Ion:113 Resp: 53501

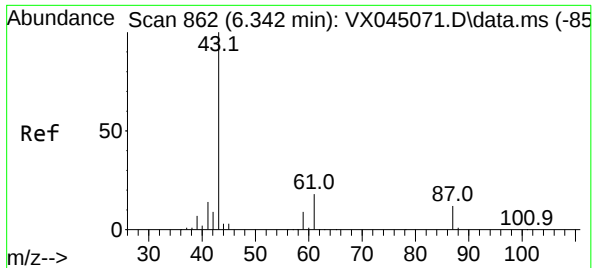
Ion Ratio Lower Upper

113 100

111 103.6 81.8 122.6

192 18.0 14.3 21.5





#43

Isopropyl Acetate

Concen: 18.597 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.000 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB02

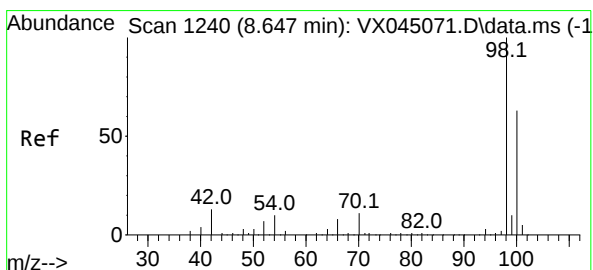
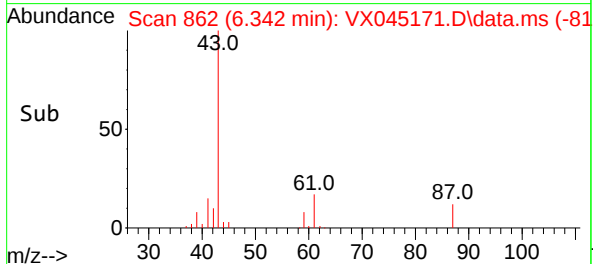
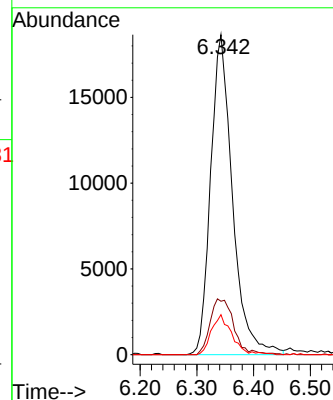
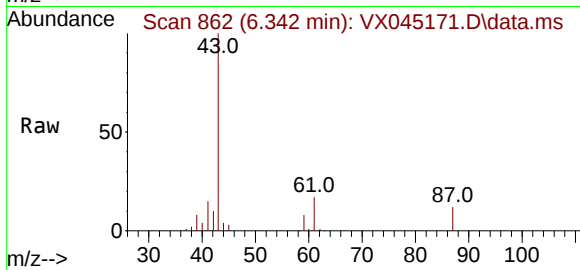
Tgt Ion: 43 Resp: 49863

Ion Ratio Lower Upper

43 100

61 18.9 14.9 22.3

87 11.8 9.4 14.2



#50

Toluene-d8

Concen: 53.215 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX045171.D

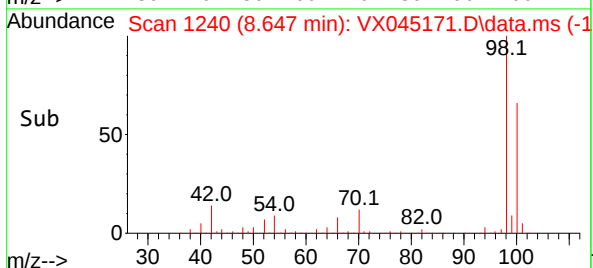
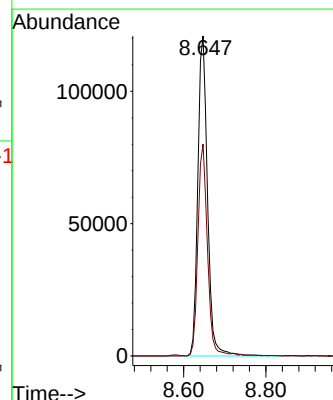
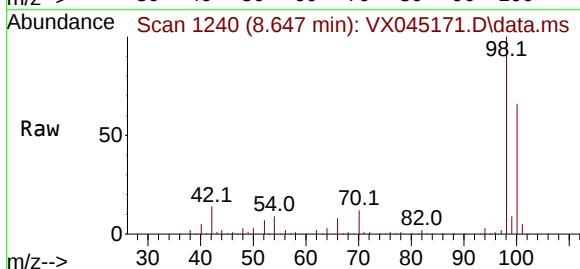
Acq: 06 Mar 2025 16:16

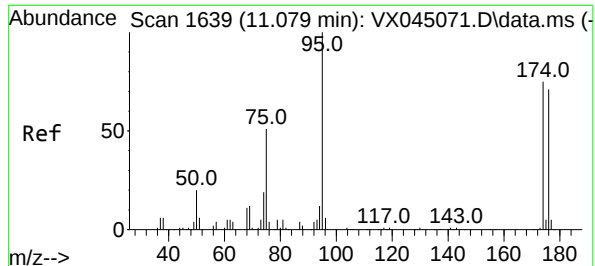
Tgt Ion: 98 Resp: 197961

Ion Ratio Lower Upper

98 100

100 65.4 52.0 78.0





#62

4-Bromofluorobenzene

Concen: 52.633 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB02

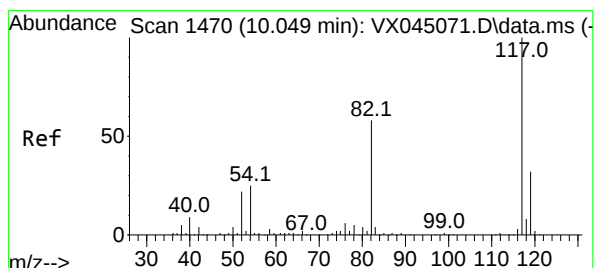
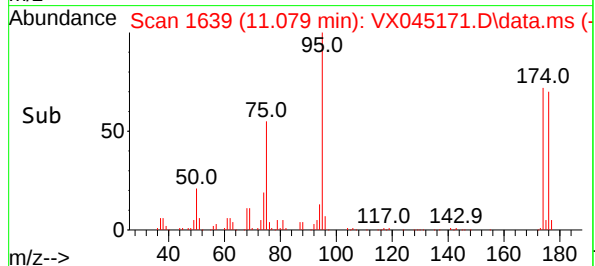
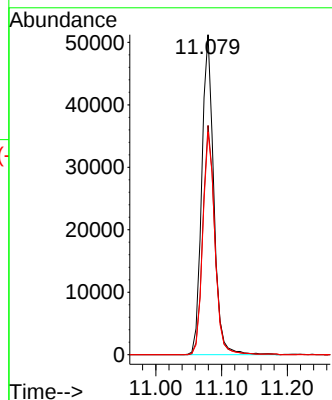
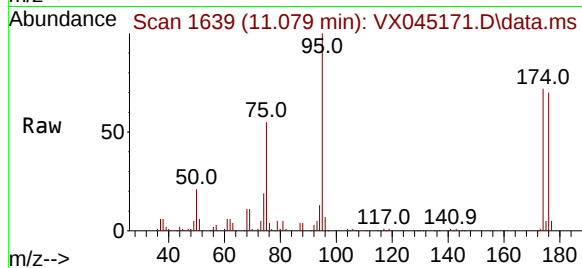
Tgt Ion: 95 Resp: 64881

Ion Ratio Lower Upper

95 100

174 71.7 0.0 148.2

176 70.0 0.0 141.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

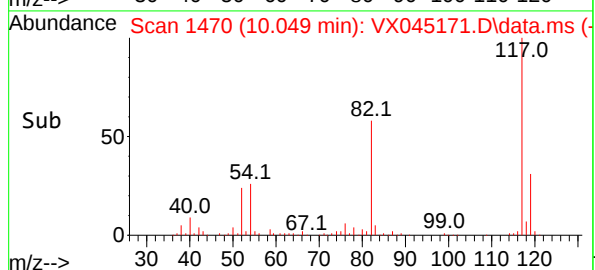
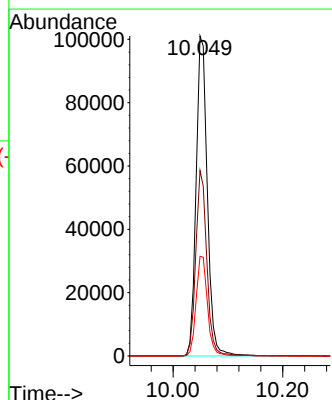
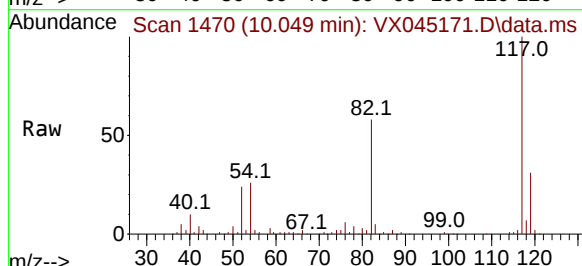
Tgt Ion: 117 Resp: 144581

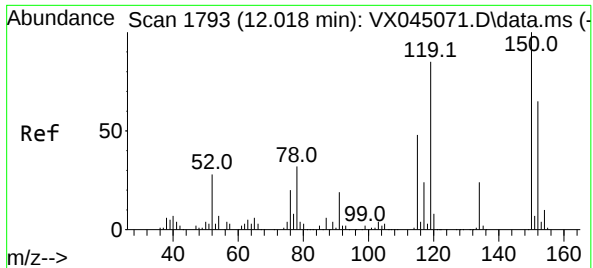
Ion Ratio Lower Upper

117 100

82 57.9 46.3 69.5

119 31.2 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045171.D

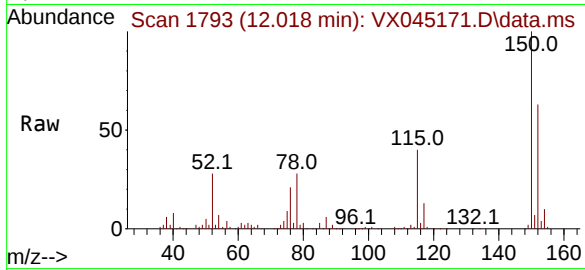
Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB02



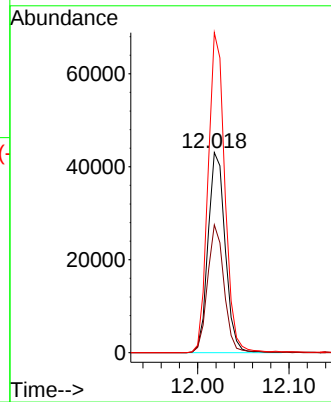
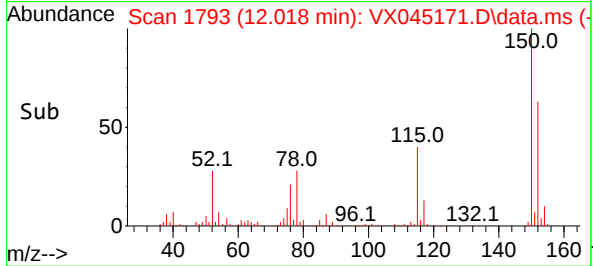
Tgt Ion:152 Resp: 55987

Ion Ratio Lower Upper

152 100

115 61.4 44.2 132.6

150 156.3 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045172.D
 Acq On : 06 Mar 2025 16:39
 Operator : JC/MD
 Sample : Q1488-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-102-SB01

Quant Time: Mar 07 00:46:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

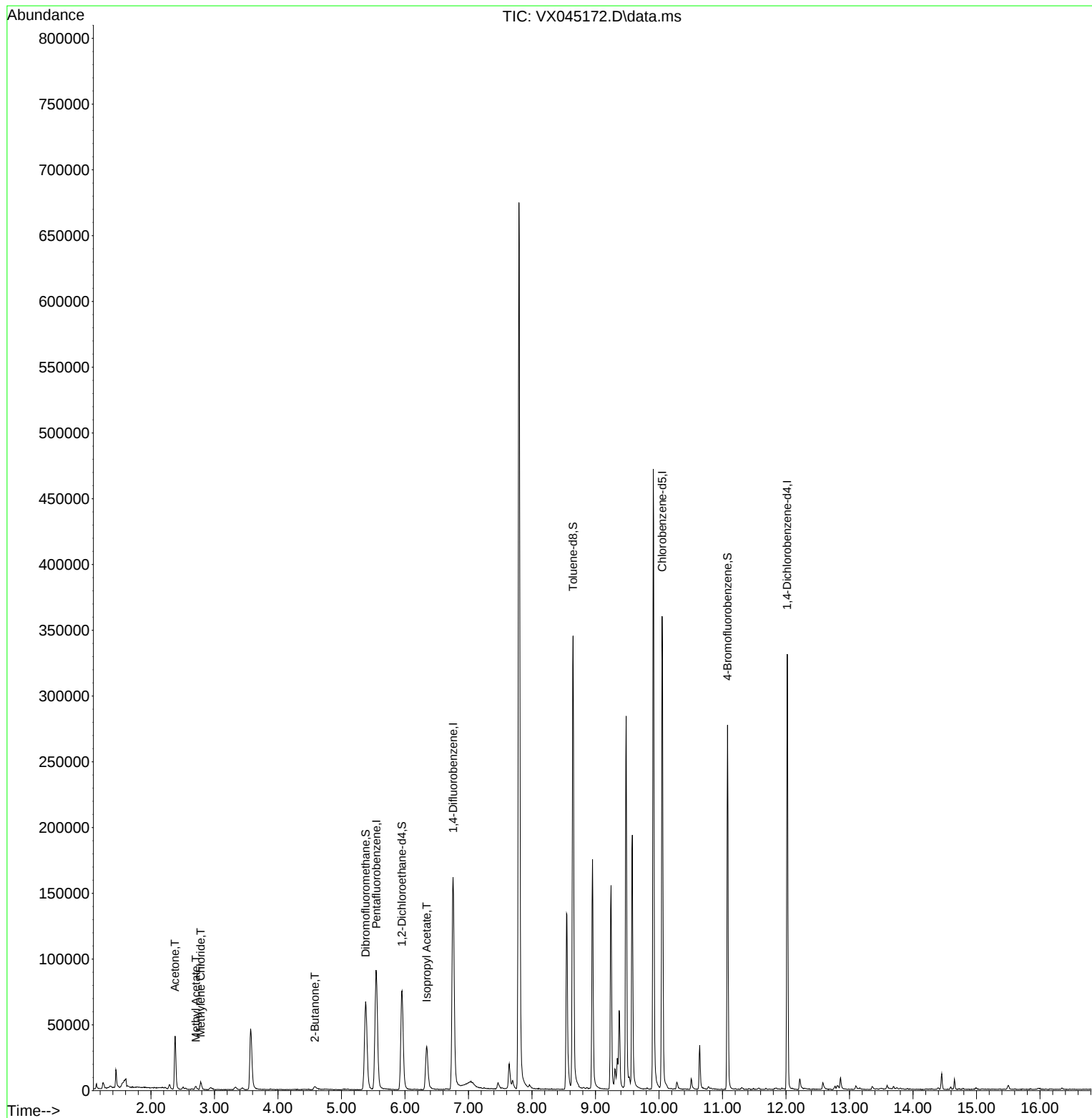
Internal Standards						
1) Pentafluorobenzene	5.550	168	84608	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	167928	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	153445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63036	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	72361	53.767	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.540%	
35) Dibromofluoromethane	5.379	113	57808	51.481	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.960%	
50) Toluene-d8	8.647	98	208160	51.134	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.260%	
62) 4-Bromofluorobenzene	11.079	95	70449	52.225	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.440%	
Target Compounds						
					Qvalue	
16) Acetone	2.380	43	43675	69.945	ug/l	99
18) Methyl Acetate	2.709	43	3472	2.311	ug/l	99
20) Methylene Chloride	2.782	84	2563	2.072	ug/l #	90
25) 2-Butanone	4.581	43	5867	6.242	ug/l	93
43) Isopropyl Acetate	6.342	43	49551	16.887	ug/l	98

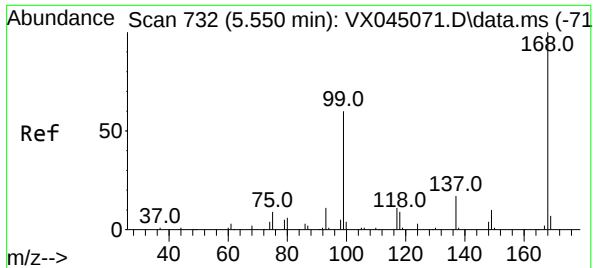
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045172.D
Acq On : 06 Mar 2025 16:39
Operator : JC/MD
Sample : Q1488-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 07 00:46:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

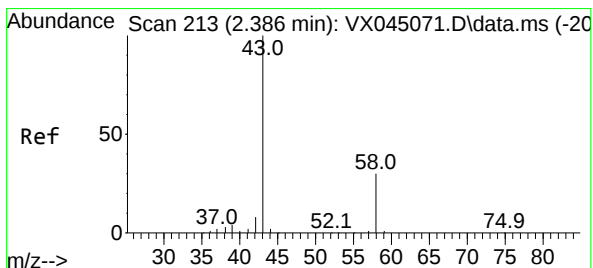
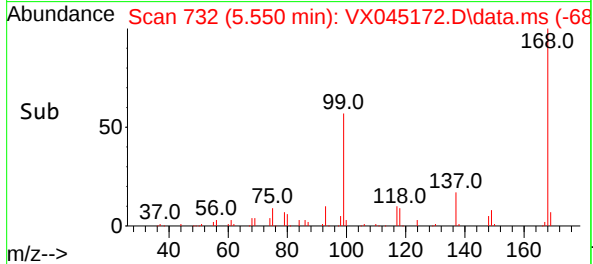
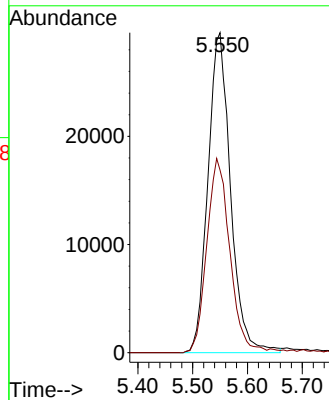
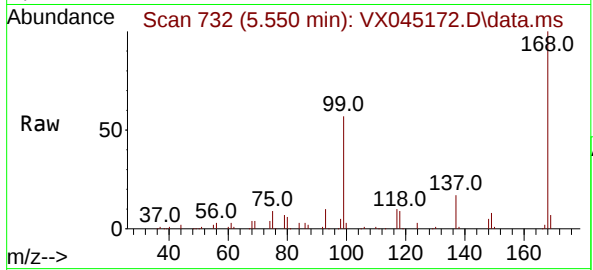




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

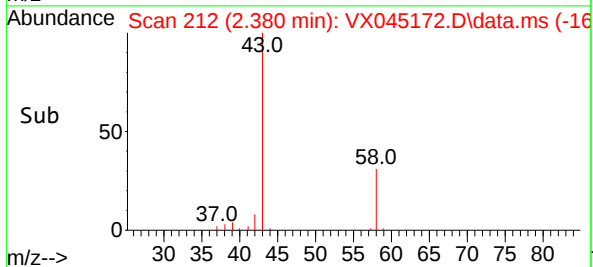
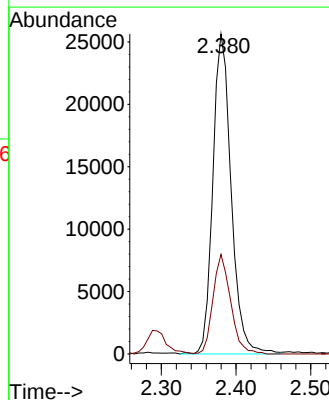
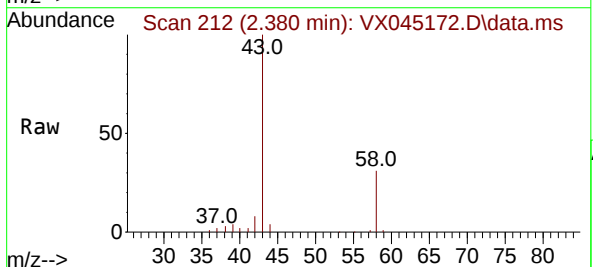
Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

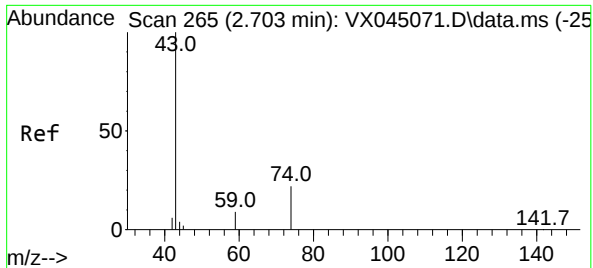
Tgt Ion:168 Resp: 84608
Ion Ratio Lower Upper
168 100
99 57.0 48.2 72.4



#16
Acetone
Concen: 69.945 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion: 43 Resp: 43675
Ion Ratio Lower Upper
43 100
58 31.1 24.2 36.4





#18

Methyl Acetate

Concen: 2.311 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX045172.D

Acq: 06 Mar 2025 16:39

Instrument :

MSVOA_X

ClientSampleId :

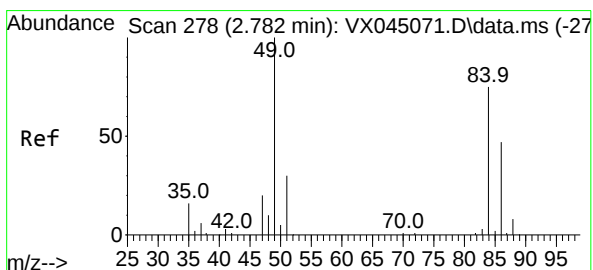
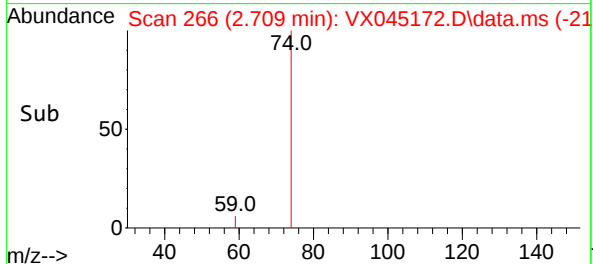
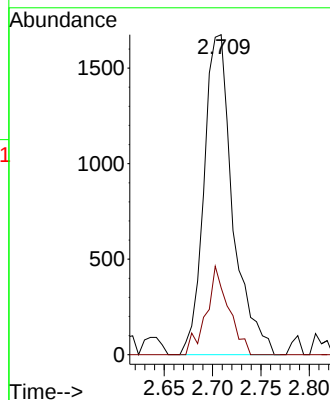
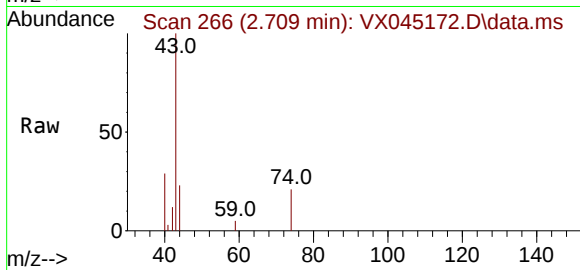
ENV-102-SB01

Tgt Ion: 43 Resp: 3472

Ion Ratio Lower Upper

43 100

74 21.5 17.4 26.2



#20

Methylene Chloride

Concen: 2.072 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045172.D

Acq: 06 Mar 2025 16:39

Tgt Ion: 84 Resp: 2563

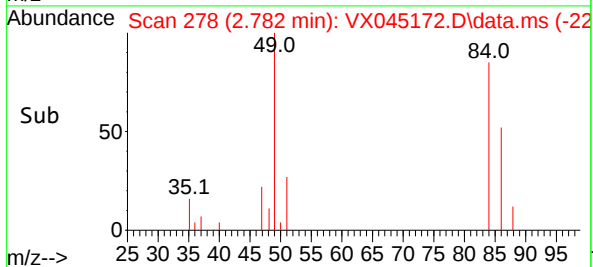
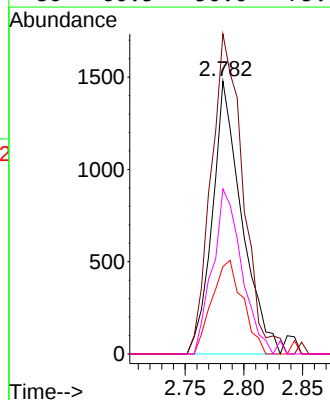
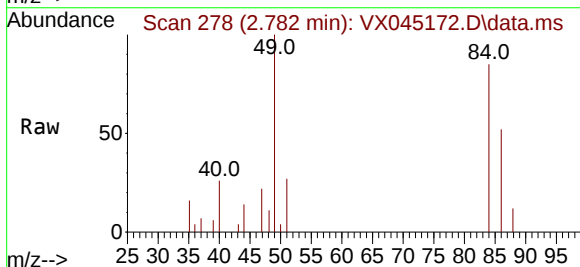
Ion Ratio Lower Upper

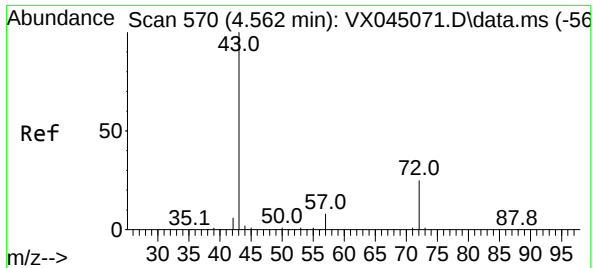
84 100

49 117.3 106.5 159.7

51 32.0 32.1 48.1#

86 60.5 50.0 75.0





#25

2-Butanone

Concen: 6.242 ug/l

RT: 4.581 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX045172.D

Acq: 06 Mar 2025 16:39

Instrument :

MSVOA_X

ClientSampleId :

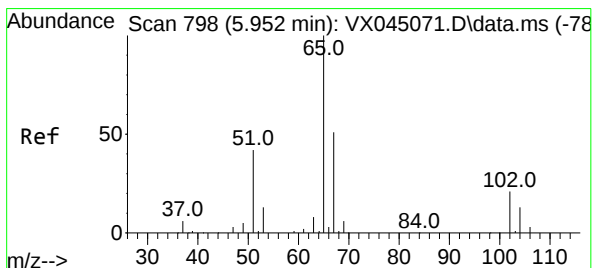
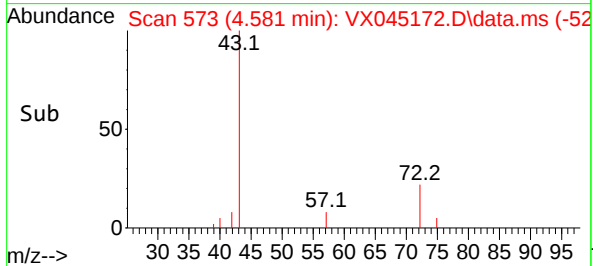
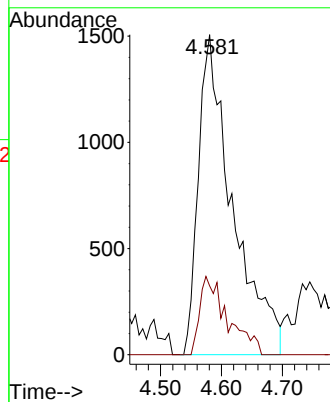
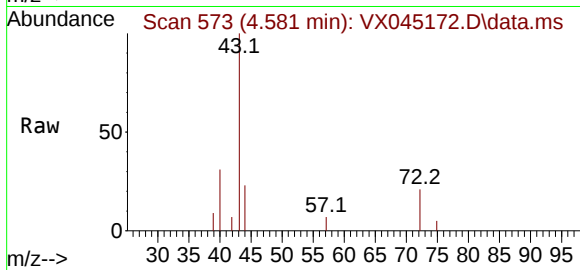
ENV-102-SB01

Tgt Ion: 43 Resp: 5867

Ion Ratio Lower Upper

43 100

72 21.5 20.0 30.0



#33

1,2-Dichloroethane-d4

Concen: 53.767 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045172.D

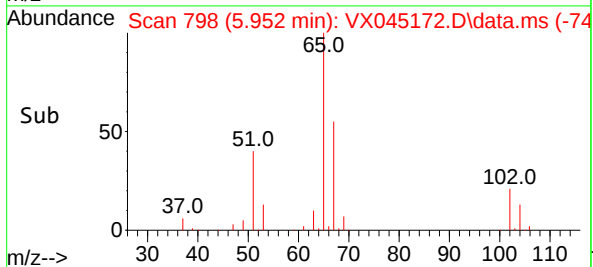
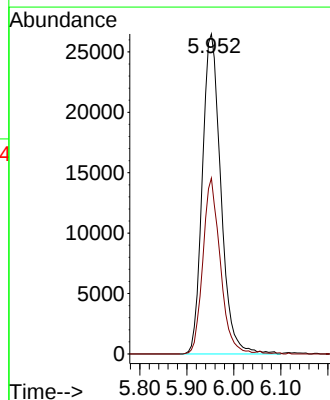
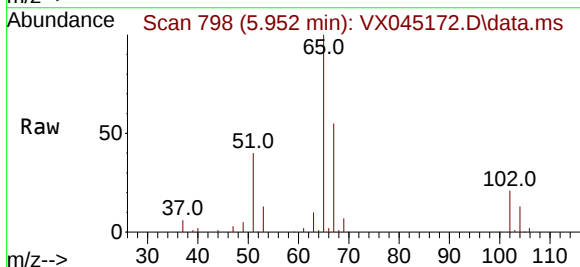
Acq: 06 Mar 2025 16:39

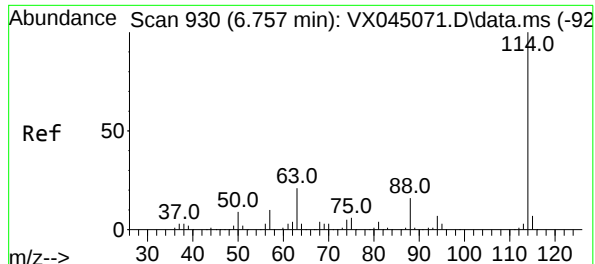
Tgt Ion: 65 Resp: 72361

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045172.D

Acq: 06 Mar 2025 16:39

Instrument :

MSVOA_X

ClientSampleId :

ENV-102-SB01

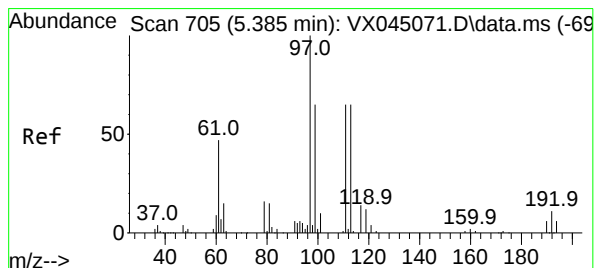
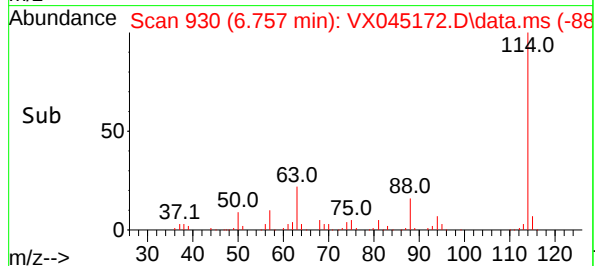
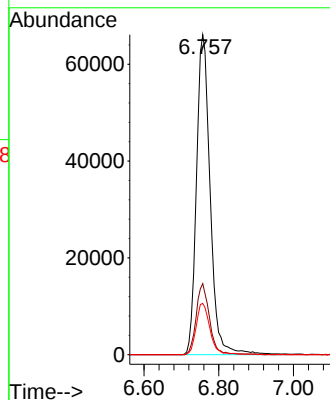
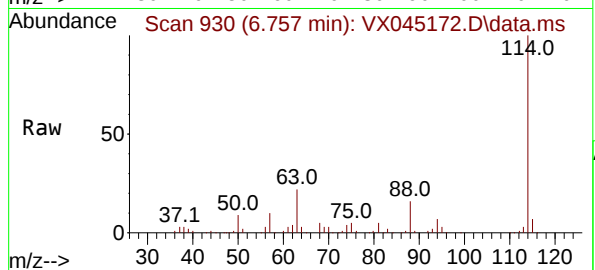
Tgt Ion:114 Resp: 167928

Ion Ratio Lower Upper

114 100

63 22.2 0.0 41.8

88 16.0 0.0 32.8



#35

Dibromofluoromethane

Concen: 51.481 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX045172.D

Acq: 06 Mar 2025 16:39

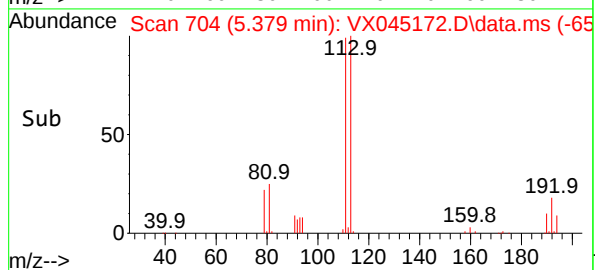
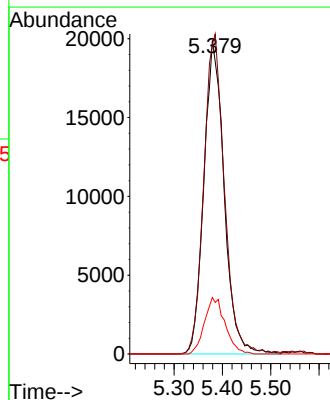
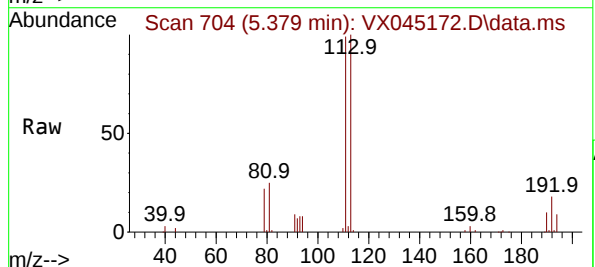
Tgt Ion:113 Resp: 57808

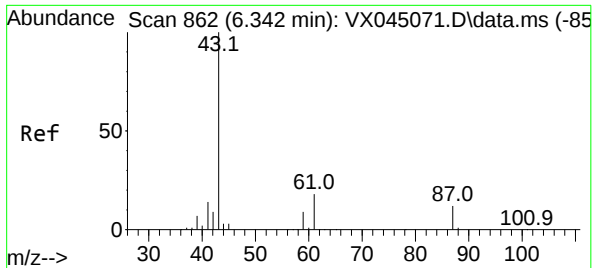
Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.6

192 18.3 14.3 21.5

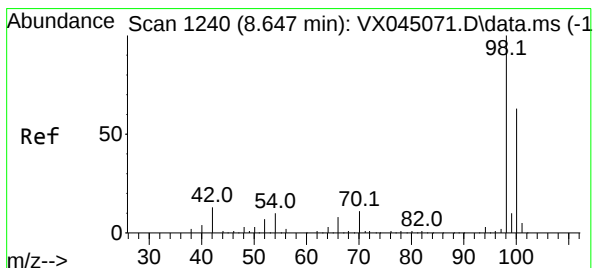
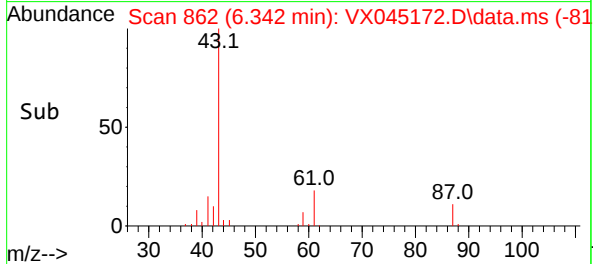
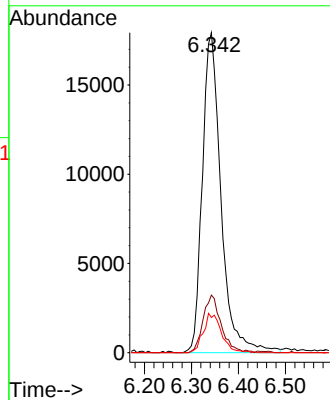
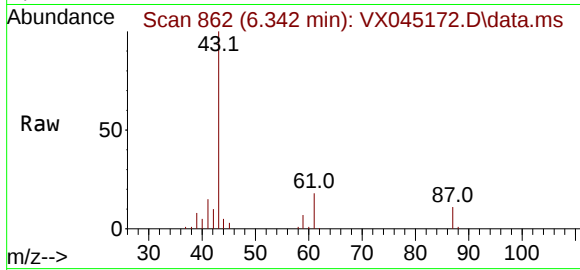




#43
Isopropyl Acetate
Concen: 16.887 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

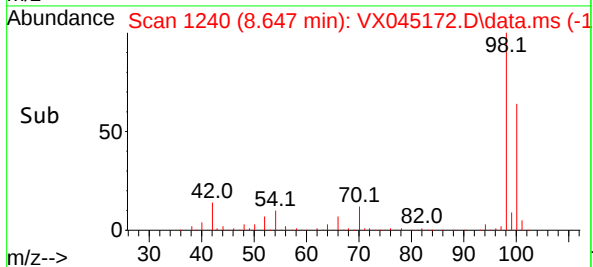
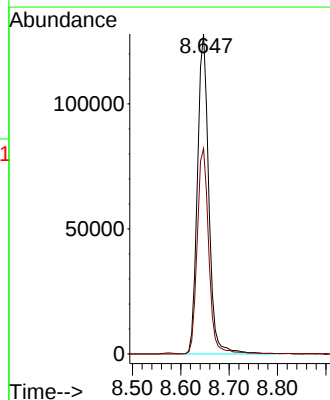
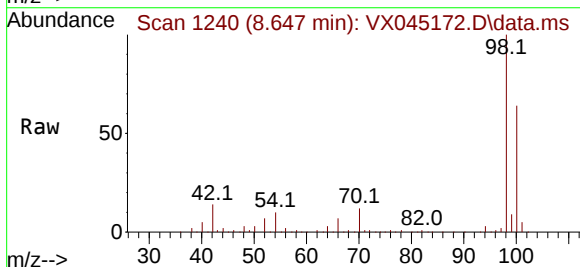
Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

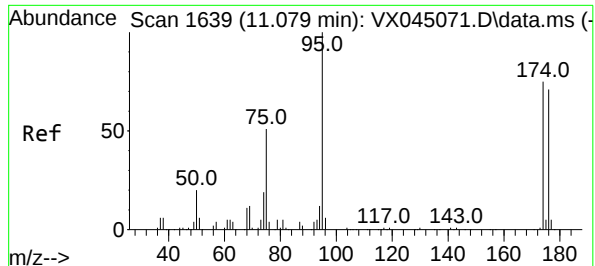
Tgt Ion:	43	Resp:	49551
Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.9	22.3
87	11.9	9.4	14.2



#50
Toluene-d8
Concen: 51.134 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion:	98	Resp:	208160
Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.0	78.0

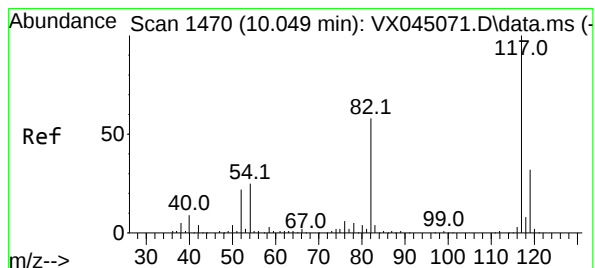
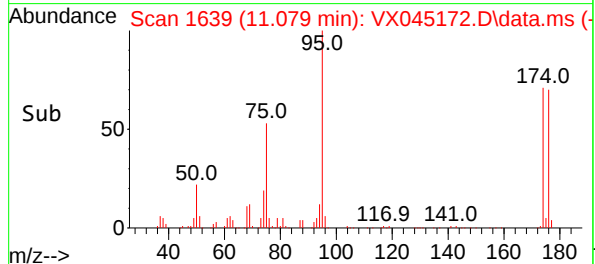
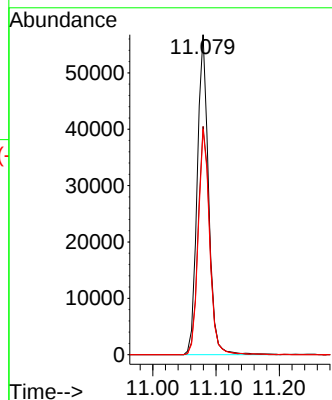
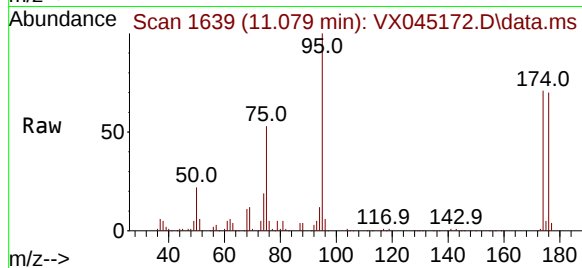




#62
4-Bromofluorobenzene
Concen: 52.225 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

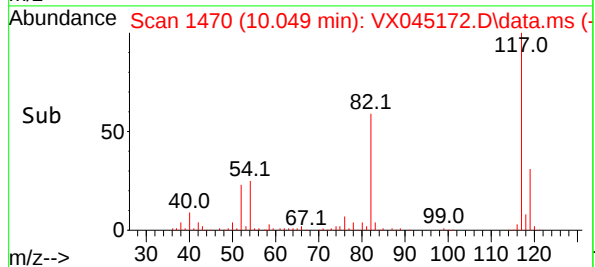
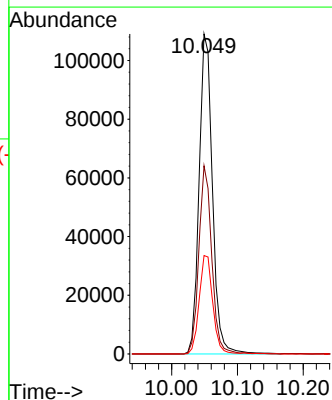
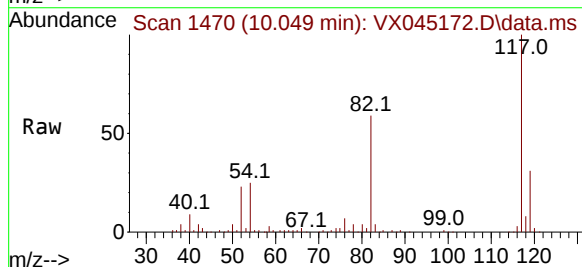
Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB01

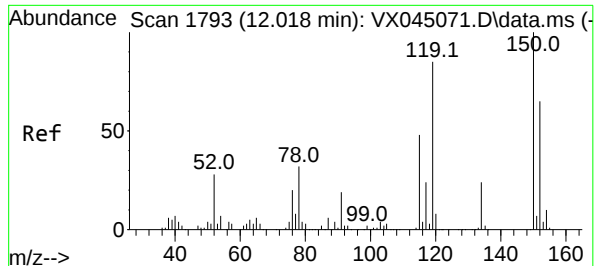
Tgt Ion: 95 Resp: 70449
Ion Ratio Lower Upper
95 100
174 73.7 0.0 148.2
176 70.5 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045172.D
Acq: 06 Mar 2025 16:39

Tgt Ion: 117 Resp: 153445
Ion Ratio Lower Upper
117 100
82 58.8 46.3 69.5
119 30.7 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045172.D

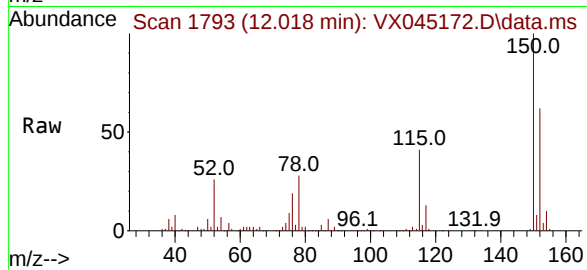
Acq: 06 Mar 2025 16:39

Instrument :

MSVOA_X

ClientSampleId :

ENV-102-SB01



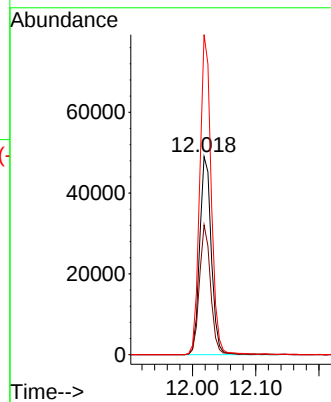
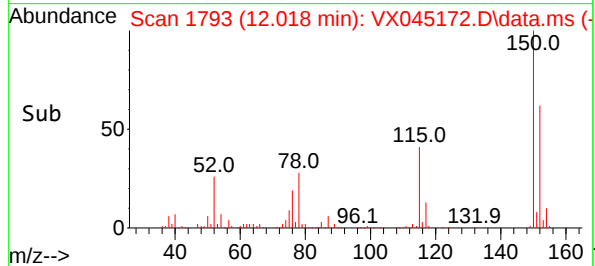
Tgt Ion:152 Resp: 63036

Ion Ratio Lower Upper

152 100

115 62.8 44.2 132.6

150 158.2 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045173.D
 Acq On : 06 Mar 2025 17:02
 Operator : JC/MD
 Sample : Q1488-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-102-SB02

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Mar 07 00:47:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

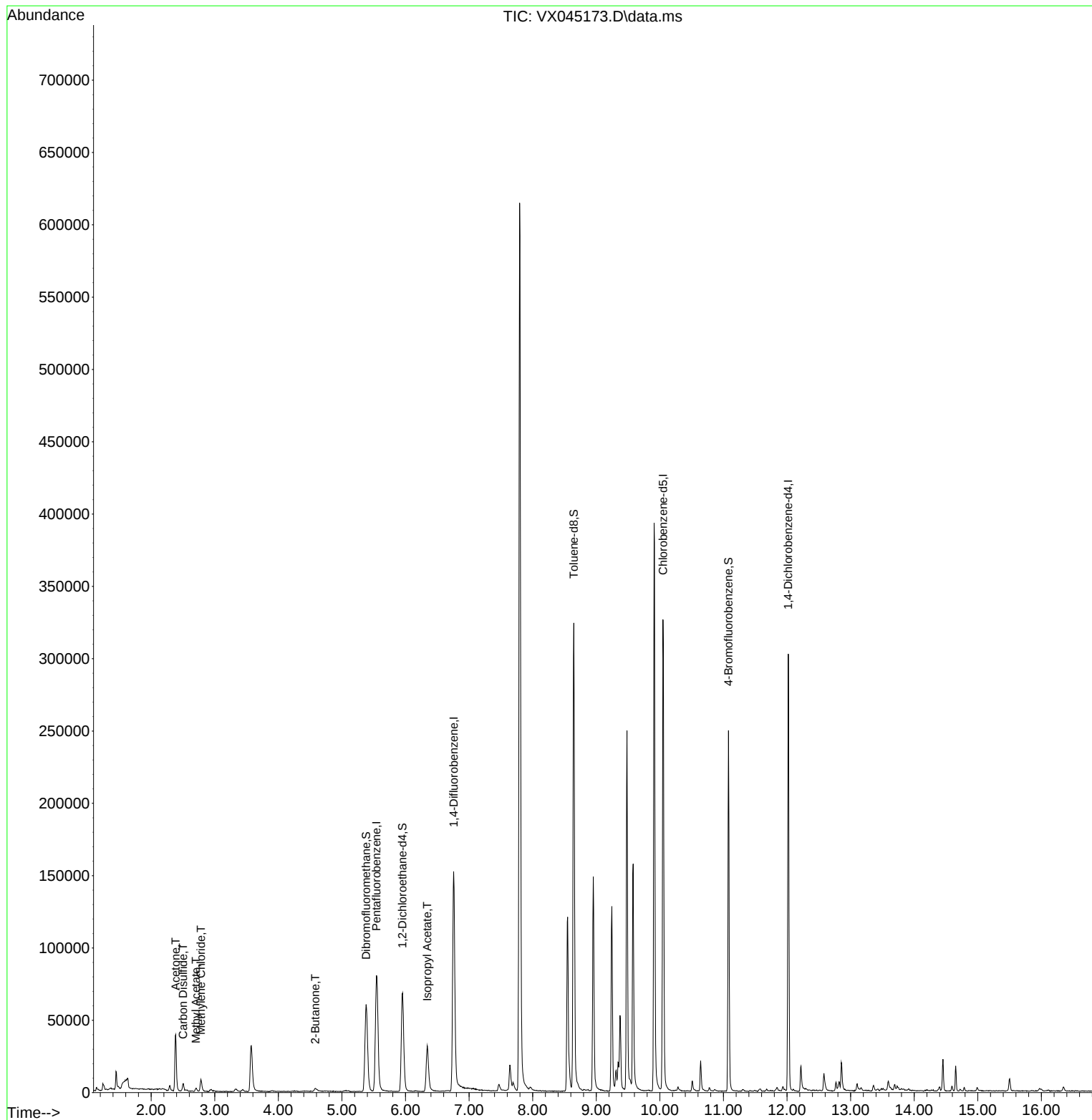
Internal Standards						
1) Pentafluorobenzene	5.544	168	76581	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	156077	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	139915	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57260	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65182	53.510	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 107.020%		
35) Dibromofluoromethane	5.379	113	53310	51.081	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 102.160%		
50) Toluene-d8	8.647	98	192112	50.775	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 101.560%		
62) 4-Bromofluorobenzene	11.079	95	63691	50.800	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 101.600%		
Target Compounds						
						Qvalue
16) Acetone	2.386	43	43224	76.479	ug/l	98
17) Carbon Disulfide	2.502	76	7102	2.834	ug/l	96
18) Methyl Acetate	2.703	43	2846	2.093	ug/l	93
20) Methylene Chloride	2.782	84	3846	3.435	ug/l #	89
25) 2-Butanone	4.581	43	4831	5.679	ug/l	99
43) Isopropyl Acetate	6.342	43	45924	16.840	ug/l	99

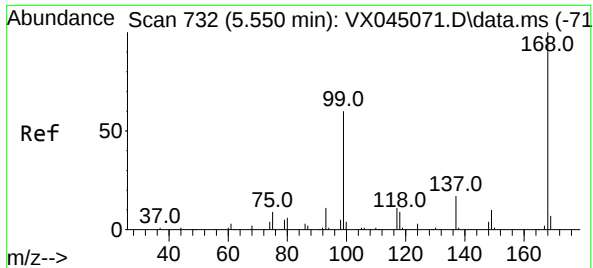
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045173.D
Acq On : 06 Mar 2025 17:02
Operator : JC/MD
Sample : Q1488-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

Quant Time: Mar 07 00:47:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

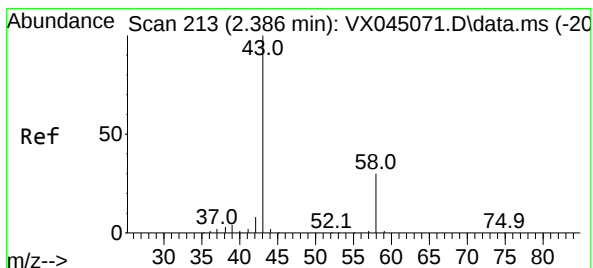
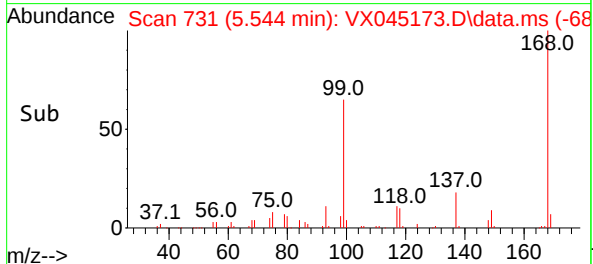
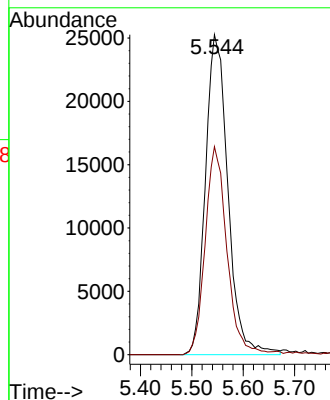
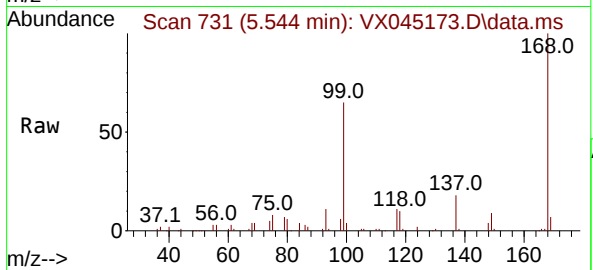




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

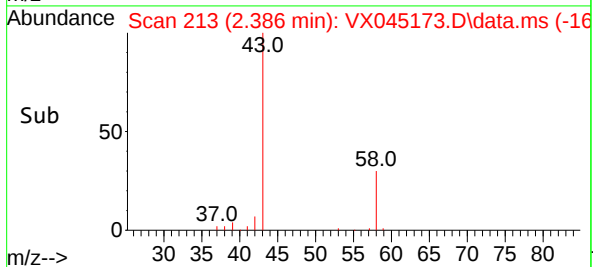
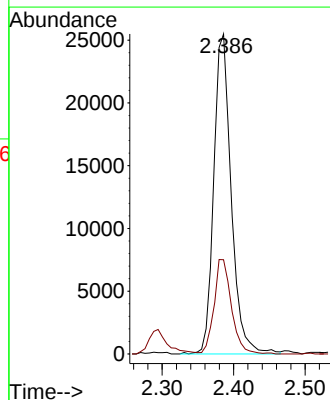
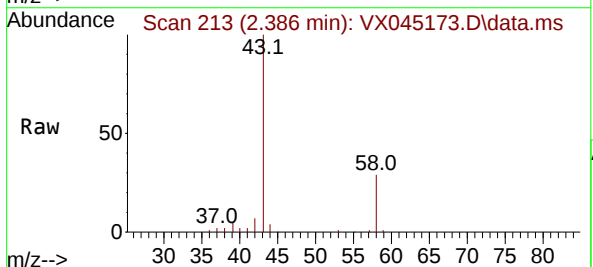
Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

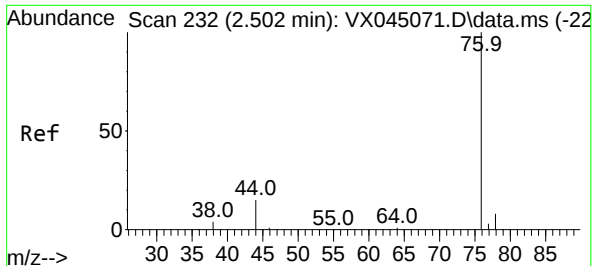
Tgt Ion:168 Resp: 76581
Ion Ratio Lower Upper
168 100
99 65.0 48.2 72.4



#16
Acetone
Concen: 76.479 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Tgt Ion: 43 Resp: 43224
Ion Ratio Lower Upper
43 100
58 29.5 24.2 36.4

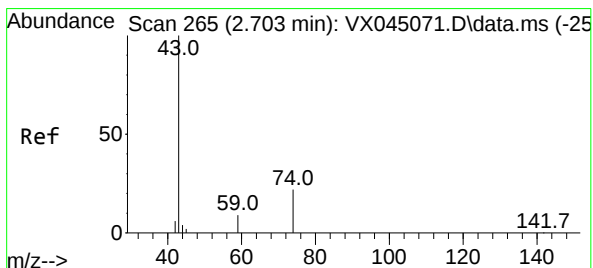
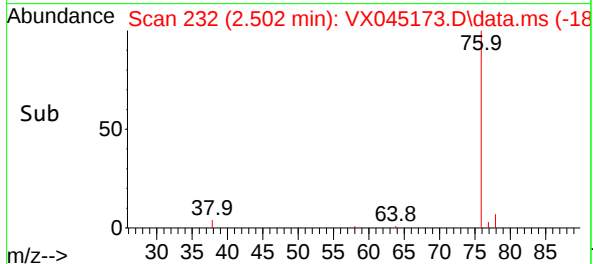
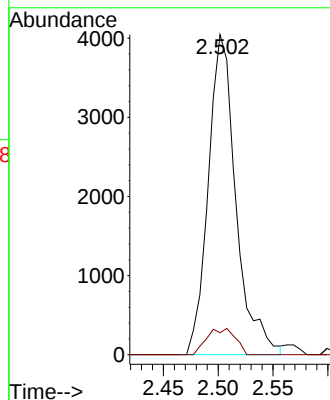
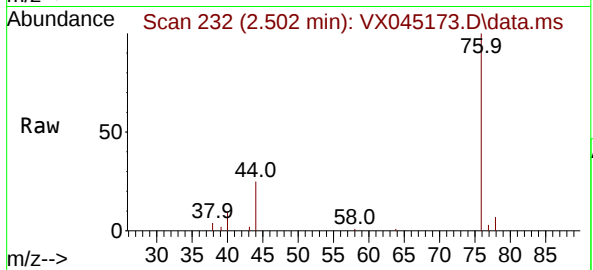




#17
Carbon Disulfide
Concen: 2.834 ug/l
RT: 2.502 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

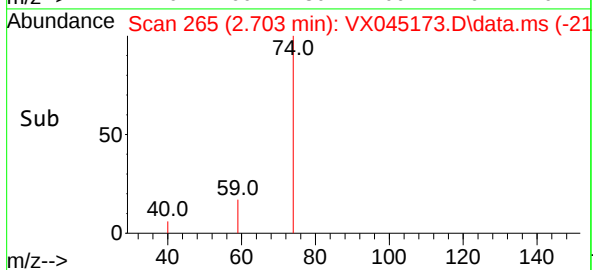
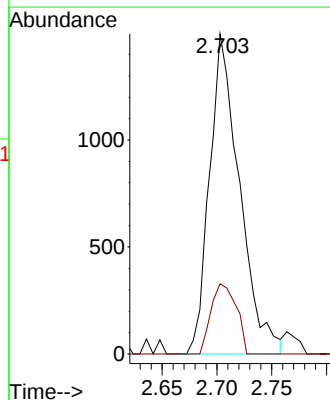
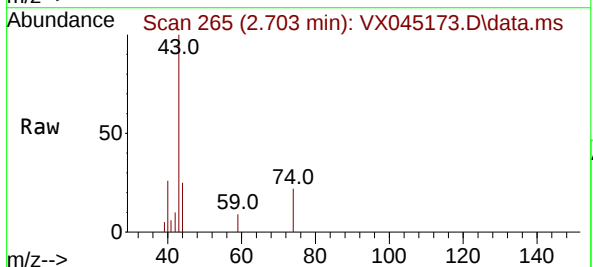
Instrument :
MSVOA_X
ClientSampleId :
ENV-102-SB02

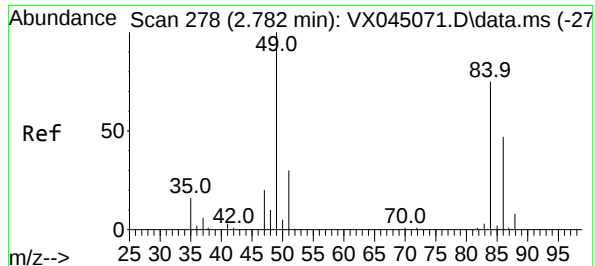
Tgt Ion	Ratio	Lower	Upper
76	100		
78	6.8	6.6	9.8



#18
Methyl Acetate
Concen: 2.093 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045173.D
Acq: 06 Mar 2025 17:02

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.4	17.4	26.2





#20

Methylene Chloride

Concen: 3.435 ug/l

RT: 2.782 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

Instrument :

MSVOA_X

ClientSampleId :

ENV-102-SB02

Tgt Ion: 84 Resp: 3846

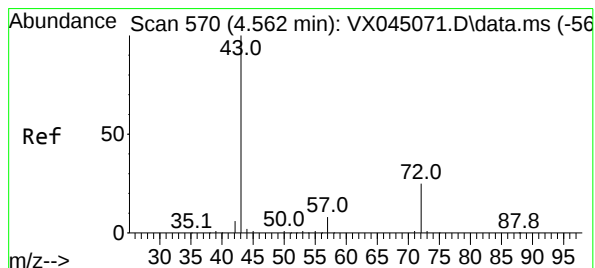
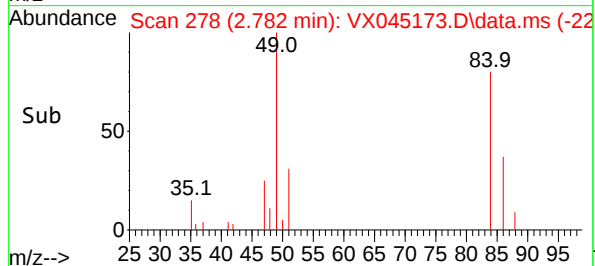
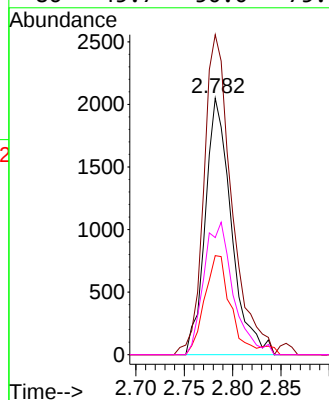
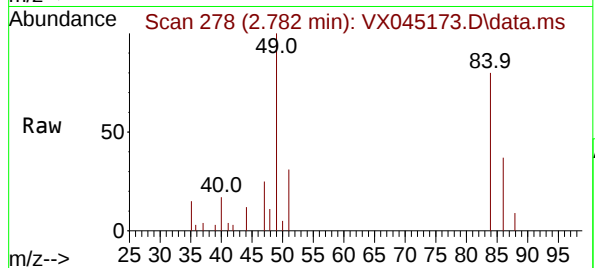
Ion Ratio Lower Upper

84 100

49 122.0 106.5 159.7

51 38.6 32.1 48.1

86 45.7 50.0 75.0#



#25

2-Butanone

Concen: 5.679 ug/l

RT: 4.581 min Scan# 573

Delta R.T. 0.018 min

Lab File: VX045173.D

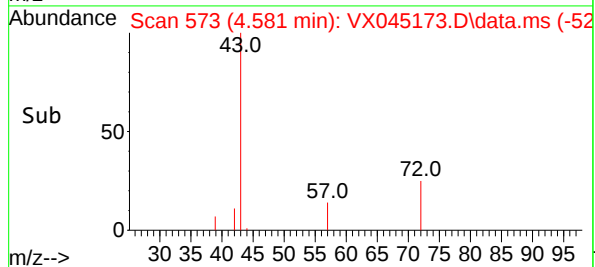
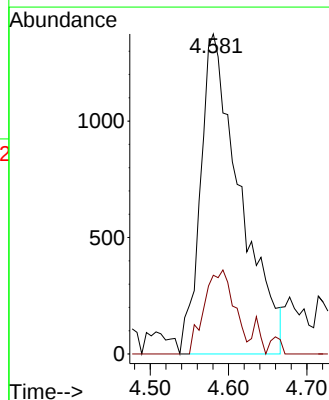
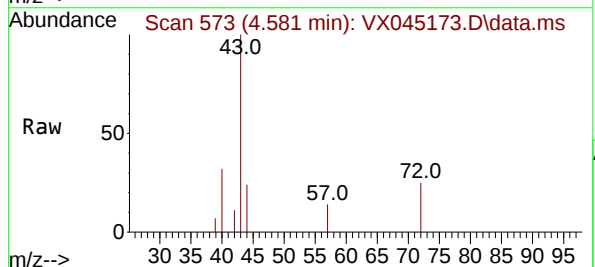
Acq: 06 Mar 2025 17:02

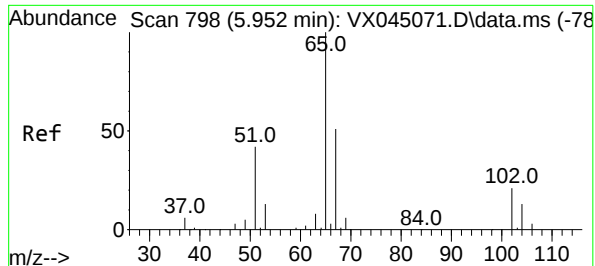
Tgt Ion: 43 Resp: 4831

Ion Ratio Lower Upper

43 100

72 24.6 20.0 30.0





#33

1,2-Dichloroethane-d4

Concen: 53.510 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

Instrument :

MSVOA_X

ClientSampleId :

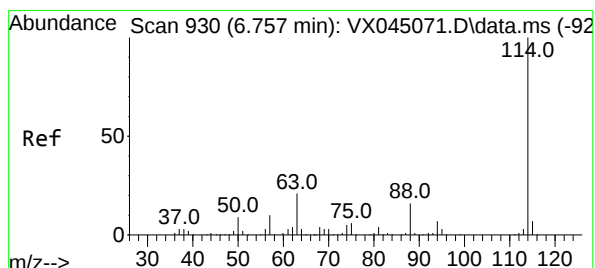
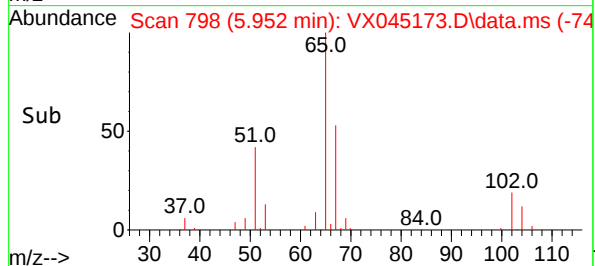
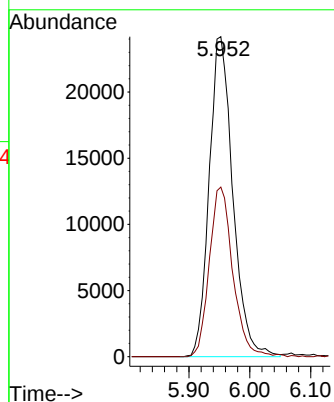
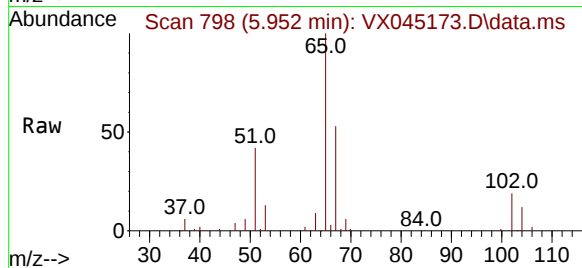
ENV-102-SB02

Tgt Ion: 65 Resp: 65182

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

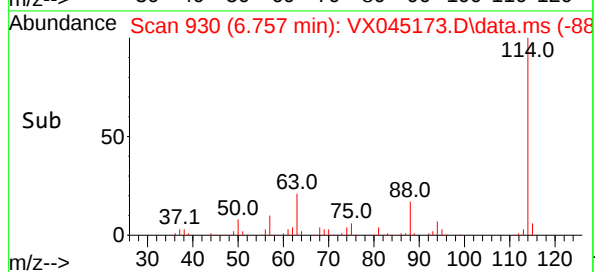
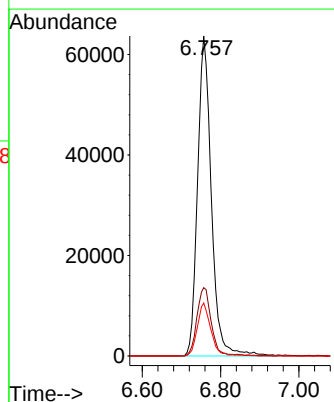
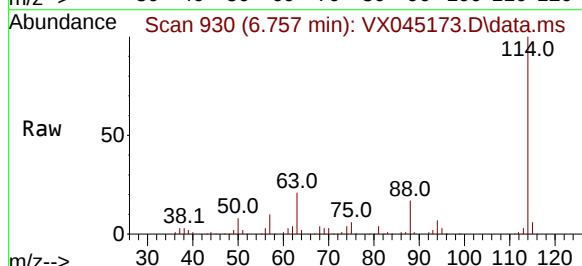
Tgt Ion: 114 Resp: 156077

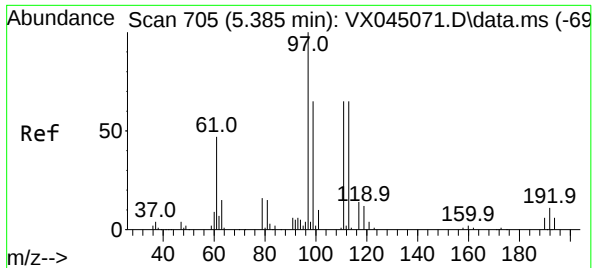
Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.8

88 16.5 0.0 32.8





#35

Dibromofluoromethane

Concen: 51.081 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX045173.D

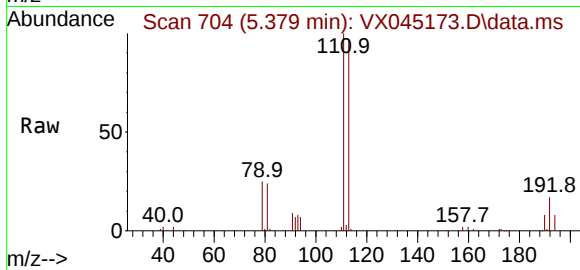
Acq: 06 Mar 2025 17:02

Instrument :

MSVOA_X

ClientSampleId :

ENV-102-SB02



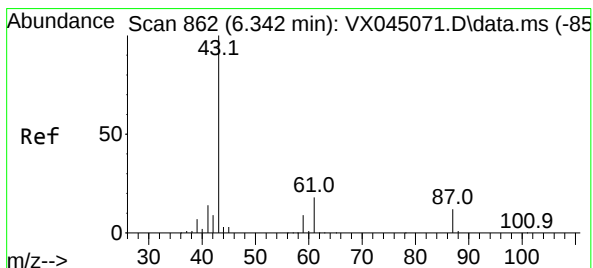
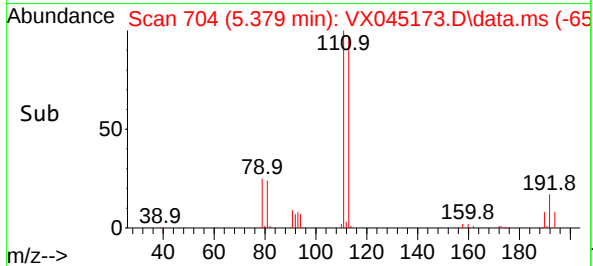
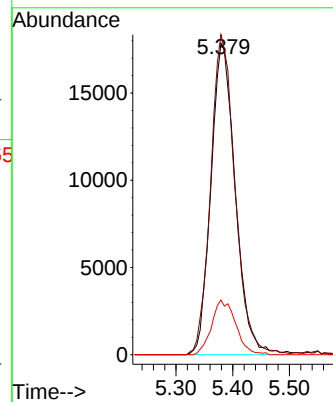
Tgt Ion:113 Resp: 53310

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.6

192 17.3 14.3 21.5



#43

Isopropyl Acetate

Concen: 16.840 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

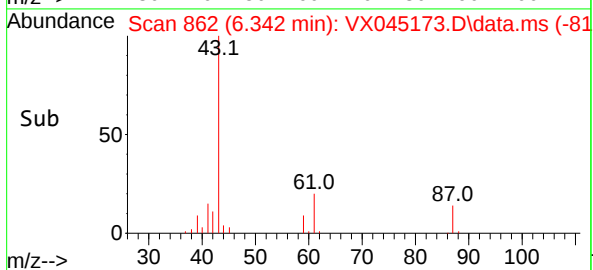
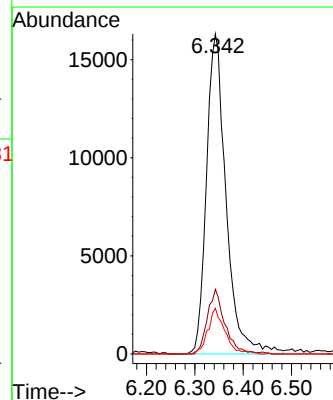
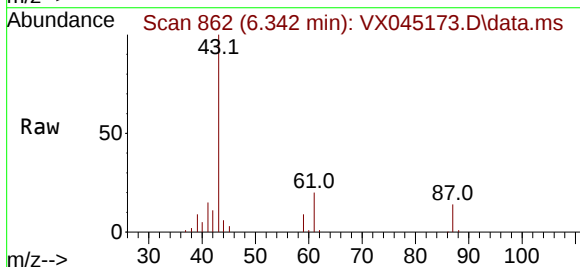
Tgt Ion: 43 Resp: 45924

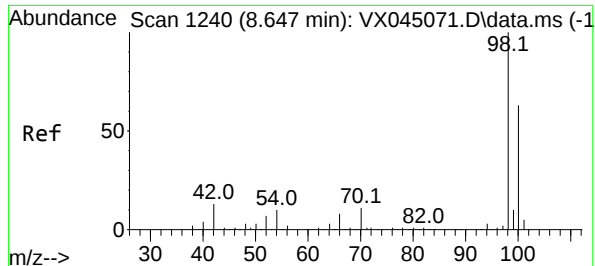
Ion Ratio Lower Upper

43 100

61 18.0 14.9 22.3

87 12.4 9.4 14.2





#50

Toluene-d8

Concen: 50.775 ug/l

RT: 8.647 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

Instrument :

MSVOA_X

ClientSampleId :

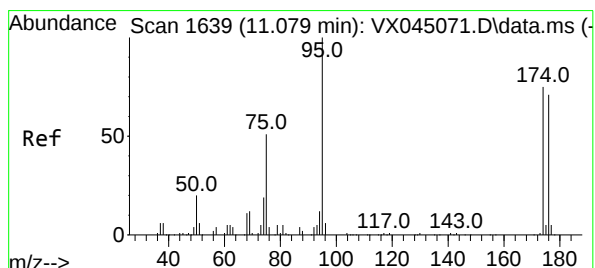
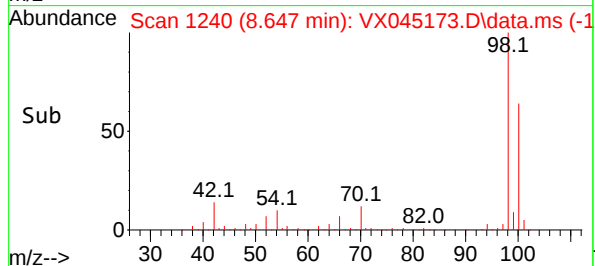
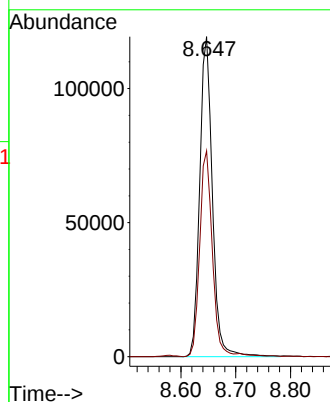
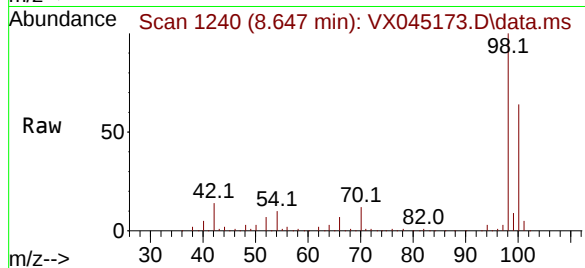
ENV-102-SB02

Tgt Ion: 98 Resp: 192112

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 50.800 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

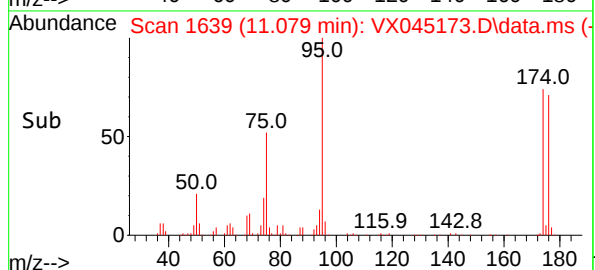
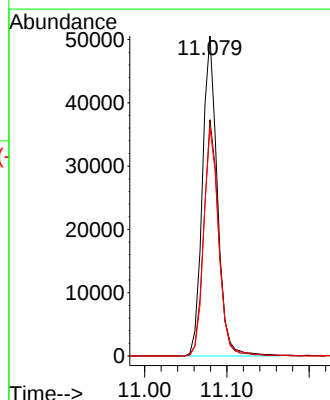
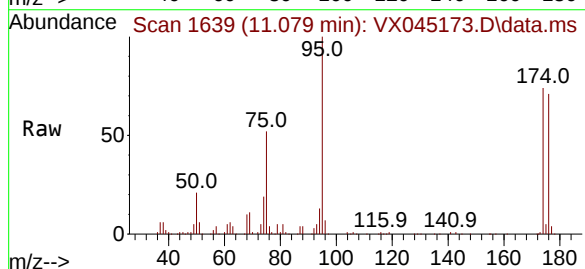
Tgt Ion: 95 Resp: 63691

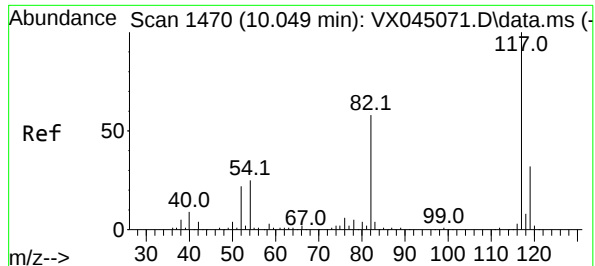
Ion Ratio Lower Upper

95 100

174 73.3 0.0 148.2

176 71.4 0.0 141.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

Instrument :

MSVOA_X

ClientSampleId :

ENV-102-SB02

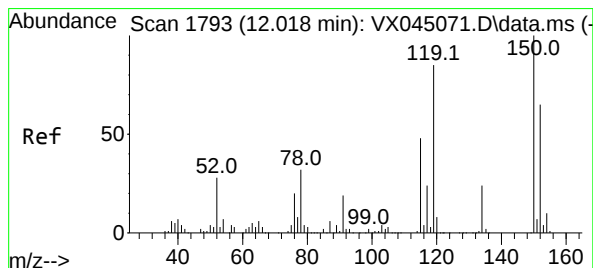
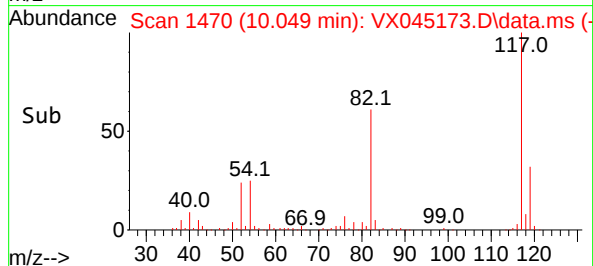
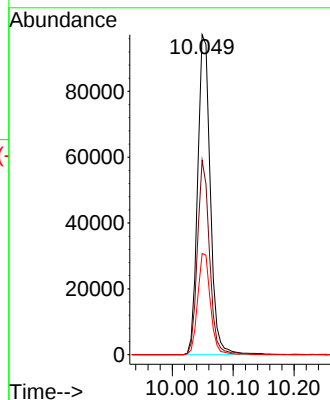
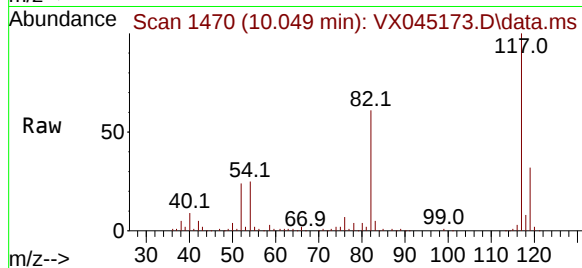
Tgt Ion:117 Resp: 139915

Ion Ratio Lower Upper

117 100

82 60.8 46.3 69.5

119 31.6 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX045173.D

Acq: 06 Mar 2025 17:02

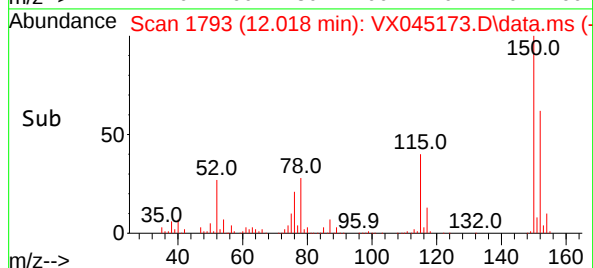
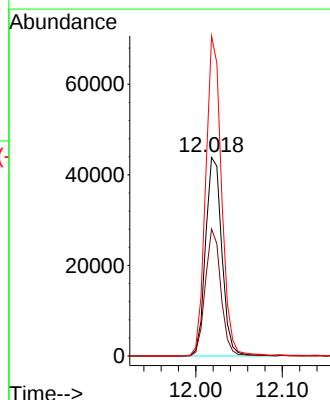
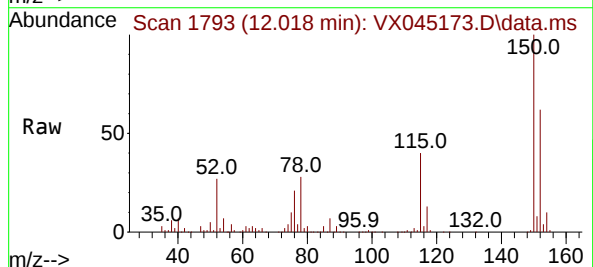
Tgt Ion:152 Resp: 57260

Ion Ratio Lower Upper

152 100

115 61.2 44.2 132.6

150 157.3 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045174.D
 Acq On : 06 Mar 2025 17:25
 Operator : JC/MD
 Sample : Q1488-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-104-SB01

Quant Time: Mar 07 00:47:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

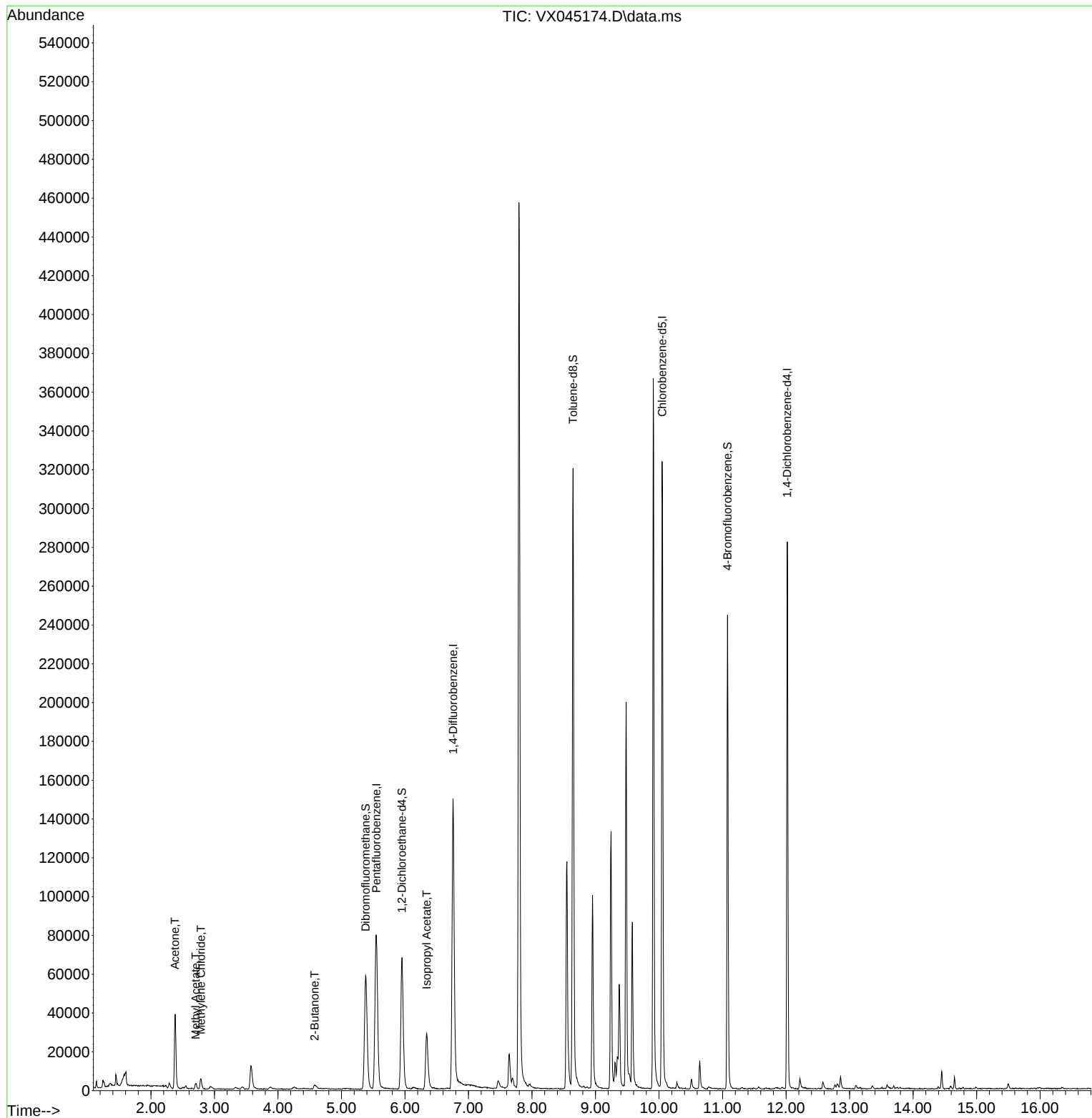
Internal Standards						
1) Pentafluorobenzene	5.550	168	75491	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152473	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	138291	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55464	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63445	52.836	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.680%	
35) Dibromofluoromethane	5.379	113	51588	50.599	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.200%	
50) Toluene-d8	8.647	98	190820	51.626	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.260%	
62) 4-Bromofluorobenzene	11.079	95	63521	51.862	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 103.720%	
Target Compounds						
					Qvalue	
16) Acetone	2.380	43	41961	75.316	ug/l	95
18) Methyl Acetate	2.703	43	3776	2.817	ug/l	98
20) Methylene Chloride	2.788	84	2526	2.289	ug/l	89
25) 2-Butanone	4.574	43	4523	5.393	ug/l	97
43) Isopropyl Acetate	6.342	43	42994	16.138	ug/l	99

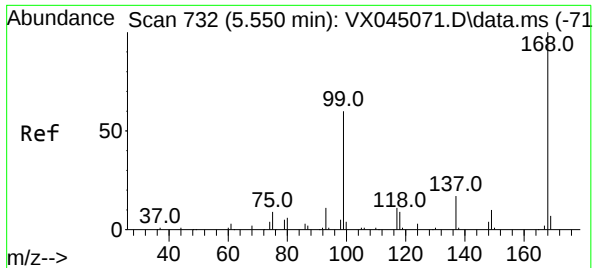
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045174.D
Acq On : 06 Mar 2025 17:25
Operator : JC/MD
Sample : Q1488-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

Quant Time: Mar 07 00:47:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

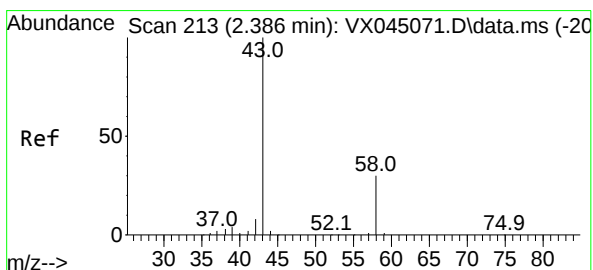
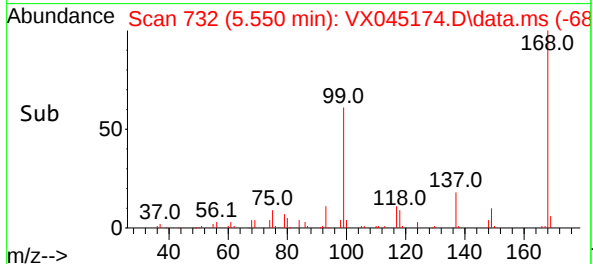
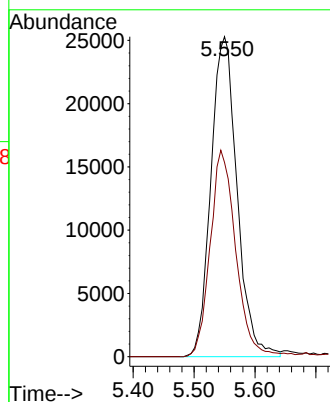
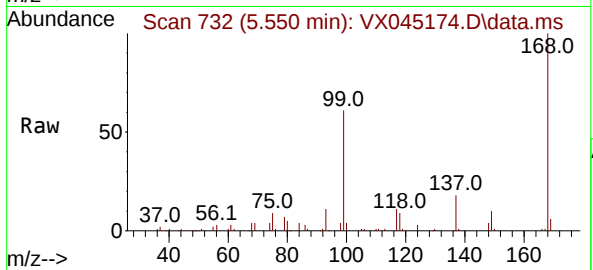




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

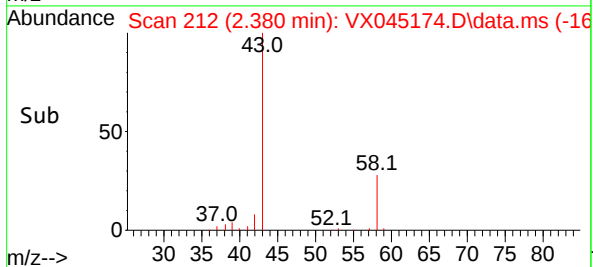
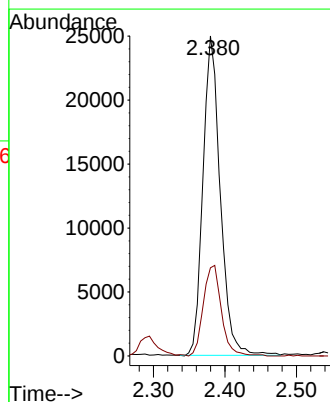
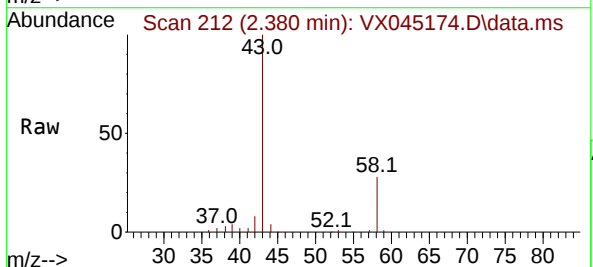
Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

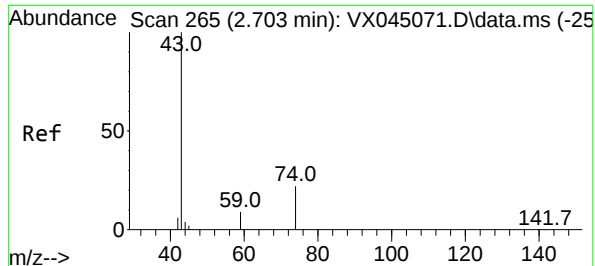
Tgt Ion:168 Resp: 75491
Ion Ratio Lower Upper
168 100
99 60.7 48.2 72.4



#16
Acetone
Concen: 75.316 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Tgt Ion: 43 Resp: 41961
Ion Ratio Lower Upper
43 100
58 27.6 24.2 36.4





#18

Methyl Acetate

Concen: 2.817 ug/l

RT: 2.703 min Scan# 2

Delta R.T. 0.000 min

Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

Instrument :

MSVOA_X

ClientSampleId :

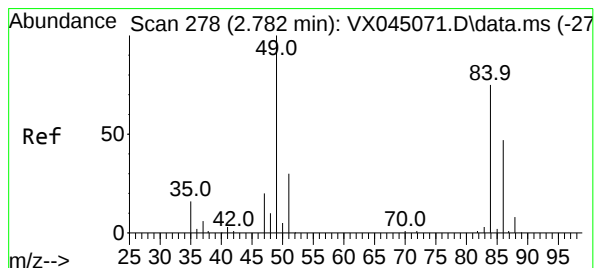
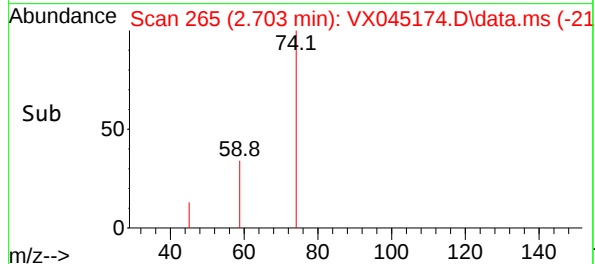
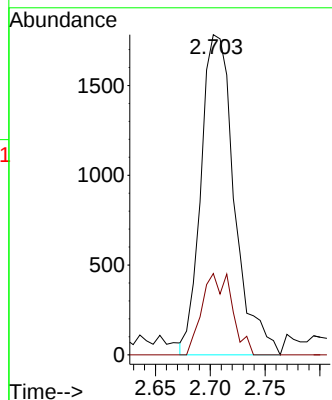
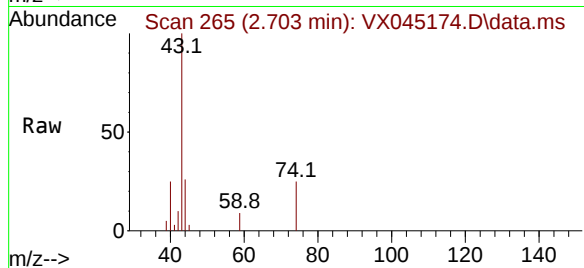
ENV-104-SB01

Tgt Ion: 43 Resp: 3776

Ion Ratio Lower Upper

43 100

74 22.9 17.4 26.2



#20

Methylene Chloride

Concen: 2.289 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

Tgt Ion: 84 Resp: 2526

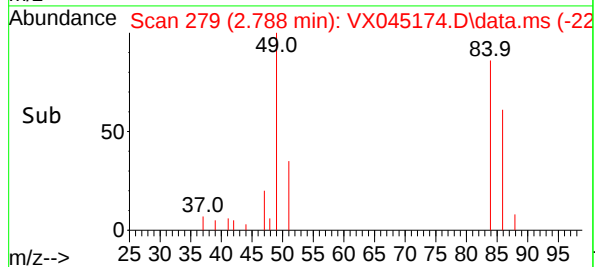
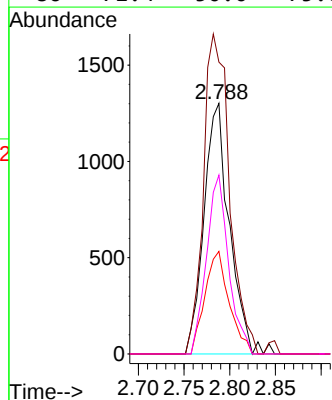
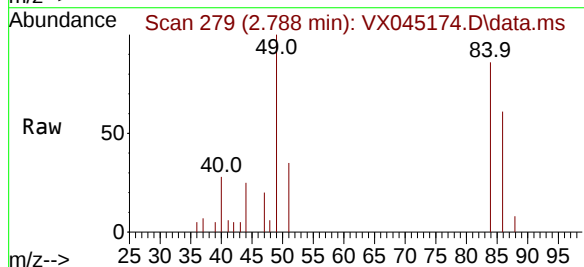
Ion Ratio Lower Upper

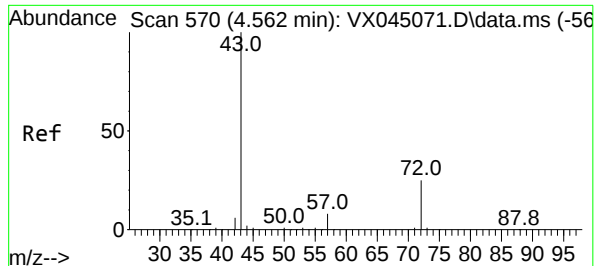
84 100

49 116.5 106.5 159.7

51 41.0 32.1 48.1

86 71.4 50.0 75.0





#25

2-Butanone

Concen: 5.393 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

Instrument :

MSVOA_X

ClientSampleId :

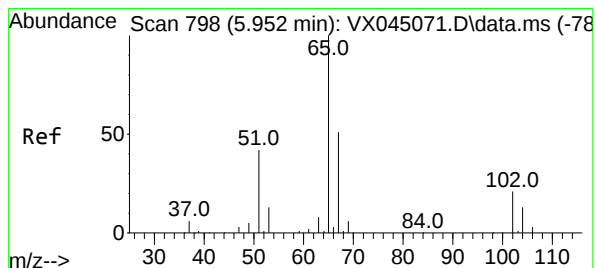
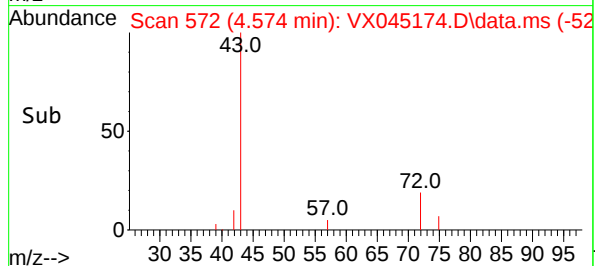
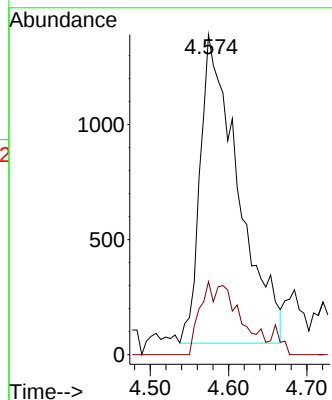
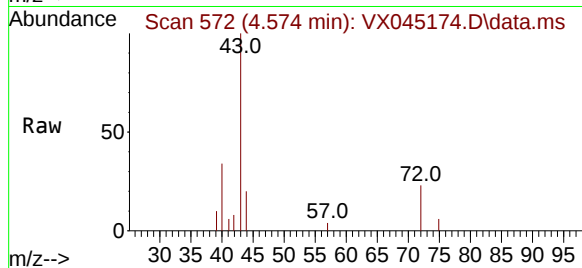
ENV-104-SB01

Tgt Ion: 43 Resp: 4523

Ion Ratio Lower Upper

43 100

72 23.7 20.0 30.0



#33

1,2-Dichloroethane-d4

Concen: 52.836 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045174.D

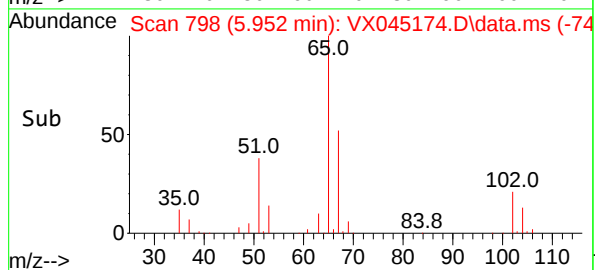
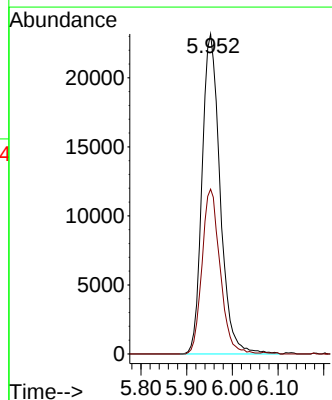
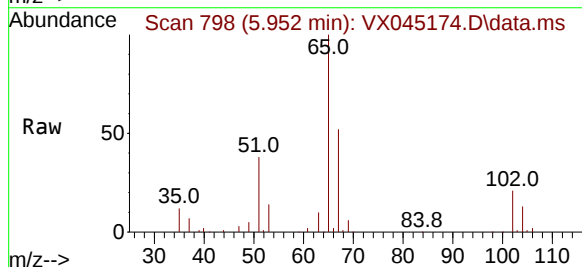
Acq: 06 Mar 2025 17:25

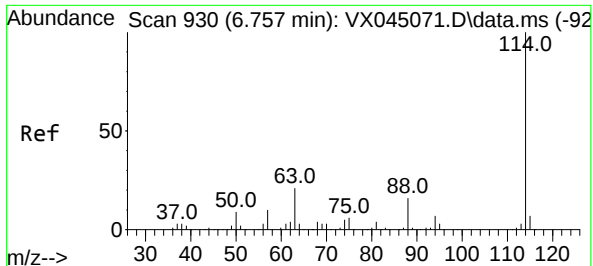
Tgt Ion: 65 Resp: 63445

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

Instrument :

MSVOA_X

ClientSampleId :

ENV-104-SB01

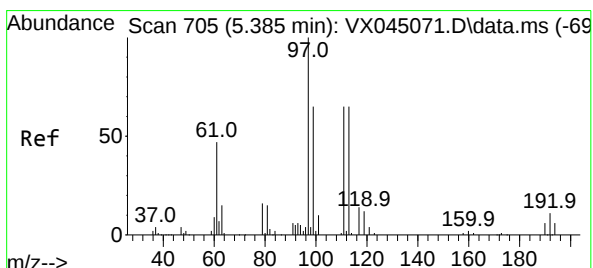
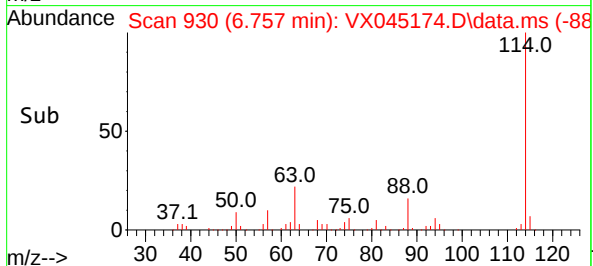
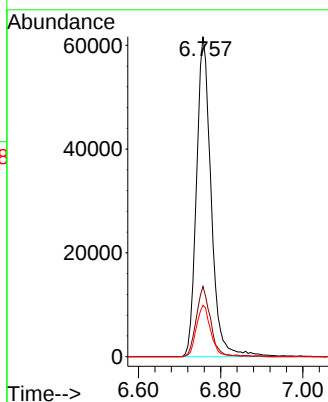
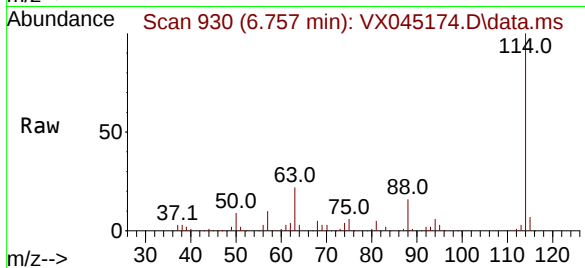
Tgt Ion:114 Resp: 152473

Ion Ratio Lower Upper

114 100

63 22.0 0.0 41.8

88 16.0 0.0 32.8



#35

Dibromofluoromethane

Concen: 50.599 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

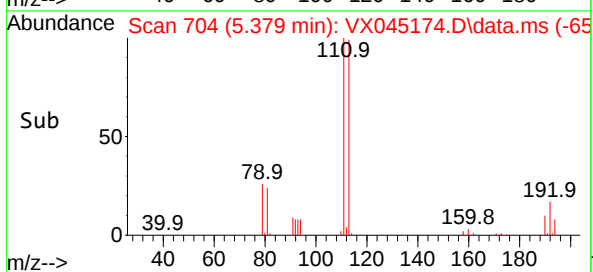
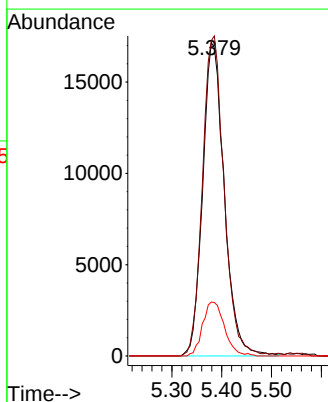
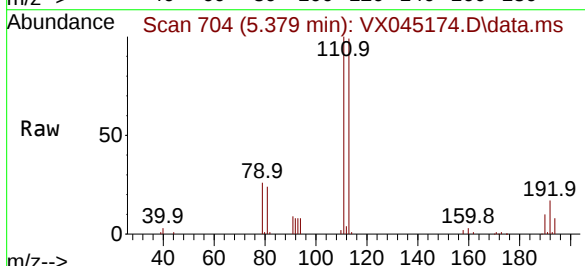
Tgt Ion:113 Resp: 51588

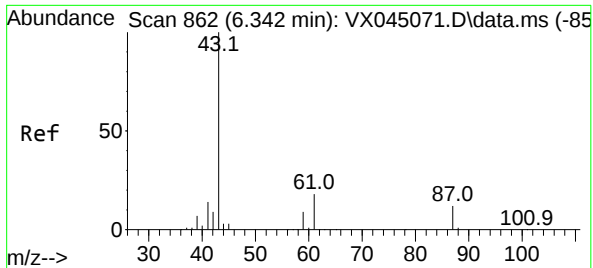
Ion Ratio Lower Upper

113 100

111 102.0 81.8 122.6

192 17.4 14.3 21.5





#43

Isopropyl Acetate

Concen: 16.138 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.000 min

Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

Instrument :

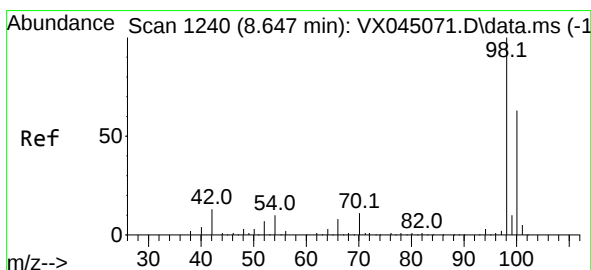
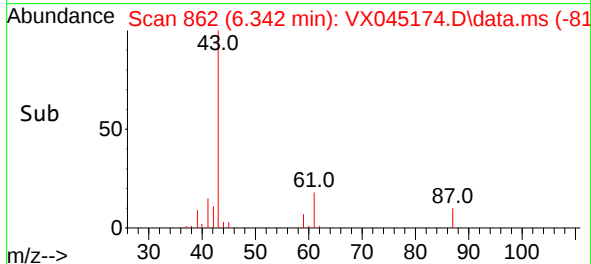
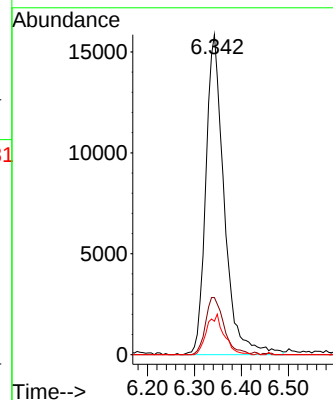
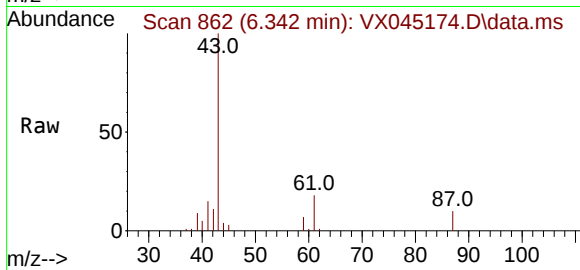
MSVOA_X

ClientSampleId :

ENV-104-SB01

Tgt Ion: 43 Resp: 42994

Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.9	22.3
87	12.0	9.4	14.2



#50

Toluene-d8

Concen: 51.626 ug/l

RT: 8.647 min Scan# 1240

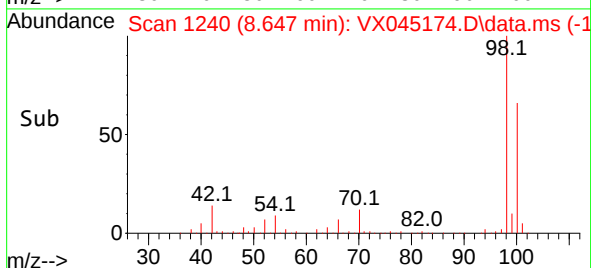
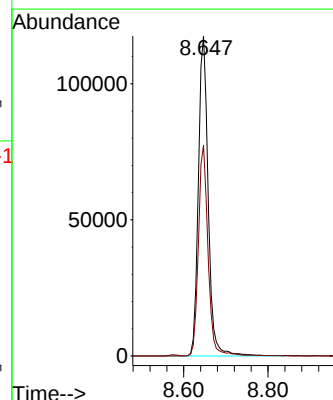
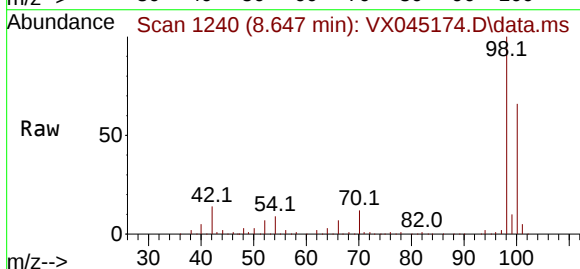
Delta R.T. 0.000 min

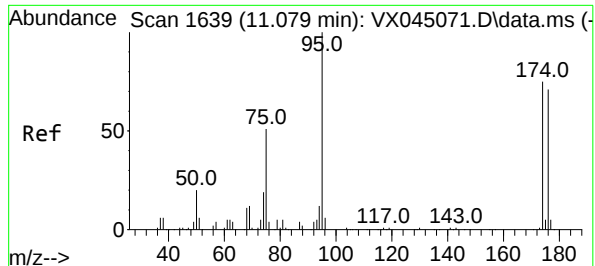
Lab File: VX045174.D

Acq: 06 Mar 2025 17:25

Tgt Ion: 98 Resp: 190820

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0

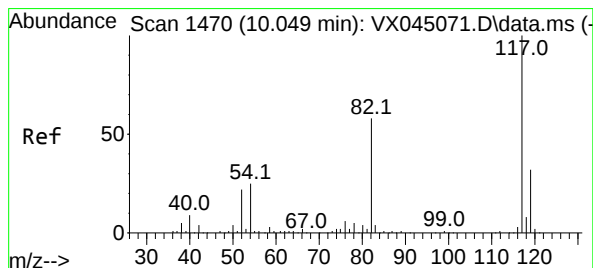
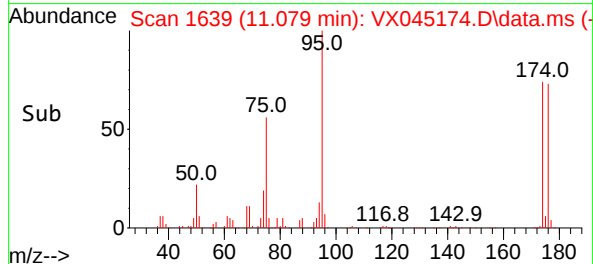
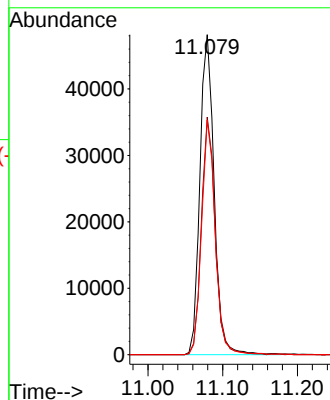
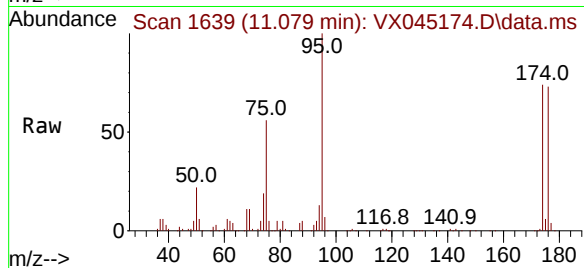




#62
4-Bromofluorobenzene
Concen: 51.862 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

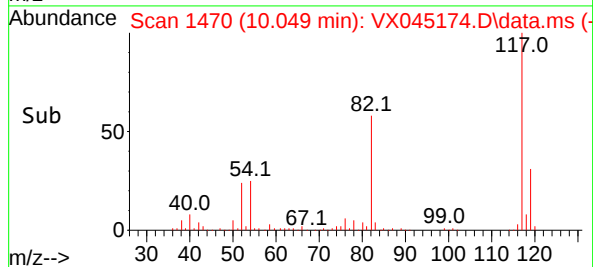
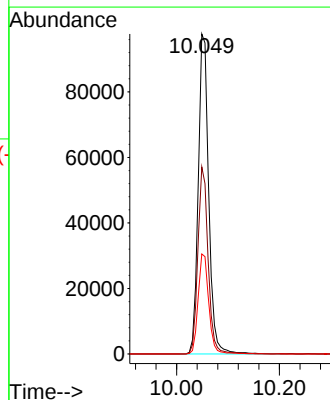
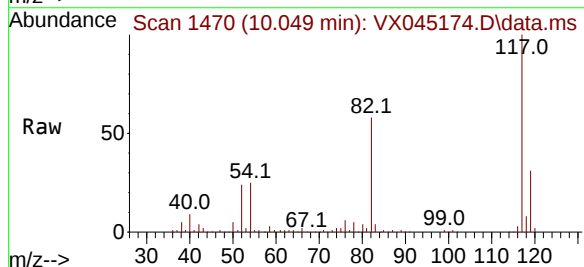
Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB01

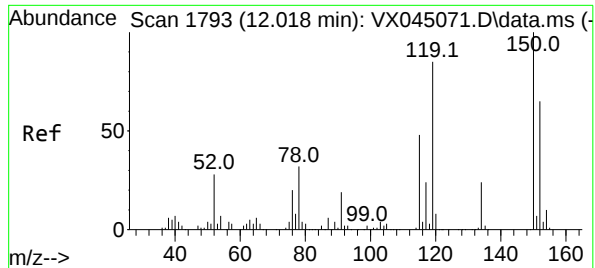
Tgt Ion: 95 Resp: 63521
Ion Ratio Lower Upper
95 100
174 72.6 0.0 148.2
176 70.4 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045174.D
Acq: 06 Mar 2025 17:25

Tgt Ion: 117 Resp: 138291
Ion Ratio Lower Upper
117 100
82 58.5 46.3 69.5
119 31.2 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045174.D

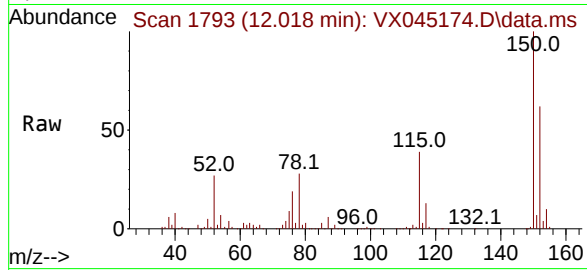
Acq: 06 Mar 2025 17:25

Instrument :

MSVOA_X

ClientSampleId :

ENV-104-SB01



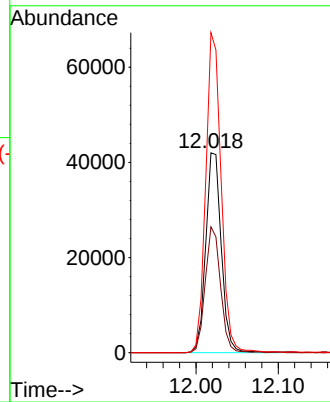
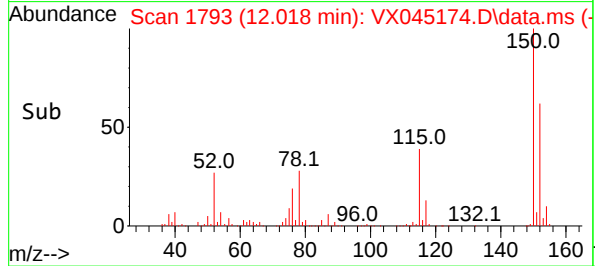
Tgt Ion:152 Resp: 55464

Ion Ratio Lower Upper

152 100

115 61.8 44.2 132.6

150 158.1 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045175.D
 Acq On : 06 Mar 2025 17:49
 Operator : JC/MD
 Sample : Q1488-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-104-SB02

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Mar 07 00:48:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

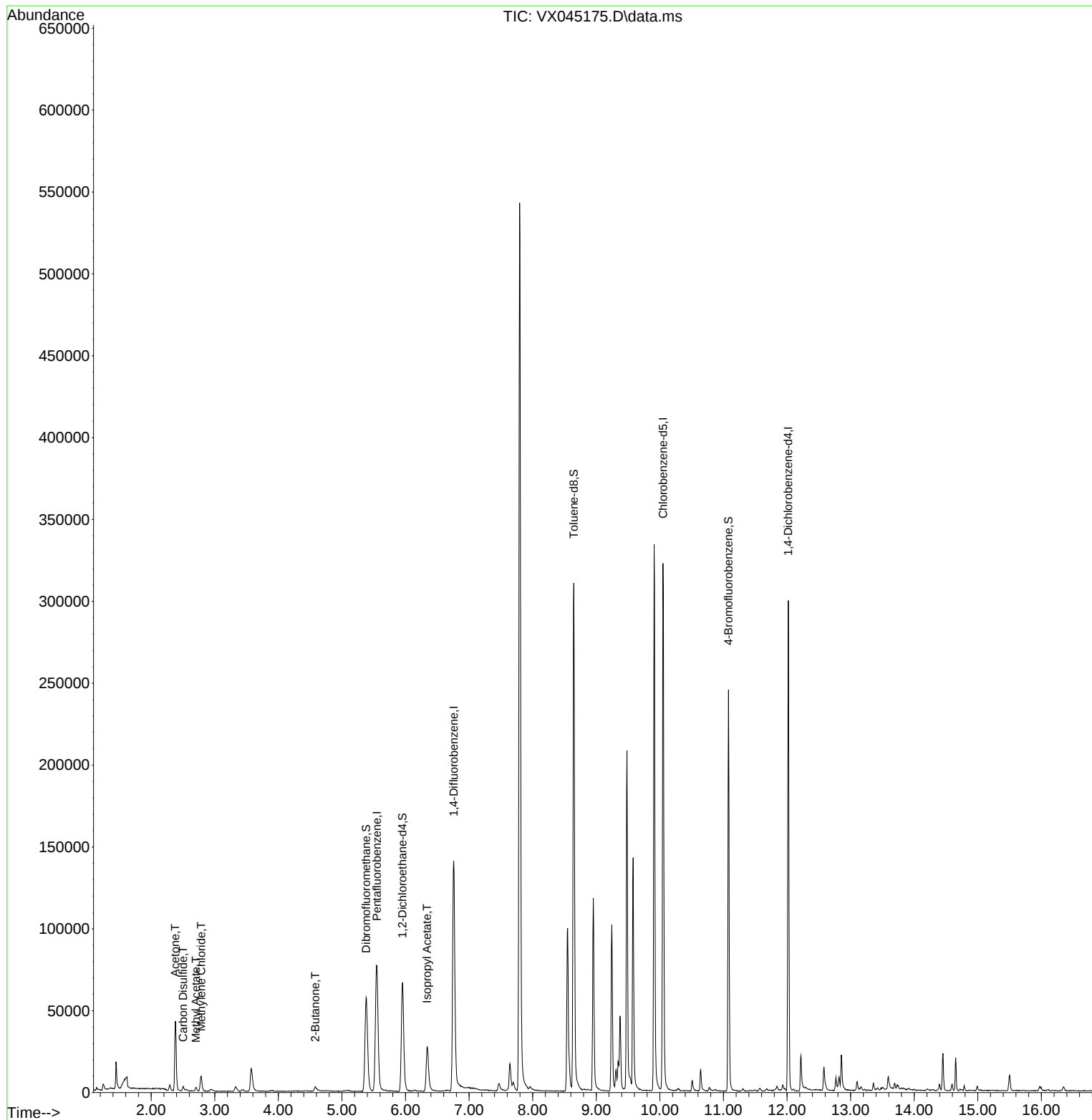
Internal Standards						
1) Pentafluorobenzene	5.550	168	75040	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	148256	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	137450	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	56384	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62508	52.368	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 104.740%		
35) Dibromofluoromethane	5.379	113	49589	50.022	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 100.040%		
50) Toluene-d8	8.647	98	187191	52.084	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 104.160%		
62) 4-Bromofluorobenzene	11.079	95	62513	52.491	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 104.980%		
Target Compounds						
					Qvalue	
16) Acetone	2.380	43	46915	84.714	ug/l	99
17) Carbon Disulfide	2.502	76	3381	1.377	ug/l	100
18) Methyl Acetate	2.703	43	3232	2.426	ug/l	93
20) Methylene Chloride	2.788	84	4495	4.097	ug/l	93
25) 2-Butanone	4.581	43	5655	6.784	ug/l	91
43) Isopropyl Acetate	6.336	43	40419	15.603	ug/l	97

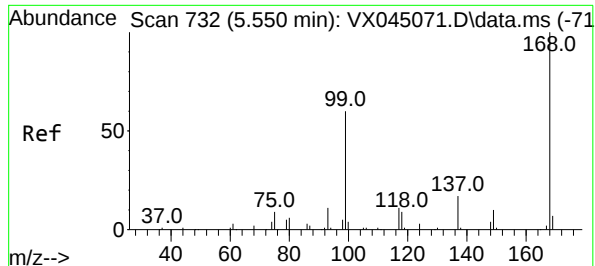
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045175.D
Acq On : 06 Mar 2025 17:49
Operator : JC/MD
Sample : Q1488-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 07 00:48:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

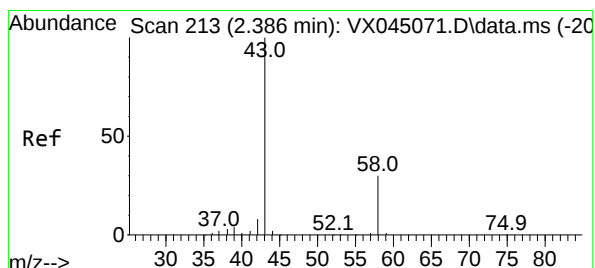
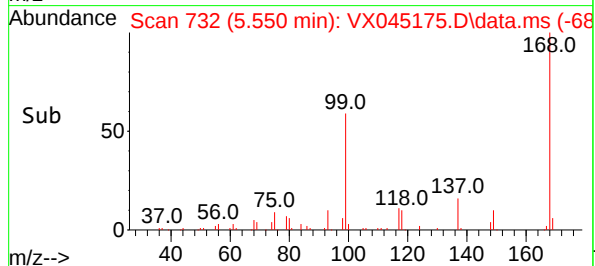
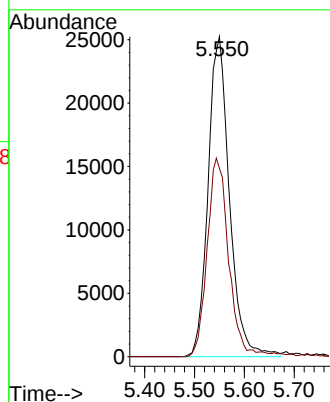
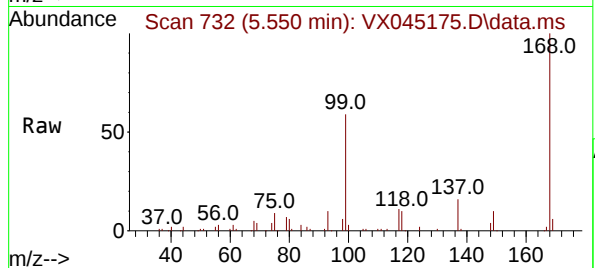




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

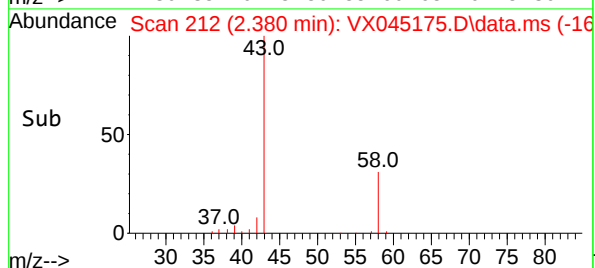
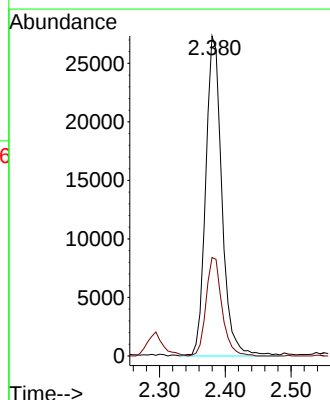
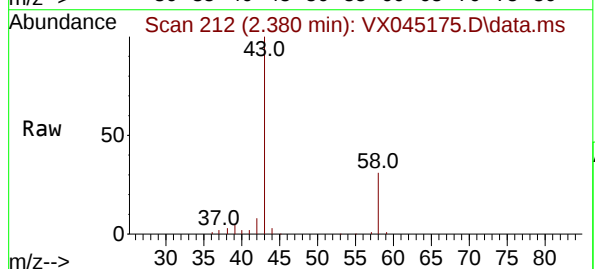
Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

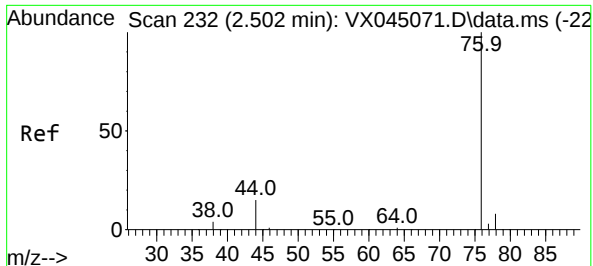
Tgt Ion:168 Resp: 75040
Ion Ratio Lower Upper
168 100
99 58.9 48.2 72.4



#16
Acetone
Concen: 84.714 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Tgt Ion: 43 Resp: 46915
Ion Ratio Lower Upper
43 100
58 30.8 24.2 36.4

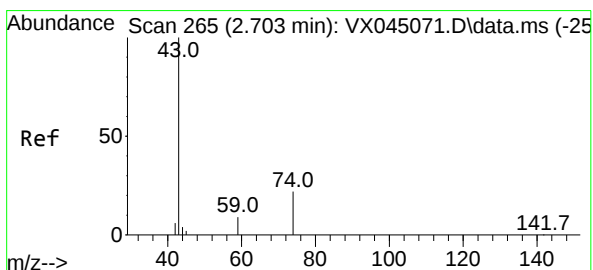
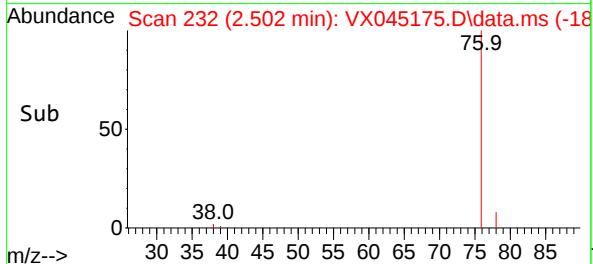
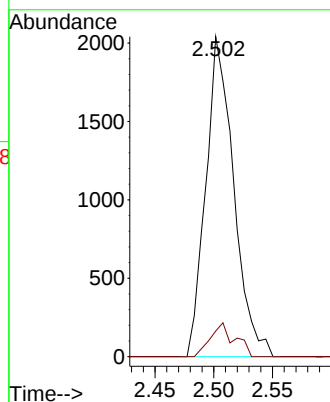
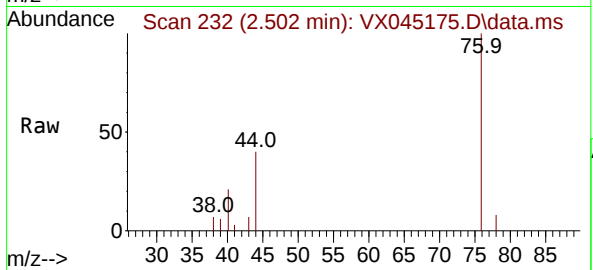




#17
Carbon Disulfide
Concen: 1.377 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

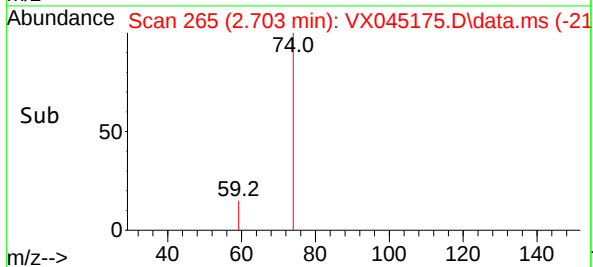
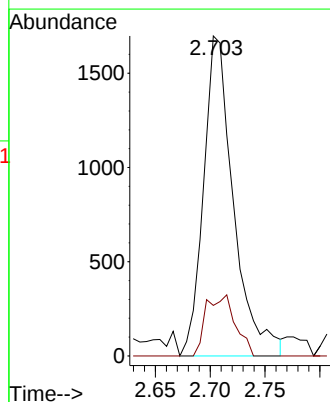
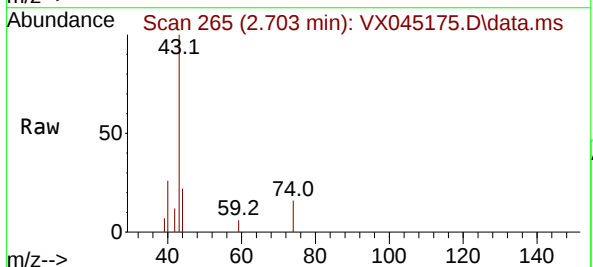
Instrument :
MSVOA_X
ClientSampleId :
ENV-104-SB02

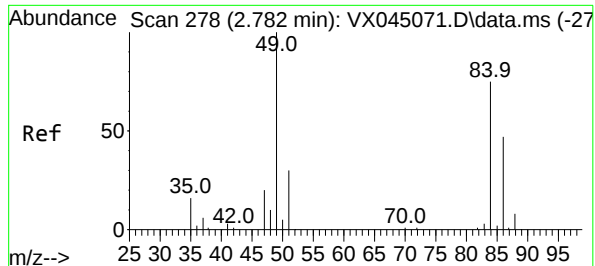
Tgt Ion: 76 Resp: 3381
Ion Ratio Lower Upper
76 100
78 8.0 6.6 9.8



#18
Methyl Acetate
Concen: 2.426 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045175.D
Acq: 06 Mar 2025 17:49

Tgt Ion: 43 Resp: 3232
Ion Ratio Lower Upper
43 100
74 18.6 17.4 26.2





#20

Methylene Chloride

Concen: 4.097 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

Instrument :

MSVOA_X

ClientSampleId :

ENV-104-SB02

Tgt Ion: 84 Resp: 4495

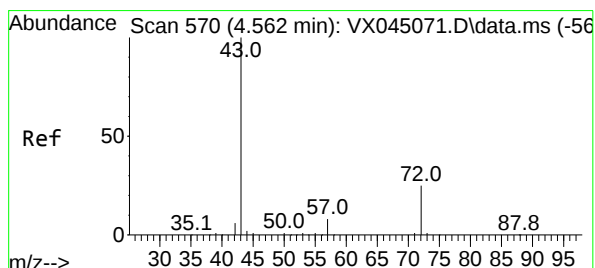
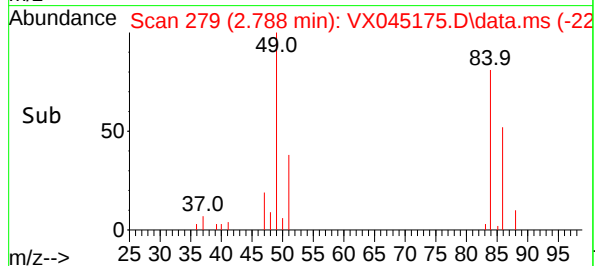
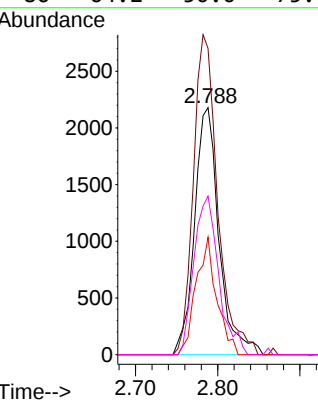
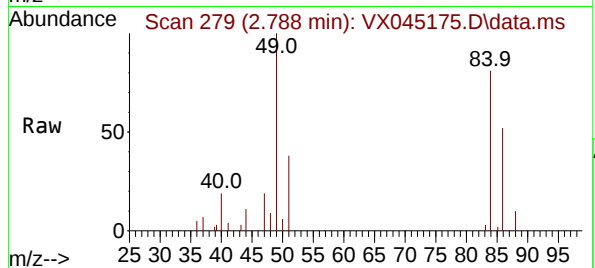
Ion Ratio Lower Upper

84 100

49 124.0 106.5 159.7

51 47.5 32.1 48.1

86 64.2 50.0 75.0



#25

2-Butanone

Concen: 6.784 ug/l

RT: 4.581 min Scan# 573

Delta R.T. 0.018 min

Lab File: VX045175.D

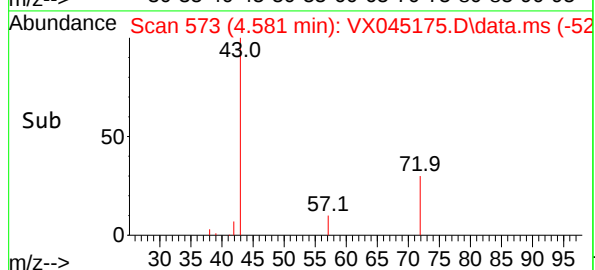
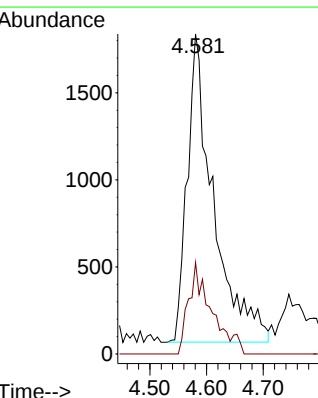
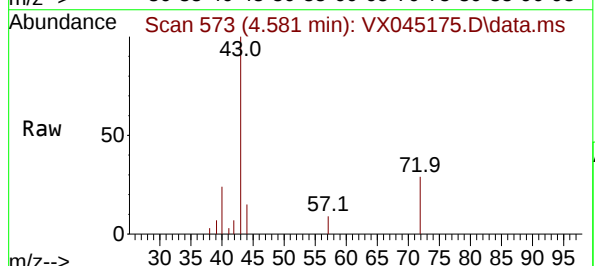
Acq: 06 Mar 2025 17:49

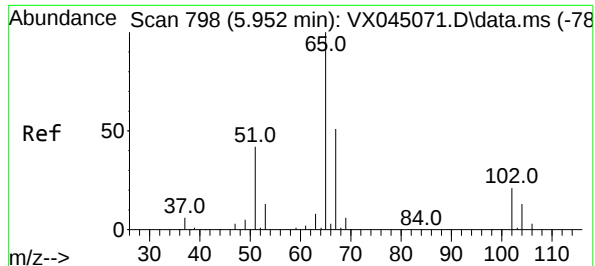
Tgt Ion: 43 Resp: 5655

Ion Ratio Lower Upper

43 100

72 29.7 20.0 30.0





#33

1,2-Dichloroethane-d4

Concen: 52.368 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

Instrument :

MSVOA_X

ClientSampleId :

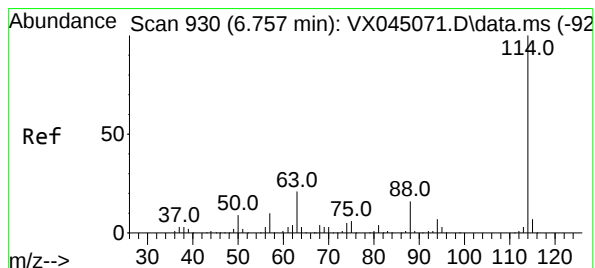
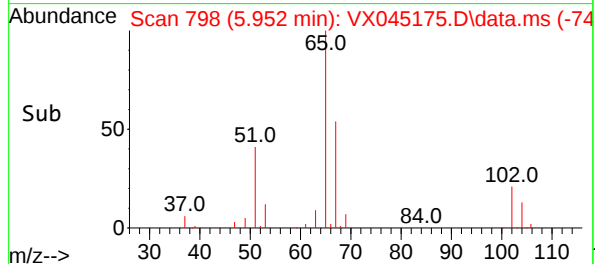
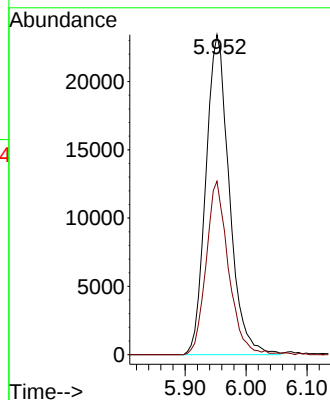
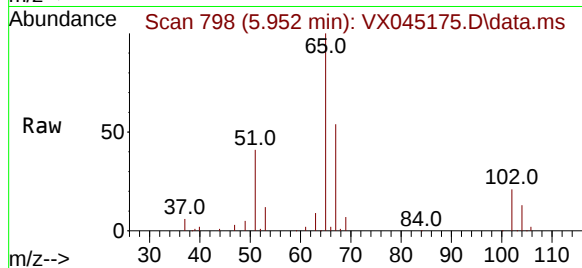
ENV-104-SB02

Tgt Ion: 65 Resp: 62508

Ion Ratio Lower Upper

65 100

67 51.7 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

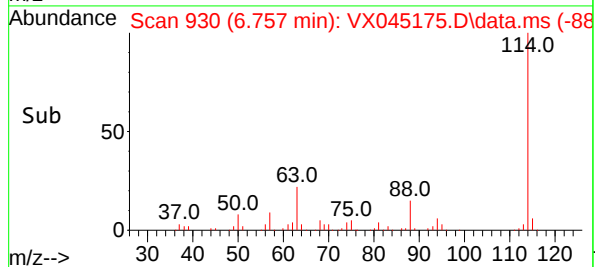
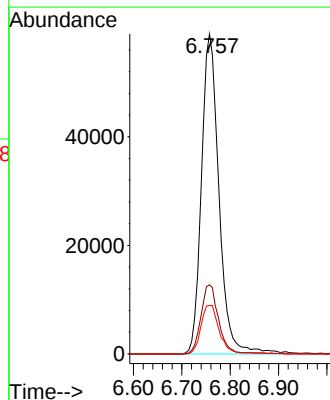
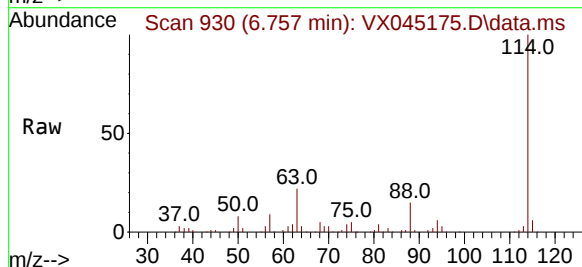
Tgt Ion: 114 Resp: 148256

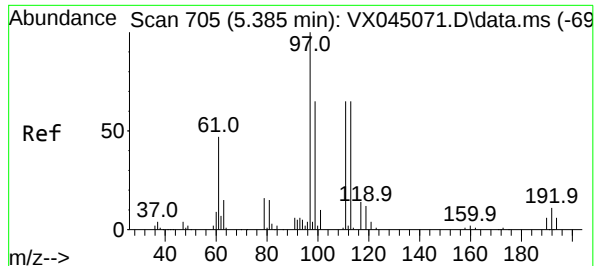
Ion Ratio Lower Upper

114 100

63 21.6 0.0 41.8

88 15.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.022 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX045175.D

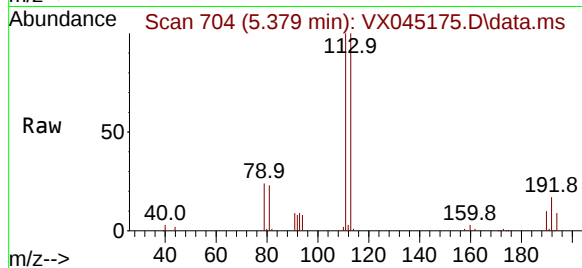
Acq: 06 Mar 2025 17:49

Instrument :

MSVOA_X

ClientSampleId :

ENV-104-SB02



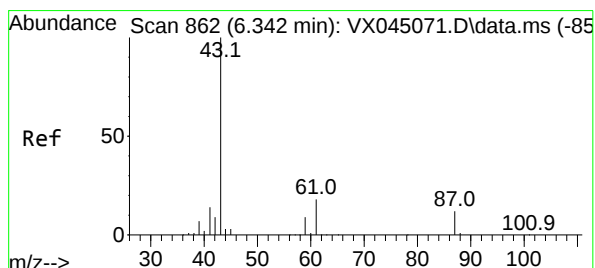
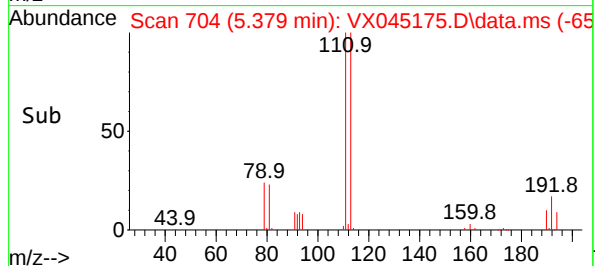
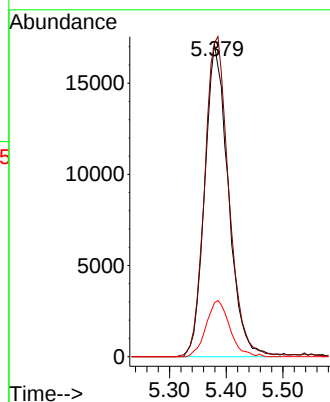
Tgt Ion:113 Resp: 49589

Ion Ratio Lower Upper

113 100

111 105.2 81.8 122.6

192 18.0 14.3 21.5



#43

Isopropyl Acetate

Concen: 15.603 ug/l

RT: 6.336 min Scan# 861

Delta R.T. -0.006 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

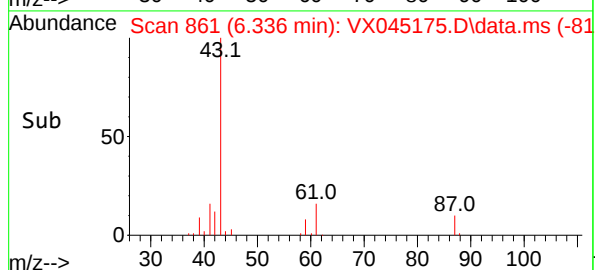
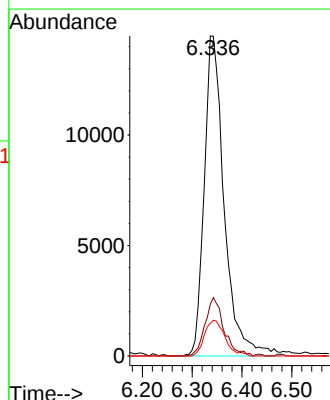
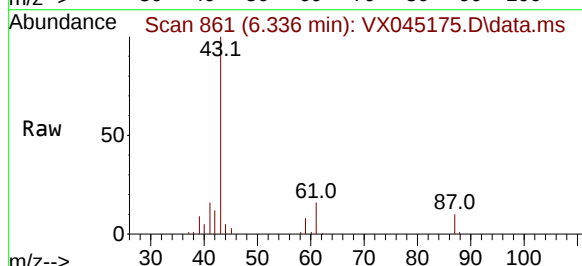
Tgt Ion: 43 Resp: 40419

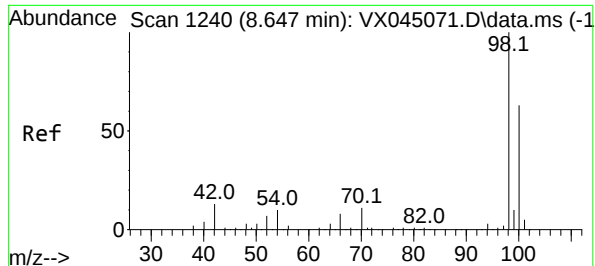
Ion Ratio Lower Upper

43 100

61 17.0 14.9 22.3

87 11.4 9.4 14.2





#50

Toluene-d8

Concen: 52.084 ug/l

RT: 8.647 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

Instrument :

MSVOA_X

ClientSampleId :

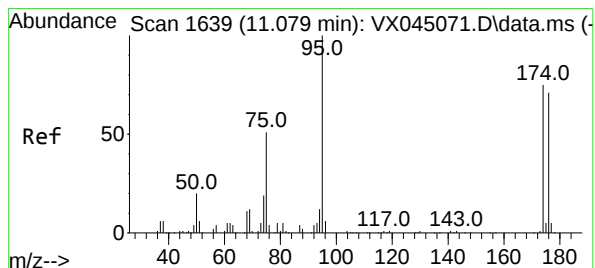
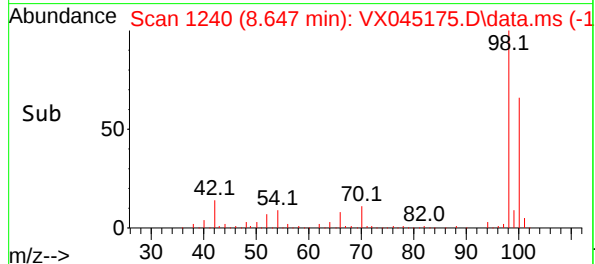
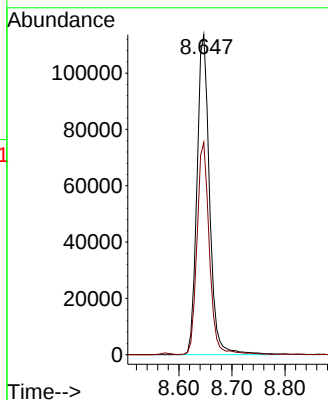
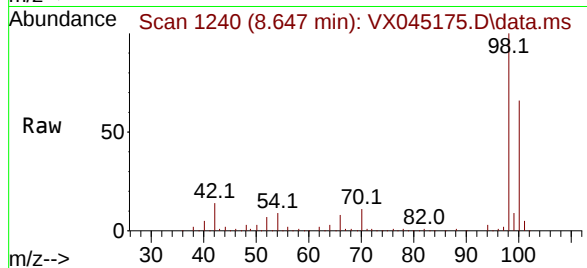
ENV-104-SB02

Tgt Ion: 98 Resp: 187191

Ion Ratio Lower Upper

98 100

100 65.0 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 52.491 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

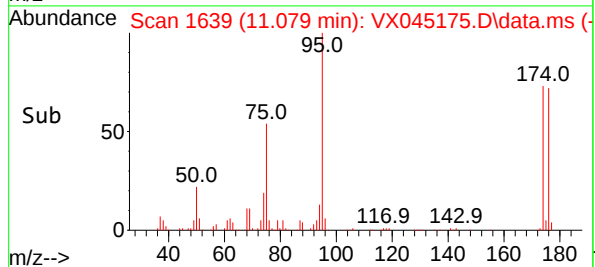
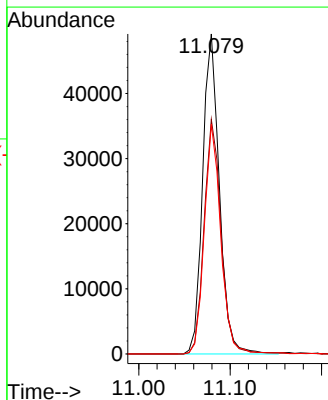
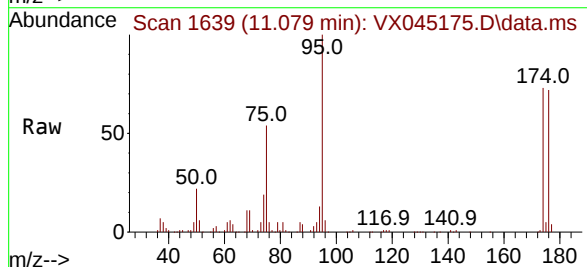
Tgt Ion: 95 Resp: 62513

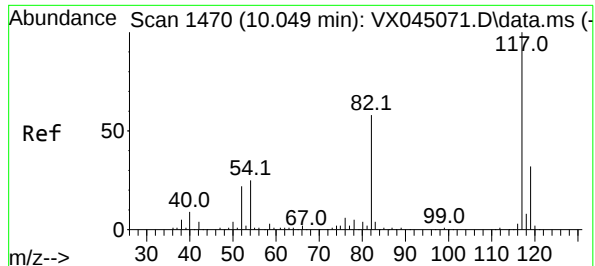
Ion Ratio Lower Upper

95 100

174 74.7 0.0 148.2

176 70.9 0.0 141.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

Instrument :

MSVOA_X

ClientSampleId :

ENV-104-SB02

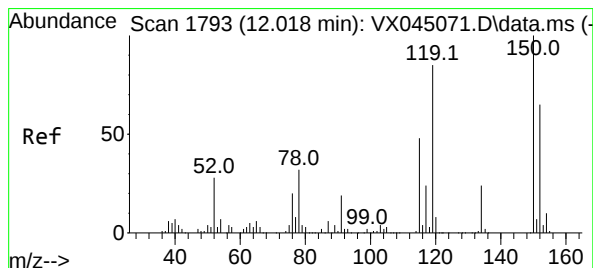
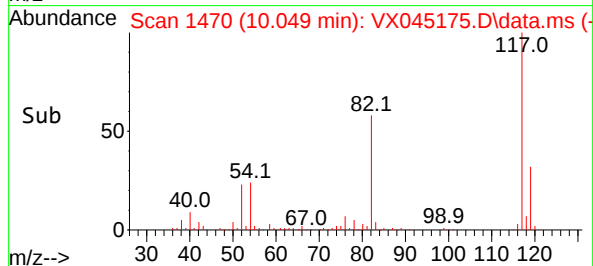
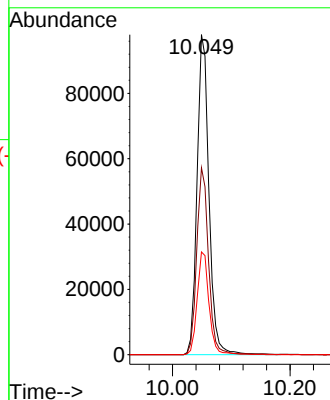
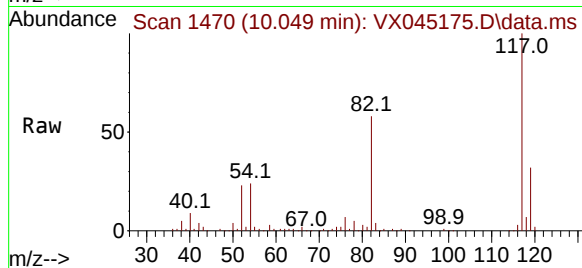
Tgt Ion:117 Resp: 137450

Ion Ratio Lower Upper

117 100

82 58.4 46.3 69.5

119 32.1 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX045175.D

Acq: 06 Mar 2025 17:49

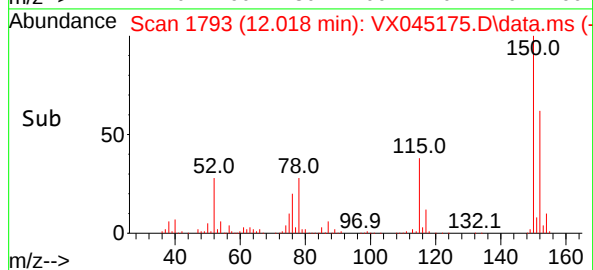
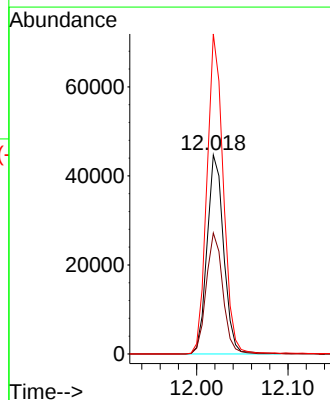
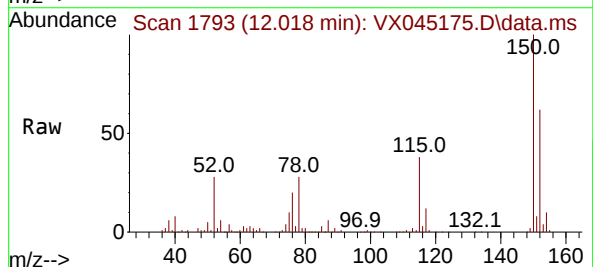
Tgt Ion:152 Resp: 56384

Ion Ratio Lower Upper

152 100

115 60.7 44.2 132.6

150 158.4 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Mar 07 00:37:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	71177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	139793	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129041	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	53719	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61044	53.917	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	107.840%
35) Dibromofluoromethane	5.379	113	48946	52.362	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.720%
50) Toluene-d8	8.647	98	177288	52.315	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.640%
62) 4-Bromofluorobenzene	11.079	95	58160	51.792	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.580%

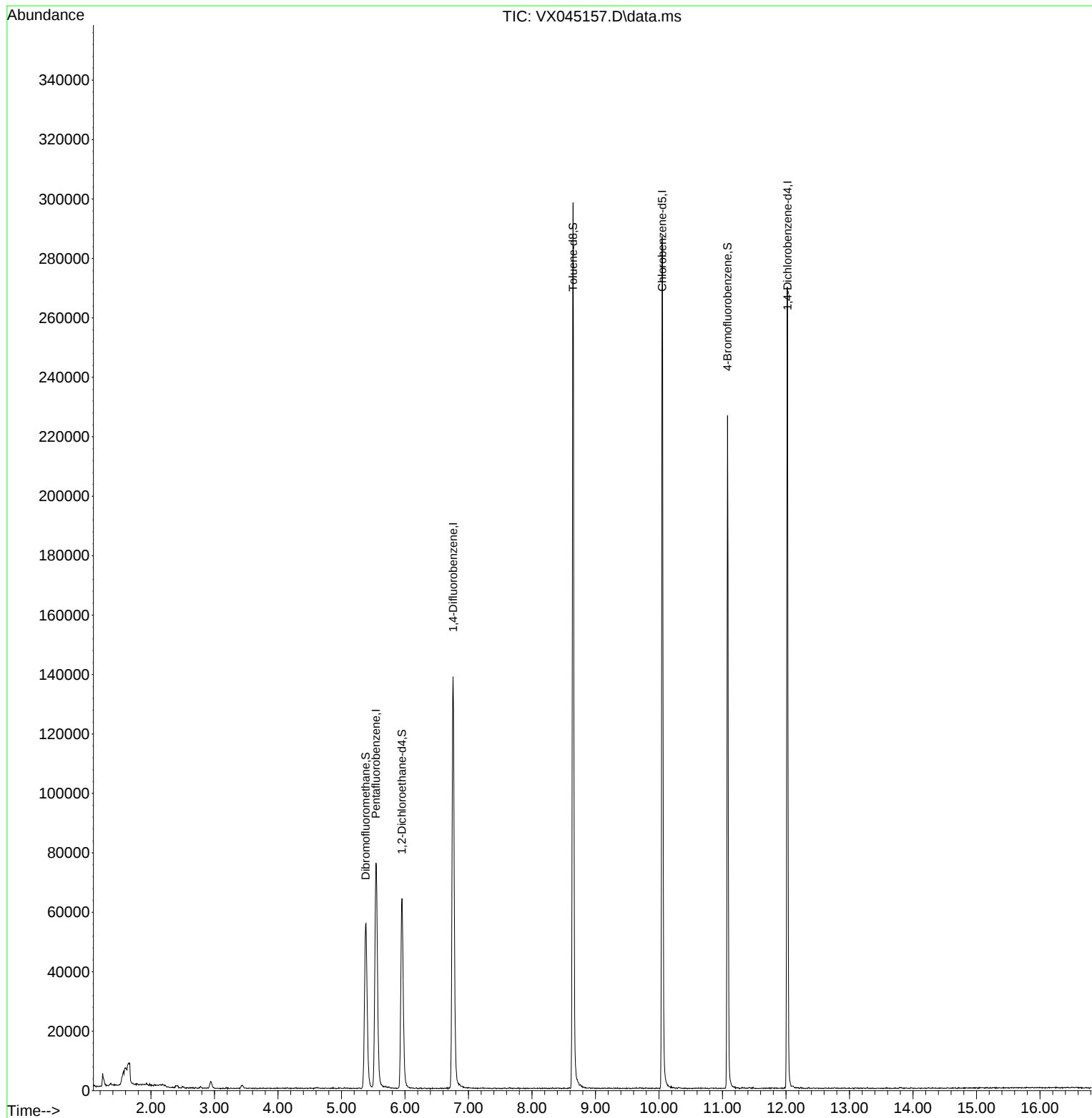
Target Compounds	Qvalue

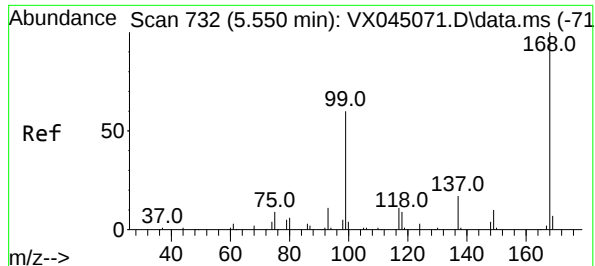
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Quant Time: Mar 07 00:37:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

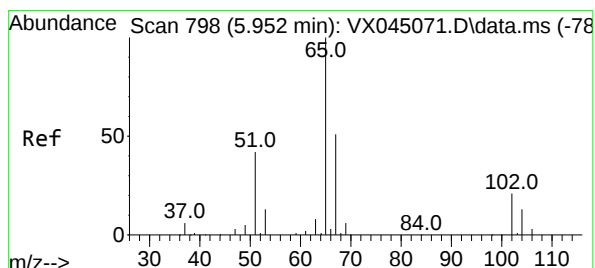
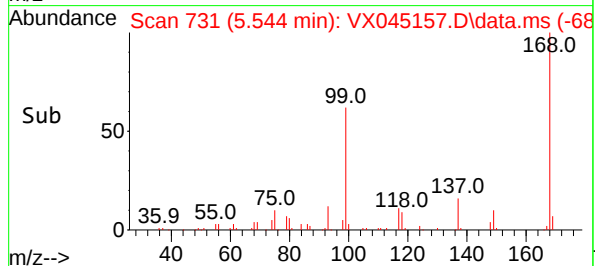
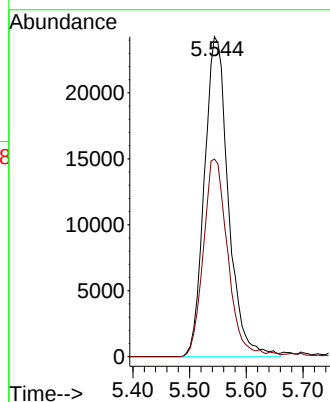
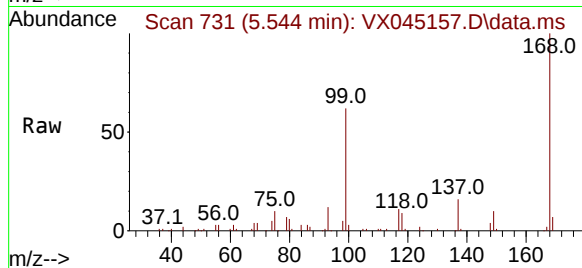




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

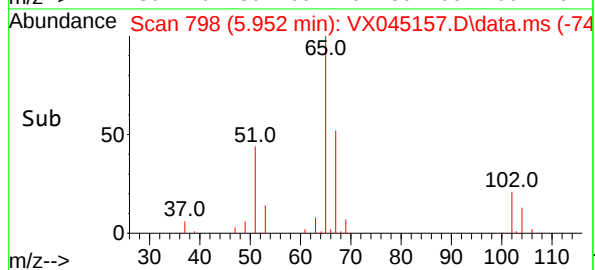
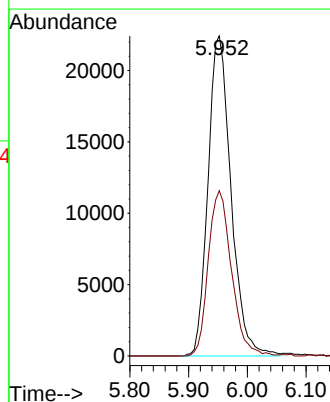
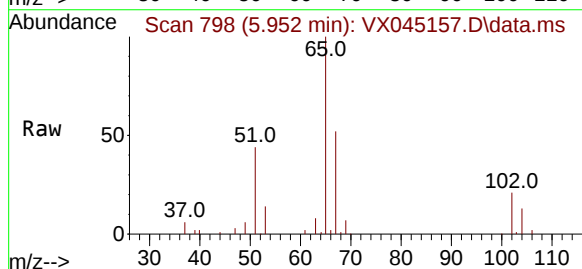
Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

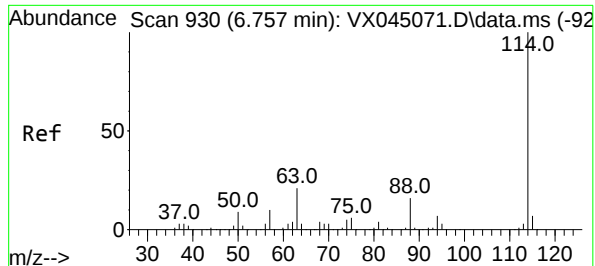
Tgt Ion:168 Resp: 71177
Ion Ratio Lower Upper
168 100
99 61.8 48.2 72.4



#33
1,2-Dichloroethane-d4
Concen: 53.917 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion: 65 Resp: 61044
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBL01

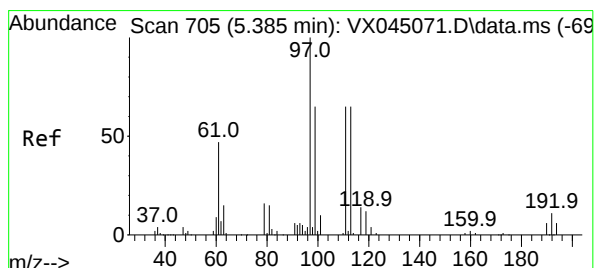
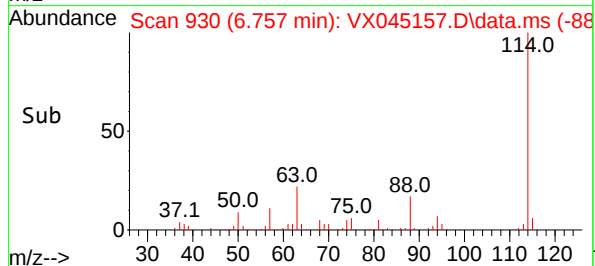
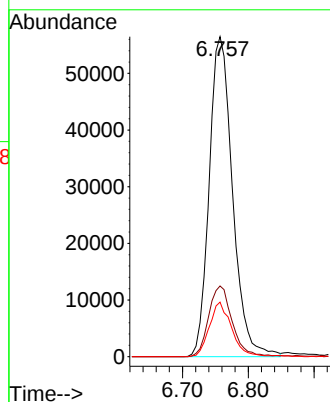
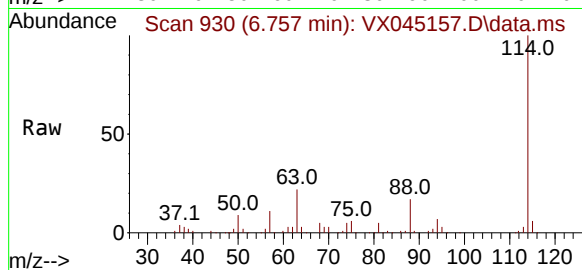
Tgt Ion:114 Resp: 139793

Ion Ratio Lower Upper

114 100

63 22.1 0.0 41.8

88 17.1 0.0 32.8



#35

Dibromofluoromethane

Concen: 52.362 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

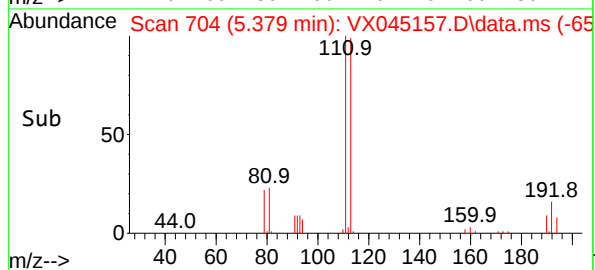
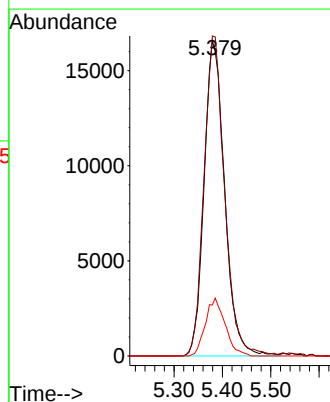
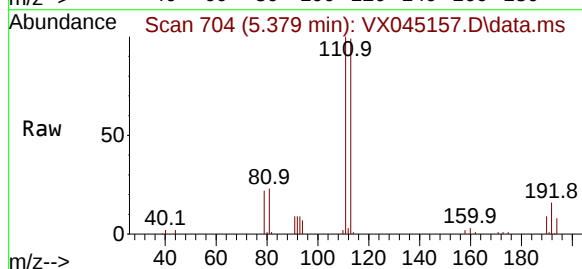
Tgt Ion:113 Resp: 48946

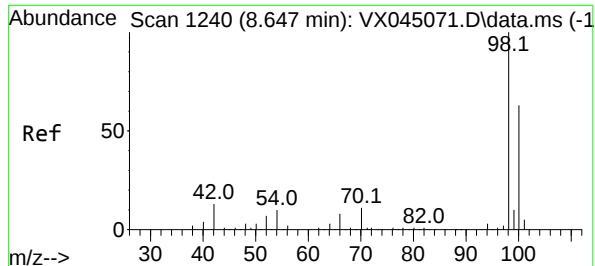
Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.6

192 17.7 14.3 21.5





#50

Toluene-d8

Concen: 52.315 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

Instrument :

MSVOA_X

ClientSampleId :

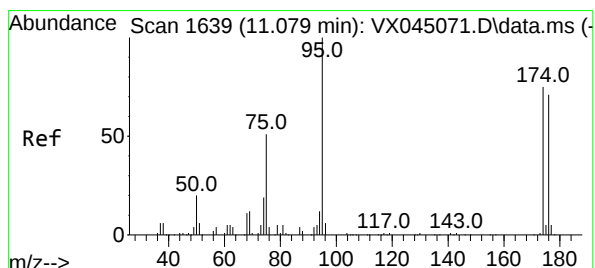
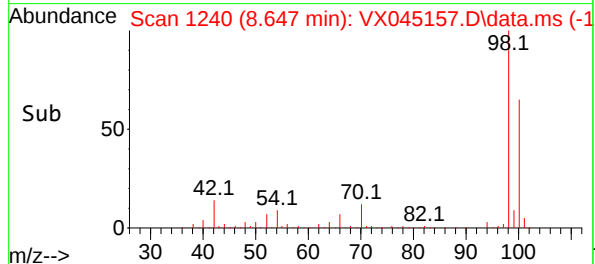
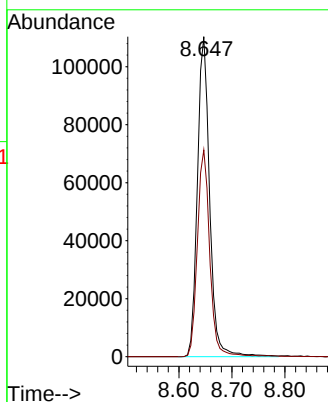
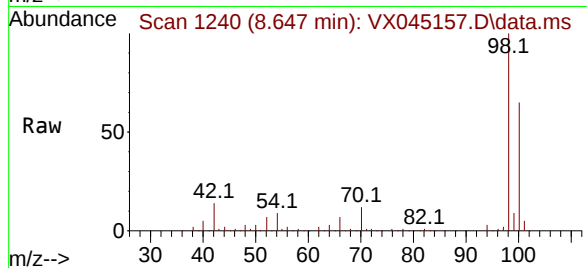
VX0306WBL01

Tgt Ion: 98 Resp: 177288

Ion Ratio Lower Upper

98 100

100 65.5 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 51.792 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

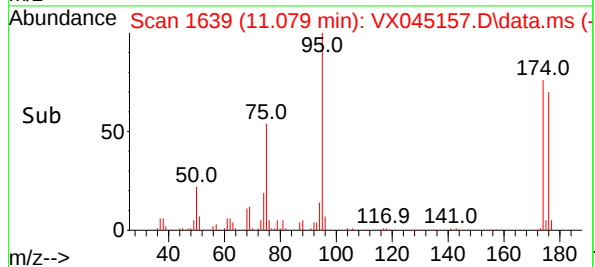
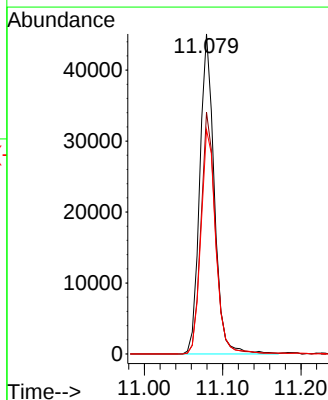
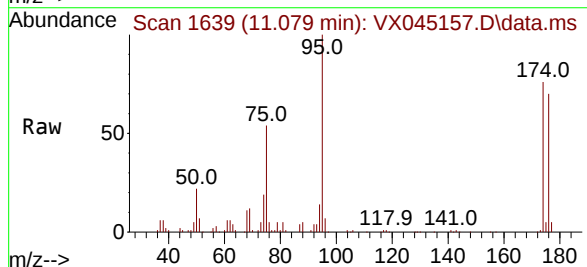
Tgt Ion: 95 Resp: 58160

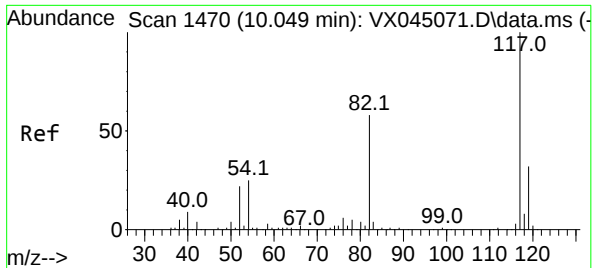
Ion Ratio Lower Upper

95 100

174 75.2 0.0 148.2

176 71.7 0.0 141.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

Instrument :

MSVOA_X

ClientSampleId :

VX0306WBL01

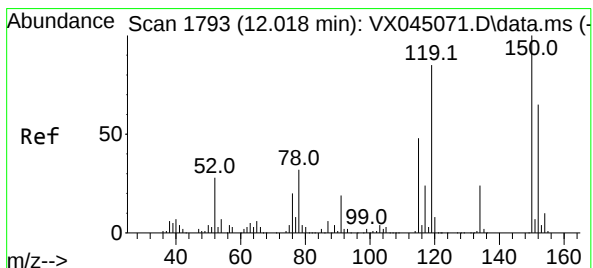
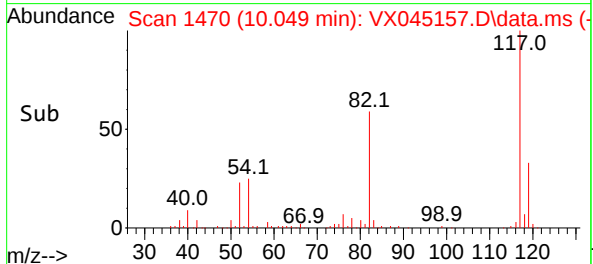
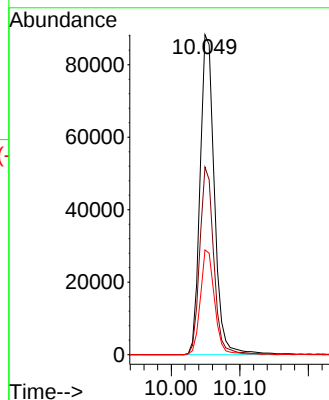
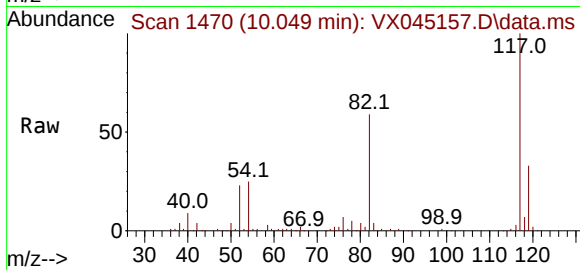
Tgt Ion:117 Resp: 129041

Ion Ratio Lower Upper

117 100

82 58.6 46.3 69.5

119 32.8 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.006 min

Lab File: VX045157.D

Acq: 06 Mar 2025 10:46

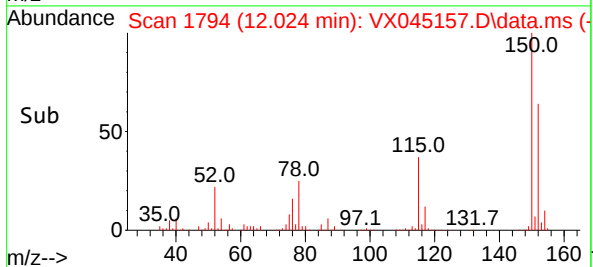
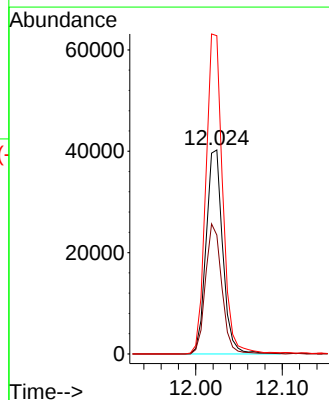
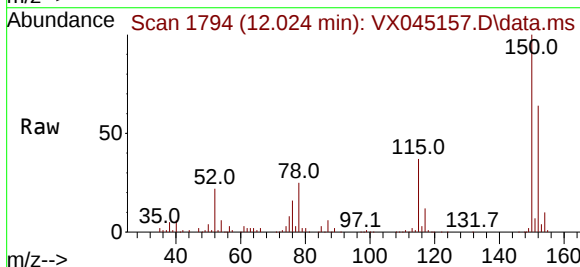
Tgt Ion:152 Resp: 53719

Ion Ratio Lower Upper

152 100

115 62.5 44.2 132.6

150 159.1 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045158.D
 Acq On : 06 Mar 2025 11:10
 Operator : JC/MD
 Sample : VX0306WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0306WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:37:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	97102	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175752	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	147757	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77517	50.187	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.380%			
35) Dibromofluoromethane	5.385	113	59755	50.846	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.700%			
50) Toluene-d8	8.647	98	214149	50.263	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.520%			
62) 4-Bromofluorobenzene	11.079	95	69431	49.179	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.360%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	25313	20.710	ug/l	96
3) Chloromethane	1.307	50	28610	19.127	ug/l	99
4) Vinyl Chloride	1.374	62	28735	19.365	ug/l	96
5) Bromomethane	1.593	94	11051	18.945	ug/l	98
6) Chloroethane	1.660	64	11910	17.401	ug/l	94
7) Trichlorofluoromethane	1.861	101	41329	21.039	ug/l	98
8) Diethyl Ether	2.136	74	15031	19.563	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.312	101	25913	22.961	ug/l	99
10) Methyl Iodide	2.440	142	28535	20.232	ug/l	97
11) Tert butyl alcohol	2.995	59	24878	85.035	ug/l	99
12) 1,1-Dichloroethene	2.306	96	25437	21.319	ug/l	96
13) Acrolein	2.239	56	32240	95.330	ug/l	97
14) Allyl chloride	2.654	41	45464	21.406	ug/l	99
15) Acrylonitrile	3.068	53	80620	102.818	ug/l	100
16) Acetone	2.392	43	70356	98.177	ug/l	100
17) Carbon Disulfide	2.495	76	56434	17.758	ug/l	100
18) Methyl Acetate	2.709	43	38789	22.500	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	83027	20.741	ug/l	98
20) Methylene Chloride	2.782	84	28513	20.086	ug/l	93
21) trans-1,2-Dichloroethene	3.081	96	25882	21.957	ug/l	92
22) Diisopropyl ether	3.763	45	92263	21.360	ug/l	92
23) Vinyl Acetate	3.721	43	379422	105.258	ug/l	99
24) 1,1-Dichloroethane	3.605	63	50777	20.975	ug/l	99
25) 2-Butanone	4.568	43	112114	103.935	ug/l	100
26) 2,2-Dichloropropane	4.464	77	31636	27.861	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	30793	21.161	ug/l	95
28) Bromochloromethane	4.897	49	20937	18.145	ug/l	98
29) Tetrahydrofuran	5.007	42	72574	100.185	ug/l	99
30) Chloroform	5.092	83	50960	21.186	ug/l	100
31) Cyclohexane	5.458	56	46499	22.128	ug/l	91
32) 1,1,1-Trichloroethane	5.379	97	40911	21.059	ug/l	98
36) 1,1-Dichloropropene	5.684	75	34442	21.370	ug/l	99
37) Ethyl Acetate	4.714	43	41415	19.942	ug/l	100
38) Carbon Tetrachloride	5.672	117	33530	20.492	ug/l	98
39) Methylcyclohexane	7.372	83	44224	22.900	ug/l	97
40) Benzene	6.031	78	109500	21.516	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045158.D
 Acq On : 06 Mar 2025 11:10
 Operator : JC/MD
 Sample : VX0306WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0306WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
 Supervised By :Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:37:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	23322	20.769	ug/l	99
42) 1,2-Dichloroethane	6.086	62	39213	21.397	ug/l	100
43) Isopropyl Acetate	6.342	43	62094	20.220	ug/l	100
44) Trichloroethene	7.123	130	24906	20.842	ug/l	97
45) 1,2-Dichloropropane	7.427	63	27481	21.002	ug/l	99
46) Dibromomethane	7.580	93	19832	21.443	ug/l	98
47) Bromodichloromethane	7.818	83	37772	20.821	ug/l	97
48) Methyl methacrylate	7.696	41	31277	20.301	ug/l	98
49) 1,4-Dioxane	7.665	88	13860	426.482	ug/l	99
51) 4-Methyl-2-Pentanone	8.573	43	215309	104.420	ug/l	99
52) Toluene	8.714	92	65138	21.814	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	30950	20.407	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	37460	21.182	ug/l	96
55) 1,1,2-Trichloroethane	9.153	97	24854	20.219	ug/l	97
56) Ethyl methacrylate	9.116	69	37529	20.084	ug/l	97
57) 1,3-Dichloropropane	9.305	76	43951	20.660	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	89701	98.410	ug/l	99
59) 2-Hexanone	9.433	43	158142	105.853	ug/l	99
60) Dibromochloromethane	9.518	129	25020	19.466	ug/l	99
61) 1,2-Dibromoethane	9.610	107	24964	20.343	ug/l	100
64) Tetrachloroethene	9.268	164	21040	22.233	ug/l	91
65) Chlorobenzene	10.079	112	67652	21.638	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	21012	20.181	ug/l	97
67) Ethyl Benzene	10.189	91	118147	21.687	ug/l	99
68) m/p-Xylenes	10.299	106	87720	43.986	ug/l	99
69) o-Xylene	10.640	106	43323	21.539	ug/l	99
70) Styrene	10.652	104	70623	21.700	ug/l	99
71) Bromoform	10.799	173	15238	19.408	ug/l #	100
73) Isopropylbenzene	10.963	105	111617	21.304	ug/l	100
74) N-amyl acetate	10.841	43	50220	20.428	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	39941	20.775	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	31293m	20.030	ug/l	
77) Bromobenzene	11.195	156	25608	20.716	ug/l	100
78) n-propylbenzene	11.305	91	126790	21.423	ug/l	100
79) 2-Chlorotoluene	11.360	91	77393	20.533	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	91126	21.511	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	7740	16.954	ug/l #	82
82) 4-Chlorotoluene	11.451	91	87322	21.257	ug/l	99
83) tert-Butylbenzene	11.713	119	91061	20.921	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	91832	21.544	ug/l	100
85) sec-Butylbenzene	11.890	105	112914	21.656	ug/l	100
86) p-Isopropyltoluene	12.006	119	90968	21.589	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	45783	20.761	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	46189	20.703	ug/l	97
89) n-Butylbenzene	12.329	91	79568	21.925	ug/l	99
90) Hexachloroethane	12.536	117	14633	19.200	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	46647	21.087	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7641	20.400	ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	26728	21.219	ug/l	99
94) Hexachlorobutadiene	13.725	225	11477	22.224	ug/l	96
95) Naphthalene	13.774	128	102859	21.254	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	28765	21.647	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

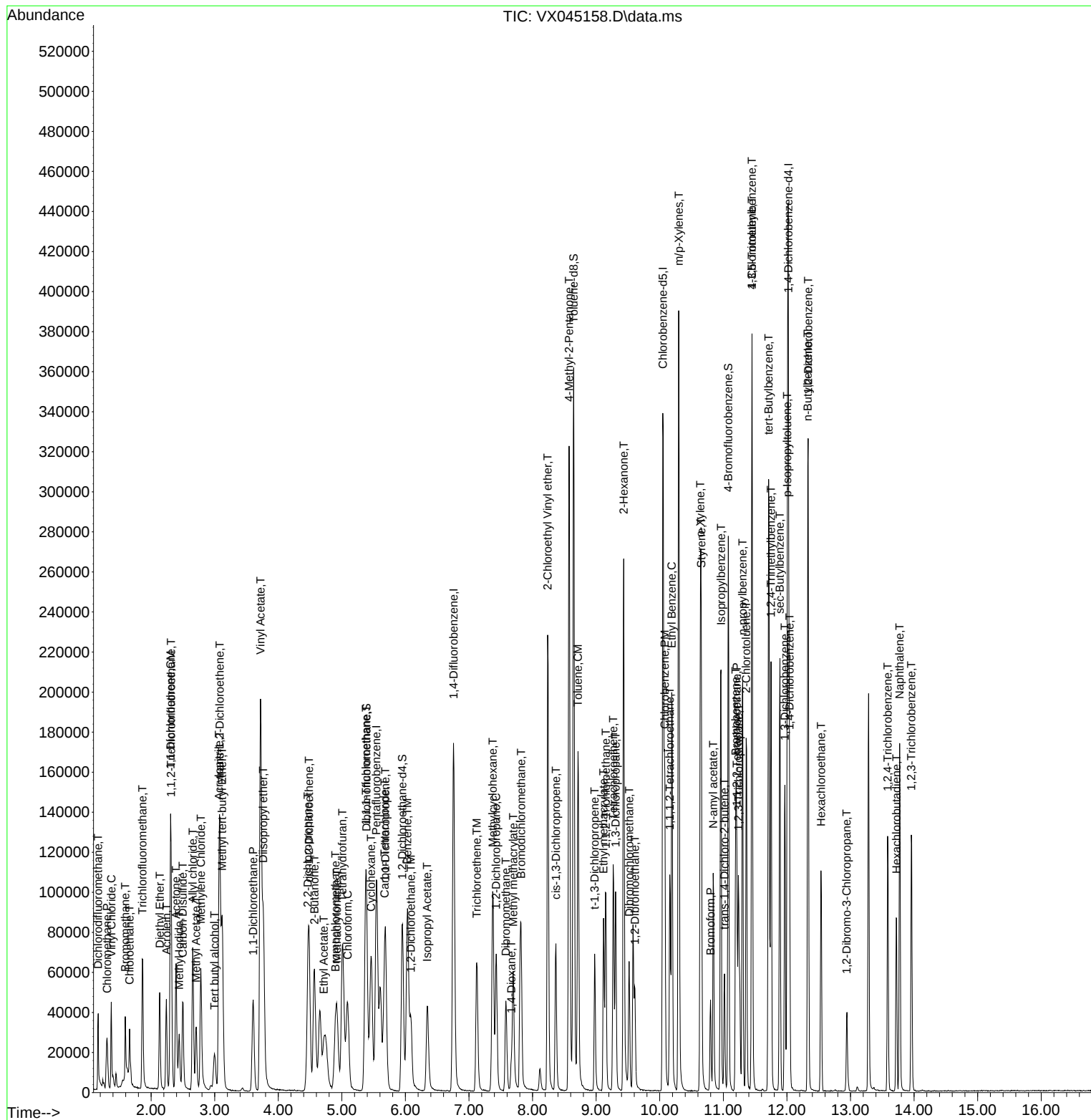
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045163.D
 Acq On : 06 Mar 2025 13:09
 Operator : JC/MD
 Sample : Q1501-05MS
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BR-05-465-030525MS

Manual Integrations APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:40:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	101112	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	179083	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	156313	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	82650	51.389	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 102.780%	
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	= 0.000%#	
50) Toluene-d8	8.646	98	230975	53.204	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 106.400%	
62) 4-Bromofluorobenzene	11.079	95	78735	54.731	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 109.460%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	60860	47.817	ug/l	98
3) Chloromethane	1.306	50	74253	47.672	ug/l	95
4) Vinyl Chloride	1.373	62	73181	47.362	ug/l	96
5) Bromomethane	1.593	94	28933	47.633	ug/l	96
6) Chloroethane	1.666	64	39700	55.703	ug/l	98
7) Trichlorofluoromethane	1.873	101	103012	50.360	ug/l	100
8) Diethyl Ether	2.129	74	36356	45.441	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.318	101	60302	51.313	ug/l	99
10) Methyl Iodide	2.440	142	78618	53.532	ug/l	98
11) Tert butyl alcohol	2.983	59	59207	194.348	ug/l	100
12) 1,1-Dichloroethene	2.312	96	86935	69.970	ug/l	94
13) Acrolein	2.239	56	17262	49.018	ug/l	98
14) Allyl chloride	2.654	41	112939	51.066	ug/l	97
15) Acrylonitrile	3.062	53	199269	244.058	ug/l	99
16) Acetone	2.385	43	266010	356.478	ug/l	100
17) Carbon Disulfide	2.501	76	102631	31.014	ug/l	97
18) Methyl Acetate	2.708	43	9884	5.506	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	208471	50.012	ug/l	99
20) Methylene Chloride	2.782	84	70867	47.942	ug/l	97
21) trans-1,2-Dichloroethene	3.086	96	62346	50.793	ug/l	96
22) Diisopropyl ether	3.763	45	220358	48.991	ug/l #	86
24) 1,1-Dichloroethane	3.605	63	126603	50.224	ug/l	99
25) 2-Butanone	4.556	43	325439	289.732	ug/l	99
26) 2,2-Dichloropropane	4.470	77	80790	68.329	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	76731	50.639	ug/l	96
28) Bromochloromethane	4.897	49	62516	52.031	ug/l	99
29) Tetrahydrofuran	5.007	42	191259	253.553	ug/l	99
30) Chloroform	5.092	83	125714	50.192	ug/l	97
31) Cyclohexane	5.464	56	109491	50.038	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	100914	49.885	ug/l	98
36) 1,1-Dichloropropene	5.684	75	83195	50.660	ug/l	98
38) Carbon Tetrachloride	5.671	117	83458	50.057	ug/l	99
39) Methylcyclohexane	7.378	83	103797	52.749	ug/l	99
40) Benzene	6.031	78	268012	51.682	ug/l	99
41) Methacrylonitrile	4.915	41	62416	54.549	ug/l	99
42) 1,2-Dichloroethane	6.080	62	96342	51.592	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045163.D
 Acq On : 06 Mar 2025 13:09
 Operator : JC/MD
 Sample : Q1501-05MS
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BR-05-465-030525MS

Manual Integrations APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:40:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

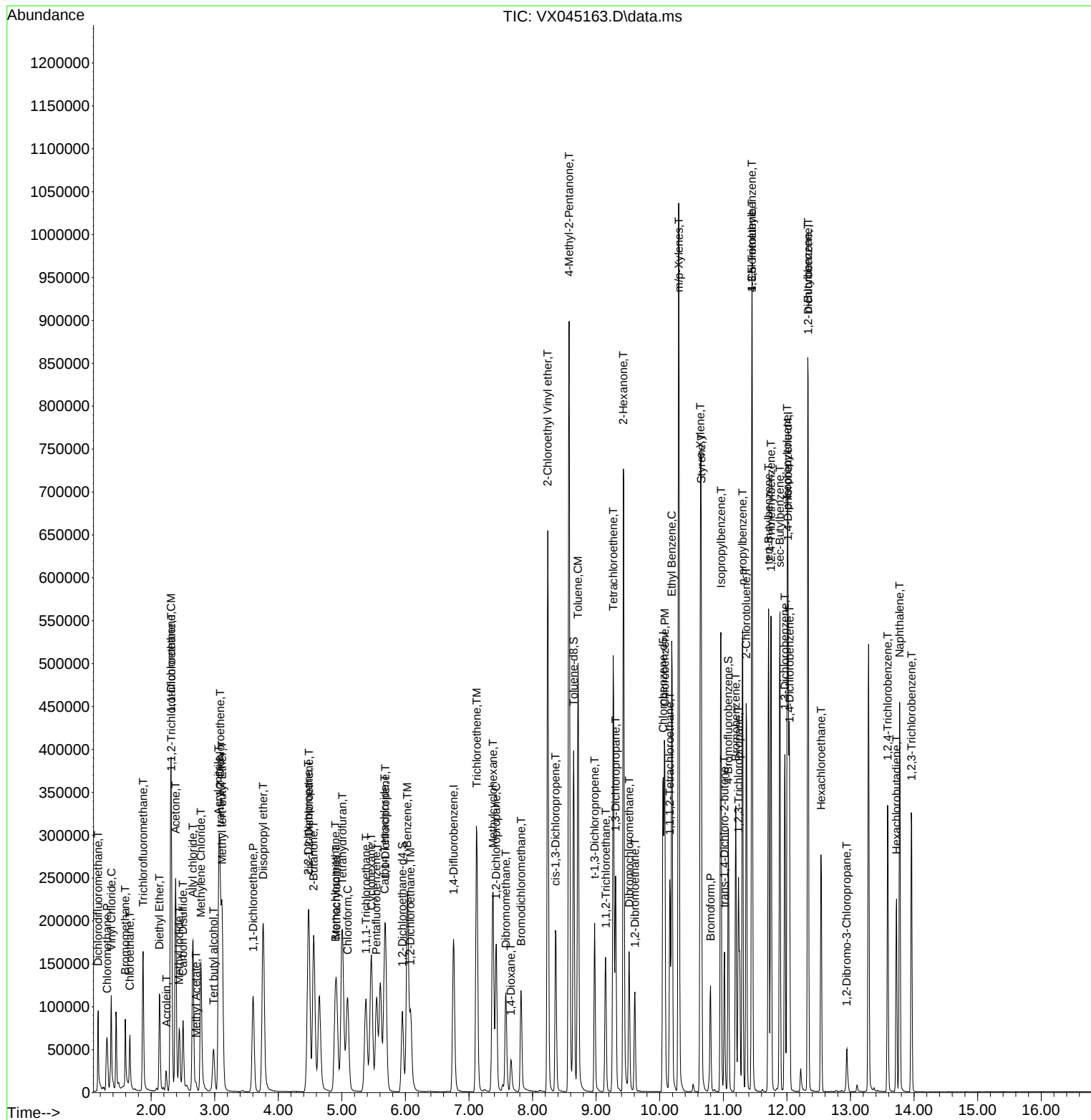
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Trichloroethene	7.122	130	115549	94.894	ug/l	99
45) 1,2-Dichloropropane	7.427	63	68277	51.209	ug/l	99
46) Dibromomethane	7.580	93	49559	52.588	ug/l	98
47) Bromodichloromethane	7.817	83	76414	41.338	ug/l	97
49) 1,4-Dioxane	7.659	88	30248	913.440	ug/l	96
51) 4-Methyl-2-Pentanone	8.573	43	568444	270.554	ug/l	100
52) Toluene	8.713	92	188456	61.939	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	84014	54.366	ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	96507	53.555	ug/l	95
55) 1,1,2-Trichloroethane	9.152	97	29577	23.613	ug/l	95
57) 1,3-Dichloropropane	9.305	76	111722	51.541	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	248600	267.664	ug/l	99
59) 2-Hexanone	9.427	43	417312	274.135	ug/l	99
60) Dibromochloromethane	9.518	129	60250	46.004	ug/l	99
61) 1,2-Dibromoethane	9.610	107	64009	51.190	ug/l	98
64) Tetrachloroethene	9.268	164	89022	88.922	ug/l	97
65) Chlorobenzene	10.079	112	170804	51.641	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.158	131	50008	45.401	ug/l	98
67) Ethyl Benzene	10.189	91	306222	53.134	ug/l	99
68) m/p-Xylenes	10.299	106	226689	107.448	ug/l	100
69) o-Xylene	10.640	106	111494	52.398	ug/l	100
70) Styrene	10.652	104	186579	54.191	ug/l	100
71) Bromoform	10.798	173	40798	49.118	ug/l #	99
73) Isopropylbenzene	10.963	105	285788	54.471	ug/l	99
76) 1,2,3-Trichloropropane	11.237	75	75260m	48.104	ug/l	
77) Bromobenzene	11.195	156	64652	52.227	ug/l	99
78) n-propylbenzene	11.304	91	334012	56.356	ug/l	99
79) 2-Chlorotoluene	11.359	91	196885	52.161	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	232590	54.826	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	23264	50.887	ug/l	92
82) 4-Chlorotoluene	11.451	91	222235	54.023	ug/l	100
83) tert-Butylbenzene	11.713	119	200520	46.003	ug/l	90
84) 1,2,4-Trimethylbenzene	11.750	105	233112	54.611	ug/l	100
85) sec-Butylbenzene	11.890	105	291621	55.852	ug/l	99
86) p-Isopropyltoluene	12.006	119	234622	55.603	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	117796	53.341	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	115251	51.585	ug/l	100
89) n-Butylbenzene	12.329	91	210010	57.787	ug/l	99
90) Hexachloroethane	12.536	117	38828	50.874	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	114665	51.761	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	9203	24.536	ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	68791	54.535	ug/l	100
94) Hexachlorobutadiene	13.725	225	28043	54.226	ug/l	99
95) Naphthalene	13.774	128	265803	54.845	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	70129	52.700	ug/l	97

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

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045164.D
 Acq On : 06 Mar 2025 13:33
 Operator : JC/MD
 Sample : Q1501-06MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BR-05-465-030525MSD

Quant Time: Mar 07 00:41:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	100565	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	182698	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	154927	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68360	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	78636	49.159	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.320%
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	8.647	98	212901	48.071	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.140%
62) 4-Bromofluorobenzene	11.079	95	71643	48.816	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.640%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	52592	41.546	ug/l	96
3) Chloromethane	1.307	50	67681	43.689	ug/l	100
4) Vinyl Chloride	1.374	62	66508	43.277	ug/l	97
5) Bromomethane	1.593	94	27968	46.294	ug/l	96
6) Chloroethane	1.672	64	37111	52.353	ug/l	99
7) Trichlorofluoromethane	1.874	101	94521	46.461	ug/l	100
8) Diethyl Ether	2.136	74	36224	45.522	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	54209	46.379	ug/l	99
10) Methyl Iodide	2.447	142	73533	50.342	ug/l	99
11) Tert butyl alcohol	2.977	59	59447	196.197	ug/l	99
12) 1,1-Dichloroethene	2.313	96	90255	73.038	ug/l	96
13) Acrolein	2.233	56	16708	47.702	ug/l	98
14) Allyl chloride	2.660	41	111224	50.564	ug/l	98
15) Acrylonitrile	3.062	53	192121	236.583	ug/l	100
16) Acetone	2.380	43	261029	351.705	ug/l	100
17) Carbon Disulfide	2.502	76	86177	26.183	ug/l	99
18) Methyl Acetate	2.709	43	4472	2.505	ug/l #	88
19) Methyl tert-butyl Ether	3.117	73	204923	49.428	ug/l	100
20) Methylene Chloride	2.782	84	68883	46.854	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	60413	49.486	ug/l	97
22) Diisopropyl ether	3.757	45	212844	47.578	ug/l #	84
24) 1,1-Dichloroethane	3.605	63	122367	48.807	ug/l	100
25) 2-Butanone	4.556	43	316746	283.527	ug/l	99
26) 2,2-Dichloropropane	4.465	77	77718	66.088	ug/l	97
27) cis-1,2-Dichloroethene	4.489	96	73559	48.810	ug/l	96
28) Bromochloromethane	4.891	49	56433	47.224	ug/l	100
29) Tetrahydrofuran	5.001	42	186941	249.177	ug/l	99
30) Chloroform	5.086	83	121146	48.631	ug/l	99
31) Cyclohexane	5.464	56	98498	45.259	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	99374	49.391	ug/l	98
36) 1,1-Dichloropropene	5.690	75	80938	48.310	ug/l	100
38) Carbon Tetrachloride	5.672	117	80499	47.327	ug/l	99
39) Methylcyclohexane	7.373	83	90498	45.080	ug/l	98
40) Benzene	6.031	78	259017	48.959	ug/l	98
41) Methacrylonitrile	4.916	41	59324	50.821	ug/l	97
42) 1,2-Dichloroethane	6.080	62	94946	49.838	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045164.D
 Acq On : 06 Mar 2025 13:33
 Operator : JC/MD
 Sample : Q1501-06MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BR-05-465-030525MSD

Manual Integrations APPROVED

Reviewed By : John Carlone 03/10/2025
 Supervised By : Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:41:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Trichloroethene	7.123	130	113651	91.488	ug/l	99
45) 1,2-Dichloropropane	7.428	63	65772	48.354	ug/l	98
46) Dibromomethane	7.580	93	48250	50.186	ug/l	99
47) Bromodichloromethane	7.818	83	65772	34.877	ug/l	98
49) 1,4-Dioxane	7.659	88	29006	858.601	ug/l #	94
51) 4-Methyl-2-Pentanone	8.574	43	554203	258.557	ug/l	99
52) Toluene	8.714	92	180949	58.295	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	80501	51.062	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	92567	50.352	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	19996	15.648	ug/l	97
57) 1,3-Dichloropropane	9.305	76	107755	48.727	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	266560	281.323	ug/l	99
59) 2-Hexanone	9.427	43	411304	264.842	ug/l	99
60) Dibromochloromethane	9.519	129	54948	41.126	ug/l	99
61) 1,2-Dibromoethane	9.610	107	62043	48.636	ug/l	100
64) Tetrachloroethene	9.269	164	84629	85.290	ug/l	99
65) Chlorobenzene	10.079	112	163317	49.819	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	45565	41.737	ug/l	98
67) Ethyl Benzene	10.189	91	291242	50.987	ug/l	99
68) m/p-Xylenes	10.299	106	215055	102.845	ug/l	100
69) o-Xylene	10.640	106	106073	50.296	ug/l	99
70) Styrene	10.653	104	175907	51.549	ug/l	99
71) Bromoform	10.799	173	39363	47.814	ug/l #	99
73) Isopropylbenzene	10.957	105	270349	50.668	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	73469m	46.175	ug/l	
77) Bromobenzene	11.195	156	62298	49.485	ug/l	100
78) n-propylbenzene	11.299	91	313137	51.952	ug/l	99
79) 2-Chlorotoluene	11.360	91	187387	48.816	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	219930	50.977	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	22368	48.110	ug/l	93
82) 4-Chlorotoluene	11.451	91	210926	50.418	ug/l	100
83) tert-Butylbenzene	11.713	119	191439	43.186	ug/l	90
84) 1,2,4-Trimethylbenzene	11.750	105	224549	51.727	ug/l	100
85) sec-Butylbenzene	11.890	105	274996	51.789	ug/l	99
86) p-Isopropyltoluene	12.006	119	222566	51.865	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	111489	49.643	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	109759	48.307	ug/l	99
89) n-Butylbenzene	12.329	91	198557	53.723	ug/l	99
90) Hexachloroethane	12.536	117	38087	49.070	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	110193	48.912	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6556	17.187	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	64085	49.957	ug/l	99
94) Hexachlorobutadiene	13.725	225	25380	48.257	ug/l	98
95) Naphthalene	13.774	128	258663	52.481	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	68914	50.923	ug/l	98

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

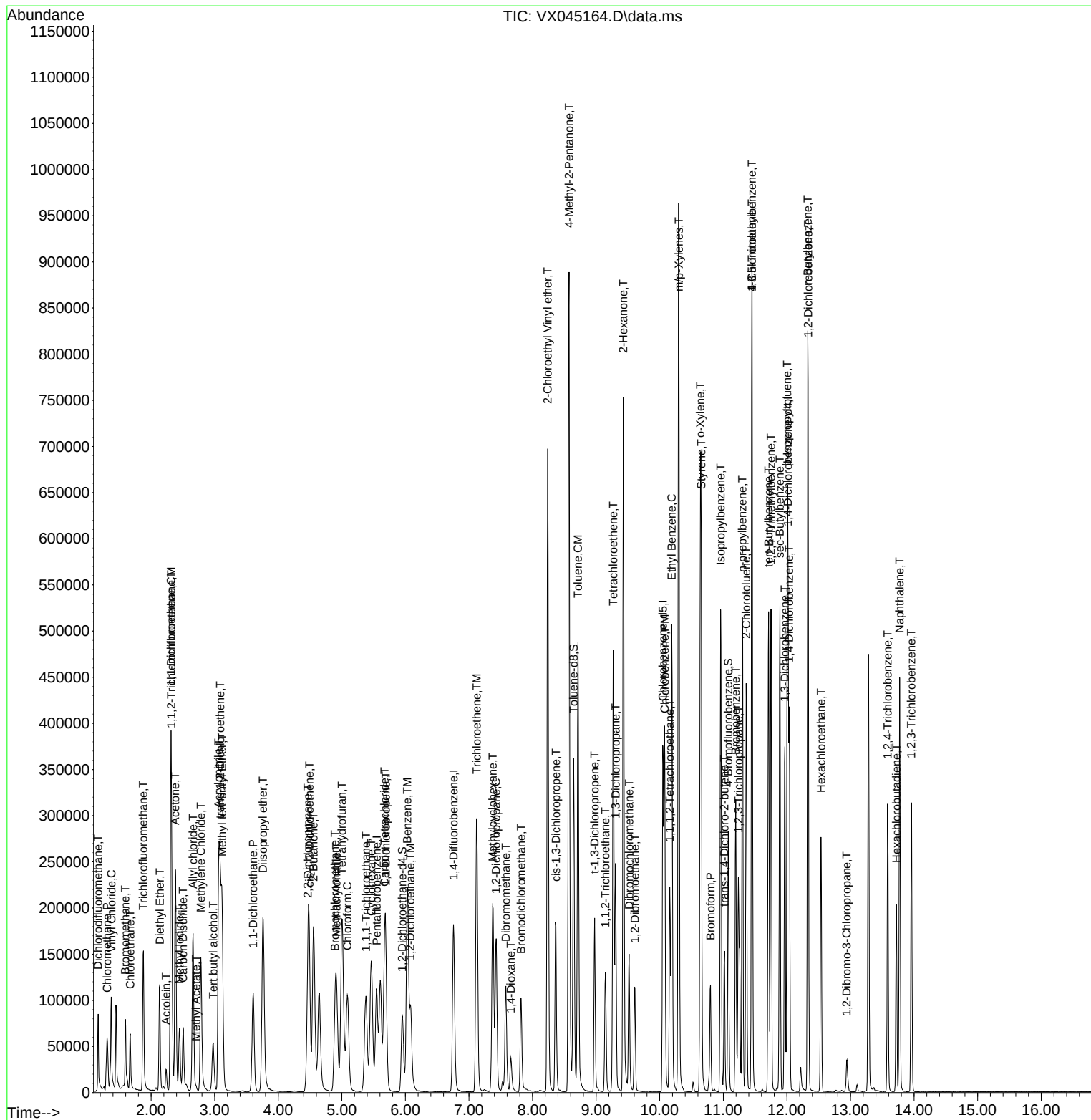
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\  
Data File : VX045164.D  
Acq On    : 06 Mar 2025  13:33  
Operator  : JC/MD  
Sample    : Q1501-06MSD  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 12   Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:41:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VX022825	Instrument	MSVOA_x
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045068.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	1,4-Dichlorobenzene	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Carbon Tetrachloride	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Chloroethane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Ethyl Acetate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methacrylonitrile	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methyl methacrylate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	Tert butyl alcohol	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC020	VX045070.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:21 AM	MMDadoda	2/28/2025 11:09:33 AM	Peak Integrated by Software
VSTDICCC050	VX045071.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:25 AM	MMDadoda	2/28/2025 11:09:35 AM	Peak Integrated by Software
VSTDICC100	VX045072.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:30 AM	MMDadoda	2/28/2025 11:09:37 AM	Peak Integrated by Software
VSTDICC150	VX045073.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:33 AM	MMDadoda	2/28/2025 11:09:42 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX022825

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX045075.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:38 AM	MMDadoda	2/28/2025 11:09:44 AM	Peak Integrated by Software
VSTDCCC050	VX045077.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045077.D	Tert butyl alcohol	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045098.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:59 AM	MMDadoda	3/3/2025 1:49:50 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX030625

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045155.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:16 AM	MMDadoda	3/10/2025 2:26:53 PM	Peak Integrated by Software
VX0306WBS01	VX045158.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:21 AM	MMDadoda	3/10/2025 2:26:53 PM	Peak Integrated by Software
Q1501-05MS	VX045163.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:30 AM	MMDadoda	3/10/2025 2:26:56 PM	Peak Integrated by Software
Q1501-06MSD	VX045164.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:34 AM	MMDadoda	3/10/2025 2:26:57 PM	Peak Integrated by Software
VSTDCCC050	VX045181.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:42:04 AM	MMDadoda	3/10/2025 2:27:00 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM
SubDirectory	VX022825	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133187,VP133189		
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199		
CCC	VP133188,VP133190		
Internal Standard/PEM			
ICV/I.BLK	VP133200		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045067.D	28 Feb 2025 01:03	JC/MD	Ok
2	VSTDIC001	VX045068.D	28 Feb 2025 01:27	JC/MD	Ok,M
3	VSTDIC005	VX045069.D	28 Feb 2025 02:13	JC/MD	Ok,M
4	VSTDIC020	VX045070.D	28 Feb 2025 02:37	JC/MD	Ok,M
5	VSTDIC050	VX045071.D	28 Feb 2025 03:00	JC/MD	Ok,M
6	VSTDIC100	VX045072.D	28 Feb 2025 03:23	JC/MD	Ok,M
7	VSTDIC150	VX045073.D	28 Feb 2025 03:47	JC/MD	Ok,M
8	IBLK	VX045074.D	28 Feb 2025 04:10	JC/MD	Ok
9	VSTDICV050	VX045075.D	28 Feb 2025 04:33	JC/MD	Ok,M
10	BFB	VX045076.D	28 Feb 2025 10:03	JC/MD	Ok
11	VSTDIC050	VX045077.D	28 Feb 2025 10:32	JC/MD	Ok,M
12	VX0228MBL01	VX045078.D	28 Feb 2025 11:00	JC/MD	Ok
13	VX0228WBL01	VX045079.D	28 Feb 2025 11:23	JC/MD	Ok
14	VX0228WBS01	VX045080.D	28 Feb 2025 11:46	JC/MD	Ok,M
15	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13	JC/MD	Ok,M
16	Q1401-03	VX045082.D	28 Feb 2025 12:37	JC/MD	Ok
17	Q1401-06	VX045083.D	28 Feb 2025 13:00	JC/MD	Ok
18	Q1423-01	VX045084.D	28 Feb 2025 13:23	JC/MD	Ok
19	Q1423-03	VX045085.D	28 Feb 2025 13:47	JC/MD	Ok
20	Q1403-01	VX045086.D	28 Feb 2025 14:10	JC/MD	Ok
21	Q1403-02	VX045087.D	28 Feb 2025 14:33	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM
SubDirectory	VX022825	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133187,VP133189		
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199		
CCC	VP133188,VP133190		
Internal Standard/PEM			
ICV/I.BLK	VP133200		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1435-01	VX045088.D	28 Feb 2025 14:57	JC/MD	Ok
23	Q1403-04	VX045089.D	28 Feb 2025 15:20	JC/MD	Ok
24	Q1462-02	VX045090.D	28 Feb 2025 15:44	JC/MD	Ok
25	Q1469-01	VX045091.D	28 Feb 2025 16:07	JC/MD	Ok
26	Q1469-02	VX045092.D	28 Feb 2025 16:31	JC/MD	Ok
27	Q1469-03	VX045093.D	28 Feb 2025 16:54	JC/MD	Ok
28	Q1469-04	VX045094.D	28 Feb 2025 17:17	JC/MD	Ok
29	Q1403-03	VX045095.D	28 Feb 2025 17:41	JC/MD	Ok
30	Q1462-01	VX045096.D	28 Feb 2025 18:04	JC/MD	Ok,M
31	IBLK	VX045097.D	28 Feb 2025 18:27	JC/MD	Ok
32	VSTDCCC050	VX045098.D	28 Feb 2025 18:50	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM
Supervise By	Maresh Dadoda	Supervise On	3/10/2025 2:27:03 PM
SubDirectory	VX030625	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133226		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133227,VP133228		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045154.D	06 Mar 2025 09:09	JC/MD	Ok
2	VSTDCCC050	VX045155.D	06 Mar 2025 09:56	JC/MD	Ok,M
3	VX0306MBL01	VX045156.D	06 Mar 2025 10:23	JC/MD	Ok
4	VX0306WBL01	VX045157.D	06 Mar 2025 10:46	JC/MD	Ok
5	VX0306WBS01	VX045158.D	06 Mar 2025 11:10	JC/MD	Ok,M
6	Q1501-01	VX045159.D	06 Mar 2025 11:36	JC/MD	Ok
7	Q1501-02	VX045160.D	06 Mar 2025 12:00	JC/MD	Ok
8	Q1488-14DL	VX045161.D	06 Mar 2025 12:23	JC/MD	Ok,M
9	Q1501-04	VX045162.D	06 Mar 2025 12:46	JC/MD	ReRun
10	Q1501-05MS	VX045163.D	06 Mar 2025 13:09	JC/MD	Ok,M
11	Q1501-06MSD	VX045164.D	06 Mar 2025 13:33	JC/MD	Ok,M
12	Q1484-06	VX045165.D	06 Mar 2025 13:56	JC/MD	Ok
13	Q1494-01	VX045166.D	06 Mar 2025 14:19	JC/MD	Ok
14	Q1501-04RE	VX045167.D	06 Mar 2025 14:43	JC/MD	Confirms
15	PB166989TB	VX045168.D	06 Mar 2025 15:06	JC/MD	Ok
16	Q1481-02	VX045169.D	06 Mar 2025 15:29	JC/MD	Ok,M
17	Q1488-02	VX045170.D	06 Mar 2025 15:52	JC/MD	Ok
18	Q1488-04	VX045171.D	06 Mar 2025 16:16	JC/MD	Ok
19	Q1488-06	VX045172.D	06 Mar 2025 16:39	JC/MD	Ok
20	Q1488-08	VX045173.D	06 Mar 2025 17:02	JC/MD	Ok
21	Q1488-10	VX045174.D	06 Mar 2025 17:25	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM
Supervise By	Maresh Dadoda	Supervise On	3/10/2025 2:27:03 PM
SubDirectory	VX030625	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133226		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133227,VP133228		

22	Q1488-12	VX045175.D	06 Mar 2025 17:49	JC/MD	Ok
23	Q1490-02	VX045176.D	06 Mar 2025 18:12	JC/MD	Ok
24	Q1494-04	VX045177.D	06 Mar 2025 18:35	JC/MD	Ok
25	Q1494-06	VX045178.D	06 Mar 2025 18:59	JC/MD	Ok
26	Q1494-08	VX045179.D	06 Mar 2025 19:22	JC/MD	Ok
27	Q1478-15	VX045180.D	06 Mar 2025 19:45	JC/MD	Ok
28	VSTDCCC050	VX045181.D	06 Mar 2025 20:09	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM
SubDirectory	VX022825	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133187,VP133189		
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199		
CCC	VP133188,VP133190		
Internal Standard/PEM			
ICV/I.BLK	VP133200		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045067.D	28 Feb 2025 01:03		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX045068.D	28 Feb 2025 01:27		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045069.D	28 Feb 2025 02:13		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045070.D	28 Feb 2025 02:37		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045071.D	28 Feb 2025 03:00		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045072.D	28 Feb 2025 03:23		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX045073.D	28 Feb 2025 03:47		JC/MD	Ok,M
8	IBLK	IBLK	VX045074.D	28 Feb 2025 04:10		JC/MD	Ok
9	VSTDICV050	ICVVX022825	VX045075.D	28 Feb 2025 04:33		JC/MD	Ok,M
10	BFB	BFB	VX045076.D	28 Feb 2025 10:03		JC/MD	Ok
11	VSTDCCC050	VSTDCCC050	VX045077.D	28 Feb 2025 10:32	V12668	JC/MD	Ok,M
12	VX0228MBL01	VX0228MBL01	VX045078.D	28 Feb 2025 11:00		JC/MD	Ok
13	VX0228WBL01	VX0228WBL01	VX045079.D	28 Feb 2025 11:23		JC/MD	Ok
14	VX0228WBS01	VX0228WBS01	VX045080.D	28 Feb 2025 11:46		JC/MD	Ok,M
15	VX0228WBSD01	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13		JC/MD	Ok,M
16	Q1401-03	BP-VPB-192-GW-840-8	VX045082.D	28 Feb 2025 12:37	vial B pH<2	JC/MD	Ok
17	Q1401-06	BP-VPB-192-GW-900-9	VX045083.D	28 Feb 2025 13:00	vial B pH<2	JC/MD	Ok
18	Q1423-01	BP-VPB-192-TB-20250	VX045084.D	28 Feb 2025 13:23	vial B pH<2 TB	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX022825

Review By	Maresh Dadoda	Review On	2/28/2025 11:09:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM
SubDirectory	VX022825	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133187,VP133189		
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199		
CCC	VP133188,VP133190		
Internal Standard/PEM			
ICV/I.BLK	VP133200		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1423-03	BP-VPB-192-EB-20250	VX045085.D	28 Feb 2025 13:47	vial B pH<2 EB	JC/MD	Ok
20	Q1403-01	Storage-Blank-SOIL-RE	VX045086.D	28 Feb 2025 14:10	vial B pH<2	JC/MD	Ok
21	Q1403-02	Storage-Blank-WATER-	VX045087.D	28 Feb 2025 14:33	vial B pH<2	JC/MD	Ok
22	Q1435-01	286107	VX045088.D	28 Feb 2025 14:57	vial A pH<2	JC/MD	Ok
23	Q1403-04	Storage-Blank-SAMPLE	VX045089.D	28 Feb 2025 15:20	vial B pH<2	JC/MD	Ok
24	Q1462-02	FB	VX045090.D	28 Feb 2025 15:44	vial A pH<2 FB	JC/MD	Ok
25	Q1469-01	Storage-Blank-SOIL-RE	VX045091.D	28 Feb 2025 16:07	vial A pH<2	JC/MD	Ok
26	Q1469-02	Storage-Blank-WATER-	VX045092.D	28 Feb 2025 16:31	vial A pH<2	JC/MD	Ok
27	Q1469-03	Storage-Blank-WATER-	VX045093.D	28 Feb 2025 16:54	vial A pH<2	JC/MD	Ok
28	Q1469-04	Storage-Blank-SAMPLE	VX045094.D	28 Feb 2025 17:17	vial A pH<2	JC/MD	Ok
29	Q1403-03	Storage-Blank-WATER-	VX045095.D	28 Feb 2025 17:41	vial B pH<2	JC/MD	Ok
30	Q1462-01	MW2	VX045096.D	28 Feb 2025 18:04	vial A pH<2	JC/MD	Ok,M
31	IBLK	IBLK	VX045097.D	28 Feb 2025 18:27		JC/MD	Ok
32	VSTDCCC050	VSTDCCC050EC	VX045098.D	28 Feb 2025 18:50		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM
Supervise By	Maresh Dadoda	Supervise On	3/10/2025 2:27:03 PM
SubDirectory	VX030625	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133226		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133227,VP133228		

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045154.D	06 Mar 2025 09:09		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045155.D	06 Mar 2025 09:56	pH#Lot#V12668	JC/MD	Ok,M
3	VX0306MBL01	VX0306MBL01	VX045156.D	06 Mar 2025 10:23		JC/MD	Ok
4	VX0306WBL01	VX0306WBL01	VX045157.D	06 Mar 2025 10:46		JC/MD	Ok
5	VX0306WBS01	VX0306WBS01	VX045158.D	06 Mar 2025 11:10		JC/MD	Ok,M
6	Q1501-01	MW-16B-87.5-030425	VX045159.D	06 Mar 2025 11:36	vial A pH<2	JC/MD	Ok
7	Q1501-02	MW-16B-87.5-030425	VX045160.D	06 Mar 2025 12:00	vial A pH<2	JC/MD	Ok
8	Q1488-14DL	ENV-104-GW01DL	VX045161.D	06 Mar 2025 12:23	vial B pH<2	JC/MD	Ok,M
9	Q1501-04	BR-05-465-030525	VX045162.D	06 Mar 2025 12:46	vial A pH<2 Surrogate Fail	JC/MD	ReRun
10	Q1501-05MS	BR-05-465-030525MS	VX045163.D	06 Mar 2025 13:09	vial A pH<2	JC/MD	Ok,M
11	Q1501-06MSD	BR-05-465-030525MSD	VX045164.D	06 Mar 2025 13:33	vial A pH<2	JC/MD	Ok,M
12	Q1484-06	TR-OTR-COMP-01	VX045165.D	06 Mar 2025 13:56	vial A pH#5.0	JC/MD	Ok
13	Q1494-01	PURGE-WATER	VX045166.D	06 Mar 2025 14:19	vial B pH<2	JC/MD	Ok
14	Q1501-04RE	BR-05-465-030525RE	VX045167.D	06 Mar 2025 14:43	vial B pH<2 Surrogate Fail	JC/MD	Confirms
15	PB166989TB	PB166989TB	VX045168.D	06 Mar 2025 15:06		JC/MD	Ok
16	Q1481-02	WC-K1311	VX045169.D	06 Mar 2025 15:29	vial A pH#5.0	JC/MD	Ok,M
17	Q1488-02	ENV-101-SB01	VX045170.D	06 Mar 2025 15:52	vial A pH#5.0	JC/MD	Ok
18	Q1488-04	ENV-101-SB02	VX045171.D	06 Mar 2025 16:16	vial A pH#5.0	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM
Supervise By	Maresh Dadoda	Supervise On	3/10/2025 2:27:03 PM
SubDirectory	VX030625	HP Acquire Method	HP Processing Method 82X022825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133226		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133227,VP133228		

19	Q1488-06	ENV-102-SB01	VX045172.D	06 Mar 2025 16:39	vial A pH#5.0	JC/MD	Ok
20	Q1488-08	ENV-102-SB02	VX045173.D	06 Mar 2025 17:02	vial A pH#5.0	JC/MD	Ok
21	Q1488-10	ENV-104-SB01	VX045174.D	06 Mar 2025 17:25	vial A pH#5.0	JC/MD	Ok
22	Q1488-12	ENV-104-SB02	VX045175.D	06 Mar 2025 17:49	vial A pH#5.0	JC/MD	Ok
23	Q1490-02	CLAY-SLUDGE-DRUM	VX045176.D	06 Mar 2025 18:12	vial A pH#5.0	JC/MD	Ok
24	Q1494-04	ASPHALT-SOIL	VX045177.D	06 Mar 2025 18:35	vial A pH#5.0	JC/MD	Ok
25	Q1494-06	SOIL	VX045178.D	06 Mar 2025 18:59	vial A pH#5.0	JC/MD	Ok
26	Q1494-08	SOIL-COMP	VX045179.D	06 Mar 2025 19:22	vial A pH#5.0	JC/MD	Ok
27	Q1478-15	IDW-SO-DRUM-582-02	VX045180.D	06 Mar 2025 19:45	vial A pH#5.0	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX045181.D	06 Mar 2025 20:09		JC/MD	Ok,M

M : Manual Integration

A
B
C
D
E
F
G
H
I
J
K

LAB CHRONICLE

OrderID:	Q1488	OrderDate:	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-02	ENV-101-SB01	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25
Q1488-04	ENV-101-SB02	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25
Q1488-06	ENV-102-SB01	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25
Q1488-08	ENV-102-SB02	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25
Q1488-10	ENV-104-SB01	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25
Q1488-12	ENV-104-SB02	TCLP	TCLP VOA	8260D	03/04/25		03/06/25	03/04/25

SOP ID :	M1311-TCLP-15	
SDG No :	N/A	Start Prep Date : 03/05/2025 Time : 16:30
Welgh By :	JP	End Prep Date : 03/06/2025 Time : 10:35
Balance ID :	WC SC-7	Combination Ratio : 20
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch : N/A <u>VN030625</u>
Extraction By :	JP	Initial Room Temperature: 24 °C
Filter By :	JP	Final Room Temperature: 22 °C
Pipette ID :	WC	TCLP Technician Signature : <u>JP</u>
Tumbler ID :	ZHE-1 / ZHE-2	Supervisor By : <u>12</u>
TCLP Filter ID :	50223706	

Standarded 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	WP110802
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	23237	N/A

Extraction Conformance/Non-Conformance Comments:

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/06/25 11:35	<u>JP</u> <u>100C Lab</u>	<u>MD</u> <u>100C Lab</u>
	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
PB166989TB	LEB989	14	N/A	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1478-15	IDW-SO-DRUM-582-022825	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1481-02	WC-K1311	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1484-06	TR-OTR-COMP-01	03	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-02	ENV-101-SB01	04	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-04	ENV-101-SB02	05	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-06	ENV-102-SB01	06	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-08	ENV-102-SB02	07	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-10	ENV-104-SB01	08	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1488-12	ENV-104-SB02	09	25.05	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1490-02	CLAY-SLUDGE-DRUMS	10	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1494-04	ASPHALT-SOIL	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1494-06	SOIL	12	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1494-08	SOIL-COMP	13	25.02	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
PB166989TB	LEB989	N/A	N/A	N/A	N/A	N/A	N/A
Q1478-15	IDW-SO-DRUM-582-022825	N/A	N/A	N/A	N/A	100	N/A
Q1481-02	WC-K1311	N/A	N/A	N/A	N/A	100	N/A
Q1484-06	TR-OTR-COMP-01	N/A	N/A	N/A	N/A	100	N/A
Q1488-02	ENV-101-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-04	ENV-101-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-06	ENV-102-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-08	ENV-102-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1488-10	ENV-104-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1488-12	ENV-104-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1490-02	CLAY-SLUDGE-DRUMS	N/A	N/A	N/A	N/A	100	N/A
Q1494-04	ASPHALT-SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-06	SOIL	N/A	N/A	N/A	N/A	100	N/A
Q1494-08	SOIL-COMP	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE Q1490

WorkList ID : 188041

Department : TCLP Extraction

Date : 03-05-2025 12:45:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1478-15	IDW-SO-DRUM-582-022825	Solid	TCLP ZHE Extraction	Cool 4 deg C	JACO05	H31	02/28/2025	1311 ZHE
Q1481-02	WC-K1311	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	H31	03/04/2025	1311 ZHE
Q1484-06	TR-OTR-COMP-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	H31	03/04/2025	1311 ZHE
Q1488-02	ENV-101-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-04	ENV-101-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-06	ENV-102-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-08	ENV-102-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-10	ENV-104-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1488-12	ENV-104-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	H31	03/04/2025	1311 ZHE
Q1490-02	CLAY-SLUDGE-DRUMS	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	I21	03/05/2025	1311 ZHE
Q1494-04	ASPHALT-SOIL	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311 ZHE
Q1494-06	SOIL	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311 ZHE
Q1494-08	SOIL-COMP	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	I31	03/05/2025	1311 ZHE

Date/Time 03/05/25 15:30
 Raw Sample Received by: Jo WCC
 Raw Sample Relinquished by: Jo WCC

Date/Time 03/05/25 17:30
 Raw Sample Received by: Jo WCC
 Raw Sample Relinquished by: Jo WCC