

Hit Summary Sheet
SW-846

SDG No.: Q2818

Client: Earth Engineering Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q2818-01	B-2-5-1 B-2-5-1	SOIL	Acetone	13.9	J	5.00	26.6	ug/Kg
			Total Voc :	13.9				
			Total Concentration:	13.9				
Client ID: Q2818-02	B-3-5-2 B-3-5-2	SOIL	Acetone	10.7	J	5.00	26.5	ug/Kg
			Total Voc :	10.7				
			Total Concentration:	10.7				



SAMPLE DATA

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	08/11/25
Project:	Reserve Turgyan Farms	Date Received:	08/11/25
Client Sample ID:	B-2-5-1	SDG No.:	Q2818
Lab Sample ID:	Q2818-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.5
Sample Wt/Vol:	5.38 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032069.D	1	08/11/25 16:12	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.30	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.30	ug/Kg
75-01-4	Vinyl Chloride	0.84	U	0.84	5.30	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.30	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.30	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.30	ug/Kg
67-64-1	Acetone	13.9	J	5.00	26.6	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.78	U	0.78	5.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.30	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.6	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.91	U	0.91	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.85	U	0.85	5.30	ug/Kg
110-82-7	Cyclohexane	0.84	U	0.84	5.30	ug/Kg
78-93-3	2-Butanone	6.90	U	6.90	26.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.30	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.30	ug/Kg
67-66-3	Chloroform	0.89	U	0.89	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	5.30	ug/Kg
108-87-2	Methylcyclohexane	0.97	U	0.97	5.30	ug/Kg
71-43-2	Benzene	0.84	U	0.84	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.84	U	0.84	5.30	ug/Kg
79-01-6	Trichloroethene	0.86	U	0.86	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.97	U	0.97	5.30	ug/Kg
75-27-4	Bromodichloromethane	0.83	U	0.83	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	26.6	ug/Kg
108-88-3	Toluene	0.83	U	0.83	5.30	ug/Kg

Report of Analysis

Client:	Earth Engineering Inc.		Date Collected:	08/11/25	
Project:	Reserve Turgyan Farms		Date Received:	08/11/25	
Client Sample ID:	B-2-5-1		SDG No.:	Q2818	
Lab Sample ID:	Q2818-01		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	87.5	
Sample Wt/Vol:	5.38	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032069.D	1	08/11/25 16:12	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.69	U	0.69	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.66	U	0.66	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.98	U	0.98	5.30	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.6	ug/Kg
124-48-1	Dibromochloromethane	0.92	U	0.92	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.93	U	0.93	5.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.30	ug/Kg
108-90-7	Chlorobenzene	0.97	U	0.97	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.71	U	0.71	5.30	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.6	ug/Kg
95-47-6	o-Xylene	0.87	U	0.87	5.30	ug/Kg
100-42-5	Styrene	0.75	U	0.75	5.30	ug/Kg
75-25-2	Bromoform	0.91	U	0.91	5.30	ug/Kg
98-82-8	Isopropylbenzene	0.83	U	0.83	5.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.70	5.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.20	U	3.20	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	3.40	5.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.5		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	49.7		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		17 - 146	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	175000	7.965			
540-36-3	1,4-Difluorobenzene	371000	8.856			
3114-55-4	Chlorobenzene-d5	349000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	162000	13.556			

Report of Analysis

Client:	Earth Engineering Inc.		Date Collected:	08/11/25	
Project:	Reserve Turgyan Farms		Date Received:	08/11/25	
Client Sample ID:	B-2-5-1		SDG No.:	Q2818	
Lab Sample ID:	Q2818-01		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	87.5	
Sample Wt/Vol:	5.38	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032069.D	1	08/11/25 16:12	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	Earth Engineering Inc.	Date Collected:	08/11/25
Project:	Reserve Turgyan Farms	Date Received:	08/11/25
Client Sample ID:	B-3-5-2	SDG No.:	Q2818
Lab Sample ID:	Q2818-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.1
Sample Wt/Vol:	5.29 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032070.D	1	08/11/25 16:34	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.30	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.30	ug/Kg
75-01-4	Vinyl Chloride	0.84	U	0.84	5.30	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.30	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.30	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.30	ug/Kg
67-64-1	Acetone	10.7	J	5.00	26.5	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.77	U	0.77	5.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.30	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.6	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.91	U	0.91	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.85	U	0.85	5.30	ug/Kg
110-82-7	Cyclohexane	0.84	U	0.84	5.30	ug/Kg
78-93-3	2-Butanone	6.90	U	6.90	26.5	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.30	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.30	ug/Kg
67-66-3	Chloroform	0.89	U	0.89	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	5.30	ug/Kg
108-87-2	Methylcyclohexane	0.97	U	0.97	5.30	ug/Kg
71-43-2	Benzene	0.84	U	0.84	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.84	U	0.84	5.30	ug/Kg
79-01-6	Trichloroethene	0.86	U	0.86	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.97	U	0.97	5.30	ug/Kg
75-27-4	Bromodichloromethane	0.83	U	0.83	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	26.5	ug/Kg
108-88-3	Toluene	0.83	U	0.83	5.30	ug/Kg

Report of Analysis

Client:	Earth Engineering Inc.		Date Collected:	08/11/25	
Project:	Reserve Turgyan Farms		Date Received:	08/11/25	
Client Sample ID:	B-3-5-2		SDG No.:	Q2818	
Lab Sample ID:	Q2818-02		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	89.1	
Sample Wt/Vol:	5.29	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032070.D	1	08/11/25 16:34	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.69	U	0.69	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.66	U	0.66	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.98	U	0.98	5.30	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.5	ug/Kg
124-48-1	Dibromochloromethane	0.92	U	0.92	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.93	U	0.93	5.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.30	ug/Kg
108-90-7	Chlorobenzene	0.97	U	0.97	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.71	U	0.71	5.30	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.6	ug/Kg
95-47-6	o-Xylene	0.87	U	0.87	5.30	ug/Kg
100-42-5	Styrene	0.75	U	0.75	5.30	ug/Kg
75-25-2	Bromoform	0.91	U	0.91	5.30	ug/Kg
98-82-8	Isopropylbenzene	0.83	U	0.83	5.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.70	5.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.20	U	3.20	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	3.40	5.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		63 - 155	114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	50.0		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.4		17 - 146	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	163000	7.965			
540-36-3	1,4-Difluorobenzene	345000	8.855			
3114-55-4	Chlorobenzene-d5	338000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	164000	13.556			

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	08/11/25
Project:	Reserve Turgyan Farms	Date Received:	08/11/25
Client Sample ID:	B-3-5-2	SDG No.:	Q2818
Lab Sample ID:	Q2818-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.1
Sample Wt/Vol:	5.29	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032070.D	1	08/11/25 16:34	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

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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.: Q2818

Client: Earth Engineering Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2818-01	B-2-5-1	1,2-Dichloroethane-d4	50	51.5	103		63	155
		Dibromofluoromethane	50	49.6	99		70	134
		Toluene-d8	50	49.7	99		74	123
		4-Bromofluorobenzene	50	51.0	102		17	146
Q2818-02	B-3-5-2	1,2-Dichloroethane-d4	50	56.8	114		63	155
		Dibromofluoromethane	50	53.5	107		70	134
		Toluene-d8	50	50.0	100		74	123
		4-Bromofluorobenzene	50	54.4	109		17	146
VW0811SBL01	VW0811SBL01	1,2-Dichloroethane-d4	50	52.6	105		63	155
		Dibromofluoromethane	50	47.8	96		70	134
		Toluene-d8	50	49.1	98		74	123
		4-Bromofluorobenzene	50	47.4	95		17	146
VW0811SBS01	VW0811SBS01	1,2-Dichloroethane-d4	50	50.8	102		63	155
		Dibromofluoromethane	50	48.9	98		70	134
		Toluene-d8	50	49.8	100		74	123
		4-Bromofluorobenzene	50	52.4	105		17	146
VW0811SBSD0	VW0811SBSD01	1,2-Dichloroethane-d4	50	49.8	100		63	155
		Dibromofluoromethane	50	47.0	94		70	134
		Toluene-d8	50	48.3	97		74	123
		4-Bromofluorobenzene	50	49.8	100		17	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SDG No.:	Q2818	SW-846	Analytical Method:	SW8260D
Client:	Earth Engineering Inc.	Datafile :	VW032061.D	

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0811SBS01	Dichlorodifluoromethane	20	21.3	ug/Kg	106			64	136	
	Chloromethane	20	20.8	ug/Kg	104			52	151	
	Vinyl chloride	20	21.1	ug/Kg	106			56	148	
	Bromomethane	20	21.5	ug/Kg	108			58	141	
	Chloroethane	20	20.8	ug/Kg	104			69	130	
	Trichlorofluoromethane	20	17.6	ug/Kg	88			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/Kg	101			81	123	
	1,1-Dichloroethene	20	20.4	ug/Kg	102			79	121	
	Acetone	100	120	ug/Kg	120			40	171	
	Carbon disulfide	20	20.2	ug/Kg	101			59	130	
	Methyl tert-butyl Ether	20	21.9	ug/Kg	110			77	129	
	Methyl Acetate	20	21.7	ug/Kg	109			69	149	
	Methylene Chloride	20	21.4	ug/Kg	107			72	131	
	trans-1,2-Dichloroethene	20	20.7	ug/Kg	104			80	123	
	1,1-Dichloroethane	20	21.0	ug/Kg	105			82	123	
	Cyclohexane	20	20.0	ug/Kg	100			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	20.0	ug/Kg	100			76	129	
	cis-1,2-Dichloroethene	20	21.2	ug/Kg	106			82	123	
	Bromochloromethane	20	20.5	ug/Kg	103			80	127	
	Chloroform	20	21.1	ug/Kg	106			82	125	
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104			80	126	
	Methylcyclohexane	20	20.0	ug/Kg	100			77	123	
	Benzene	20	21.0	ug/Kg	105			84	121	
	1,2-Dichloroethane	20	20.9	ug/Kg	104			81	126	
	Trichloroethene	20	20.2	ug/Kg	101			83	122	
	1,2-Dichloropropane	20	21.0	ug/Kg	105			83	122	
	Bromodichloromethane	20	20.4	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			70	135	
	Toluene	20	21.0	ug/Kg	105			83	122	
	t-1,3-Dichloropropene	20	20.4	ug/Kg	102			78	124	
	cis-1,3-Dichloropropene	20	20.9	ug/Kg	104			81	122	
	1,1,2-Trichloroethane	20	20.8	ug/Kg	104			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	20.6	ug/Kg	103			79	125	
	1,2-Dibromoethane	20	21.2	ug/Kg	106			80	125	
	Tetrachloroethene	20	21.1	ug/Kg	106			83	125	
	Chlorobenzene	20	20.2	ug/Kg	101			84	122	
	Ethyl Benzene	20	20.1	ug/Kg	101			82	124	
	m/p-Xylenes	40	40.9	ug/Kg	102			83	124	
	o-Xylene	20	21.2	ug/Kg	106			83	123	
	Styrene	20	20.9	ug/Kg	104			82	124	
	Bromoform	20	19.6	ug/Kg	98			75	127	
	Isopropylbenzene	20	19.9	ug/Kg	100			82	124	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/Kg	101			77	127	
	1,3-Dichlorobenzene	20	20.4	ug/Kg	102			83	122	
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104			84	121	
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2818</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Earth Engineering Inc.</u>	Datafile :	<u>VW032061.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0811SBS01	1,2-Dibromo-3-Chloropropane	20	20.1	ug/Kg	101			66	134	
	1,2,4-Trichlorobenzene	20	19.5	ug/Kg	98			78	127	
	1,2,3-Trichlorobenzene	20	21.4	ug/Kg	107			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SDG No.:	Q2818	SW-846	Analytical Method:	SW8260D
Client:	Earth Engineering Inc.	Datafile :	VW032062.D	

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0811SBSD01	Dichlorodifluoromethane	20	20.4	ug/Kg	102	4		64	136	20
	Chloromethane	20	21.5	ug/Kg	108	4		52	151	20
	Vinyl chloride	20	20.6	ug/Kg	103	3		56	148	20
	Bromomethane	20	21.1	ug/Kg	106	2		58	141	20
	Chloroethane	20	20.9	ug/Kg	104	0		69	130	20
	Trichlorofluoromethane	20	20.7	ug/Kg	104	17		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/Kg	99	2		81	123	20
	1,1-Dichloroethene	20	20.2	ug/Kg	101	1		79	121	20
	Acetone	100	110	ug/Kg	110	9		40	171	20
	Carbon disulfide	20	20.0	ug/Kg	100	1		59	130	20
	Methyl tert-butyl Ether	20	21.8	ug/Kg	109	1		77	129	20
	Methyl Acetate	20	21.5	ug/Kg	108	1		69	149	20
	Methylene Chloride	20	21.6	ug/Kg	108	1		72	131	20
	trans-1,2-Dichloroethene	20	20.5	ug/Kg	103	1		80	123	20
	1,1-Dichloroethane	20	20.5	ug/Kg	103	2		82	123	20
	Cyclohexane	20	20.1	ug/Kg	101	1		76	122	20
	2-Butanone	100	110	ug/Kg	110	0		69	131	20
	Carbon Tetrachloride	20	19.8	ug/Kg	99	1		76	129	20
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104	2		82	123	20
	Bromochloromethane	20	20.0	ug/Kg	100	3		80	127	20
	Chloroform	20	21.0	ug/Kg	105	1		82	125	20
	1,1,1-Trichloroethane	20	20.4	ug/Kg	102	2		80	126	20
	Methylcyclohexane	20	20.1	ug/Kg	101	1		77	123	20
	Benzene	20	20.2	ug/Kg	101	4		84	121	20
	1,2-Dichloroethane	20	20.8	ug/Kg	104	0		81	126	20
	Trichloroethene	20	20.1	ug/Kg	101	0		83	122	20
	1,2-Dichloropropane	20	20.1	ug/Kg	101	4		83	122	20
	Bromodichloromethane	20	20.0	ug/Kg	100	2		82	123	20
	4-Methyl-2-Pentanone	100	100	ug/Kg	100	10		70	135	20
	Toluene	20	20.5	ug/Kg	103	2		83	122	20
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100	2		78	124	20
	cis-1,3-Dichloropropene	20	20.4	ug/Kg	102	2		81	122	20
	1,1,2-Trichloroethane	20	20.7	ug/Kg	104	0		82	125	20
	2-Hexanone	100	110	ug/Kg	110	0		66	138	20
	Dibromochloromethane	20	20.1	ug/Kg	101	2		79	125	20
	1,2-Dibromoethane	20	20.7	ug/Kg	104	2		80	125	20
	Tetrachloroethene	20	20.5	ug/Kg	103	3		83	125	20
	Chlorobenzene	20	20.2	ug/Kg	101	0		84	122	20
	Ethyl Benzene	20	20.5	ug/Kg	103	2		82	124	20
	m/p-Xylenes	40	40.7	ug/Kg	102	0		83	124	20
	o-Xylene	20	20.4	ug/Kg	102	4		83	123	20
	Styrene	20	20.8	ug/Kg	104	0		82	124	20
	Bromoform	20	20.2	ug/Kg	101	3		75	127	20
	Isopropylbenzene	20	19.5	ug/Kg	98	2		82	124	20
	1,1,2,2-Tetrachloroethane	20	20.5	ug/Kg	103	2		77	127	20
	1,3-Dichlorobenzene	20	20.7	ug/Kg	104	2		83	122	20
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104	0		84	121	20
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104	2		83	124	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2818</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Earth Engineering Inc.</u>	Datafile :	<u>VW032062.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0811SBSD01	1,2-Dibromo-3-Chloropropane	20	19.6	ug/Kg	98	3		66	134	20
	1,2,4-Trichlorobenzene	20	20.4	ug/Kg	102	4		78	127	20
	1,2,3-Trichlorobenzene	20	20.6	ug/Kg	103	4		70	137	20

VOLATILE METHOD BLANK SUMMARY

Client ID

VW0811SBL01

Lab Name: Alliance

Contract: EARTH03

Lab Code: ACE

SDG NO.: Q2818

Lab File ID: VW032060.D

Lab Sample ID: VW0811SBL01

Date Analyzed: 08/11/2025

Time Analyzed: 12:18

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_W

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW0811SBS01	VW0811SBS01	VW032061.D	08/11/2025
VW0811SBSD01	VW0811SBSD01	VW032062.D	08/11/2025
B-2-5-1	Q2818-01	VW032069.D	08/11/2025
B-3-5-2	Q2818-02	VW032070.D	08/11/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: EARTH03

Lab Code: ACE

SDG NO.: Q2818

Lab File ID: VW032051.D

BFB Injection Date: 08/11/2025

Instrument ID: MSVOA_W

BFB Injection Time: 07:53

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	67.1
175	5.0 - 9.0% of mass 174	4.9 (7.3) 1
176	95.0 - 101.0% of mass 174	64.2 (95.6) 1
177	5.0 - 9.0% of mass 176	4.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VW032052.D	08/11/2025	08:25
VSTDIC010	VSTDIC010	VW032053.D	08/11/2025	09:09
VSTDIC020	VSTDIC020	VW032054.D	08/11/2025	09:47
VSTDIC050	VSTDIC050	VW032055.D	08/11/2025	10:09
VSTDIC100	VSTDIC100	VW032056.D	08/11/2025	10:46
VSTDIC150	VSTDIC150	VW032057.D	08/11/2025	11:08
VW0811SBL01	VW0811SBL01	VW032060.D	08/11/2025	12:18
VW0811SBS01	VW0811SBS01	VW032061.D	08/11/2025	12:48
VW0811SBSD01	VW0811SBSD01	VW032062.D	08/11/2025	13:10
B-2-5-1	Q2818-01	VW032069.D	08/11/2025	16:12
B-3-5-2	Q2818-02	VW032070.D	08/11/2025	16:34

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: EARTH03
 Lab Code: ACE SDG NO.: Q2818
 Lab File ID: VW032055.D Date Analyzed: 08/11/2025
 Instrument ID: MSVOA_W Time Analyzed: 10:09
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	223324	7.96	406973	8.85	378090	11.63
UPPER LIMIT	446648	8.459	813946	9.349	756180	12.129
LOWER LIMIT	111662	7.459	203487	8.349	189045	11.129
EPA SAMPLE NO.						
B-2-5-1	174717	7.97	370548	8.86	348814	11.63
B-3-5-2	163499	7.97	344516	8.86	338197	11.63
VW0811SBL01	176404	7.96	391811	8.85	359327	11.64
VW0811SBS01	224181	7.96	427747	8.85	394820	11.63
VW0811SBSD01	226773	7.96	441696	8.85	400240	11.64

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:	<u>Alliance</u>	Contract:	<u>EARTH03</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2818</u>
Lab File ID:	<u>VW032055.D</u>	Date Analyzed:	<u>08/11/2025</u>
Instrument ID:	<u>MSVOA_W</u>	Time Analyzed:	<u>10:09</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>Y</u>

	IS4 AREA #	RT #				
12 HOUR STD	178995	13.556				
UPPER LIMIT	357990	14.056				
LOWER LIMIT	89497.5	13.056				
EPA SAMPLE NO.						
B-2-5-1	162398	13.56				
B-3-5-2	164031	13.56				
VW0811SBL01	169733	13.56				
VW0811SBS01	191594	13.56				
VW0811SBSD01	195548	13.56				

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:	Earth Engineering Inc.	Date Collected:	
Project:	Reserve Turgyan Farms	Date Received:	
Client Sample ID:	VW0811SBL01	SDG No.:	Q2818
Lab Sample ID:	VW0811SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032060.D	1	08/11/25 12:18	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

Report of Analysis

Client:	Earth Engineering Inc.		Date Collected:	
Project:	Reserve Turgyan Farms		Date Received:	
Client Sample ID:	VW0811SBL01		SDG No.:	Q2818
Lab Sample ID:	VW0811SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032060.D	1	08/11/25 12:18	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		63 - 155	105%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	49.1		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		17 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	176000	7.959			
540-36-3	1,4-Difluorobenzene	392000	8.849			
3114-55-4	Chlorobenzene-d5	359000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	170000	13.556			

Report of Analysis

Client:	Earth Engineering Inc.		Date Collected:	
Project:	Reserve Turgyan Farms		Date Received:	
Client Sample ID:	VW0811SBL01		SDG No.:	Q2818
Lab Sample ID:	VW0811SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032060.D	1	08/11/25 12:18	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	Earth Engineering Inc.	Date Collected:	
Project:	Reserve Turgyan Farms	Date Received:	
Client Sample ID:	VW0811SBS01	SDG No.:	Q2818
Lab Sample ID:	VW0811SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032061.D	1	08/11/25 12:48	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.8		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.8		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	17.6		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.4		1.00	5.00	ug/Kg
67-64-1	Acetone	120		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.2		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.9		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	21.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	21.4		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.7		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.0		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.0		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.0		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.2		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.7		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.0		0.91	5.00	ug/Kg
71-43-2	Benzene	21.0		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.9		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.2		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.0		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		3.60	25.0	ug/Kg
108-88-3	Toluene	21.0		0.78	5.00	ug/Kg

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Reserve Turgyan Farms	Date Received:	
Client Sample ID:	VW0811SBS01	SDG No.:	Q2818
Lab Sample ID:	VW0811SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032061.D	1	08/11/25 12:48	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.8		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.6		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.2		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.1		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.2		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.9		1.20	10.0	ug/Kg
95-47-6	o-Xylene	21.2		0.82	5.00	ug/Kg
100-42-5	Styrene	20.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.6		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.9		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.4		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.7		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.3		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.1		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.5		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.4		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	49.8		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		17 - 146	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	224000	7.959			
540-36-3	1,4-Difluorobenzene	428000	8.849			
3114-55-4	Chlorobenzene-d5	395000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	192000	13.556			

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Reserve Turgyan Farms	Date Received:	
Client Sample ID:	VW0811SBS01	SDG No.:	Q2818
Lab Sample ID:	VW0811SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032061.D	1	08/11/25 12:48	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	Earth Engineering Inc.	Date Collected:	
Project:	Reserve Turgyan Farms	Date Received:	
Client Sample ID:	VW0811SBSD01	SDG No.:	Q2818
Lab Sample ID:	VW0811SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032062.D	1	08/11/25 13:10	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.4		1.10	5.00	ug/Kg
74-87-3	Chloromethane	21.5		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.6		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.1		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.9		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.7		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.0		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.8		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	21.5		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	21.6		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.5		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.1		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.8		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.0		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.4		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.2		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.8		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.1		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.0		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Reserve Turgyan Farms	Date Received:	
Client Sample ID:	VW0811SBSD01	SDG No.:	Q2818
Lab Sample ID:	VW0811SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032062.D	1	08/11/25 13:10	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.4		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.7		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.2		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.5		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.7		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.4		0.82	5.00	ug/Kg
100-42-5	Styrene	20.8		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.5		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.5		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.7		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.7		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.6		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.4		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.6		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		70 - 134	94%	SPK: 50
2037-26-5	Toluene-d8	48.3		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		17 - 146	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	227000	7.959			
540-36-3	1,4-Difluorobenzene	442000	8.849			
3114-55-4	Chlorobenzene-d5	400000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	196000	13.556			

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Reserve Turgyan Farms	Date Received:	
Client Sample ID:	VW0811SBSD01	SDG No.:	Q2818
Lab Sample ID:	VW0811SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032062.D	1	08/11/25 13:10	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	<u>Alliance</u>	Contract:	<u>EARTH03</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2818</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date(s):	<u>08/11/2025</u> <u>08/11/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Calibration Time(s):	<u>08:25</u> <u>11:08</u>
GC Column:	<u>RXI-624</u> ID: <u>0.25</u> (mm)		

LAB FILE ID: RRF005 = VW032052.D RRF010 = VW032053.D RRF020 = VW032054.D RRF050 = VW032055.D RRF100 = VW032056.D RRF150 = VW032057.D								
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.399	0.383	0.385	0.336	0.317	0.325	0.358	9.9
Chloromethane	0.549	0.482	0.501	0.438	0.452	0.469	0.482	8.2
Vinyl Chloride	0.622	0.621	0.646	0.530	0.540	0.537	0.583	9
Bromomethane	0.482	0.452	0.462	0.411	0.413	0.403	0.437	7.5
Chloroethane	0.409	0.389	0.408	0.367	0.373	0.368	0.386	5
Trichlorofluoromethane	0.545	0.436	0.439	0.464	0.413	0.504	0.467	10.6
1,1,2-Trichlorotrifluoroethane	0.616	0.566	0.588	0.517	0.507	0.510	0.551	8.4
1,1-Dichloroethene	0.650	0.620	0.649	0.575	0.568	0.577	0.606	6.3
Acetone	0.203	0.181	0.151	0.163	0.148	0.157	0.167	12.6
Carbon Disulfide	1.694	1.616	1.727	1.557	1.567	1.605	1.628	4.2
Methyl tert-butyl Ether	1.022	1.063	1.085	1.102	1.070	1.068	1.068	2.5
Methyl Acetate	0.485	0.604	0.491	0.555	0.494	0.551	0.530	9
Methylene Chloride	1.043	0.787	0.840	0.681	0.644	0.649	0.774	19.9
trans-1,2-Dichloroethene	0.650	0.641	0.673	0.627	0.636	0.634	0.644	2.6
1,1-Dichloroethane	1.193	1.200	1.249	1.157	1.173	1.161	1.189	2.9
Cyclohexane	1.170	1.080	1.073	0.961	0.941	0.958	1.031	8.9
2-Butanone	0.233	0.241	0.217	0.255	0.233	0.249	0.238	5.7
Carbon Tetrachloride	0.441	0.440	0.451	0.448	0.426	0.430	0.439	2.2
cis-1,2-Dichloroethene	0.711	0.736	0.772	0.749	0.775	0.769	0.752	3.3
Bromochloromethane	0.561	0.542	0.549	0.543	0.521	0.529	0.541	2.6
Chloroform	1.267	1.269	1.324	1.235	1.243	1.223	1.260	2.9
1,1,1-Trichloroethane	0.960	0.949	0.965	0.872	0.869	0.878	0.915	5.1
Methylcyclohexane	0.525	0.540	0.568	0.578	0.540	0.578	0.555	4.1
Benzene	1.399	1.423	1.439	1.469	1.365	1.398	1.415	2.6
1,2-Dichloroethane	0.461	0.467	0.458	0.466	0.429	0.436	0.453	3.6
Trichloroethene	0.353	0.334	0.342	0.339	0.319	0.335	0.337	3.3
1,2-Dichloropropane	0.339	0.342	0.352	0.352	0.327	0.339	0.342	2.8
Bromodichloromethane	0.501	0.499	0.505	0.532	0.498	0.516	0.509	2.6
4-Methyl-2-Pentanone	0.265	0.284	0.258	0.312	0.265	0.287	0.279	7.3
Toluene	0.837	0.882	0.910	0.932	0.887	0.902	0.892	3.6

* 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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>EARTH03</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q2818</u>
Instrument ID: <u>MSVOA_W</u>	Calibration Date(s): <u>08/11/2025</u> <u>08/11/2025</u>
Heated Purge: (Y/N) <u>Y</u>	Calibration Time(s): <u>08:25</u> <u>11:08</u>
GC Column: <u>RXI-624</u> ID: <u>0.25</u> (mm)	

LAB FILE ID:		RRF005 = VW032052.D		RRF010 = VW032053.D		RRF020 = VW032054.D		
		RRF050 = VW032055.D		RRF100 = VW032056.D		RRF150 = VW032057.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.430	0.450	0.464	0.515	0.483	0.517	0.476	7.4
cis-1,3-Dichloropropene	0.499	0.516	0.530	0.581	0.552	0.566	0.541	5.8
1,1,2-Trichloroethane	0.297	0.296	0.292	0.306	0.282	0.288	0.293	2.8
2-Hexanone	0.178	0.194	0.177	0.220	0.187	0.202	0.193	8.5
Dibromochloromethane	0.322	0.327	0.330	0.349	0.332	0.349	0.335	3.5
1,2-Dibromoethane	0.282	0.283	0.276	0.299	0.283	0.287	0.285	2.7
Tetrachloroethene	0.293	0.301	0.295	0.279	0.275	0.290	0.289	3.5
Chlorobenzene	1.112	1.116	1.098	1.068	1.043	1.093	1.088	2.6
Ethyl Benzene	1.714	1.806	1.921	1.870	1.830	1.921	1.843	4.3
m/p-Xylenes	0.645	0.707	0.754	0.731	0.702	0.730	0.711	5.3
o-Xylene	0.578	0.639	0.673	0.681	0.675	0.699	0.657	6.6
Styrene	1.004	1.135	1.226	1.211	1.181	1.249	1.168	7.7
Bromoform	0.186	0.189	0.184	0.206	0.188	0.212	0.194	6
Isopropylbenzene	2.910	3.454	3.525	3.657	3.595	3.825	3.494	9
1,1,2,2-Tetrachloroethane	0.803	0.871	0.769	0.872	0.794	0.870	0.830	5.6
1,3-Dichlorobenzene	1.546	1.721	1.684	1.752	1.583	1.679	1.661	4.8
1,4-Dichlorobenzene	1.653	1.733	1.739	1.673	1.625	1.646	1.678	2.8
1,2-Dichlorobenzene	1.455	1.558	1.490	1.528	1.450	1.544	1.504	3.1
1,2-Dibromo-3-Chloropropane	0.151	0.146	0.131	0.159	0.141	0.157	0.147	7.1
1,2,4-Trichlorobenzene	0.794	0.878	0.905	0.920	0.937	0.966	0.900	6.6
1,2,3-Trichlorobenzene	0.714	0.791	0.804	0.836	0.866	0.903	0.819	8
1,2-Dichloroethane-d4	0.746	0.748	0.720	0.716	0.712	0.697	0.723	2.7
Dibromofluoromethane	0.336	0.328	0.326	0.325	0.313	0.311	0.323	3
Toluene-d8	1.175	1.180	1.207	1.245	1.184	1.178	1.195	2.3
4-Bromofluorobenzene	0.428	0.431	0.444	0.460	0.438	0.441	0.440	2.6

* 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.



SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032069.D
Acq On : 11 Aug 2025 16:12
Operator : SY/MD
Sample : Q2818-01
Misc : 5.38g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B-2-5-1

Quant Time: Aug 12 04:27:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

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

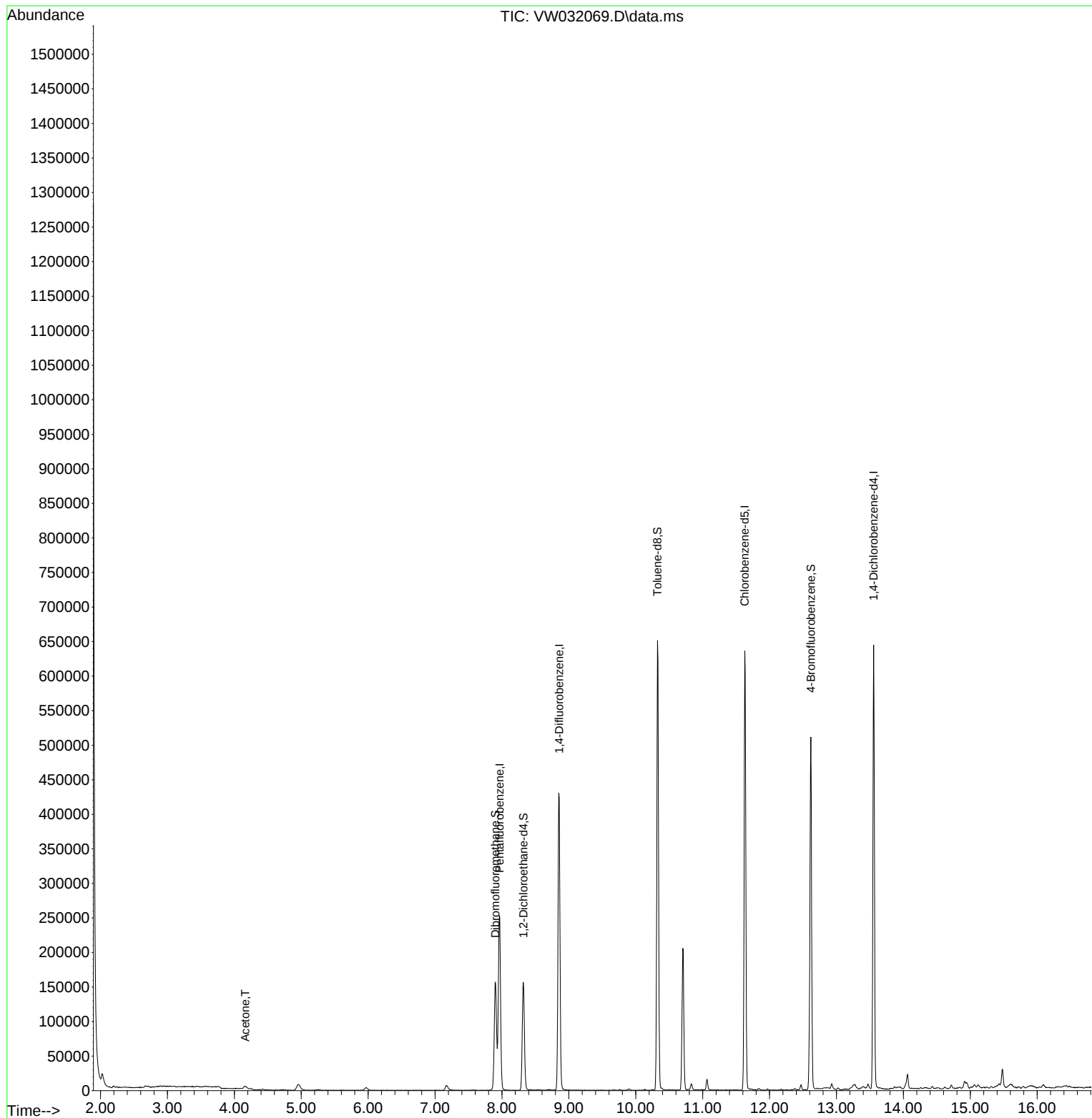
Internal Standards						
1) Pentafluorobenzene	7.965	168	174717	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	370548	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	348814	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	162398	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	130197	51.524	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	=	103.040%	
35) Dibromofluoromethane	7.898	113	118747	49.604	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	=	99.200%	
50) Toluene-d8	10.325	98	439783	49.669	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	=	99.340%	
62) 4-Bromofluorobenzene	12.617	95	166429	51.006	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	=	102.020%	
Target Compounds						
16) Acetone	4.161	43	7642	13.062	ug/l	90

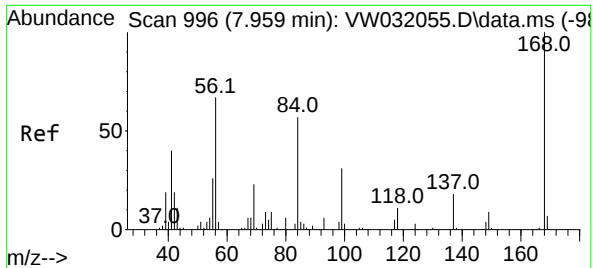
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032069.D
Acq On : 11 Aug 2025 16:12
Operator : SY/MD
Sample : Q2818-01
Misc : 5.38g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B-2-5-1

Quant Time: Aug 12 04:27:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

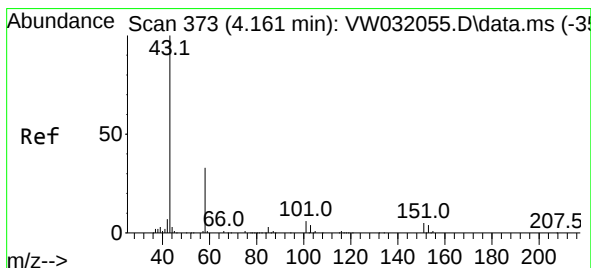
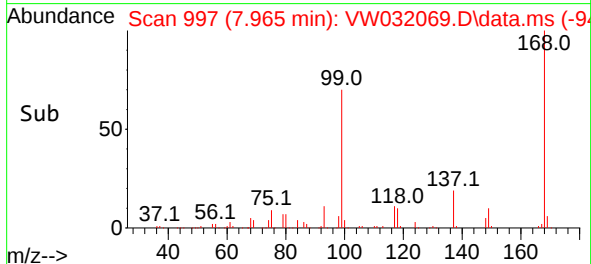
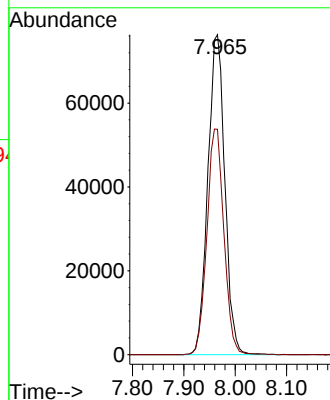
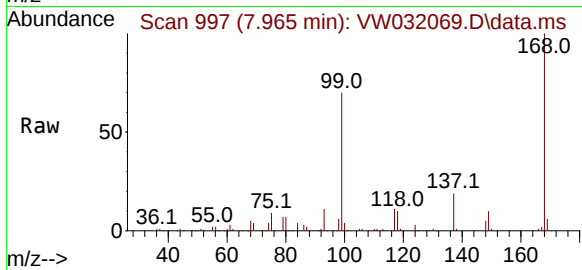




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 996
Delta R.T. 0.006 min
Lab File: VW032069.D
Acq: 11 Aug 2025 16:12

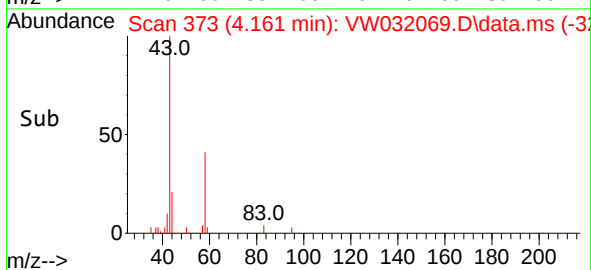
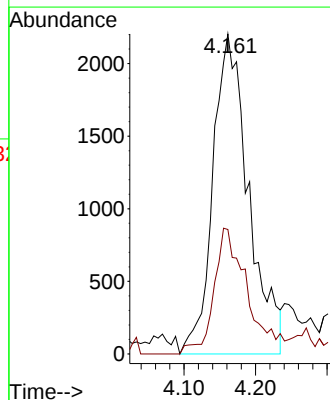
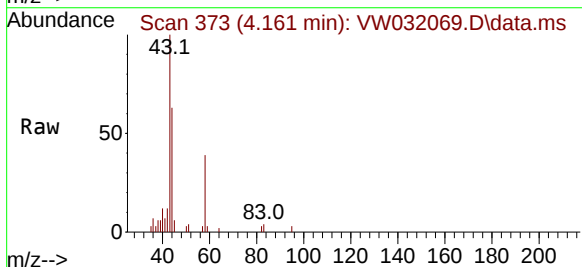
Instrument :
MSVOA_W
ClientSampleId :
B-2-5-1

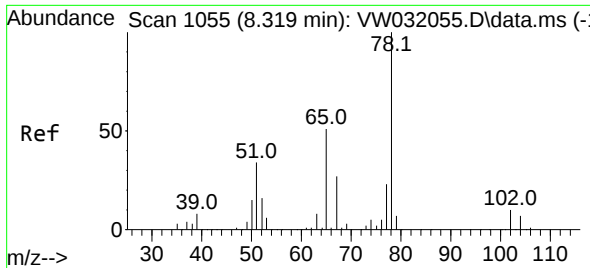
Tgt Ion:168 Resp: 174717
Ion Ratio Lower Upper
168 100
99 70.4 56.0 84.0



#16
Acetone
Concen: 13.062 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032069.D
Acq: 11 Aug 2025 16:12

Tgt Ion: 43 Resp: 7642
Ion Ratio Lower Upper
43 100
58 38.9 26.6 39.8





#33

1,2-Dichloroethane-d4

Concen: 51.524 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VW032069.D

Acq: 11 Aug 2025 16:12

Instrument :

MSVOA_W

ClientSampleId :

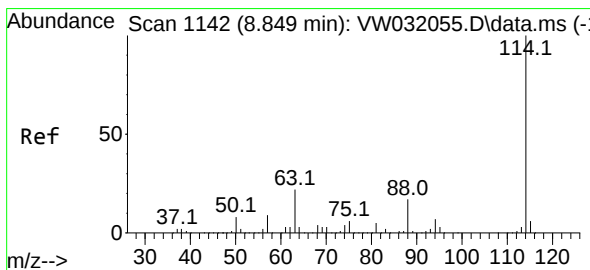
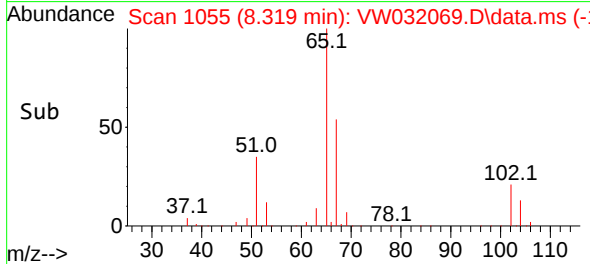
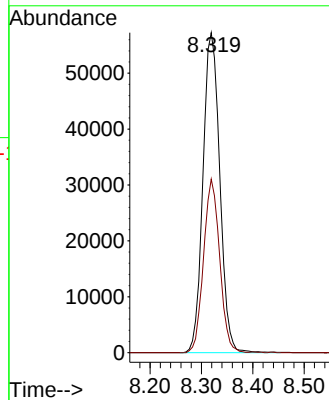
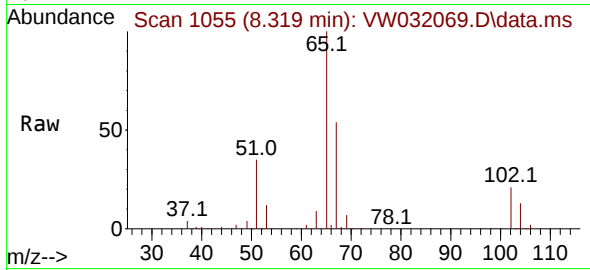
B-2-5-1

Tgt Ion: 65 Resp: 130197

Ion Ratio Lower Upper

65 100

67 51.9 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VW032069.D

Acq: 11 Aug 2025 16:12

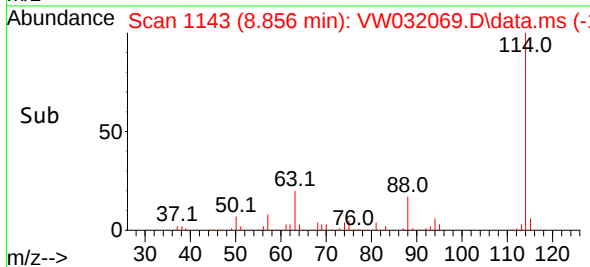
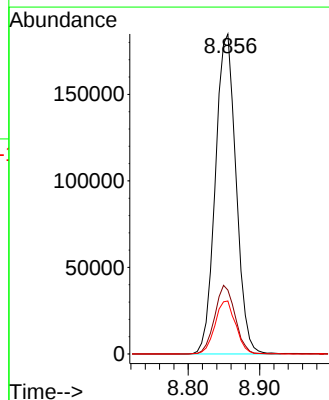
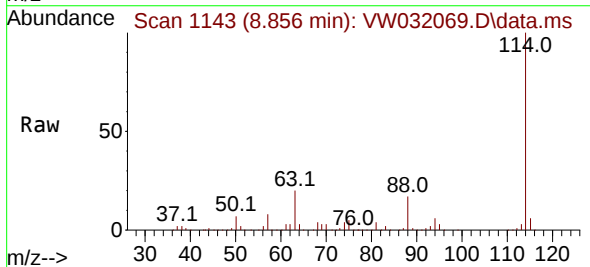
Tgt Ion: 114 Resp: 370548

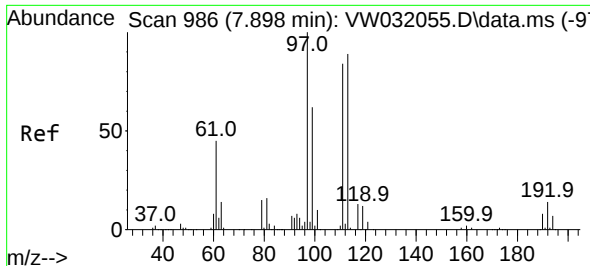
Ion Ratio Lower Upper

114 100

63 19.9 0.0 43.0

88 16.5 0.0 33.8





#35

Dibromofluoromethane

Concen: 49.604 ug/l

RT: 7.898 min Scan# 986

Delta R.T. 0.000 min

Lab File: VW032069.D

Acq: 11 Aug 2025 16:12

Instrument :

MSVOA_W

ClientSampleId :

B-2-5-1

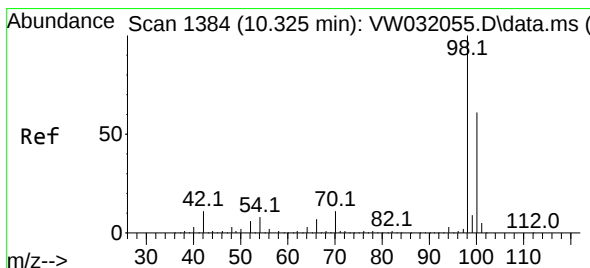
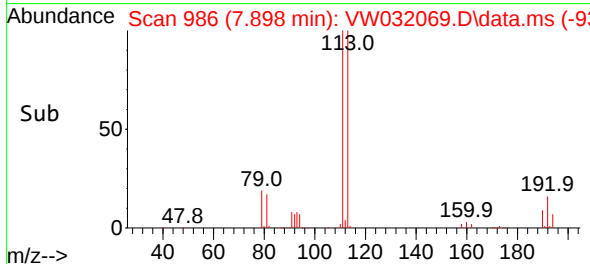
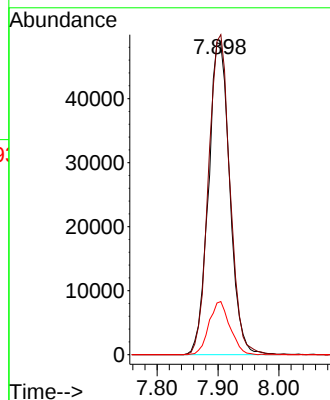
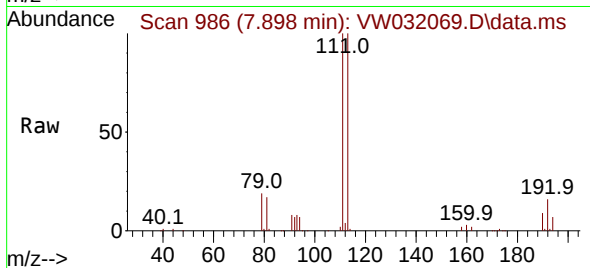
Tgt Ion:113 Resp: 118747

Ion Ratio Lower Upper

113 100

111 102.5 80.1 120.1

192 16.7 13.1 19.7



#50

Toluene-d8

Concen: 49.669 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VW032069.D

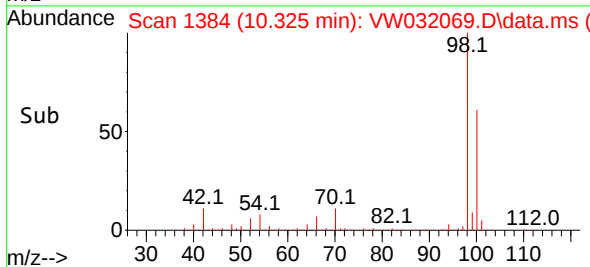
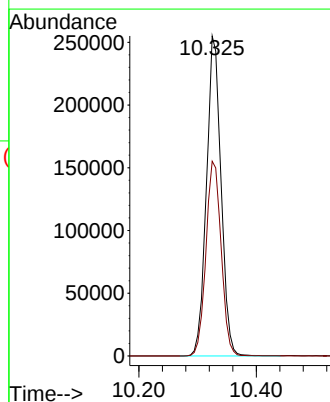
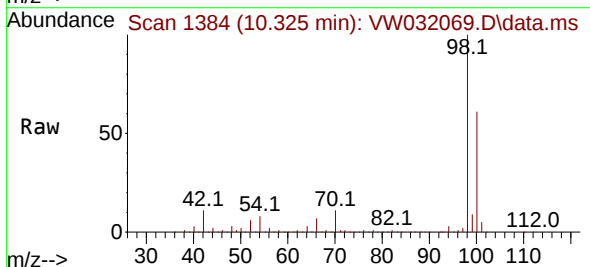
Acq: 11 Aug 2025 16:12

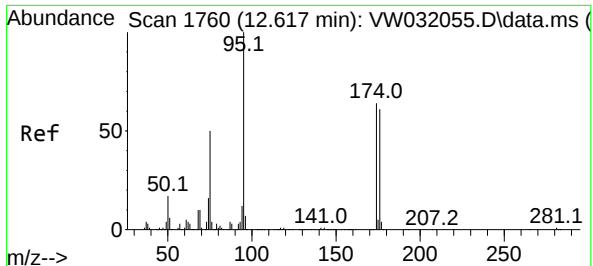
Tgt Ion: 98 Resp: 439783

Ion Ratio Lower Upper

98 100

100 63.5 51.1 76.7

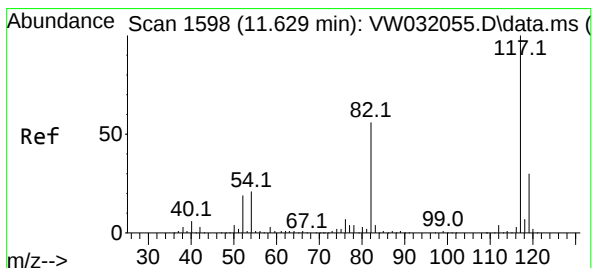
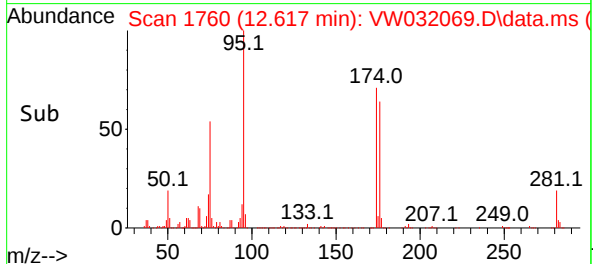
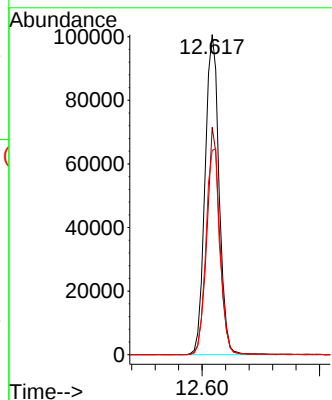
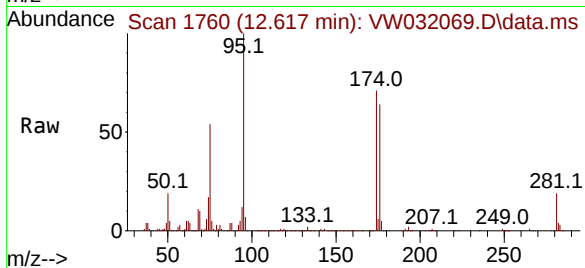




#62
4-Bromofluorobenzene
Concen: 51.006 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032069.D
Acq: 11 Aug 2025 16:12

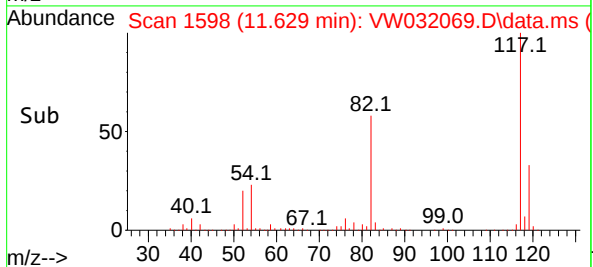
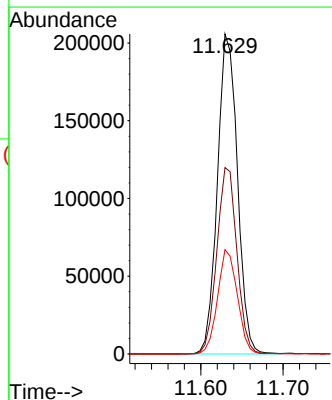
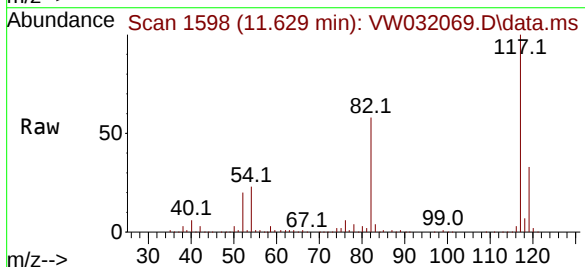
Instrument :
MSVOA_W
ClientSampleId :
B-2-5-1

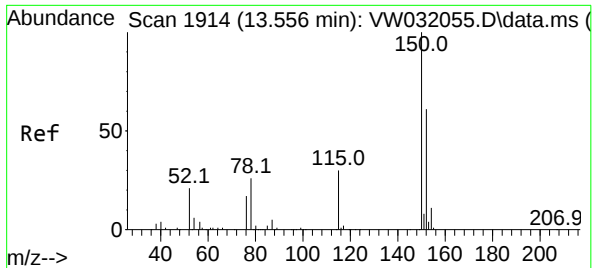
Tgt Ion: 95 Resp: 166429
Ion Ratio Lower Upper
95 100
174 64.9 0.0 129.0
176 64.7 0.0 124.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VW032069.D
Acq: 11 Aug 2025 16:12

Tgt Ion: 117 Resp: 348814
Ion Ratio Lower Upper
117 100
82 58.2 45.0 67.4
119 32.6 24.2 36.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032069.D

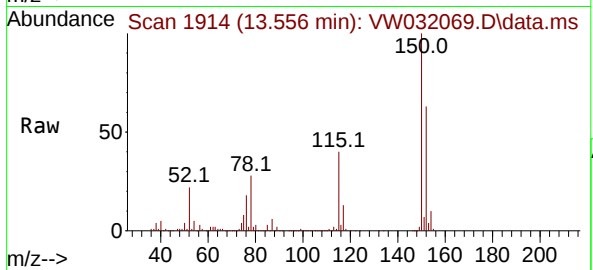
Acq: 11 Aug 2025 16:12

Instrument :

MSVOA_W

ClientSampleId :

B-2-5-1



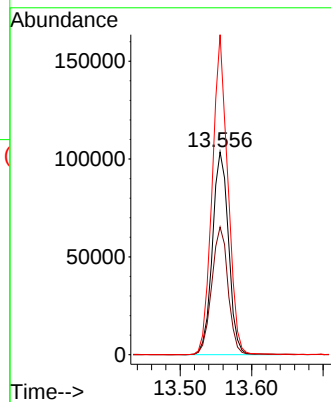
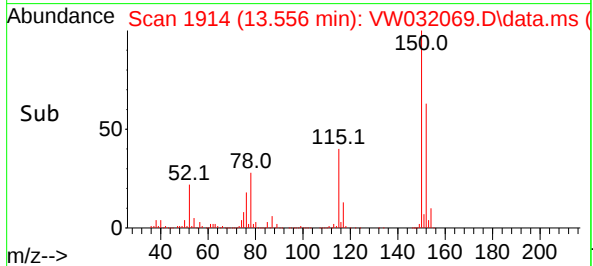
Tgt Ion:152 Resp: 162398

Ion Ratio Lower Upper

152 100

115 63.9 32.6 97.8

150 152.7 0.0 359.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
 Data File : VW032069.D
 Acq On : 11 Aug 2025 16:12
 Operator : SY/MD
 Sample : Q2818-01
 Misc : 5.38g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B-2-5-1

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M

Title : SW846 8260

Signal : TIC: VW032069.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.021	19	22	39	rVB	19107	53091	4.64%	0.753%
2	4.954	491	503	517	rBV3	8266	33746	2.95%	0.478%
3	5.966	660	669	677	rBV6	3760	12275	1.07%	0.174%
4	7.167	856	866	875	rBV3	6883	20654	1.80%	0.293%
5	7.898	970	986	991	rBV	155914	380174	33.20%	5.391%
6	7.959	991	996	1009	rVB	252018	580878	50.72%	8.236%
7	8.319	1047	1055	1071	rBV2	156053	354462	30.95%	5.026%
8	8.849	1132	1142	1152	rBV	430320	878921	76.75%	12.462%
9	10.325	1376	1384	1392	rBV	650828	1145154	100.00%	16.237%
10	10.703	1438	1446	1454	rBV	205293	377762	32.99%	5.356%
11	10.831	1461	1467	1477	rVB2	8734	16304	1.42%	0.231%
12	11.062	1498	1505	1512	rVB2	15186	25229	2.20%	0.358%
13	11.629	1589	1598	1612	rBV	636042	1087788	94.99%	15.424%
14	12.617	1751	1760	1771	rBV2	510186	902246	78.79%	12.793%
15	12.928	1807	1811	1819	rVB6	7721	14102	1.23%	0.200%
16	13.263	1853	1866	1868	rBV10	6975	21085	1.84%	0.299%
17	13.556	1907	1914	1927	rBV	642175	1008070	88.03%	14.293%
18	14.062	1986	1997	2005	rBV2	20576	45572	3.98%	0.646%
19	14.915	2129	2137	2140	rBV6	10132	22199	1.94%	0.315%
20	15.482	2224	2230	2238	rVB	26368	51719	4.52%	0.733%
21	15.610	2241	2251	2261	rVB	5483	21229	1.85%	0.301%

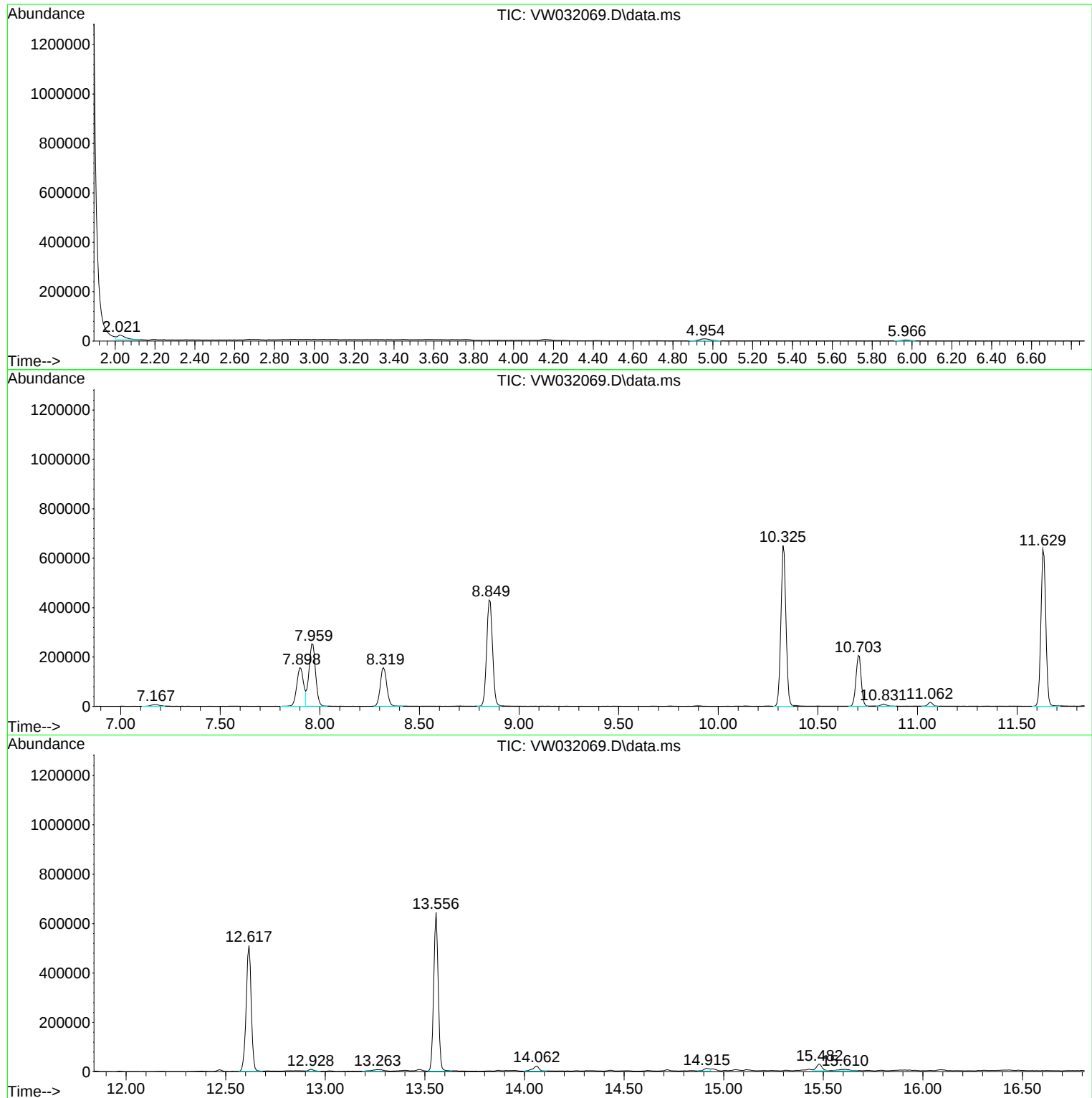
Sum of corrected areas: 7052660

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032069.D
Acq On : 11 Aug 2025 16:12
Operator : SY/MD
Sample : Q2818-01
Misc : 5.38g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B-2-5-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032069.D
Acq On : 11 Aug 2025 16:12
Operator : SY/MD
Sample : Q2818-01
Misc : 5.38g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B-2-5-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032069.D
Acq On : 11 Aug 2025 16:12
Operator : SY/MD
Sample : Q2818-01
Misc : 5.38g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B-2-5-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
 Data File : VW032070.D
 Acq On : 11 Aug 2025 16:34
 Operator : SY/MD
 Sample : Q2818-02
 Misc : 5.29g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B-3-5-2

Quant Time: Aug 12 04:27:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 12 04:04:48 2025
 Response via : Initial Calibration

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

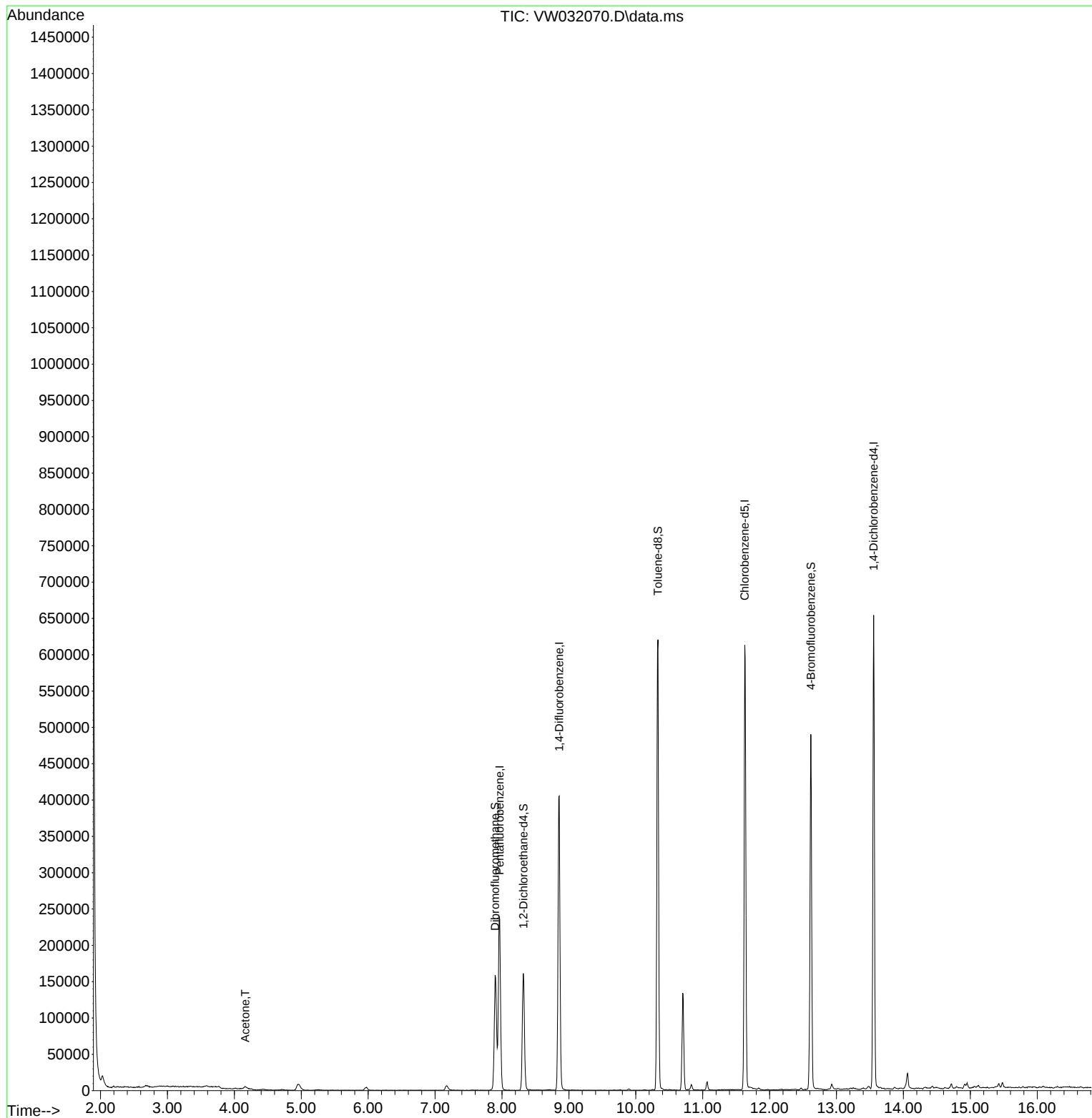
Internal Standards						
1) Pentafluorobenzene	7.965	168	163499	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	344516	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	338197	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	164031	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	134381	56.829	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	=	113.660%	
35) Dibromofluoromethane	7.898	113	119002	53.467	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	=	106.940%	
50) Toluene-d8	10.331	98	411374	49.971	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	=	99.940%	
62) 4-Bromofluorobenzene	12.617	95	165115	54.427	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	=	108.860%	
Target Compounds						
16) Acetone	4.161	43	5517	10.077	ug/l	Qvalue # 78

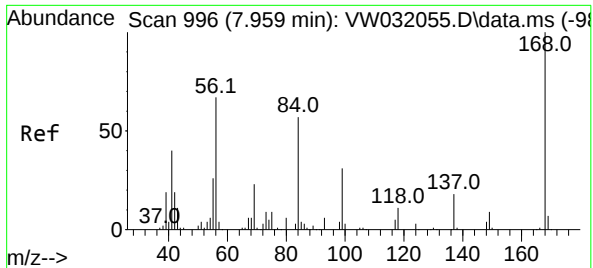
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032070.D
Acq On : 11 Aug 2025 16:34
Operator : SY/MD
Sample : Q2818-02
Misc : 5.29g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B-3-5-2

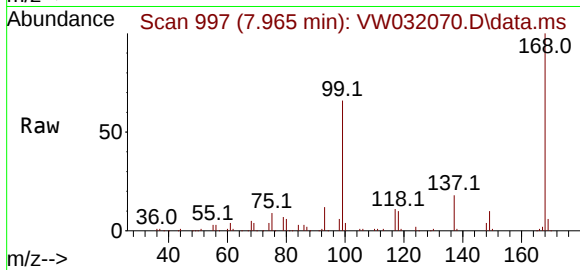
Quant Time: Aug 12 04:27:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



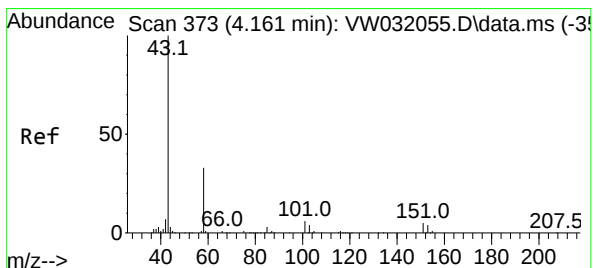
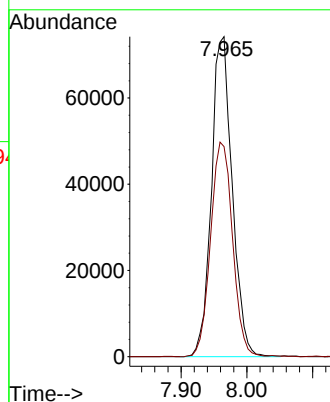
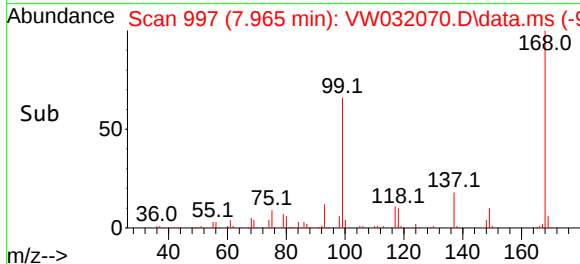


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 996
Delta R.T. 0.006 min
Lab File: VW032070.D
Acq: 11 Aug 2025 16:34

Instrument :
MSVOA_W
ClientSampleId :
B-3-5-2

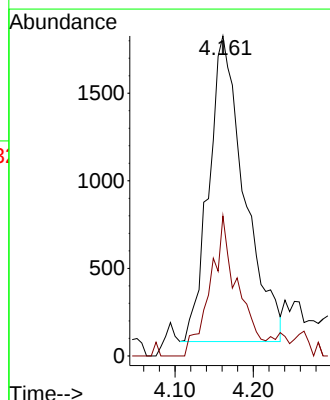
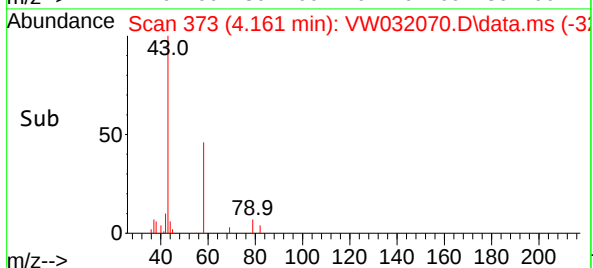
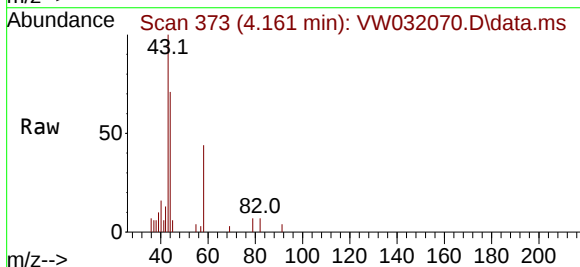


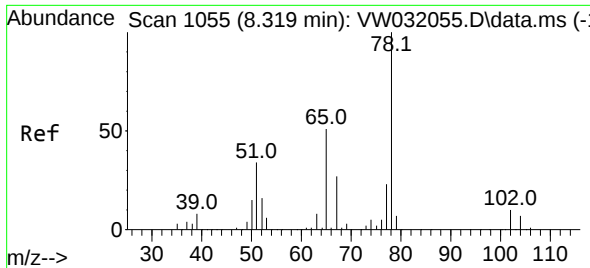
Tgt Ion:168 Resp: 163499
Ion Ratio Lower Upper
168 100
99 65.6 56.0 84.0



#16
Acetone
Concen: 10.077 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032070.D
Acq: 11 Aug 2025 16:34

Tgt Ion: 43 Resp: 5517
Ion Ratio Lower Upper
43 100
58 45.8 26.6 39.8





#33

1,2-Dichloroethane-d4

Concen: 56.829 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VW032070.D

Acq: 11 Aug 2025 16:34

Instrument :

MSVOA_W

ClientSampleId :

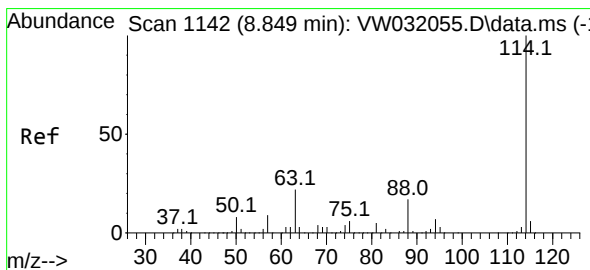
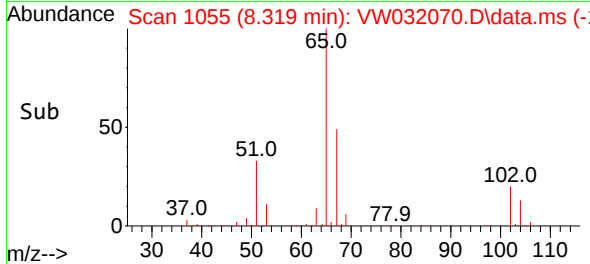
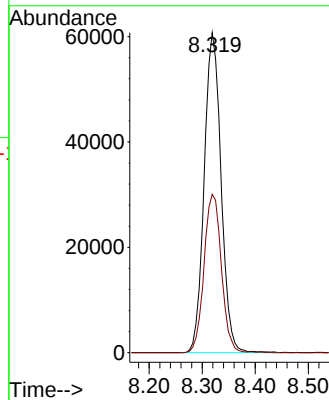
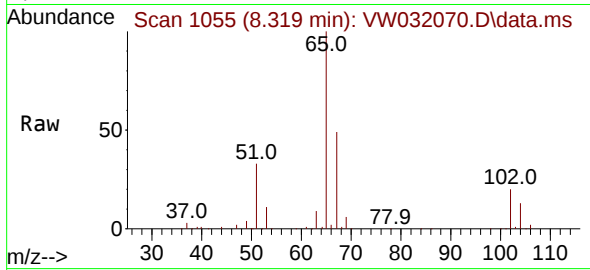
B-3-5-2

Tgt Ion: 65 Resp: 134381

Ion Ratio Lower Upper

65 100

67 50.9 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VW032070.D

Acq: 11 Aug 2025 16:34

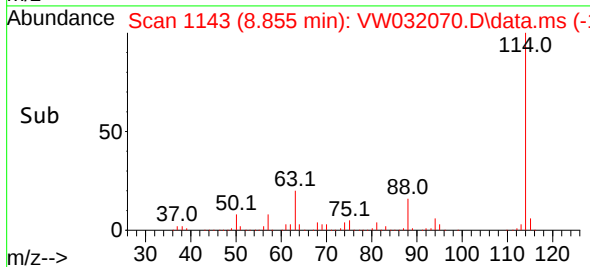
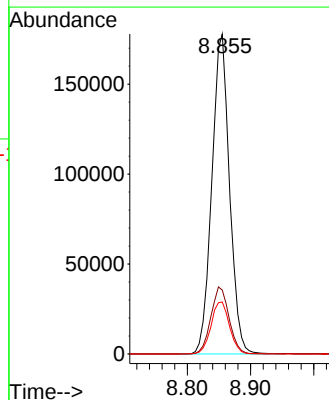
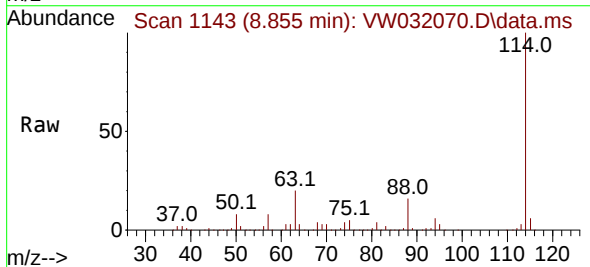
Tgt Ion: 114 Resp: 344516

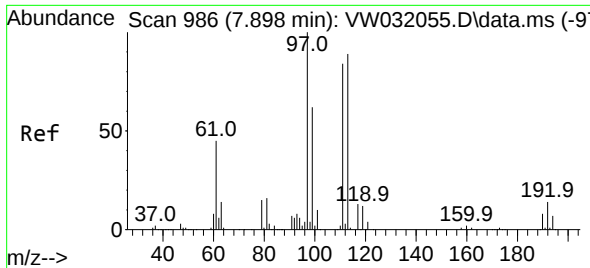
Ion Ratio Lower Upper

114 100

63 20.0 0.0 43.0

88 16.3 0.0 33.8





#35

Dibromofluoromethane

Concen: 53.467 ug/l

RT: 7.898 min Scan# 91

Delta R.T. -0.000 min

Lab File: VW032070.D

Acq: 11 Aug 2025 16:34

Instrument :

MSVOA_W

ClientSampleId :

B-3-5-2

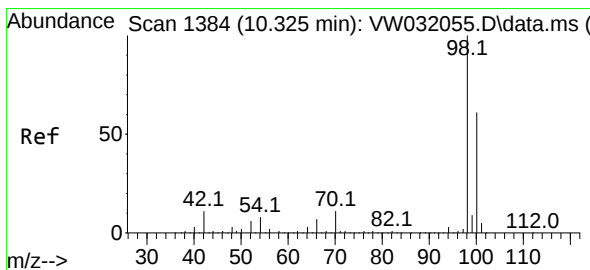
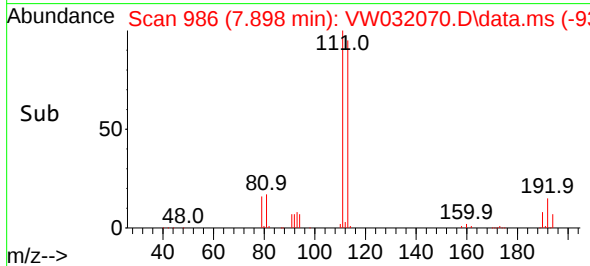
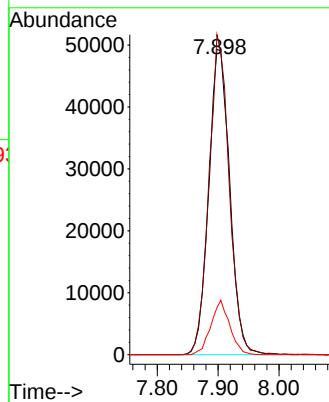
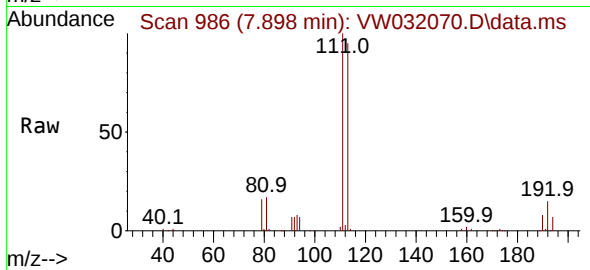
Tgt Ion:113 Resp: 119002

Ion Ratio Lower Upper

113 100

111 100.4 80.1 120.1

192 15.9 13.1 19.7



#50

Toluene-d8

Concen: 49.971 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032070.D

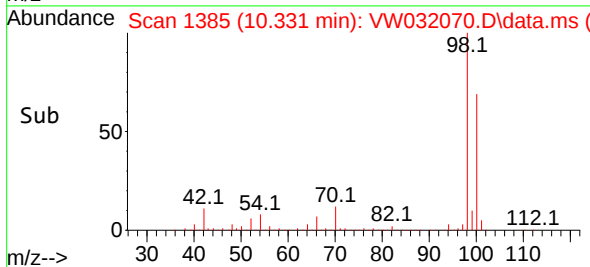
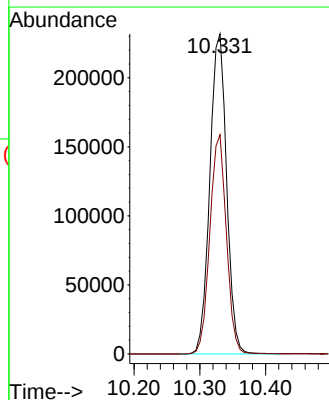
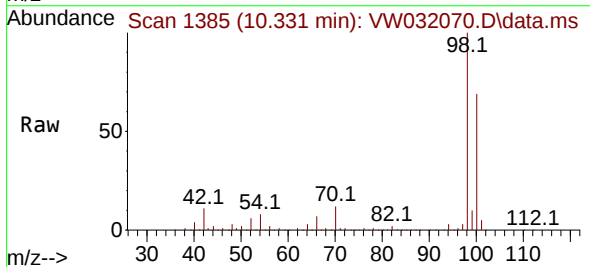
Acq: 11 Aug 2025 16:34

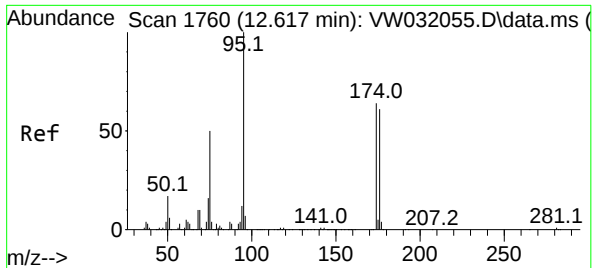
Tgt Ion: 98 Resp: 411374

Ion Ratio Lower Upper

98 100

100 67.5 51.1 76.7

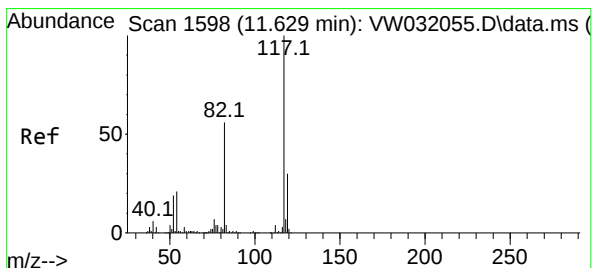
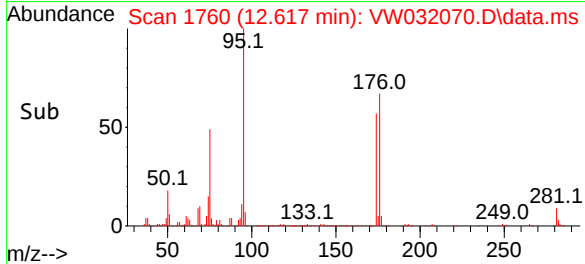
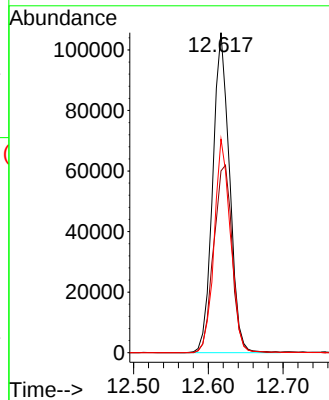
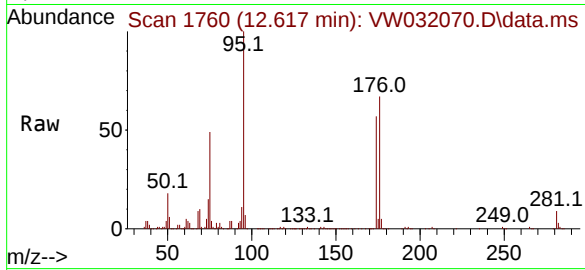




#62
4-Bromofluorobenzene
Concen: 54.427 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032070.D
Acq: 11 Aug 2025 16:34

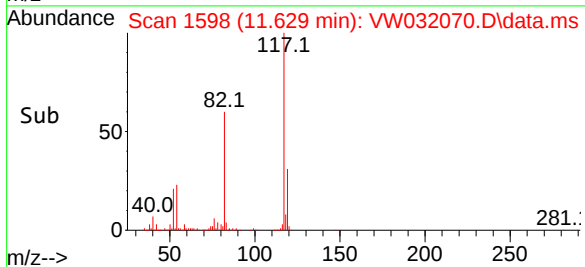
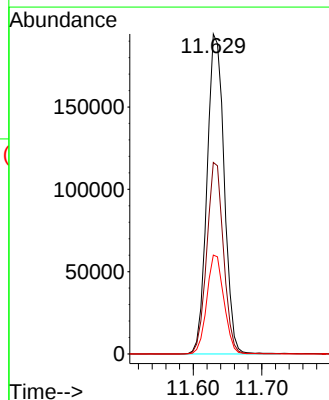
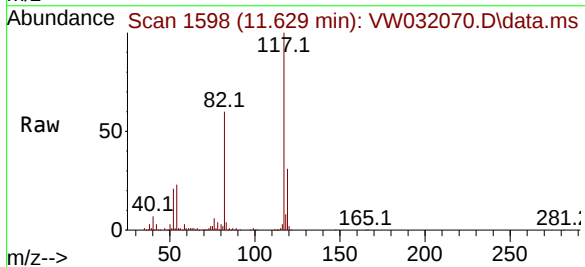
Instrument :
MSVOA_W
ClientSampleId :
B-3-5-2

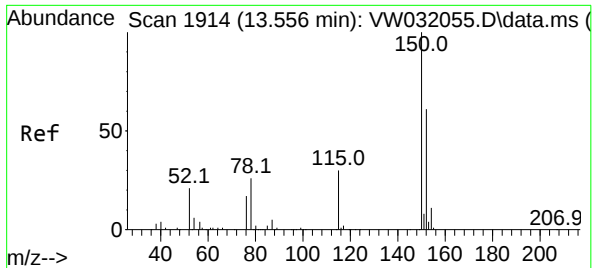
Tgt Ion: 95 Resp: 165115
Ion Ratio Lower Upper
95 100
174 64.1 0.0 129.0
176 65.3 0.0 124.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VW032070.D
Acq: 11 Aug 2025 16:34

Tgt Ion: 117 Resp: 338197
Ion Ratio Lower Upper
117 100
82 59.8 45.0 67.4
119 30.9 24.2 36.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032070.D

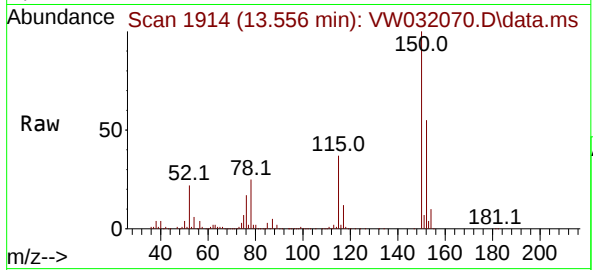
Acq: 11 Aug 2025 16:34

Instrument :

MSVOA_W

ClientSampleId :

B-3-5-2



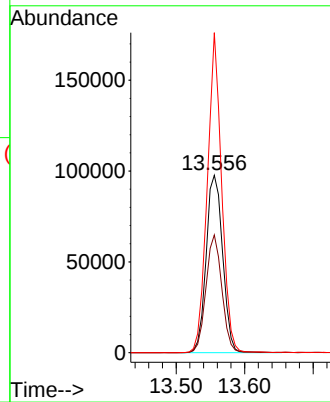
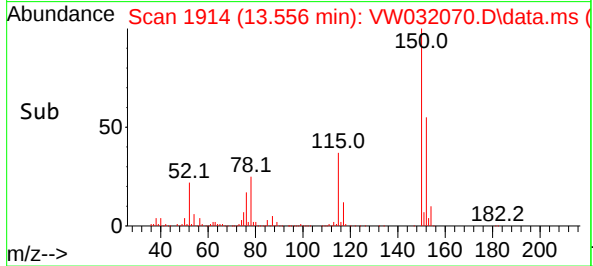
Tgt Ion:152 Resp: 164031

Ion Ratio Lower Upper

152 100

115 63.8 32.6 97.8

150 156.4 0.0 359.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
 Data File : VW032070.D
 Acq On : 11 Aug 2025 16:34
 Operator : SY/MD
 Sample : Q2818-02
 Misc : 5.29g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B-3-5-2

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M

Title : SW846 8260

Signal : TIC: VW032070.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.027	20	23	37	rVB	15370	41084	3.70%	0.626%
2	4.948	491	502	503	rBV4	8110	14979	1.35%	0.228%
3	7.173	857	867	877	rBV	6294	19447	1.75%	0.296%
4	7.898	972	986	991	rBV	158664	377248	34.01%	5.747%
5	7.959	991	996	1011	rVB	238506	543069	48.97%	8.274%
6	8.319	1046	1055	1065	rBV	160692	360243	32.48%	5.488%
7	8.855	1132	1143	1155	rBV	404698	825170	74.40%	12.571%
8	10.331	1376	1385	1393	rBV	619989	1109091	100.00%	16.897%
9	10.703	1436	1446	1455	rBV	133704	238591	21.51%	3.635%
10	10.831	1460	1467	1473	rVB	7415	13293	1.20%	0.203%
11	11.068	1498	1506	1511	rBV2	11098	18785	1.69%	0.286%
12	11.629	1588	1598	1608	rBV	612068	1059960	95.57%	16.148%
13	12.617	1751	1760	1773	rBV3	488224	843870	76.09%	12.856%
14	13.556	1907	1914	1927	rBV	651878	1041069	93.87%	15.861%
15	14.062	1986	1997	2008	rBV2	21041	45122	4.07%	0.687%
16	14.714	2097	2104	2110	rBV7	6521	12811	1.16%	0.195%

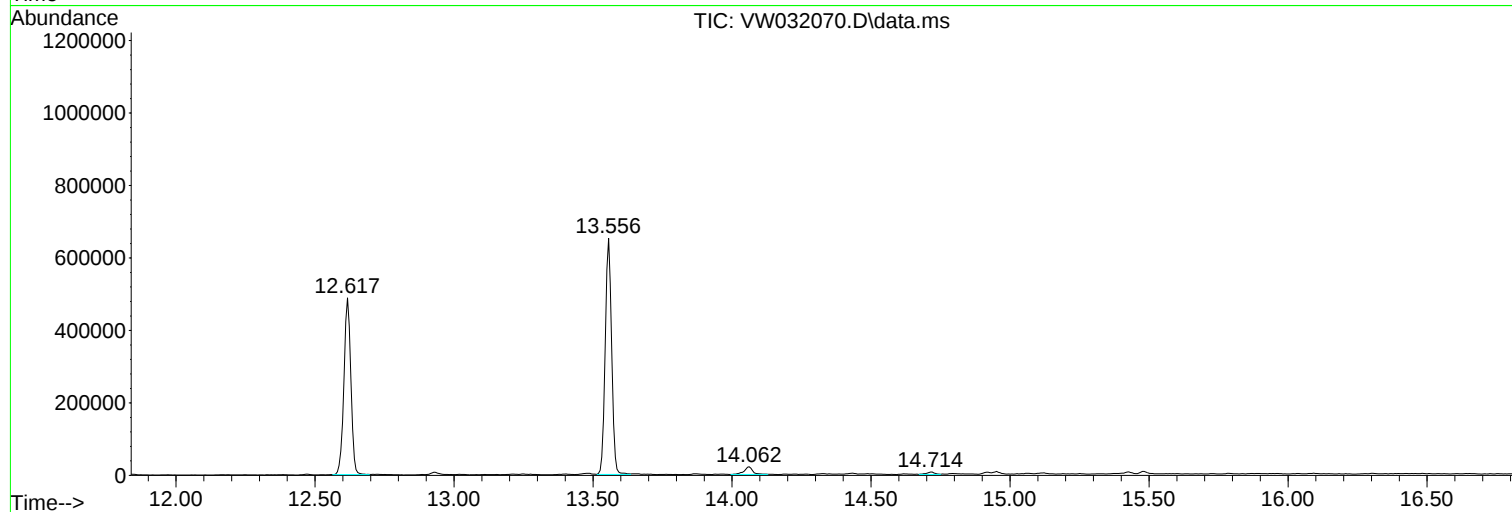
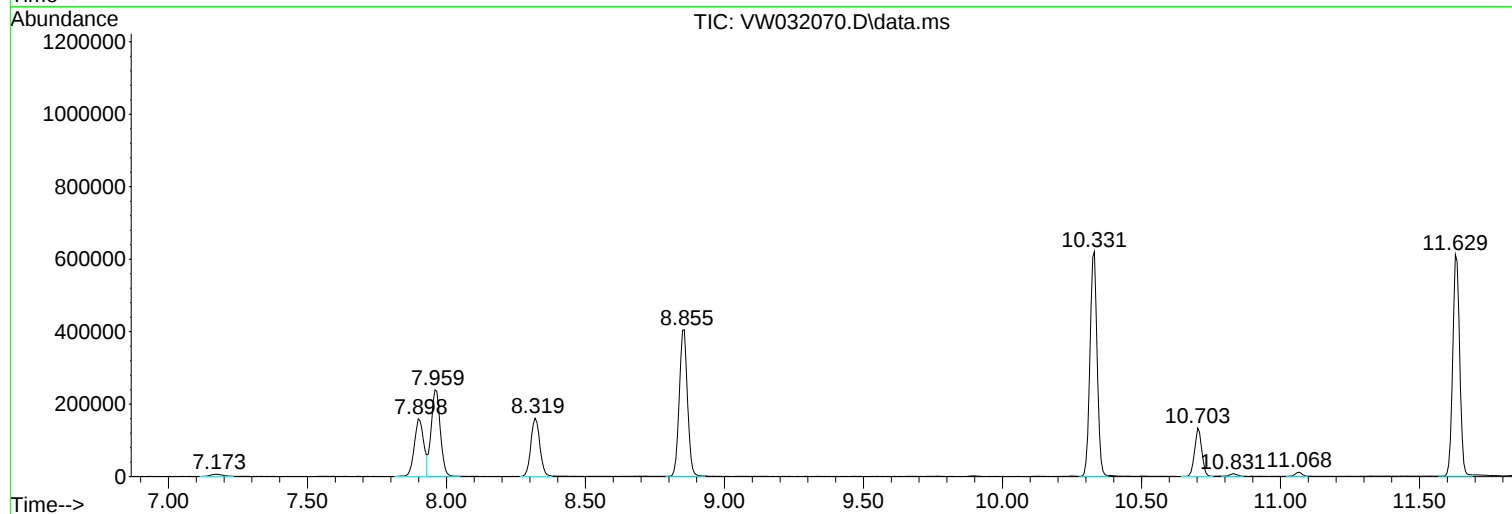
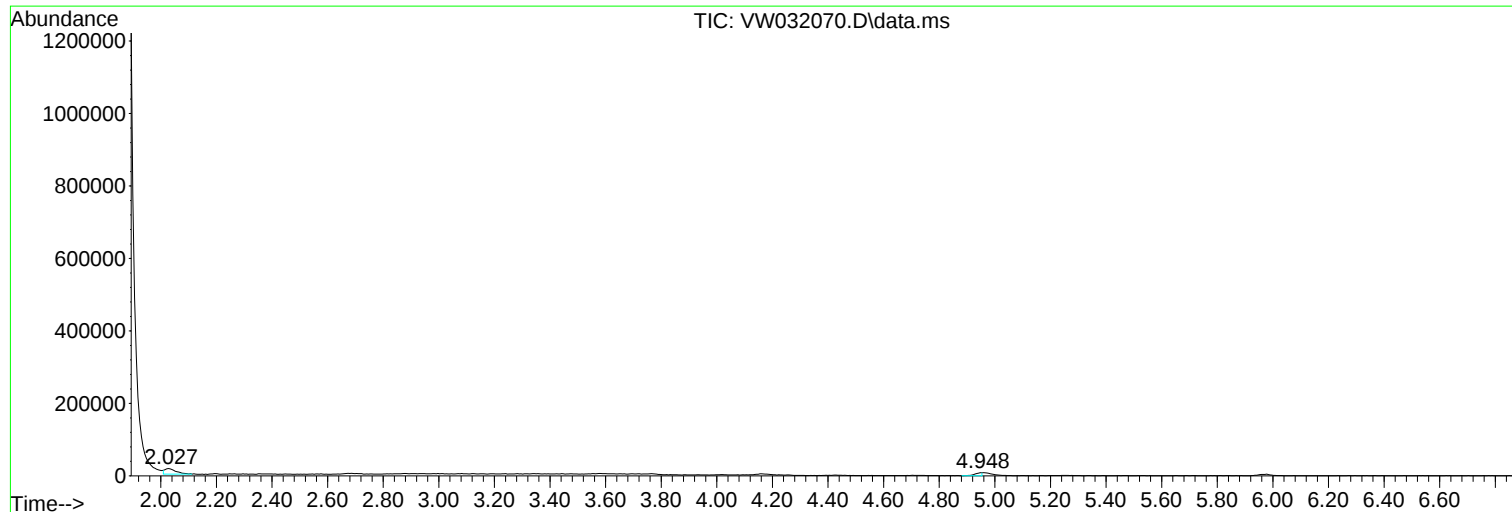
Sum of corrected areas: 6563832

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032070.D
Acq On : 11 Aug 2025 16:34
Operator : SY/MD
Sample : Q2818-02
Misc : 5.29g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B-3-5-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032070.D
Acq On : 11 Aug 2025 16:34
Operator : SY/MD
Sample : Q2818-02
Misc : 5.29g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B-3-5-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A
B
C
D
E
F
G
H
I
J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032070.D
Acq On : 11 Aug 2025 16:34
Operator : SY/MD
Sample : Q2818-02
Misc : 5.29g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B-3-5-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
------------------	----	---------	-------	----------	---	----	------	------

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

Quant Time: Aug 12 04:22:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	176404	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	391811	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	359327	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	169733	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	134172	52.590	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	105.180%
35) Dibromofluoromethane	7.898	113	121027	47.813	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	95.620%
50) Toluene-d8	10.325	98	459644	49.095	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	98.180%
62) 4-Bromofluorobenzene	12.617	95	163583	47.413	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	94.820%

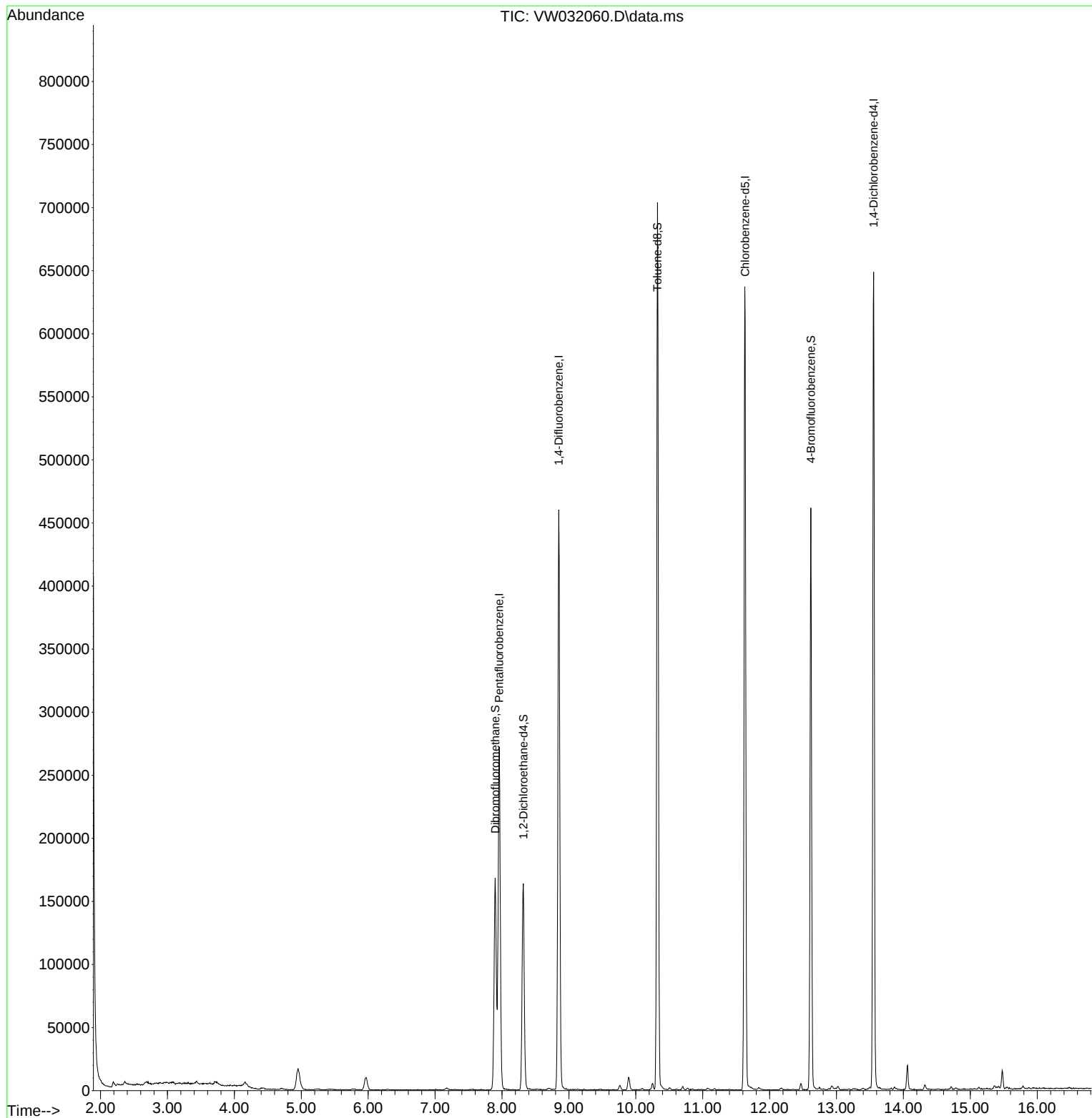
Target Compounds	Qvalue
------------------	--------

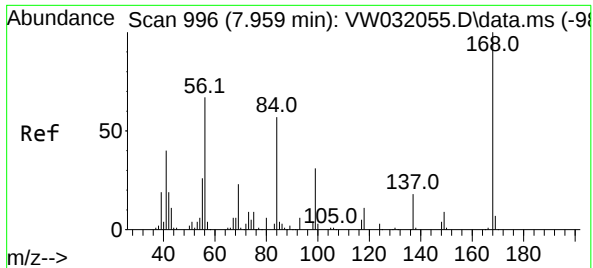
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

Quant Time: Aug 12 04:22:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

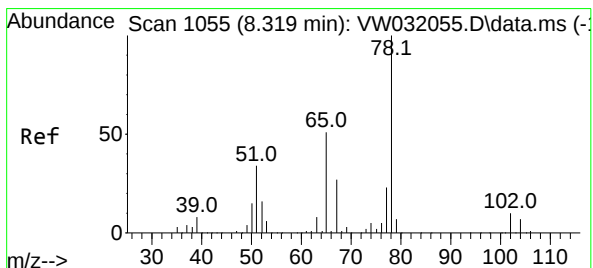
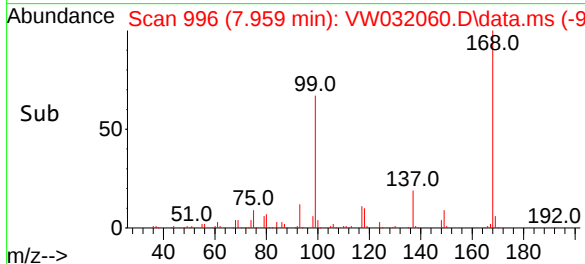
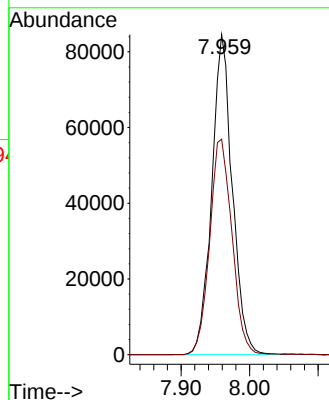
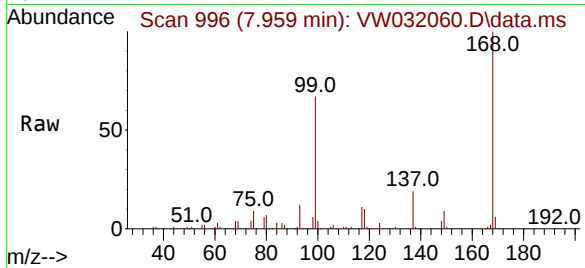




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. 0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

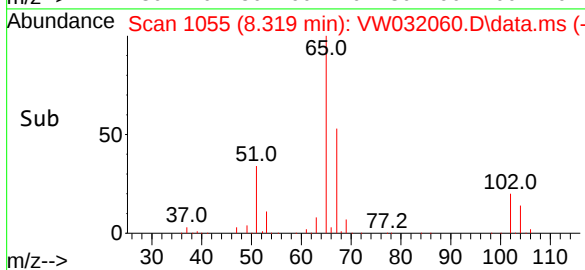
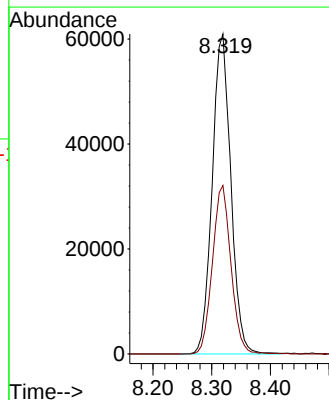
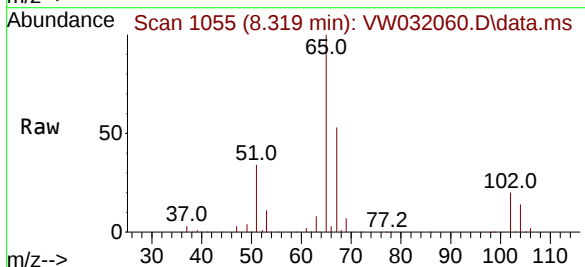
Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

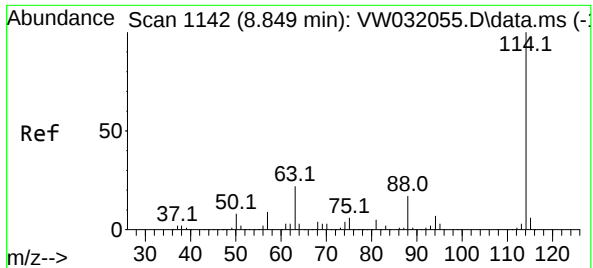
Tgt Ion:168 Resp: 176404
Ion Ratio Lower Upper
168 100
99 67.3 56.0 84.0



#33
1,2-Dichloroethane-d4
Concen: 52.590 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Tgt Ion: 65 Resp: 134172
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VW032060.D

Acq: 11 Aug 2025 12:18

Instrument :

MSVOA_W

ClientSampleId :

VW0811SBL01

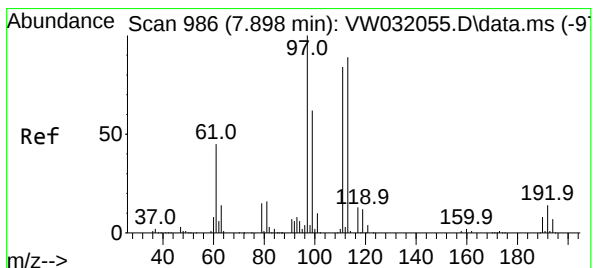
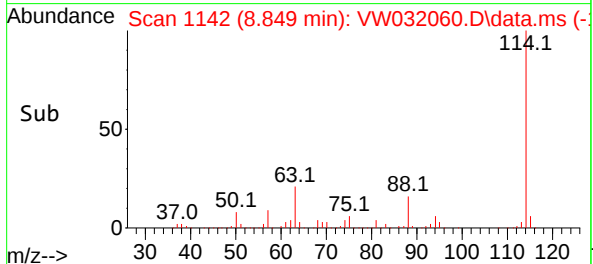
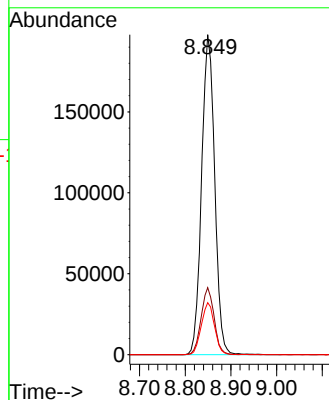
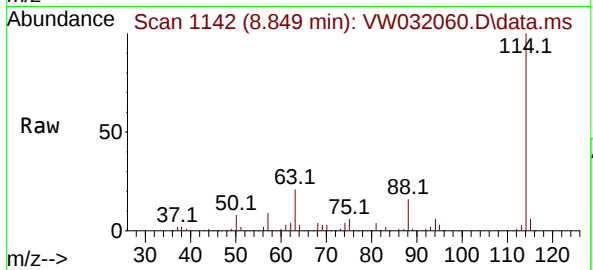
Tgt Ion:114 Resp: 391811

Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.0

88 16.3 0.0 33.8



#35

Dibromofluoromethane

Concen: 47.813 ug/l

RT: 7.898 min Scan# 986

Delta R.T. -0.000 min

Lab File: VW032060.D

Acq: 11 Aug 2025 12:18

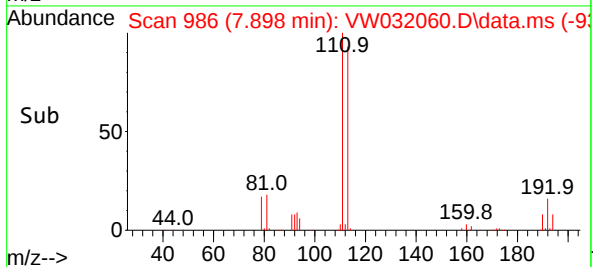
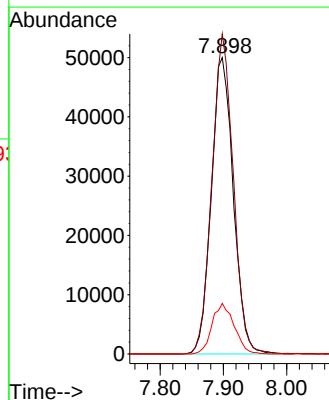
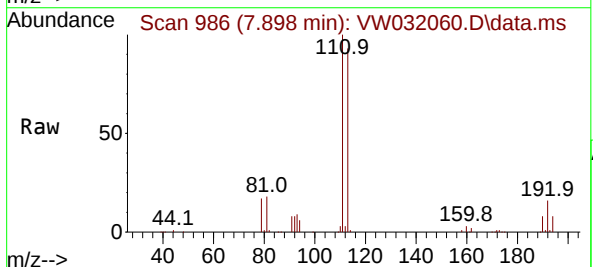
Tgt Ion:113 Resp: 121027

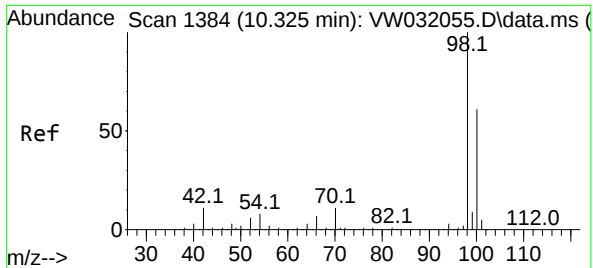
Ion Ratio Lower Upper

113 100

111 104.5 80.1 120.1

192 17.1 13.1 19.7

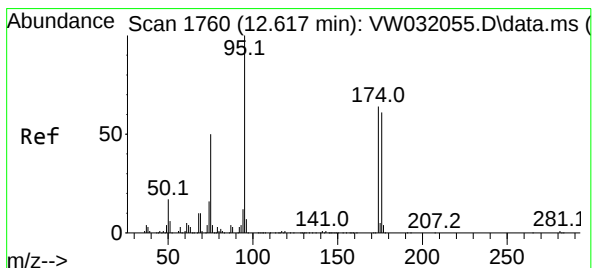
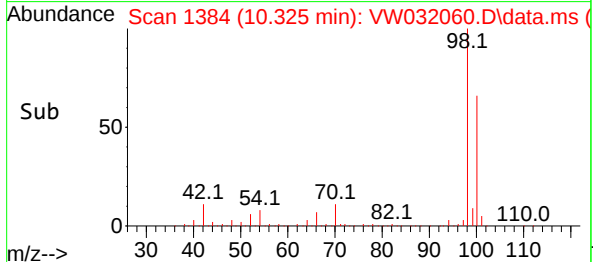
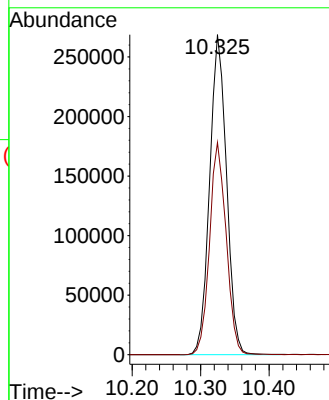
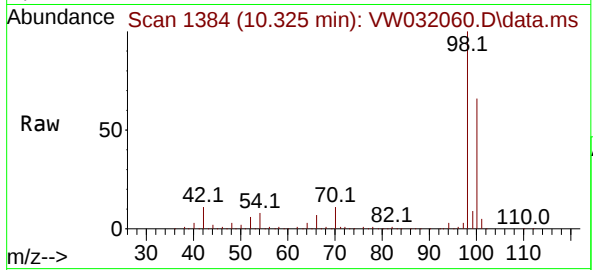




#50
Toluene-d8
Concen: 49.095 ug/l
RT: 10.325 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

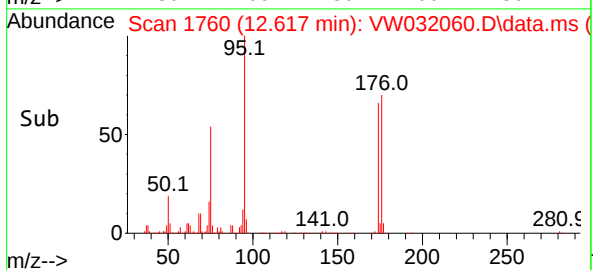
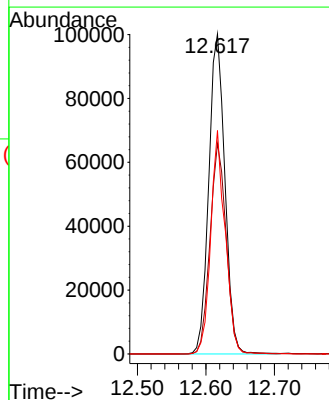
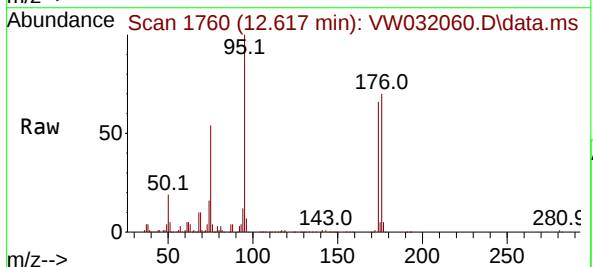
Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

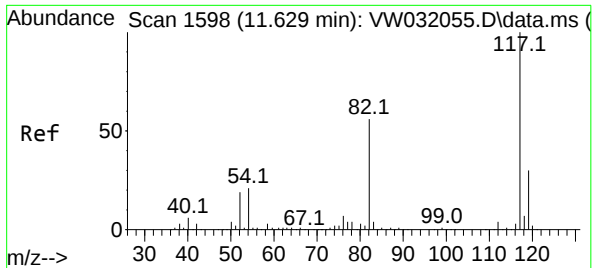
Tgt Ion: 98 Resp: 459644
Ion Ratio Lower Upper
98 100
100 65.4 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 47.413 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

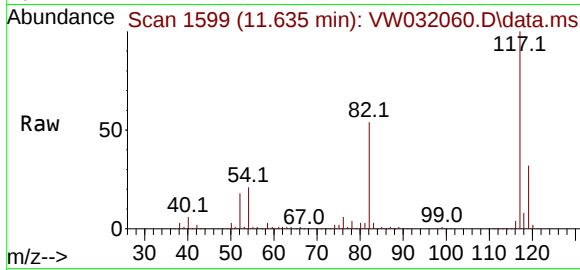
Tgt Ion: 95 Resp: 163583
Ion Ratio Lower Upper
95 100
174 66.1 0.0 129.0
176 62.9 0.0 124.6



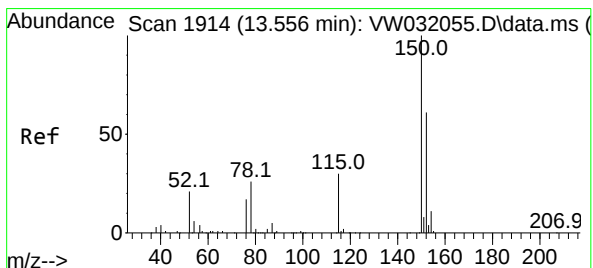
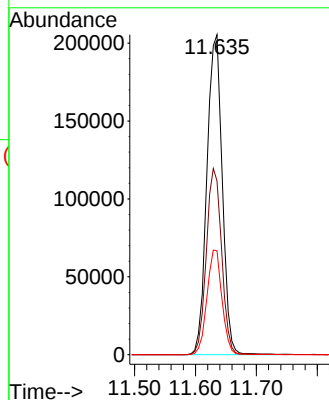
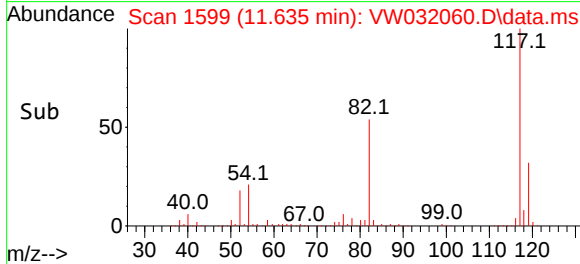


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

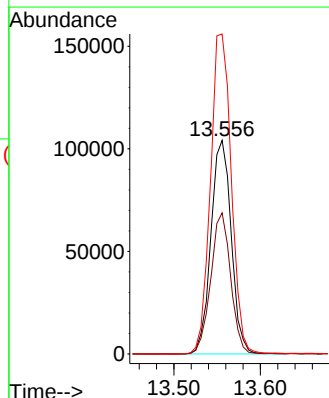
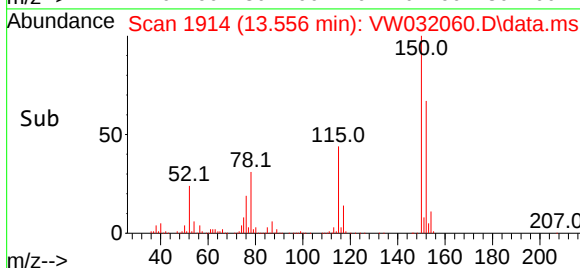
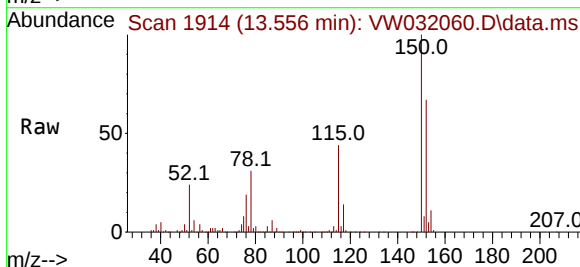


Tgt Ion:117 Resp: 359327
Ion Ratio Lower Upper
117 100
82 54.3 45.0 67.4
119 32.5 24.2 36.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Tgt Ion:152 Resp: 169733
Ion Ratio Lower Upper
152 100
115 64.8 32.6 97.8
150 154.1 0.0 359.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
 Data File : VW032060.D
 Acq On : 11 Aug 2025 12:18
 Operator : SY/MD
 Sample : VW0811SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0811SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M

Title : SW846 8260

Signal : TIC: VW032060.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	490	503	518	rBV2	16589	63163	5.21%	0.961%
2	5.972	659	670	681	rVB2	9721	31421	2.59%	0.478%
3	7.898	976	986	991	rBV	167472	401435	33.08%	6.106%
4	7.959	991	996	1010	rVB	271374	586043	48.30%	8.914%
5	8.319	1045	1055	1066	rBV	163414	363364	29.95%	5.527%
6	8.849	1133	1142	1159	rBV	459336	918657	75.71%	13.974%
7	9.892	1306	1313	1323	rBV2	10139	21637	1.78%	0.329%
8	10.325	1376	1384	1404	rVB	703087	1213427	100.00%	18.457%
9	11.629	1589	1598	1606	rBV	636844	1115847	91.96%	16.973%
10	12.617	1752	1760	1772	rBV	460896	742846	61.22%	11.299%
11	13.556	1907	1914	1925	rBV	646925	1060143	87.37%	16.126%
12	14.062	1990	1997	2003	rBV2	19087	31499	2.60%	0.479%
13	15.476	2223	2229	2235	rVB	14627	24703	2.04%	0.376%

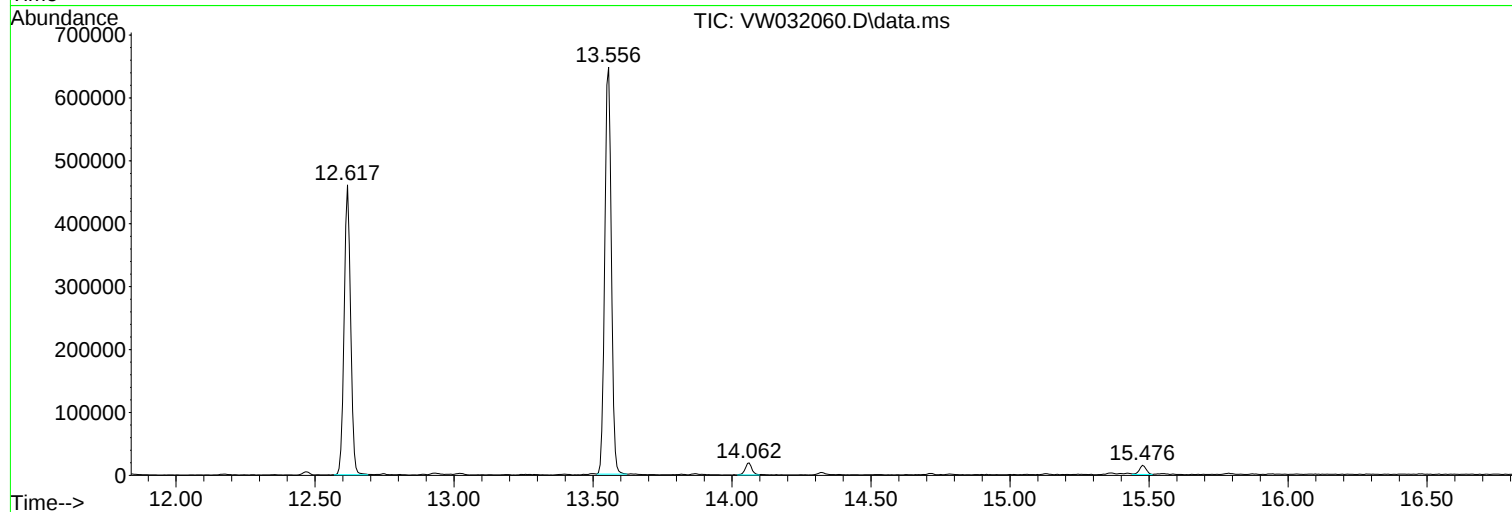
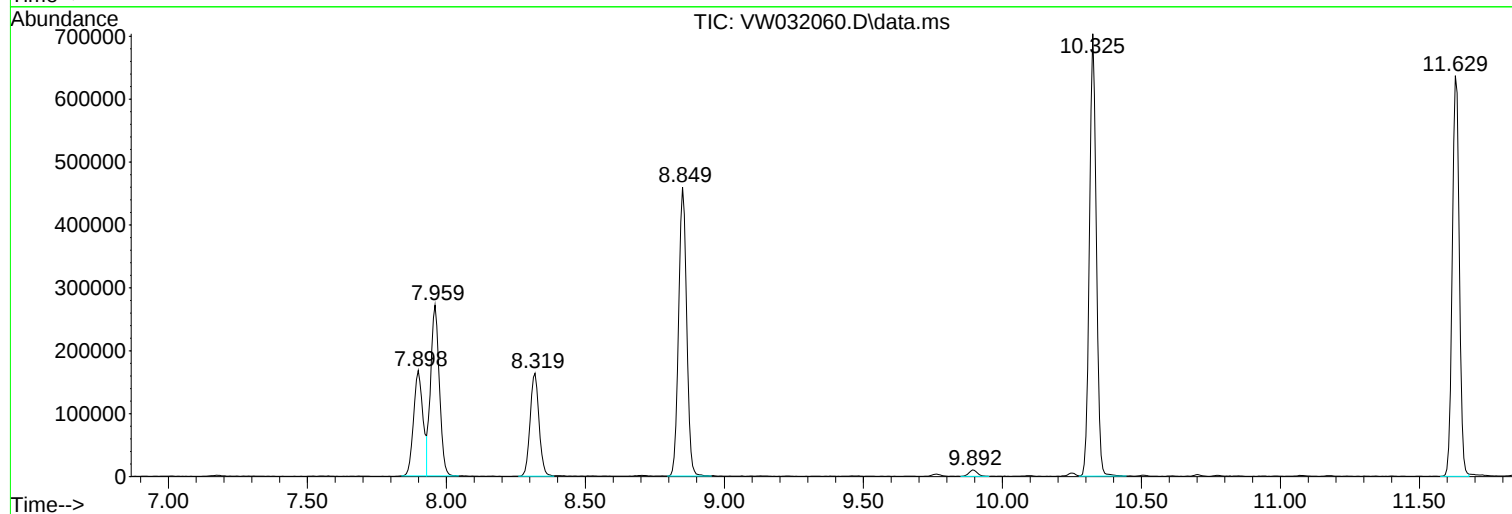
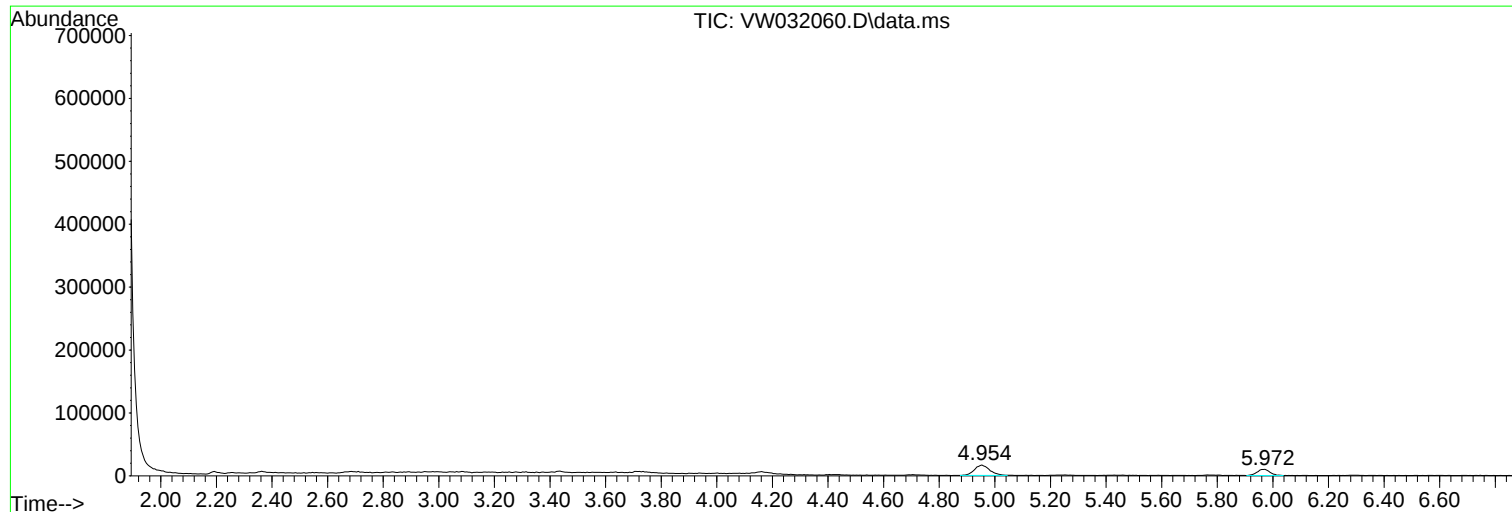
Sum of corrected areas: 6574185

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
 Data File : VW032061.D
 Acq On : 11 Aug 2025 12:48
 Operator : SY/MD
 Sample : VW0811SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0811SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
 Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:23:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 12 04:04:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	224181	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	427747	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	394820	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	191594	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	164557	50.753	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 101.500%	
35) Dibromofluoromethane	7.898	113	135084	48.883	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 97.760%	
50) Toluene-d8	10.325	98	508647	49.765	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 99.520%	
62) 4-Bromofluorobenzene	12.617	95	197267	52.373	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 104.740%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.046	85	34210	21.336	ug/l	99
3) Chloromethane	2.253	50	44827	20.755	ug/l	100
4) Vinyl Chloride	2.405	62	55119	21.098	ug/l	96
5) Bromomethane	2.814	94	42172	21.516	ug/l	100
6) Chloroethane	2.972	64	36005	20.827	ug/l	93
7) Trichlorofluoromethane	3.302	101	36824	17.595	ug/l	97
8) Diethyl Ether	3.716	74	36836	21.483	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.094	101	49645	20.107	ug/l	99
10) Methyl Iodide	4.301	142	76912	21.970	ug/l	99
11) Tert butyl alcohol	5.222	59	21680	103.263	ug/l	99
12) 1,1-Dichloroethene	4.076	96	55559	20.435	ug/l	98
13) Acrolein	3.923	56	37149	111.050	ug/l	100
14) Allyl chloride	4.704	41	84834	21.439	ug/l	100
15) Acrylonitrile	5.399	53	86103	105.428	ug/l	99
16) Acetone	4.155	43	86915	115.783	ug/l	99
17) Carbon Disulfide	4.417	76	147760	20.248	ug/l	97
18) Methyl Acetate	4.704	43	51464	21.665	ug/l	99
19) Methyl tert-butyl Ether	5.454	73	104973	21.914	ug/l	99
20) Methylene Chloride	4.948	84	74303	21.408	ug/l	96
21) trans-1,2-Dichloroethene	5.454	96	59717	20.698	ug/l	96
22) Diisopropyl ether	6.338	45	180946	21.692	ug/l	98
23) Vinyl Acetate	6.283	43	585943	106.987	ug/l	99
24) 1,1-Dichloroethane	6.240	63	111769	20.971	ug/l	97
25) 2-Butanone	7.191	43	119059	111.594	ug/l	99
26) 2,2-Dichloropropane	7.185	77	55490	20.753	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	71568	21.221	ug/l	97
28) Bromochloromethane	7.526	49	49722	20.501	ug/l	100
29) Tetrahydrofuran	7.551	42	75818	107.756	ug/l	100
30) Chloroform	7.691	83	119431	21.137	ug/l	99
31) Cyclohexane	7.965	56	92372	19.992	ug/l	96
32) 1,1,1-Trichloroethane	7.880	97	84982	20.707	ug/l	97
36) 1,1-Dichloropropene	8.093	75	78541	20.161	ug/l	99
37) Ethyl Acetate	7.270	43	48130	20.977	ug/l	99
38) Carbon Tetrachloride	8.081	117	75079	19.971	ug/l	92
39) Methylcyclohexane	9.343	83	94968	20.000	ug/l	93
40) Benzene	8.337	78	254209	20.993	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
 Data File : VW032061.D
 Acq On : 11 Aug 2025 12:48
 Operator : SY/MD
 Sample : VW0811SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0811SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
 Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:23:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 12 04:04:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	28577	21.963	ug/l	98
42) 1,2-Dichloroethane	8.410	62	81049	20.917	ug/l	98
43) Isopropyl Acetate	8.435	43	86573	20.509	ug/l	99
44) Trichloroethene	9.099	130	58362	20.238	ug/l	99
45) 1,2-Dichloropropane	9.374	63	61430	20.998	ug/l	100
46) Dibromomethane	9.465	93	38496	20.389	ug/l	97
47) Bromodichloromethane	9.648	83	88565	20.356	ug/l	96
48) Methyl methacrylate	9.441	41	43518	21.354	ug/l	98
49) 1,4-Dioxane	9.459	88	9712	397.829	ug/l	97
51) 4-Methyl-2-Pentanone	10.209	43	253567	106.423	ug/l	99
52) Toluene	10.386	92	160474	21.039	ug/l	98
53) t-1,3-Dichloropropene	10.605	75	83098	20.387	ug/l	99
54) cis-1,3-Dichloropropene	10.075	75	96489	20.866	ug/l	98
55) 1,1,2-Trichloroethane	10.788	97	52115	20.771	ug/l	98
56) Ethyl methacrylate	10.648	69	71491	21.293	ug/l	98
57) 1,3-Dichloropropane	10.934	76	91289	20.874	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	195002	105.002	ug/l	99
59) 2-Hexanone	10.971	43	178926	108.432	ug/l	99
60) Dibromochloromethane	11.129	129	58977	20.578	ug/l	97
61) 1,2-Dibromoethane	11.239	107	51647	21.183	ug/l	100
64) Tetrachloroethene	10.861	164	48059	21.074	ug/l	97
65) Chlorobenzene	11.660	112	173499	20.189	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.727	131	53383	19.910	ug/l	99
67) Ethyl Benzene	11.727	91	293010	20.129	ug/l	96
68) m/p-Xylenes	11.837	106	229740	40.901	ug/l	98
69) o-Xylene	12.166	106	110031	21.194	ug/l	95
70) Styrene	12.178	104	192666	20.893	ug/l	98
71) Bromoform	12.349	173	30108	19.630	ug/l #	97
73) Isopropylbenzene	12.465	105	266790	19.925	ug/l	99
74) N-amyl acetate	12.269	43	78852	20.526	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	63958	20.118	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	48380m	18.605	ug/l	
77) Bromobenzene	12.745	156	65314	20.423	ug/l	98
78) n-propylbenzene	12.800	91	339857	20.616	ug/l	98
79) 2-Chlorotoluene	12.885	91	209277	20.570	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	238429	20.975	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.513	75	18566	18.484	ug/l	92
82) 4-Chlorotoluene	12.983	91	222101	20.547	ug/l	100
83) tert-Butylbenzene	13.202	119	196393	20.817	ug/l	97
84) 1,2,4-Trimethylbenzene	13.245	105	241596	20.878	ug/l	99
85) sec-Butylbenzene	13.379	105	282666	19.818	ug/l	99
86) p-Isopropyltoluene	13.495	119	238749	20.078	ug/l	98
87) 1,3-Dichlorobenzene	13.495	146	129585	20.364	ug/l	96
88) 1,4-Dichlorobenzene	13.574	146	132968	20.677	ug/l	100
89) n-Butylbenzene	13.818	91	235392	20.377	ug/l	98
90) Hexachloroethane	14.092	117	41522	19.094	ug/l	98
91) 1,2-Dichlorobenzene	13.867	146	116780	20.259	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	11343	20.070	ug/l	98
93) 1,2,4-Trichlorobenzene	15.123	180	67394	19.544	ug/l	99
94) Hexachlorobutadiene	15.226	225	31990	20.753	ug/l	93
95) Naphthalene	15.360	128	173199	20.498	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	67287	21.446	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 12 04:23:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

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

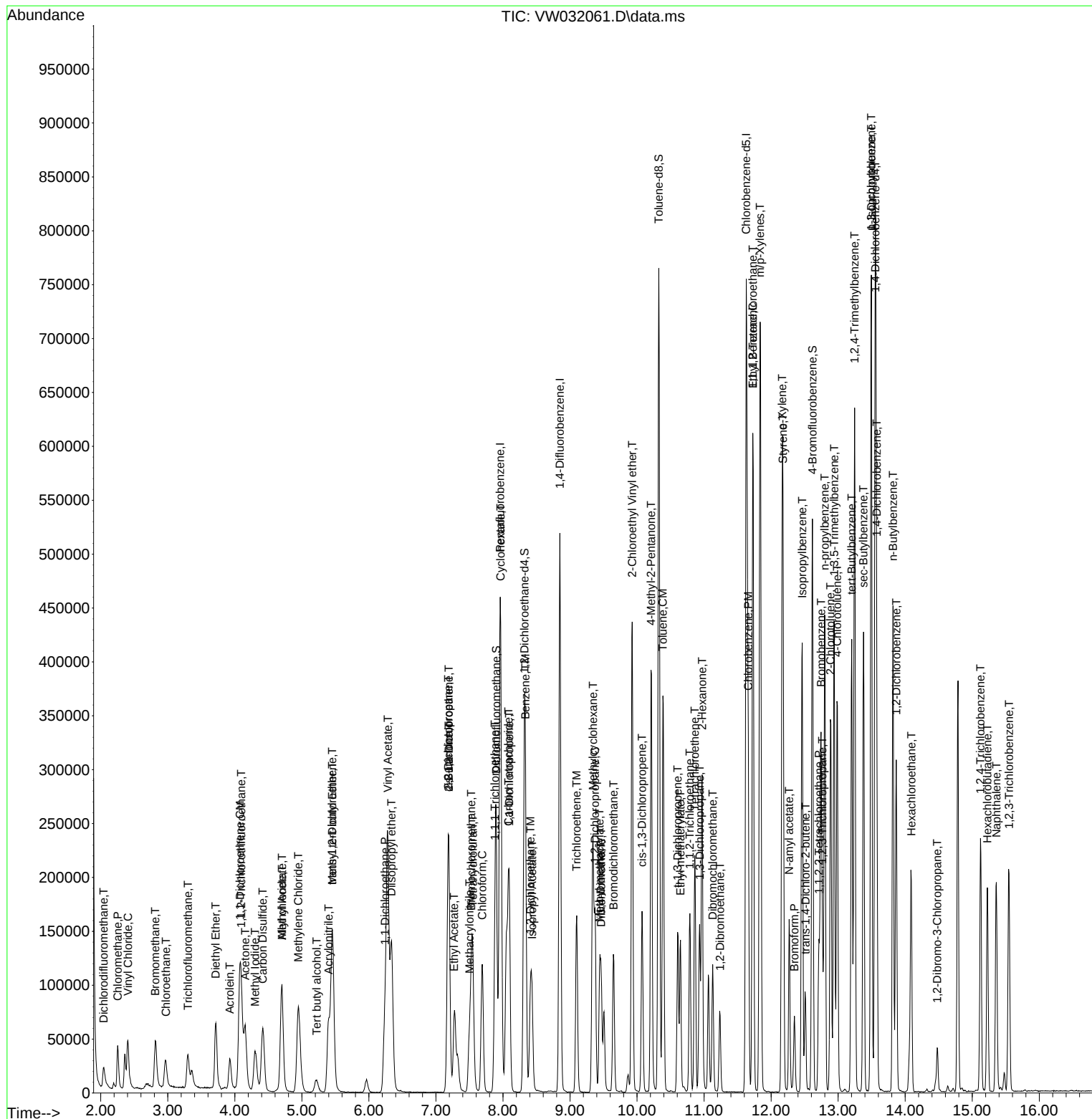
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SB501
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:23:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
 Data File : VW032062.D
 Acq On : 11 Aug 2025 13:10
 Operator : SY/MD
 Sample : VW0811SBSD01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0811SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
 Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:24:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 12 04:04:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	226773	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	441696	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	400240	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	195548	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	163196	49.758	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	99.520%
35) Dibromofluoromethane	7.904	113	134207	47.032	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	94.060%
50) Toluene-d8	10.331	98	509734	48.296	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	96.600%
62) 4-Bromofluorobenzene	12.617	95	193625	49.782	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	99.560%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.046	85	33141	20.433	ug/l	95
3) Chloromethane	2.253	50	46903	21.468	ug/l	96
4) Vinyl Chloride	2.405	62	54316	20.553	ug/l	95
5) Bromomethane	2.820	94	41922	21.144	ug/l	99
6) Chloroethane	2.972	64	36568	20.911	ug/l	100
7) Trichlorofluoromethane	3.308	101	43905	20.739	ug/l	93
8) Diethyl Ether	3.722	74	36629	21.118	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.100	101	49478	19.810	ug/l	99
10) Methyl Iodide	4.307	142	73761	20.829	ug/l	98
11) Tert butyl alcohol	5.222	59	22637	106.589	ug/l	98
12) 1,1-Dichloroethene	4.076	96	55617	20.223	ug/l	92
13) Acrolein	3.929	56	36383	107.518	ug/l	99
14) Allyl chloride	4.698	41	83613	20.889	ug/l	99
15) Acrylonitrile	5.405	53	88342	106.933	ug/l	99
16) Acetone	4.155	43	82994	109.296	ug/l	99
17) Carbon Disulfide	4.423	76	147711	20.010	ug/l	98
18) Methyl Acetate	4.710	43	51758	21.540	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	105734	21.820	ug/l	96
20) Methylene Chloride	4.947	84	75897	21.617	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	59755	20.474	ug/l	93
22) Diisopropyl ether	6.337	45	181364	21.493	ug/l	92
23) Vinyl Acetate	6.283	43	596458	107.662	ug/l	99
24) 1,1-Dichloroethane	6.246	63	110715	20.536	ug/l	98
25) 2-Butanone	7.191	43	119355	110.592	ug/l	100
26) 2,2-Dichloropropane	7.191	77	57308	21.188	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	71058	20.829	ug/l	99
28) Bromochloromethane	7.532	49	49164	20.039	ug/l	99
29) Tetrahydrofuran	7.557	42	77560	108.972	ug/l	100
30) Chloroform	7.691	83	119914	20.980	ug/l	97
31) Cyclohexane	7.971	56	94081	20.129	ug/l	95
32) 1,1,1-Trichloroethane	7.886	97	84762	20.417	ug/l	98
36) 1,1-Dichloropropene	8.099	75	79280	19.708	ug/l	99
37) Ethyl Acetate	7.276	43	48057	20.284	ug/l	98
38) Carbon Tetrachloride	8.087	117	76962	19.825	ug/l	88
39) Methylcyclohexane	9.343	83	98634	20.117	ug/l	95
40) Benzene	8.337	78	252942	20.229	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
 Data File : VW032062.D
 Acq On : 11 Aug 2025 13:10
 Operator : SY/MD
 Sample : VW0811SBSD01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0811SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
 Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:24:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 12 04:04:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	27124	20.188	ug/l	93
42) 1,2-Dichloroethane	8.416	62	83160	20.784	ug/l	99
43) Isopropyl Acetate	8.435	43	88890	20.393	ug/l	100
44) Trichloroethene	9.105	130	59840	20.095	ug/l	97
45) 1,2-Dichloropropane	9.373	63	60825	20.135	ug/l	95
46) Dibromomethane	9.465	93	39289	20.151	ug/l	98
47) Bromodichloromethane	9.654	83	89761	19.980	ug/l	96
48) Methyl methacrylate	9.441	41	43222	20.539	ug/l	99
49) 1,4-Dioxane	9.465	88	10586	419.936	ug/l	87
51) 4-Methyl-2-Pentanone	10.215	43	257970	104.852	ug/l	100
52) Toluene	10.392	92	161185	20.465	ug/l	100
53) t-1,3-Dichloropropene	10.611	75	84143	19.991	ug/l	99
54) cis-1,3-Dichloropropene	10.081	75	97621	20.444	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	53687	20.722	ug/l	97
56) Ethyl methacrylate	10.648	69	72299	20.854	ug/l	97
57) 1,3-Dichloropropane	10.934	76	90595	20.061	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	192035	100.139	ug/l	99
59) 2-Hexanone	10.971	43	180946	106.193	ug/l	100
60) Dibromochloromethane	11.129	129	59430	20.081	ug/l	100
61) 1,2-Dibromoethane	11.233	107	52100	20.693	ug/l	99
64) Tetrachloroethene	10.867	164	47470	20.534	ug/l	91
65) Chlorobenzene	11.660	112	176392	20.247	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.733	131	54330	19.988	ug/l	96
67) Ethyl Benzene	11.727	91	302504	20.500	ug/l	97
68) m/p-Xylenes	11.836	106	231893	40.725	ug/l	96
69) o-Xylene	12.166	106	107543	20.434	ug/l	99
70) Styrene	12.178	104	194078	20.761	ug/l	100
71) Bromoform	12.349	173	31350	20.163	ug/l #	99
73) Isopropylbenzene	12.464	105	266409	19.494	ug/l	99
74) N-amyl acetate	12.269	43	79492	20.275	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.714	83	66644	20.539	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	57672m	21.730	ug/l	
77) Bromobenzene	12.745	156	67682	20.736	ug/l	97
78) n-propylbenzene	12.800	91	340328	20.228	ug/l	100
79) 2-Chlorotoluene	12.891	91	209148	20.142	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	234936	20.250	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.513	75	19731	19.247	ug/l	92
82) 4-Chlorotoluene	12.989	91	220054	19.946	ug/l	98
83) tert-Butylbenzene	13.202	119	194628	20.213	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	247687	20.972	ug/l	99
85) sec-Butylbenzene	13.379	105	295479	20.297	ug/l	98
86) p-Isopropyltoluene	13.495	119	247079	20.359	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	134680	20.737	ug/l	97
88) 1,4-Dichlorobenzene	13.574	146	136123	20.740	ug/l	98
89) n-Butylbenzene	13.818	91	235344	19.961	ug/l	99
90) Hexachloroethane	14.086	117	41787	18.827	ug/l	99
91) 1,2-Dichlorobenzene	13.867	146	122421	20.808	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.482	75	11304	19.597	ug/l	99
93) 1,2,4-Trichlorobenzene	15.122	180	71854	20.416	ug/l	95
94) Hexachlorobutadiene	15.226	225	30590	19.444	ug/l	99
95) Naphthalene	15.360	128	174401	20.223	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	65985	20.606	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 12 04:24:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

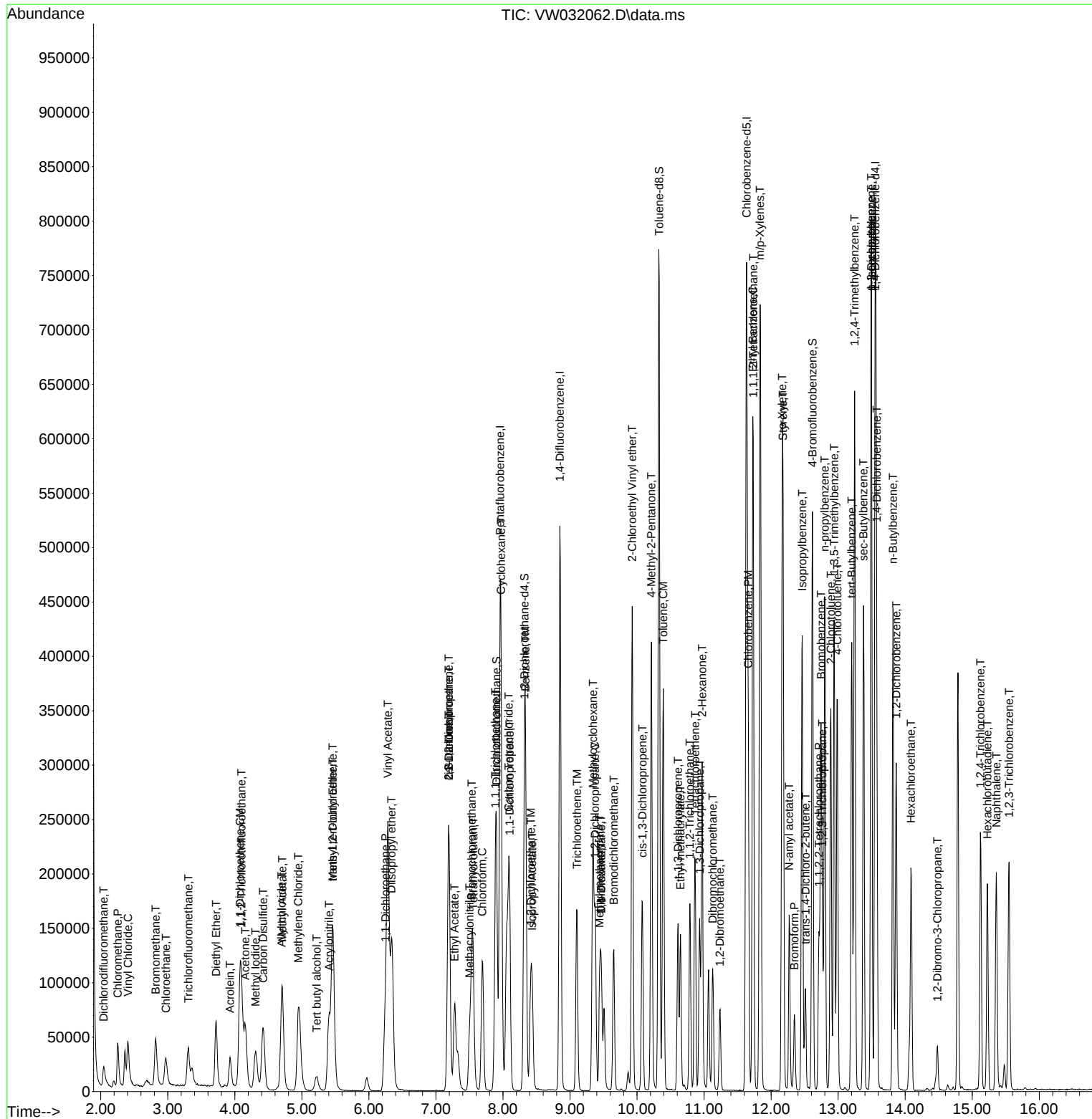
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



Manual Integration Report

Sequence:	vw081125	Instrument	MSVOA_w
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VW032052.D	1,2,3-Trichloropropane	MMDadod a	8/12/2025 1:11:01 PM	SAM	8/12/2025 1:13:53 PM	Peak Integrated by Software
VSTDIC010	VW032053.D	1,2,3-Trichloropropane	MMDadod a	8/12/2025 1:10:59 PM	SAM	8/12/2025 1:13:55 PM	Peak Integrated by Software
VSTDIC020	VW032054.D	1,2,3-Trichloropropane	MMDadod a	8/12/2025 1:10:56 PM	SAM	8/12/2025 1:13:56 PM	Peak Integrated by Software
VSTDIC050	VW032055.D	1,2,3-Trichloropropane	MMDadod a	8/12/2025 1:10:54 PM	SAM	8/12/2025 1:13:57 PM	Peak Integrated by Software
VSTDIC100	VW032056.D	1,2,3-Trichloropropane	MMDadod a	8/12/2025 1:10:53 PM	SAM	8/12/2025 1:13:59 PM	Peak Integrated by Software
VSTDIC150	VW032057.D	1,2,3-Trichloropropane	MMDadod a	8/12/2025 1:10:51 PM	SAM	8/12/2025 1:14:01 PM	Peak Integrated by Software
VSTDICV050	VW032059.D	1,2,3-Trichloropropane	MMDadod a	8/12/2025 1:10:49 PM	SAM	8/12/2025 1:14:02 PM	Peak Integrated by Software
VW0811SBS01	VW032061.D	1,2,3-Trichloropropane	MMDadod a	8/12/2025 1:10:47 PM	SAM	8/12/2025 1:14:04 PM	Peak Integrated by Software
VW0811SBS01 1	VW032062.D	1,2,3-Trichloropropane	MMDadod a	8/12/2025 1:10:46 PM	SAM	8/12/2025 1:14:05 PM	Peak Integrated by Software
VSTDIC050	VW032078.D	1,2,3-Trichloropropane	MMDadod a	8/12/2025 1:10:44 PM	SAM	8/12/2025 1:14:07 PM	Peak Integrated by Software

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW081125

Review By	Maresh Dadoda	Review On	8/12/2025 1:11:21 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/12/2025 1:14:36 PM		
SubDirectory	VW081125	HP Acquire Method	MSVOA_W	HP Processing Method	82w081125s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP135074			
Initial Calibration Stds		VP135075,VP135076,VP135077,VP135078,VP135079,VP135080			
CCC		VP135082			
Internal Standard/PEM		VP133934			
ICV/I.BLK		VP135081			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032051.D	11 Aug 2025 07:53	SY/MD	Ok
2	VSTDIC005	VW032052.D	11 Aug 2025 08:25	SY/MD	Ok,M
3	VSTDIC010	VW032053.D	11 Aug 2025 09:09	SY/MD	Ok,M
4	VSTDIC020	VW032054.D	11 Aug 2025 09:47	SY/MD	Ok,M
5	VSTDIC050	VW032055.D	11 Aug 2025 10:09	SY/MD	Ok,M
6	VSTDIC100	VW032056.D	11 Aug 2025 10:46	SY/MD	Ok,M
7	VSTDIC150	VW032057.D	11 Aug 2025 11:08	SY/MD	Ok,M
8	VIBLK	VW032058.D	11 Aug 2025 11:30	SY/MD	Ok
9	VSTDICV050	VW032059.D	11 Aug 2025 11:51	SY/MD	Ok,M
10	VW0811SBL01	VW032060.D	11 Aug 2025 12:18	SY/MD	Ok
11	VW0811SBS01	VW032061.D	11 Aug 2025 12:48	SY/MD	Ok,M
12	VW0811SBSD01	VW032062.D	11 Aug 2025 13:10	SY/MD	Ok,M
13	Q2807-01	VW032063.D	11 Aug 2025 14:00	SY/MD	Ok
14	Q2807-02	VW032064.D	11 Aug 2025 14:22	SY/MD	Ok
15	Q2807-03	VW032065.D	11 Aug 2025 14:44	SY/MD	Ok
16	Q2808-03	VW032066.D	11 Aug 2025 15:06	SY/MD	Ok
17	Q2809-01	VW032067.D	11 Aug 2025 15:28	SY/MD	Ok
18	Q2823-01	VW032068.D	11 Aug 2025 15:50	SY/MD	Ok
19	Q2818-01	VW032069.D	11 Aug 2025 16:12	SY/MD	Ok
20	Q2818-02	VW032070.D	11 Aug 2025 16:34	SY/MD	Ok
21	Q2819-01	VW032071.D	11 Aug 2025 16:56	SY/MD	Ok

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QCBatch ID # VW081125

Review By	Mahesh Dadoda	Review On	8/12/2025 1:11:21 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/12/2025 1:14:36 PM		
SubDirectory	VW081125	HP Acquire Method	MSVOA_W	HP Processing Method	82w081125s.m
STD. NAME	STD REF.#				
Tune/Reschk	VP135074				
Initial Calibration Stds	VP135075,VP135076,VP135077,VP135078,VP135079,VP135080				
CCC	VP135082				
Internal Standard/PEM	VP133934				
ICV/I.BLK	VP135081				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2819-02	VW032072.D	11 Aug 2025 17:18	SY/MD	Ok
23	Q2819-03	VW032073.D	11 Aug 2025 17:41	SY/MD	Ok
24	Q2819-04	VW032074.D	11 Aug 2025 18:03	SY/MD	Ok
25	Q2819-05	VW032075.D	11 Aug 2025 18:25	SY/MD	Ok
26	Q2819-06	VW032076.D	11 Aug 2025 18:47	SY/MD	Ok
27	VIBLK	VW032077.D	11 Aug 2025 19:09	SY/MD	Ok
28	VSTDCCC050	VW032078.D	11 Aug 2025 19:31	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW081125

Review By	Mahesh Dadoda	Review On	8/12/2025 1:11:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	8/12/2025 1:14:36 PM
SubDirectory	VW081125	HP Acquire Method	MSVOA_W HP Processing Method 82w081125s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP135074		
Initial Calibration Stds	VP135075,VP135076,VP135077,VP135078,VP135079,VP135080		
CCC	VP135082		
Internal Standard/PEM	VP133934		
ICV/I.BLK	VP135081		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032051.D	11 Aug 2025 07:53		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VW032052.D	11 Aug 2025 08:25		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VW032053.D	11 Aug 2025 09:09		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VW032054.D	11 Aug 2025 09:47		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VW032055.D	11 Aug 2025 10:09		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VW032056.D	11 Aug 2025 10:46		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VW032057.D	11 Aug 2025 11:08		SY/MD	Ok,M
8	VIBLK	VIBLK	VW032058.D	11 Aug 2025 11:30		SY/MD	Ok
9	VSTDICV050	ICVVW081125	VW032059.D	11 Aug 2025 11:51		SY/MD	Ok,M
10	VW0811SBL01	VW0811SBL01	VW032060.D	11 Aug 2025 12:18		SY/MD	Ok
11	VW0811SBS01	VW0811SBS01	VW032061.D	11 Aug 2025 12:48		SY/MD	Ok,M
12	VW0811SBSD01	VW0811SBSD01	VW032062.D	11 Aug 2025 13:10		SY/MD	Ok,M
13	Q2807-01	COMP-4	VW032063.D	11 Aug 2025 14:00	vial-A	SY/MD	Ok
14	Q2807-02	COMP-5	VW032064.D	11 Aug 2025 14:22	vial-A	SY/MD	Ok
15	Q2807-03	COMP-6	VW032065.D	11 Aug 2025 14:44	vial-A	SY/MD	Ok
16	Q2808-03	TP-7-VOC	VW032066.D	11 Aug 2025 15:06	vial-A	SY/MD	Ok
17	Q2809-01	OR-03-08082025	VW032067.D	11 Aug 2025 15:28	vial-A	SY/MD	Ok
18	Q2823-01	SU-04-081125	VW032068.D	11 Aug 2025 15:50	vial-A	SY/MD	Ok

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW081125

Review By	Mahesh Dadoda	Review On	8/12/2025 1:11:21 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/12/2025 1:14:36 PM		
SubDirectory	VW081125	HP Acquire Method	MSVOA_W	HP Processing Method	82w081125s.m
STD. NAME	STD REF.#				
Tune/Reschk	VP135074				
Initial Calibration Stds	VP135075,VP135076,VP135077,VP135078,VP135079,VP135080				
CCC	VP135082				
Internal Standard/PEM	VP133934				
ICV/I.BLK	VP135081				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2818-01	B-2-5-1	VW032069.D	11 Aug 2025 16:12	vial-A	SY/MD	Ok
20	Q2818-02	B-3-5-2	VW032070.D	11 Aug 2025 16:34	vial-A	SY/MD	Ok
21	Q2819-01	22BP-N	VW032071.D	11 Aug 2025 16:56	vial-A	SY/MD	Ok
22	Q2819-02	22BP-E	VW032072.D	11 Aug 2025 17:18	vial-A	SY/MD	Ok
23	Q2819-03	22BP-W	VW032073.D	11 Aug 2025 17:41	vial-A	SY/MD	Ok
24	Q2819-04	22BP-S	VW032074.D	11 Aug 2025 18:03	vial-A	SY/MD	Ok
25	Q2819-05	11M-W	VW032075.D	11 Aug 2025 18:25	vial-A	SY/MD	Ok
26	Q2819-06	11M-S	VW032076.D	11 Aug 2025 18:47	vial-A	SY/MD	Ok
27	VIBLK	VIBLK	VW032077.D	11 Aug 2025 19:09		SY/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VW032078.D	11 Aug 2025 19:31		SY/MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID: Q2818
Client: Earth Engineering Inc.
Contact: Frank Dougherty, LSRP

OrderDate: 8/11/2025 11:57:00 AM
Project: Reserve Turgyan Farms
Location: J21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2818-01	B-2-5-1	SOIL	VOC-TCLVOA-10	8260D	08/11/25		08/11/25	08/11/25
Q2818-02	B-3-5-2	SOIL	VOC-TCLVOA-10	8260D	08/11/25		08/11/25	08/11/25