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

Hit Summary Sheet
SW-846

SDG No.: Q2100

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**TP-22**								
Q2100-02	TP-22	SOIL	Acetone		31.7		3.90	20.8	ug/Kg
Q2100-02	TP-22	SOIL	2-Butanone		6.00	J	5.40	20.8	ug/Kg
Q2100-02	TP-22	SOIL	Benzene		21.5		0.66	4.20	ug/Kg
Q2100-02	TP-22	SOIL	m/p-Xylenes		1.30	J	1.00	8.30	ug/Kg
			Total Voc :		60.5				
Q2100-02	TP-22	SOIL	Butane	*	6.00	J	0	0	ug/Kg
			Total Tics :		6.00				
			Total Concentration:		66.5				
Client ID:	**TP-45**								
Q2100-04	TP-45	SOIL	Acetone		7.90	J	4.50	23.5	ug/Kg
			Total Voc :		7.90				
			Total Concentration:		7.90				

SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.4
Sample Wt/Vol:	10.7 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022416.D	1		05/23/25 19:11	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.60	U	0.60	2.60	ug/Kg
74-87-3	Chloromethane	0.60	U	0.60	2.60	ug/Kg
75-01-4	Vinyl Chloride	0.42	U	0.42	2.60	ug/Kg
74-83-9	Bromomethane	0.57	UQ	0.57	2.60	ug/Kg
75-00-3	Chloroethane	0.67	UQ	0.67	2.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.64	U	0.64	2.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.56	U	0.56	2.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.53	U	0.53	2.60	ug/Kg
67-64-1	Acetone	2.50	UQ	2.50	13.2	ug/Kg
75-15-0	Carbon Disulfide	0.56	U	0.56	2.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.39	U	0.39	2.60	ug/Kg
79-20-9	Methyl Acetate	0.81	U	0.81	2.60	ug/Kg
75-09-2	Methylene Chloride	1.90	U	1.90	5.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.45	U	0.45	2.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.42	U	0.42	2.60	ug/Kg
110-82-7	Cyclohexane	0.42	U	0.42	2.60	ug/Kg
78-93-3	2-Butanone	3.50	U	3.50	13.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.51	U	0.51	2.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.40	U	0.40	2.60	ug/Kg
74-97-5	Bromochloromethane	0.61	U	0.61	2.60	ug/Kg
67-66-3	Chloroform	0.44	U	0.44	2.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.49	U	0.49	2.60	ug/Kg
108-87-2	Methylcyclohexane	0.48	U	0.48	2.60	ug/Kg
71-43-2	Benzene	0.42	U	0.42	2.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.42	U	0.42	2.60	ug/Kg
79-01-6	Trichloroethene	0.43	U	0.43	2.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.48	U	0.48	2.60	ug/Kg
75-27-4	Bromodichloromethane	0.41	U	0.41	2.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	1.90	U	1.90	13.2	ug/Kg
108-88-3	Toluene	0.41	U	0.41	2.60	ug/Kg

Raw Data: **VY022416.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.4
Sample Wt/Vol:	10.7 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022416.D	1		05/23/25 19:11	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.34	U	0.34	2.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.33	U	0.33	2.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.49	U	0.49	2.60	ug/Kg
591-78-6	2-Hexanone	2.00	U	2.00	13.2	ug/Kg
124-48-1	Dibromochloromethane	0.46	U	0.46	2.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.47	U	0.47	2.60	ug/Kg
127-18-4	Tetrachloroethene	0.56	U	0.56	2.60	ug/Kg
108-90-7	Chlorobenzene	0.48	U	0.48	2.60	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	0.35	2.60	ug/Kg
179601-23-1	m/p-Xylenes	0.66	U	0.66	5.30	ug/Kg
95-47-6	o-Xylene	0.43	U	0.43	2.60	ug/Kg
100-42-5	Styrene	0.38	U	0.38	2.60	ug/Kg
75-25-2	Bromoform	0.45	U	0.45	2.60	ug/Kg
98-82-8	Isopropylbenzene	0.41	U	0.41	2.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.64	U	0.64	2.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.90	U	0.90	2.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.82	U	0.82	2.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.77	U	0.77	2.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.97	U	0.97	2.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.60	U	1.60	2.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.70	U	1.70	2.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		63 - 155	111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	48.8		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.9		38 - 136	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	304000	7.713			
540-36-3	1,4-Difluorobenzene	547000	8.622			
3114-55-4	Chlorobenzene-d5	452000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	170000	13.353			

Raw Data: **VY022416.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.4
Sample Wt/Vol:	10.7 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022416.D	1		05/23/25 19:11	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84
Sample Wt/Vol:	7.16 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022398.D	1		05/22/25 16:06	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.95	U	0.95	4.20	ug/Kg
74-87-3	Chloromethane	0.95	U	0.95	4.20	ug/Kg
75-01-4	Vinyl Chloride	0.66	U	0.66	4.20	ug/Kg
74-83-9	Bromomethane	0.89	UQ	0.89	4.20	ug/Kg
75-00-3	Chloroethane	1.00	UQ	1.00	4.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.88	U	0.88	4.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.83	U	0.83	4.20	ug/Kg
67-64-1	Acetone	31.7		3.90	20.8	ug/Kg
75-15-0	Carbon Disulfide	0.88	U	0.88	4.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.61	U	0.61	4.20	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.20	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.71	U	0.71	4.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.67	U	0.67	4.20	ug/Kg
110-82-7	Cyclohexane	0.66	U	0.66	4.20	ug/Kg
78-93-3	2-Butanone	6.00	J	5.40	20.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.81	U	0.81	4.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.62	U	0.62	4.20	ug/Kg
74-97-5	Bromochloromethane	0.96	U	0.96	4.20	ug/Kg
67-66-3	Chloroform	0.70	U	0.70	4.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.77	U	0.77	4.20	ug/Kg
108-87-2	Methylcyclohexane	0.76	U	0.76	4.20	ug/Kg
71-43-2	Benzene	21.5		0.66	4.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.66	U	0.66	4.20	ug/Kg
79-01-6	Trichloroethene	0.67	U	0.67	4.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.76	U	0.76	4.20	ug/Kg
75-27-4	Bromodichloromethane	0.65	U	0.65	4.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	20.8	ug/Kg
108-88-3	Toluene	0.65	U	0.65	4.20	ug/Kg

Raw Data: **VY022398.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84
Sample Wt/Vol:	7.16 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022398.D	1		05/22/25 16:06	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.54	U	0.54	4.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.52	U	0.52	4.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.76	U	0.76	4.20	ug/Kg
591-78-6	2-Hexanone	3.10	U	3.10	20.8	ug/Kg
124-48-1	Dibromochloromethane	0.72	U	0.72	4.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.73	U	0.73	4.20	ug/Kg
127-18-4	Tetrachloroethene	0.87	U	0.87	4.20	ug/Kg
108-90-7	Chlorobenzene	0.76	U	0.76	4.20	ug/Kg
100-41-4	Ethyl Benzene	0.56	U	0.56	4.20	ug/Kg
179601-23-1	m/p-Xylenes	1.30	J	1.00	8.30	ug/Kg
95-47-6	o-Xylene	0.68	U	0.68	4.20	ug/Kg
100-42-5	Styrene	0.59	U	0.59	4.20	ug/Kg
75-25-2	Bromoform	0.71	U	0.71	4.20	ug/Kg
98-82-8	Isopropylbenzene	0.65	U	0.65	4.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.50	U	2.50	4.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	48.7		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.3		38 - 136	77%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	231000	7.719			
540-36-3	1,4-Difluorobenzene	414000	8.622			
3114-55-4	Chlorobenzene-d5	326000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.352			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022398.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84
Sample Wt/Vol:	7.16 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022398.D	1		05/22/25 16:06	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000106-97-8	Butane	6.00	J		2.20	ug/Kg

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.2
Sample Wt/Vol:	7.01 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022413.D	1		05/23/25 18:01	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.60	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.72	U	0.72	4.60	ug/Kg
74-83-9	Bromomethane	0.98	UQ	0.98	4.60	ug/Kg
75-00-3	Chloroethane	1.10	UQ	1.10	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.97	U	0.97	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.91	U	0.91	4.60	ug/Kg
67-64-1	Acetone	4.30	UQ	4.30	22.8	ug/Kg
75-15-0	Carbon Disulfide	0.97	U	0.97	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.78	U	0.78	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
110-82-7	Cyclohexane	0.72	U	0.72	4.60	ug/Kg
78-93-3	2-Butanone	6.00	U	6.00	22.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.88	U	0.88	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.68	U	0.68	4.60	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.60	ug/Kg
67-66-3	Chloroform	0.77	U	0.77	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.83	U	0.83	4.60	ug/Kg
71-43-2	Benzene	0.72	U	0.72	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.72	U	0.72	4.60	ug/Kg
79-01-6	Trichloroethene	0.74	U	0.74	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.83	U	0.83	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	22.8	ug/Kg
108-88-3	Toluene	0.71	U	0.71	4.60	ug/Kg

Raw Data: **VY022413.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.2
Sample Wt/Vol:	7.01 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022413.D	1		05/23/25 18:01	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.59	U	0.59	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	22.8	ug/Kg
124-48-1	Dibromochloromethane	0.79	U	0.79	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.80	U	0.80	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.96	U	0.96	4.60	ug/Kg
108-90-7	Chlorobenzene	0.83	U	0.83	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.61	U	0.61	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.10	ug/Kg
95-47-6	o-Xylene	0.75	U	0.75	4.60	ug/Kg
100-42-5	Styrene	0.65	U	0.65	4.60	ug/Kg
75-25-2	Bromoform	0.78	U	0.78	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.71	U	0.71	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	47.9		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.3		38 - 136	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	341000	7.713			
540-36-3	1,4-Difluorobenzene	608000	8.616			
3114-55-4	Chlorobenzene-d5	471000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	165000	13.347			

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.2
Sample Wt/Vol:	7.01 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022413.D	1		05/23/25 18:01	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.2
Sample Wt/Vol:	6.98 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022400.D	1		05/22/25 16:53	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.74	U	0.74	4.70	ug/Kg
74-83-9	Bromomethane	1.00	UQ	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	UQ	1.20	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.94	U	0.94	4.70	ug/Kg
67-64-1	Acetone	7.90	J	4.50	23.5	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.69	U	0.69	4.70	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.70	ug/Kg
75-09-2	Methylene Chloride	3.30	U	3.30	9.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.81	U	0.81	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.75	U	0.75	4.70	ug/Kg
110-82-7	Cyclohexane	0.74	U	0.74	4.70	ug/Kg
78-93-3	2-Butanone	6.10	U	6.10	23.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.91	U	0.91	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.71	U	0.71	4.70	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.70	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.86	U	0.86	4.70	ug/Kg
71-43-2	Benzene	0.74	U	0.74	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.74	U	0.74	4.70	ug/Kg
79-01-6	Trichloroethene	0.76	U	0.76	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.86	U	0.86	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.73	U	0.73	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	23.5	ug/Kg
108-88-3	Toluene	0.73	U	0.73	4.70	ug/Kg

Raw Data: **VY022400.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.2
Sample Wt/Vol:	6.98 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022400.D	1		05/22/25 16:53	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.86	U	0.86	4.70	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	23.5	ug/Kg
124-48-1	Dibromochloromethane	0.82	U	0.82	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.83	U	0.83	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.99	U	0.99	4.70	ug/Kg
108-90-7	Chlorobenzene	0.86	U	0.86	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.40	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	4.70	ug/Kg
100-42-5	Styrene	0.67	U	0.67	4.70	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.73	U	0.73	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	48.7		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.7		38 - 136	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	236000	7.719			
540-36-3	1,4-Difluorobenzene	418000	8.622			
3114-55-4	Chlorobenzene-d5	340000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.353			

Raw Data: **VY022400.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.2
Sample Wt/Vol:	6.98 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022400.D	1		05/22/25 16:53	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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

Surrogate Summary

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2100-01	TP-16	1,2-Dichloroethane-d4	50	55.5	111	63	155
		Dibromofluoromethane	50	51.9	104	70	134
		Toluene-d8	50	48.8	98	74	123
		4-Bromofluorobenzene	50	40.9	82	38	136
Q2100-02	TP-22	1,2-Dichloroethane-d4	50	46.6	93	63	155
		Dibromofluoromethane	50	48.6	97	70	134
		Toluene-d8	50	48.7	97	74	123
		4-Bromofluorobenzene	50	38.3	77	38	136
Q2100-03	TP-21	1,2-Dichloroethane-d4	50	48.8	98	63	155
		Dibromofluoromethane	50	50.0	100	70	134
		Toluene-d8	50	47.9	96	74	123
		4-Bromofluorobenzene	50	37.3	75	38	136
Q2100-04	TP-45	1,2-Dichloroethane-d4	50	50.5	101	63	155
		Dibromofluoromethane	50	51.5	103	70	134
		Toluene-d8	50	48.7	97	74	123
		4-Bromofluorobenzene	50	39.7	79	38	136
VY0522SBL01	VY0522SBL01	1,2-Dichloroethane-d4	50	48.9	98	63	155
		Dibromofluoromethane	50	49.8	100	70	134
		Toluene-d8	50	48.7	97	74	123
		4-Bromofluorobenzene	50	39.5	79	38	136
VY0522SBS01	VY0522SBS01	1,2-Dichloroethane-d4	50	48.4	97	63	155
		Dibromofluoromethane	50	50.3	101	70	134
		Toluene-d8	50	50.3	101	74	123
		4-Bromofluorobenzene	50	47.7	95	38	136
VY0522SBSD01	VY0522SBSD01	1,2-Dichloroethane-d4	50	50.4	101	63	155
		Dibromofluoromethane	50	51.0	102	70	134
		Toluene-d8	50	49.9	100	74	123
		4-Bromofluorobenzene	50	47.1	94	38	136
VY0523SBL01	VY0523SBL01	1,2-Dichloroethane-d4	50	56.1	112	63	155
		Dibromofluoromethane	50	56.7	113	70	134
		Toluene-d8	50	54.7	109	74	123
		4-Bromofluorobenzene	50	44.0	88	38	136
VY0523SBS01	VY0523SBS01	1,2-Dichloroethane-d4	50	50.7	101	63	155
		Dibromofluoromethane	50	53.6	107	70	134
		Toluene-d8	50	53.5	107	74	123
		4-Bromofluorobenzene	50	48.8	98	38	136

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022382.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0522SBS01	Dichlorodifluoromethane	20	19.6	ug/Kg	98			64	136	
	Chloromethane	20	23.3	ug/Kg	117			70	130	
	Vinyl chloride	20	24.9	ug/Kg	125			72	129	
	Bromomethane	20	34.5	ug/Kg	173		*	58	141	
	Chloroethane	20	28.5	ug/Kg	143		*	69	130	
	Trichlorofluoromethane	20	23.4	ug/Kg	117			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.9	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	20.5	ug/Kg	103			79	121	
	Acetone	100	110	ug/Kg	110			60	131	
	Carbon disulfide	20	19.3	ug/Kg	97			45	154	
	Methyl tert-butyl Ether	20	19.6	ug/Kg	98			77	129	
	Methyl Acetate	20	16.6	ug/Kg	83			69	149	
	Methylene Chloride	20	19.0	ug/Kg	95			56	174	
	trans-1,2-Dichloroethene	20	19.7	ug/Kg	99			80	123	
	1,1-Dichloroethane	20	19.4	ug/Kg	97			82	123	
	Cyclohexane	20	18.7	ug/Kg	94			76	122	
	2-Butanone	100	95.4	ug/Kg	95			69	131	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			76	129	
	cis-1,2-Dichloroethene	20	19.9	ug/Kg	100			82	123	
	Bromochloromethane	20	18.6	ug/Kg	93			80	127	
	Chloroform	20	20.1	ug/Kg	101			82	125	
	1,1,1-Trichloroethane	20	19.5	ug/Kg	98			80	126	
	Methylcyclohexane	20	19.2	ug/Kg	96			77	123	
	Benzene	20	19.5	ug/Kg	98			84	121	
	1,2-Dichloroethane	20	19.1	ug/Kg	96			81	126	
	Trichloroethene	20	20.1	ug/Kg	101			83	122	
	1,2-Dichloropropane	20	19.1	ug/Kg	96			83	122	
	Bromodichloromethane	20	19.3	ug/Kg	97			82	123	
	4-Methyl-2-Pentanone	100	88.9	ug/Kg	89			70	135	
	Toluene	20	19.4	ug/Kg	97			83	122	
	t-1,3-Dichloropropene	20	18.5	ug/Kg	93			78	124	
	cis-1,3-Dichloropropene	20	18.8	ug/Kg	94			81	122	
	1,1,2-Trichloroethane	20	19.6	ug/Kg	98			82	125	
	2-Hexanone	100	89.5	ug/Kg	90			66	138	
	Dibromochloromethane	20	19.9	ug/Kg	100			79	125	
	1,2-Dibromoethane	20	19.6	ug/Kg	98			80	125	
	Tetrachloroethene	20	19.9	ug/Kg	100			83	125	
	Chlorobenzene	20	19.7	ug/Kg	99			84	122	
	Ethyl Benzene	20	18.7	ug/Kg	94			82	124	
	m/p-Xylenes	40	38.0	ug/Kg	95			83	124	
	o-Xylene	20	18.8	ug/Kg	94			83	123	
	Styrene	20	19.0	ug/Kg	95			82	124	
	Bromoform	20	19.2	ug/Kg	96			75	127	
	Isopropylbenzene	20	19.3	ug/Kg	97			82	124	
	1,1,2,2-Tetrachloroethane	20	19.8	ug/Kg	99			77	127	
	1,3-Dichlorobenzene	20	18.9	ug/Kg	95			83	122	
	1,4-Dichlorobenzene	20	19.0	ug/Kg	95			84	121	
	1,2-Dichlorobenzene	20	19.1	ug/Kg	96			83	124	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022382.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0522SBS01	1,2-Dibromo-3-Chloropropane	20	19.6	ug/Kg	98			66	134	
	1,2,4-Trichlorobenzene	20	19.5	ug/Kg	98			78	127	
	1,2,3-Trichlorobenzene	20	19.2	ug/Kg	96			70	137	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022383.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0522SBSD01	Dichlorodifluoromethane	20	20.2	ug/Kg	101	3		64	136	20
	Chloromethane	20	23.2	ug/Kg	116	1		70	130	20
	Vinyl chloride	20	25.4	ug/Kg	127	2		72	129	20
	Bromomethane	20	33.4	ug/Kg	167	4	*	58	141	20
	Chloroethane	20	28.3	ug/Kg	142	1	*	69	130	20
	Trichlorofluoromethane	20	21.1	ug/Kg	106	10		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/Kg	106	2		81	123	20
	1,1-Dichloroethene	20	20.8	ug/Kg	104	1		79	121	20
	Acetone	100	93.4	ug/Kg	93	17		60	131	20
	Carbon disulfide	20	19.7	ug/Kg	99	2		45	154	20
	Methyl tert-butyl Ether	20	21.1	ug/Kg	106	8		77	129	20
	Methyl Acetate	20	19.3	ug/Kg	97	16		69	149	20
	Methylene Chloride	20	19.0	ug/Kg	95	0		56	174	20
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101	2		80	123	20
	1,1-Dichloroethane	20	20.3	ug/Kg	102	5		82	123	20
	Cyclohexane	20	18.8	ug/Kg	94	0		76	122	20
	2-Butanone	100	97.2	ug/Kg	97	2		69	131	20
	Carbon Tetrachloride	20	19.5	ug/Kg	98	1		76	129	20
	cis-1,2-Dichloroethene	20	20.7	ug/Kg	104	4		82	123	20
	Bromochloromethane	20	20.3	ug/Kg	102	9		80	127	20
	Chloroform	20	20.7	ug/Kg	104	3		82	125	20
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103	5		80	126	20
	Methylcyclohexane	20	19.6	ug/Kg	98	2		77	123	20
	Benzene	20	20.1	ug/Kg	101	3		84	121	20
	1,2-Dichloroethane	20	20.3	ug/Kg	102	6		81	126	20
	Trichloroethene	20	20.3	ug/Kg	102	1		83	122	20
	1,2-Dichloropropane	20	19.7	ug/Kg	99	3		83	122	20
	Bromodichloromethane	20	19.9	ug/Kg	100	3		82	123	20
	4-Methyl-2-Pentanone	100	97.6	ug/Kg	98	10		70	135	20
	Toluene	20	19.4	ug/Kg	97	0		83	122	20
	t-1,3-Dichloropropene	20	19.4	ug/Kg	97	4		78	124	20
	cis-1,3-Dichloropropene	20	19.7	ug/Kg	99	5		81	122	20
	1,1,2-Trichloroethane	20	20.8	ug/Kg	104	6		82	125	20
	2-Hexanone	100	95.7	ug/Kg	96	6		66	138	20
	Dibromochloromethane	20	20.4	ug/Kg	102	2		79	125	20
	1,2-Dibromoethane	20	20.2	ug/Kg	101	3		80	125	20
	Tetrachloroethene	20	20.9	ug/Kg	104	4		83	125	20
	Chlorobenzene	20	20.4	ug/Kg	102	3		84	122	20
	Ethyl Benzene	20	19.6	ug/Kg	98	4		82	124	20
	m/p-Xylenes	40	39.7	ug/Kg	99	4		83	124	20
	o-Xylene	20	19.8	ug/Kg	99	5		83	123	20
	Styrene	20	19.9	ug/Kg	100	5		82	124	20
	Bromoform	20	20.8	ug/Kg	104	8		75	127	20
	Isopropylbenzene	20	19.7	ug/Kg	99	2		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.1	ug/Kg	106	7		77	127	20
	1,3-Dichlorobenzene	20	19.8	ug/Kg	99	4		83	122	20
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100	5		84	121	20
	1,2-Dichlorobenzene	20	20.2	ug/Kg	101	5		83	124	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022383.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0522SBSD01	1,2-Dibromo-3-Chloropropane	20	21.4	ug/Kg	107	9		66	134	20
	1,2,4-Trichlorobenzene	20	20.0	ug/Kg	100	2		78	127	20
	1,2,3-Trichlorobenzene	20	20.4	ug/Kg	102	6		70	137	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022409.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0523SBS01	Dichlorodifluoromethane	20	20.6	ug/Kg	103			64	136	
	Chloromethane	20	24.0	ug/Kg	120			70	130	
	Vinyl chloride	20	25.2	ug/Kg	126			72	129	
	Bromomethane	20	34.5	ug/Kg	173		*	58	141	
	Chloroethane	20	27.1	ug/Kg	136		*	69	130	
	Trichlorofluoromethane	20	22.9	ug/Kg	115			69	134	
	1,1,2-Trichlorotrifluoroethane	20	22.8	ug/Kg	114			81	123	
	1,1-Dichloroethene	20	22.1	ug/Kg	111			79	121	
	Acetone	100	140	ug/Kg	140		*	60	131	
	Carbon disulfide	20	19.9	ug/Kg	100			45	154	
	Methyl tert-butyl Ether	20	20.1	ug/Kg	101			77	129	
	Methyl Acetate	20	15.7	ug/Kg	79			69	149	
	Methylene Chloride	20	19.6	ug/Kg	98			56	174	
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102			80	123	
	1,1-Dichloroethane	20	20.0	ug/Kg	100			82	123	
	Cyclohexane	20	20.1	ug/Kg	101			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	20.9	ug/Kg	104			76	129	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			82	123	
	Bromochloromethane	20	19.7	ug/Kg	99			80	127	
	Chloroform	20	20.5	ug/Kg	103			82	125	
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104			80	126	
	Methylcyclohexane	20	21.4	ug/Kg	107			77	123	
	Benzene	20	20.3	ug/Kg	102			84	121	
	1,2-Dichloroethane	20	19.6	ug/Kg	98			81	126	
	Trichloroethene	20	20.8	ug/Kg	104			83	122	
	1,2-Dichloropropane	20	20.0	ug/Kg	100			83	122	
	Bromodichloromethane	20	20.0	ug/Kg	100			82	123	
	4-Methyl-2-Pentanone	100	92.8	ug/Kg	93			70	135	
	Toluene	20	20.2	ug/Kg	101			83	122	
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98			78	124	
	cis-1,3-Dichloropropene	20	19.7	ug/Kg	99			81	122	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			82	125	
	2-Hexanone	100	100	ug/Kg	100			66	138	
	Dibromochloromethane	20	20.4	ug/Kg	102			79	125	
	1,2-Dibromoethane	20	20.7	ug/Kg	104			80	125	
	Tetrachloroethene	20	21.1	ug/Kg	106			83	125	
	Chlorobenzene	20	20.5	ug/Kg	103			84	122	
	Ethyl Benzene	20	20.3	ug/Kg	102			82	124	
	m/p-Xylenes	40	40.6	ug/Kg	102			83	124	
	o-Xylene	20	19.9	ug/Kg	100			83	123	
	Styrene	20	19.8	ug/Kg	99			82	124	
	Bromoform	20	20.0	ug/Kg	100			75	127	
	Isopropylbenzene	20	21.0	ug/Kg	105			82	124	
	1,1,2,2-Tetrachloroethane	20	20.9	ug/Kg	104			77	127	
	1,3-Dichlorobenzene	20	20.2	ug/Kg	101			83	122	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			84	121	
	1,2-Dichlorobenzene	20	20.5	ug/Kg	103			83	124	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022409.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0523SBS01	1,2-Dibromo-3-Chloropropane	20	20.3	ug/Kg	102			66	134	
	1,2,4-Trichlorobenzene	20	19.3	ug/Kg	97			78	127	
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95			70	137	

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0522SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022381.D Lab Sample ID: VY0522SBL01

Date Analyzed: 05/22/2025 Time Analyzed: 09:07

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0522SBS01	VY0522SBS01	VY022382.D	05/22/2025
VY0522SBSD01	VY0522SBSD01	VY022383.D	05/22/2025
TP-22	Q2100-02	VY022398.D	05/22/2025
TP-45	Q2100-04	VY022400.D	05/22/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0523SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022408.D Lab Sample ID: VY0523SBL01

Date Analyzed: 05/23/2025 Time Analyzed: 15:26

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0523SBS01	VY0523SBS01	VY022409.D	05/23/2025
TP-21	Q2100-03	VY022413.D	05/23/2025
TP-16	Q2100-01	VY022416.D	05/23/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022252.D BFB Injection Date: 05/15/2025

Instrument ID: MSVOA_Y BFB Injection Time: 07:52

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	24
75	30.0 - 60.0% of mass 95	55.9
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	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	5.9 (7.3) 1
176	95.0 - 101.0% of mass 174	77.5 (96.3) 1
177	5.0 - 9.0% of mass 176	5.3 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY022253.D	05/15/2025	09:46
VSTDICC010	VSTDICC010	VY022254.D	05/15/2025	10:16
VSTDICC020	VSTDICC020	VY022255.D	05/15/2025	10:39
VSTDICCC050	VSTDICCC050	VY022256.D	05/15/2025	11:02
VSTDICC100	VSTDICC100	VY022257.D	05/15/2025	11:24
VSTDICC150	VSTDICC150	VY022258.D	05/15/2025	11:47

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022379.D BFB Injection Date: 05/22/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:05

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	24.1
75	30.0 - 60.0% of mass 95	57.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.1 (1.3) 1
174	50.0 - 100.0% of mass 95	86.1
175	5.0 - 9.0% of mass 174	6.4 (7.5) 1
176	95.0 - 101.0% of mass 174	83.8 (97.4) 1
177	5.0 - 9.0% of mass 176	5.5 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022380.D	05/22/2025	08:35
VY0522SBL01	VY0522SBL01	VY022381.D	05/22/2025	09:07
VY0522SBS01	VY0522SBS01	VY022382.D	05/22/2025	09:36
VY0522SBSD01	VY0522SBSD01	VY022383.D	05/22/2025	09:59
TP-22	Q2100-02	VY022398.D	05/22/2025	16:06
TP-45	Q2100-04	VY022400.D	05/22/2025	16:53

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022406.D BFB Injection Date: 05/23/2025

Instrument ID: MSVOA_Y BFB Injection Time: 11:40

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	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1 (1.2) 1
174	50.0 - 100.0% of mass 95	89
175	5.0 - 9.0% of mass 174	6.7 (7.6) 1
176	95.0 - 101.0% of mass 174	86.3 (97) 1
177	5.0 - 9.0% of mass 176	5.7 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022407.D	05/23/2025	14:34
VY0523SBL01	VY0523SBL01	VY022408.D	05/23/2025	15:26
VY0523SBS01	VY0523SBS01	VY022409.D	05/23/2025	16:28
TP-21	Q2100-03	VY022413.D	05/23/2025	18:01
TP-16	Q2100-01	VY022416.D	05/23/2025	19:11

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022380.D Date Analyzed: 05/22/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:35

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	161495	7.72	274168	8.62	235238	11.42
UPPER LIMIT	322990	8.22	548336	9.122	470476	11.92
LOWER LIMIT	80747.5	7.22	137084	8.122	117619	10.92
EPA SAMPLE NO.						
TP-22	231359	7.72	414060	8.62	325678	11.42
TP-45	236218	7.72	418190	8.62	340404	11.42
VY0522SBL01	263712	7.72	465826	8.62	376365	11.42
VY0522SBS01	174604	7.72	293942	8.62	250842	11.42
VY0522SBSD01	165702	7.71	283052	8.62	236945	11.42

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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022380.D Date Analyzed: 05/22/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:35

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	110586	13.353				
UPPER LIMIT	221172	13.853				
LOWER LIMIT	55293	12.853				
EPA SAMPLE NO.						
TP-22	119664	13.35				
TP-45	124499	13.35				
VY0522SBL01	137350	13.35				
VY0522SBS01	118480	13.35				
VY0522SBSD01	112772	13.35				

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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022407.D Date Analyzed: 05/23/2025

Instrument ID: MSVOA_Y Time Analyzed: 14:34

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	221240	7.72	368290	8.62	319713	11.42
UPPER LIMIT	442480	8.219	736580	9.122	639426	11.92
LOWER LIMIT	110620	7.219	184145	8.122	159857	10.92
EPA SAMPLE NO.						
TP-16	303749	7.71	546937	8.62	451641	11.42
TP-21	340717	7.71	608366	8.62	471350	11.42
VY0523SBL01	328707	7.71	590839	8.62	465211	11.42
VY0523SBS01	220484	7.71	365163	8.62	306453	11.42

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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022407.D Date Analyzed: 05/23/2025

Instrument ID: MSVOA_Y Time Analyzed: 14:34

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	156128	13.352				
UPPER LIMIT	312256	13.852				
LOWER LIMIT	78064	12.852				
EPA SAMPLE NO.						
TP-16	169695	13.35				
TP-21	165102	13.35				
VY0523SBL01	167300	13.35				
VY0523SBS01	141917	13.35				

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022381.D	1		05/22/25 09:07	VY052225

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022381.D	1		05/22/25 09:07	VY052225

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	48.9		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	48.7		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.5		38 - 136	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	264000	7.719			
540-36-3	1,4-Difluorobenzene	466000	8.622			
3114-55-4	Chlorobenzene-d5	376000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.353			

Raw Data: **VY022381.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022381.D	1		05/22/25 09:07	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022408.D	1		05/23/25 15:26	VY052325

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022408.D	1		05/23/25 15:26	VY052325

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	56.1		63 - 155	112%	SPK: 50
1868-53-7	Dibromofluoromethane	56.7		70 - 134	113%	SPK: 50
2037-26-5	Toluene-d8	54.7		74 - 123	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		38 - 136	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	329000	7.713			
540-36-3	1,4-Difluorobenzene	591000	8.621			
3114-55-4	Chlorobenzene-d5	465000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	167000	13.352			

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022408.D	1		05/23/25 15:26	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022382.D	1		05/22/25 09:36	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	23.3		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	24.9		0.79	5.00	ug/Kg
74-83-9	Bromomethane	34.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	28.5		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	23.4		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.9		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.5		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	16.6		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.7		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.4		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.7		0.79	5.00	ug/Kg
78-93-3	2-Butanone	95.4		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	19.9		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	18.6		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.5		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.2		0.91	5.00	ug/Kg
71-43-2	Benzene	19.5		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.1		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	88.9		3.60	25.0	ug/Kg
108-88-3	Toluene	19.4		0.78	5.00	ug/Kg

Raw Data: **VY022382.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022382.D	1		05/22/25 09:36	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.5		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	18.8		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.6		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	89.5		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.9		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.6		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.7		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.7		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.0		1.20	10.0	ug/Kg
95-47-6	o-Xylene	18.8		0.82	5.00	ug/Kg
100-42-5	Styrene	19.0		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.8		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.1		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	19.5		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.2		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.3		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		38 - 136	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	175000	7.719			
540-36-3	1,4-Difluorobenzene	294000	8.622			
3114-55-4	Chlorobenzene-d5	251000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	118000	13.353			

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022382.D	1		05/22/25 09:36	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

Raw Data: **VY022409.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022409.D	1		05/23/25 16:28	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	24.0		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	25.2		0.79	5.00	ug/Kg
74-83-9	Bromomethane	34.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	27.1		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	22.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	22.1		1.00	5.00	ug/Kg
67-64-1	Acetone	140		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.9		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.1		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	15.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.6		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.0		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	20.9		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.7		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.5		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	21.4		0.91	5.00	ug/Kg
71-43-2	Benzene	20.3		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.8		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.0		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	92.8		3.60	25.0	ug/Kg
108-88-3	Toluene	20.2		0.78	5.00	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022409.D	1		05/23/25 16:28	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.7		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.7		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.1		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.5		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.3		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.9		0.82	5.00	ug/Kg
100-42-5	Styrene	19.8		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.0		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.2		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.5		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.3		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.3		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	53.5		74 - 123	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		38 - 136	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	220000	7.713			
540-36-3	1,4-Difluorobenzene	365000	8.621			
3114-55-4	Chlorobenzene-d5	306000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.352			

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022409.D	1		05/23/25 16:28	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBSD01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBSD01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022383.D	1		05/22/25 09:59	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	23.2		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	25.4		0.79	5.00	ug/Kg
74-83-9	Bromomethane	33.4		1.10	5.00	ug/Kg
75-00-3	Chloroethane	28.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.1		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		1.00	5.00	ug/Kg
67-64-1	Acetone	93.4		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.1		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	19.3		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.1		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	97.2		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.5		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.7		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.5		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.3		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.9		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	97.6		3.60	25.0	ug/Kg
108-88-3	Toluene	19.4		0.78	5.00	ug/Kg

Raw Data: **VY022383.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBSD01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBSD01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022383.D	1		05/22/25 09:59	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.7		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	95.7		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.2		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.4		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.6		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.7		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.82	5.00	ug/Kg
100-42-5	Styrene	19.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.8		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.7		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.8		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.2		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.4		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.0		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.4		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		38 - 136	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	166000	7.713			
540-36-3	1,4-Difluorobenzene	283000	8.621			
3114-55-4	Chlorobenzene-d5	237000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	113000	13.352			

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBSD01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBSD01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022383.D	1		05/22/25 09:59	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47

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

LAB FILE ID: RRF005 = VY022253.D RRF010 = VY022254.D RRF020 = VY022255.D
RRF050 = VY022256.D RRF100 = VY022257.D RRF150 = VY022258.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.546	0.587	0.541	0.507	0.470	0.479	0.522	8.5
Chloromethane	1.212	1.237	1.153	1.042	1.046	0.894	1.097	11.7
Vinyl Chloride	1.265	1.317	1.264	1.210	1.190	1.110	1.226	5.9
Bromomethane	1.107	1.033	1.058	0.877	0.955	0.959	0.998	8.3
Chloroethane	0.751	0.814	0.796	0.756	0.733	0.727	0.763	4.6
Trichlorofluoromethane	1.254	1.292	1.260	1.214	1.211	1.217	1.241	2.6
1,1,2-Trichlorotrifluoroethane	0.548	0.577	0.544	0.538	0.507	0.520	0.539	4.5
1,1-Dichloroethene	0.545	0.544	0.540	0.539	0.518	0.523	0.535	2.2
Acetone	0.126	0.114	0.096	0.093	0.094	0.092	0.102	13.6
Carbon Disulfide	1.768	1.822	1.764	1.753	1.679	1.679	1.744	3.2
Methyl tert-butyl Ether	1.463	1.523	1.393	1.459	1.504	1.507	1.475	3.2
Methyl Acetate	0.349	0.308	0.286	0.302	0.346	0.347	0.323	8.6
Methylene Chloride	0.797	0.811	0.646	0.597	0.570	0.552	0.662	17.3
trans-1,2-Dichloroethene	0.577	0.609	0.603	0.592	0.580	0.581	0.590	2.2
1,1-Dichloroethane	1.112	1.136	1.099	1.117	1.093	1.082	1.106	1.7
Cyclohexane	1.300	1.191	1.077	1.055	0.998	1.011	1.105	10.6
2-Butanone	0.180	0.181	0.158	0.161	0.174	0.174	0.171	5.6
Carbon Tetrachloride	0.485	0.524	0.494	0.516	0.509	0.524	0.509	3.2
cis-1,2-Dichloroethene	0.662	0.687	0.668	0.691	0.687	0.693	0.681	1.9
Bromochloromethane	0.463	0.484	0.467	0.473	0.469	0.476	0.472	1.6
Chloroform	1.032	1.079	1.067	1.079	1.054	1.057	1.061	1.7
1,1,1-Trichloroethane	1.007	0.997	0.960	0.969	0.944	0.964	0.974	2.4
Methylcyclohexane	0.664	0.678	0.645	0.670	0.639	0.667	0.660	2.3
Benzene	1.369	1.462	1.435	1.499	1.482	1.496	1.457	3.4
1,2-Dichloroethane	0.381	0.399	0.378	0.402	0.403	0.402	0.394	2.9
Trichloroethene	0.358	0.366	0.361	0.371	0.356	0.363	0.362	1.5
1,2-Dichloropropane	0.337	0.361	0.344	0.357	0.354	0.355	0.351	2.6
Bromodichloromethane	0.466	0.494	0.476	0.506	0.504	0.504	0.492	3.4
4-Methyl-2-Pentanone	0.238	0.247	0.230	0.253	0.275	0.275	0.253	7.4
Toluene	0.871	0.924	0.890	0.944	0.947	0.961	0.923	3.8

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47

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

LAB FILE ID: RRF005 = VY022253.D RRF010 = VY022254.D RRF020 = VY022255.D
RRF050 = VY022256.D RRF100 = VY022257.D RRF150 = VY022258.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.464	0.473	0.457	0.487	0.498	0.499	0.480	3.7
cis-1,3-Dichloropropene	0.523	0.548	0.535	0.562	0.562	0.568	0.550	3.2
1,1,2-Trichloroethane	0.241	0.243	0.232	0.243	0.248	0.249	0.243	2.4
2-Hexanone	0.167	0.167	0.151	0.166	0.183	0.185	0.170	7.4
Dibromochloromethane	0.296	0.314	0.298	0.323	0.329	0.330	0.315	4.9
1,2-Dibromoethane	0.221	0.228	0.214	0.227	0.234	0.232	0.226	3.2
Tetrachloroethene	0.474	0.481	0.470	0.474	0.446	0.429	0.462	4.4
Chlorobenzene	1.112	1.110	1.106	1.154	1.143	1.143	1.128	1.9
Ethyl Benzene	2.014	2.043	2.049	2.175	2.173	2.222	2.113	4.1
m/p-Xylenes	0.749	0.770	0.763	0.818	0.825	0.852	0.796	5.2
o-Xylene	0.704	0.741	0.723	0.768	0.782	0.802	0.753	4.9
Styrene	1.182	1.214	1.210	1.303	1.335	1.380	1.270	6.3
Bromoform	0.202	0.214	0.194	0.209	0.219	0.217	0.209	4.5
Isopropylbenzene	4.157	4.192	4.100	4.197	4.028	4.181	4.142	1.6
1,1,2,2-Tetrachloroethane	0.656	0.647	0.581	0.628	0.645	0.666	0.637	4.8
1,3-Dichlorobenzene	1.757	1.774	1.715	1.838	1.839	1.914	1.806	4
1,4-Dichlorobenzene	1.759	1.765	1.706	1.750	1.723	1.720	1.737	1.4
1,2-Dichlorobenzene	1.526	1.520	1.479	1.534	1.520	1.523	1.517	1.3
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.093	0.100	0.109	0.104	0.103	5.7
1,2,4-Trichlorobenzene	0.860	0.845	0.848	0.900	0.904	0.902	0.876	3.2
1,2,3-Trichlorobenzene	0.753	0.721	0.702	0.752	0.777	0.756	0.743	3.6
1,2-Dichloroethane-d4	0.547	0.559	0.527	0.541	0.545	0.560	0.546	2.2
Dibromofluoromethane	0.294	0.294	0.294	0.301	0.297	0.310	0.298	2.2
Toluene-d8	1.224	1.200	1.195	1.230	1.214	1.272	1.222	2.3
4-Bromofluorobenzene	0.390	0.386	0.368	0.387	0.387	0.407	0.387	3.3

* 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.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date/Time: 05/22/2025 08:35

Lab File ID: VY022380.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.522	0.512		-1.92	20
Chloromethane	1.097	1.093	0.1	-0.46	20
Vinyl Chloride	1.226	1.451		18.35	20
Bromomethane	0.998	1.202		20.44	20
Chloroethane	0.763	0.992		30.01	20
Trichlorofluoromethane	1.241	1.338		7.82	20
1,1,2-Trichlorotrifluoroethane	0.539	0.600		11.32	20
1,1-Dichloroethene	0.535	0.576		7.66	20
Acetone	0.102	0.096		-5.88	20
Carbon Disulfide	1.744	1.805		3.5	20
Methyl tert-butyl Ether	1.475	1.522		3.19	20
Methyl Acetate	0.323	0.304		-5.88	20
Methylene Chloride	0.662	0.614		-7.25	20
trans-1,2-Dichloroethene	0.590	0.630		6.78	20
1,1-Dichloroethane	1.106	1.155	0.1	4.43	20
Cyclohexane	1.105	1.072		-2.99	20
2-Butanone	0.171	0.154		-9.94	20
Carbon Tetrachloride	0.509	0.548		7.66	20
cis-1,2-Dichloroethene	0.681	0.741		8.81	20
Bromochloromethane	0.472	0.490		3.81	20
Chloroform	1.061	1.157		9.05	20
1,1,1-Trichloroethane	0.974	1.054		8.21	20
Methylcyclohexane	0.660	0.694		5.15	20
Benzene	1.457	1.548		6.25	20
1,2-Dichloroethane	0.394	0.396		0.51	20
Trichloroethene	0.362	0.385		6.35	20
1,2-Dichloropropane	0.351	0.362		3.13	20
Bromodichloromethane	0.492	0.514		4.47	20
4-Methyl-2-Pentanone	0.253	0.230		-9.09	20
Toluene	0.923	0.978		5.96	20
t-1,3-Dichloropropene	0.480	0.478		-0.42	20
cis-1,3-Dichloropropene	0.550	0.565		2.73	20
1,1,2-Trichloroethane	0.243	0.246		1.24	20
2-Hexanone	0.170	0.151		-11.18	20
Dibromochloromethane	0.315	0.330		4.76	20
1,2-Dibromoethane	0.226	0.236		4.43	20
Tetrachloroethene	0.462	0.502		8.66	20
Chlorobenzene	1.128	1.194	0.3	5.85	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date/Time: 05/22/2025 08:35

Lab File ID: VY022380.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.113	2.234		5.73	20
m/p-Xylenes	0.796	0.849		6.66	20
o-Xylene	0.753	0.791		5.05	20
Styrene	1.270	1.325		4.33	20
Bromoform	0.209	0.212	0.1	1.43	20
Isopropylbenzene	4.142	4.432		7	20
1,1,2,2-Tetrachloroethane	0.637	0.657	0.3	3.14	20
1,3-Dichlorobenzene	1.806	1.920		6.31	20
1,4-Dichlorobenzene	1.737	1.831		5.41	20
1,2-Dichlorobenzene	1.517	1.600		5.47	20
1,2-Dibromo-3-Chloropropane	0.103	0.104		0.97	20
1,2,4-Trichlorobenzene	0.876	0.937		6.96	20
1,2,3-Trichlorobenzene	0.743	0.779		4.84	20
1,2-Dichloroethane-d4	0.546	0.561		2.75	20
Dibromofluoromethane	0.298	0.318		6.71	20
Toluene-d8	1.222	1.298		6.22	20
4-Bromofluorobenzene	0.387	0.387		0	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date/Time: 05/23/2025 14:34

Lab File ID: VY022407.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.522	0.529		1.34	20
Chloromethane	1.097	1.312	0.1	19.6	20
Vinyl Chloride	1.226	1.569		27.98	20
Bromomethane	0.998	1.869		87.28	20
Chloroethane	0.763	1.174		53.87	20
Trichlorofluoromethane	1.241	1.446		16.52	20
1,1,2-Trichlorotrifluoroethane	0.539	0.598		10.95	20
1,1-Dichloroethene	0.535	0.580		8.41	20
Acetone	0.102	0.112		9.8	20
Carbon Disulfide	1.744	1.866		6.99	20
Methyl tert-butyl Ether	1.475	1.534		4	20
Methyl Acetate	0.323	0.277		-14.24	20
Methylene Chloride	0.662	0.610		-7.86	20
trans-1,2-Dichloroethene	0.590	0.629		6.61	20
1,1-Dichloroethane	1.106	1.138	0.1	2.89	20
Cyclohexane	1.105	1.069		-3.26	20
2-Butanone	0.171	0.165		-3.51	20
Carbon Tetrachloride	0.509	0.543		6.68	20
cis-1,2-Dichloroethene	0.681	0.745		9.4	20
Bromochloromethane	0.472	0.452		-4.24	20
Chloroform	1.061	1.137		7.16	20
1,1,1-Trichloroethane	0.974	1.014		4.11	20
Methylcyclohexane	0.660	0.714		8.18	20
Benzene	1.457	1.555		6.73	20
1,2-Dichloroethane	0.394	0.407		3.3	20
Trichloroethene	0.362	0.386		6.63	20
1,2-Dichloropropane	0.351	0.363		3.42	20
Bromodichloromethane	0.492	0.522		6.1	20
4-Methyl-2-Pentanone	0.253	0.241		-4.74	20
Toluene	0.923	0.988		7.04	20
t-1,3-Dichloropropene	0.480	0.487		1.46	20
cis-1,3-Dichloropropene	0.550	0.574		4.36	20
1,1,2-Trichloroethane	0.243	0.261		7.41	20
2-Hexanone	0.170	0.166		-2.35	20
Dibromochloromethane	0.315	0.339		7.62	20
1,2-Dibromoethane	0.226	0.243		7.52	20
Tetrachloroethene	0.462	0.463		0.22	20
Chlorobenzene	1.128	1.192	0.3	5.67	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date/Time: 05/23/2025 14:34

Lab File ID: VY022407.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.113	2.220		5.06	20
m/p-Xylenes	0.796	0.846		6.28	20
o-Xylene	0.753	0.797		5.84	20
Styrene	1.270	1.334		5.04	20
Bromoform	0.209	0.212	0.1	1.43	20
Isopropylbenzene	4.142	4.256		2.75	20
1,1,2,2-Tetrachloroethane	0.637	0.668	0.3	4.87	20
1,3-Dichlorobenzene	1.806	1.855		2.71	20
1,4-Dichlorobenzene	1.737	1.766		1.67	20
1,2-Dichlorobenzene	1.517	1.547		1.98	20
1,2-Dibromo-3-Chloropropane	0.103	0.101		-1.94	20
1,2,4-Trichlorobenzene	0.876	0.871		-0.57	20
1,2,3-Trichlorobenzene	0.743	0.748		0.67	20
1,2-Dichloroethane-d4	0.546	0.475		-13	20
Dibromofluoromethane	0.298	0.280		-6.04	20
Toluene-d8	1.222	1.060		-13.26	20
4-Bromofluorobenzene	0.387	0.334		-13.69	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Quant Time: May 23 23:24:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	303749	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	546937	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	451641	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	169695	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	184083	55.452	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.900%			
35) Dibromofluoromethane	7.640	113	169380	51.886	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.780%			
50) Toluene-d8	10.109	98	652262	48.786	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.580%			
62) 4-Bromofluorobenzene	12.408	95	173216	40.875	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 81.740%			

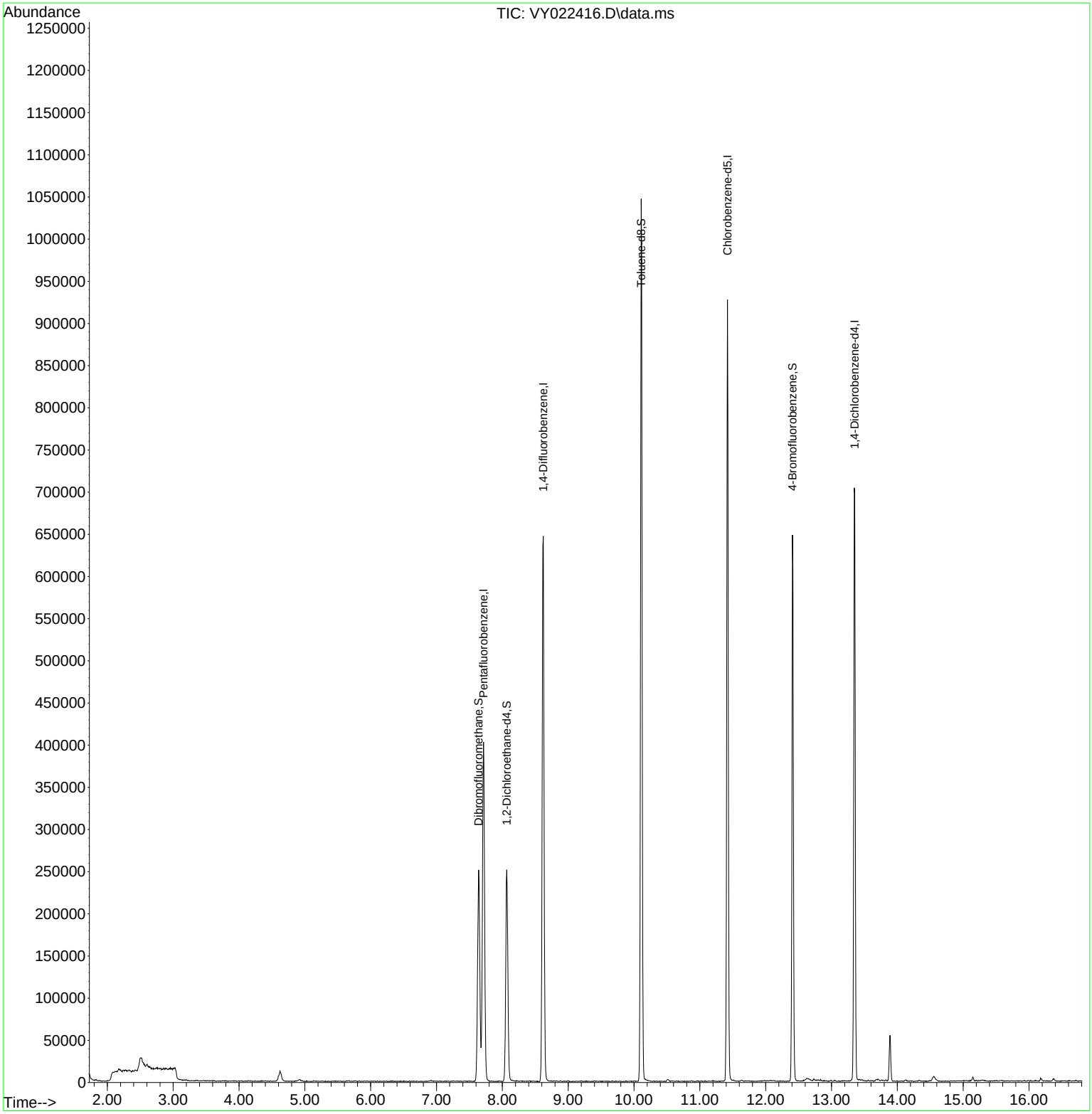
Target Compounds Qvalue

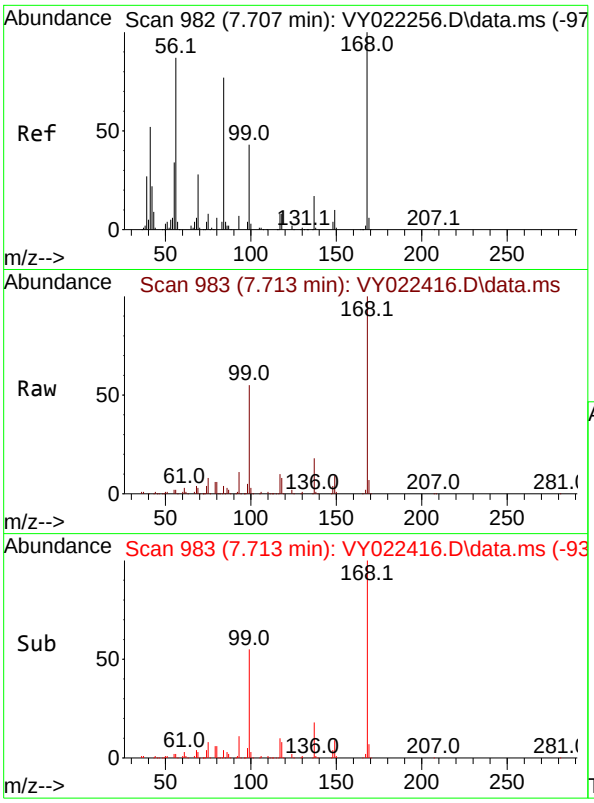
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Quant Time: May 23 23:24:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



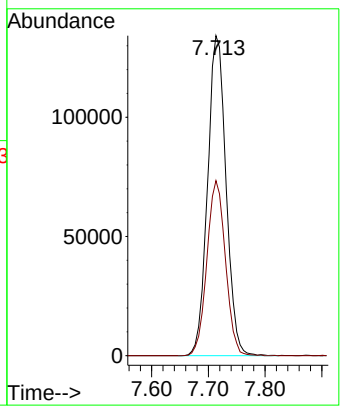


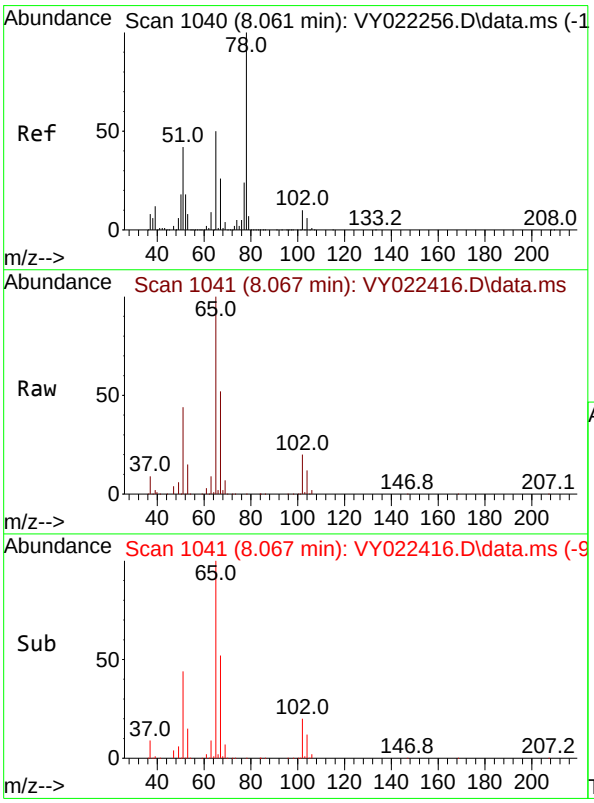
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Tgt Ion:168 Resp: 303749

Ion	Ratio	Lower	Upper
168	100		
99	54.7	44.2	66.4

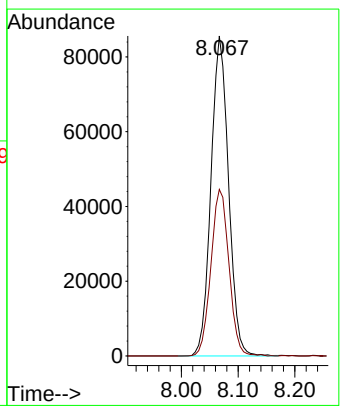


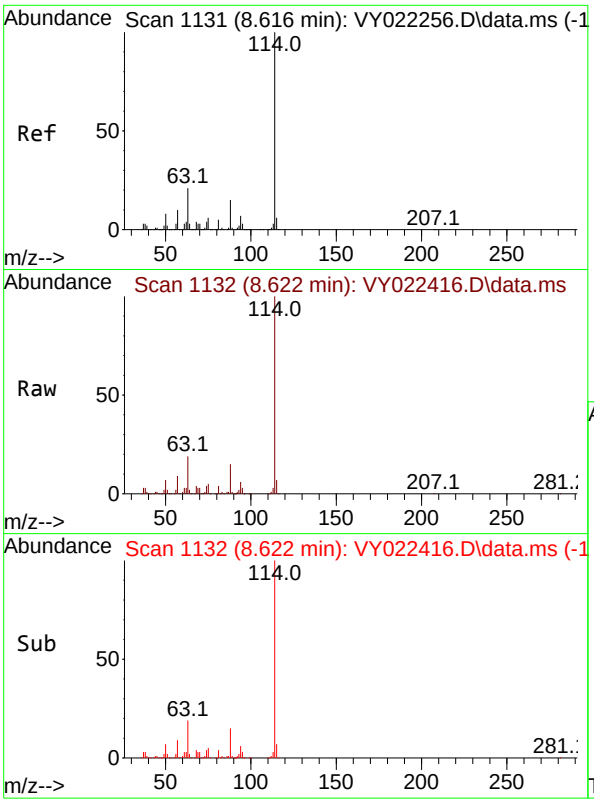


#33
1,2-Dichloroethane-d4
Concen: 55.452 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Tgt Ion: 65 Resp: 184083

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	104.6



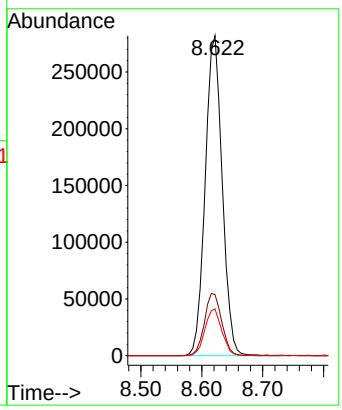


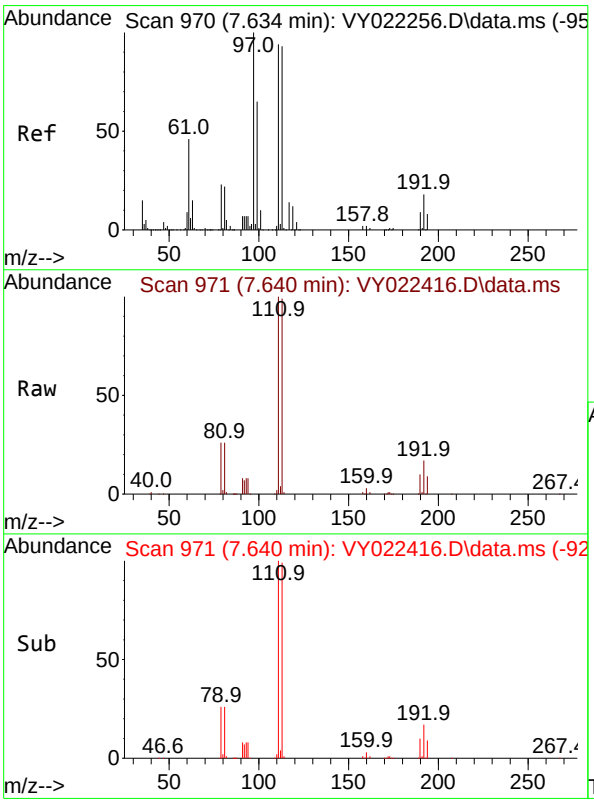
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Tgt Ion:114 Resp: 546937

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	41.0
88	14.6	0.0	29.4

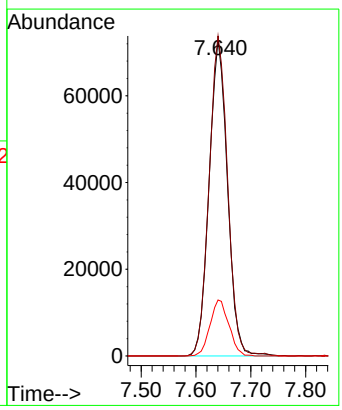


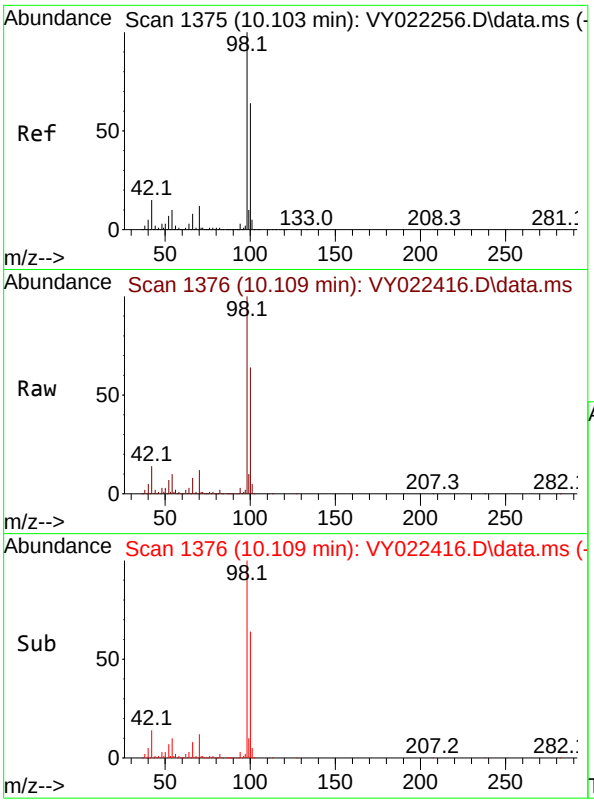


#35
Dibromofluoromethane
Concen: 51.886 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Tgt Ion:113 Resp: 169380

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.6	123.8
192	18.2	15.2	22.8



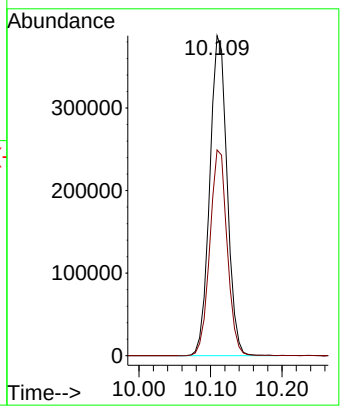


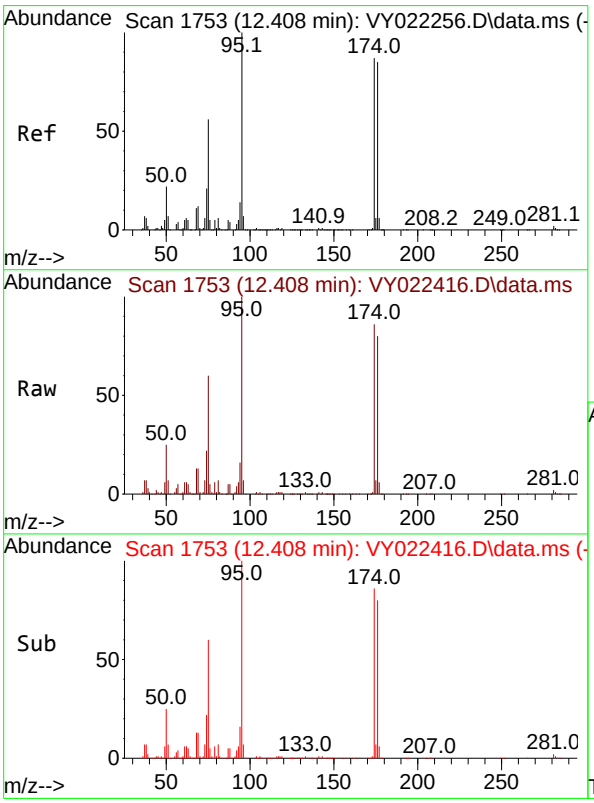
#50
Toluene-d8
Concen: 48.786 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Tgt Ion: 98 Resp: 652262

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.8	77.8

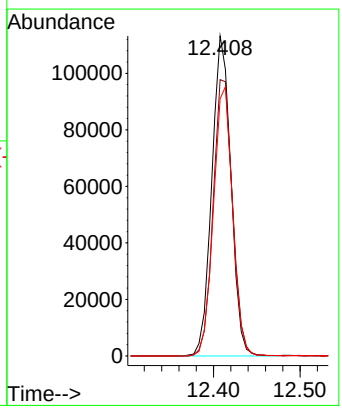


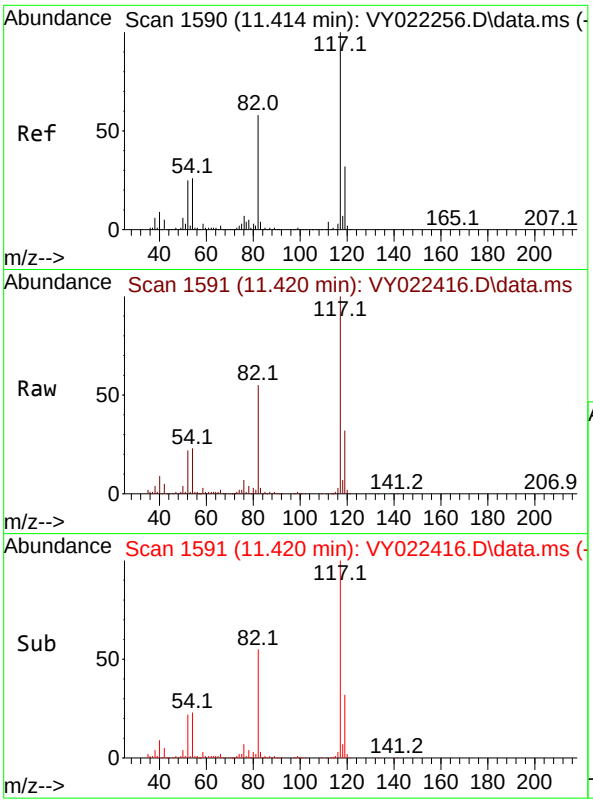


#62
4-Bromofluorobenzene
Concen: 40.875 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Tgt Ion: 95 Resp: 173216

Ion	Ratio	Lower	Upper
95	100		
174	87.8	0.0	166.8
176	84.3	0.0	160.8



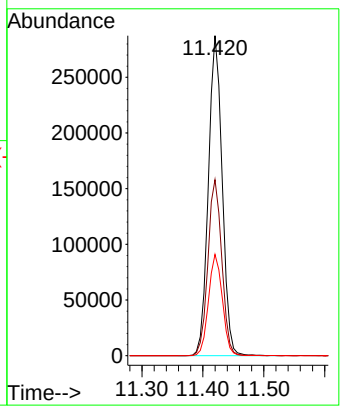


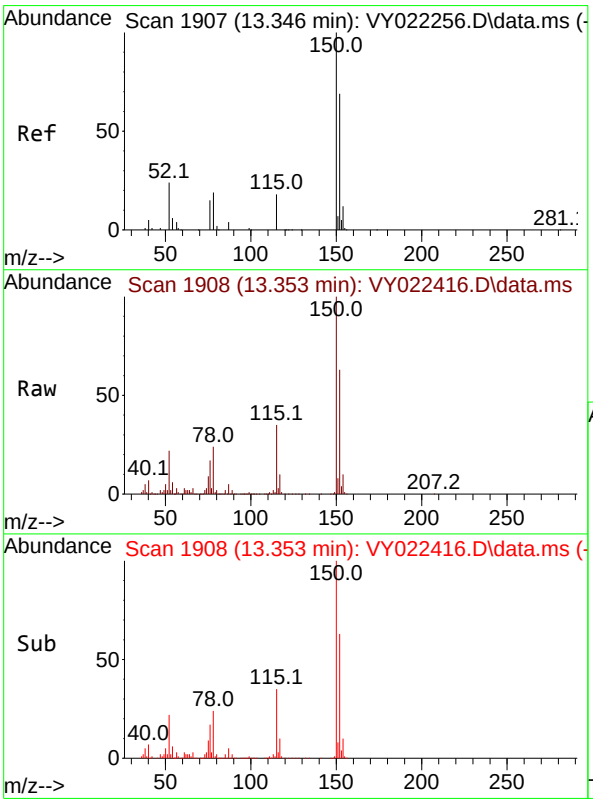
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Tgt Ion:117 Resp: 451641

Ion	Ratio	Lower	Upper
117	100		
82	55.0	46.6	70.0
119	31.6	25.8	38.6

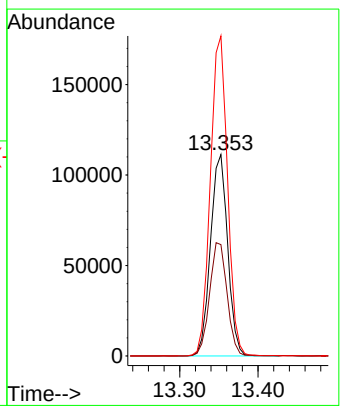




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Tgt Ion:152 Resp: 169695

Ion	Ratio	Lower	Upper
152	100		
115	57.3	29.4	88.2
150	158.4	0.0	353.8



Sample Results: **VY022416.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

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_Y\methods\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022416.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	49	59	63	rBV5	10198	30437	1.73%	0.341%
2	2.513	121	130	137	rBV5	15151	60642	3.44%	0.680%
3	4.622	465	476	489	rBV3	12084	35355	2.01%	0.397%
4	7.640	961	971	977	rBV	250660	583480	33.09%	6.546%
5	7.713	977	983	998	rVB	402523	908702	51.54%	10.195%
6	8.067	1030	1041	1054	rBV	251007	556513	31.57%	6.244%
7	8.622	1123	1132	1147	rBV	646940	1282603	72.75%	14.390%
8	10.109	1368	1376	1385	rBV	1046313	1763069	100.00%	19.781%
9	11.420	1584	1591	1604	rBV	926215	1465218	83.11%	16.439%
10	12.408	1744	1753	1765	rBV	647923	1014458	57.54%	11.382%
11	13.346	1897	1907	1917	rBV	703253	1106332	62.75%	12.412%
12	13.889	1990	1996	2003	rVB2	54480	87582	4.97%	0.983%
13	14.554	2097	2105	2117	rVB7	5738	18676	1.06%	0.210%

Sum of corrected areas: 8913067

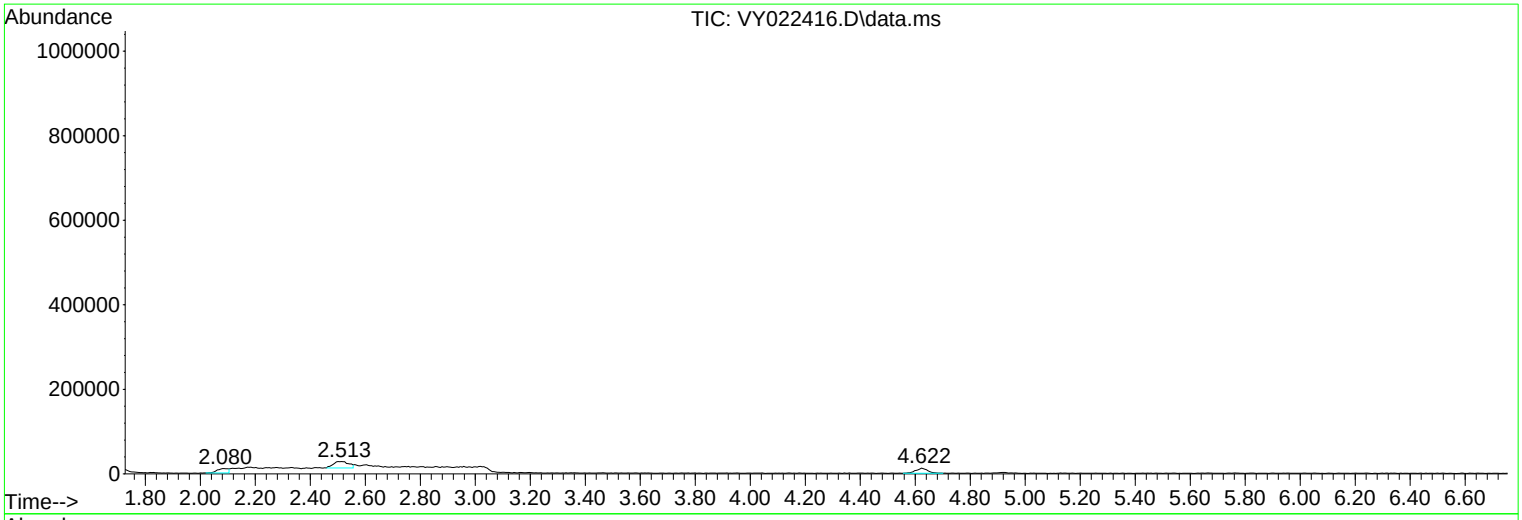
Sample Results: **VY022416.D**

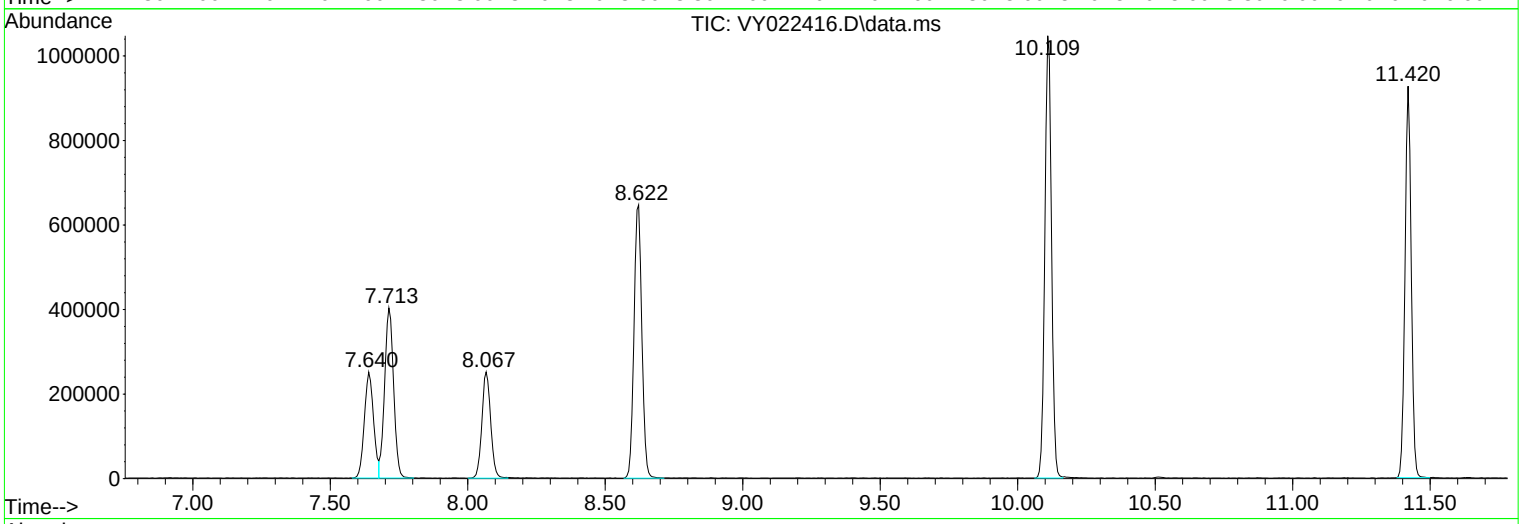
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

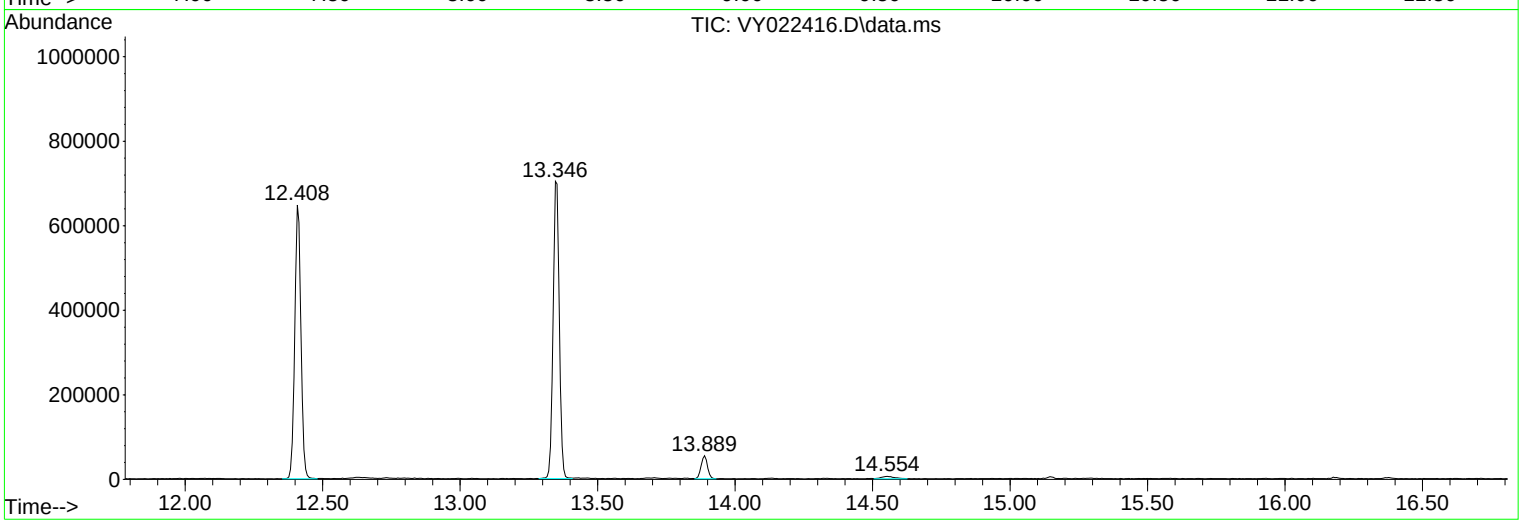
Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022416.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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 #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Quant Time: May 23 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

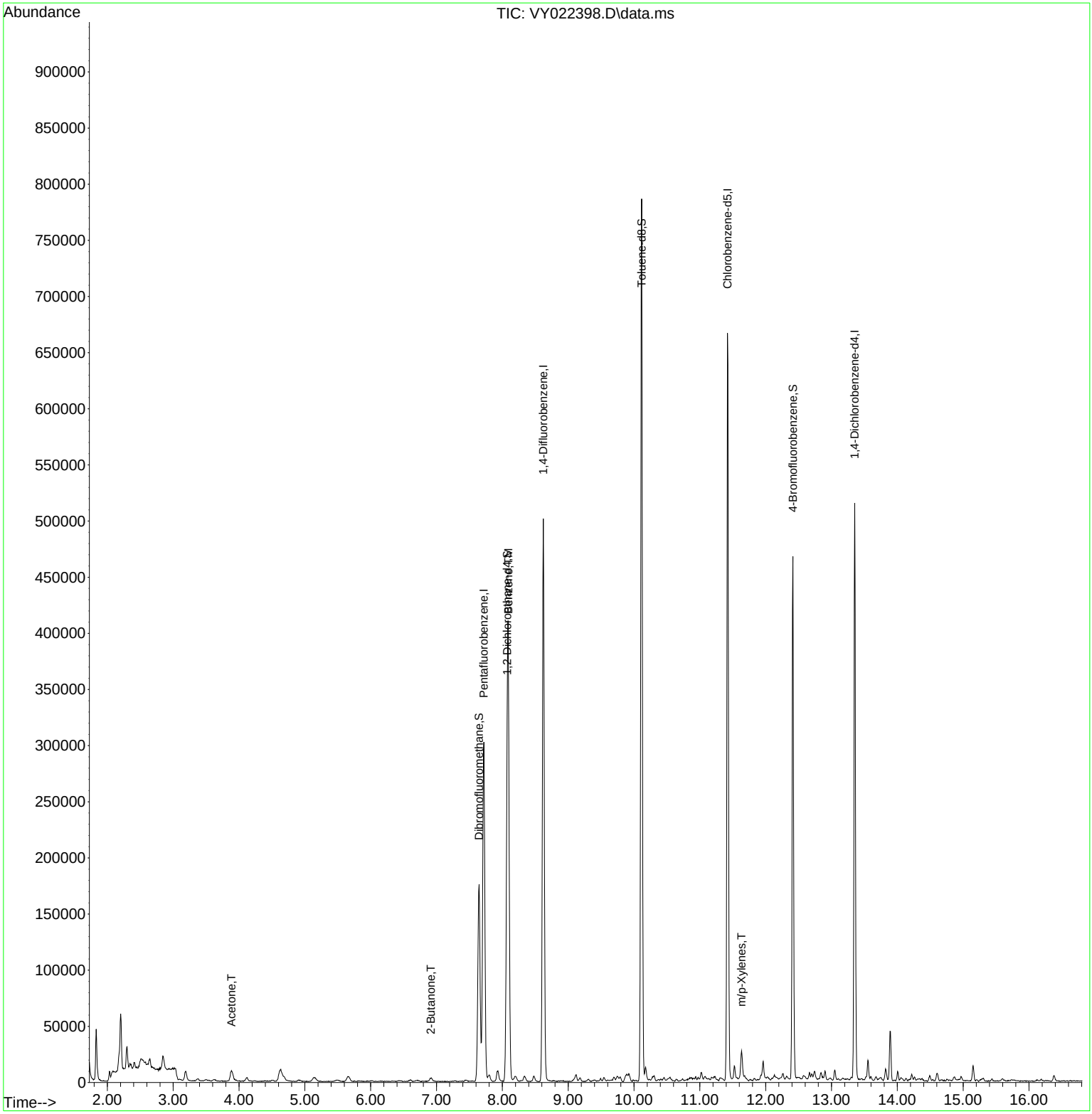
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	231359	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	414060	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	325678	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	119664	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	117920	46.636	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.280%			
35) Dibromofluoromethane	7.646	113	120139	48.613	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.220%			
50) Toluene-d8	10.115	98	492469	48.655	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.320%			
62) 4-Bromofluorobenzene	12.414	95	122725	38.254	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 76.500%			
Target Compounds						Qvalue
16) Acetone	3.885	43	18091	38.157	ug/l #	83
25) 2-Butanone	6.915	43	5759	7.262	ug/l #	84
40) Benzene	8.091	78	312744	25.917	ug/l	98
68) m/p-Xylenes	11.633	106	8109	1.564	ug/l	87

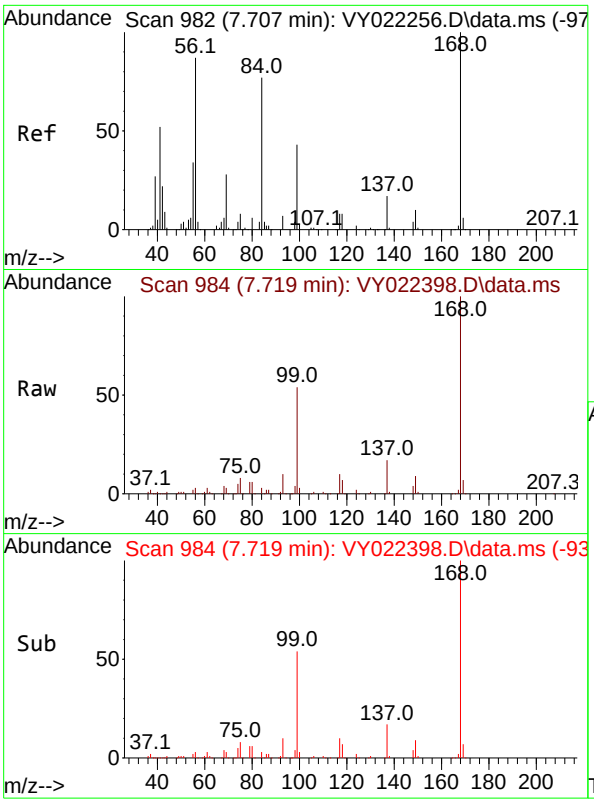
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Quant Time: May 23 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



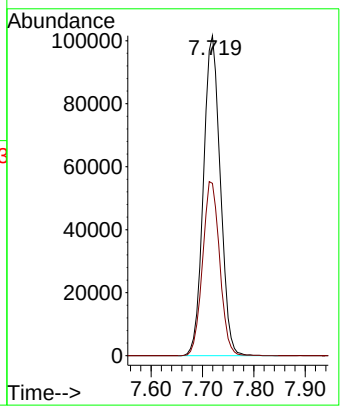


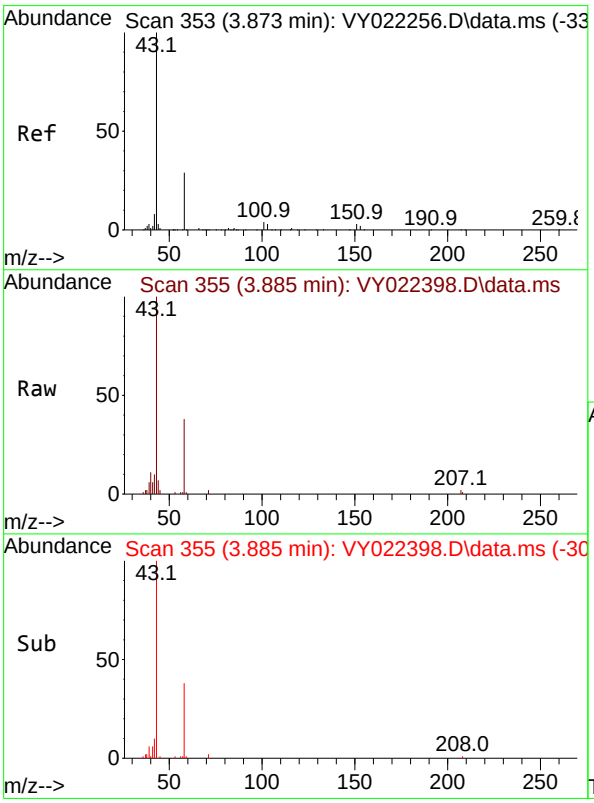
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Tgt Ion:168 Resp: 231359

Ion	Ratio	Lower	Upper
168	100		
99	53.9	44.2	66.4

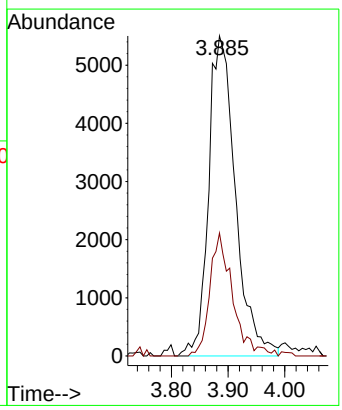


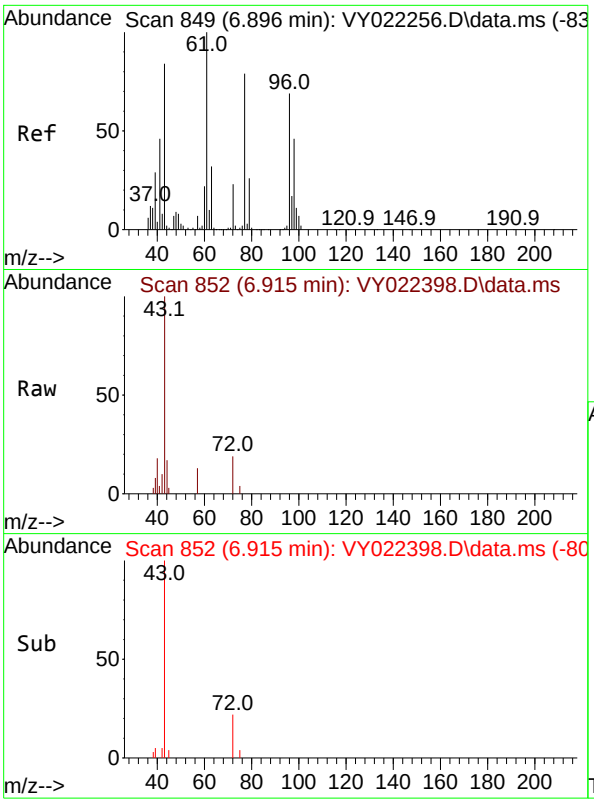


#16
Acetone
Concen: 38.157 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion: 43 Resp: 18091

Ion	Ratio	Lower	Upper
43	100		
58	38.4	23.6	35.4#



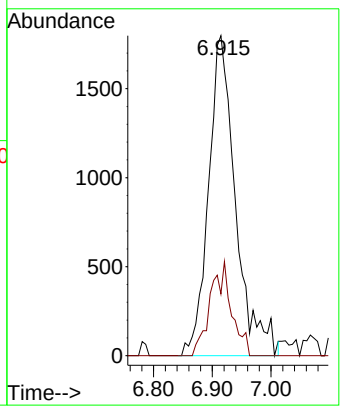


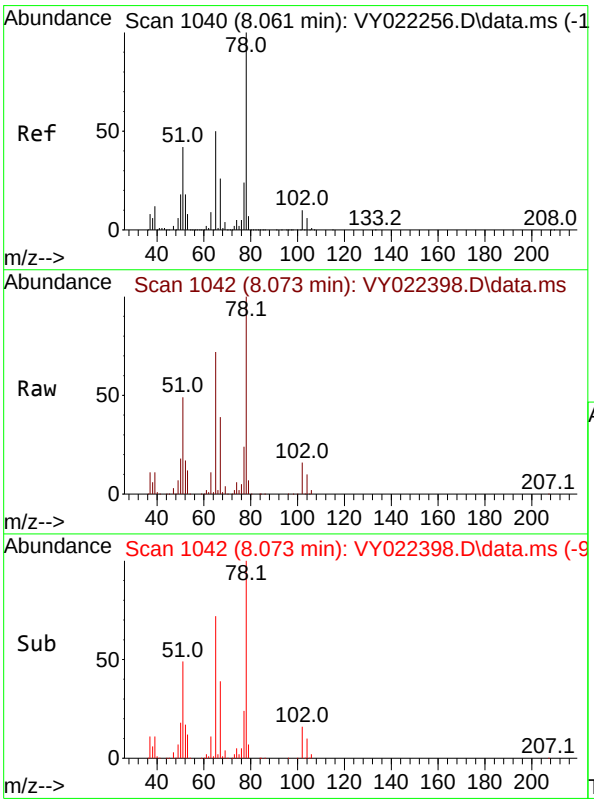
#25
2-Butanone
Concen: 7.262 ug/l
RT: 6.915 min Scan# 8
Delta R.T. 0.018 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Tgt Ion: 43 Resp: 5759

Ion	Ratio	Lower	Upper
43	100		
72	19.3	22.1	33.1#

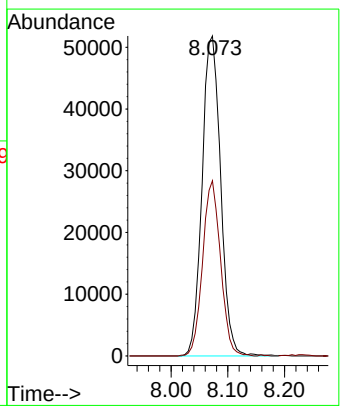


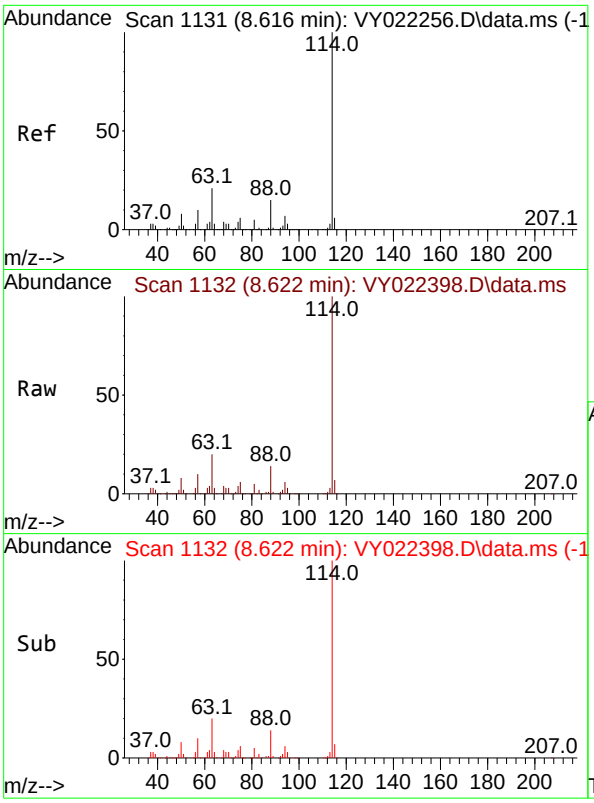


#33
1,2-Dichloroethane-d4
Concen: 46.636 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion: 65 Resp: 117920

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	104.6



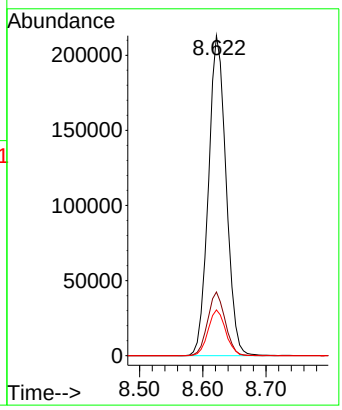


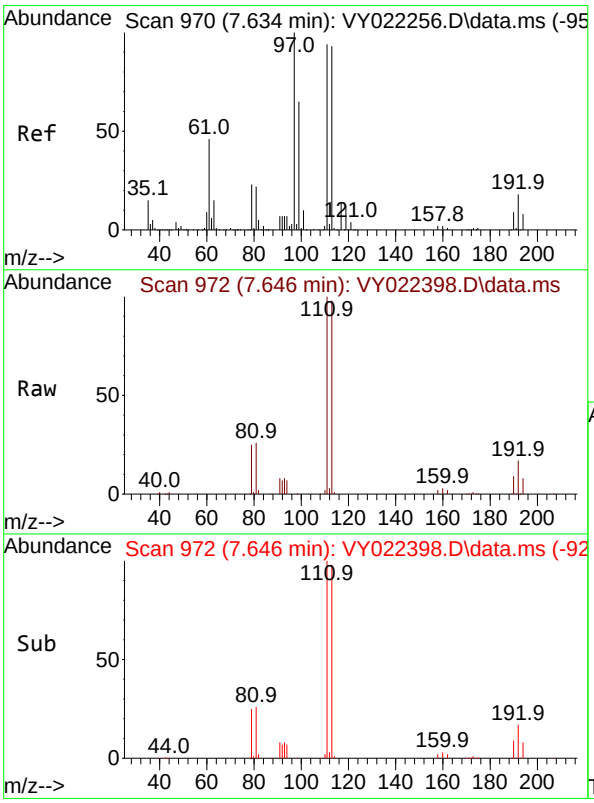
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Tgt Ion:114 Resp: 414060

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	41.0
88	14.3	0.0	29.4

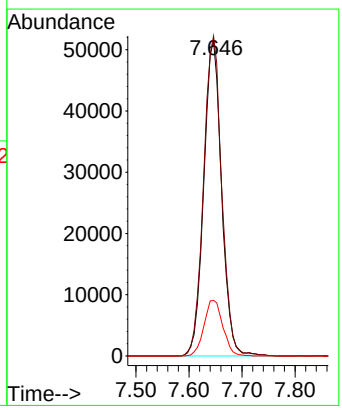


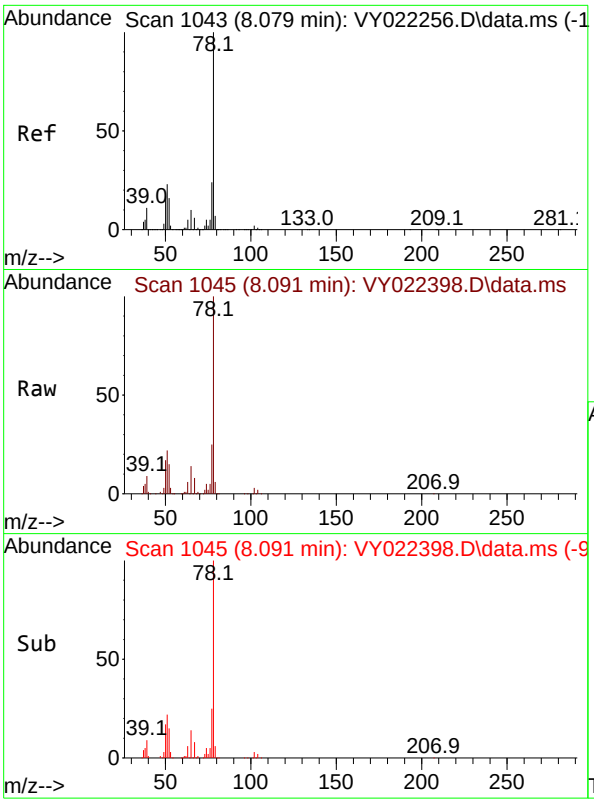


#35
Dibromofluoromethane
Concen: 48.613 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion:113 Resp: 120139

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	123.8
192	18.6	15.2	22.8



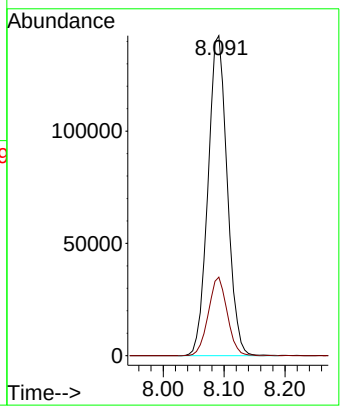


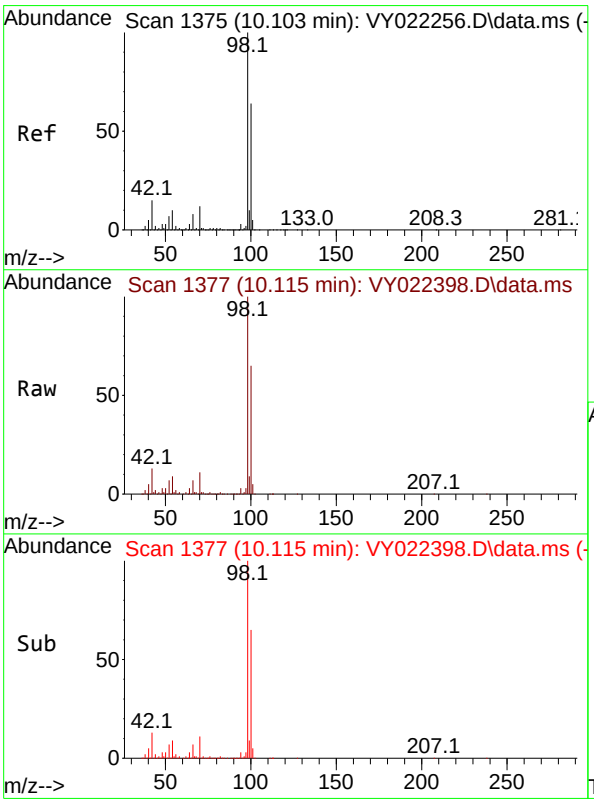
#40
Benzene
Concen: 25.917 ug/l
RT: 8.091 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Tgt Ion: 78 Resp: 312744

Ion	Ratio	Lower	Upper
78	100		
77	24.6	18.9	28.3

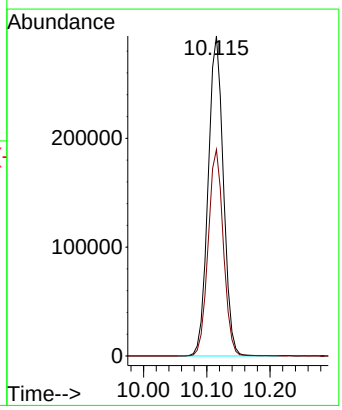


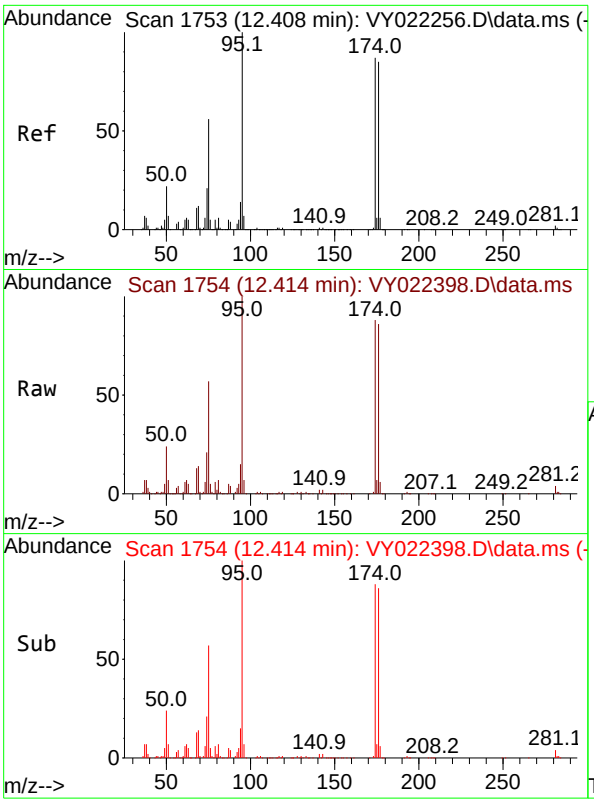


#50
Toluene-d8
Concen: 48.655 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion: 98 Resp: 492469

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.8	77.8



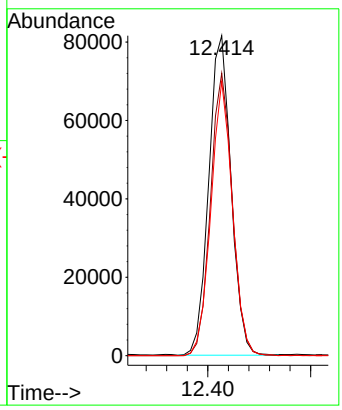


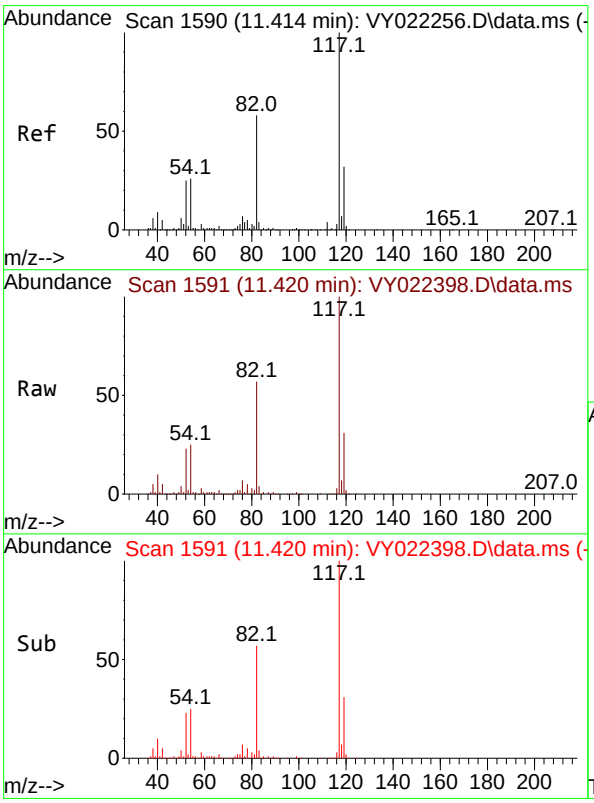
#62
4-Bromofluorobenzene
Concen: 38.254 ug/l
RT: 12.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Tgt Ion: 95 Resp: 122725

Ion	Ratio	Lower	Upper
95	100		
174	86.6	0.0	166.8
176	82.9	0.0	160.8

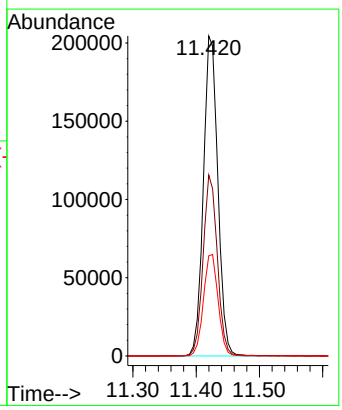


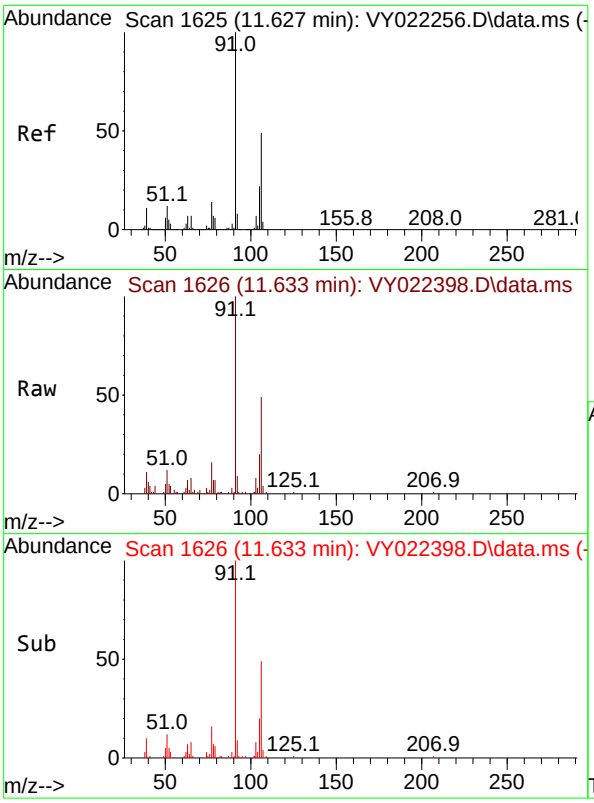


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion:117 Resp: 325678

Ion	Ratio	Lower	Upper
117	100		
82	56.5	46.6	70.0
119	31.3	25.8	38.6



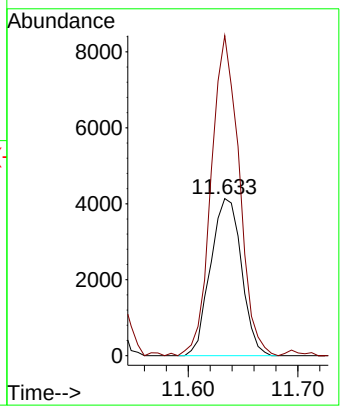


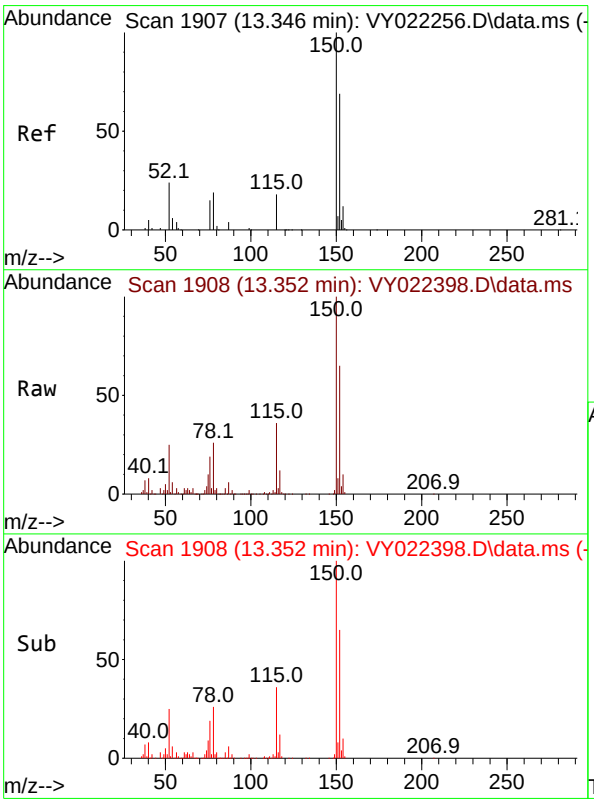
#68
m/p-Xylenes
Concen: 1.564 ug/l
RT: 11.633 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Tgt Ion:106 Resp: 8109

Ion	Ratio	Lower	Upper
106	100		
91	184.4	163.0	244.4

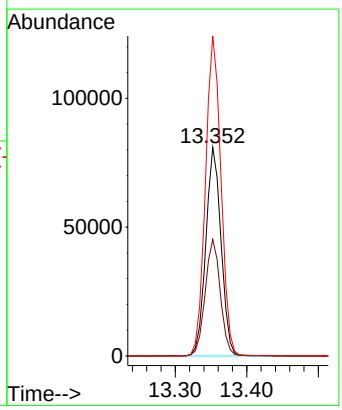




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion:152 Resp: 119664

Ion	Ratio	Lower	Upper
152	100		
115	55.9	29.4	88.2
150	156.1	0.0	353.8



Sample Results: **VY022398.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

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_Y\methods\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022398.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.830	13	18	26	rVB2	45203	64594	4.85%	0.834%
2	2.031	46	51	54	rBV2	8898	13493	1.01%	0.174%
3	2.202	70	79	86	rBV	50966	102059	7.66%	1.318%
4	2.300	90	95	99	rBV	19544	31627	2.37%	0.409%
5	2.519	125	131	133	rBV6	6655	15764	1.18%	0.204%
6	2.842	179	184	195	rVB2	12326	28848	2.17%	0.373%
7	3.190	234	241	253	rVB3	8478	20286	1.52%	0.262%
8	3.885	348	355	362	rBV	8933	24447	1.84%	0.316%
9	4.634	467	478	492	rBV6	10663	45463	3.41%	0.587%
10	7.646	961	972	977	rBV	175350	416458	31.27%	5.379%
11	7.719	977	984	993	rVV	302144	706166	53.02%	9.122%
12	7.799	993	997	1006	rVB4	5919	14307	1.07%	0.185%
13	7.933	1010	1019	1030	rVB4	9428	24384	1.83%	0.315%
14	8.085	1033	1044	1056	rBV3	410459	1048288	78.71%	13.541%
15	8.622	1122	1132	1145	rBV	501286	975828	73.27%	12.605%
16	9.121	1200	1214	1218	rBV6	6214	16467	1.24%	0.213%
17	9.890	1330	1340	1343	rBV7	6667	18867	1.42%	0.244%
18	10.115	1369	1377	1384	rBV	785757	1331761	100.00%	17.202%
19	10.176	1384	1387	1394	rVB	11624	19754	1.48%	0.255%
20	11.420	1583	1591	1602	rBV	665560	1066529	80.08%	13.776%
21	11.523	1602	1608	1613	rBV	11508	18275	1.37%	0.236%
22	11.633	1618	1626	1632	rVV	26572	58854	4.42%	0.760%
23	11.962	1675	1680	1688	rVB	14760	24953	1.87%	0.322%
24	12.414	1747	1754	1763	rBV	465434	712175	53.48%	9.199%
25	12.743	1804	1808	1815	rVB7	7215	13659	1.03%	0.176%
26	13.048	1853	1858	1865	rBV2	9026	15735	1.18%	0.203%
27	13.352	1902	1908	1917	rVB	513259	771921	57.96%	9.971%
28	13.554	1937	1941	1946	rVB	16085	23454	1.76%	0.303%
29	13.822	1979	1985	1990	rBV4	10419	19588	1.47%	0.253%
30	13.889	1990	1996	2003	rVB3	44130	75020	5.63%	0.969%
31	15.151	2197	2203	2209	rVB	13387	22713	1.71%	0.293%

Sum of corrected areas: 7741737

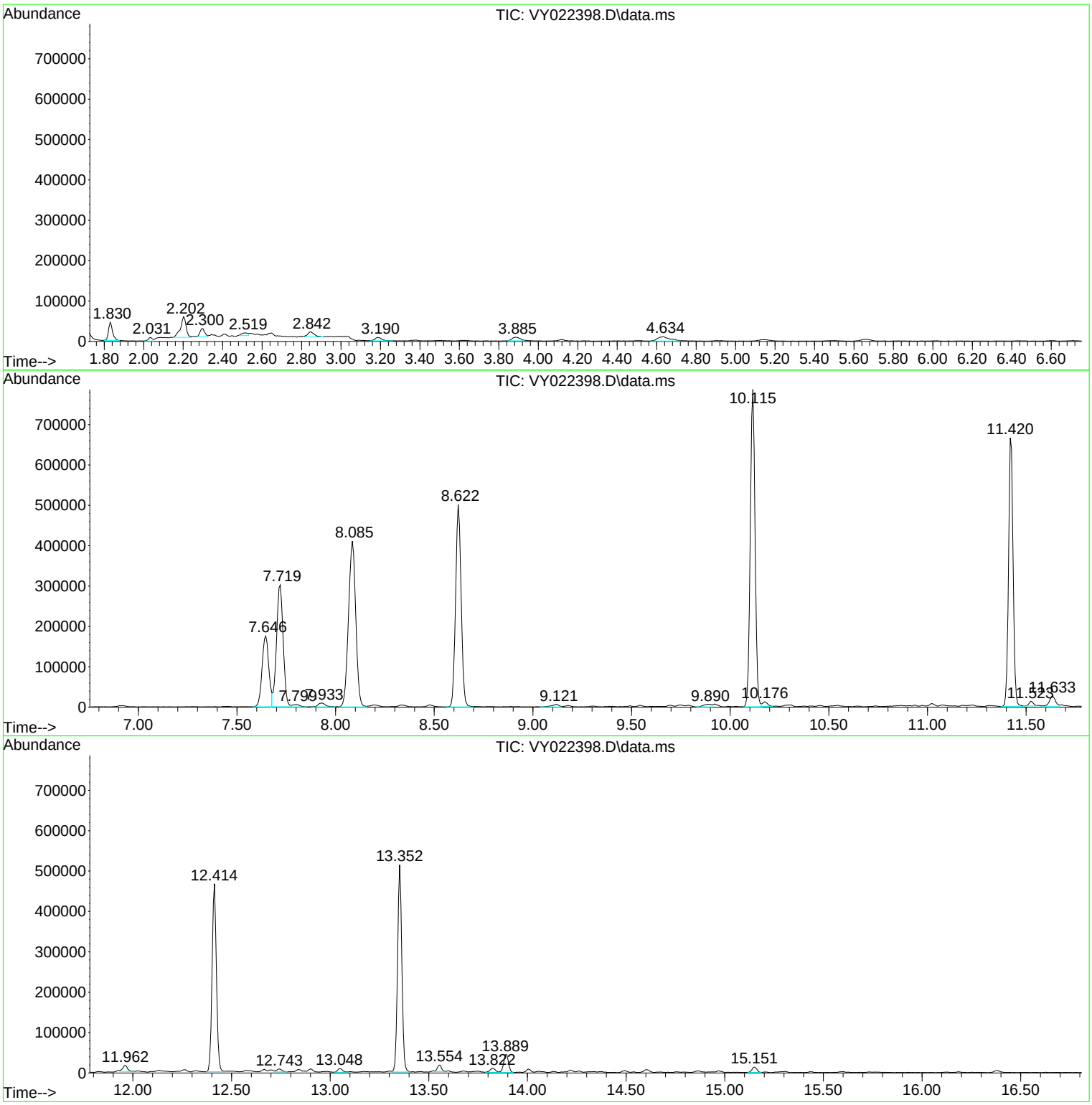
Sample Results: **VY022398.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

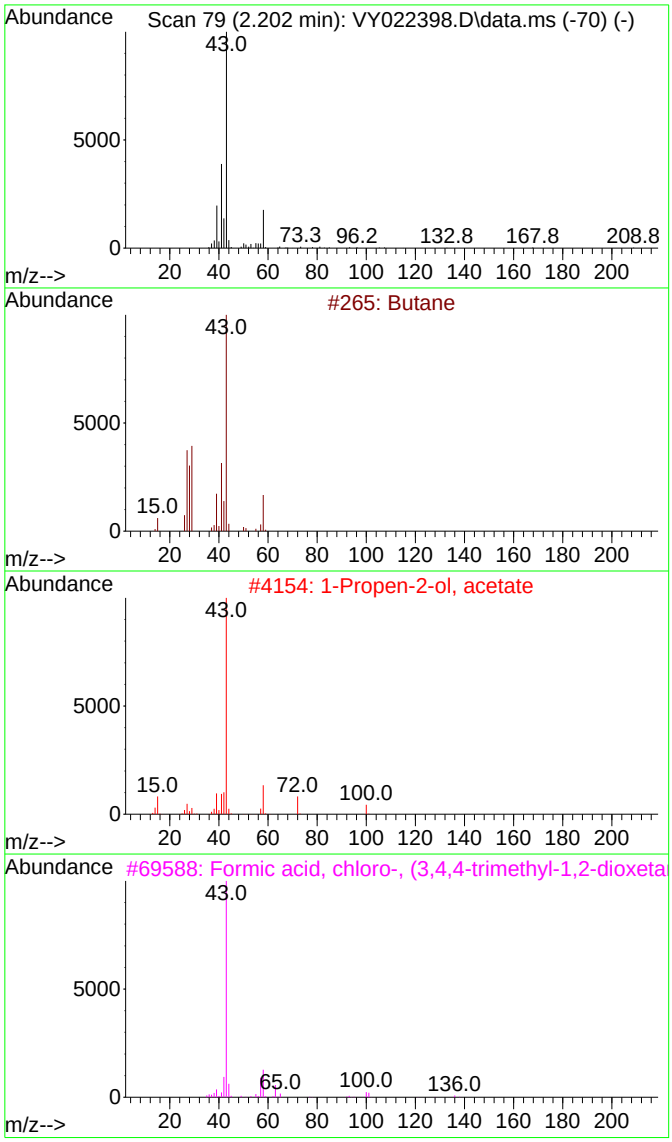
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

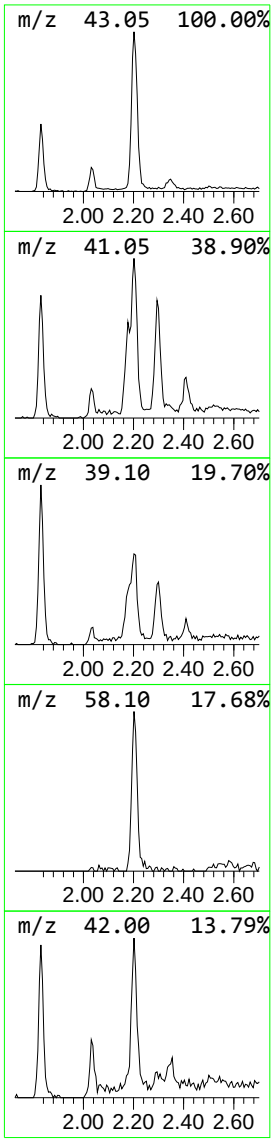
****

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.202	7.23 ug/l	102059	Pentafluorobenzene	7.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	59
2	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	38
3	Formic acid, chloro-, (3,4,4-tri...	194	C7H11ClO4	107323-92-2	36
4	Methyl Isobutyl Ketone	100	C6H12O	000108-10-1	17
5	Methyl glyoxal	72	C3H4O2	000078-98-8	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

					--Internal Standard---		
TIC Top Hit name	RT	EstConc	Units	Response	# RT	Resp	Conc
Butane	2.202	7.2	ug/l	102059	1 7.719	706166	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Quant Time: May 23 23:23:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	340717	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	608366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	471350	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	165102	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	181573	48.761	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.520%			
35) Dibromofluoromethane	7.640	113	181713	50.044	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.080%			
50) Toluene-d8	10.109	98	712382	47.903	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.800%			
62) 4-Bromofluorobenzene	12.408	95	175882	37.313	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 74.620%			

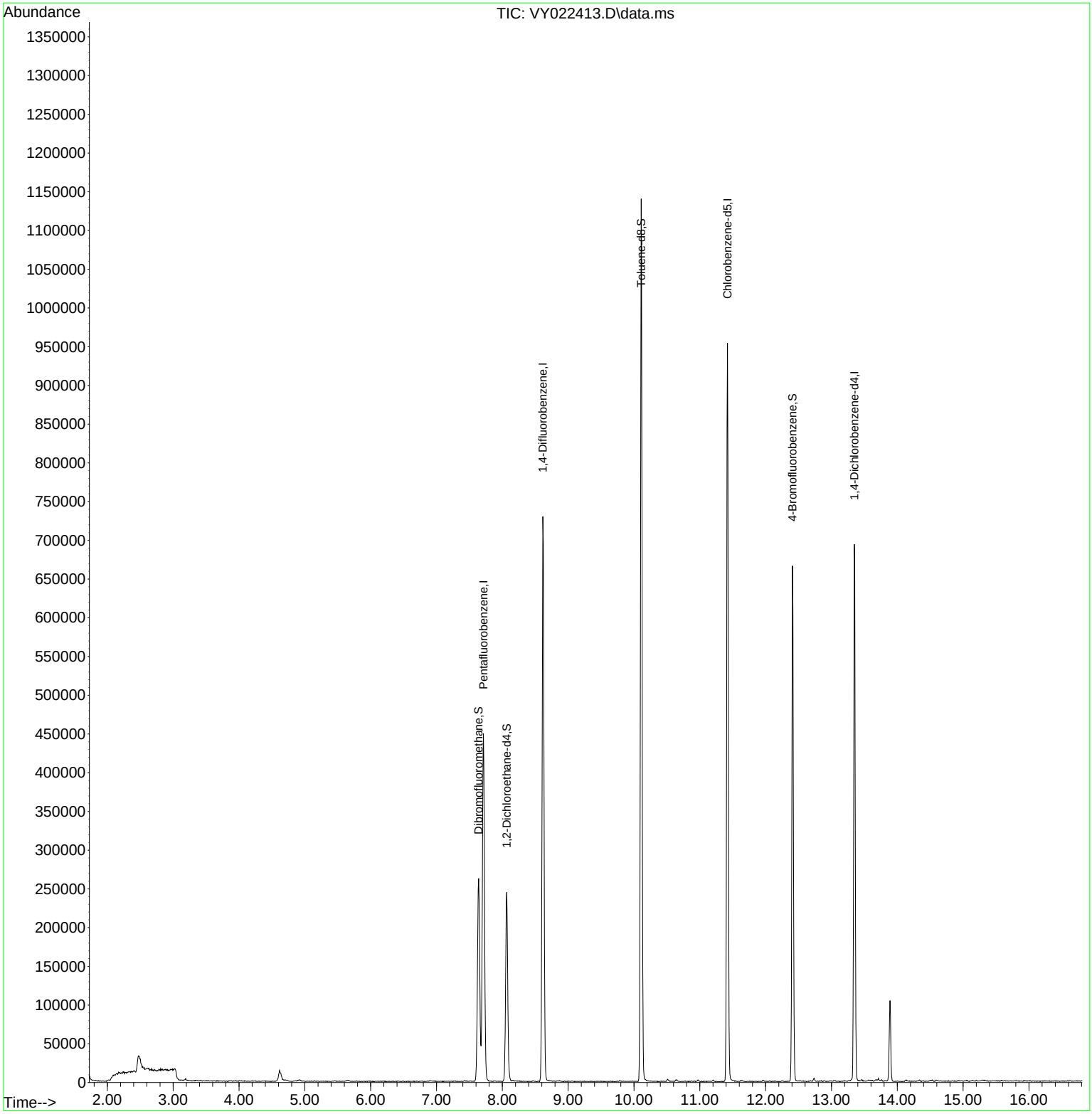
Target Compounds Qvalue

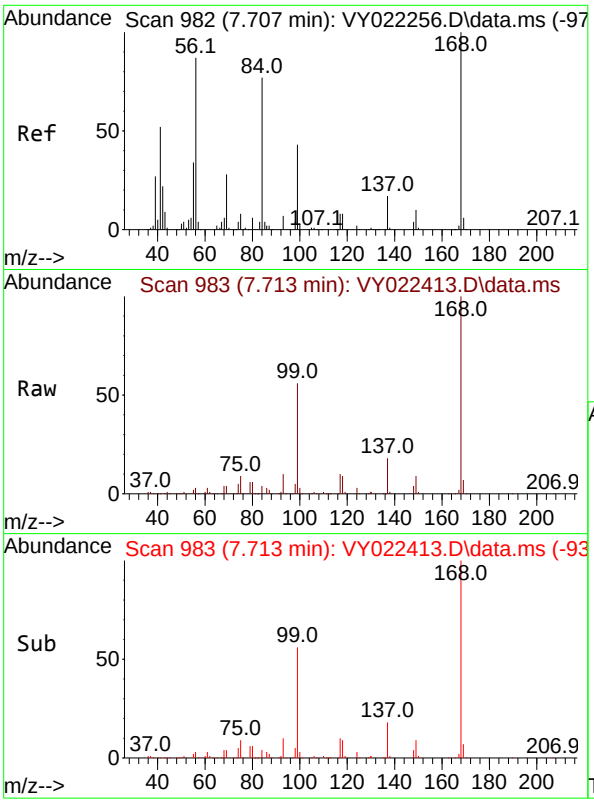
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Quant Time: May 23 23:23:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



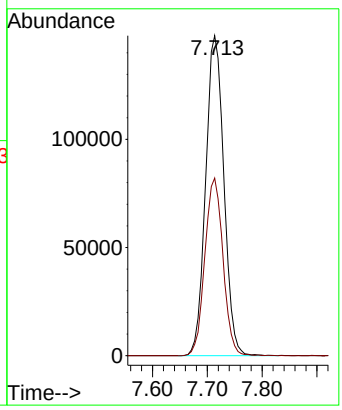


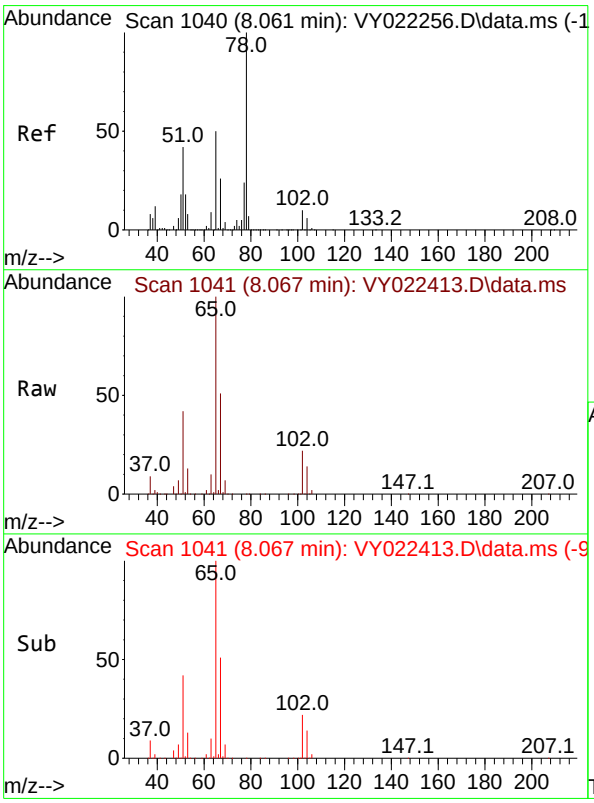
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Tgt Ion:168 Resp: 340717

Ion	Ratio	Lower	Upper
168	100		
99	55.5	44.2	66.4

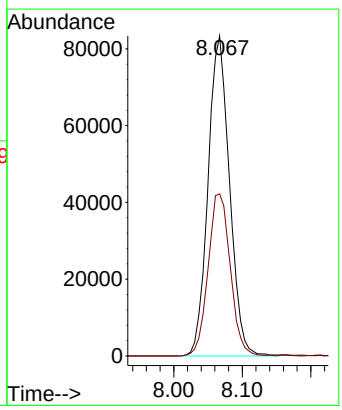


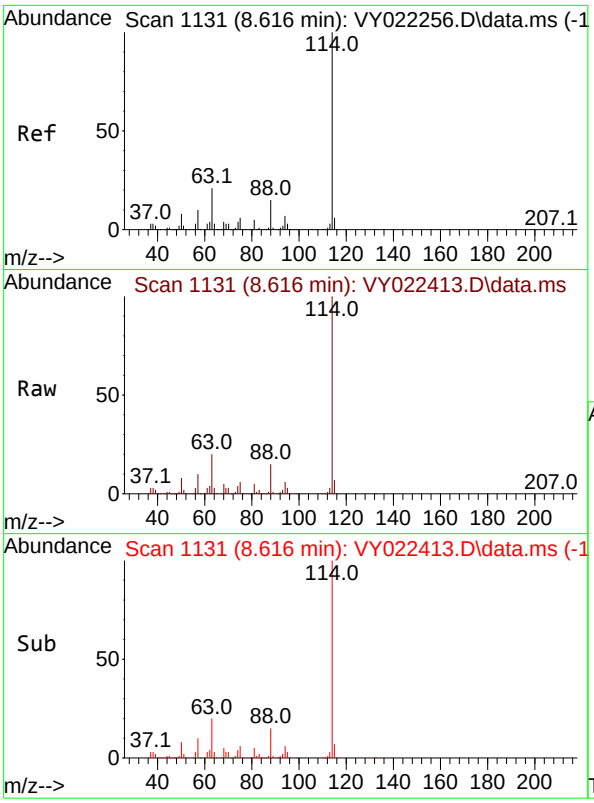


#33
1,2-Dichloroethane-d4
Concen: 48.761 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Tgt Ion: 65 Resp: 181573

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	104.6



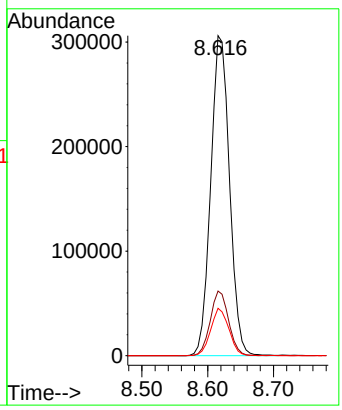


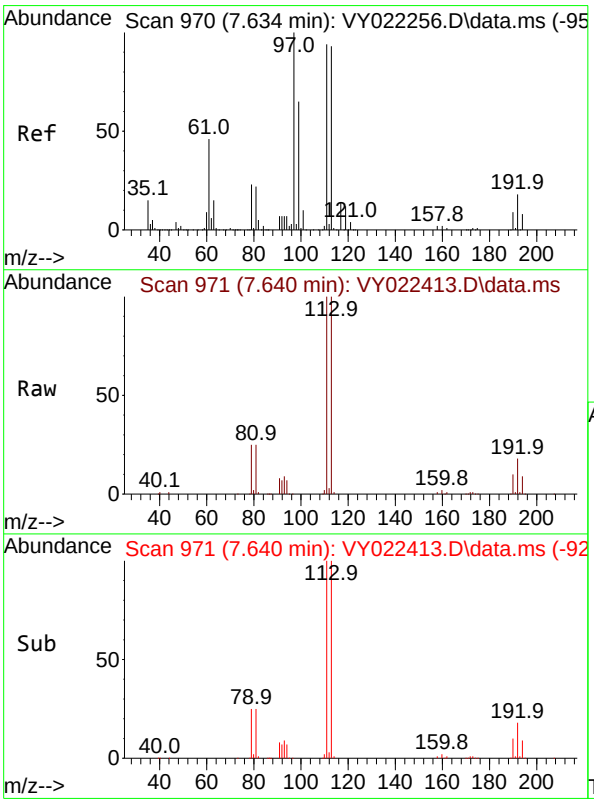
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Tgt Ion:114 Resp: 608366

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	41.0
88	14.8	0.0	29.4

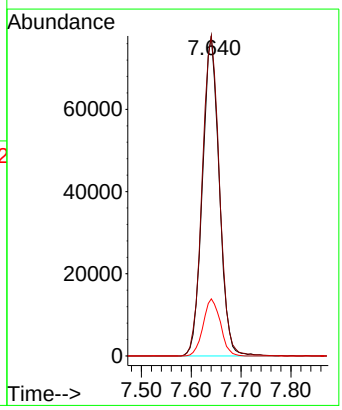


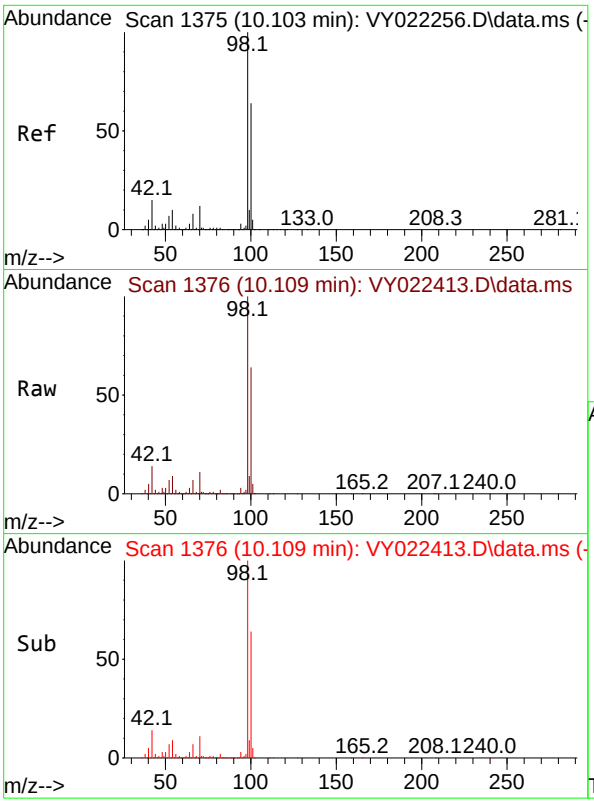


#35
Dibromofluoromethane
Concen: 50.044 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Tgt Ion:113 Resp: 181713

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.6	123.8
192	18.4	15.2	22.8



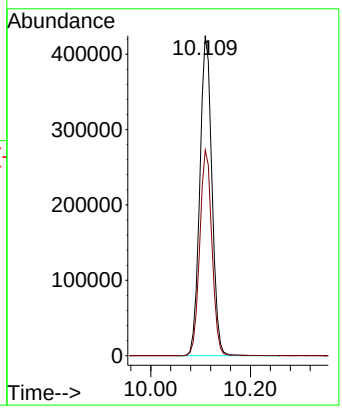


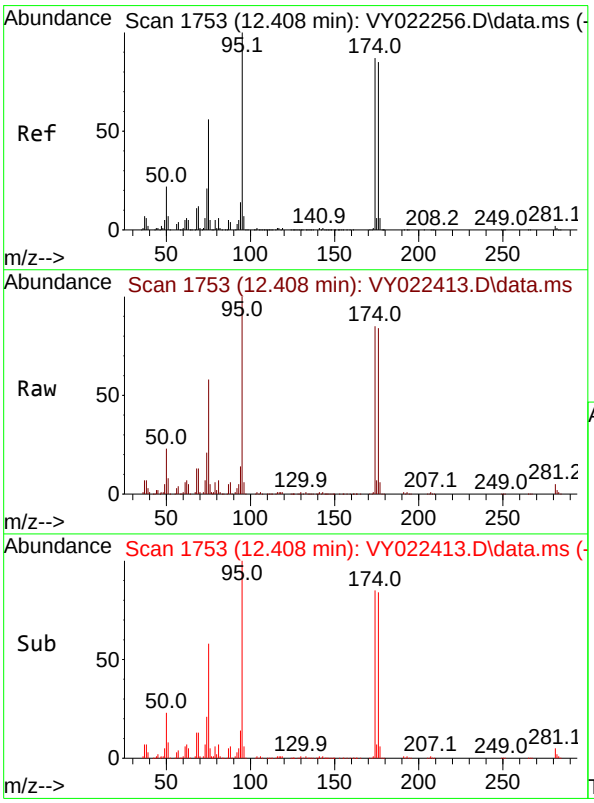
#50
Toluene-d8
Concen: 47.903 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Tgt Ion: 98 Resp: 712382

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.8	77.8

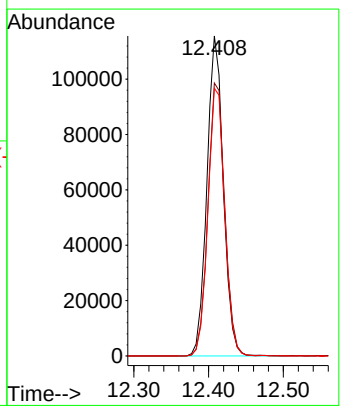


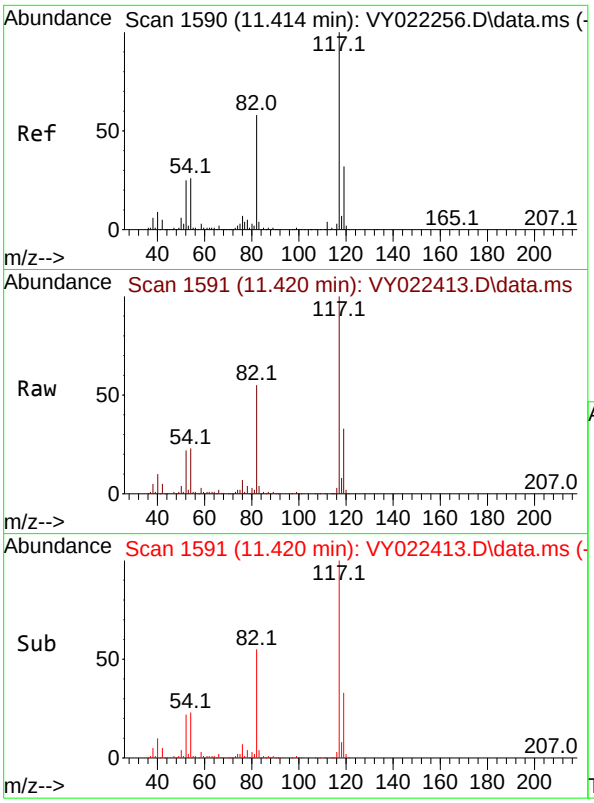


#62
4-Bromofluorobenzene
Concen: 37.313 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Tgt Ion: 95 Resp: 175882

Ion	Ratio	Lower	Upper
95	100		
174	87.9	0.0	166.8
176	85.5	0.0	160.8



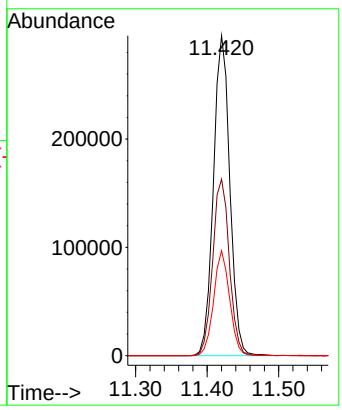


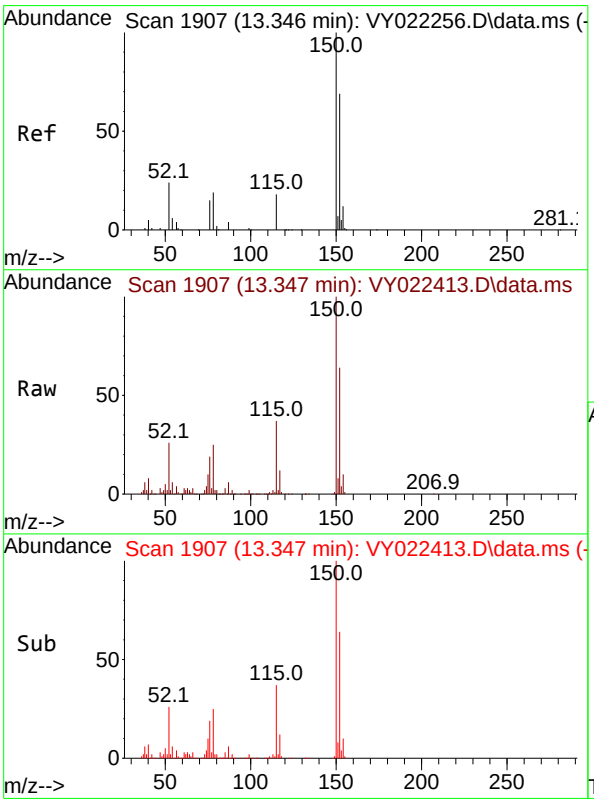
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Tgt Ion:117 Resp: 471350

Ion	Ratio	Lower	Upper
117	100		
82	55.2	46.6	70.0
119	32.8	25.8	38.6

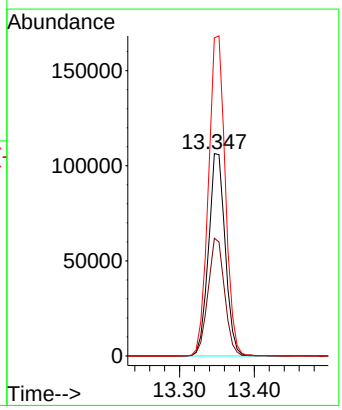




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Tgt Ion:152 Resp: 165102

Ion	Ratio	Lower	Upper
152	100		
115	57.9	29.4	88.2
150	159.9	0.0	353.8



Sample Results: **VY022413.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

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_Y\methods\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022413.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.470	116	123	133	rBV3	20939	77245	3.99%	0.811%
2	4.616	467	475	482	rBV2	13592	36005	1.86%	0.378%
3	7.640	960	971	977	rBV	262117	630968	32.62%	6.626%
4	7.713	977	983	997	rVB	448707	1017173	52.58%	10.681%
5	8.067	1030	1041	1053	rBV	244608	542318	28.03%	5.695%
6	8.616	1123	1131	1146	rBV	729451	1428956	73.87%	15.005%
7	10.109	1368	1376	1386	rBV	1139745	1934537	100.00%	20.314%
8	11.420	1581	1591	1604	rBV	953453	1536438	79.42%	16.134%
9	12.408	1745	1753	1767	rBV2	665712	1067727	55.19%	11.212%
10	13.347	1897	1907	1916	rBV	692827	1085760	56.13%	11.402%
11	13.889	1988	1996	2002	rBV	103981	165820	8.57%	1.741%

Sum of corrected areas: 9522947

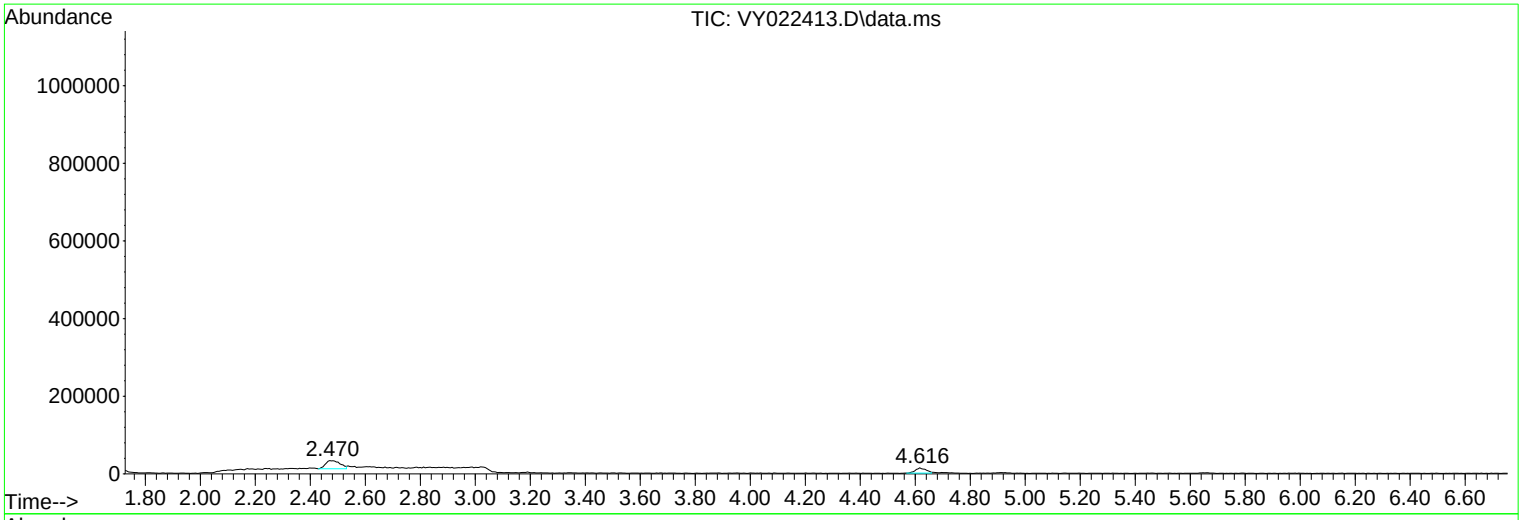
Sample Results: **VY022413.D**

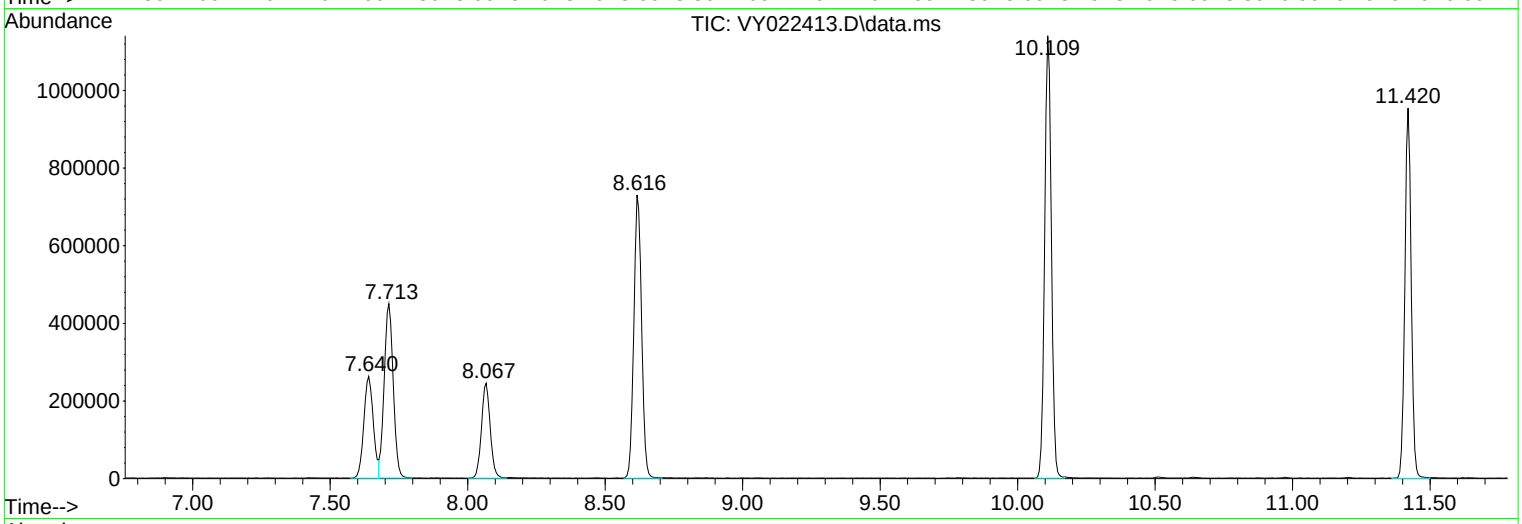
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

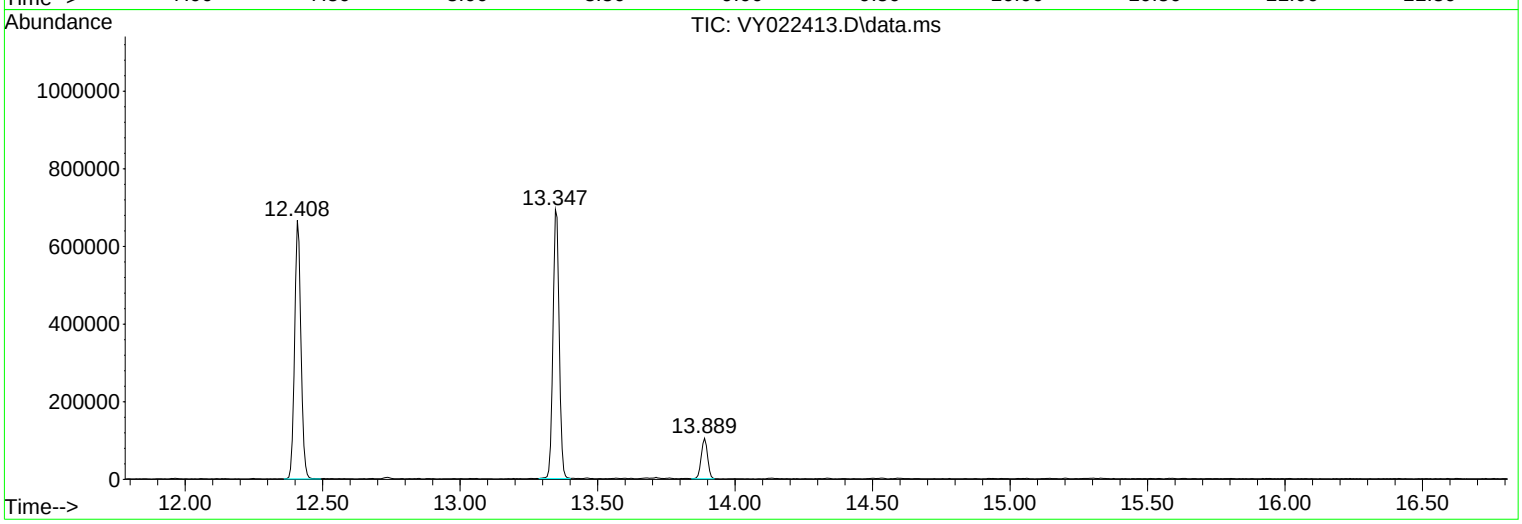
Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022413.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Quant Time: May 23 03:40:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

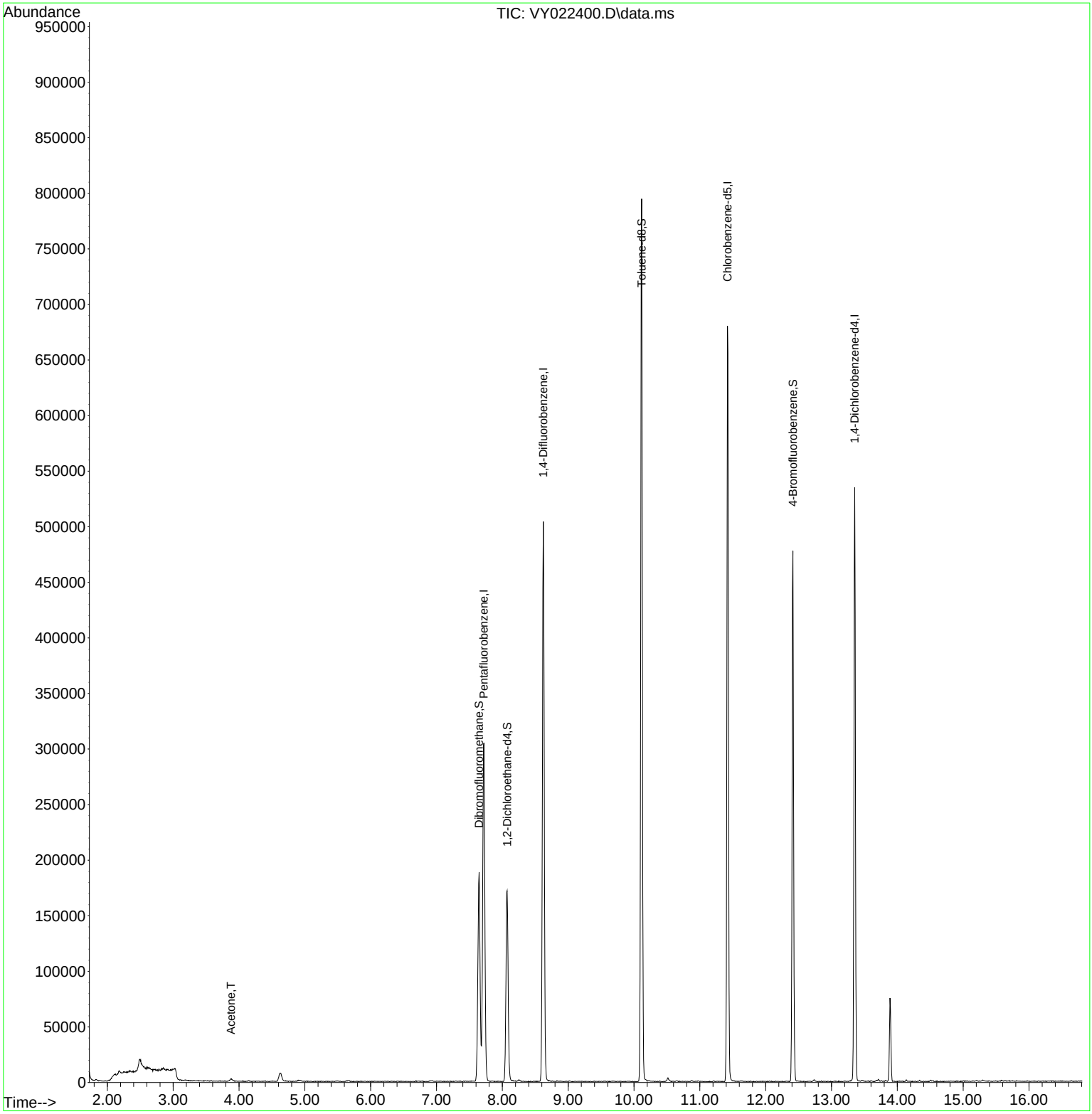
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	236218	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	418190	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	340404	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	124499	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	130358	50.494	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.980%			
35) Dibromofluoromethane	7.646	113	128569	51.510	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.020%			
50) Toluene-d8	10.115	98	498238	48.739	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.480%			
62) 4-Bromofluorobenzene	12.414	95	128731	39.729	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 79.460%			
Target Compounds						Qvalue
16) Acetone	3.879	43	4065	8.397	ug/l	96

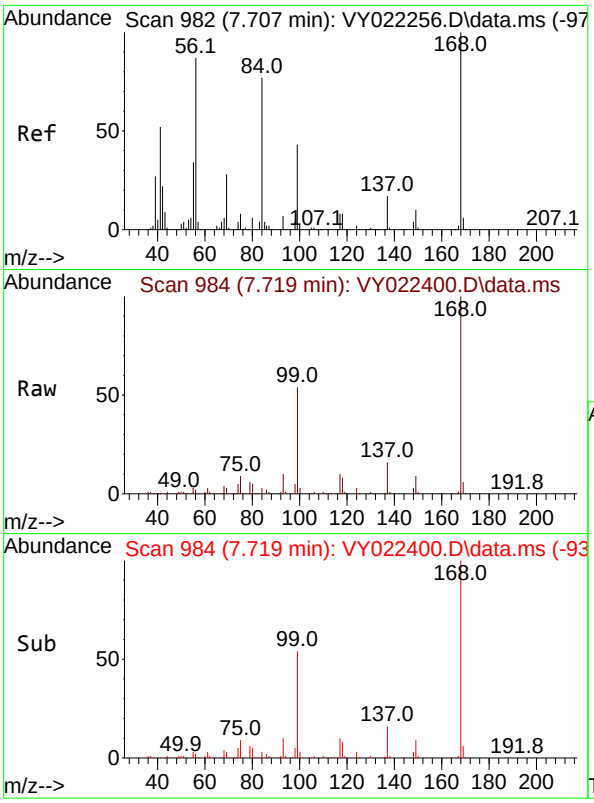
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Quant Time: May 23 03:40:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



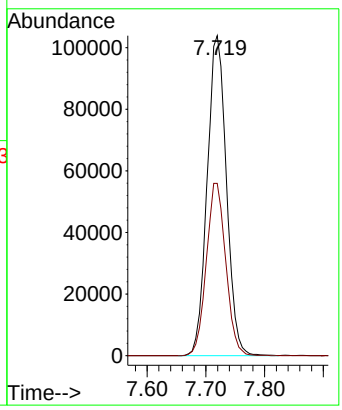


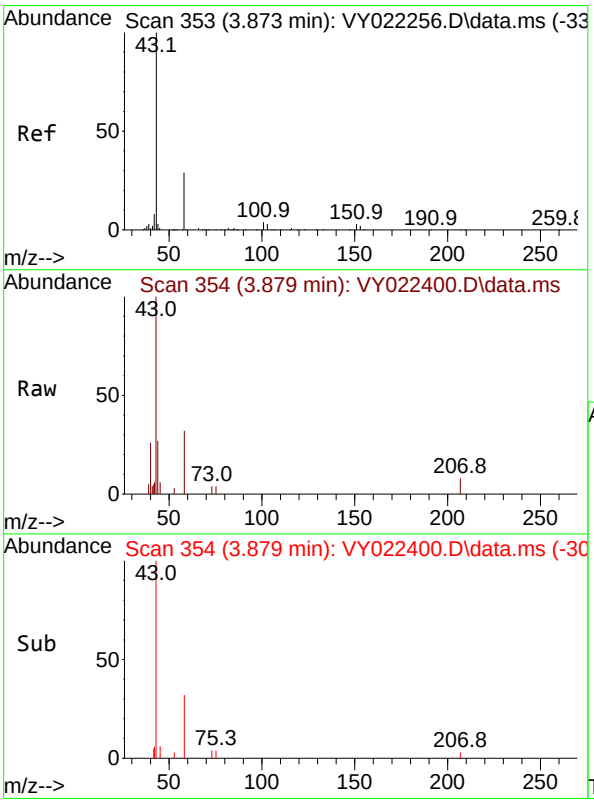
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Tgt Ion:168 Resp: 236218

Ion	Ratio	Lower	Upper
168	100		
99	53.9	44.2	66.4

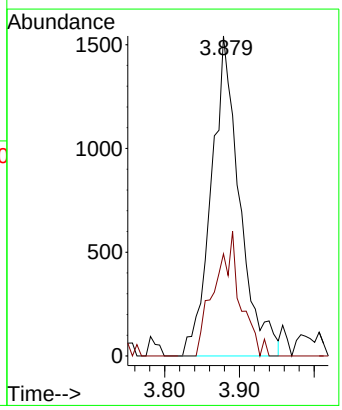


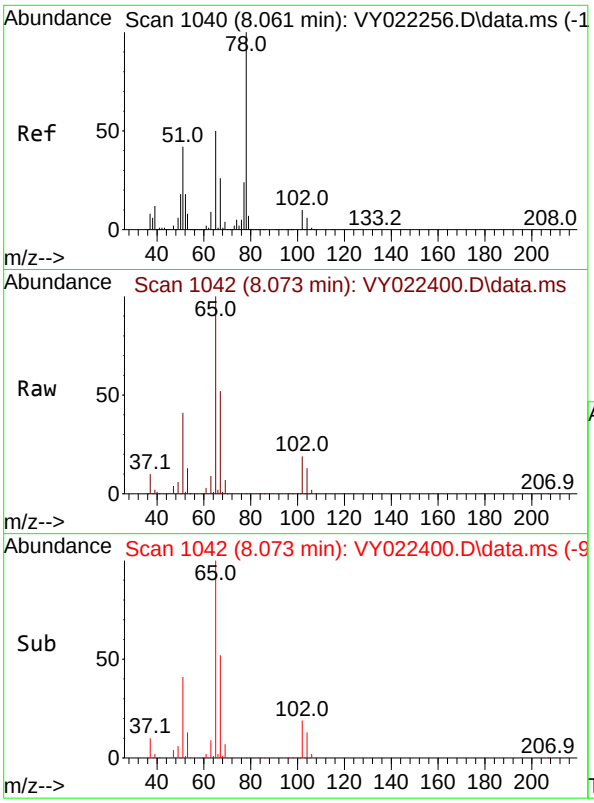


#16
Acetone
Concen: 8.397 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Tgt Ion: 43 Resp: 4065

Ion	Ratio	Lower	Upper
43	100		
58	31.9	23.6	35.4



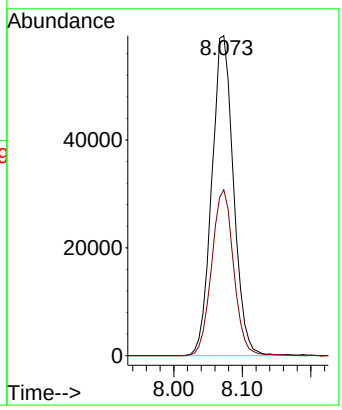


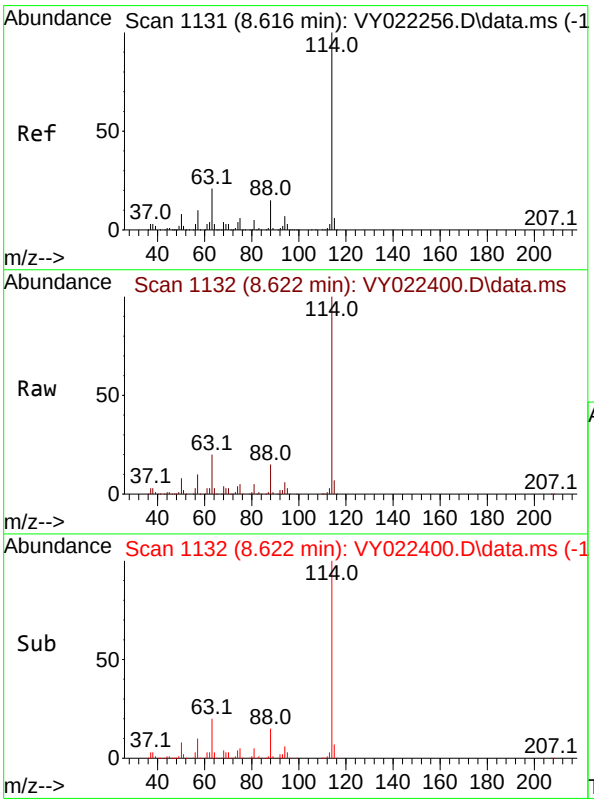
#33
1,2-Dichloroethane-d4
Concen: 50.494 ug/l
RT: 8.073 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Tgt Ion: 65 Resp: 130358

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	104.6

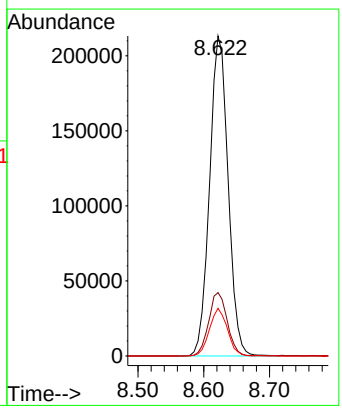


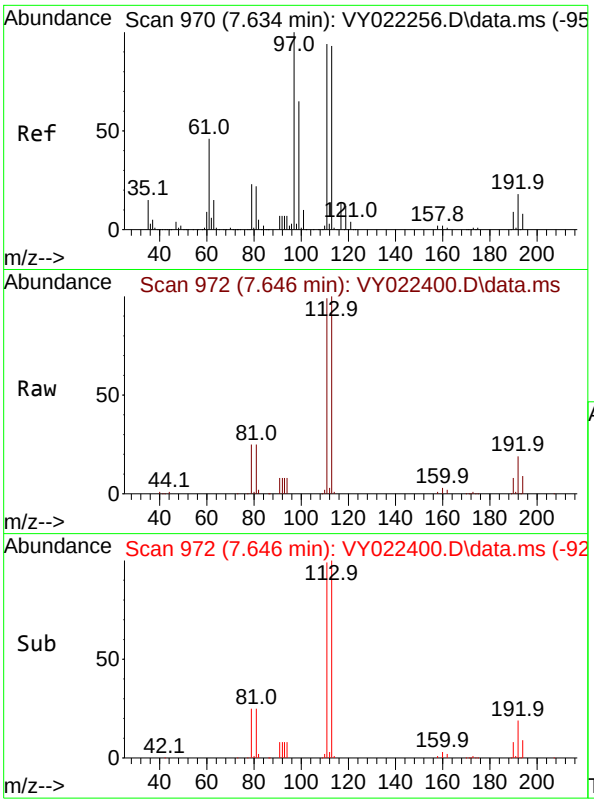


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Tgt Ion:114 Resp: 418190

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	41.0
88	14.9	0.0	29.4



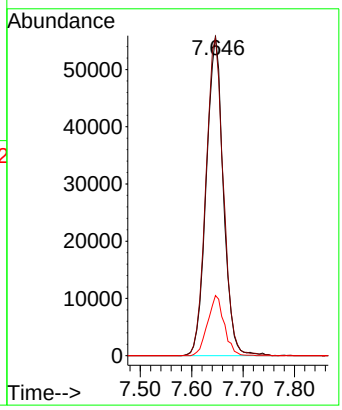


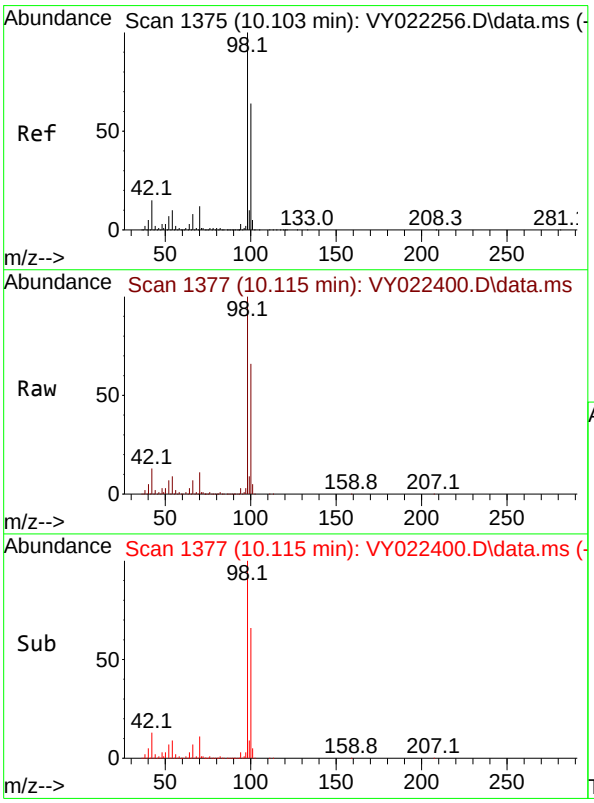
#35
Dibromofluoromethane
Concen: 51.510 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Tgt Ion:113 Resp: 128569

Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.6	123.8
192	18.3	15.2	22.8

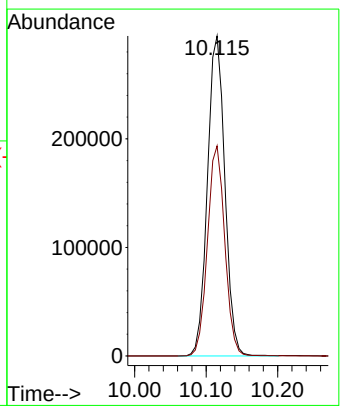


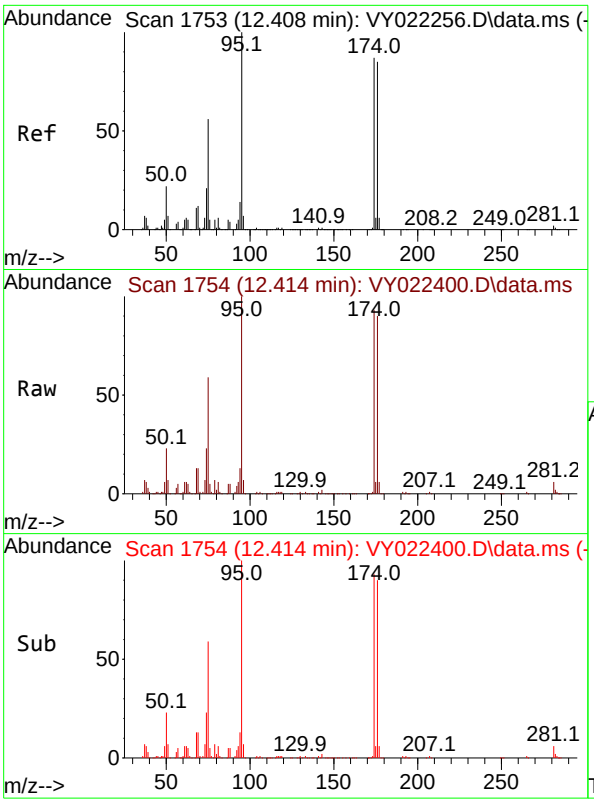


#50
Toluene-d8
Concen: 48.739 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Tgt Ion: 98 Resp: 498238

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.8	77.8



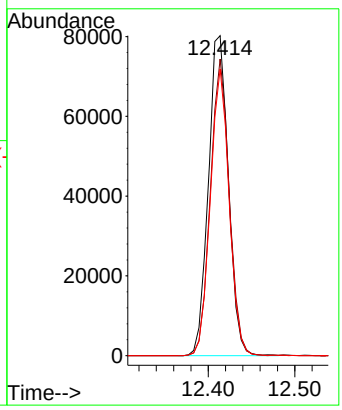


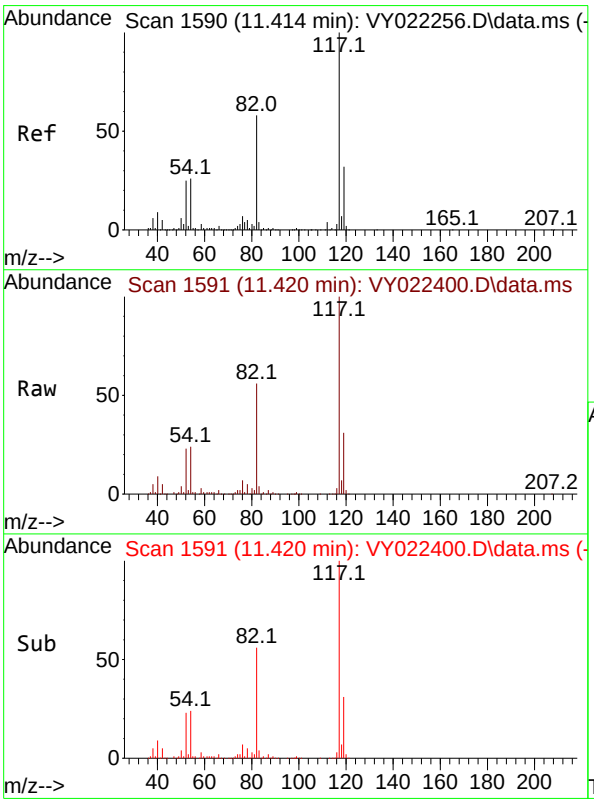
#62
4-Bromofluorobenzene
Concen: 39.729 ug/l
RT: 12.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Tgt Ion: 95 Resp: 128731

Ion	Ratio	Lower	Upper
95	100		
174	87.7	0.0	166.8
176	84.1	0.0	160.8

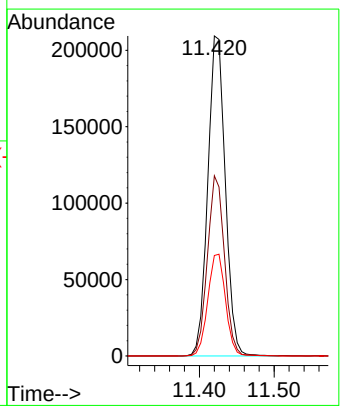


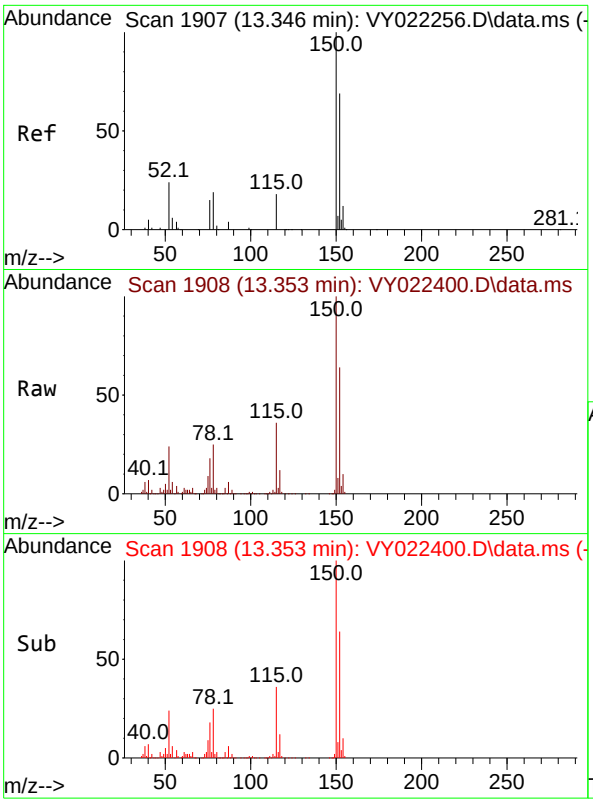


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Tgt Ion:117 Resp: 340404

Ion	Ratio	Lower	Upper
117	100		
82	56.3	46.6	70.0
119	31.4	25.8	38.6



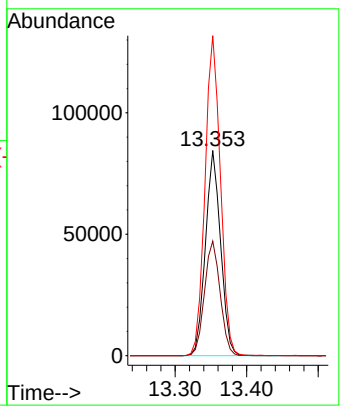


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Tgt Ion:152 Resp: 124499

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	158.0	0.0	353.8



Sample Results: **VY022400.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

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_Y\methods\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022400.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.111	51	64	65	rBV6	5683	16615	1.22%	0.246%
2	2.495	120	127	130	rBV3	9839	24365	1.79%	0.361%
3	4.622	468	476	486	rBV3	7564	24437	1.80%	0.362%
4	7.646	962	972	978	rBV	187957	445636	32.80%	6.607%
5	7.719	978	984	999	rVB	304790	697846	51.36%	10.347%
6	8.073	1032	1042	1055	rBV	171557	388967	28.63%	5.767%
7	8.622	1124	1132	1145	rBV	503560	984552	72.46%	14.597%
8	10.115	1368	1377	1391	rBV	794203	1358669	100.00%	20.144%
9	11.420	1583	1591	1605	rBV	679898	1105063	81.33%	16.384%
10	12.414	1746	1754	1763	rBV2	477466	773069	56.90%	11.462%
11	13.353	1898	1908	1918	rBV	534080	811639	59.74%	12.034%
12	13.889	1989	1996	2002	rBV2	74970	113871	8.38%	1.688%

Sum of corrected areas: 6744729

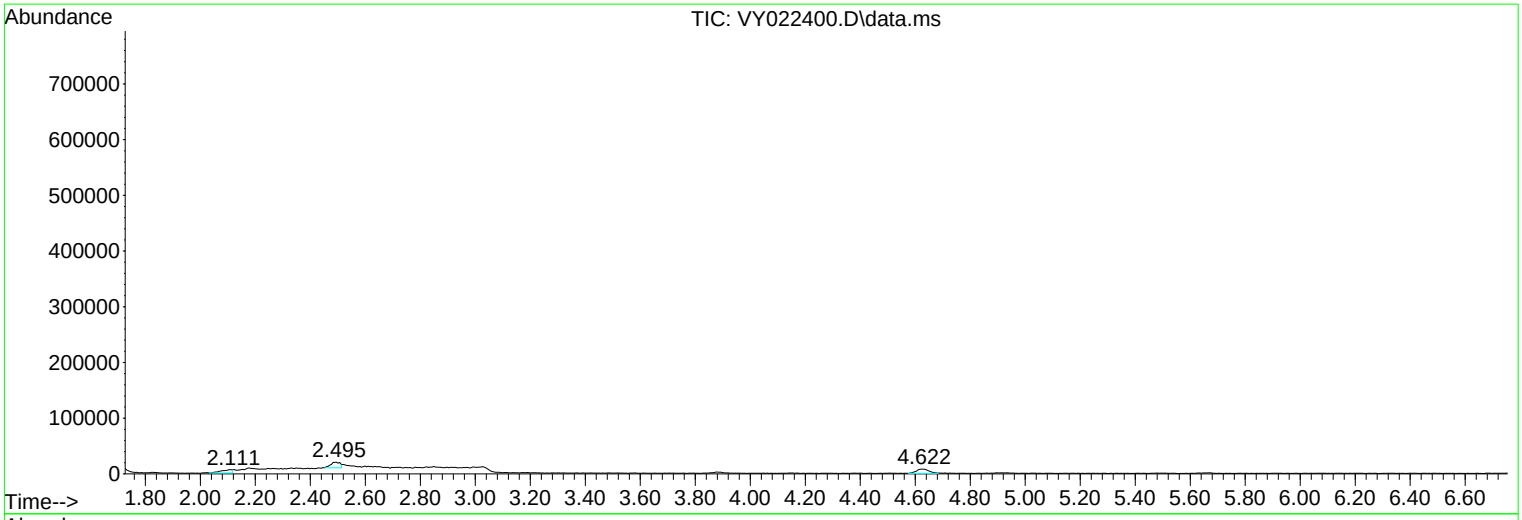
Sample Results: **VY022400.D**

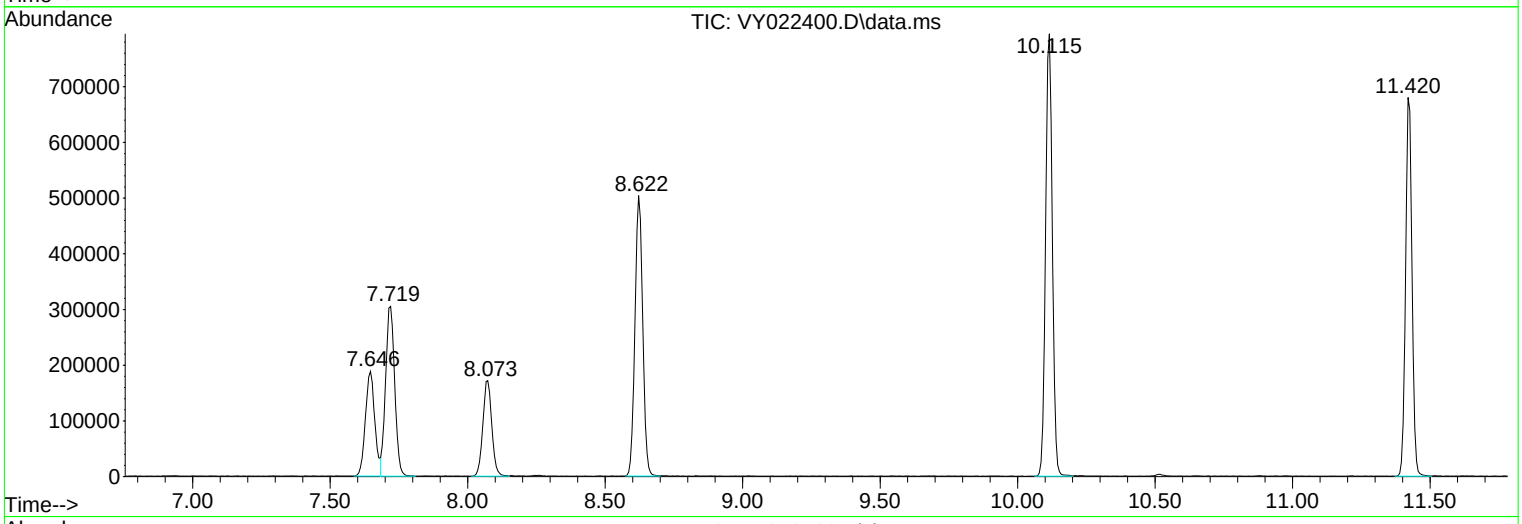
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

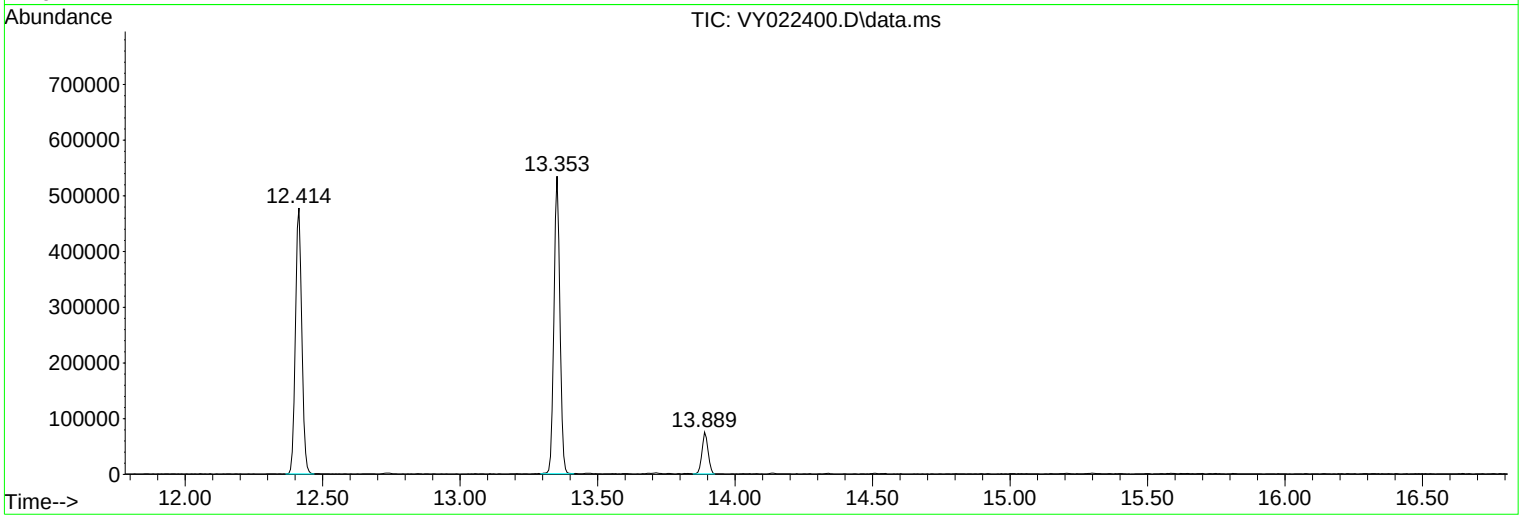
Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Quant Time: May 23 03:31:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

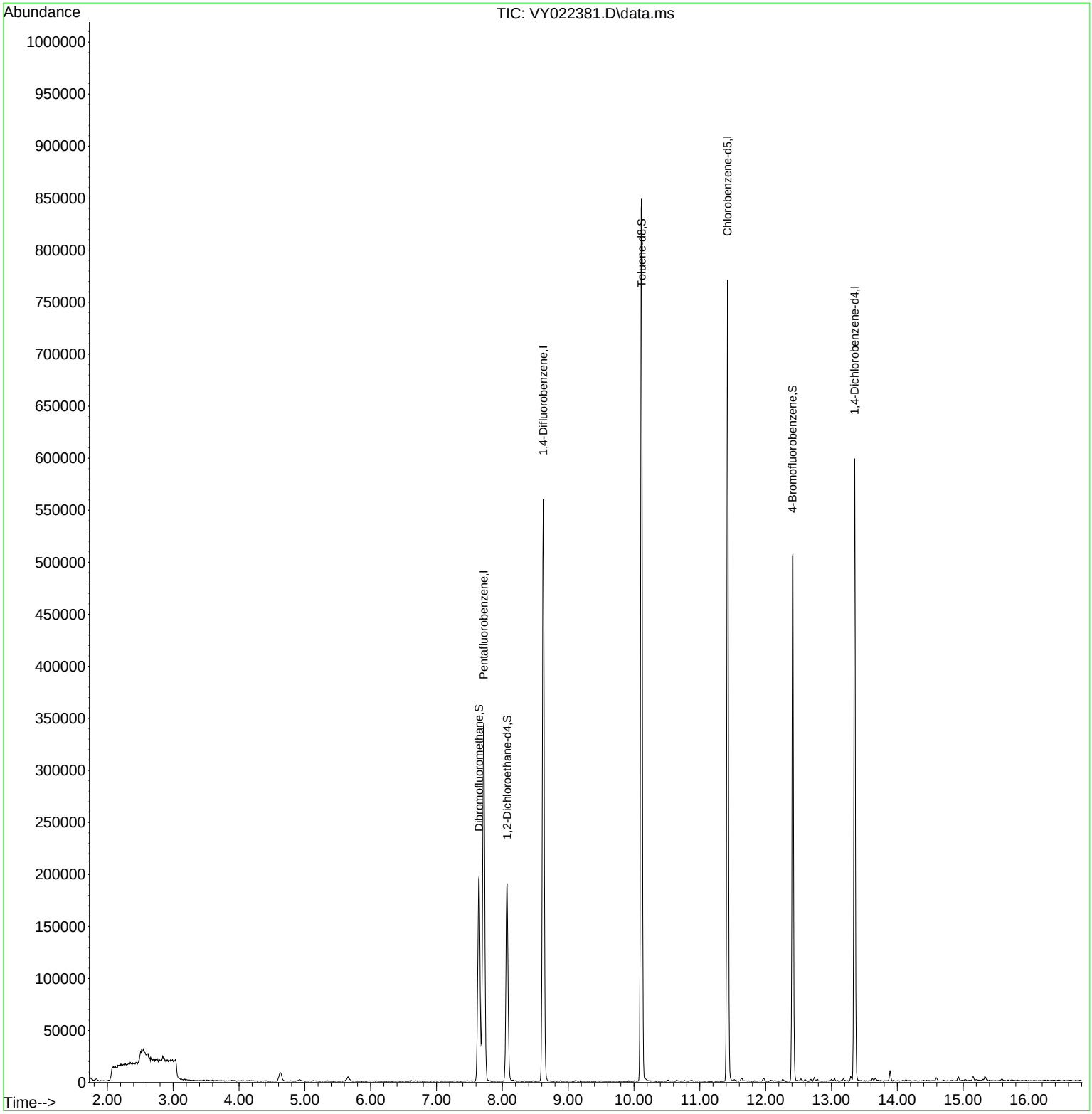
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	263712	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	465826	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	376365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	137350	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	140906	48.890	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.780%			
35) Dibromofluoromethane	7.646	113	138461	49.800	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.600%			
50) Toluene-d8	10.115	98	554254	48.674	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.340%			
62) 4-Bromofluorobenzene	12.408	95	142658	39.525	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 79.060%			
Target Compounds						Qvalue

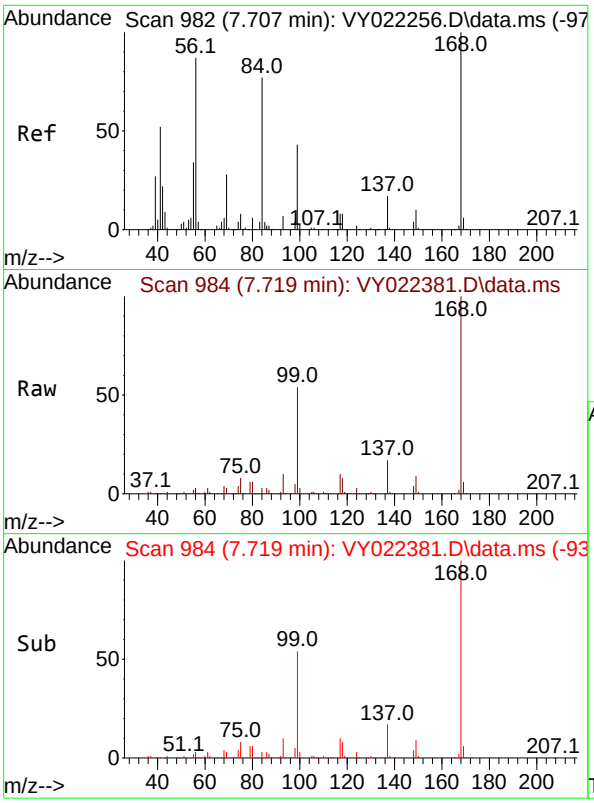
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Quant Time: May 23 03:31:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



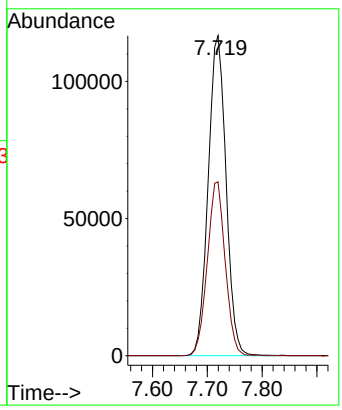


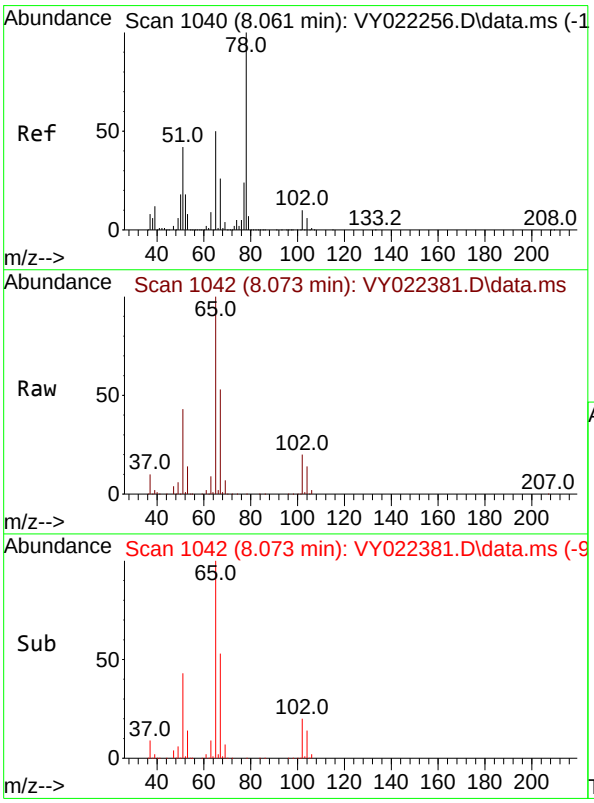
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Tgt Ion:168 Resp: 263712

Ion	Ratio	Lower	Upper
168	100		
99	54.4	44.2	66.4

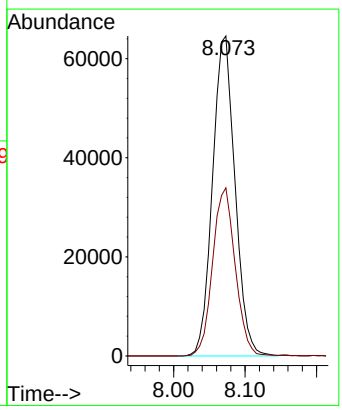


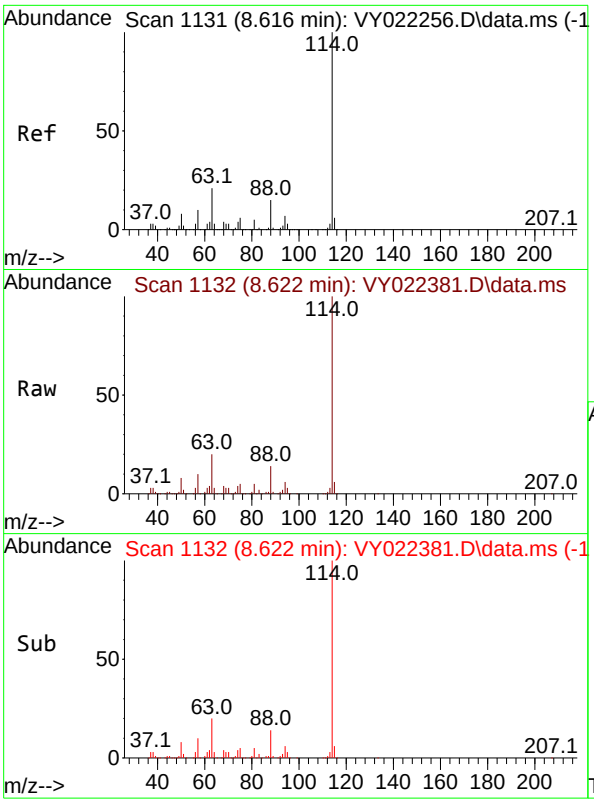


#33
1,2-Dichloroethane-d4
Concen: 48.890 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion: 65 Resp: 140906

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	104.6



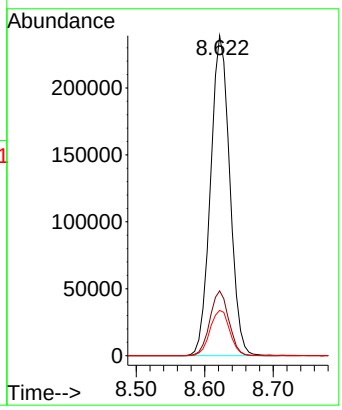


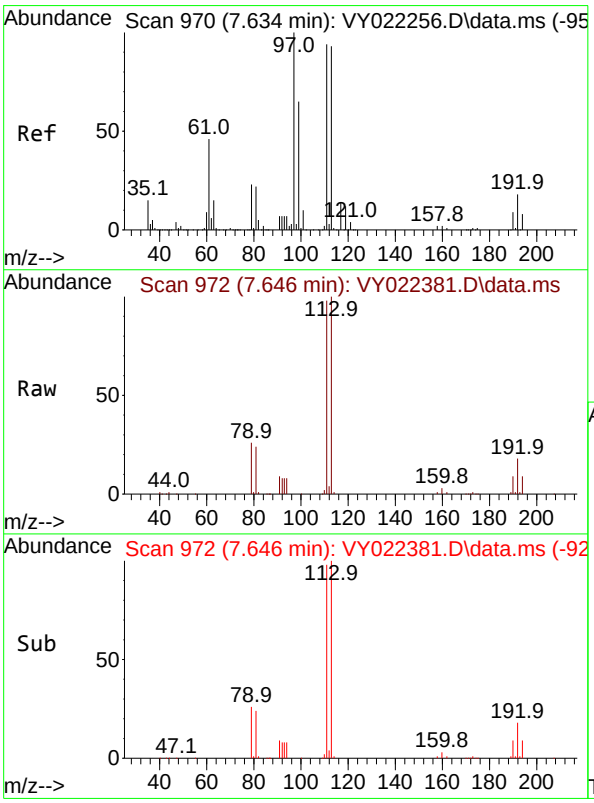
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Tgt Ion:114 Resp: 465826

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	41.0
88	14.1	0.0	29.4

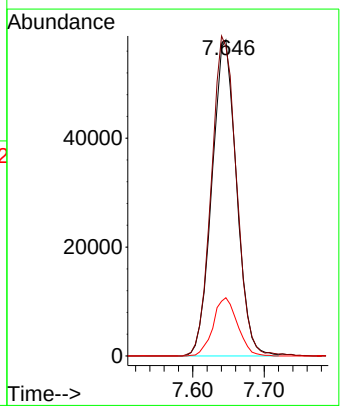


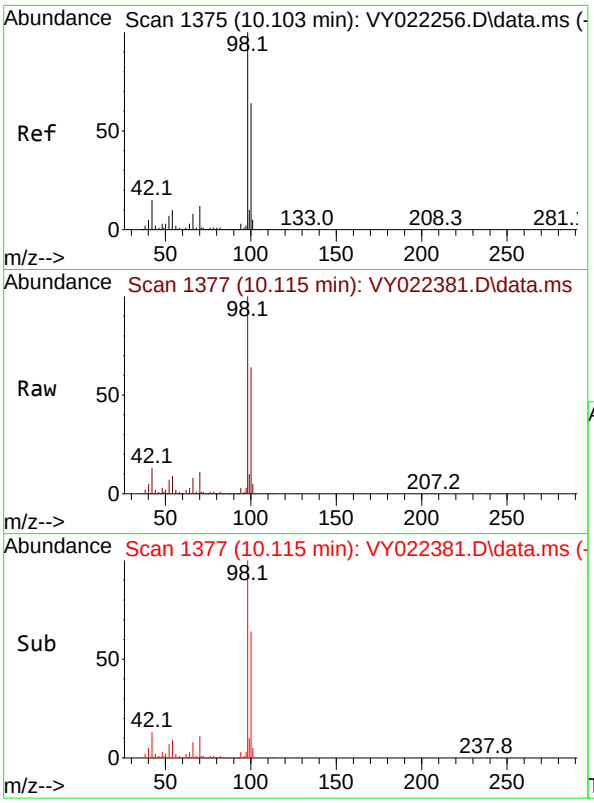


#35
Dibromofluoromethane
Concen: 49.800 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion:113 Resp: 138461

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	123.8
192	18.2	15.2	22.8



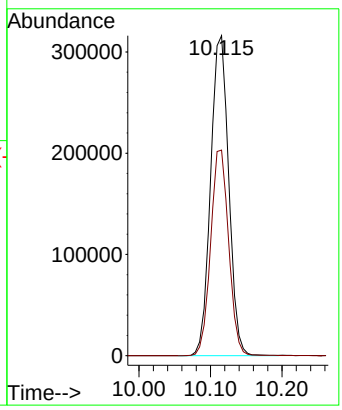


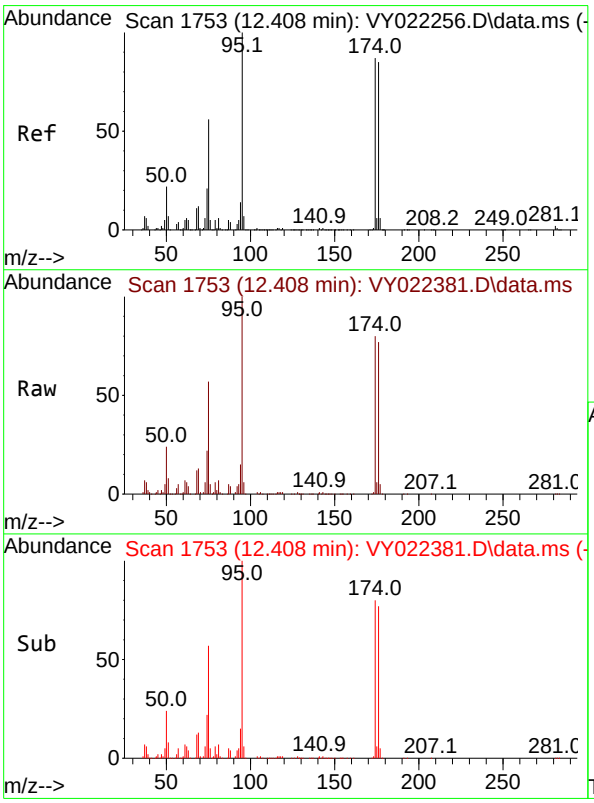
#50
Toluene-d8
Concen: 48.674 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Tgt Ion: 98 Resp: 554254

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.8	77.8

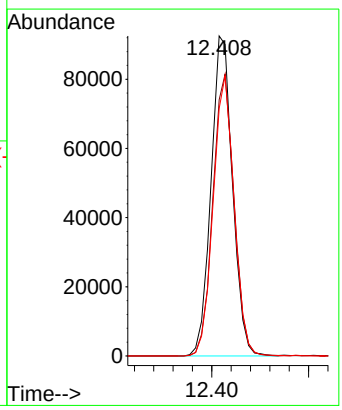


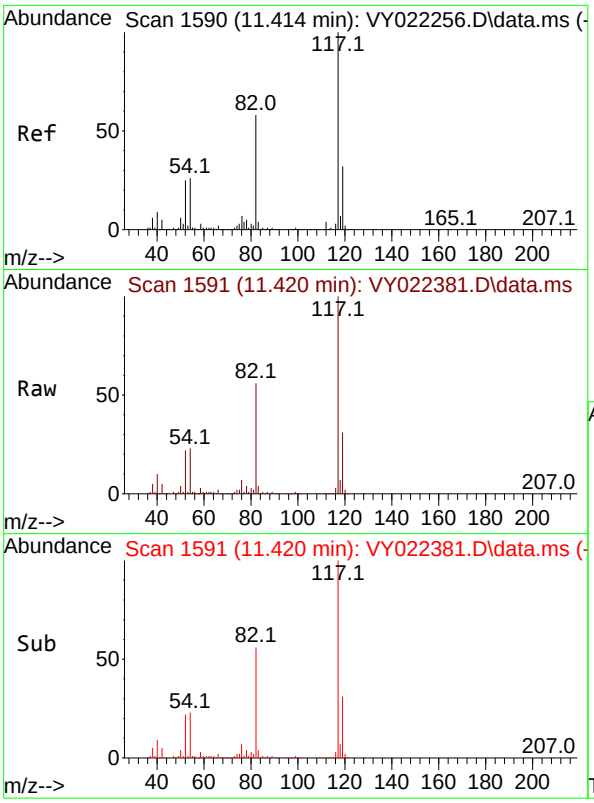


#62
4-Bromofluorobenzene
Concen: 39.525 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion: 95 Resp: 142658

Ion	Ratio	Lower	Upper
95	100		
174	86.8	0.0	166.8
176	85.2	0.0	160.8



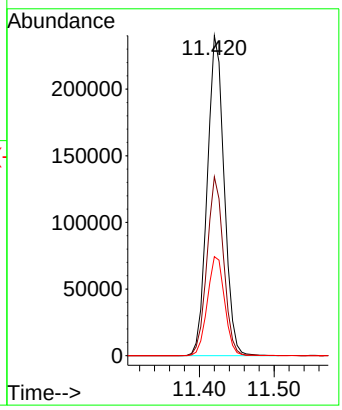


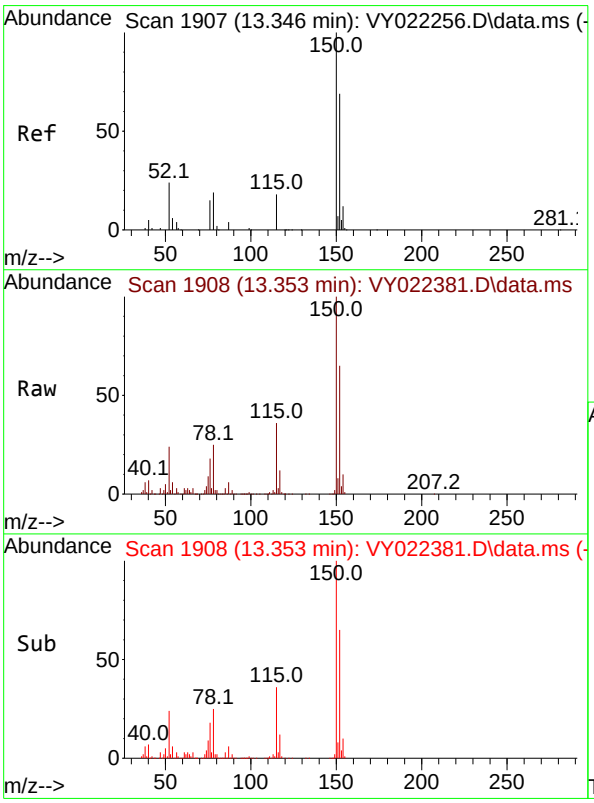
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Tgt Ion:117 Resp: 376365

Ion	Ratio	Lower	Upper
117	100		
82	55.9	46.6	70.0
119	31.0	25.8	38.6

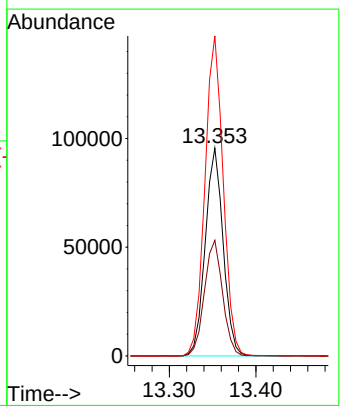




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion:152 Resp: 137350

Ion	Ratio	Lower	Upper
152	100		
115	56.5	29.4	88.2
150	157.1	0.0	353.8



Sample Results: **VY022381.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

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_Y\methods\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022381.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	46	59	60	rBV5	13183	26197	1.74%	0.361%
2	4.622	466	476	486	rBV2	8616	26540	1.77%	0.366%
3	7.646	962	972	977	rBV	197533	474258	31.57%	6.539%
4	7.719	977	984	994	rVB	343189	786755	52.38%	10.848%
5	8.073	1031	1042	1053	rBV	190297	421547	28.07%	5.812%
6	8.622	1124	1132	1145	rVB	558969	1092880	72.76%	15.069%
7	10.115	1369	1377	1385	rBV	848017	1502036	100.00%	20.711%
8	11.420	1583	1591	1604	rBV	769811	1222504	81.39%	16.856%
9	12.414	1747	1754	1763	rBV	507460	807002	53.73%	11.127%
10	13.353	1902	1908	1916	rVB	597669	892776	59.44%	12.310%

Sum of corrected areas: 7252495

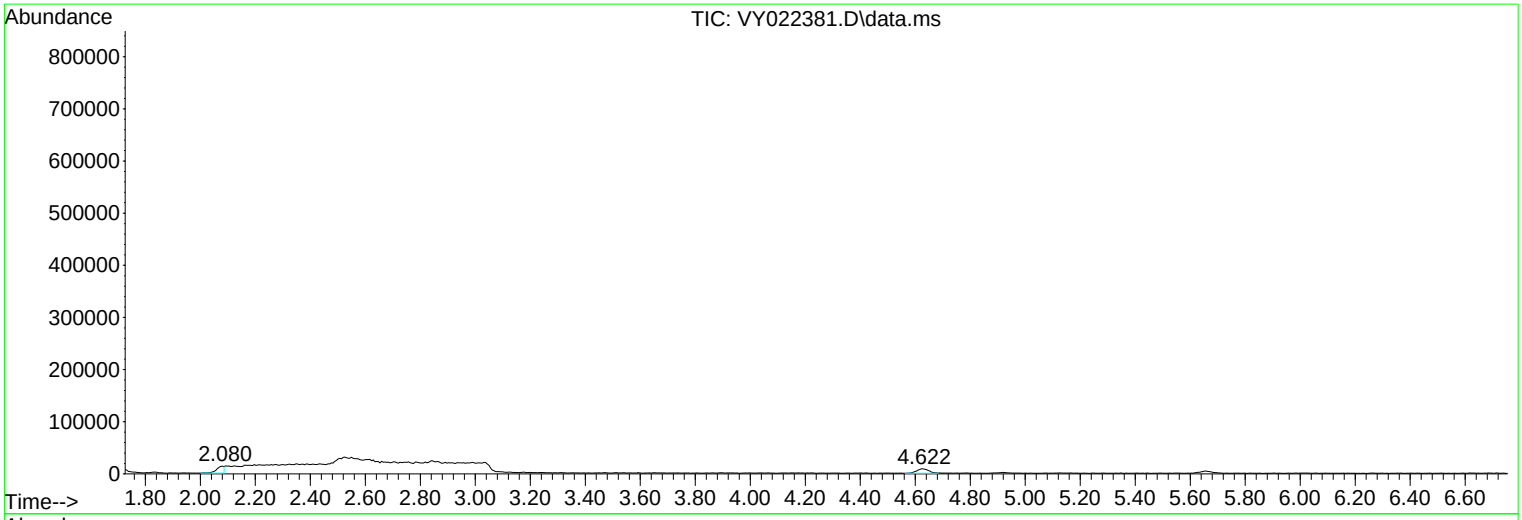
Sample Results: **VY022381.D**

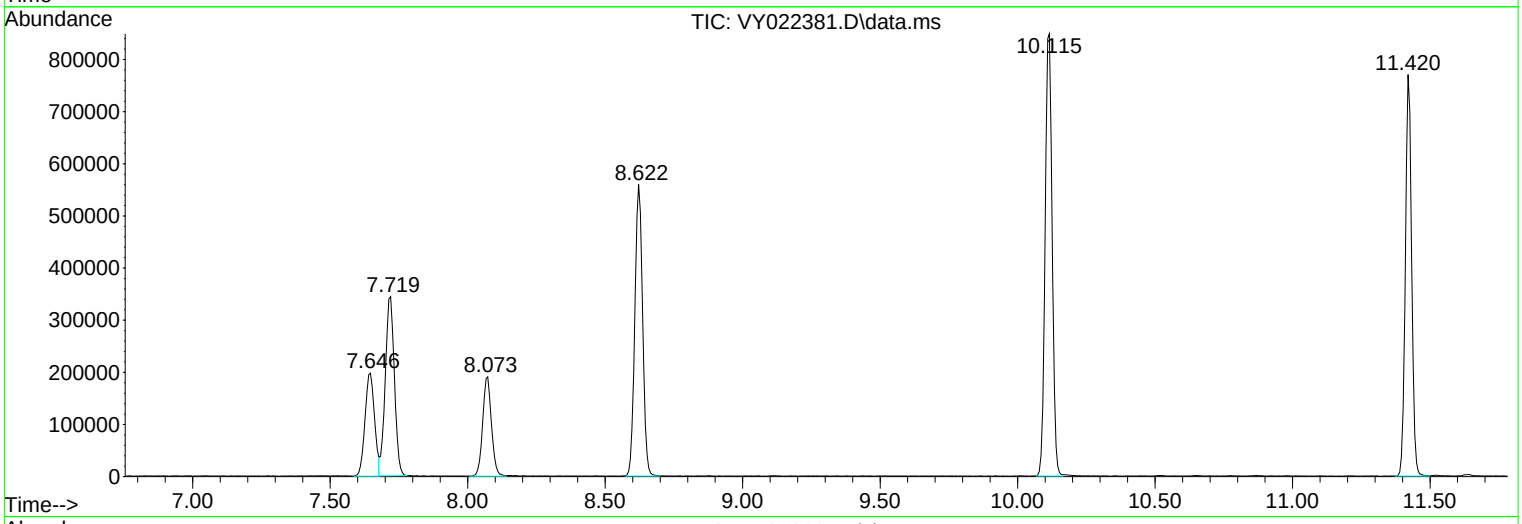
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

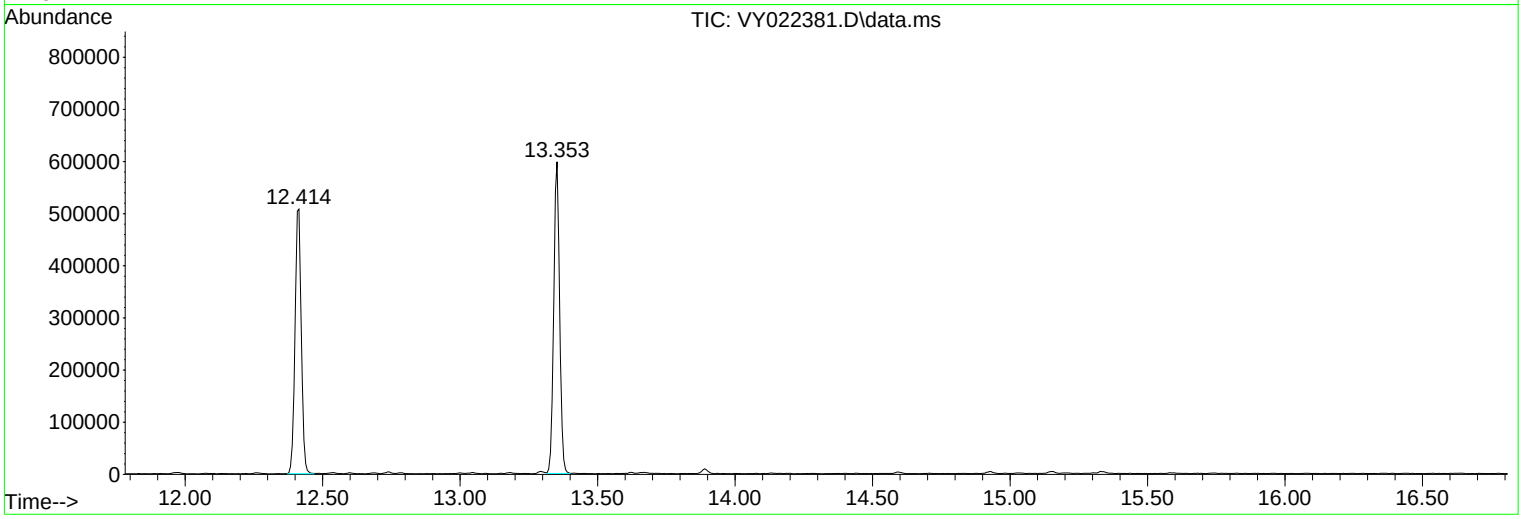
Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022381.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Time: May 23 23:20:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	328707	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	590839	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	465211	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	167300	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	201654	56.133	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.260%			
35) Dibromofluoromethane	7.640	113	200071	56.734	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 113.460%			
50) Toluene-d8	10.109	98	790680	54.745	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 109.500%			
62) 4-Bromofluorobenzene	12.407	95	201473	44.010	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 88.020%			

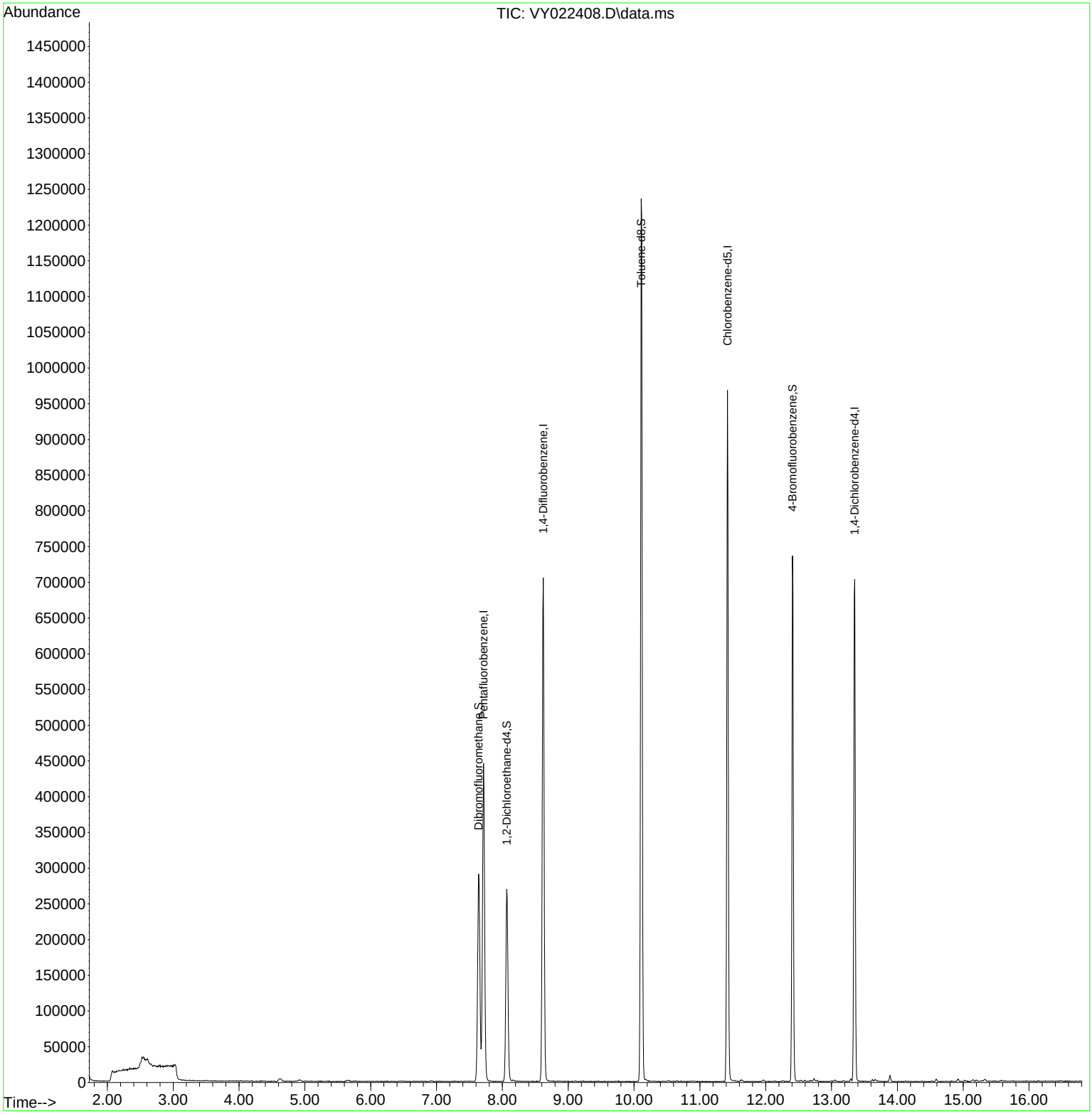
Target Compounds Qvalue

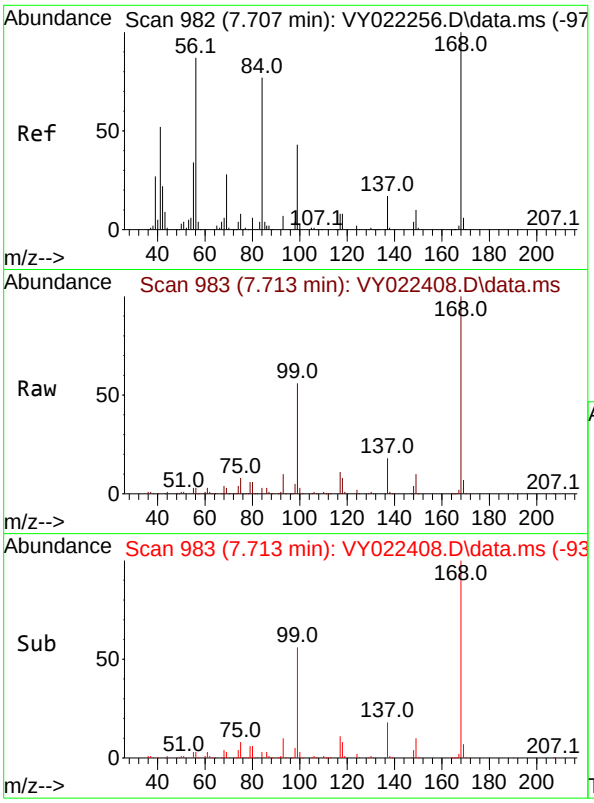
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Time: May 23 23:20:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



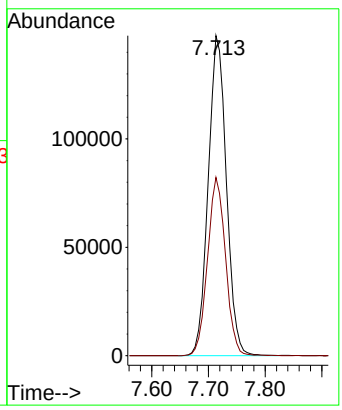


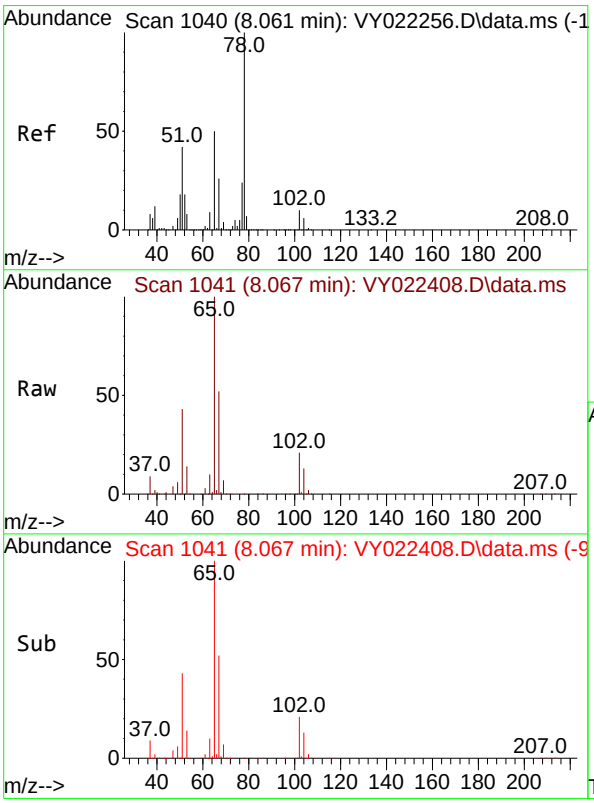
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion:168 Resp: 328707

Ion	Ratio	Lower	Upper
168	100		
99	55.7	44.2	66.4

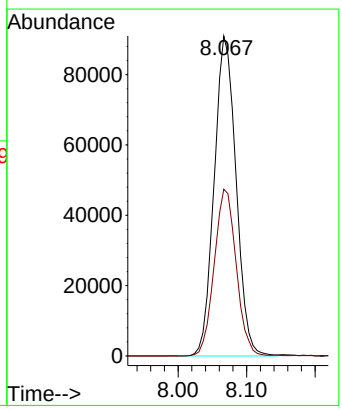


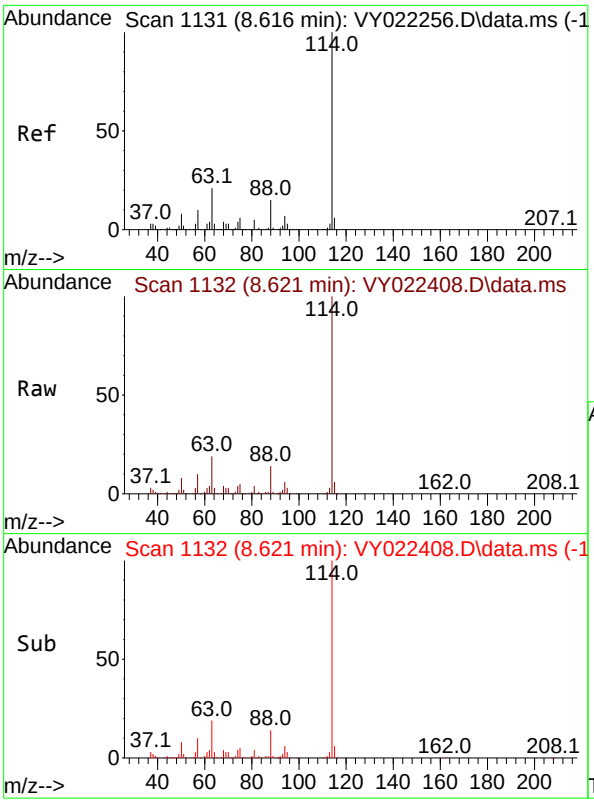


#33
1,2-Dichloroethane-d4
Concen: 56.133 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion: 65 Resp: 201654

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	104.6



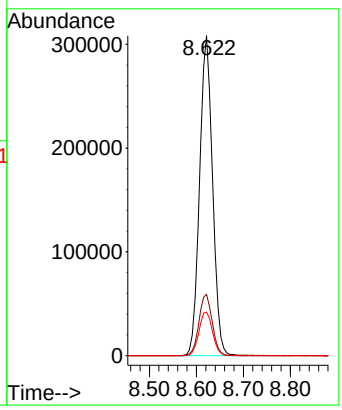


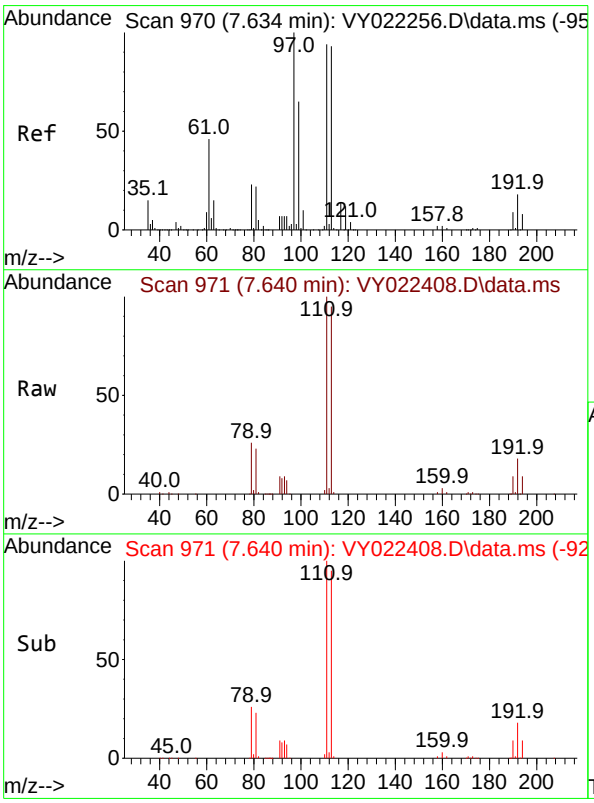
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion:114 Resp: 590839

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	41.0
88	13.6	0.0	29.4

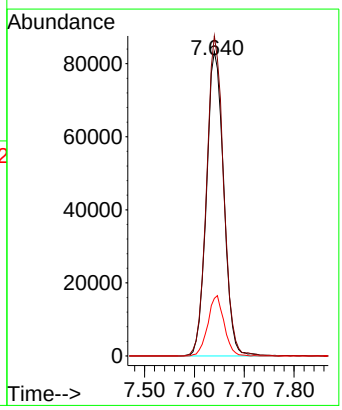


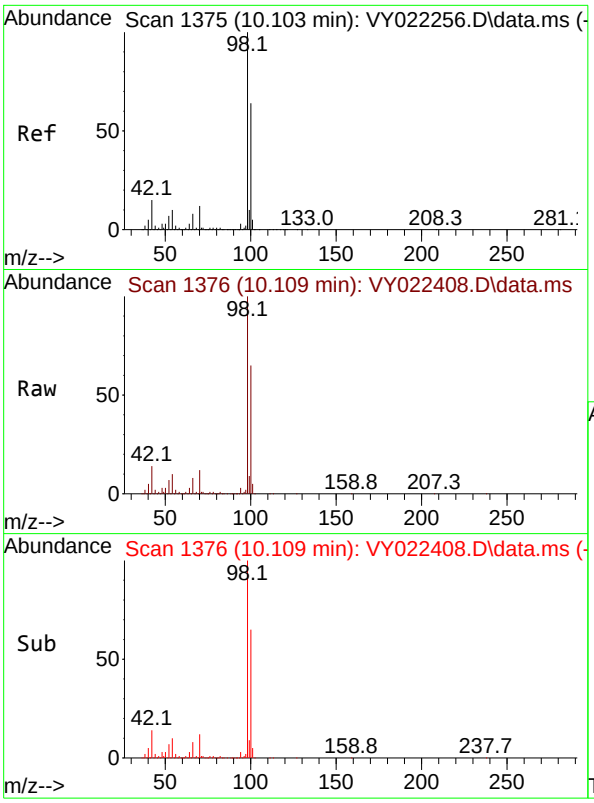


#35
Dibromofluoromethane
Concen: 56.734 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion:113 Resp: 200071

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.6	123.8
192	18.7	15.2	22.8



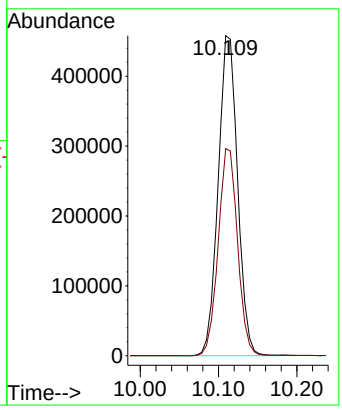


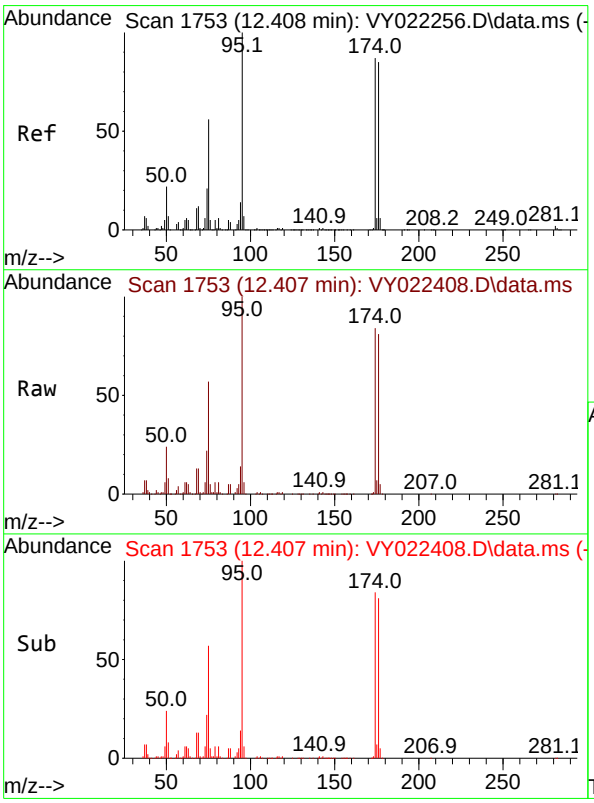
#50
Toluene-d8
Concen: 54.745 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion: 98 Resp: 790680

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.8	77.8

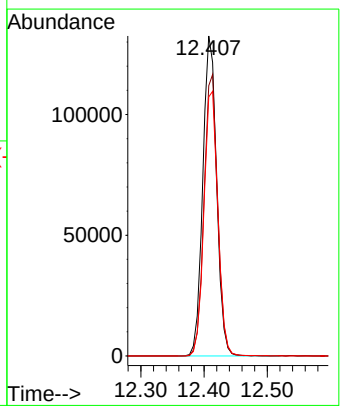


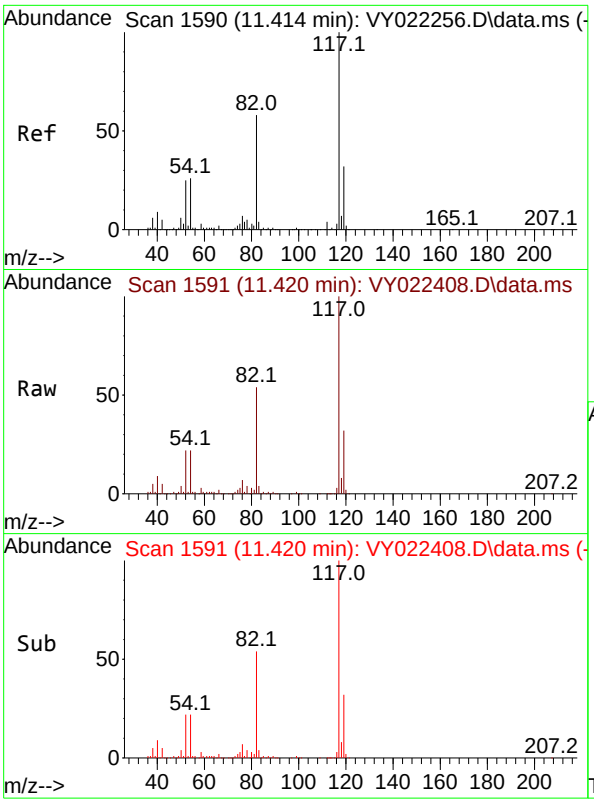


#62
4-Bromofluorobenzene
Concen: 44.010 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion: 95 Resp: 201473

Ion	Ratio	Lower	Upper
95	100		
174	87.0	0.0	166.8
176	84.0	0.0	160.8



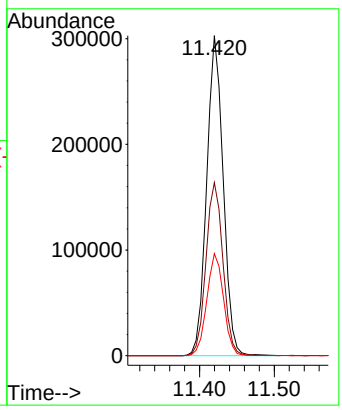


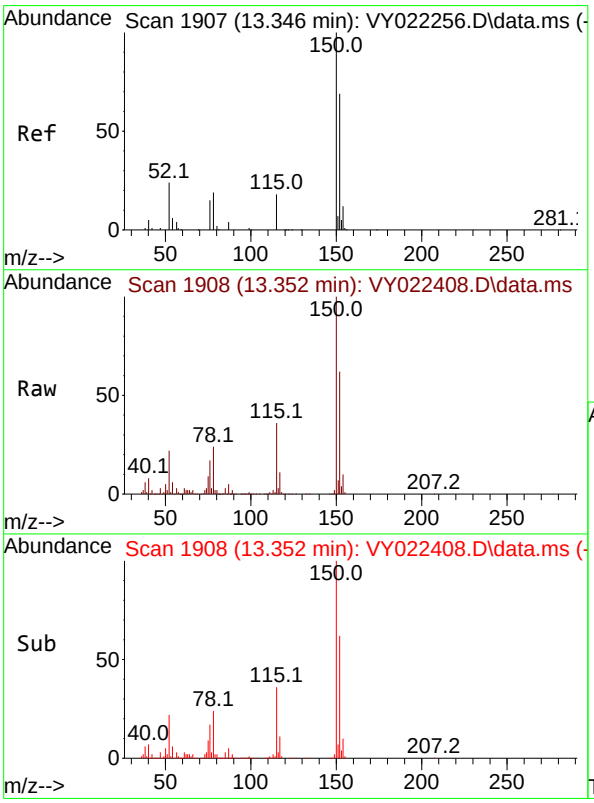
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion:117 Resp: 465211

Ion	Ratio	Lower	Upper
117	100		
82	54.1	46.6	70.0
119	31.9	25.8	38.6

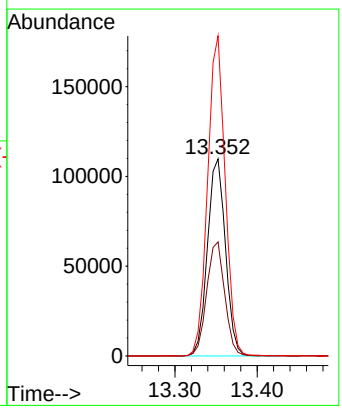




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion:152 Resp: 167300

Ion	Ratio	Lower	Upper
152	100		
115	58.0	29.4	88.2
150	158.2	0.0	353.8



Sample Results: **VY022408.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

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_Y\methods\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022408.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.074	51	58	61	rBV2	14359	33111	1.55%	0.346%
2	2.525	125	132	133	rBV5	13897	23431	1.10%	0.245%
3	7.640	960	971	977	rBV2	290275	689257	32.25%	7.196%
4	7.713	977	983	998	rVB	445005	992781	46.45%	10.365%
5	8.067	1033	1041	1053	rBV	268758	596109	27.89%	6.224%
6	8.622	1122	1132	1144	rBV	704664	1377475	64.45%	14.382%
7	10.109	1368	1376	1385	rBV	1235295	2137374	100.00%	22.315%
8	11.420	1583	1591	1604	rBV	967755	1515565	70.91%	15.823%
9	12.407	1746	1753	1762	rBV	735653	1125815	52.67%	11.754%
10	13.352	1901	1908	1918	rVB	702177	1087181	50.87%	11.351%

Sum of corrected areas: 9578099

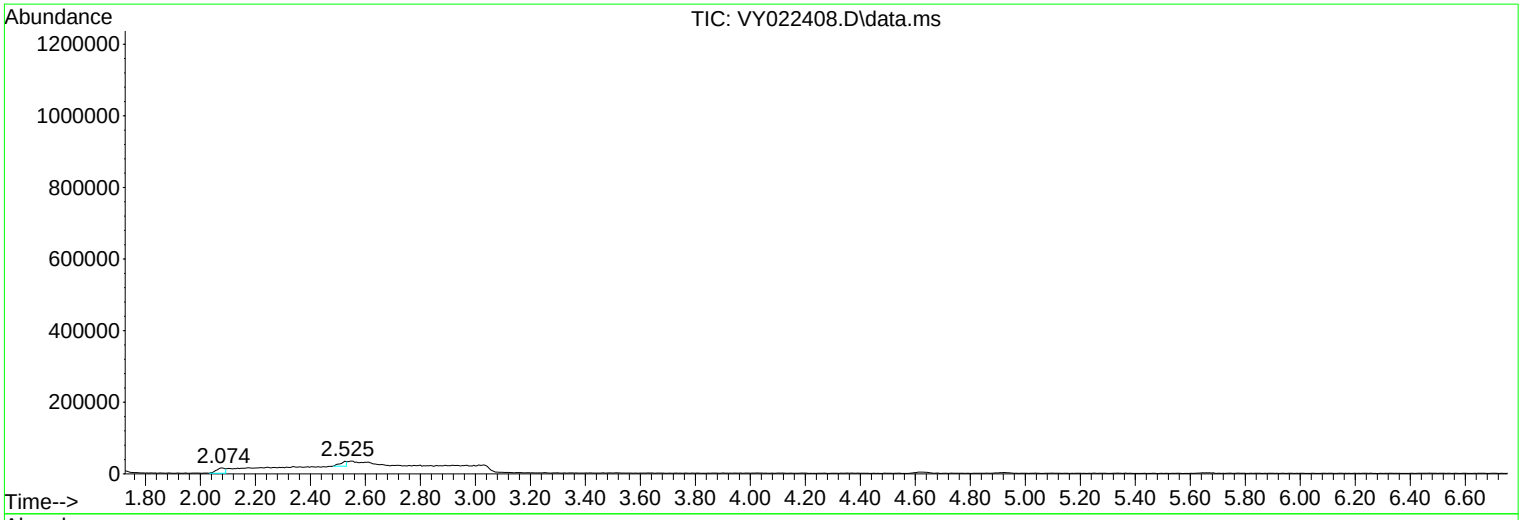
Sample Results: **VY022408.D**

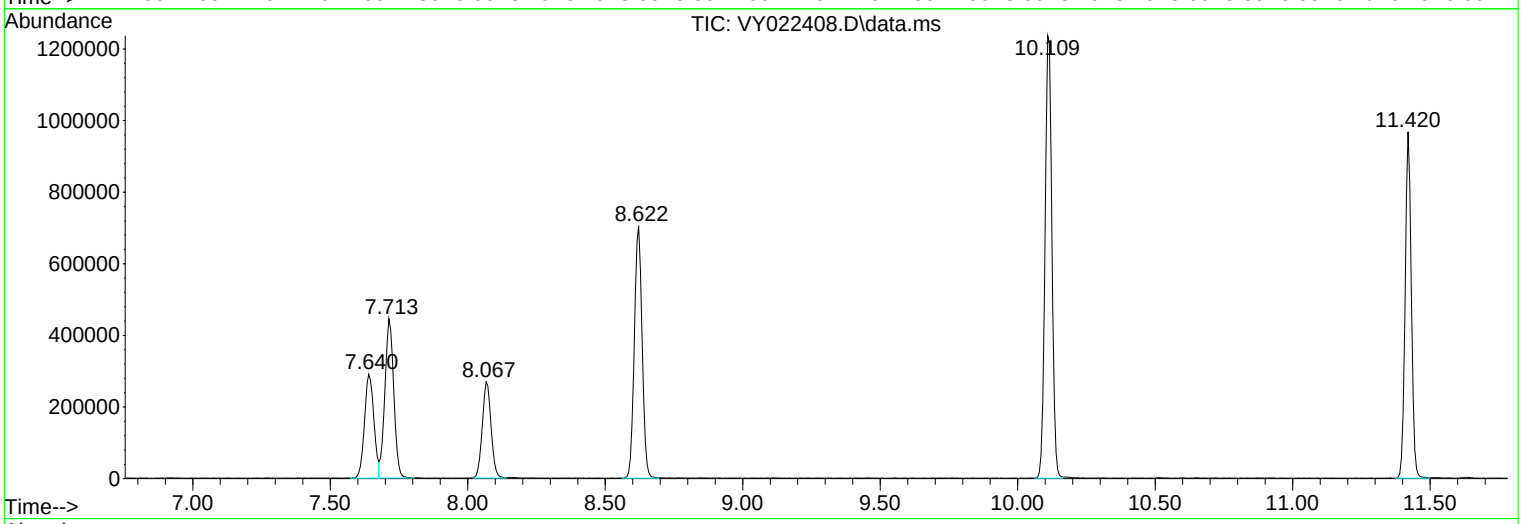
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

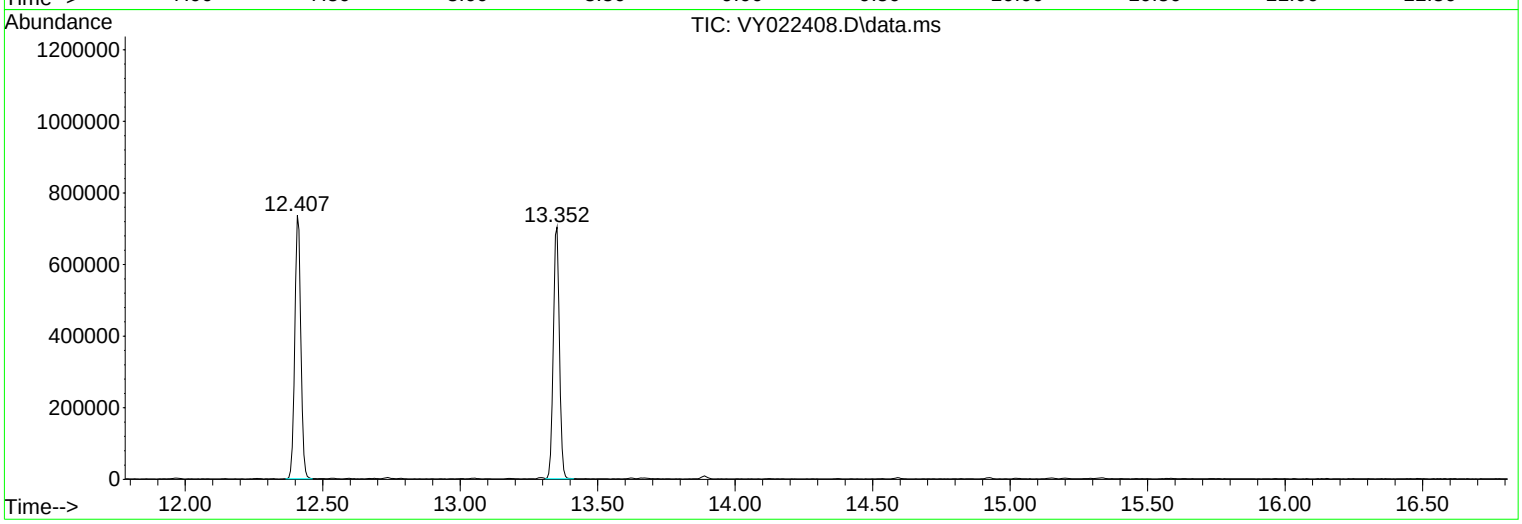
Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	174604	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	293942	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	250842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	118480	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	92313	48.376	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.760%			
35) Dibromofluoromethane	7.646	113	88232	50.291	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.580%			
50) Toluene-d8	10.115	98	361670	50.334	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.660%			
62) 4-Bromofluorobenzene	12.414	95	108691	47.724	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	35700	19.595	ug/l	100
3) Chloromethane	2.074	50	89428	23.334	ug/l	96
4) Vinyl Chloride	2.208	62	106584	24.892	ug/l	98
5) Bromomethane	2.598	94	120242	34.496	ug/l	100
6) Chloroethane	2.739	64	75963	28.516	ug/l	99
7) Trichlorofluoromethane	3.056	101	101302	23.367	ug/l	96
8) Diethyl Ether	3.464	74	20744	19.939	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.824	101	39378	20.923	ug/l	99
10) Methyl Iodide	4.013	142	39404	18.090	ug/l	98
11) Tert butyl alcohol	4.891	59	13893	95.339	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	38242	20.476	ug/l	94
13) Acrolein	3.665	56	11668	54.771	ug/l	97
14) Allyl chloride	4.397	41	57800	17.650	ug/l	93
15) Acrylonitrile	5.067	53	41413	96.604	ug/l	99
16) Acetone	3.885	43	37784	105.597	ug/l	96
17) Carbon Disulfide	4.116	76	117567	19.304	ug/l	99
18) Methyl Acetate	4.403	43	18733	16.605	ug/l #	89
19) Methyl tert-butyl Ether	5.128	73	100940	19.601	ug/l	98
20) Methylene Chloride	4.629	84	43819	18.952	ug/l	90
21) trans-1,2-Dichloroethene	5.122	96	40647	19.717	ug/l	95
22) Diisopropyl ether	6.031	45	124864	18.055	ug/l	98
23) Vinyl Acetate	5.970	43	370765	88.742	ug/l	96
24) 1,1-Dichloroethane	5.927	63	75035	19.421	ug/l	99
25) 2-Butanone	6.909	43	57111	95.421	ug/l	95
26) 2,2-Dichloropropane	6.890	77	69084	20.103	ug/l	100
27) cis-1,2-Dichloroethene	6.902	96	47248	19.861	ug/l	97
28) Bromochloromethane	7.256	49	30609	18.573	ug/l	96
29) Tetrahydrofuran	7.280	42	35533	92.280	ug/l	94
30) Chloroform	7.433	83	74530	20.111	ug/l	99
31) Cyclohexane	7.713	56	72006	18.653	ug/l	95
32) 1,1,1-Trichloroethane	7.628	97	66206	19.472	ug/l	99
36) 1,1-Dichloropropene	7.847	75	56933	19.702	ug/l	99
37) Ethyl Acetate	6.994	43	26743	19.234	ug/l	97
38) Carbon Tetrachloride	7.829	117	59138	19.771	ug/l	97
39) Methylcyclohexane	9.116	83	74349	19.151	ug/l	97
40) Benzene	8.091	78	167114	19.508	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.232	41	14142	15.333 ug/l #	82
42) 1,2-Dichloroethane	8.171	62	44204	19.081 ug/l	98
43) Isopropyl Acetate	8.207	43	52844	17.427 ug/l	98
44) Trichloroethene	8.872	130	42833	20.109 ug/l	96
45) 1,2-Dichloropropane	9.152	63	39408	19.081 ug/l	97
46) Dibromomethane	9.237	93	22173	19.905 ug/l	97
47) Bromodichloromethane	9.433	83	55825	19.317 ug/l	98
48) Methyl methacrylate	9.231	41	24395	17.203 ug/l	94
49) 1,4-Dioxane	9.250	88	5019	398.826 ug/l	89
51) 4-Methyl-2-Pentanone	10.006	43	132300	88.920 ug/l	96
52) Toluene	10.176	92	105474	19.443 ug/l	98
53) t-1,3-Dichloropropene	10.402	75	52289	18.540 ug/l	100
54) cis-1,3-Dichloropropene	9.865	75	60767	18.806 ug/l	95
55) 1,1,2-Trichloroethane	10.579	97	27910	19.566 ug/l	99
56) Ethyl methacrylate	10.445	69	41592	18.718 ug/l	95
57) 1,3-Dichloropropane	10.725	76	50921	20.091 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.719	63	80535	80.750 ug/l	97
59) 2-Hexanone	10.768	43	89261	89.478 ug/l	95
60) Dibromochloromethane	10.920	129	36931	19.947 ug/l	100
61) 1,2-Dibromoethane	11.024	107	26053	19.596 ug/l	99
64) Tetrachloroethene	10.652	164	46204	19.928 ug/l	96
65) Chlorobenzene	11.450	112	111687	19.735 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.524	131	36492	18.757 ug/l	98
67) Ethyl Benzene	11.524	91	198411	18.720 ug/l	99
68) m/p-Xylenes	11.633	106	151710	37.987 ug/l	97
69) o-Xylene	11.963	106	71140	18.827 ug/l	100
70) Styrene	11.975	104	121069	18.995 ug/l	97
71) Bromoform	12.139	173	20171	19.208 ug/l #	99
73) Isopropylbenzene	12.261	105	189456	19.302 ug/l	100
74) N-amyl acetate	12.078	43	47777	17.019 ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.511	83	29957	19.845 ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	22658m	18.877 ug/l	
77) Bromobenzene	12.536	156	39583	18.881 ug/l	98
78) n-propylbenzene	12.603	91	229385	19.375 ug/l	100
79) 2-Chlorotoluene	12.682	91	120979	18.594 ug/l	98
80) 1,3,5-Trimethylbenzene	12.743	105	149426	18.859 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.310	75	10636	17.950 ug/l	97
82) 4-Chlorotoluene	12.780	91	123043	18.386 ug/l	99
83) tert-Butylbenzene	12.999	119	134904	19.156 ug/l	97
84) 1,2,4-Trimethylbenzene	13.048	105	147645	18.771 ug/l	99
85) sec-Butylbenzene	13.182	105	202478	19.368 ug/l	100
86) p-Isopropyltoluene	13.298	119	166855	18.977 ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	80701	18.857 ug/l	98
88) 1,4-Dichlorobenzene	13.371	146	78194	18.995 ug/l	99
89) n-Butylbenzene	13.621	91	160206	19.260 ug/l	100
90) Hexachloroethane	13.883	117	33947	19.127 ug/l	98
91) 1,2-Dichlorobenzene	13.663	146	68652	19.098 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4780	19.637 ug/l	99
93) 1,2,4-Trichlorobenzene	14.925	180	40453	19.482 ug/l	99
94) Hexachlorobutadiene	15.029	225	21731	18.766 ug/l	98
95) Naphthalene	15.151	128	76320	19.368 ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	33805	19.191 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

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

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

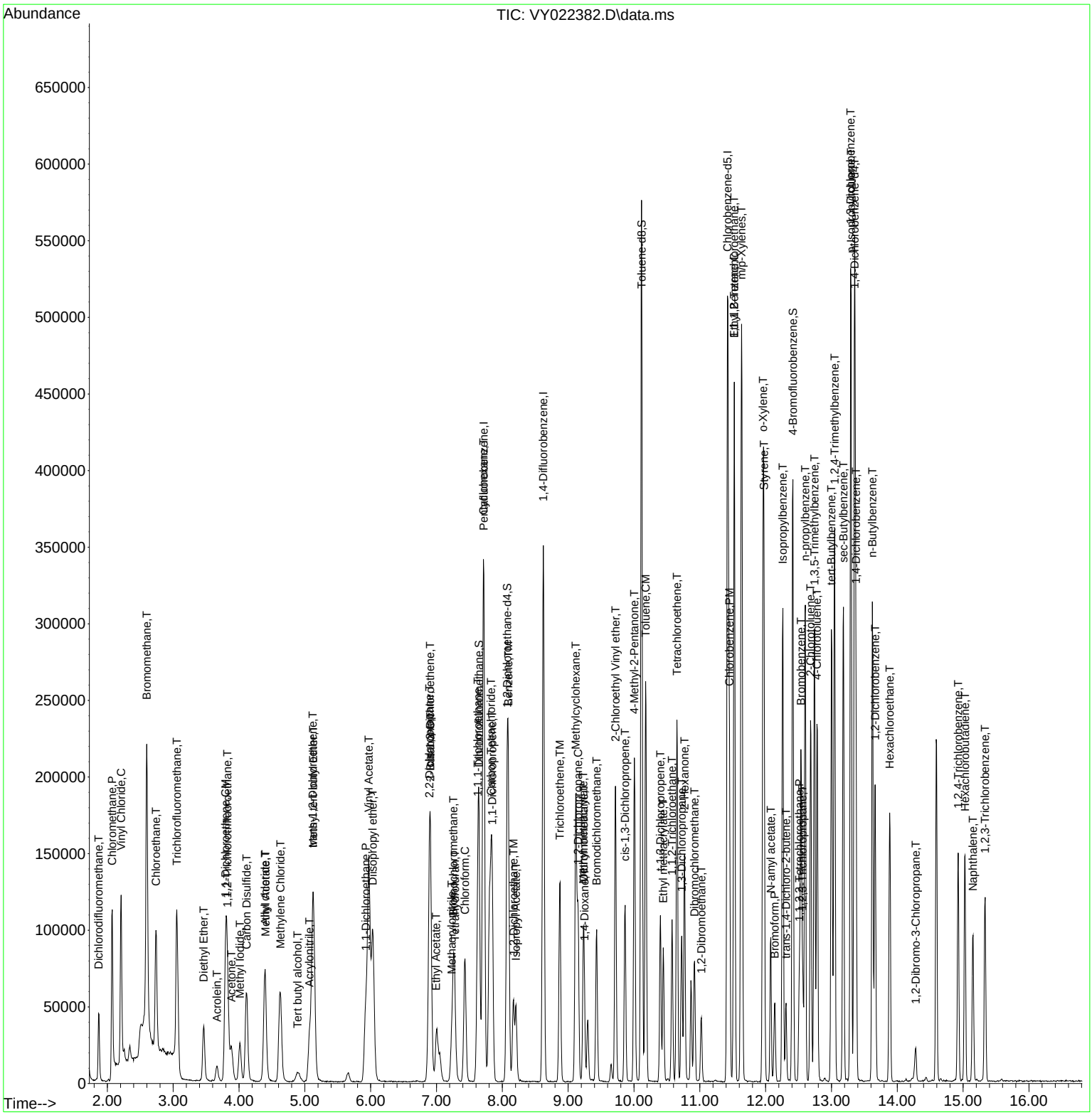
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	220484	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	365163	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	306453	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	141917	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	122214	50.718	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.440%			
35) Dibromofluoromethane	7.646	113	116726	53.556	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.120%			
50) Toluene-d8	10.115	98	477724	53.519	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 107.040%			
62) 4-Bromofluorobenzene	12.407	95	137951	48.757	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	47450	20.625	ug/l	98
3) Chloromethane	2.068	50	116162	24.002	ug/l	97
4) Vinyl Chloride	2.208	62	136097	25.171	ug/l	96
5) Bromomethane	2.598	94	152048	34.544	ug/l	99
6) Chloroethane	2.738	64	91246	27.126	ug/l	98
7) Trichlorofluoromethane	3.055	101	125355	22.899	ug/l	98
8) Diethyl Ether	3.458	74	26297	20.016	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.817	101	54194	22.803	ug/l	98
10) Methyl Iodide	4.006	142	50705	18.434	ug/l	99
11) Tert butyl alcohol	4.884	59	18052	98.102	ug/l #	100
12) 1,1-Dichloroethene	3.799	96	52119	22.099	ug/l	91
13) Acrolein	3.659	56	14247	52.961	ug/l	97
14) Allyl chloride	4.391	41	72531	17.539	ug/l	92
15) Acrylonitrile	5.073	53	53818	99.417	ug/l	99
16) Acetone	3.885	43	64882	143.598	ug/l	96
17) Carbon Disulfide	4.116	76	153044	19.900	ug/l	96
18) Methyl Acetate	4.403	43	22419	15.737	ug/l	93
19) Methyl tert-butyl Ether	5.128	73	130694	20.098	ug/l	95
20) Methylene Chloride	4.622	84	57155	19.576	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	52976	20.350	ug/l	96
22) Diisopropyl ether	6.024	45	157311	18.014	ug/l	95
23) Vinyl Acetate	5.969	43	490218	92.917	ug/l	98
24) 1,1-Dichloroethane	5.921	63	97335	19.950	ug/l	99
25) 2-Butanone	6.902	43	83136	110.000	ug/l	99
26) 2,2-Dichloropropane	6.896	77	89975	20.734	ug/l	99
27) cis-1,2-Dichloroethene	6.902	96	61445	20.454	ug/l	97
28) Bromochloromethane	7.250	49	41072	19.736	ug/l	96
29) Tetrahydrofuran	7.268	42	46580	95.797	ug/l	93
30) Chloroform	7.427	83	95738	20.458	ug/l	98
31) Cyclohexane	7.713	56	98151	20.135	ug/l	97
32) 1,1,1-Trichloroethane	7.628	97	89072	20.746	ug/l	99
36) 1,1-Dichloropropene	7.847	75	74413	20.729	ug/l	98
37) Ethyl Acetate	6.994	43	32944	19.073	ug/l	96
38) Carbon Tetrachloride	7.829	117	77588	20.880	ug/l	95
39) Methylcyclohexane	9.115	83	102984	21.353	ug/l	96
40) Benzene	8.091	78	215939	20.291	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.231	41	20095m	17.538	ug/l		
42) 1,2-Dichloroethane	8.164	62	56548	19.649	ug/l		97
43) Isopropyl Acetate	8.207	43	70370	18.681	ug/l		98
44) Trichloroethene	8.871	130	55056	20.806	ug/l		96
45) 1,2-Dichloropropane	9.146	63	51291	19.991	ug/l		97
46) Dibromomethane	9.237	93	28589	20.659	ug/l		99
47) Bromodichloromethane	9.426	83	71724	19.978	ug/l		100
48) Methyl methacrylate	9.231	41	30712	17.434	ug/l		88
49) 1,4-Dioxane	9.237	88	6085	389.226	ug/l		93
51) 4-Methyl-2-Pentanone	10.005	43	171509	92.790	ug/l		96
52) Toluene	10.176	92	136262	20.220	ug/l		100
53) t-1,3-Dichloropropene	10.402	75	68682	19.603	ug/l		99
54) cis-1,3-Dichloropropene	9.865	75	79085	19.702	ug/l		94
55) 1,1,2-Trichloroethane	10.578	97	35739	20.168	ug/l		96
56) Ethyl methacrylate	10.444	69	54901	19.889	ug/l		92
57) 1,3-Dichloropropane	10.725	76	64791	20.578	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.719	63	106348	85.834	ug/l		97
59) 2-Hexanone	10.767	43	127089	102.550	ug/l		96
60) Dibromochloromethane	10.920	129	46918	20.398	ug/l		99
61) 1,2-Dibromoethane	11.023	107	34146	20.674	ug/l		99
64) Tetrachloroethene	10.652	164	59668	21.065	ug/l		99
65) Chlorobenzene	11.450	112	142059	20.547	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	47723	20.078	ug/l		99
67) Ethyl Benzene	11.523	91	262665	20.286	ug/l		99
68) m/p-Xylenes	11.633	106	197872	40.555	ug/l		96
69) o-Xylene	11.956	106	91898	19.908	ug/l		98
70) Styrene	11.975	104	153910	19.765	ug/l		97
71) Bromoform	12.139	173	25596	19.951	ug/l	#	97
73) Isopropylbenzene	12.261	105	247301	21.034	ug/l		100
74) N-amyl acetate	12.072	43	61277	18.223	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.511	83	37759	20.883	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	29327m	20.398	ug/l		
77) Bromobenzene	12.535	156	52367	20.854	ug/l		95
78) n-propylbenzene	12.602	91	296181	20.885	ug/l		99
79) 2-Chlorotoluene	12.682	91	155703	19.979	ug/l		97
80) 1,3,5-Trimethylbenzene	12.743	105	191546	20.182	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.310	75	13059	18.400	ug/l		98
82) 4-Chlorotoluene	12.785	91	157322	19.626	ug/l		97
83) tert-Butylbenzene	13.005	119	175804	20.841	ug/l		98
84) 1,2,4-Trimethylbenzene	13.047	105	188374	19.994	ug/l		98
85) sec-Butylbenzene	13.182	105	266407	21.275	ug/l		100
86) p-Isopropyltoluene	13.297	119	213699	20.291	ug/l		98
87) 1,3-Dichlorobenzene	13.291	146	103478	20.186	ug/l		98
88) 1,4-Dichlorobenzene	13.371	146	100997	20.483	ug/l		99
89) n-Butylbenzene	13.621	91	210175	21.095	ug/l		98
90) Hexachloroethane	13.883	117	43322	20.378	ug/l		98
91) 1,2-Dichlorobenzene	13.663	146	88356	20.520	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5917	20.294	ug/l		96
93) 1,2,4-Trichlorobenzene	14.925	180	47978	19.290	ug/l		99
94) Hexachlorobutadiene	15.029	225	25900	18.673	ug/l		94
95) Naphthalene	15.151	128	86870	18.405	ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	40075	18.993	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

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

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

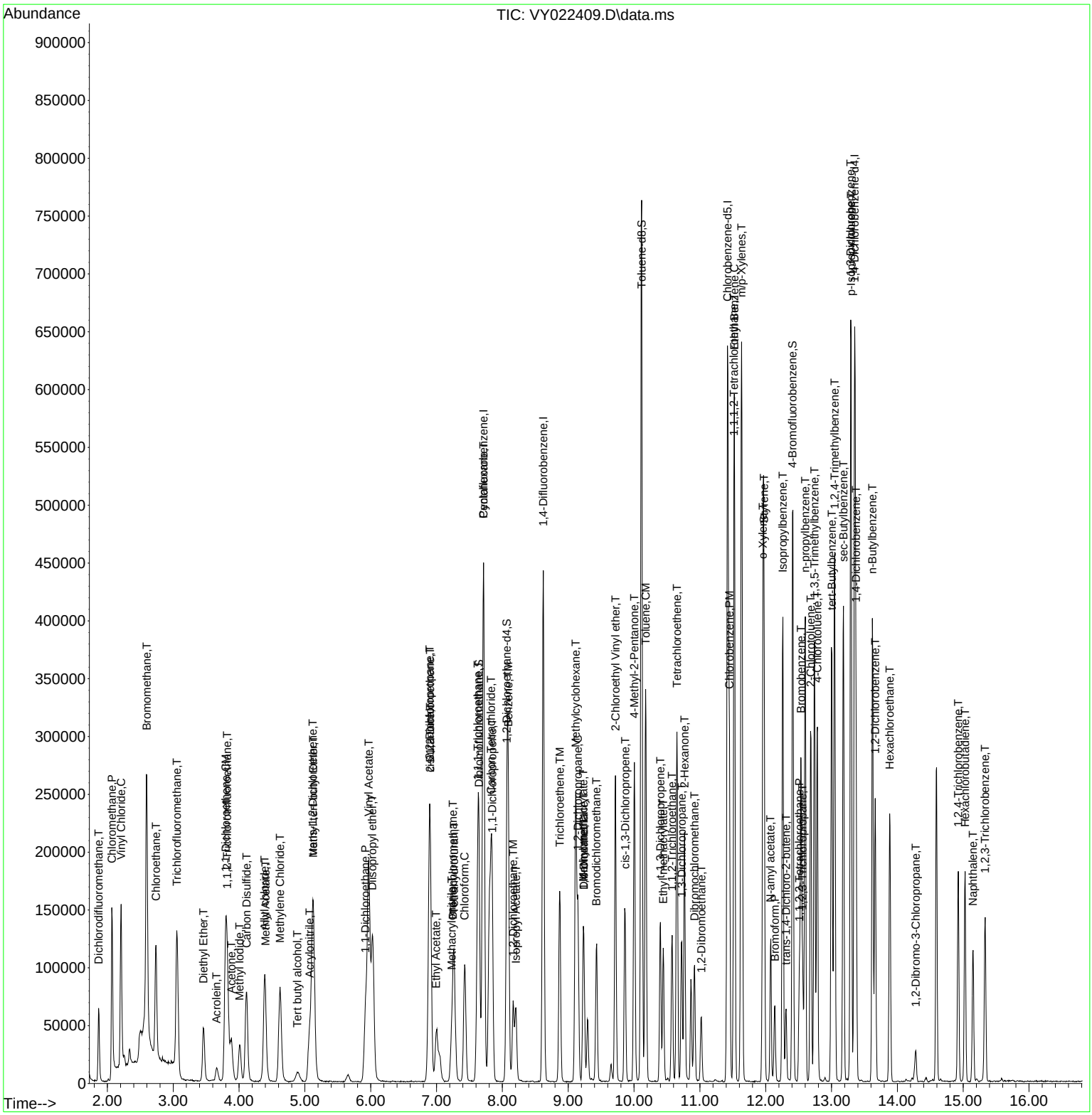
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022383.D
Acq On : 22 May 2025 09:59
Operator : SY/MD
Sample : VY0522SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 03:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	165702	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	283052	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	236945	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	112772	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	91305	50.418	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.840%			
35) Dibromofluoromethane	7.640	113	86124	50.978	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.960%			
50) Toluene-d8	10.115	98	344960	49.856	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.720%			
62) 4-Bromofluorobenzene	12.413	95	103227	47.068	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.866	85	34872	20.169	ug/l	98
3) Chloromethane	2.068	50	84322	23.184	ug/l	98
4) Vinyl Chloride	2.208	62	103245	25.408	ug/l	96
5) Bromomethane	2.598	94	110601	33.435	ug/l	100
6) Chloroethane	2.738	64	71548	28.302	ug/l	97
7) Trichlorofluoromethane	3.055	101	86964	21.138	ug/l	98
8) Diethyl Ether	3.464	74	20593	20.857	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.823	101	38058	21.308	ug/l	99
10) Methyl Iodide	4.006	142	40873	19.772	ug/l	99
11) Tert butyl alcohol	4.884	59	14857	107.432	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	36929	20.835	ug/l	85
13) Acrolein	3.659	56	11544	57.100	ug/l	90
14) Allyl chloride	4.384	41	56854	18.294	ug/l	94
15) Acrylonitrile	5.073	53	42184	103.689	ug/l	98
16) Acetone	3.884	43	31709	93.380	ug/l	94
17) Carbon Disulfide	4.116	76	114095	19.740	ug/l	99
18) Methyl Acetate	4.396	43	20711	19.345	ug/l	95
19) Methyl tert-butyl Ether	5.128	73	102955	21.066	ug/l	95
20) Methylene Chloride	4.622	84	41710	19.009	ug/l	92
21) trans-1,2-Dichloroethene	5.122	96	39375	20.126	ug/l	92
22) Diisopropyl ether	6.030	45	125231	19.081	ug/l	94
23) Vinyl Acetate	5.969	43	381544	96.228	ug/l	95
24) 1,1-Dichloroethane	5.927	63	74250	20.250	ug/l	99
25) 2-Butanone	6.908	43	55203	97.189	ug/l	100
26) 2,2-Dichloropropane	6.896	77	65151	19.977	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	46809	20.734	ug/l	96
28) Bromochloromethane	7.256	49	31798	20.331	ug/l	99
29) Tetrahydrofuran	7.268	42	37375	102.279	ug/l	92
30) Chloroform	7.432	83	72756	20.687	ug/l	99
31) Cyclohexane	7.713	56	69034	18.844	ug/l	96
32) 1,1,1-Trichloroethane	7.628	97	66078	20.479	ug/l	99
36) 1,1-Dichloropropene	7.847	75	54364	19.537	ug/l	98
37) Ethyl Acetate	6.994	43	27223	20.333	ug/l	97
38) Carbon Tetrachloride	7.823	117	56279	19.539	ug/l	97
39) Methylcyclohexane	9.115	83	73130	19.561	ug/l	93
40) Benzene	8.091	78	166008	20.124	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022383.D
Acq On : 22 May 2025 09:59
Operator : SY/MD
Sample : VY0522SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 03:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.231	41	13388	15.074	ug/l	#	75
42) 1,2-Dichloroethane	8.164	62	45353	20.330	ug/l		100
43) Isopropyl Acetate	8.207	43	55775	19.101	ug/l		98
44) Trichloroethene	8.871	130	41551	20.257	ug/l		98
45) 1,2-Dichloropropane	9.146	63	39131	19.675	ug/l		98
46) Dibromomethane	9.237	93	22317	20.805	ug/l		97
47) Bromodichloromethane	9.432	83	55379	19.900	ug/l		96
48) Methyl methacrylate	9.231	41	24767	18.137	ug/l		93
49) 1,4-Dioxane	9.237	88	5070	418.379	ug/l		93
51) 4-Methyl-2-Pentanone	10.005	43	139840	97.604	ug/l		97
52) Toluene	10.176	92	101209	19.375	ug/l		99
53) t-1,3-Dichloropropene	10.401	75	52641	19.383	ug/l		99
54) cis-1,3-Dichloropropene	9.865	75	61287	19.697	ug/l		96
55) 1,1,2-Trichloroethane	10.578	97	28589	20.813	ug/l		97
56) Ethyl methacrylate	10.444	69	42404	19.818	ug/l		94
57) 1,3-Dichloropropane	10.725	76	50499	20.692	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.719	63	83817	87.274	ug/l		97
59) 2-Hexanone	10.767	43	91893	95.660	ug/l		96
60) Dibromochloromethane	10.920	129	36293	20.356	ug/l		99
61) 1,2-Dibromoethane	11.017	107	25923	20.248	ug/l		100
64) Tetrachloroethene	10.651	164	45749	20.889	ug/l		97
65) Chlorobenzene	11.450	112	108867	20.365	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.523	131	36887	20.072	ug/l		99
67) Ethyl Benzene	11.523	91	196186	19.596	ug/l		99
68) m/p-Xylenes	11.633	106	149849	39.722	ug/l		96
69) o-Xylene	11.956	106	70807	19.838	ug/l		96
70) Styrene	11.974	104	119807	19.899	ug/l		97
71) Bromoform	12.133	173	20642	20.810	ug/l	#	97
73) Isopropylbenzene	12.261	105	184158	19.712	ug/l		100
74) N-amyl acetate	12.072	43	50559	18.922	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.511	83	30272	21.069	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	23203m	20.309	ug/l		
77) Bromobenzene	12.535	156	39924	20.008	ug/l		99
78) n-propylbenzene	12.602	91	222841	19.775	ug/l		100
79) 2-Chlorotoluene	12.682	91	120348	19.434	ug/l		98
80) 1,3,5-Trimethylbenzene	12.742	105	148179	19.648	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.310	75	11117	19.711	ug/l		95
82) 4-Chlorotoluene	12.779	91	122004	19.154	ug/l		96
83) tert-Butylbenzene	12.999	119	135145	20.161	ug/l		96
84) 1,2,4-Trimethylbenzene	13.047	105	146449	19.562	ug/l		98
85) sec-Butylbenzene	13.181	105	198914	19.991	ug/l		99
86) p-Isopropyltoluene	13.297	119	162649	19.435	ug/l		98
87) 1,3-Dichlorobenzene	13.291	146	80601	19.787	ug/l		98
88) 1,4-Dichlorobenzene	13.370	146	78462	20.025	ug/l		99
89) n-Butylbenzene	13.620	91	155438	19.633	ug/l		100
90) Hexachloroethane	13.883	117	33072	19.577	ug/l		96
91) 1,2-Dichlorobenzene	13.663	146	69239	20.236	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4955	21.386	ug/l		96
93) 1,2,4-Trichlorobenzene	14.925	180	39517	19.994	ug/l		97
94) Hexachlorobutadiene	15.029	225	20733	18.811	ug/l		99
95) Naphthalene	15.144	128	76999	20.530	ug/l		100
96) 1,2,3-Trichlorobenzene	15.333	180	34249	20.427	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022383.D
Acq On : 22 May 2025 09:59
Operator : SY/MD
Sample : VY0522SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 03:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

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

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

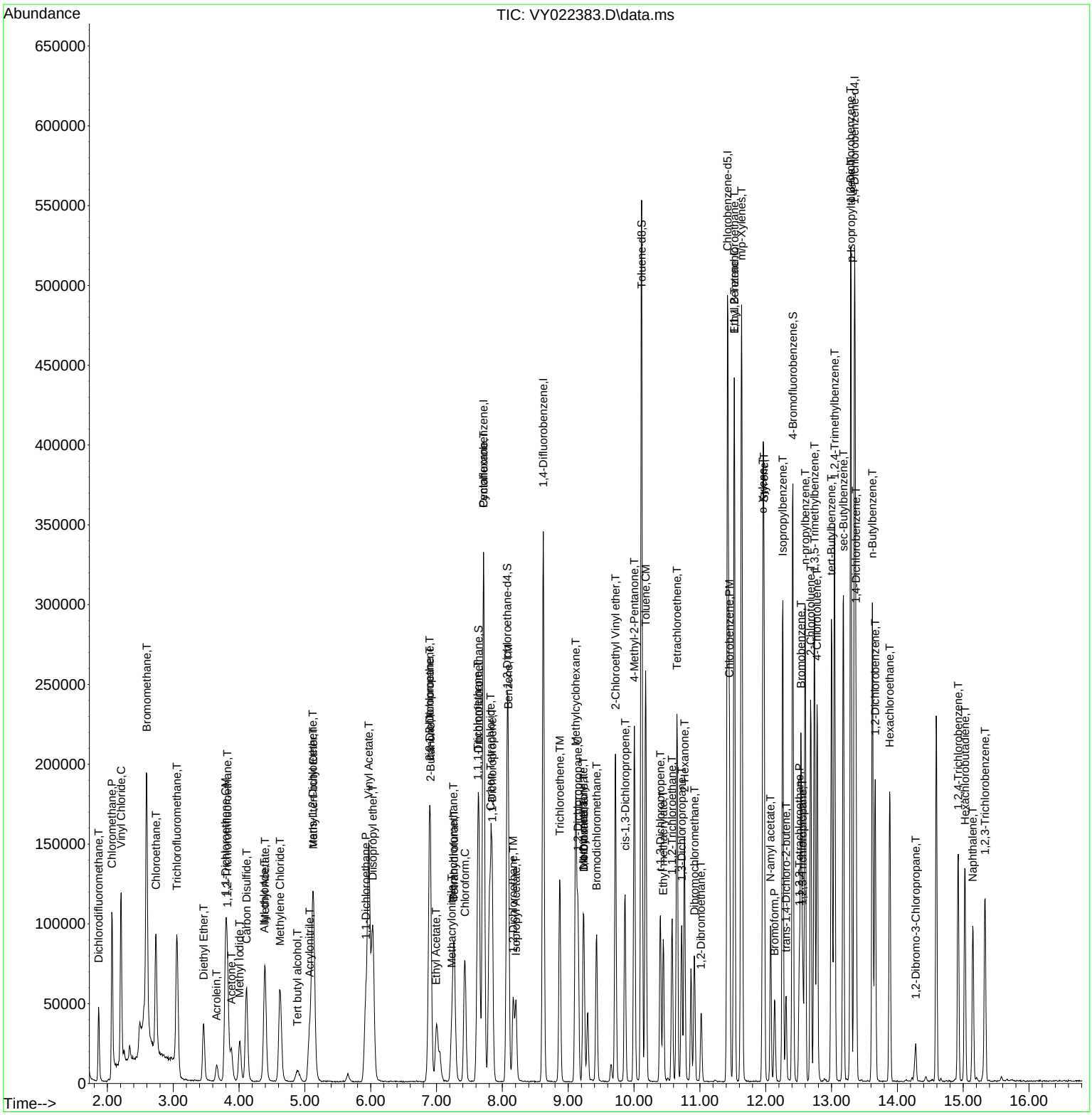
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022383.D
Acq On : 22 May 2025 09:59
Operator : SY/MD
Sample : VY0522SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 03:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025



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

Manual Integration Report

Sequence:	VY051525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022253.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC005	VY022253.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC005	VY022253.D	Methyl Acetate	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC010	VY022254.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDICC010	VY022254.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDICC020	VY022255.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDICC020	VY022255.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDICC100	VY022257.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDICC100	VY022257.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDICC150	VY022258.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software
VSTDICC150	VY022258.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY051525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VY022260.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VSTDICV050	VY022260.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vy052225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022380.D	1,2,3-Trichloropropane	JOHN	5/23/2025 11:04:46 AM	MMDadoda	5/23/2025 4:07:00 PM	Peak Integrated by Software
VY0522SBS01	VY022382.D	1,2,3-Trichloropropane	JOHN	5/23/2025 11:04:50 AM	MMDadoda	5/23/2025 4:07:01 PM	Peak Integrated by Software
VY0522SBSD01	VY022383.D	1,2,3-Trichloropropane	JOHN	5/23/2025 11:04:54 AM	MMDadoda	5/23/2025 4:07:02 PM	Peak Integrated by Software
VSTDCCC050	VY022405.D	1,2,3-Trichloropropane	JOHN	5/23/2025 11:04:59 AM	MMDadoda	5/23/2025 4:07:04 PM	Peak Integrated by Software
VSTDCCC050	VY022405.D	Methacrylonitrile	JOHN	5/23/2025 11:04:59 AM	MMDadoda	5/23/2025 4:07:04 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vy052325	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022407.D	1,2,3-Trichloropropane	MMdadoda	5/27/2025 4:51:06 AM	sam	5/27/2025 4:52:35 AM	Peak Integrated by Software
VSTDCCC050	VY022407.D	Methacrylonitrile	MMdadoda	5/27/2025 4:51:06 AM	sam	5/27/2025 4:52:35 AM	Peak Integrated by Software
VY0523SBS01	VY022409.D	1,2,3-Trichloropropane	MMdadoda	5/27/2025 4:51:08 AM	sam	5/27/2025 4:52:37 AM	Peak Integrated by Software
VY0523SBS01	VY022409.D	Methacrylonitrile	MMdadoda	5/27/2025 4:51:08 AM	sam	5/27/2025 4:52:37 AM	Peak Integrated by Software
VSTDCCC050	VY022419.D	1,2,3-Trichloropropane	MMdadoda	5/27/2025 4:51:20 AM	sam	5/27/2025 4:52:47 AM	Peak Integrated by Software
VSTDCCC050	VY022419.D	Methacrylonitrile	MMdadoda	5/27/2025 4:51:20 AM	sam	5/27/2025 4:52:47 AM	Peak Integrated by Software

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM				
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022252.D	15 May 2025 07:52	SY/MD	Ok
2	VSTDICC005	VY022253.D	15 May 2025 09:46	SY/MD	Ok,M
3	VSTDICC010	VY022254.D	15 May 2025 10:16	SY/MD	Ok,M
4	VSTDICC020	VY022255.D	15 May 2025 10:39	SY/MD	Ok,M
5	VSTDICCC050	VY022256.D	15 May 2025 11:02	SY/MD	Ok,M
6	VSTDICC100	VY022257.D	15 May 2025 11:24	SY/MD	Ok,M
7	VSTDICC150	VY022258.D	15 May 2025 11:47	SY/MD	Ok,M
8	VIBLK	VY022259.D	15 May 2025 12:34	SY/MD	Ok
9	VSTDICV050	VY022260.D	15 May 2025 13:20	SY/MD	Ok,M
10	VY0515SBL01	VY022261.D	15 May 2025 13:44	SY/MD	Ok
11	VY0515SBS01	VY022262.D	15 May 2025 14:07	SY/MD	Ok,M
12	VY0515SBSD01	VY022263.D	15 May 2025 14:29	SY/MD	Ok,M
13	Q1984-01	VY022264.D	15 May 2025 15:12	SY/MD	Ok
14	Q1984-03	VY022265.D	15 May 2025 15:35	SY/MD	Ok
15	Q1984-05	VY022266.D	15 May 2025 15:59	SY/MD	Ok
16	Q1984-07	VY022267.D	15 May 2025 16:22	SY/MD	ReRun
17	Q1984-09	VY022268.D	15 May 2025 16:46	SY/MD	Not Ok
18	Q1984-11	VY022269.D	15 May 2025 17:09	SY/MD	Not Ok
19	Q1984-13	VY022270.D	15 May 2025 17:33	SY/MD	Not Ok
20	Q1984-15	VY022271.D	15 May 2025 17:56	SY/MD	ReRun
21	Q1982-04	VY022272.D	15 May 2025 18:19	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM				
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1982-05	VY022273.D	15 May 2025 18:43	SY/MD	Ok
23	Q1982-06	VY022274.D	15 May 2025 19:06	SY/MD	Ok
24	VSTDCCC050	VY022275.D	15 May 2025 19:52	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

Review By	John Carlone	Review On	5/23/2025 11:05:57 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/23/2025 4:07:06 PM				
SubDirectory	VY052225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134001
Initial Calibration Stds	
CCC	VP134002,VP134003
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022379.D	22 May 2025 08:05	SY/MD	Ok
2	VSTDCCC050	VY022380.D	22 May 2025 08:35	SY/MD	Ok,M
3	VY0522SBL01	VY022381.D	22 May 2025 09:07	SY/MD	Ok
4	VY0522SBS01	VY022382.D	22 May 2025 09:36	SY/MD	Ok,M
5	VY0522SBSD01	VY022383.D	22 May 2025 09:59	SY/MD	Ok,M
6	Q2087-03RE	VY022384.D	22 May 2025 10:38	SY/MD	Confirms
7	Q2101-03	VY022385.D	22 May 2025 11:01	SY/MD	Ok
8	Q2097-11RE	VY022386.D	22 May 2025 11:25	SY/MD	Confirms
9	Q2102-01	VY022387.D	22 May 2025 11:48	SY/MD	Ok
10	Q2104-01RE	VY022388.D	22 May 2025 12:11	SY/MD	Confirms
11	Q2074-01	VY022389.D	22 May 2025 12:35	SY/MD	Ok
12	Q2074-02	VY022390.D	22 May 2025 12:58	SY/MD	Ok
13	Q2074-03	VY022391.D	22 May 2025 13:22	SY/MD	Ok
14	Q2074-04	VY022392.D	22 May 2025 13:45	SY/MD	Ok
15	Q2074-05	VY022393.D	22 May 2025 14:09	SY/MD	Ok
16	Q2074-06	VY022394.D	22 May 2025 14:32	SY/MD	Ok
17	Q2074-07	VY022395.D	22 May 2025 14:55	SY/MD	Ok
18	Q2074-08	VY022396.D	22 May 2025 15:19	SY/MD	Ok
19	Q2100-01	VY022397.D	22 May 2025 15:42	SY/MD	ReRun
20	Q2100-02	VY022398.D	22 May 2025 16:06	SY/MD	Ok
21	Q2100-03	VY022399.D	22 May 2025 16:29	SY/MD	Not Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

Review By	John Carlone	Review On	5/23/2025 11:05:57 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/23/2025 4:07:06 PM				
SubDirectory	VY052225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134001
Initial Calibration Stds	
CCC	VP134002,VP134003
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2100-04	VY022400.D	22 May 2025 16:53	SY/MD	Ok
23	Q2112-01	VY022401.D	22 May 2025 17:16	SY/MD	ReRun
24	Q2109-03	VY022402.D	22 May 2025 17:40	SY/MD	Ok
25	Q2075-06	VY022403.D	22 May 2025 18:03	SY/MD	Dilution
26	VIBLK	VY022404.D	22 May 2025 18:26	SY/MD	Ok
27	VSTDCCC050	VY022405.D	22 May 2025 18:49	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052325

Review By	Mahesh Dadoda	Review On	5/27/2025 4:51:38 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	5/27/2025 4:53:09 AM				
SubDirectory	VY052325	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y051525S.M		

STD. NAME	STD REF.#
Tune/Reschk	VP134014
Initial Calibration Stds	
CCC	VP134015,VP135016
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022406.D	23 May 2025 11:40	SY/MD	Ok
2	VSTDCCC050	VY022407.D	23 May 2025 14:34	SY/MD	Ok,M
3	VY0523SBL01	VY022408.D	23 May 2025 15:26	SY/MD	Ok
4	VY0523SBS01	VY022409.D	23 May 2025 16:28	SY/MD	Ok,M
5	VY0523SBSD01	VY022410.D	23 May 2025 16:50	SY/MD	Ok,M
6	Q2118-11	VY022411.D	23 May 2025 17:14	SY/MD	ReRun
7	Q2112-01RE	VY022412.D	23 May 2025 17:37	SY/MD	Confirms
8	Q2100-03	VY022413.D	23 May 2025 18:01	SY/MD	Ok
9	Q2127-11	VY022414.D	23 May 2025 18:24	SY/MD	ReRun
10	Q2127-01	VY022415.D	23 May 2025 18:47	SY/MD	Ok
11	Q2100-01	VY022416.D	23 May 2025 19:11	SY/MD	Ok
12	VIBLK	VY022417.D	23 May 2025 19:34	SY/MD	Ok
13	VY0523SBS02	VY022418.D	23 May 2025 19:57	SY/MD	Not Ok
14	VSTDCCC050	VY022419.D	23 May 2025 21:05	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022252.D	15 May 2025 07:52		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY022253.D	15 May 2025 09:46		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY022254.D	15 May 2025 10:16		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY022255.D	15 May 2025 10:39		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY022256.D	15 May 2025 11:02		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY022257.D	15 May 2025 11:24		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY022258.D	15 May 2025 11:47		SY/MD	Ok,M
8	VIBLK	VIBLK	VY022259.D	15 May 2025 12:34		SY/MD	Ok
9	VSTDICV050	ICVVY051525	VY022260.D	15 May 2025 13:20		SY/MD	Ok,M
10	VY0515SBL01	VY0515SBL01	VY022261.D	15 May 2025 13:44		SY/MD	Ok
11	VY0515SBS01	VY0515SBS01	VY022262.D	15 May 2025 14:07		SY/MD	Ok,M
12	VY0515SBSD01	VY0515SBSD01	VY022263.D	15 May 2025 14:29		SY/MD	Ok,M
13	Q1984-01	OU4-PCS-TC-33-05072	VY022264.D	15 May 2025 15:12	vial-A	SY/MD	Ok
14	Q1984-03	OU4-PCS-TC-34-05072	VY022265.D	15 May 2025 15:35	vial-A	SY/MD	Ok
15	Q1984-05	OU4-PCS-TC-35-05072	VY022266.D	15 May 2025 15:59	vial-A	SY/MD	Ok
16	Q1984-07	OU4-TS-24-050725	VY022267.D	15 May 2025 16:22	vial-A Surrogate fail	SY/MD	ReRun
17	Q1984-09	OU4-TS-25-050725	VY022268.D	15 May 2025 16:46	vial-A Surrogate fail	SY/MD	Not Ok
18	Q1984-11	OU4-TS-26-050725	VY022269.D	15 May 2025 17:09	vial-A Surrogate fail	SY/MD	Not Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1984-13	OU4-TS-27-050725	VY022270.D	15 May 2025 17:33	vial-A Surrogate fail	SY/MD	Not Ok
20	Q1984-15	OU4-TS-28-050725	VY022271.D	15 May 2025 17:56	vial-A Surrogate fail	SY/MD	ReRun
21	Q1982-04	TP-4	VY022272.D	15 May 2025 18:19	vial-A	SY/MD	Ok
22	Q1982-05	TP-5	VY022273.D	15 May 2025 18:43	vial-A	SY/MD	Ok
23	Q1982-06	TP-6	VY022274.D	15 May 2025 19:06	vial-A	SY/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VY022275.D	15 May 2025 19:52		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

Review By	John Carlone	Review On	5/23/2025 11:05:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/23/2025 4:07:06 PM		
SubDirectory	VY052225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134001
Initial Calibration Stds	
CCC	VP134002,VP134003
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022379.D	22 May 2025 08:05		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022380.D	22 May 2025 08:35		SY/MD	Ok,M
3	VY0522SBL01	VY0522SBL01	VY022381.D	22 May 2025 09:07		SY/MD	Ok
4	VY0522SBS01	VY0522SBS01	VY022382.D	22 May 2025 09:36		SY/MD	Ok,M
5	VY0522SBSD01	VY0522SBSD01	VY022383.D	22 May 2025 09:59		SY/MD	Ok,M
6	Q2087-03RE	NB-08-05202025RE	VY022384.D	22 May 2025 10:38	vial-B ,Internal Standard Fail	SY/MD	Confirms
7	Q2101-03	TP-1-MHE-VOC	VY022385.D	22 May 2025 11:01	vial-B	SY/MD	Ok
8	Q2097-11RE	RT3419RE	VY022386.D	22 May 2025 11:25	vial-B ,Internal Standard Fail	SY/MD	Confirms
9	Q2102-01	LAW-25-0077	VY022387.D	22 May 2025 11:48	vial-B	SY/MD	Ok
10	Q2104-01RE	TR-06-052125RE	VY022388.D	22 May 2025 12:11	vial-B ,Internal Standard Fail; Surrogate Fail	SY/MD	Confirms
11	Q2074-01	TP-12	VY022389.D	22 May 2025 12:35	vial-A	SY/MD	Ok
12	Q2074-02	TP-7	VY022390.D	22 May 2025 12:58	vial-A	SY/MD	Ok
13	Q2074-03	TP-15	VY022391.D	22 May 2025 13:22	vial-A	SY/MD	Ok
14	Q2074-04	TP-20	VY022392.D	22 May 2025 13:45	vial-A	SY/MD	Ok
15	Q2074-05	TP-38	VY022393.D	22 May 2025 14:09	vial-A	SY/MD	Ok
16	Q2074-06	TP-19	VY022394.D	22 May 2025 14:32	vial-A	SY/MD	Ok
17	Q2074-07	TP-40	VY022395.D	22 May 2025 14:55	vial-A	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

Review By	John Carlone	Review On	5/23/2025 11:05:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/23/2025 4:07:06 PM		
SubDirectory	VY052225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134001
Initial Calibration Stds	
CCC	VP134002,VP134003
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2074-08	TP-18	VY022396.D	22 May 2025 15:19	vial-A	SY/MD	Ok
19	Q2100-01	TP-16	VY022397.D	22 May 2025 15:42	vial-A ,Internal Standard Fail	SY/MD	ReRun
20	Q2100-02	TP-22	VY022398.D	22 May 2025 16:06	vial-A	SY/MD	Ok
21	Q2100-03	TP-21	VY022399.D	22 May 2025 16:29	vial-A ,Not purge	SY/MD	Not Ok
22	Q2100-04	TP-45	VY022400.D	22 May 2025 16:53	vial-A	SY/MD	Ok
23	Q2112-01	EO-03-05222025	VY022401.D	22 May 2025 17:16	vial-A ,Internal Standard Fail	SY/MD	ReRun
24	Q2109-03	TP-02-MHF-VOC	VY022402.D	22 May 2025 17:40	vial-A	SY/MD	Ok
25	Q2075-06	SS-MW1-11.5	VY022403.D	22 May 2025 18:03	vial-A ,Need MeOH	SY/MD	Dilution
26	VIBLK	VIBLK	VY022404.D	22 May 2025 18:26		SY/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VY022405.D	22 May 2025 18:49		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052325

Review By	Mahesh Dadoda	Review On	5/27/2025 4:51:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/27/2025 4:53:09 AM		
SubDirectory	VY052325	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y051525S.M

STD. NAME	STD REF.#
Tune/Reschk	VP134014
Initial Calibration Stds	
CCC	VP134015,VP135016
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022406.D	23 May 2025 11:40		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022407.D	23 May 2025 14:34		SY/MD	Ok,M
3	VY0523SBL01	VY0523SBL01	VY022408.D	23 May 2025 15:26		SY/MD	Ok
4	VY0523SBS01	VY0523SBS01	VY022409.D	23 May 2025 16:28		SY/MD	Ok,M
5	VY0523SBSD01	VY0523SBSD01	VY022410.D	23 May 2025 16:50		SY/MD	Ok,M
6	Q2118-11	BP-TPB-182-GW-500-5	VY022411.D	23 May 2025 17:14	Surrogate Fail	SY/MD	ReRun
7	Q2112-01RE	EO-03-05222025RE	VY022412.D	23 May 2025 17:37	Internal Standard Fail	SY/MD	Confirms
8	Q2100-03	TP-21	VY022413.D	23 May 2025 18:01	vial-B	SY/MD	Ok
9	Q2127-11	COMP-2	VY022414.D	23 May 2025 18:24	Internal Standard Fail	SY/MD	ReRun
10	Q2127-01	COMP-1	VY022415.D	23 May 2025 18:47		SY/MD	Ok
11	Q2100-01	TP-16	VY022416.D	23 May 2025 19:11	vial-B	SY/MD	Ok
12	VIBLK	VIBLK	VY022417.D	23 May 2025 19:34		SY/MD	Ok
13	VY0523SBS02	VY0523SBS02	VY022418.D	23 May 2025 19:57	Not required	SY/MD	Not Ok
14	VSTDCCC050	VSTDCCC050EC	VY022419.D	23 May 2025 21:05		SY/MD	Ok,M

M : Manual Integration

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

LAB CHRONICLE

OrderID:	Q2100	**OrderDate:**	5/20/2025 3:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	**TP-16**	**SOIL**			**05/19/25**			**05/20/25**
			VOC-TCLVOA-10	8260D			05/23/25	
Q2100-02	**TP-22**	**SOIL**			**05/19/25**			**05/20/25**
			VOC-TCLVOA-10	8260D			05/22/25	
Q2100-03	**TP-21**	**SOIL**			**05/20/25**			**05/20/25**
			VOC-TCLVOA-10	8260D			05/23/25	
Q2100-04	**TP-45**	**SOIL**			**05/20/25**			**05/20/25**
			VOC-TCLVOA-10	8260D			05/22/25	