284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration		C	MDL	RDL	Units
Client ID:	**B-154-SB01**									
Q1422-01	B-154-SB01	SOIL	Acetone		18.3		J	8.00	32.0	ug/Kg
			Total Voc :			18.3				
Q1422-01	B-154-SB01	SOIL	Propene	*	13.4		J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	1-Propene, 2-methyl-	*	17.4		J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	Cyclopentane	*	16.6		J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	11H-Dibenzo[b,e][1,4]diazepin	*	22.4		J	0	0	ug/Kg
			Total Tics :			69.8				
			Total Concentration:			88.1				
Client ID:	**B-154-SB02**									
Q1422-02	B-154-SB02	SOIL	Benzeneethanamine, N-[(penta	*	4.20		J	0	0	ug/Kg
			Total Tics :			4.20				
			Total Concentration:			4.20				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	4.42 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
VY021357.D	1		02/27/25 14:48	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.10	U	2.10	6.40	ug/Kg
74-87-3	Chloromethane	1.50	U	1.50	6.40	ug/Kg
75-01-4	Vinyl Chloride	0.99	U	0.99	6.40	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.40	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	6.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	6.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	6.40	ug/Kg
67-64-1	Acetone	18.3	J	8.00	32.0	ug/Kg
75-15-0	Carbon Disulfide	1.60	U	1.60	6.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.86	U	0.86	6.40	ug/Kg
79-20-9	Methyl Acetate	2.30	U	2.30	6.40	ug/Kg
75-09-2	Methylene Chloride	4.40	U	4.40	12.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.81	U	0.81	6.40	ug/Kg
110-82-7	Cyclohexane	0.88	U	0.88	6.40	ug/Kg
78-93-3	2-Butanone	7.30	U	7.30	32.0	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	6.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.78	U	0.78	6.40	ug/Kg
74-97-5	Bromochloromethane	3.10	U	3.10	6.40	ug/Kg
67-66-3	Chloroform	0.86	U	0.86	6.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	6.40	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.40	ug/Kg
71-43-2	Benzene	0.92	U	0.92	6.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.78	U	0.78	6.40	ug/Kg
79-01-6	Trichloroethene	0.96	U	0.96	6.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	6.40	ug/Kg
75-27-4	Bromodichloromethane	0.72	U	0.72	6.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.60	U	5.60	32.0	ug/Kg
108-88-3	Toluene	0.86	U	0.86	6.40	ug/Kg

Raw Data: **VY021357.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	4.42 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
VY021357.D	1		02/27/25 14:48	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.77	U	0.77	6.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.73	U	0.73	6.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.40	ug/Kg
591-78-6	2-Hexanone	6.10	U	6.10	32.0	ug/Kg
124-48-1	Dibromochloromethane	0.83	U	0.83	6.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	6.40	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	6.40	ug/Kg
108-90-7	Chlorobenzene	0.95	U	0.95	6.40	ug/Kg
100-41-4	Ethyl Benzene	0.79	U	0.79	6.40	ug/Kg
179601-23-1	m/p-Xylenes	1.70	U	1.70	12.8	ug/Kg
95-47-6	o-Xylene	0.90	U	0.90	6.40	ug/Kg
100-42-5	Styrene	0.77	U	0.77	6.40	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	6.40	ug/Kg
98-82-8	Isopropylbenzene	0.86	U	0.86	6.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	6.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.95	U	0.95	6.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.00	U	1.00	6.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.76	U	0.76	6.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	6.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	6.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.00	U	1.00	6.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		70 (50) - 130 (163)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	55.9		70 (54) - 130 (147)	112%	SPK: 50
2037-26-5	Toluene-d8	46.9		70 (58) - 130 (134)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	25.8	*	70 (29) - 130 (146)	52%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	97000	7.707			
540-36-3	1,4-Difluorobenzene	161000	8.616			
3114-55-4	Chlorobenzene-d5	116000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	27800	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY021357.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	4.42 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
VY021357.D	1		02/27/25 14:48	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000115-07-1	Propene	13.4	J		1.82	ug/Kg
000115-11-7	1-Propene, 2-methyl-	17.4	J		2.17	ug/Kg
000287-92-3	Cyclopentane	16.6	J		4.71	ug/Kg
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	22.4	J		13.9	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

Raw Data: **VY021380.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01RE	SDG No.:	Q1422
Lab Sample ID:	Q1422-01RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	3.82 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
VY021380.D	1		02/28/25 13:20	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.40	U	2.40	7.40	ug/Kg
74-87-3	Chloromethane	1.70	U	1.70	7.40	ug/Kg
75-01-4	Vinyl Chloride	1.10	U	1.10	7.40	ug/Kg
74-83-9	Bromomethane	1.50	U	1.50	7.40	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	7.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	7.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	U	1.60	7.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	7.40	ug/Kg
67-64-1	Acetone	9.20	U	9.20	37.0	ug/Kg
75-15-0	Carbon Disulfide	1.90	U	1.90	7.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.99	U	0.99	7.40	ug/Kg
79-20-9	Methyl Acetate	2.70	U	2.70	7.40	ug/Kg
75-09-2	Methylene Chloride	5.00	U	5.00	14.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.20	U	1.20	7.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.93	U	0.93	7.40	ug/Kg
110-82-7	Cyclohexane	1.00	U	1.00	7.40	ug/Kg
78-93-3	2-Butanone	8.40	U	8.40	37.0	ug/Kg
56-23-5	Carbon Tetrachloride	1.30	U	1.30	7.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	7.40	ug/Kg
74-97-5	Bromochloromethane	3.60	U	3.60	7.40	ug/Kg
67-66-3	Chloroform	0.99	U	0.99	7.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	7.40	ug/Kg
108-87-2	Methylcyclohexane	1.30	U	1.30	7.40	ug/Kg
71-43-2	Benzene	1.10	U	1.10	7.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.90	U	0.90	7.40	ug/Kg
79-01-6	Trichloroethene	1.10	U	1.10	7.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.98	U	0.98	7.40	ug/Kg
75-27-4	Bromodichloromethane	0.83	U	0.83	7.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.40	U	6.40	37.0	ug/Kg
108-88-3	Toluene	0.99	U	0.99	7.40	ug/Kg

Raw Data: **VY021380.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01RE	SDG No.:	Q1422
Lab Sample ID:	Q1422-01RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	3.82 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
VY021380.D	1		02/28/25 13:20	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.89	U	0.89	7.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.84	U	0.84	7.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.20	U	1.20	7.40	ug/Kg
591-78-6	2-Hexanone	7.10	U	7.10	37.0	ug/Kg
124-48-1	Dibromochloromethane	0.96	U	0.96	7.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.20	U	1.20	7.40	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	7.40	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	7.40	ug/Kg
100-41-4	Ethyl Benzene	0.92	U	0.92	7.40	ug/Kg
179601-23-1	m/p-Xylenes	2.00	U	2.00	14.8	ug/Kg
95-47-6	o-Xylene	1.00	U	1.00	7.40	ug/Kg
100-42-5	Styrene	0.89	U	0.89	7.40	ug/Kg
75-25-2	Bromoform	1.20	U	1.20	7.40	ug/Kg
98-82-8	Isopropylbenzene	0.99	U	0.99	7.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.60	U	1.60	7.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.10	U	1.10	7.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	7.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.87	U	0.87	7.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.30	U	2.30	7.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.20	U	1.20	7.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.20	U	1.20	7.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		70 (63) - 130 (155)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	46.3		70 (74) - 130 (123)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.8		70 (38) - 130 (136)	74%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	102000	7.707			
540-36-3	1,4-Difluorobenzene	172000	8.616			
3114-55-4	Chlorobenzene-d5	143000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	52000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01RE	SDG No.:	Q1422
Lab Sample ID:	Q1422-01RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	3.82 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
VY021380.D	1		02/28/25 13:20	VY022825

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	87.3
Sample Wt/Vol:	8.94 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
VY021381.D	1		02/28/25 15:31	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	3.20	ug/Kg
74-87-3	Chloromethane	0.74	U	0.74	3.20	ug/Kg
75-01-4	Vinyl Chloride	0.49	U	0.49	3.20	ug/Kg
74-83-9	Bromomethane	0.66	U	0.66	3.20	ug/Kg
75-00-3	Chloroethane	0.65	U	0.65	3.20	ug/Kg
75-69-4	Trichlorofluoromethane	0.58	U	0.58	3.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.69	U	0.69	3.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.50	U	0.50	3.20	ug/Kg
67-64-1	Acetone	4.00	U	4.00	16.0	ug/Kg
75-15-0	Carbon Disulfide	0.82	U	0.82	3.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.43	U	0.43	3.20	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.20	ug/Kg
75-09-2	Methylene Chloride	2.20	U	2.20	6.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.54	U	0.54	3.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.40	U	0.40	3.20	ug/Kg
110-82-7	Cyclohexane	0.44	U	0.44	3.20	ug/Kg
78-93-3	2-Butanone	3.60	U	3.60	16.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.56	U	0.56	3.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.39	U	0.39	3.20	ug/Kg
74-97-5	Bromochloromethane	1.60	U	1.60	3.20	ug/Kg
67-66-3	Chloroform	0.43	U	0.43	3.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	3.20	ug/Kg
108-87-2	Methylcyclohexane	0.56	U	0.56	3.20	ug/Kg
71-43-2	Benzene	0.46	U	0.46	3.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.39	U	0.39	3.20	ug/Kg
79-01-6	Trichloroethene	0.48	U	0.48	3.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.42	U	0.42	3.20	ug/Kg
75-27-4	Bromodichloromethane	0.36	U	0.36	3.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	16.0	ug/Kg
108-88-3	Toluene	0.43	U	0.43	3.20	ug/Kg

Raw Data: **VY021381.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	87.3
Sample Wt/Vol:	8.94 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
VY021381.D	1		02/28/25 15:31	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.38	U	0.38	3.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.37	U	0.37	3.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.54	U	0.54	3.20	ug/Kg
591-78-6	2-Hexanone	3.10	U	3.10	16.0	ug/Kg
124-48-1	Dibromochloromethane	0.42	U	0.42	3.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.51	U	0.51	3.20	ug/Kg
127-18-4	Tetrachloroethene	0.57	U	0.57	3.20	ug/Kg
108-90-7	Chlorobenzene	0.47	U	0.47	3.20	ug/Kg
100-41-4	Ethyl Benzene	0.40	U	0.40	3.20	ug/Kg
179601-23-1	m/p-Xylenes	0.86	U	0.86	6.40	ug/Kg
95-47-6	o-Xylene	0.45	U	0.45	3.20	ug/Kg
100-42-5	Styrene	0.38	U	0.38	3.20	ug/Kg
75-25-2	Bromoform	0.52	U	0.52	3.20	ug/Kg
98-82-8	Isopropylbenzene	0.43	U	0.43	3.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.70	U	0.70	3.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.47	U	0.47	3.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.51	U	0.51	3.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.38	U	0.38	3.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	1.00	3.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.51	U	0.51	3.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	3.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		70 (63) - 130 (155)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	53.9		70 (70) - 130 (134)	108%	SPK: 50
2037-26-5	Toluene-d8	47.4		70 (74) - 130 (123)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.2		70 (38) - 130 (136)	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	138000	7.707			
540-36-3	1,4-Difluorobenzene	246000	8.615			
3114-55-4	Chlorobenzene-d5	217000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	82200	13.352			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY021381.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	87.3
Sample Wt/Vol:	8.94 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
VY021381.D	1		02/28/25 15:31	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
055429-85-1	Benzeneethanamine, N-[(pentafluoro	4.20	J		13.9	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

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q1422-01	B-154-SB01	1,2-Dichloroethane-d4	50	57.4	115		70 (50)	130 (163)
		Dibromofluoromethane	50	55.9	112		70 (54)	130 (147)
		Toluene-d8	50	46.9	94		70 (58)	130 (134)
		4-Bromofluorobenzene	50	25.9	52	*	70 (29)	130 (146)
Q1422-01RE	B-154-SB01RE	1,2-Dichloroethane-d4	50	48.5	97		70 (63)	130 (155)
		Dibromofluoromethane	50	51.9	104		70 (70)	130 (134)
		Toluene-d8	50	46.3	93		70 (74)	130 (123)
		4-Bromofluorobenzene	50	36.8	74		70 (38)	130 (136)
Q1422-02	B-154-SB02	1,2-Dichloroethane-d4	50	56.0	112		70 (63)	130 (155)
		Dibromofluoromethane	50	53.9	108		70 (70)	130 (134)
		Toluene-d8	50	47.5	95		70 (74)	130 (123)
		4-Bromofluorobenzene	50	41.2	82		70 (38)	130 (136)
VY0227SBL01	VY0227SBL01	1,2-Dichloroethane-d4	50	59.2	118		70 (50)	130 (163)
		Dibromofluoromethane	50	52.5	105		70 (54)	130 (147)
		Toluene-d8	50	48.2	96		70 (58)	130 (134)
		4-Bromofluorobenzene	50	49.5	99		70 (29)	130 (146)
VY0227SBS01	VY0227SBS01	1,2-Dichloroethane-d4	50	51.1	102		70 (50)	130 (163)
		Dibromofluoromethane	50	52.3	105		70 (54)	130 (147)
		Toluene-d8	50	52.3	105		70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.4	105		70 (29)	130 (146)
VY0227SBSD01	VY0227SBSD01	1,2-Dichloroethane-d4	50	45.2	90		70 (50)	130 (163)
		Dibromofluoromethane	50	45.6	91		70 (54)	130 (147)
		Toluene-d8	50	45.3	91		70 (58)	130 (134)
		4-Bromofluorobenzene	50	45.3	91		70 (29)	130 (146)
VY0228SBL01	VY0228SBL01	1,2-Dichloroethane-d4	50	52.2	104		70 (63)	130 (155)
		Dibromofluoromethane	50	52.0	104		70 (70)	130 (134)
		Toluene-d8	50	47.1	94		70 (74)	130 (123)
		4-Bromofluorobenzene	50	40.7	81		70 (38)	130 (136)
VY0228SBS01	VY0228SBS01	1,2-Dichloroethane-d4	50	43.2	86		70 (63)	130 (155)
		Dibromofluoromethane	50	45.7	91		70 (70)	130 (134)
		Toluene-d8	50	44.4	89		70 (74)	130 (123)
		4-Bromofluorobenzene	50	43.7	87		70 (38)	130 (136)

( ) = LABORATORY INHOUSE LIMIT

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021348.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0227SBS01	Dichlorodifluoromethane	20	19.6	ug/Kg	98			40 (64)	160 (136)	
	Chloromethane	20	18.5	ug/Kg	93			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	19.1	ug/Kg	96			40 (58)	160 (141)	
	Chloroethane	20	19.9	ug/Kg	100			40 (69)	160 (130)	
	Trichlorofluoromethane	20	20.2	ug/Kg	101			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.9	ug/Kg	100			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	18.5	ug/Kg	93			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96			70 (77)	130 (129)	
	Methyl Acetate	20	18.3	ug/Kg	92			70 (69)	130 (149)	
	Methylene Chloride	20	19.9	ug/Kg	100			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.6	ug/Kg	98			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Cyclohexane	20	18.7	ug/Kg	94			70 (76)	130 (122)	
	2-Butanone	100	97.4	ug/Kg	97			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.9	ug/Kg	100			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Bromochloromethane	20	19.0	ug/Kg	95			70 (80)	130 (127)	
	Chloroform	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.0	ug/Kg	100			70 (80)	130 (126)	
	Methylcyclohexane	20	19.3	ug/Kg	97			70 (77)	130 (123)	
	Benzene	20	19.9	ug/Kg	100			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.3	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.8	ug/Kg	99			70 (83)	130 (122)	
	Bromodichloromethane	20	20.2	ug/Kg	101			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	92.0	ug/Kg	92			40 (70)	160 (135)	
	Toluene	20	20.2	ug/Kg	101			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.5	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.4	ug/Kg	97			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	2-Hexanone	100	95.9	ug/Kg	96			40 (66)	160 (138)	
	Dibromochloromethane	20	19.8	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.5	ug/Kg	98			70 (80)	130 (125)	
	Tetrachloroethene	20	19.9	ug/Kg	100			70 (83)	130 (125)	
	Chlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	20.1	ug/Kg	101			70 (82)	130 (124)	
	m/p-Xylenes	40	40.4	ug/Kg	101			70 (83)	130 (124)	
	o-Xylene	20	19.8	ug/Kg	99			70 (83)	130 (123)	
	Styrene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	Bromoform	20	19.9	ug/Kg	100			70 (75)	130 (127)	
	Isopropylbenzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/Kg	95			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.6	ug/Kg	98			70 (83)	130 (124)	

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021348.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0227SBS01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/Kg	94			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.3	ug/Kg	92			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.9	ug/Kg	95			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021349.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0227SBSD01	Dichlorodifluoromethane	20	18.7	ug/Kg	94	4		40 (64)	160 (136)	30 (20)
	Chloromethane	20	18.3	ug/Kg	92	1		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	18.6	ug/Kg	93	4		70 (72)	130 (129)	30 (20)
	Bromomethane	20	18.6	ug/Kg	93	3		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.7	ug/Kg	99	1		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.5	ug/Kg	98	3		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/Kg	101	1		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	19.5	ug/Kg	98	2		70 (79)	130 (121)	30 (20)
	Acetone	100	100	ug/Kg	100	10		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	18.4	ug/Kg	92	1		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	19.9	ug/Kg	100	4		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	19.4	ug/Kg	97	5		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.8	ug/Kg	104	4		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	19.4	ug/Kg	97	1		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.3	ug/Kg	97	1		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	18.2	ug/Kg	91	3		70 (76)	130 (122)	30 (20)
	2-Butanone	100	100	ug/Kg	100	3		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	19.8	ug/Kg	99	1		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	19.7	ug/Kg	99	1		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.1	ug/Kg	101	6		70 (80)	130 (127)	30 (20)
	Chloroform	20	19.9	ug/Kg	100	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	19.7	ug/Kg	99	1		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.2	ug/Kg	96	1		70 (77)	130 (123)	30 (20)
	Benzene	20	19.8	ug/Kg	99	1		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.4	ug/Kg	102	0		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.0	ug/Kg	100	0		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	19.6	ug/Kg	98	1		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.2	ug/Kg	101	0		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	99.2	ug/Kg	99	7		40 (70)	160 (135)	30 (20)
	Toluene	20	19.9	ug/Kg	100	1		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.7	ug/Kg	99	1		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.5	ug/Kg	98	1		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.3	ug/Kg	102	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	99.7	ug/Kg	100	4		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.6	ug/Kg	103	4		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.1	ug/Kg	101	3		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	19.7	ug/Kg	99	1		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	19.6	ug/Kg	98	1		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.7	ug/Kg	99	2		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	39.4	ug/Kg	99	2		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.7	ug/Kg	99	0		70 (83)	130 (123)	30 (20)
	Styrene	20	19.5	ug/Kg	98	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	19.9	ug/Kg	100	0		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.5	ug/Kg	98	1		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	20.3	ug/Kg	102	7		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.7	ug/Kg	99	1		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	19.6	ug/Kg	98	1		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99	1		70 (83)	130 (124)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021349.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0227SBSD01	1,2-Dibromo-3-Chloropropane	20	20.7	ug/Kg	104	10		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.0	ug/Kg	95	3		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95	0		70 (70)	130 (137)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021377.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0228SBS01	Dichlorodifluoromethane	20	18.6	ug/Kg	93			40 (64)	160 (136)	
	Chloromethane	20	17.7	ug/Kg	89			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	20.1	ug/Kg	101			40 (58)	160 (141)	
	Chloroethane	20	20.1	ug/Kg	101			40 (69)	160 (130)	
	Trichlorofluoromethane	20	20.0	ug/Kg	100			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/Kg	99			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.8	ug/Kg	94			70 (79)	130 (121)	
	Acetone	100	77.6	ug/Kg	78			40 (60)	160 (131)	
	Carbon disulfide	20	17.4	ug/Kg	87			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	18.8	ug/Kg	94			70 (77)	130 (129)	
	Methyl Acetate	20	18.4	ug/Kg	92			70 (69)	130 (149)	
	Methylene Chloride	20	19.1	ug/Kg	96			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	18.4	ug/Kg	92			70 (80)	130 (123)	
	1,1-Dichloroethane	20	18.2	ug/Kg	91			70 (82)	130 (123)	
	Cyclohexane	20	17.1	ug/Kg	86			70 (76)	130 (122)	
	2-Butanone	100	83.5	ug/Kg	84			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.5	ug/Kg	98			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	18.7	ug/Kg	94			70 (82)	130 (123)	
	Bromochloromethane	20	17.8	ug/Kg	89			70 (80)	130 (127)	
	Chloroform	20	18.9	ug/Kg	95			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.1	ug/Kg	96			70 (80)	130 (126)	
	Methylcyclohexane	20	18.1	ug/Kg	91			70 (77)	130 (123)	
	Benzene	20	19.1	ug/Kg	96			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.5	ug/Kg	98			70 (81)	130 (126)	
	Trichloroethene	20	19.6	ug/Kg	98			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.0	ug/Kg	95			70 (83)	130 (122)	
	Bromodichloromethane	20	19.7	ug/Kg	99			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	92.3	ug/Kg	92			40 (70)	160 (135)	
	Toluene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	18.6	ug/Kg	93			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	18.7	ug/Kg	94			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	19.7	ug/Kg	99			70 (82)	130 (125)	
	2-Hexanone	100	91.3	ug/Kg	91			40 (66)	160 (138)	
	Dibromochloromethane	20	20.4	ug/Kg	102			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.5	ug/Kg	98			70 (80)	130 (125)	
	Tetrachloroethene	20	20.4	ug/Kg	102			70 (83)	130 (125)	
	Chlorobenzene	20	19.7	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	19.1	ug/Kg	96			70 (82)	130 (124)	
	m/p-Xylenes	40	39.2	ug/Kg	98			70 (83)	130 (124)	
	o-Xylene	20	19.4	ug/Kg	97			70 (83)	130 (123)	
	Styrene	20	19.6	ug/Kg	98			70 (82)	130 (124)	
	Bromoform	20	20.2	ug/Kg	101			70 (75)	130 (127)	
	Isopropylbenzene	20	18.9	ug/Kg	95			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	19.2	ug/Kg	96			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.5	ug/Kg	98			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.3	ug/Kg	97			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.5	ug/Kg	98			70 (83)	130 (124)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021377.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0228SBS01	1,2-Dibromo-3-Chloropropane	20	18.5	ug/Kg	93			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.4	ug/Kg	92			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.7	ug/Kg	94			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0227SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021347.D Lab Sample ID: VY0227SBL01

Date Analyzed: 02/27/2025 Time Analyzed: 10:42

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
VY0227SBS01	VY0227SBS01	VY021348.D	02/27/2025
VY0227SBSD01	VY0227SBSD01	VY021349.D	02/27/2025
B-154-SB01	Q1422-01	VY021357.D	02/27/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0228SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021376.D Lab Sample ID: VY0228SBL01

Date Analyzed: 02/28/2025 Time Analyzed: 10:59

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
VY0228SBS01	VY0228SBS01	VY021377.D	02/28/2025
B-154-SB01RE	Q1422-01RE	VY021380.D	02/28/2025
B-154-SB02	Q1422-02	VY021381.D	02/28/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021308.D BFB Injection Date: 02/25/2025

Instrument ID: MSVOA_Y BFB Injection Time: 12:10

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	20.8
75	30.0 - 60.0% of mass 95	55.4
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	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	84.7
175	5.0 - 9.0% of mass 174	6.4 (7.5) 1
176	95.0 - 101.0% of mass 174	83.6 (98.8) 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
VSTDICC005	VSTDICC005	VY021309.D	02/25/2025	12:40
VSTDICC010	VSTDICC010	VY021310.D	02/25/2025	13:03
VSTDICC020	VSTDICC020	VY021311.D	02/25/2025	13:26
VSTDICCC050	VSTDICCC050	VY021312.D	02/25/2025	14:48
VSTDICC150	VSTDICC150	VY021314.D	02/25/2025	15:57
VSTDICC100	VSTDICC100	VY021316.D	02/25/2025	16:49

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021345.D BFB Injection Date: 02/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:41

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	21.8
75	30.0 - 60.0% of mass 95	54.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.2 (1.4) 1
174	50.0 - 100.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.5 (7.8) 1
176	95.0 - 101.0% of mass 174	80.4 (96.4) 1
177	5.0 - 9.0% of mass 176	5.2 (6.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021346.D	02/27/2025	10:13
VY0227SBL01	VY0227SBL01	VY021347.D	02/27/2025	10:42
VY0227SBS01	VY0227SBS01	VY021348.D	02/27/2025	11:18
VY0227SBSD01	VY0227SBSD01	VY021349.D	02/27/2025	11:40
B-154-SB01	Q1422-01	VY021357.D	02/27/2025	14:48

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021374.D BFB Injection Date: 02/28/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:03

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	22.7
75	30.0 - 60.0% of mass 95	56.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	1.4 (1.6) 1
174	50.0 - 100.0% of mass 95	84
175	5.0 - 9.0% of mass 174	6.5 (7.7) 1
176	95.0 - 101.0% of mass 174	80.5 (95.9) 1
177	5.0 - 9.0% of mass 176	5.2 (6.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021375.D	02/28/2025	09:44
VY0228SBL01	VY0228SBL01	VY021376.D	02/28/2025	10:59
VY0228SBS01	VY0228SBS01	VY021377.D	02/28/2025	11:32
B-154-SB01RE	Q1422-01RE	VY021380.D	02/28/2025	13:20
B-154-SB02	Q1422-02	VY021381.D	02/28/2025	15:31

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021346.D Date Analyzed: 02/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:13

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	216838		7.71	336652		8.62	298167		11.42
UPPER LIMIT	433676		8.207	673304		9.116	596334		11.92
LOWER LIMIT	108419		7.207	168326		8.116	149084		10.92
EPA SAMPLE NO.									
B-154-SB01	96952	*	7.71	160918	*	8.62	115865	*	11.41
VY0227SBL01	140233		7.71	264026		8.62	255103		11.41
VY0227SBS01	199987		7.71	311959		8.62	272418		11.41
VY0227SBSD01	198659		7.71	310671		8.61	272052		11.41

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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021346.D Date Analyzed: 02/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:13

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

	IS4 AREA #		RT #				
12 HOUR STD	146841		13.347				
UPPER LIMIT	293682		13.847				
LOWER LIMIT	73420.5		12.847				
EPA SAMPLE NO.							
B-154-SB01	27807	*	13.35				
VY0227SBL01	107368		13.35				
VY0227SBS01	138215		13.35				
VY0227SBSD01	137933		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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021375.D Date Analyzed: 02/28/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:44

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	170466	7.71	255493	8.62	227302	11.42
UPPER LIMIT	340932	8.207	510986	9.116	454604	11.92
LOWER LIMIT	85233	7.207	127747	8.116	113651	10.92
EPA SAMPLE NO.						
B-154-SB01RE	101641	7.71	171514	8.62	143270	11.41
B-154-SB02	137587	7.71	246433	8.62	216935	11.42
VY0228SBL01	105534	7.71	180558	8.62	159029	11.42
VY0228SBS01	168970	7.71	257471	8.62	224033	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021375.D Date Analyzed: 02/28/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:44

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

	IS4 AREA #		RT #				
12 HOUR STD	113605		13.353				
UPPER LIMIT	227210		13.853				
LOWER LIMIT	56802.5		12.853				
EPA SAMPLE NO.							
B-154-SB01RE	51974	*	13.35				
B-154-SB02	82177		13.35				
VY0228SBL01	59388		13.35				
VY0228SBS01	115456		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
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	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	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

Raw Data: **VY021347.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (50) - 130 (163)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		70 (29) - 130 (146)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	7.707			
540-36-3	1,4-Difluorobenzene	264000	8.615			
3114-55-4	Chlorobenzene-d5	255000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	107000	13.346			

Raw Data: **VY021347.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021347.D	1		02/27/25 10:42	VY022725

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021376.D	1		02/28/25 10:59	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	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	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021376.D	1		02/28/25 10:59	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		70 (63) - 130 (155)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	47.1		70 (74) - 130 (123)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.7		70 (38) - 130 (136)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	106000	7.713			
540-36-3	1,4-Difluorobenzene	181000	8.616			
3114-55-4	Chlorobenzene-d5	159000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	59400	13.353			

Raw Data: **VY021376.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021376.D	1		02/28/25 10:59	VY022825

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.5		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.1		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.9		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.2		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.9		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.6		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.7		0.69	5.00	ug/Kg
78-93-3	2-Butanone	97.4		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.9		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.0		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.0		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.3		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.8		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.0		4.40	25.0	ug/Kg
108-88-3	Toluene	20.2		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.5		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.4		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.1		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	95.9		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.8		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.70	5.00	ug/Kg
100-42-5	Styrene	19.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.9		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.8		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.0		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.8		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (58) - 130 (134)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		70 (29) - 130 (146)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	312000	8.616			
3114-55-4	Chlorobenzene-d5	272000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.346			

Raw Data: **VY021348.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021348.D	1		02/27/25 11:18	VY022725

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021377.D	1		02/28/25 11:32	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	17.7		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.1		1.00	5.00	ug/Kg
75-00-3	Chloroethane	20.1		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.0		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.8		0.78	5.00	ug/Kg
67-64-1	Acetone	77.6		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.4		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.8		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.4		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.1		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.2		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	83.5		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.5		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.8		2.40	5.00	ug/Kg
67-66-3	Chloroform	18.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.1		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.1		0.87	5.00	ug/Kg
71-43-2	Benzene	19.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.5		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.0		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.3		4.40	25.0	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg

Raw Data: **VY021377.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021377.D	1		02/28/25 11:32	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.6		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	18.7		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.7		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	91.3		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.4		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.7		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.1		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.70	5.00	ug/Kg
100-42-5	Styrene	19.6		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.9		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.2		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.5		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.5		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.4		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.7		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.2		70 (63) - 130 (155)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	45.7		70 (70) - 130 (134)	91%	SPK: 50
2037-26-5	Toluene-d8	44.3		70 (74) - 130 (123)	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.7		70 (38) - 130 (136)	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	169000	7.707			
540-36-3	1,4-Difluorobenzene	257000	8.616			
3114-55-4	Chlorobenzene-d5	224000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.346			

Raw Data: **VY021377.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021377.D	1		02/28/25 11:32	VY022825

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBSD01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021349.D	1		02/27/25 11:40	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.3		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.6		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.6		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.7		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.5		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.5		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.4		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.9		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.4		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.8		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.3		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.2		0.69	5.00	ug/Kg
78-93-3	2-Butanone	100		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	20.1		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.2		0.87	5.00	ug/Kg
71-43-2	Benzene	19.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.6		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.2		4.40	25.0	ug/Kg
108-88-3	Toluene	19.9		0.67	5.00	ug/Kg

Raw Data: **VY021349.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBSD01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021349.D	1		02/27/25 11:40	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.7		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.3		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	99.7		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.6		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.1		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.7		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.70	5.00	ug/Kg
100-42-5	Styrene	19.5		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.9		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.5		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.3		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.7		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.6		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.2		70 (50) - 130 (163)	90%	SPK: 50
1868-53-7	Dibromofluoromethane	45.6		70 (54) - 130 (147)	91%	SPK: 50
2037-26-5	Toluene-d8	45.3		70 (58) - 130 (134)	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		70 (29) - 130 (146)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	199000	7.707			
540-36-3	1,4-Difluorobenzene	311000	8.61			
3114-55-4	Chlorobenzene-d5	272000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.347			

Raw Data: **VY021349.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBSD01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021349.D	1		02/27/25 11:40	VY022725

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: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49

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

LAB FILE ID: RRF005 = VY021309.D RRF010 = VY021310.D RRF020 = VY021311.D
RRF050 = VY021312.D RRF150 = VY021314.D RRF100 = VY021316.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.510	0.484	0.431	0.493	0.480	0.447	0.474	6.2
Chloromethane	0.709	0.628	0.566	0.602	0.597	0.570	0.612	8.6
Vinyl Chloride	0.648	0.591	0.554	0.627	0.606	0.580	0.601	5.6
Bromomethane	0.505	0.414	0.361	0.387	0.371	0.359	0.399	13.9
Chloroethane	0.414	0.365	0.347	0.390	0.365	0.355	0.373	6.7
Trichlorofluoromethane	0.976	0.915	0.838	0.936	0.909	0.870	0.908	5.3
1,1,2-Trichlorotrifluoroethane	0.546	0.529	0.491	0.537	0.541	0.508	0.525	4.1
1,1-Dichloroethene	0.545	0.489	0.462	0.515	0.518	0.490	0.503	5.7
Acetone	0.122	0.102	0.094	0.128	0.104	0.103	0.109	11.9
Carbon Disulfide	1.800	1.652	1.540	1.734	1.678	1.620	1.671	5.4
Methyl tert-butyl Ether	1.312	1.268	1.267	1.410	1.410	1.307	1.329	4.9
Methyl Acetate	0.285	0.249	0.259	0.276	0.276	0.250	0.266	5.7
Methylene Chloride	0.733	0.598	0.539	0.585	0.547	0.529	0.588	12.8
trans-1,2-Dichloroethene	0.589	0.536	0.507	0.573	0.570	0.547	0.554	5.4
1,1-Dichloroethane	1.101	1.032	0.961	1.083	1.058	1.007	1.040	4.9
Cyclohexane	1.182	1.025	0.910	0.989	0.971	0.923	1.000	9.9
2-Butanone	0.162	0.155	0.156	0.183	0.171	0.159	0.164	6.5
Carbon Tetrachloride	0.567	0.562	0.509	0.581	0.567	0.535	0.554	4.8
cis-1,2-Dichloroethene	0.649	0.610	0.588	0.665	0.656	0.626	0.632	4.7
Bromochloromethane	0.525	0.442	0.438	0.454	0.464	0.439	0.460	7.2
Chloroform	1.128	1.046	0.977	1.095	1.062	1.017	1.054	5.1
1,1,1-Trichloroethane	1.020	0.956	0.889	0.986	0.979	0.927	0.960	4.8
Methylcyclohexane	0.597	0.613	0.584	0.662	0.663	0.618	0.623	5.3
Benzene	1.515	1.445	1.359	1.533	1.472	1.409	1.456	4.5
1,2-Dichloroethane	0.422	0.417	0.393	0.434	0.419	0.394	0.413	3.9
Trichloroethene	0.375	0.360	0.341	0.382	0.375	0.354	0.364	4.3
1,2-Dichloropropane	0.360	0.350	0.329	0.371	0.357	0.336	0.350	4.5
Bromodichloromethane	0.519	0.503	0.477	0.541	0.528	0.495	0.511	4.5
4-Methyl-2-Pentanone	0.220	0.227	0.239	0.267	0.264	0.238	0.243	7.9
Toluene	0.887	0.888	0.852	0.965	0.936	0.897	0.904	4.4

* 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,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49

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

LAB FILE ID: RRF005 = VY021309.D RRF010 = VY021310.D RRF020 = VY021311.D
RRF050 = VY021312.D RRF150 = VY021314.D RRF100 = VY021316.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.438	0.436	0.434	0.515	0.509	0.474	0.468	8
cis-1,3-Dichloropropene	0.541	0.526	0.528	0.591	0.581	0.546	0.552	5
1,1,2-Trichloroethane	0.250	0.251	0.238	0.267	0.254	0.237	0.249	4.4
2-Hexanone	0.133	0.146	0.155	0.183	0.178	0.162	0.159	11.9
Dibromochloromethane	0.340	0.325	0.322	0.368	0.352	0.332	0.340	5.2
1,2-Dibromoethane	0.234	0.231	0.226	0.254	0.245	0.227	0.236	4.7
Tetrachloroethene	0.405	0.380	0.351	0.389	0.386	0.355	0.378	5.5
Chlorobenzene	1.171	1.111	1.039	1.176	1.159	1.078	1.122	5
Ethyl Benzene	1.938	1.941	1.826	2.130	2.115	1.979	1.988	5.8
m/p-Xylenes	0.735	0.738	0.696	0.802	0.783	0.733	0.748	5.1
o-Xylene	0.689	0.675	0.648	0.758	0.739	0.694	0.701	5.9
Styrene	1.081	1.128	1.091	1.277	1.257	1.159	1.166	7.2
Bromoform	0.221	0.221	0.211	0.246	0.236	0.214	0.225	5.9
Isopropylbenzene	3.744	3.605	3.437	3.976	4.009	3.783	3.759	5.8
1,1,2,2-Tetrachloroethane	0.700	0.649	0.621	0.697	0.689	0.624	0.663	5.5
1,3-Dichlorobenzene	1.812	1.729	1.598	1.792	1.777	1.668	1.730	4.8
1,4-Dichlorobenzene	1.825	1.710	1.593	1.751	1.744	1.629	1.709	5
1,2-Dichlorobenzene	1.599	1.499	1.408	1.575	1.564	1.446	1.515	5.1
1,2-Dibromo-3-Chloropropane	0.103	0.097	0.099	0.113	0.115	0.102	0.105	7.2
1,2,4-Trichlorobenzene	0.906	0.848	0.822	0.968	1.053	0.950	0.925	9.2
1,2,3-Trichlorobenzene	0.742	0.719	0.698	0.824	0.896	0.809	0.781	9.6
1,2-Dichloroethane-d4	0.681	0.510	0.548	0.551	0.566	0.547	0.567	10.3
Dibromofluoromethane	0.370	0.299	0.317	0.325	0.334	0.322	0.328	7.2
Toluene-d8	1.420	1.158	1.230	1.251	1.290	1.253	1.267	6.8
4-Bromofluorobenzene	0.490	0.387	0.404	0.423	0.435	0.420	0.426	8.2

* 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 CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date/Time: 02/27/2025 10:13

Lab File ID: VY021346.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.474	0.413		-12.87	20
Chloromethane	0.612	0.531	0.1	-13.23	20
Vinyl Chloride	0.601	0.554		-7.82	20
Bromomethane	0.399	0.355		-11.03	20
Chloroethane	0.373	0.354		-5.09	20
Trichlorofluoromethane	0.908	0.857		-5.62	20
1,1,2-Trichlorotrifluoroethane	0.525	0.483		-8	20
1,1-Dichloroethene	0.503	0.467		-7.16	20
Acetone	0.109	0.108		-0.92	20
Carbon Disulfide	1.671	1.540		-7.84	20
Methyl tert-butyl Ether	1.329	1.304		-1.88	20
Methyl Acetate	0.266	0.254		-4.51	20
Methylene Chloride	0.588	0.523		-11.05	20
trans-1,2-Dichloroethene	0.554	0.533		-3.79	20
1,1-Dichloroethane	1.040	0.977	0.1	-6.06	20
Cyclohexane	1.000	0.858		-14.2	20
2-Butanone	0.164	0.156		-4.88	20
Carbon Tetrachloride	0.554	0.524		-5.41	20
cis-1,2-Dichloroethene	0.632	0.615		-2.69	20
Bromochloromethane	0.460	0.454		-1.3	20
Chloroform	1.054	0.999		-5.22	20
1,1,1-Trichloroethane	0.960	0.904		-5.83	20
Methylcyclohexane	0.623	0.568		-8.83	20
Benzene	1.456	1.381		-5.15	20
1,2-Dichloroethane	0.413	0.403		-2.42	20
Trichloroethene	0.364	0.350		-3.85	20
1,2-Dichloropropane	0.350	0.331		-5.43	20
Bromodichloromethane	0.511	0.501		-1.96	20
4-Methyl-2-Pentanone	0.243	0.236		-2.88	20
Toluene	0.904	0.878		-2.88	20
t-1,3-Dichloropropene	0.468	0.463		-1.07	20
cis-1,3-Dichloropropene	0.552	0.535		-3.08	20
1,1,2-Trichloroethane	0.249	0.238		-4.42	20
2-Hexanone	0.159	0.157		-1.26	20
Dibromochloromethane	0.340	0.334		-1.76	20
1,2-Dibromoethane	0.236	0.228		-3.39	20
Tetrachloroethene	0.378	0.347		-8.2	20
Chlorobenzene	1.122	1.069	0.3	-4.72	20

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

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date/Time: 02/27/2025 10:13

Lab File ID: VY021346.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.988	1.908		-4.02	20
m/p-Xylenes	0.748	0.712		-4.81	20
o-Xylene	0.701	0.674		-3.85	20
Styrene	1.166	1.136		-2.57	20
Bromoform	0.225	0.221	0.1	-1.78	20
Isopropylbenzene	3.759	3.639		-3.19	20
1,1,2,2-Tetrachloroethane	0.663	0.638	0.3	-3.77	20
1,3-Dichlorobenzene	1.730	1.628		-5.9	20
1,4-Dichlorobenzene	1.709	1.598		-6.49	20
1,2-Dichlorobenzene	1.515	1.449		-4.36	20
1,2-Dibromo-3-Chloropropane	0.105	0.099		-5.71	20
1,2,4-Trichlorobenzene	0.925	0.872		-5.73	20
1,2,3-Trichlorobenzene	0.781	0.739		-5.38	20
1,2-Dichloroethane-d4	0.567	0.558		-1.59	20
Dibromofluoromethane	0.328	0.334		1.83	20
Toluene-d8	1.267	1.261		-0.47	20
4-Bromofluorobenzene	0.426	0.425		-0.23	20

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

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date/Time: 02/28/2025 09:44

Lab File ID: VY021375.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.474	0.440		-7.17	20
Chloromethane	0.612	0.566	0.1	-7.52	20
Vinyl Chloride	0.601	0.616		2.5	20
Bromomethane	0.399	0.411		3.01	20
Chloroethane	0.373	0.400		7.24	20
Trichlorofluoromethane	0.908	0.936		3.08	20
1,1,2-Trichlorotrifluoroethane	0.525	0.511		-2.67	20
1,1-Dichloroethene	0.503	0.487		-3.18	20
Acetone	0.109	0.132		21.1	20
Carbon Disulfide	1.671	1.585		-5.15	20
Methyl tert-butyl Ether	1.329	1.304		-1.88	20
Methyl Acetate	0.266	0.247		-7.14	20
Methylene Chloride	0.588	0.547		-6.97	20
trans-1,2-Dichloroethene	0.554	0.549		-0.9	20
1,1-Dichloroethane	1.040	1.009	0.1	-2.98	20
Cyclohexane	1.000	0.868		-13.2	20
2-Butanone	0.164	0.166		1.22	20
Carbon Tetrachloride	0.554	0.578		4.33	20
cis-1,2-Dichloroethene	0.632	0.635		0.47	20
Bromochloromethane	0.460	0.462		0.44	20
Chloroform	1.054	1.043		-1.04	20
1,1,1-Trichloroethane	0.960	0.951		-0.94	20
Methylcyclohexane	0.623	0.607		-2.57	20
Benzene	1.456	1.487		2.13	20
1,2-Dichloroethane	0.413	0.436		5.57	20
Trichloroethene	0.364	0.375		3.02	20
1,2-Dichloropropane	0.350	0.356		1.71	20
Bromodichloromethane	0.511	0.537		5.09	20
4-Methyl-2-Pentanone	0.243	0.242		-0.41	20
Toluene	0.904	0.955		5.64	20
t-1,3-Dichloropropene	0.468	0.488		4.27	20
cis-1,3-Dichloropropene	0.552	0.565		2.36	20
1,1,2-Trichloroethane	0.249	0.254		2.01	20
2-Hexanone	0.159	0.168		5.66	20
Dibromochloromethane	0.340	0.362		6.47	20
1,2-Dibromoethane	0.236	0.241		2.12	20
Tetrachloroethene	0.378	0.394		4.23	20
Chlorobenzene	1.122	1.154	0.3	2.85	20

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

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date/Time: 02/28/2025 09:44

Lab File ID: VY021375.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.988	2.041		2.67	20
m/p-Xylenes	0.748	0.775		3.61	20
o-Xylene	0.701	0.722		3	20
Styrene	1.166	1.235		5.92	20
Bromoform	0.225	0.232	0.1	3.11	20
Isopropylbenzene	3.759	3.861		2.71	20
1,1,2,2-Tetrachloroethane	0.663	0.654	0.3	-1.36	20
1,3-Dichlorobenzene	1.730	1.775		2.6	20
1,4-Dichlorobenzene	1.709	1.709		0	20
1,2-Dichlorobenzene	1.515	1.525		0.66	20
1,2-Dibromo-3-Chloropropane	0.105	0.101		-3.81	20
1,2,4-Trichlorobenzene	0.925	0.898		-2.92	20
1,2,3-Trichlorobenzene	0.781	0.738		-5.51	20
1,2-Dichloroethane-d4	0.567	0.567		0	20
Dibromofluoromethane	0.328	0.351		7.01	20
Toluene-d8	1.267	1.327		4.74	20
4-Bromofluorobenzene	0.426	0.441		3.52	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\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Time: Feb 28 00:42:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	96952	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	160918	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	115865	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	27807	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	63167	57.433	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.860%			
35) Dibromofluoromethane	7.634	113	58988	55.913	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 111.820%			
50) Toluene-d8	10.103	98	191349	46.931	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 93.860%			
62) 4-Bromofluorobenzene	12.408	95	35465	25.846	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 51.700%			
Target Compounds						Qvalue
16) Acetone	3.866	43	3021	14.319	ug/l	97

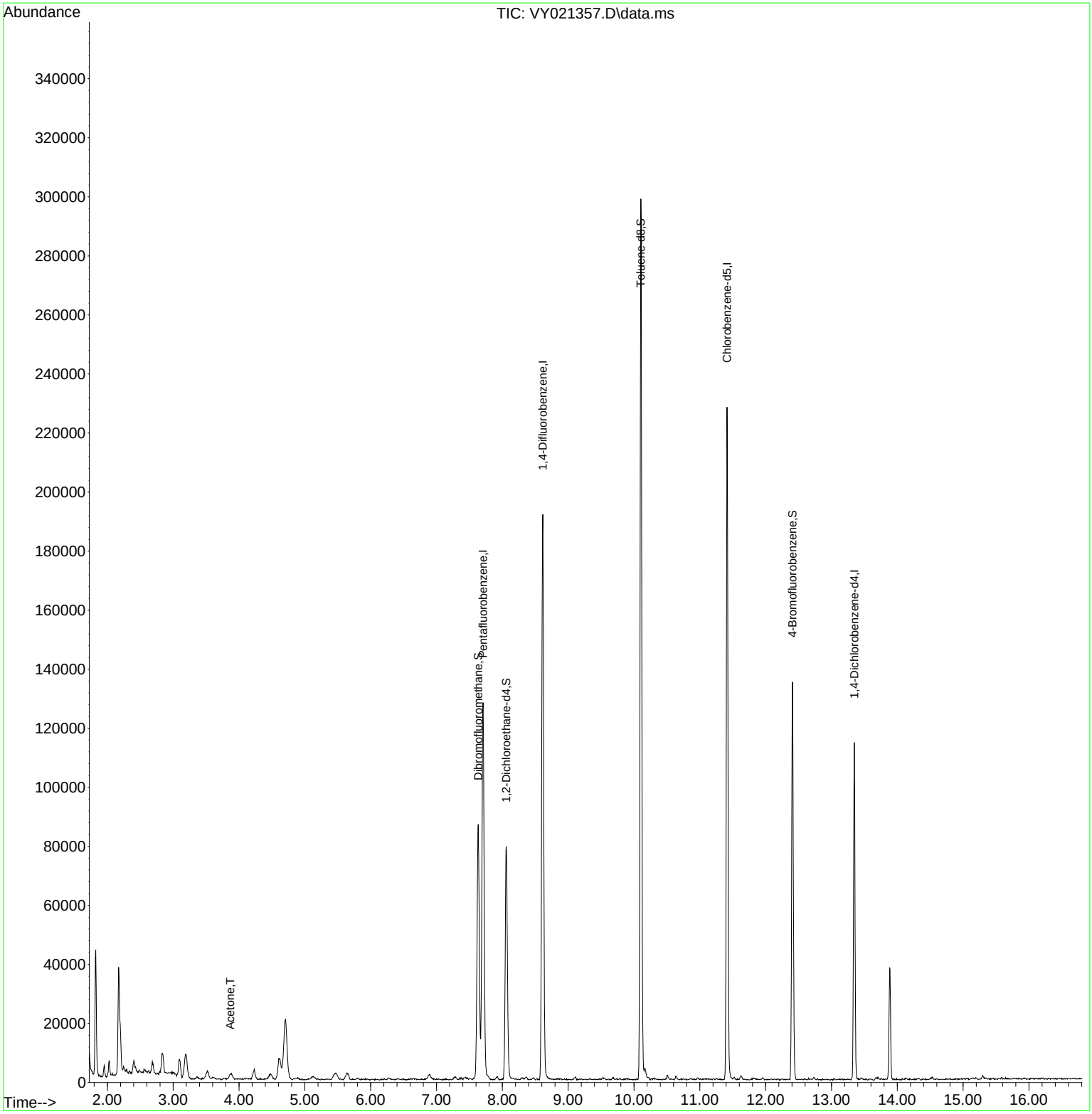
(#) = qualifier out of range (m) = manual integration (+) = signals summed

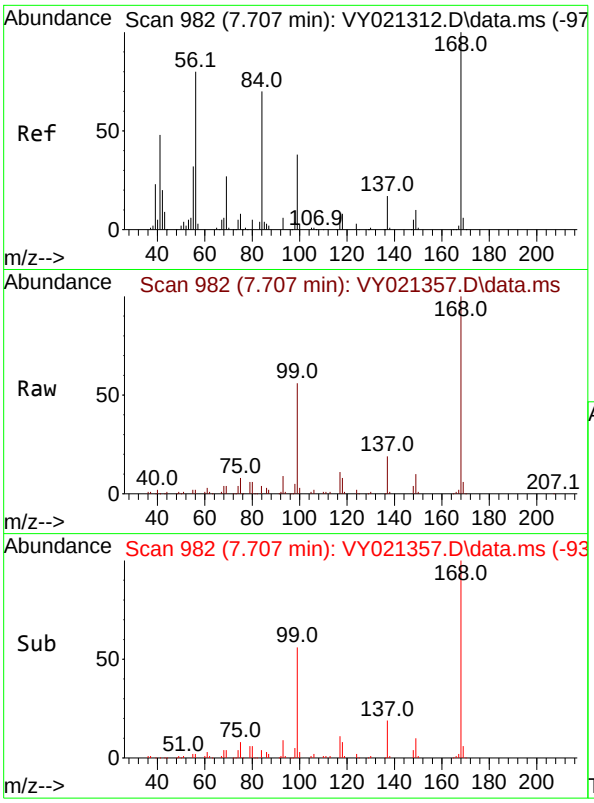
Sample Results: **VY021357.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Time: Feb 28 00:42:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



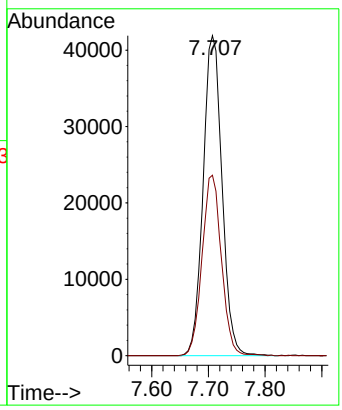


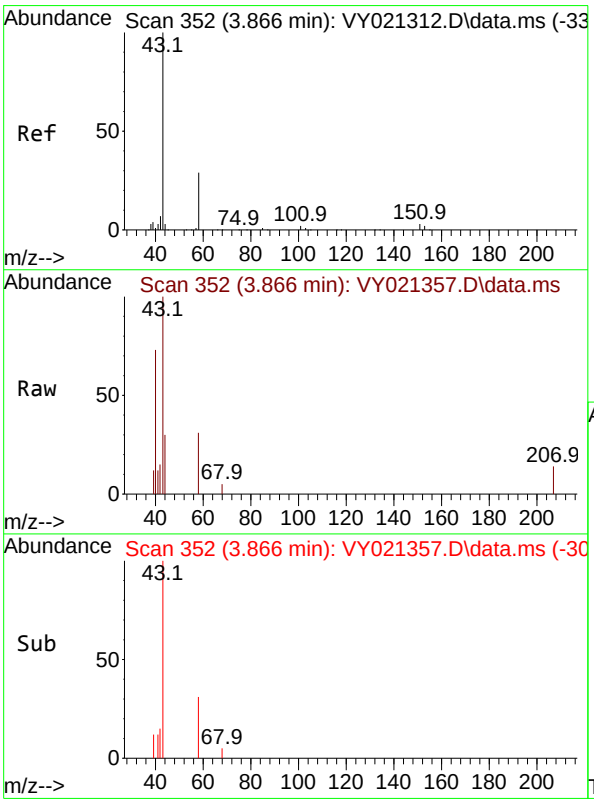
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion:168 Resp: 96952

Ion	Ratio	Lower	Upper
168	100		
99	56.4	47.1	70.7

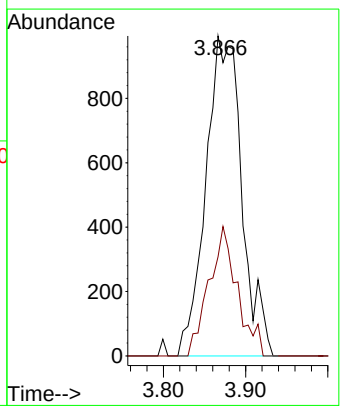


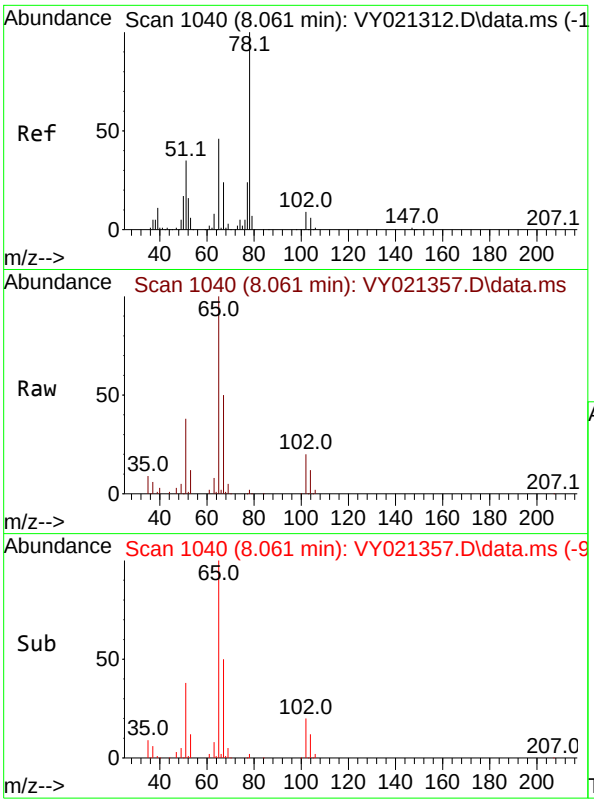


#16
Acetone
Concen: 14.319 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion: 43 Resp: 3021

Ion	Ratio	Lower	Upper
43	100		
58	31.0	23.5	35.3



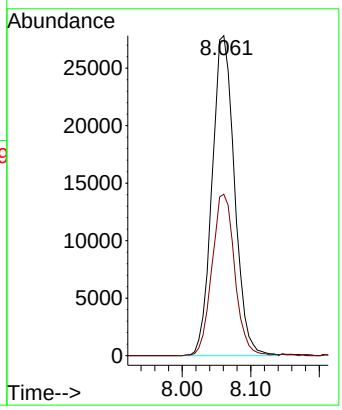


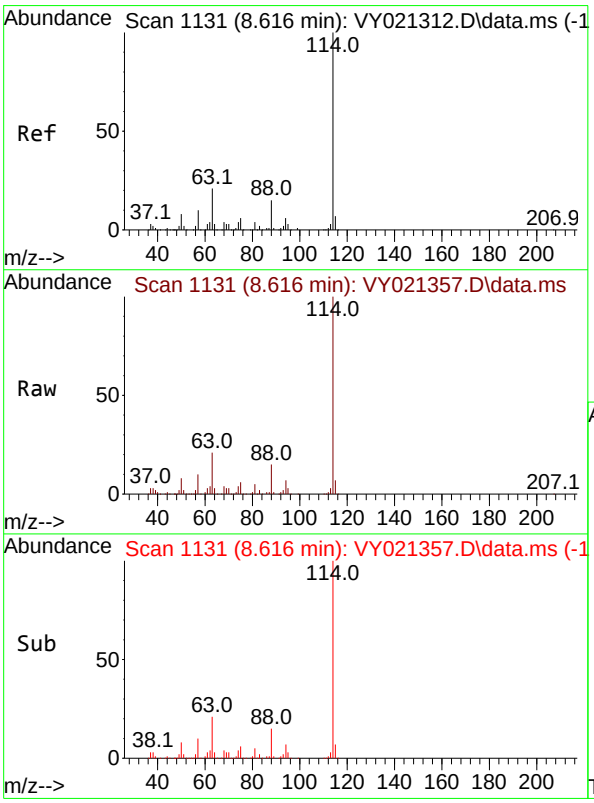
#33
1,2-Dichloroethane-d4
Concen: 57.433 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion: 65 Resp: 63167

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.6

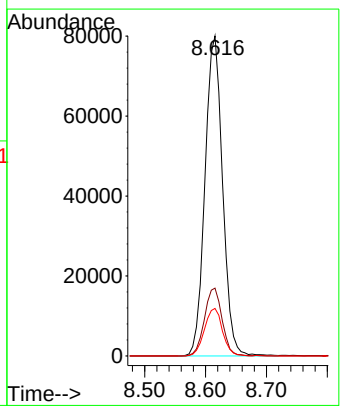


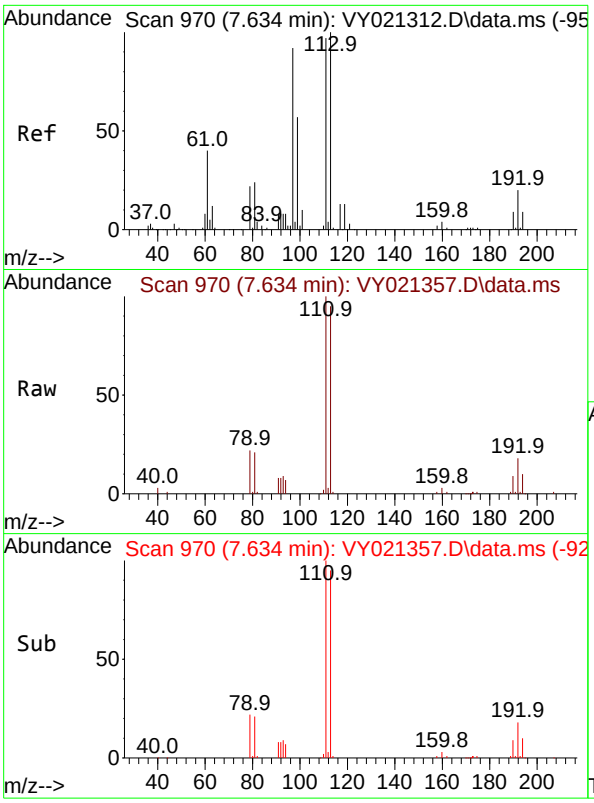


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion:114 Resp: 160918

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.2
88	14.9	0.0	29.8



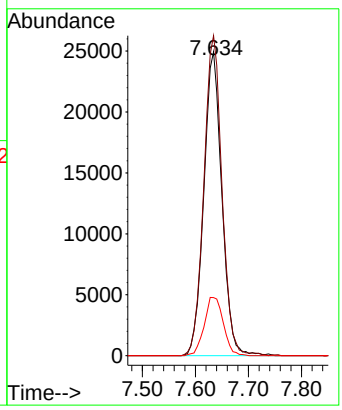


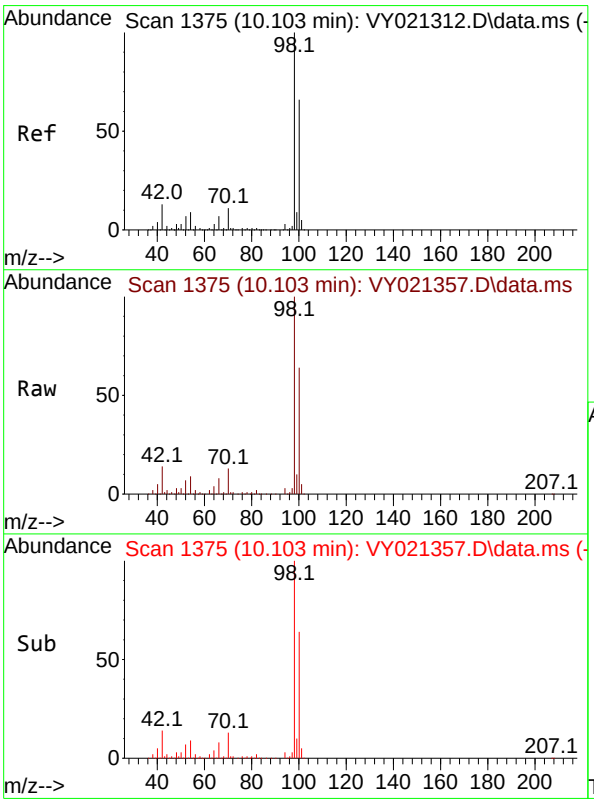
#35
Dibromofluoromethane
Concen: 55.913 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion:113 Resp: 58988

Ion	Ratio	Lower	Upper
113	100		
111	105.7	81.0	121.6
192	20.3	15.8	23.8

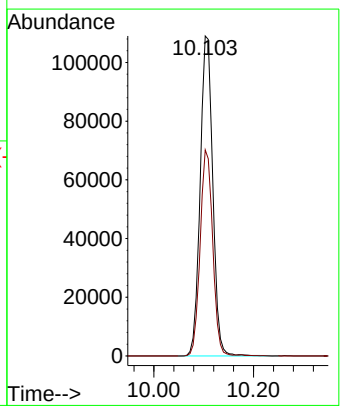




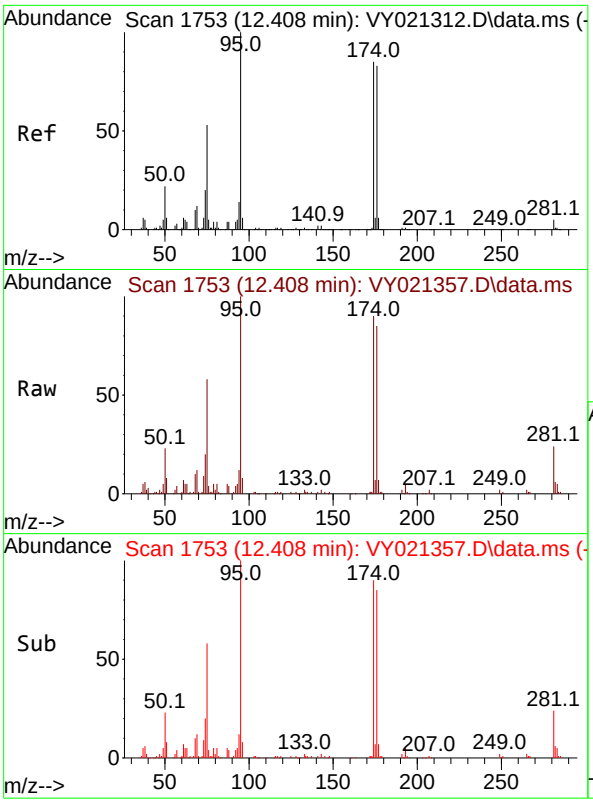
#50
Toluene-d8
Concen: 46.931 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion: 98 Resp: 191349

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.4	78.6



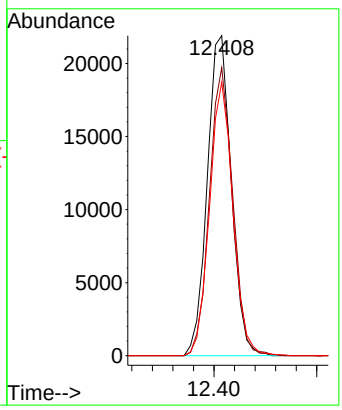
Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

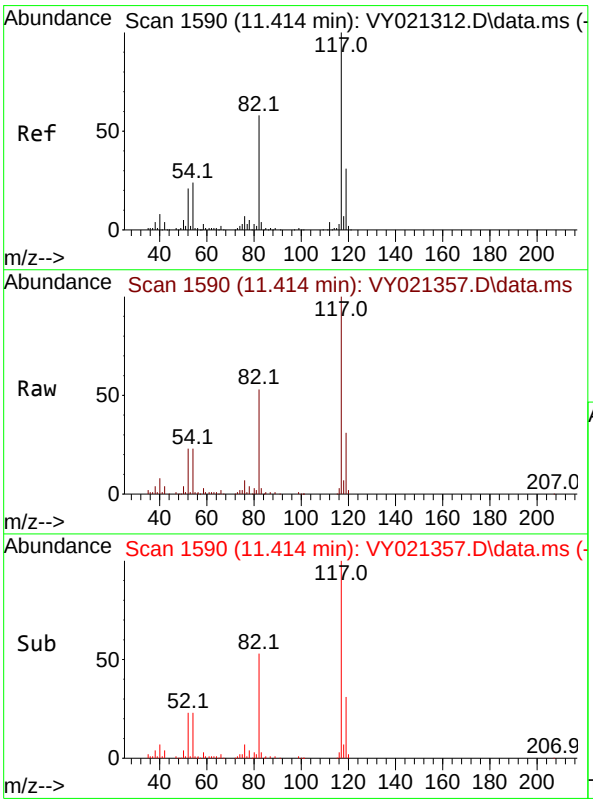


#62
4-Bromofluorobenzene
Concen: 25.846 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion: 95 Resp: 35465

Ion	Ratio	Lower	Upper
95	100		
174	87.4	0.0	168.0
176	83.2	0.0	162.6

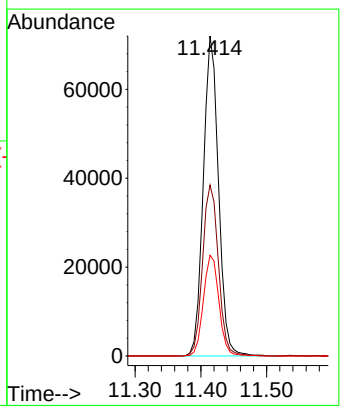


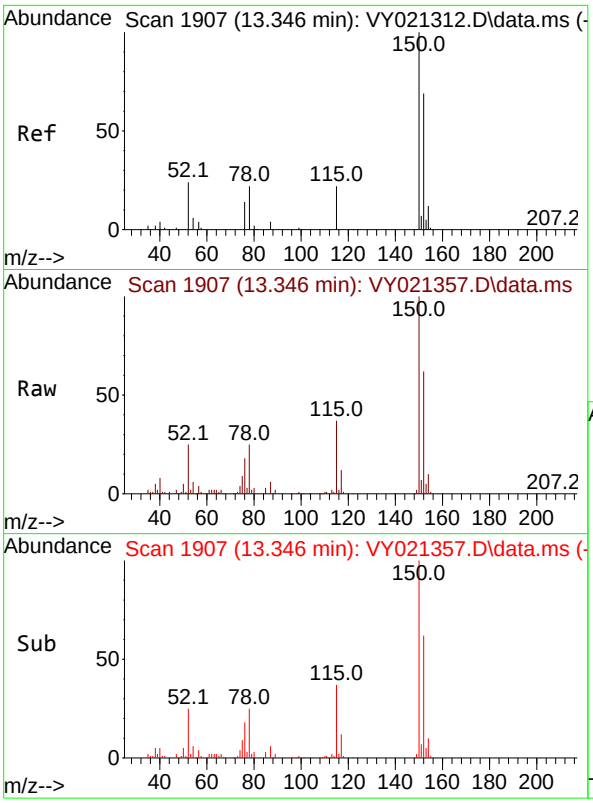


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion:117 Resp: 115865

Ion	Ratio	Lower	Upper
117	100		
82	53.4	46.2	69.4
119	31.5	24.9	37.3



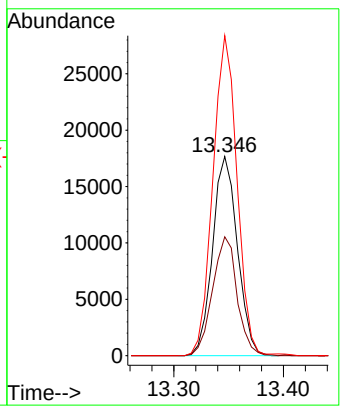


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion:152 Resp: 27807

Ion	Ratio	Lower	Upper
152	100		
115	58.9	29.3	88.0
150	156.4	0.0	347.4



Sample Results: **VY021357.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

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\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021357.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	11	17	24	rVB	42677	61208	11.72%	2.191%
2	1.952	33	38	43	rVB2	4032	5626	1.08%	0.201%
3	2.025	45	50	55	rBV2	5368	8387	1.61%	0.300%
4	2.172	66	74	84	rBV2	36626	79223	15.17%	2.836%
5	2.403	107	112	115	rBV4	4501	8561	1.64%	0.306%
6	2.684	153	158	168	rVB3	4172	8646	1.66%	0.309%
7	2.830	178	182	189	rVB3	6569	14055	2.69%	0.503%
8	3.092	218	225	232	rVB6	6219	14806	2.84%	0.530%
9	3.190	232	241	255	rVB4	8511	28480	5.45%	1.019%
10	3.519	287	295	304	rVB6	2656	7189	1.38%	0.257%
11	4.232	404	412	420	rVB3	3544	8613	1.65%	0.308%
12	4.604	463	473	480	rBV3	7131	23801	4.56%	0.852%
13	4.708	480	490	507	rVB2	20475	75397	14.44%	2.699%
14	5.640	634	643	650	rBV7	2405	7899	1.51%	0.283%
15	7.634	959	970	976	rBV	86022	204047	39.08%	7.304%
16	7.707	976	982	994	rVB	126697	291244	55.78%	10.425%
17	8.061	1032	1040	1052	rBV	78794	182237	34.91%	6.523%
18	8.616	1122	1131	1147	rBV	191641	393162	75.31%	14.074%
19	10.103	1368	1375	1383	rBV	298382	522091	100.00%	18.689%
20	10.158	1383	1384	1391	rVB3	3193	5623	1.08%	0.201%
21	11.414	1583	1590	1600	rBV	227776	370476	70.96%	13.261%
22	12.408	1747	1753	1763	rBV2	134670	234116	44.84%	8.380%
23	13.346	1898	1907	1915	rBV	114295	176852	33.87%	6.331%
24	13.883	1989	1995	2003	rVB	38016	61886	11.85%	2.215%

Sum of corrected areas: 2793625

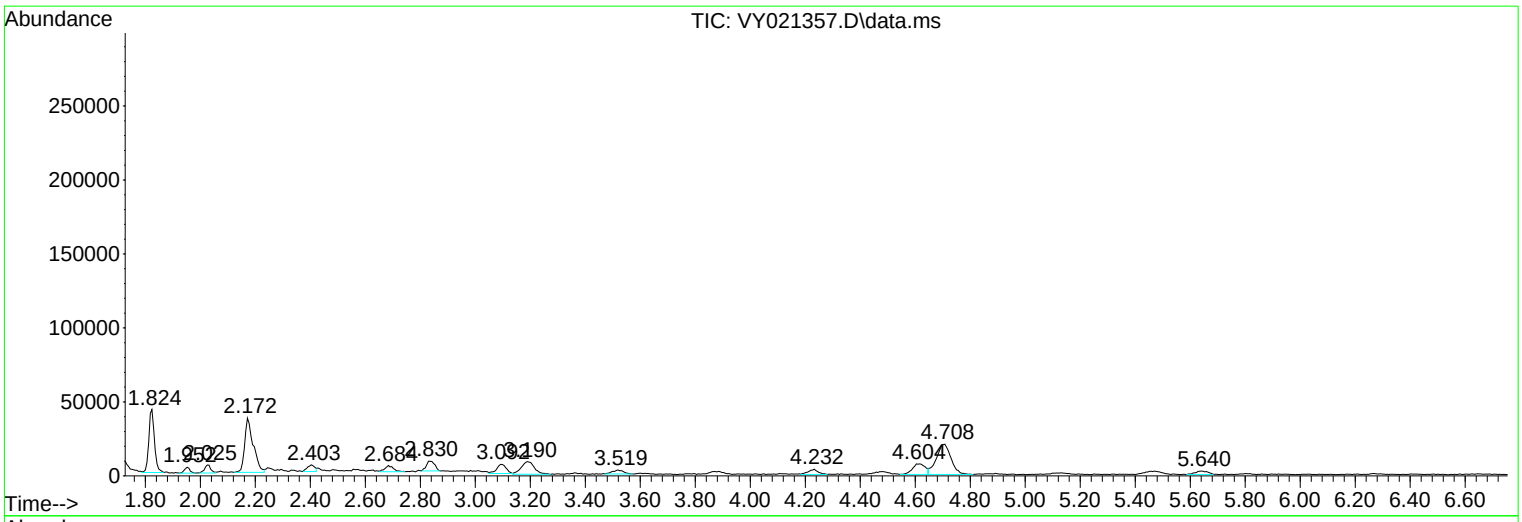
Sample Results: **VY021357.D**

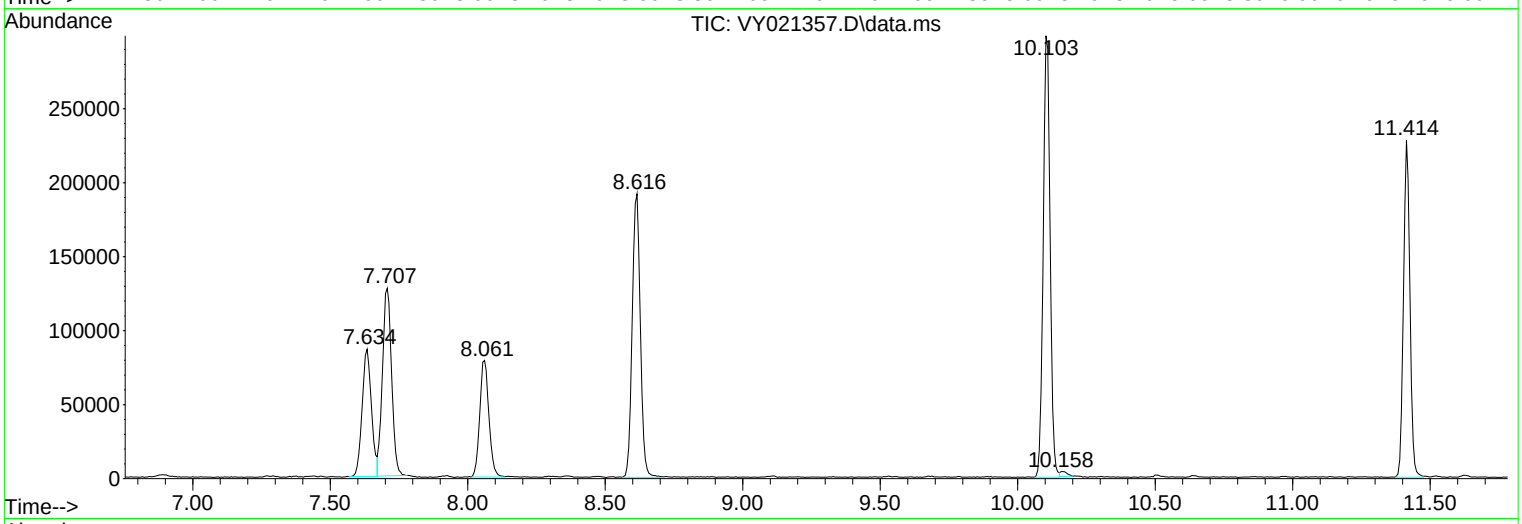
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

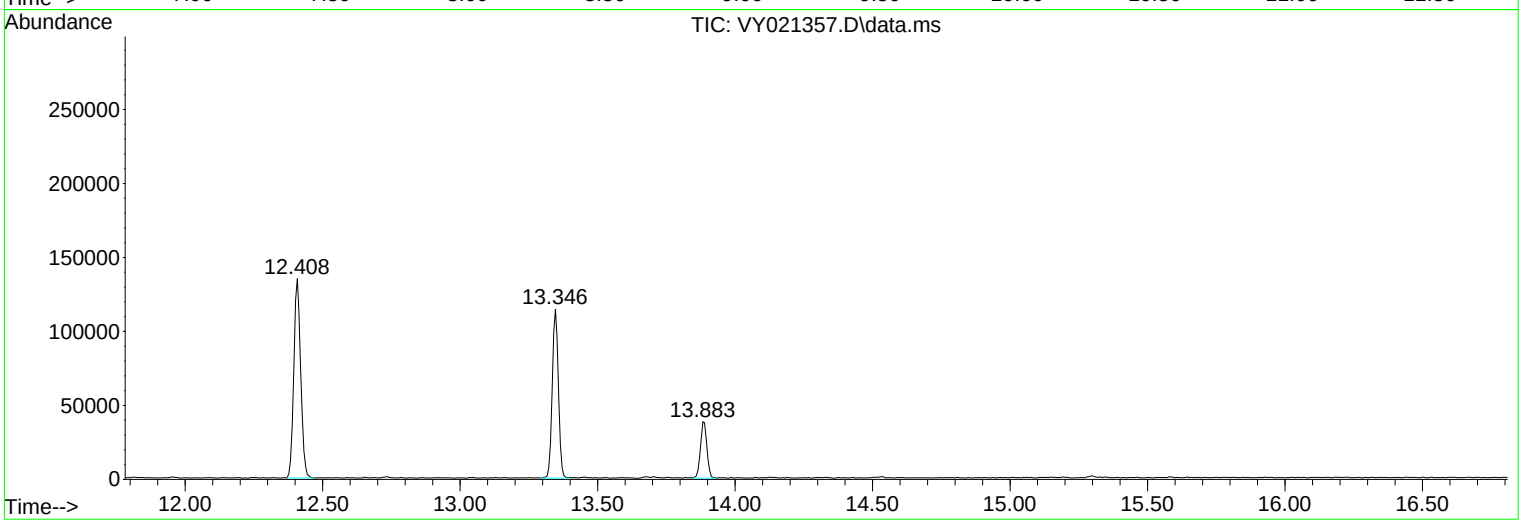
Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

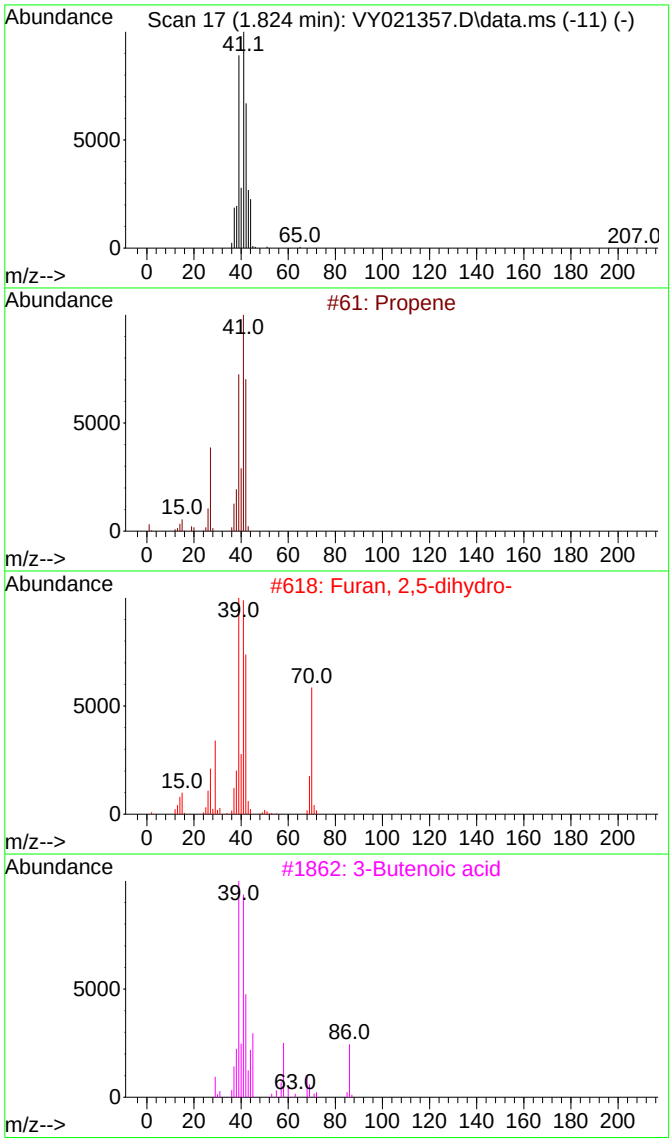
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

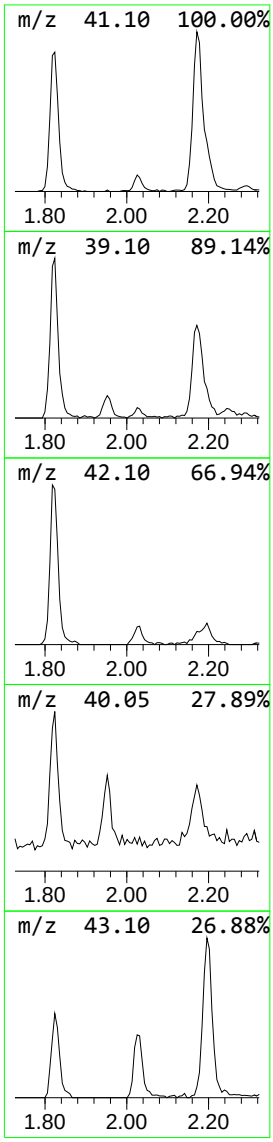
****

Peak Number 1 Propene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.824	10.51 ug/l	61208	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene	42	C3H6	000115-07-1	90
2	Furan, 2,5-dihydro-	70	C4H6O	001708-29-8	83
3	3-Butenoic acid	86	C4H6O2	000625-38-7	78
4	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	74
5	2-Butenal, (E)-	70	C4H6O	000123-73-9	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

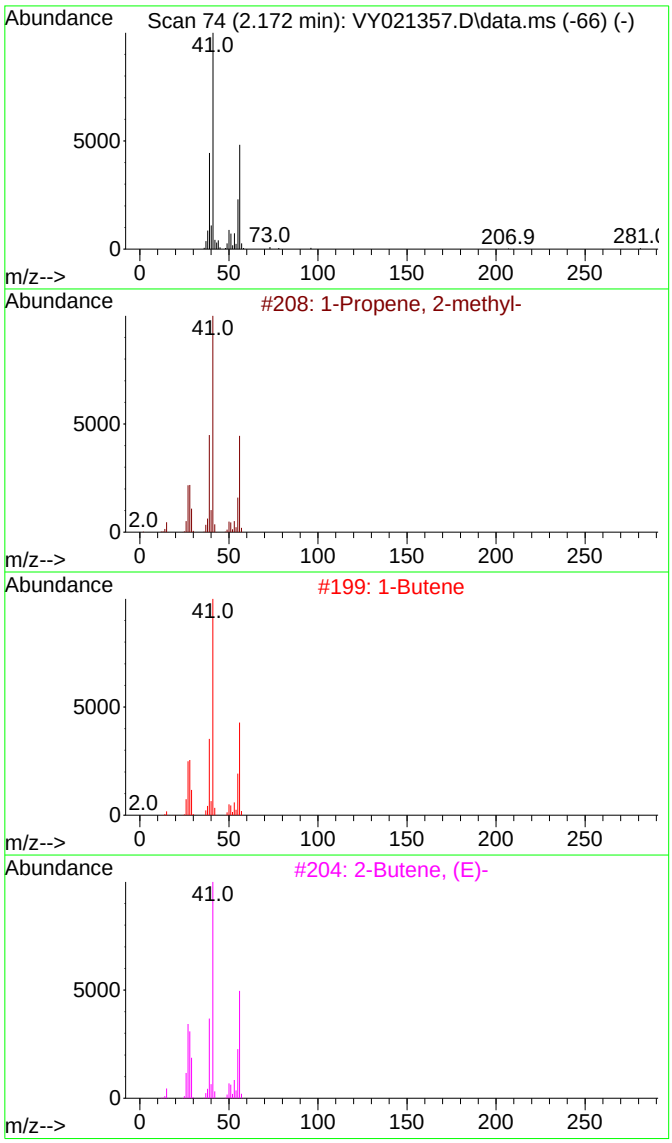
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

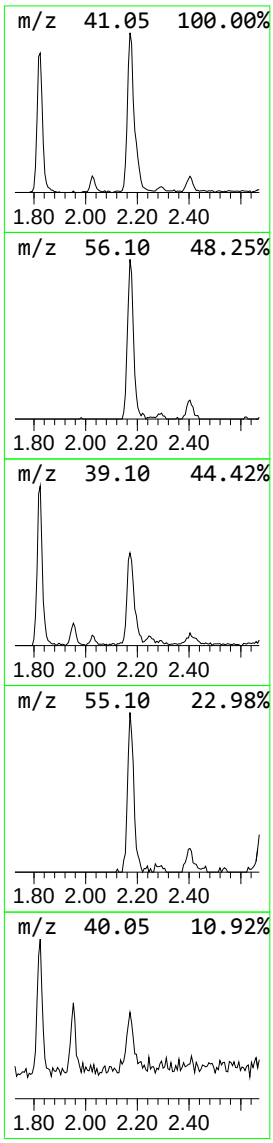
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 1-Propene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.172	13.60 ug/l	79223	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-	56	C4H8	000115-11-7	90
2	1-Butene	56	C4H8	000106-98-9	87
3	2-Butene, (E)-	56	C4H8	000624-64-6	80
4	2-Butene, (Z)-	56	C4H8	000590-18-1	80
5	2-Butene	56	C4H8	000107-01-7	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

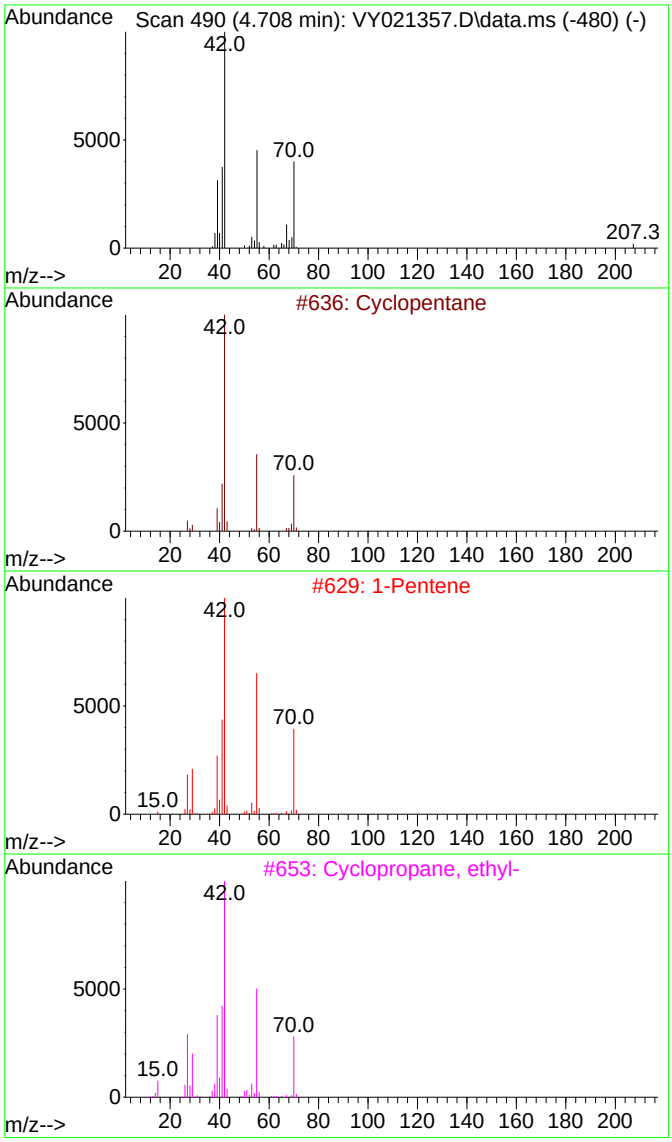
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

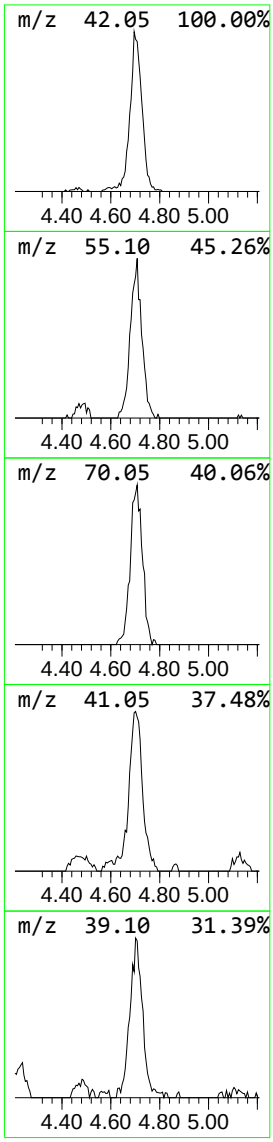
****

Peak Number 3 Cyclopentane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.708	12.94 ug/l	75397	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	72
2	1-Pentene	70	C5H10	000109-67-1	59
3	Cyclopropane, ethyl-	70	C5H10	001191-96-4	59
4	2(3H)-Furanone, dihydro-3,5-dime...	114	C6H10O2	005145-01-7	17
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

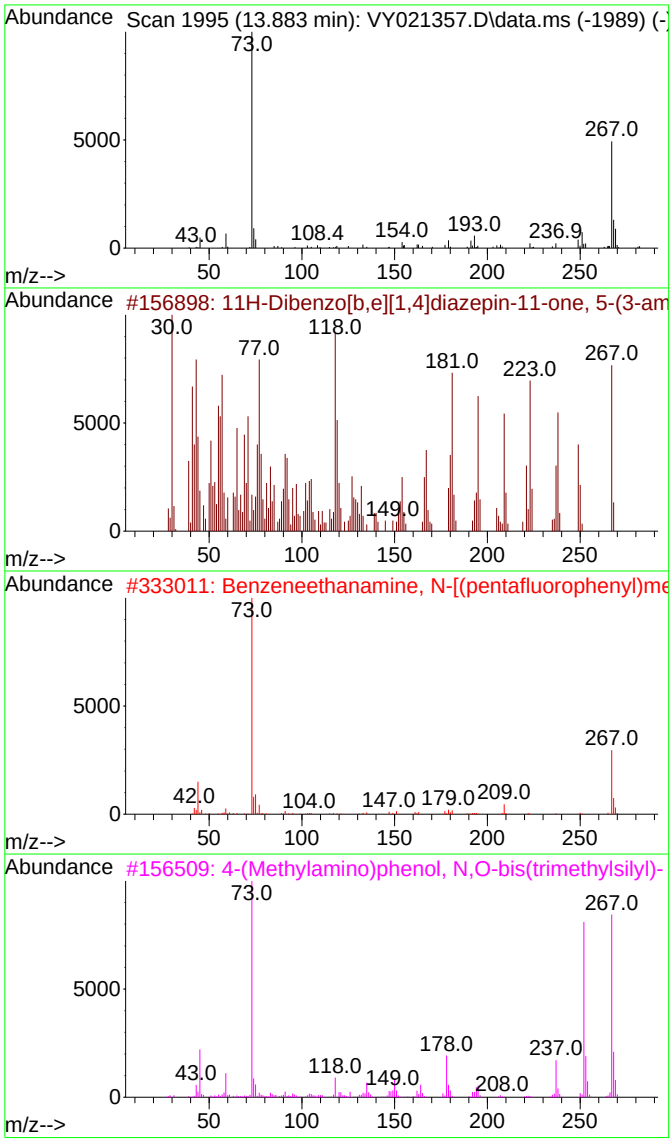
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

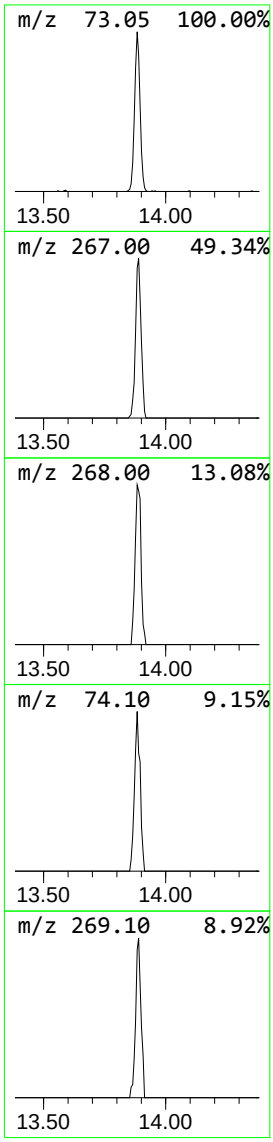
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.883	17.50 ug/l	61886	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	53
2	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	50
3	4-(Methylamino)phenol, N,O-bis(t...	267	C13H25NOSi2	1000471-13-0	50
4	Acridone, TMS derivative	267	C16H17NOSi	1000478-16-0	45
5	9-Acridinol, trimethylsilyl ether	267	C16H17NOSi	1000463-65-5	45





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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
Propene	1.824	10.5	ug/l	61208	1	7.707	291244	50.0
1-Propene, 2-me...	2.172	13.6	ug/l	79223	1	7.707	291244	50.0
Cyclopentane	4.708	12.9	ug/l	75397	1	7.707	291244	50.0
11H-Dibenzo[b,e...	13.883	17.5	ug/l	61886	4	13.346	176852	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021380.D
Acq On : 28 Feb 2025 13:20
Operator : SY/MD
Sample : Q1422-01RE
Misc : 3.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Quant Time: Feb 28 22:20:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	101641	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	171514	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	143270	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	51974	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	55863	48.449	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.900%			
35) Dibromofluoromethane	7.634	113	58329	51.873	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.740%			
50) Toluene-d8	10.103	98	201390	46.342	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 92.680%			
62) 4-Bromofluorobenzene	12.408	95	53808	36.791	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 73.580%			

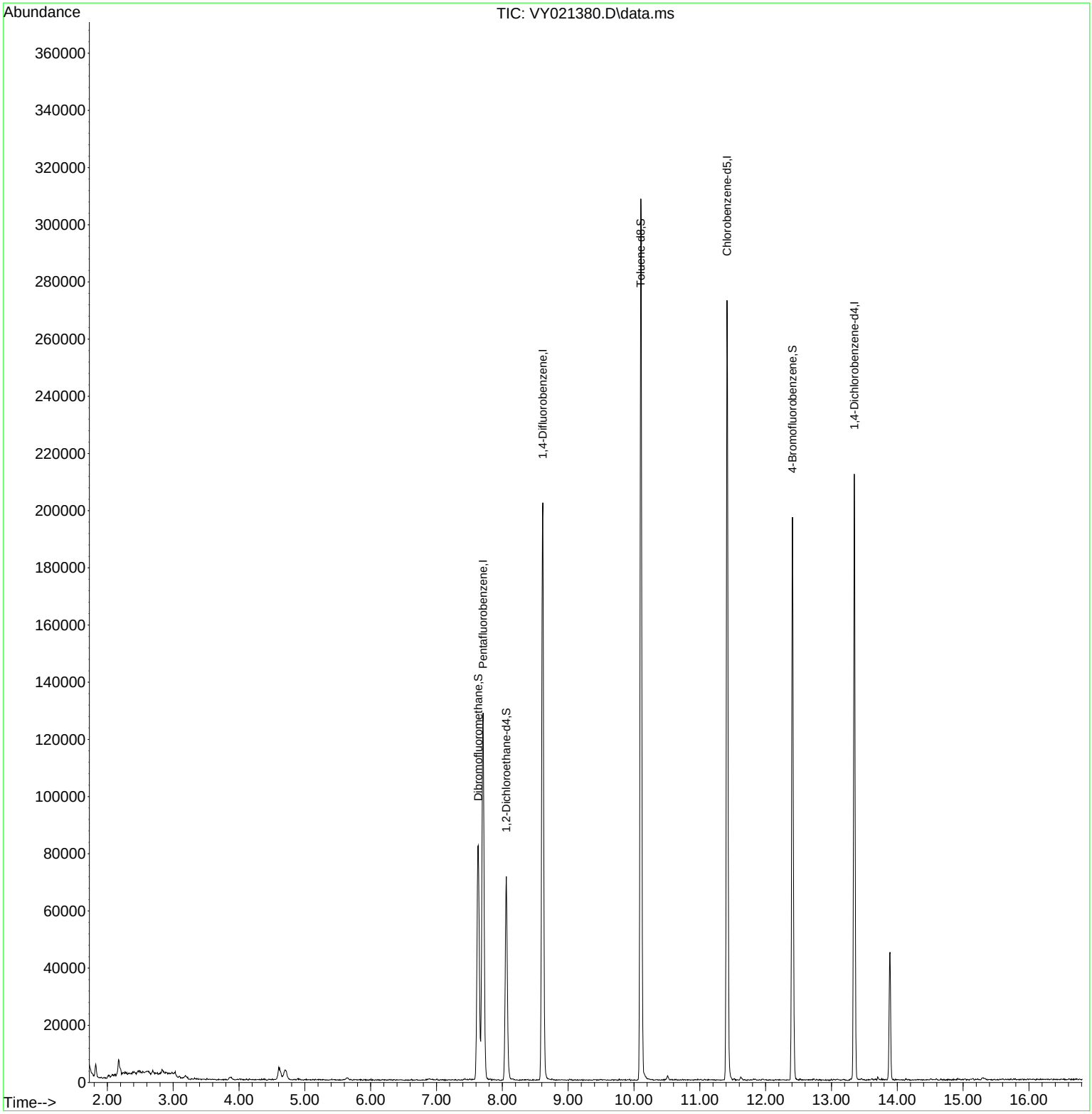
Target Compounds Qvalue

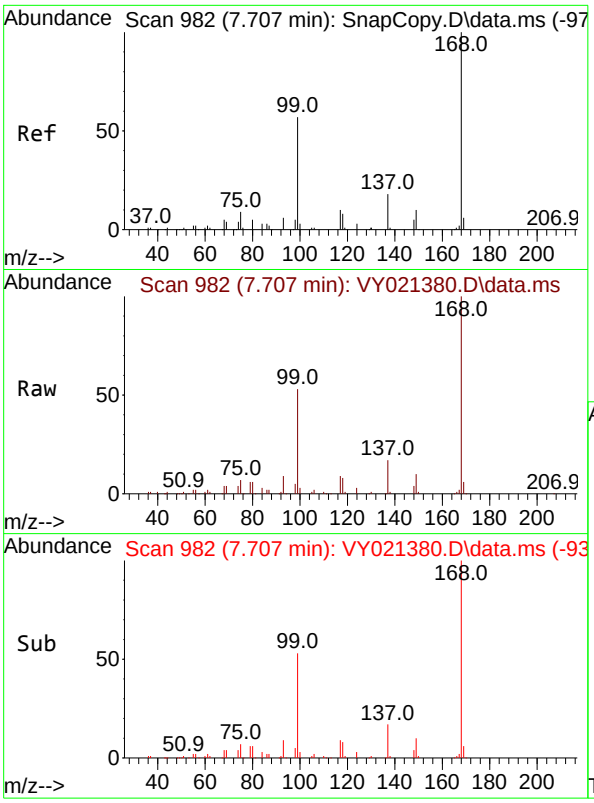
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021380.D
Acq On : 28 Feb 2025 13:20
Operator : SY/MD
Sample : Q1422-01RE
Misc : 3.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Quant Time: Feb 28 22:20:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



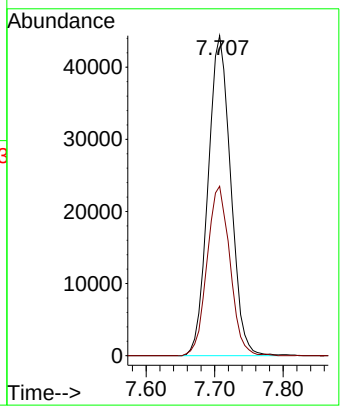


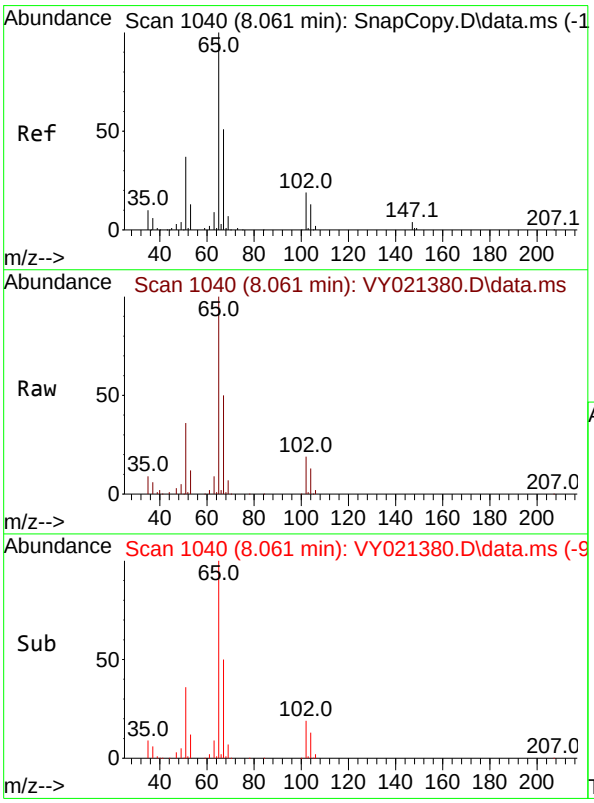
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion:168 Resp: 101641

Ion	Ratio	Lower	Upper
168	100		
99	52.9	47.1	70.7

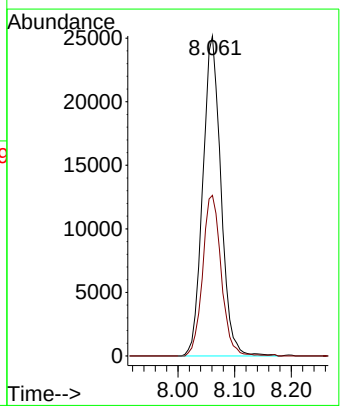


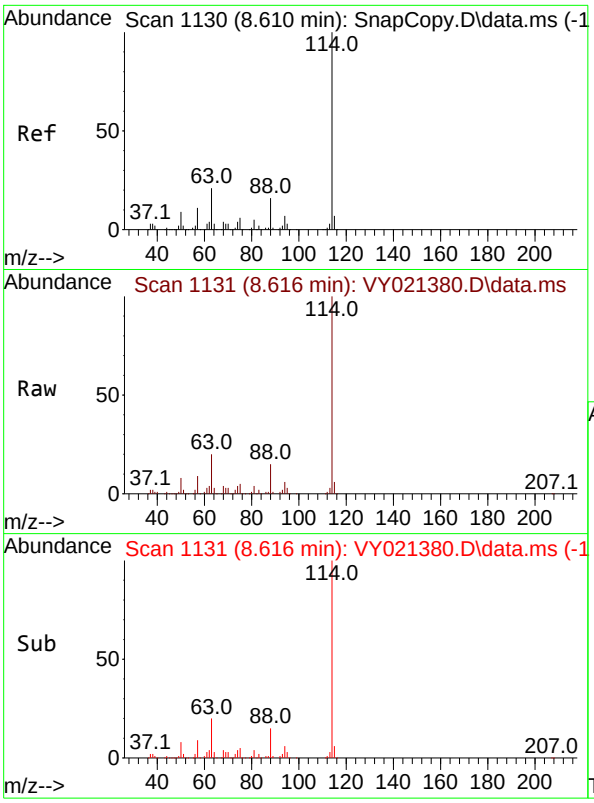


#33
1,2-Dichloroethane-d4
Concen: 48.449 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion: 65 Resp: 55863

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.6



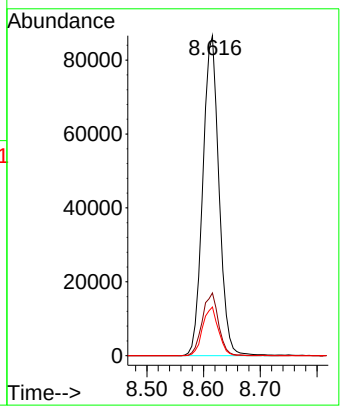


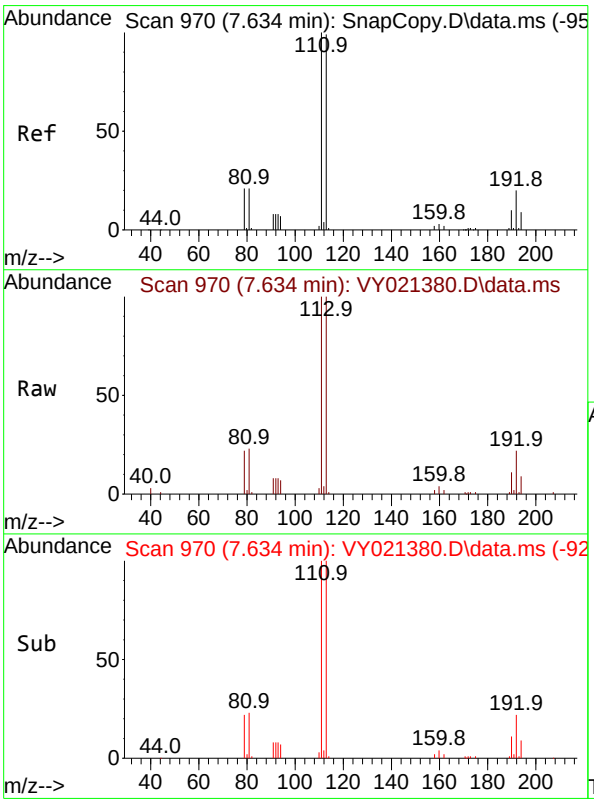
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion:114 Resp: 171514

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	42.2
88	15.2	0.0	29.8

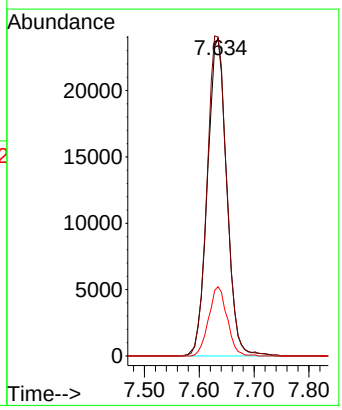


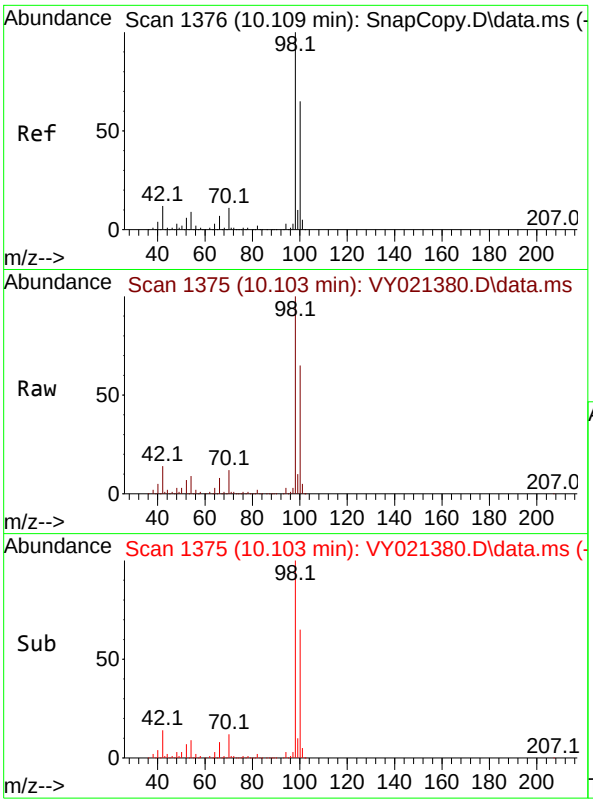


#35
Dibromofluoromethane
Concen: 51.873 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion:113 Resp: 58329

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.0	121.6
192	20.9	15.8	23.8



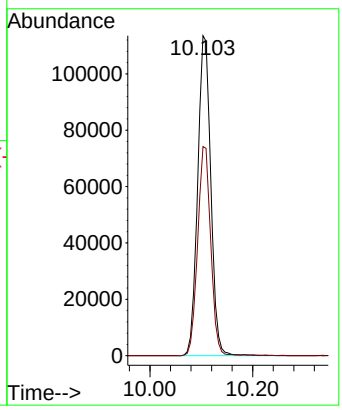


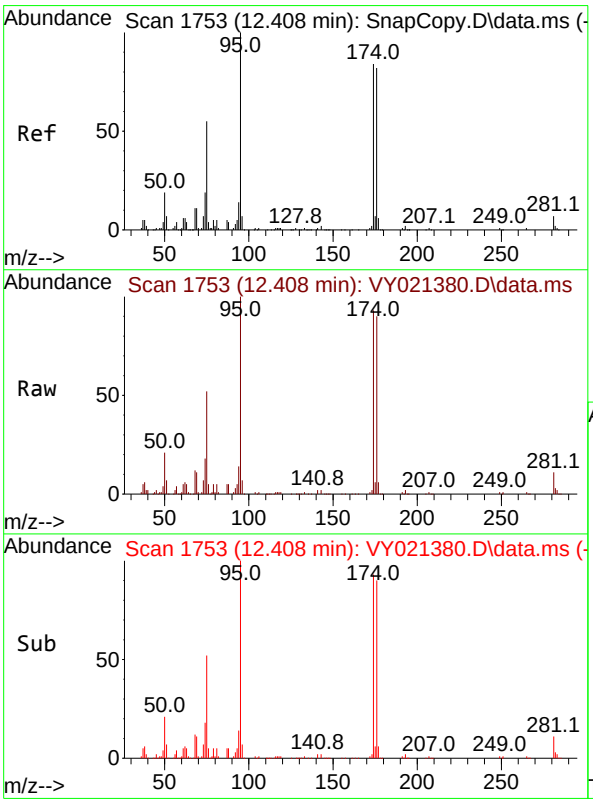
#50
Toluene-d8
Concen: 46.342 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion: 98 Resp: 201390

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.4	78.6

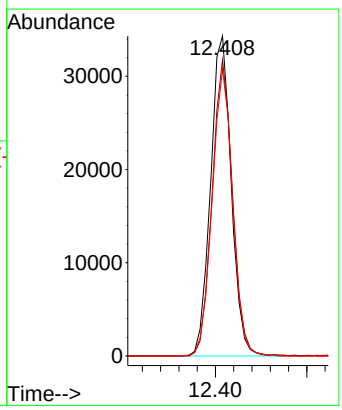


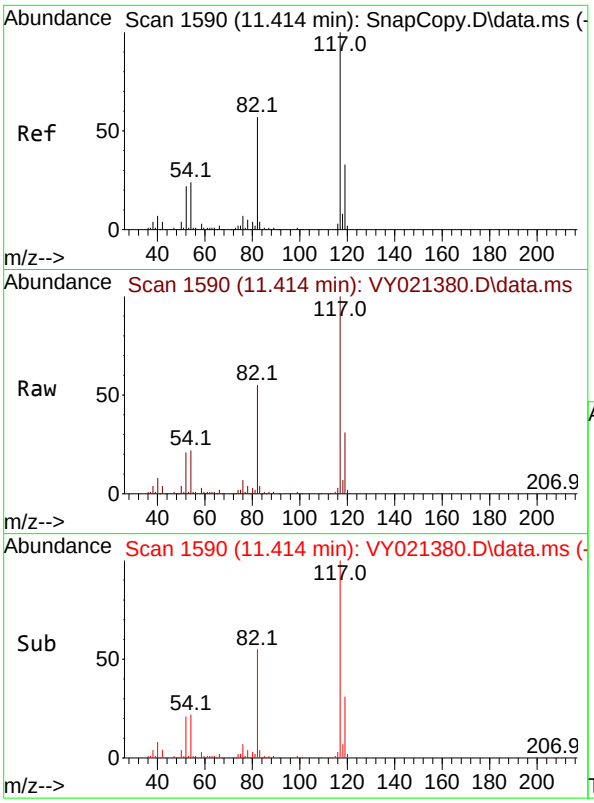


#62
4-Bromofluorobenzene
Concen: 36.791 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion: 95 Resp: 53808

Ion	Ratio	Lower	Upper
95	100		
174	91.4	0.0	168.0
176	89.2	0.0	162.6



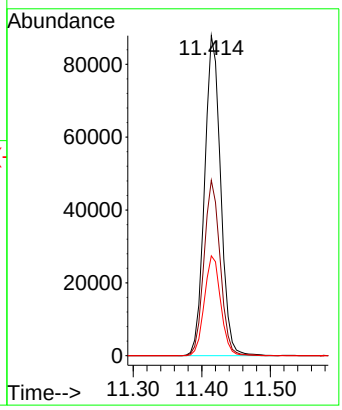


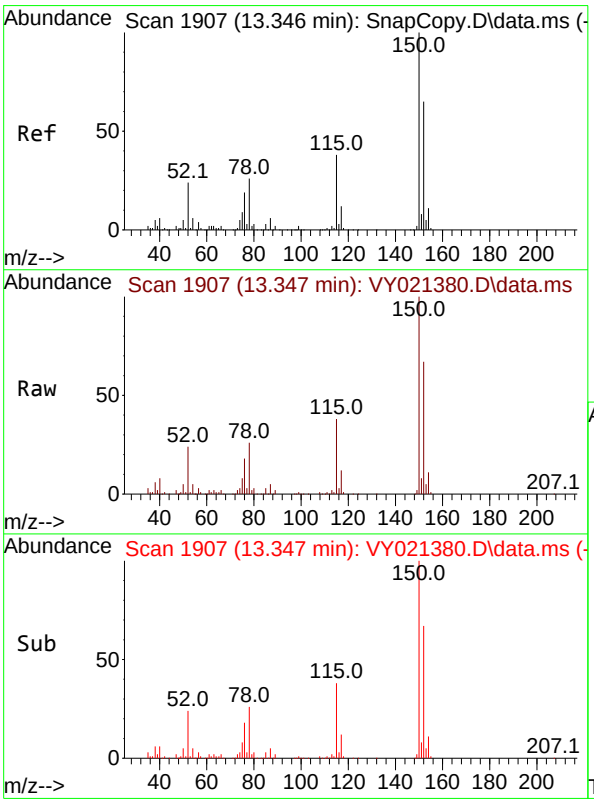
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion:117 Resp: 143270

Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.2	69.4
119	31.2	24.9	37.3

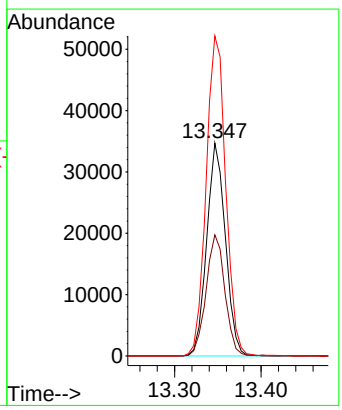




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion:152 Resp: 51974

Ion	Ratio	Lower	Upper
152	100		
115	57.4	29.3	88.0
150	157.0	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Quant Time: Feb 28 22:20:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

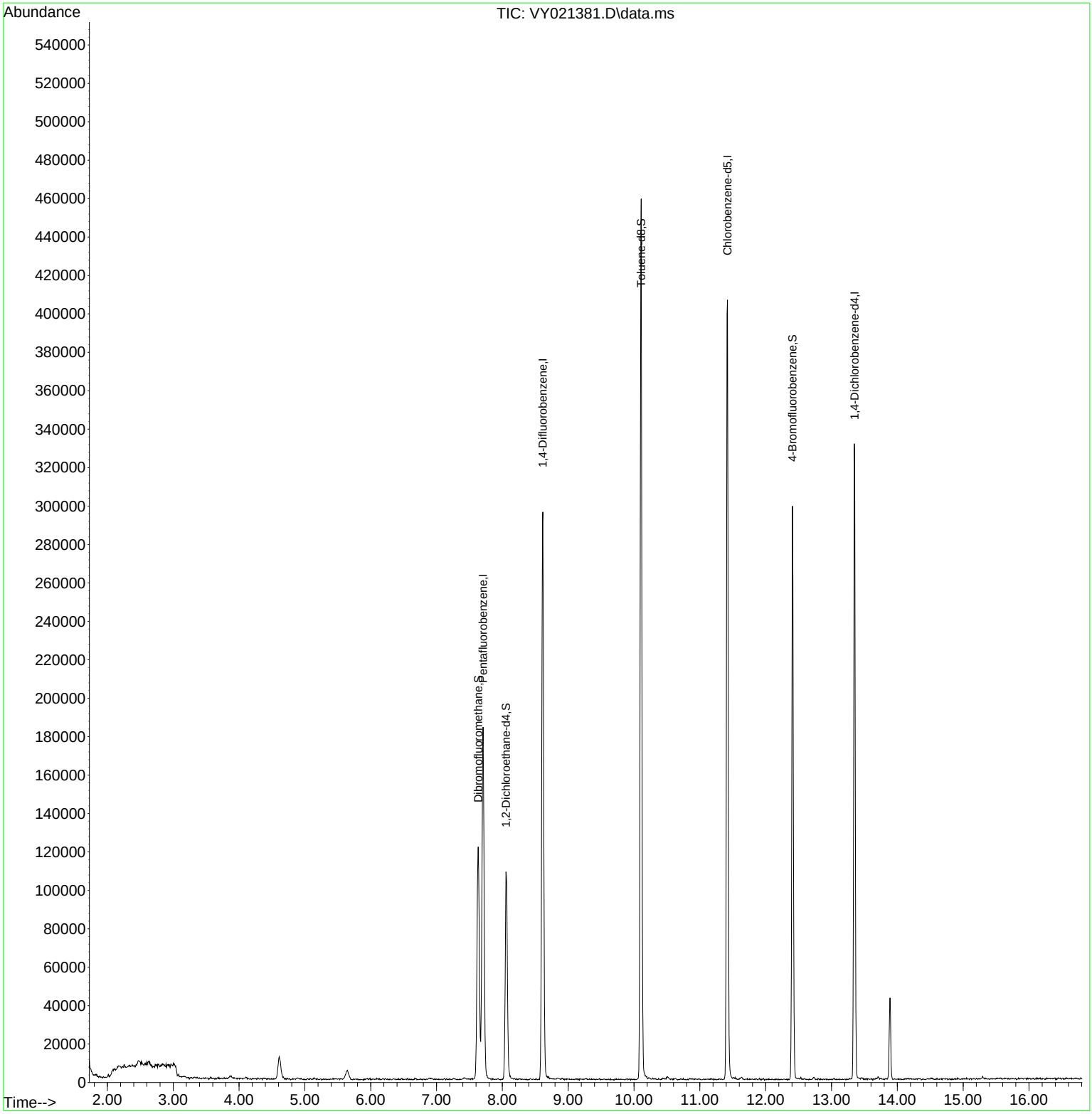
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	137587	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	246433	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	216935	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	82177	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.054	65	87320	55.946	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.900%			
35) Dibromofluoromethane	7.634	113	87068	53.891	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.780%			
50) Toluene-d8	10.109	98	296249	47.445	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.900%			
62) 4-Bromofluorobenzene	12.407	95	86661	41.240	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 82.480%			
Target Compounds						Qvalue

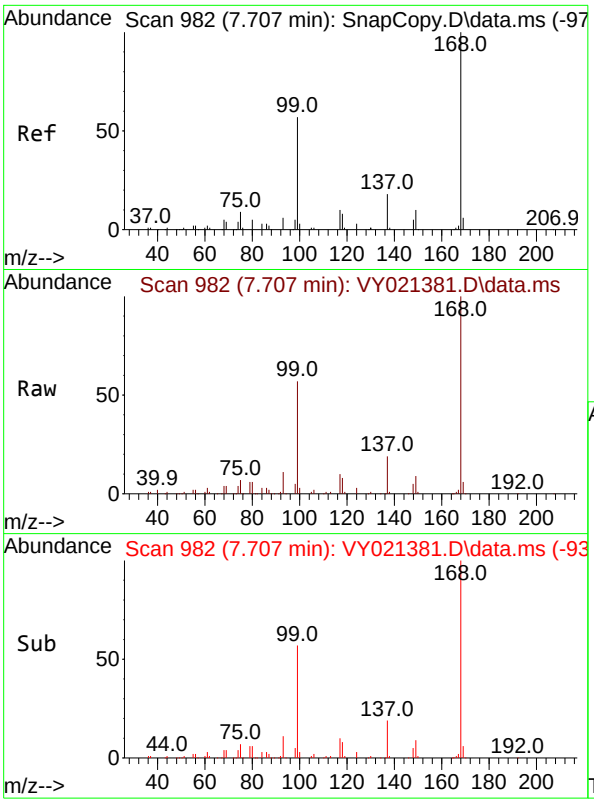
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Quant Time: Feb 28 22:20:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



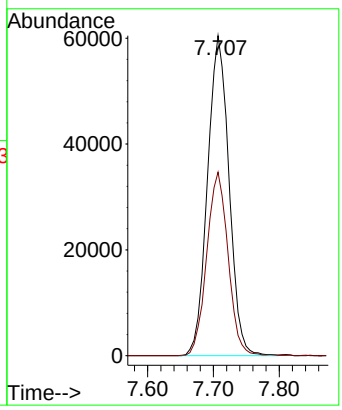


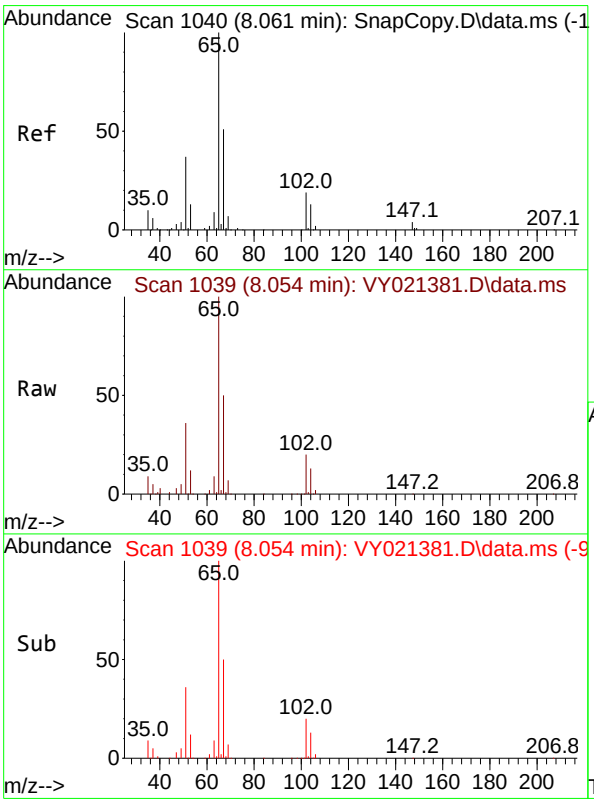
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion:168 Resp: 137587

Ion	Ratio	Lower	Upper
168	100		
99	57.4	47.1	70.7

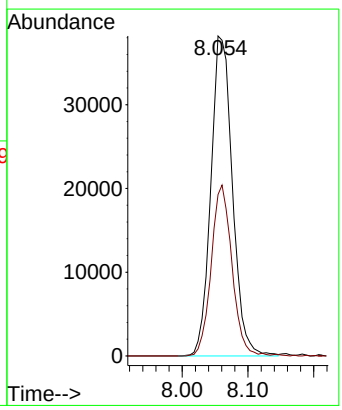


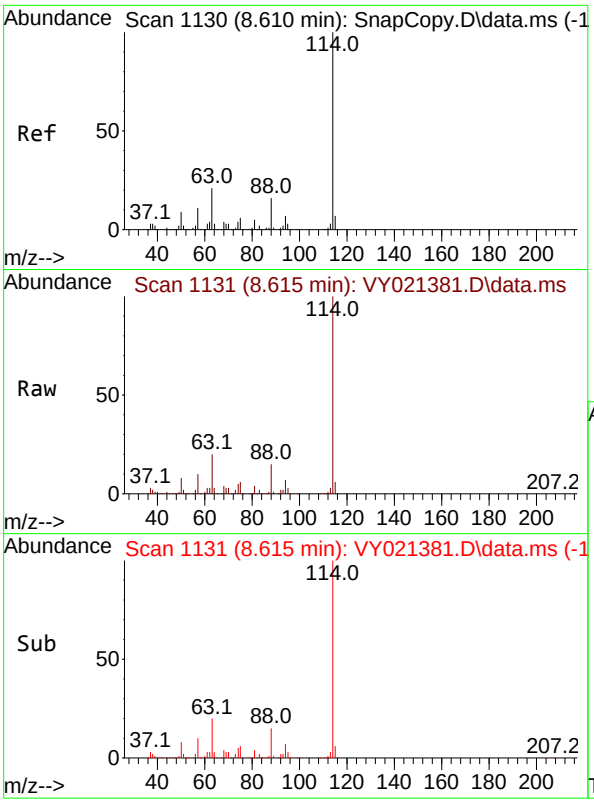


#33
1,2-Dichloroethane-d4
Concen: 55.946 ug/l
RT: 8.054 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion: 65 Resp: 87320

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	103.6



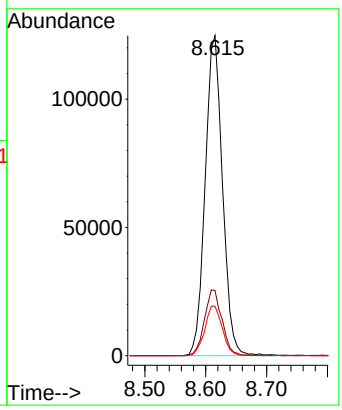


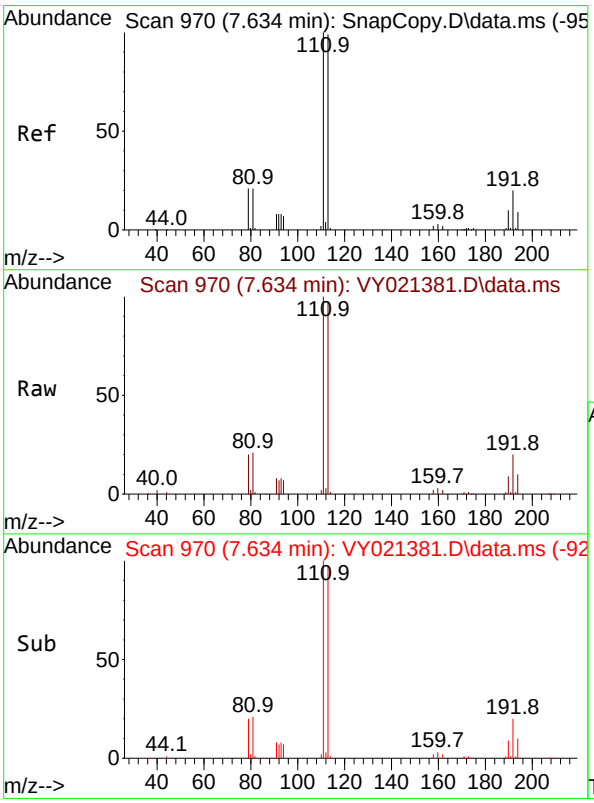
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion:114 Resp: 246433

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.2
88	15.4	0.0	29.8

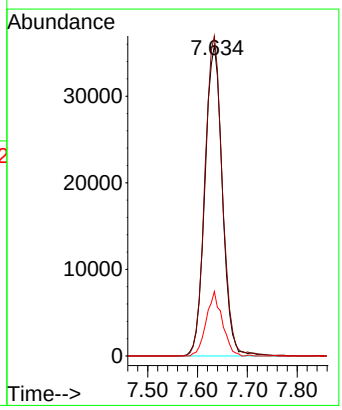


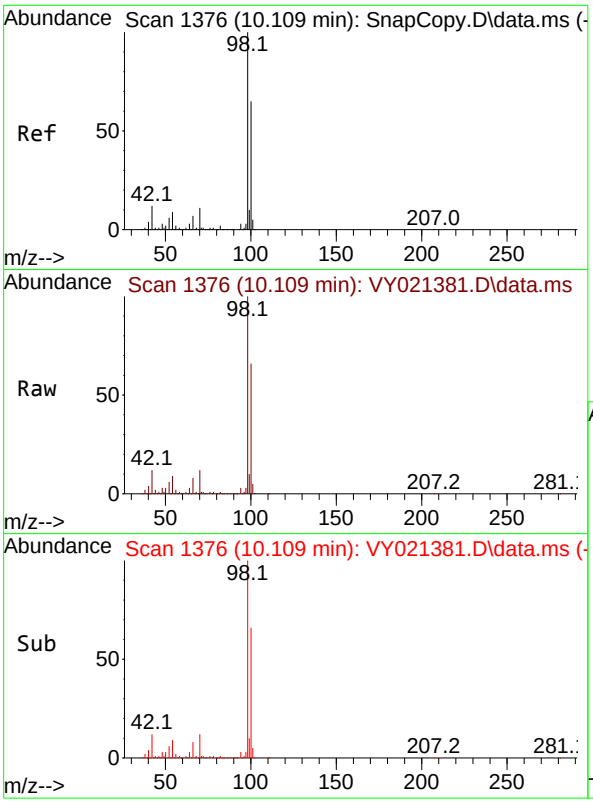


#35
Dibromofluoromethane
Concen: 53.891 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion:113 Resp: 87068

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.0	121.6
192	19.1	15.8	23.8



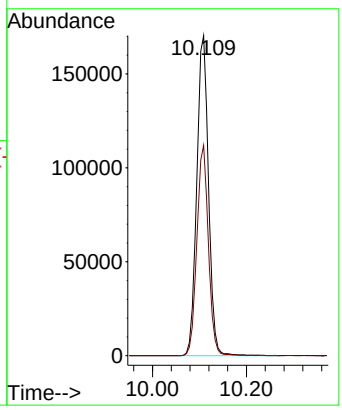


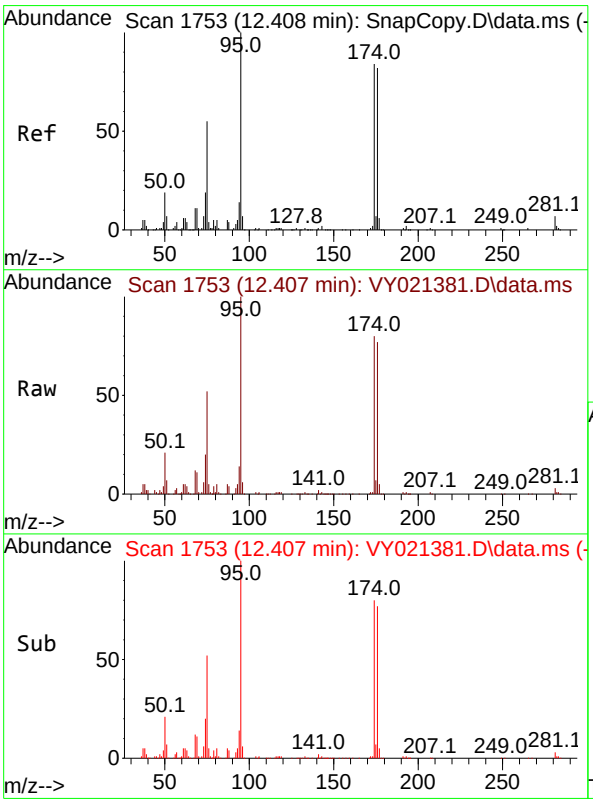
#50
Toluene-d8
Concen: 47.445 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion: 98 Resp: 296249

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.4	78.6

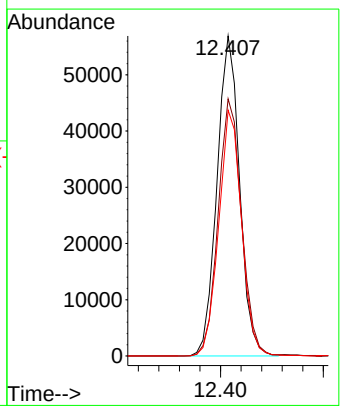


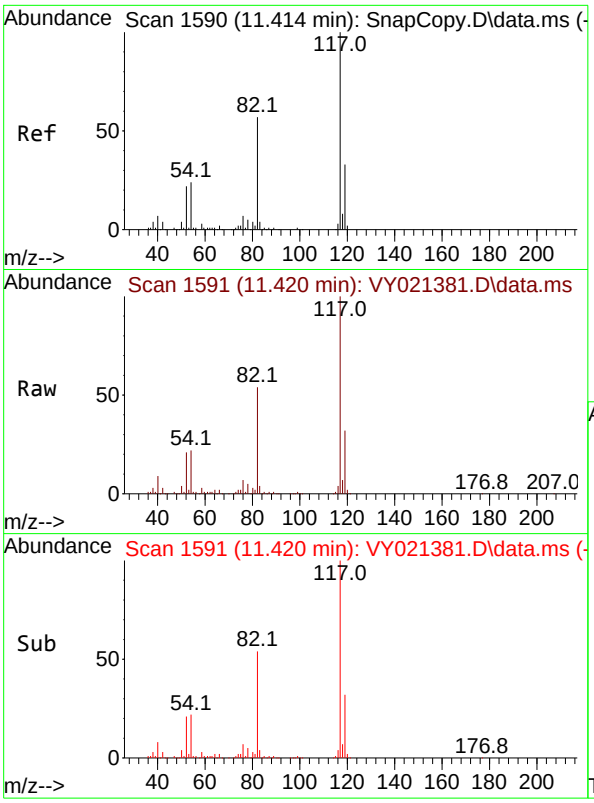


#62
4-Bromofluorobenzene
Concen: 41.240 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion: 95 Resp: 86661

Ion	Ratio	Lower	Upper
95	100		
174	83.3	0.0	168.0
176	77.6	0.0	162.6



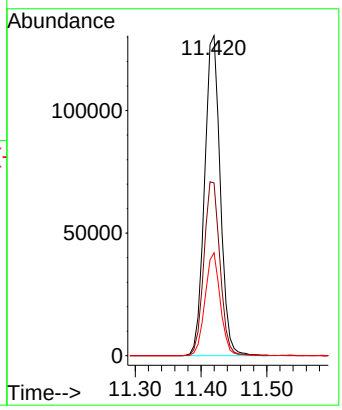


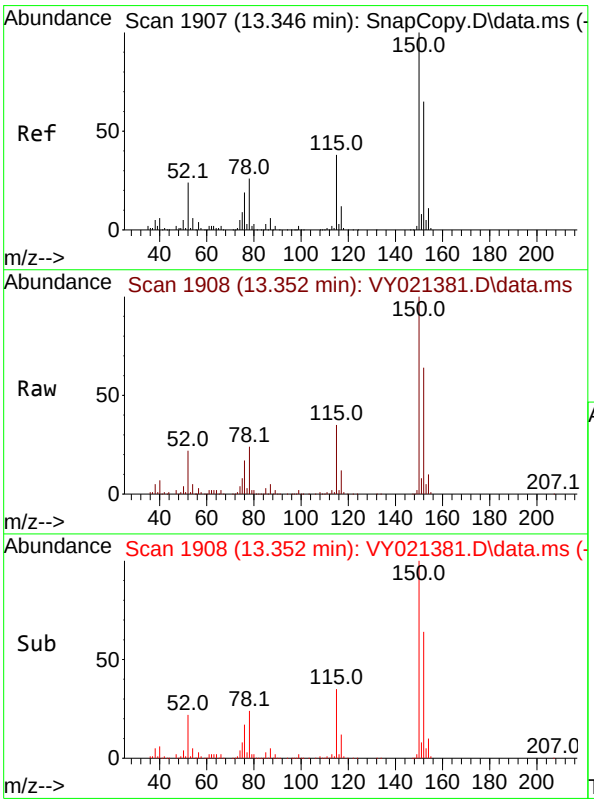
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion:117 Resp: 216935

Ion	Ratio	Lower	Upper
117	100		
82	54.0	46.2	69.4
119	32.2	24.9	37.3

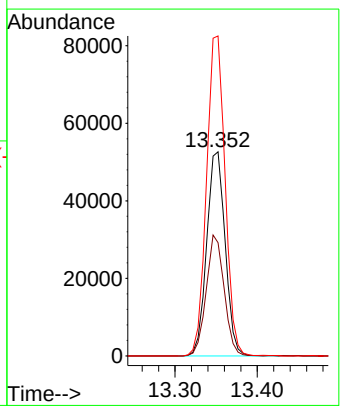




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion:152 Resp: 82177

Ion	Ratio	Lower	Upper
152	100		
115	57.6	29.3	88.0
150	157.2	0.0	347.4



Sample Results: **VY021381.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

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\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021381.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	465	474	483	rBV3	11650	35266	4.38%	0.847%
2	5.646	632	644	654	rVB6	4938	17162	2.13%	0.412%
3	7.634	958	970	976	rBV	120861	296244	36.79%	7.118%
4	7.707	976	982	994	rVB	182741	413606	51.36%	9.938%
5	8.054	1031	1039	1053	rBV	108052	247094	30.68%	5.937%
6	8.615	1122	1131	1142	rBV	295481	594714	73.85%	14.290%
7	10.109	1364	1376	1389	rBV	458408	805288	100.00%	19.350%
8	11.420	1583	1591	1604	rBV	405639	686233	85.22%	16.489%
9	12.407	1744	1753	1762	rBV	298576	479579	59.55%	11.523%
10	13.346	1900	1907	1916	rBV	330689	518132	64.34%	12.450%
11	13.889	1989	1996	2003	rVB2	42557	68454	8.50%	1.645%

Sum of corrected areas: 4161772

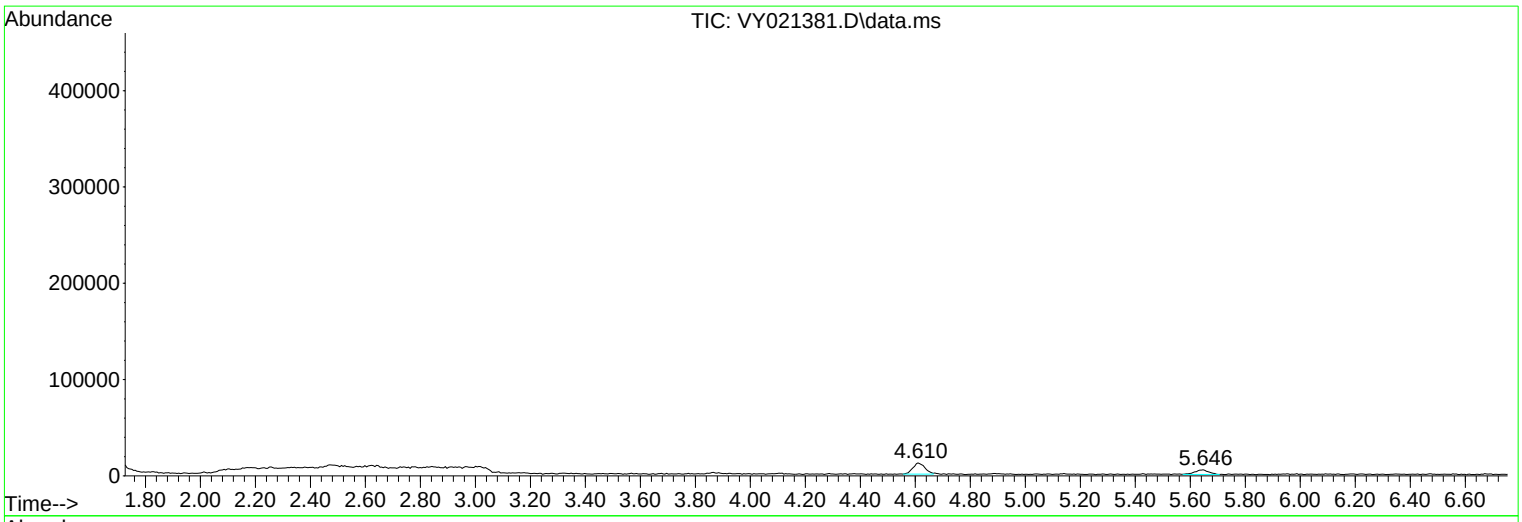
Sample Results: **VY021381.D**

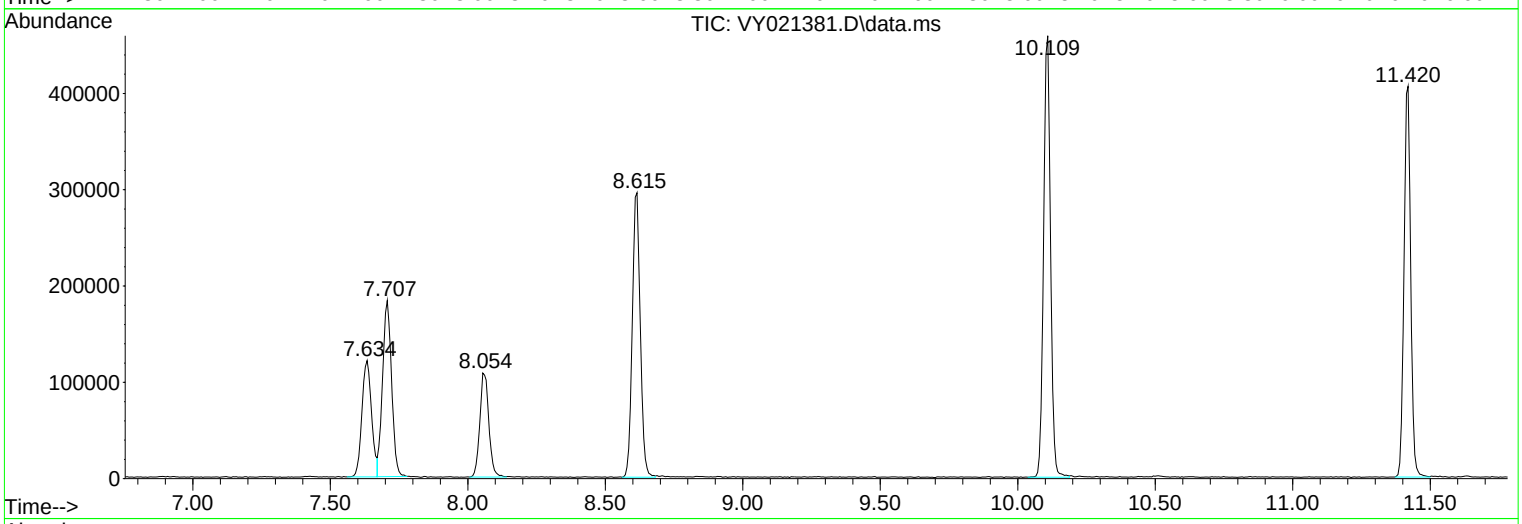
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

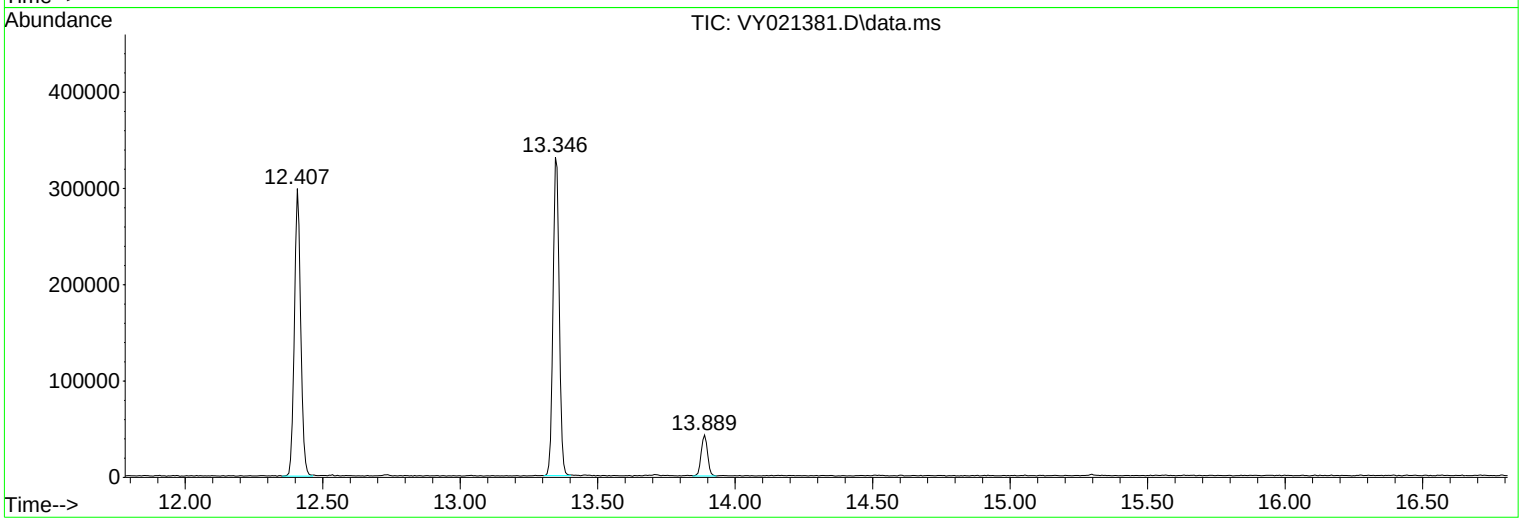
Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

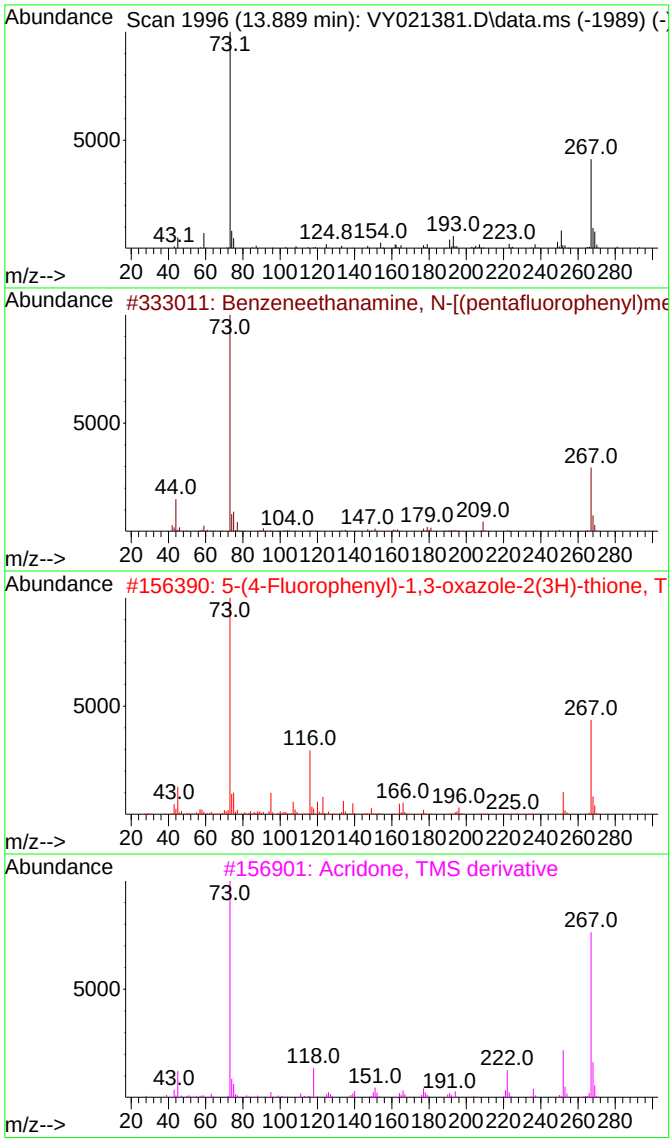
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

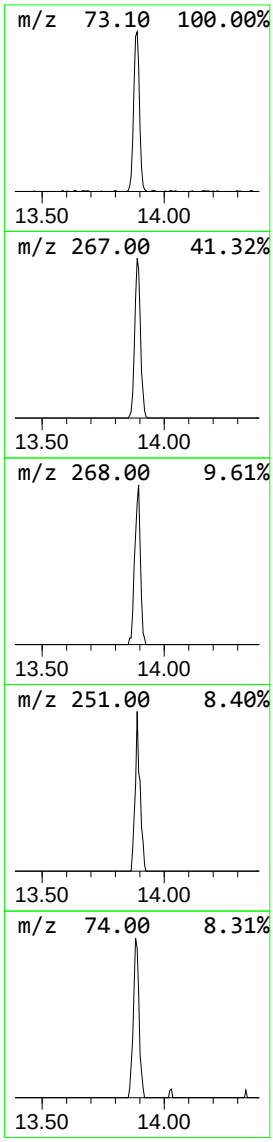
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzeneethanamine, N-[(pent... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	6.61 ug/l	68454	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	64
2	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	64
3	Acridone, TMS derivative	267	C16H17NOSi	1000478-16-0	59
4	Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	50
5	4-(Methylamino)phenol, N,O-bis(t...	267	C13H25NOSi2	1000471-13-0	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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
Benzeneethanami...	13.889	6.6	ug/l	68454	4	13.352	518132	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Time: Feb 28 00:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	140233	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	264026	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	255103	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	107368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	94225	59.230	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.460%			
35) Dibromofluoromethane	7.634	113	90944	52.539	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.080%			
50) Toluene-d8	10.109	98	322284	48.176	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.360%			
62) 4-Bromofluorobenzene	12.407	95	111519	49.533	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.060%			

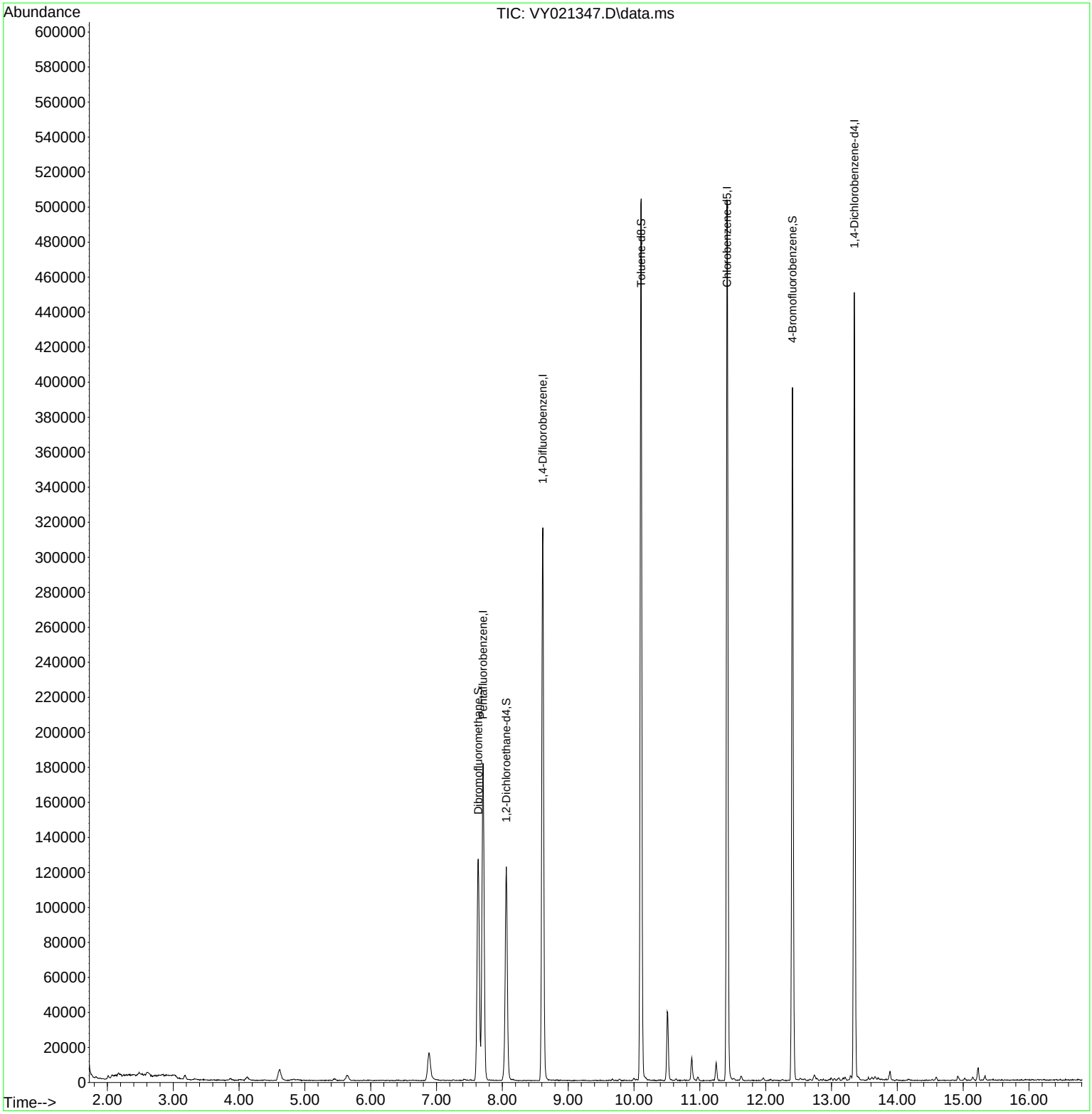
Target Compounds Qvalue

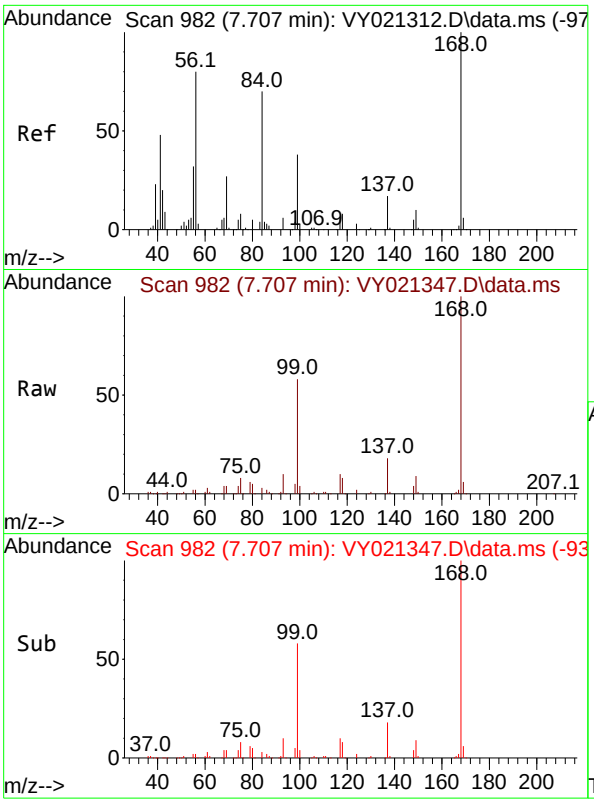
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Time: Feb 28 00:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



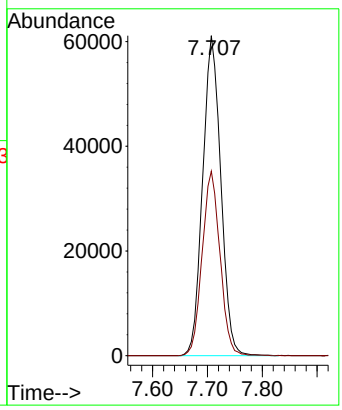


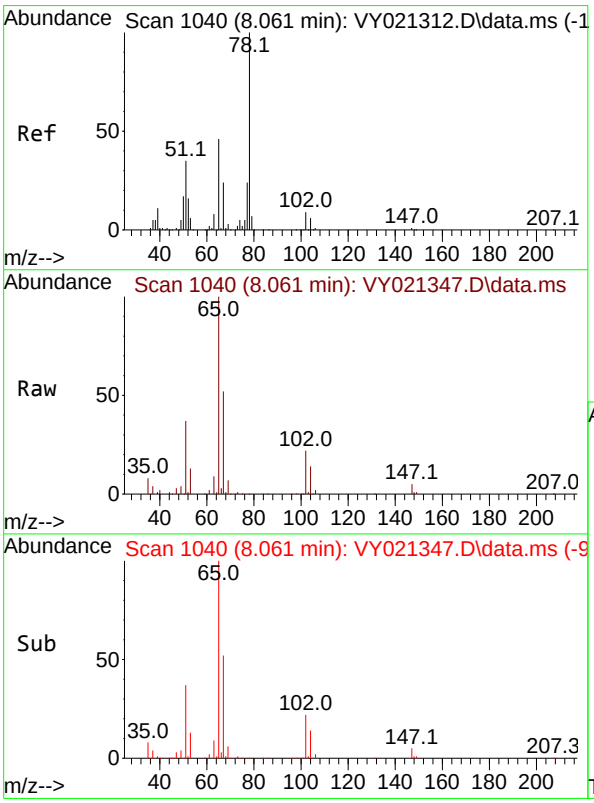
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:168 Resp: 140233

Ion	Ratio	Lower	Upper
168	100		
99	57.6	47.1	70.7

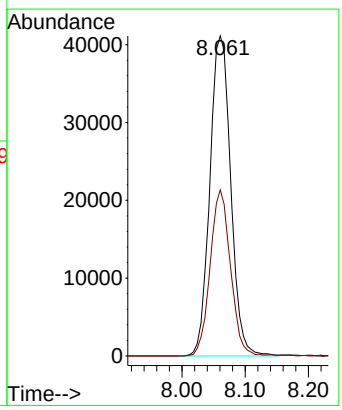


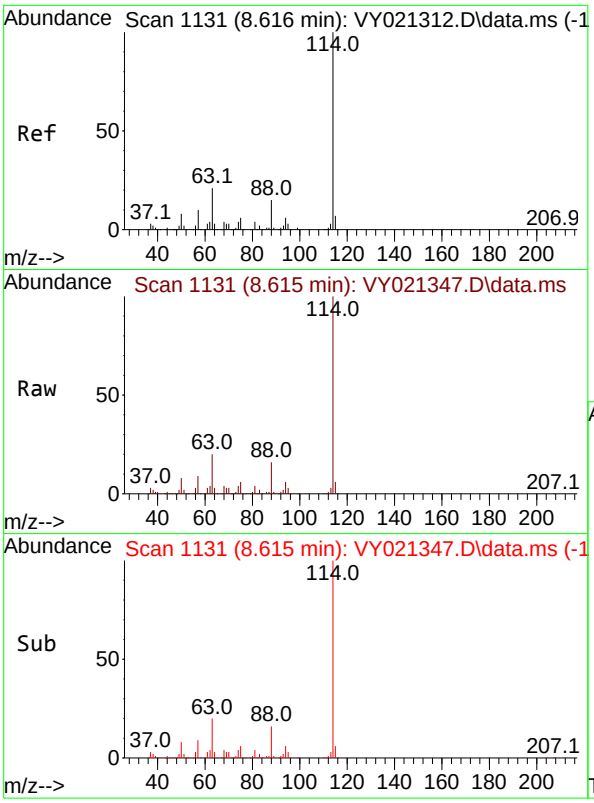


#33
1,2-Dichloroethane-d4
Concen: 59.230 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 65 Resp: 94225

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	103.6



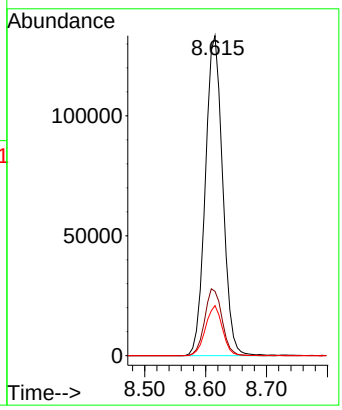


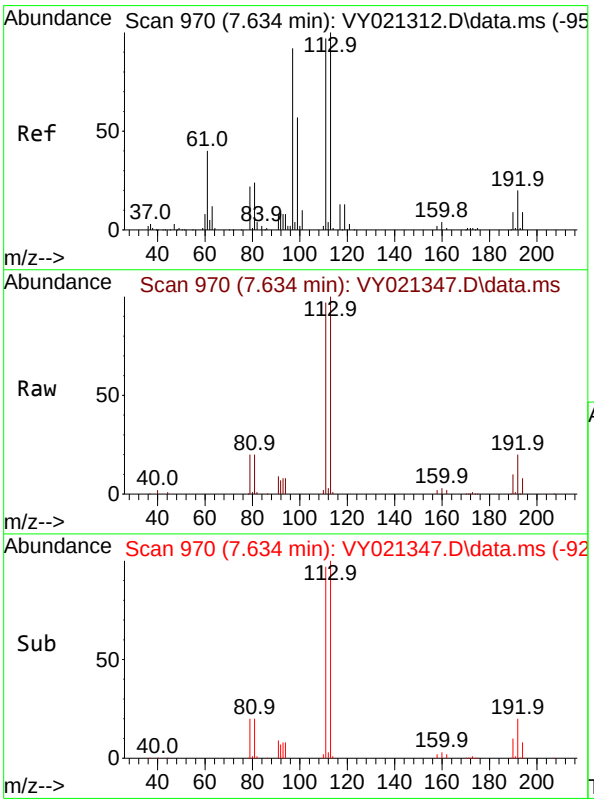
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:114 Resp: 264026

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.2
88	15.7	0.0	29.8

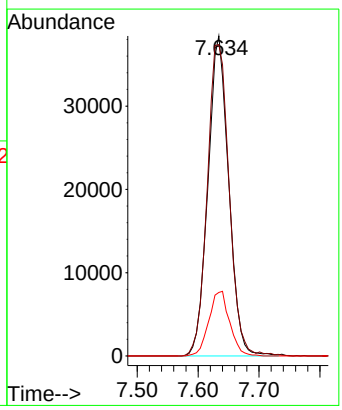


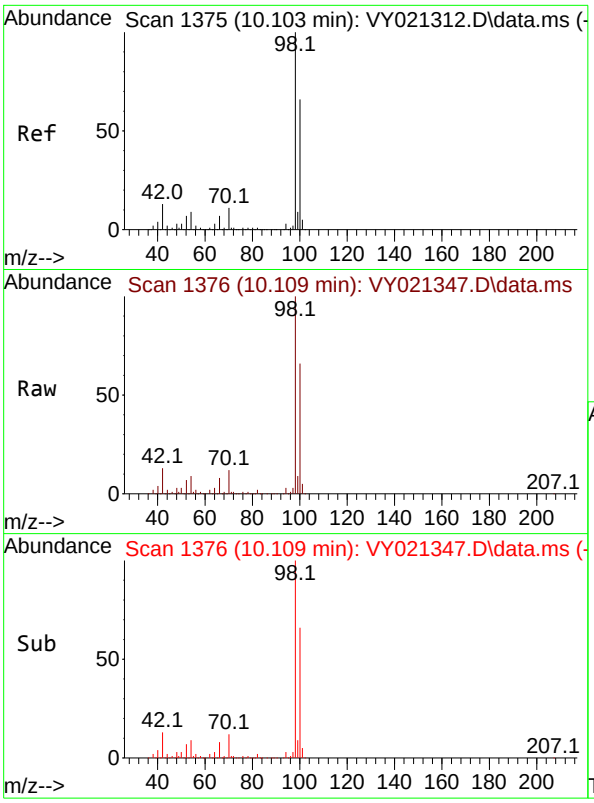


#35
Dibromofluoromethane
Concen: 52.539 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion:113 Resp: 90944

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.0	121.6
192	20.3	15.8	23.8



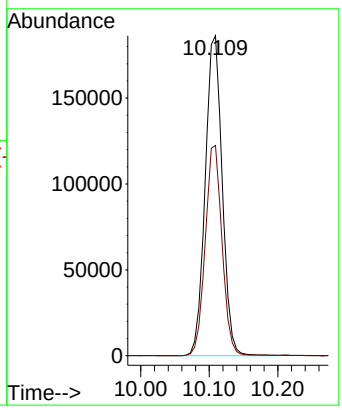


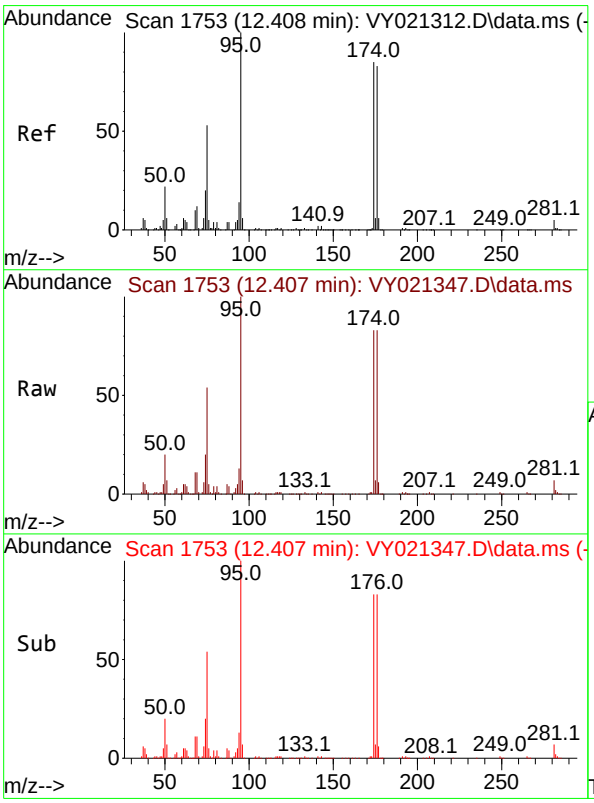
#50
Toluene-d8
Concen: 48.176 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion: 98 Resp: 322284

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.4	78.6

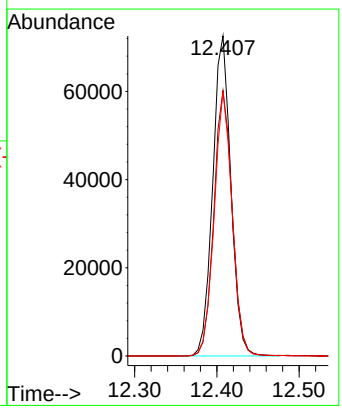


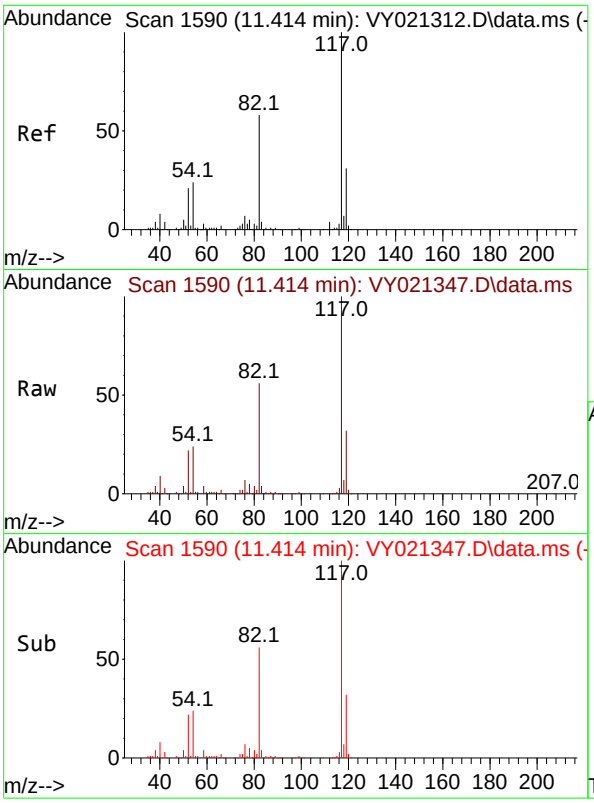


#62
4-Bromofluorobenzene
Concen: 49.533 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 95 Resp: 111519

Ion	Ratio	Lower	Upper
95	100		
174	83.8	0.0	168.0
176	81.7	0.0	162.6



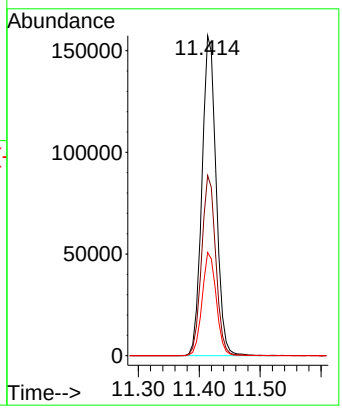


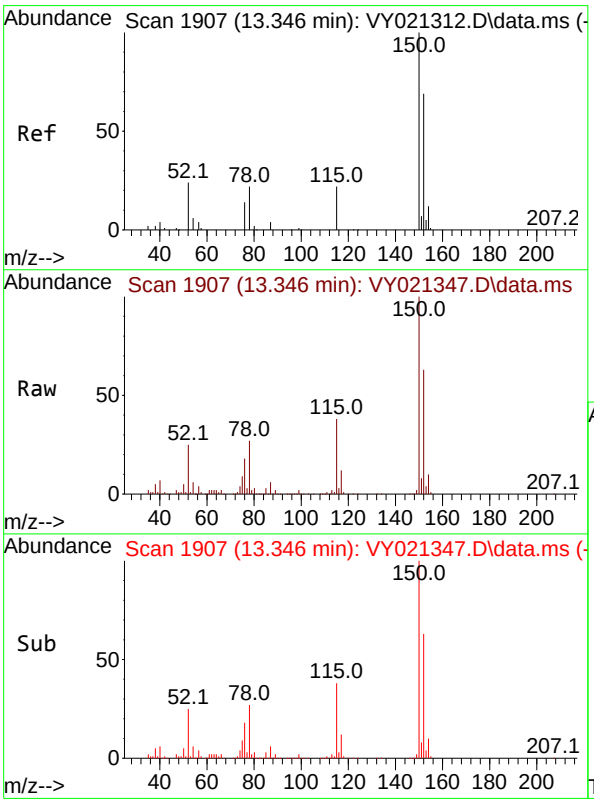
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:117 Resp: 255103

Ion	Ratio	Lower	Upper
117	100		
82	56.3	46.2	69.4
119	32.3	24.9	37.3

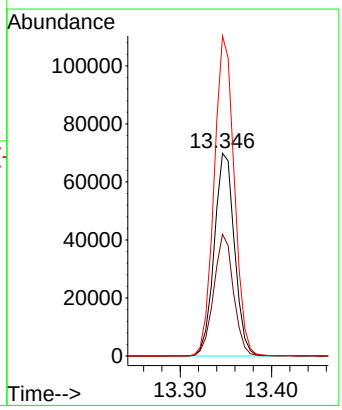




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion:152 Resp: 107368

Ion	Ratio	Lower	Upper
152	100		
115	58.5	29.3	88.0
150	157.4	0.0	347.4



Sample Results: **VY021347.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

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\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021347.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	467	475	492	rVB2	6284	21235	2.42%	0.437%
2	5.640	632	643	655	rBV5	3017	9750	1.11%	0.201%
3	6.884	837	847	865	rBV	15930	53856	6.14%	1.109%
4	7.634	960	970	976	rBV2	126557	309026	35.24%	6.363%
5	7.707	976	982	996	rVB	181083	418824	47.76%	8.623%
6	8.061	1027	1040	1051	rBV	122099	283283	32.30%	5.833%
7	8.615	1122	1131	1145	rBV	315845	630977	71.95%	12.992%
8	10.109	1368	1376	1392	rVB	503363	876938	100.00%	18.056%
9	10.505	1434	1441	1450	rBV	39488	72341	8.25%	1.489%
10	10.877	1492	1502	1510	rBV	13045	22855	2.61%	0.471%
11	11.249	1558	1563	1570	rVB	10227	16372	1.87%	0.337%
12	11.414	1583	1590	1603	rBV	503205	815091	92.95%	16.782%
13	12.407	1746	1753	1762	rBV2	395816	641394	73.14%	13.206%
14	13.346	1901	1907	1915	rBV	448635	672738	76.71%	13.851%
15	15.230	2210	2216	2220	rBV3	7340	12145	1.38%	0.250%

Sum of corrected areas: 4856825

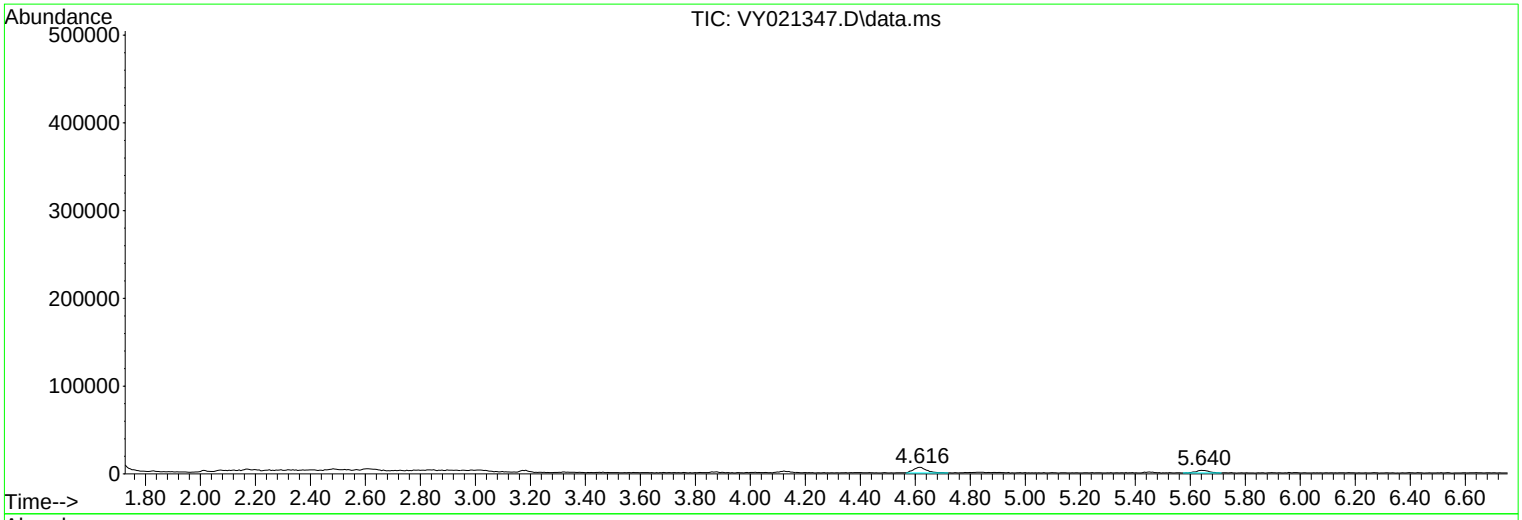
Sample Results: **VY021347.D**

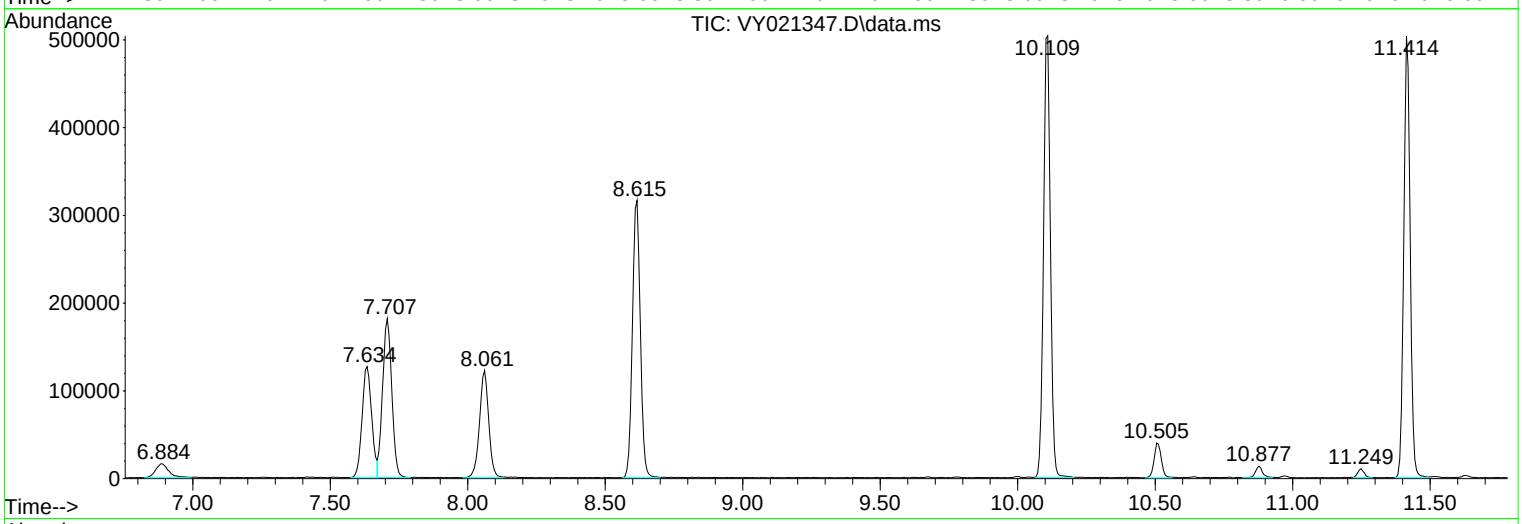
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

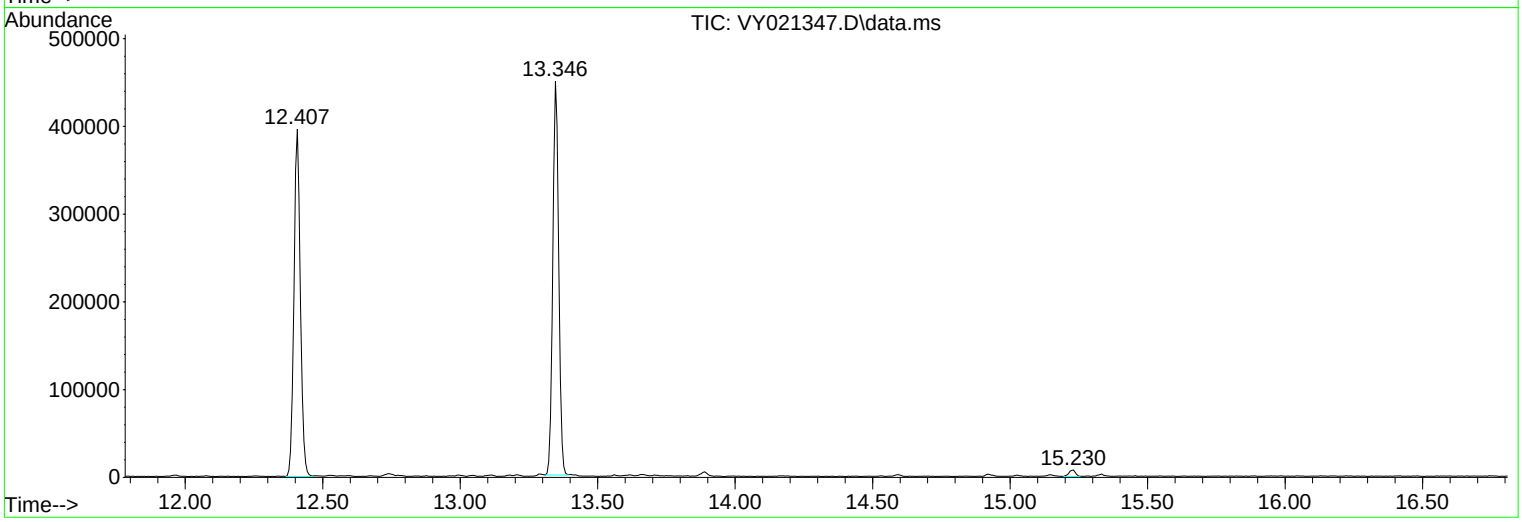
Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY021347.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Time: Feb 28 22:18:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	105534	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	180558	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	159029	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	59388	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	62494	52.201	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.400%			
35) Dibromofluoromethane	7.634	113	61564	52.007	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.020%			
50) Toluene-d8	10.109	98	215695	47.148	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.300%			
62) 4-Bromofluorobenzene	12.408	95	62690	40.717	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 81.440%			

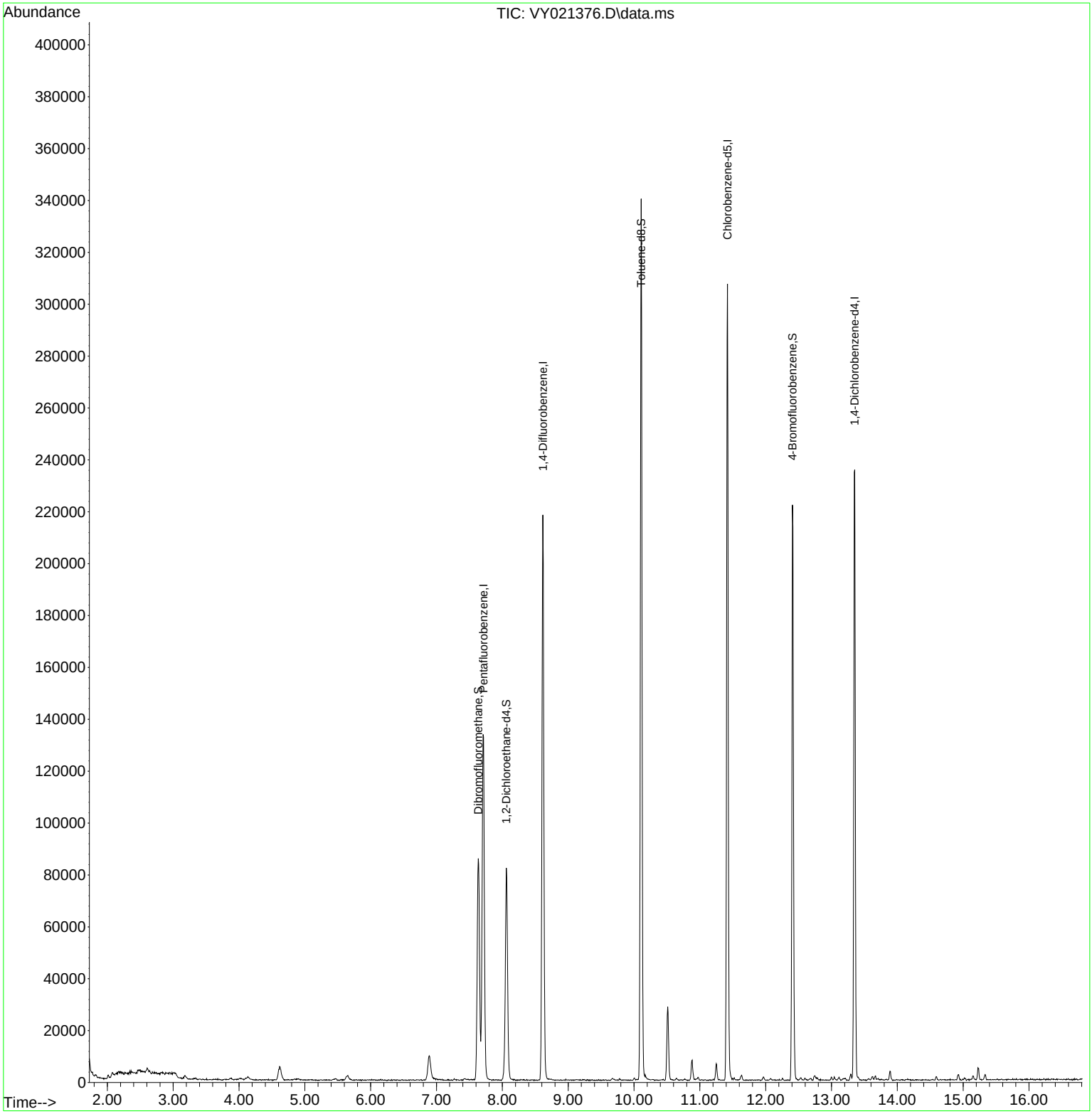
Target Compounds Qvalue

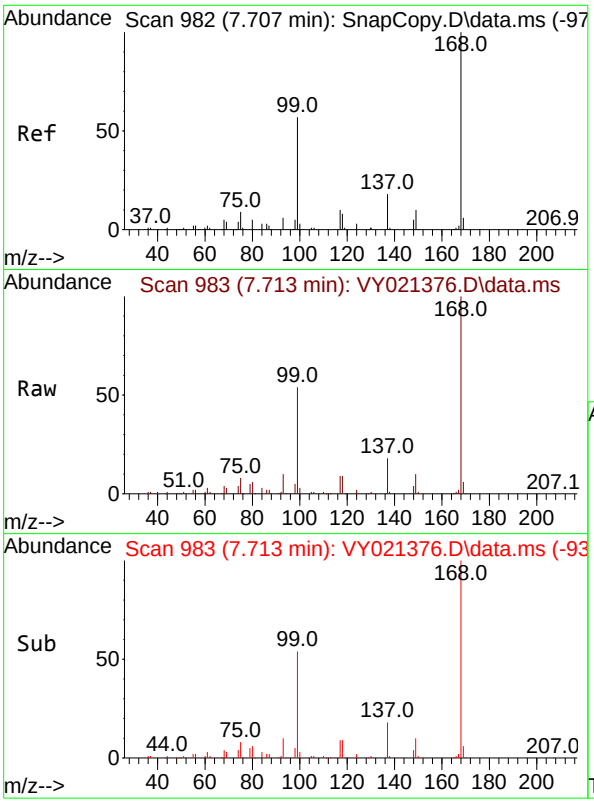
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Time: Feb 28 22:18:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



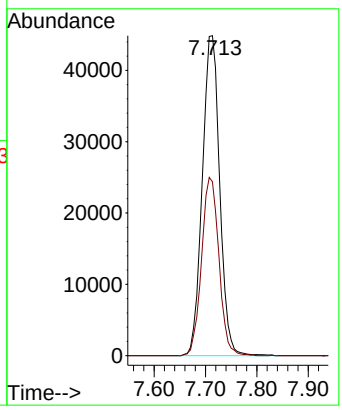


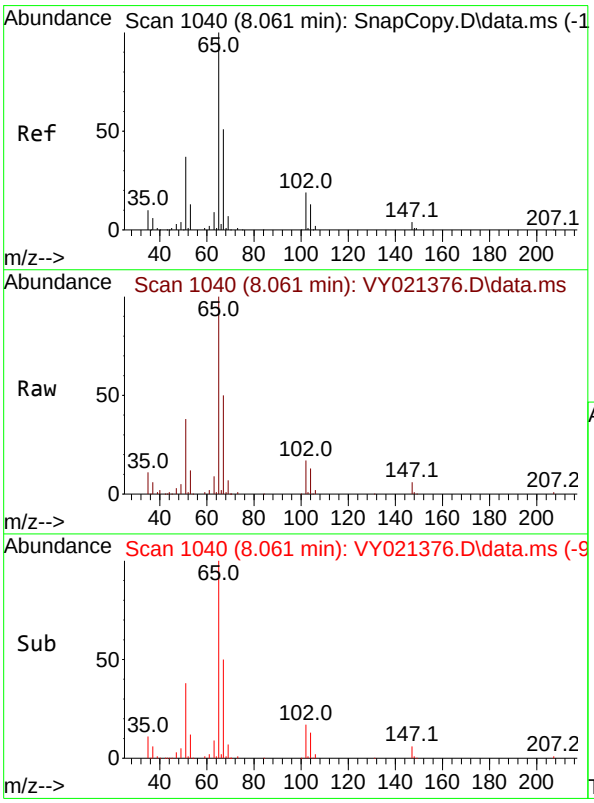
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion:168 Resp: 105534

Ion	Ratio	Lower	Upper
168	100		
99	54.4	47.1	70.7

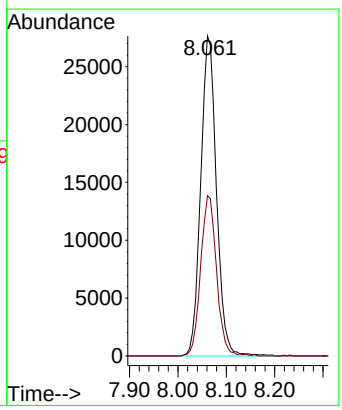


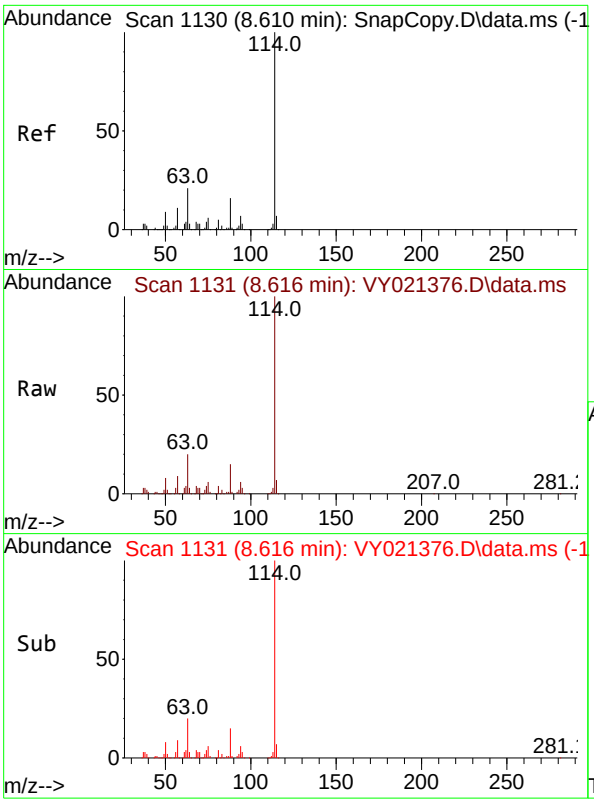


#33
1,2-Dichloroethane-d4
Concen: 52.201 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion: 65 Resp: 62494

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	103.6



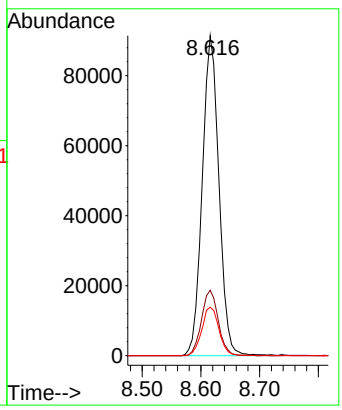


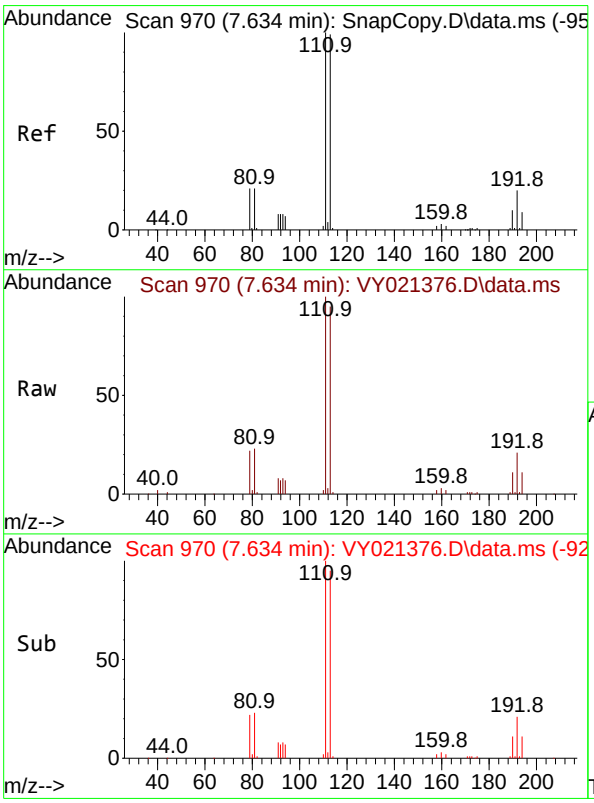
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion:114 Resp: 180558

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	42.2
88	15.2	0.0	29.8

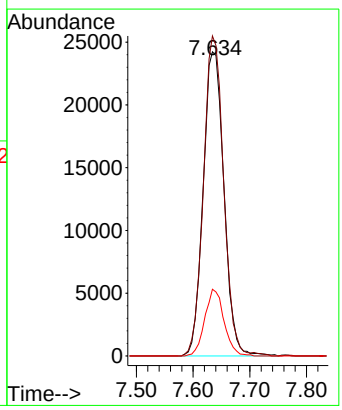


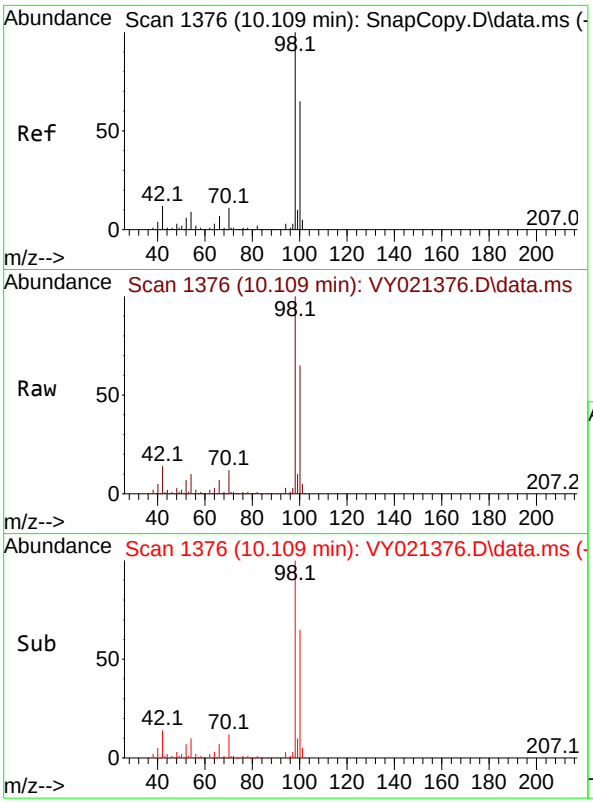


#35
Dibromofluoromethane
Concen: 52.007 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion:113 Resp: 61564

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.0	121.6
192	20.3	15.8	23.8



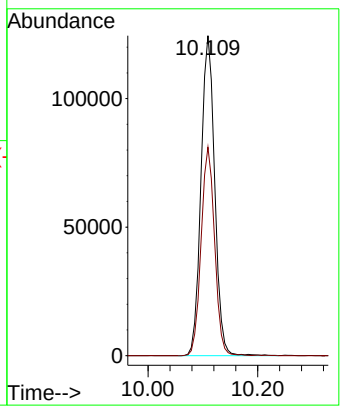


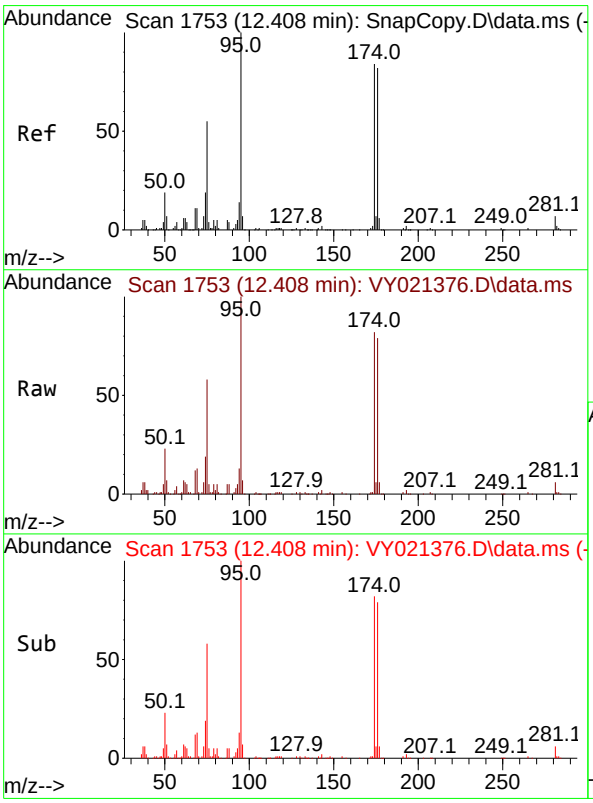
#50
Toluene-d8
Concen: 47.148 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion: 98 Resp: 215695

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.4	78.6

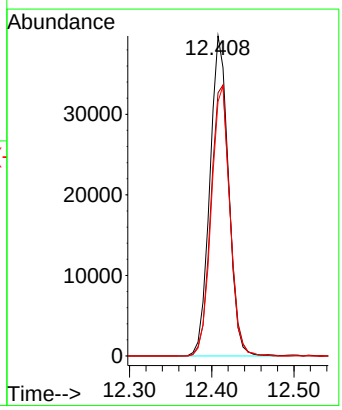


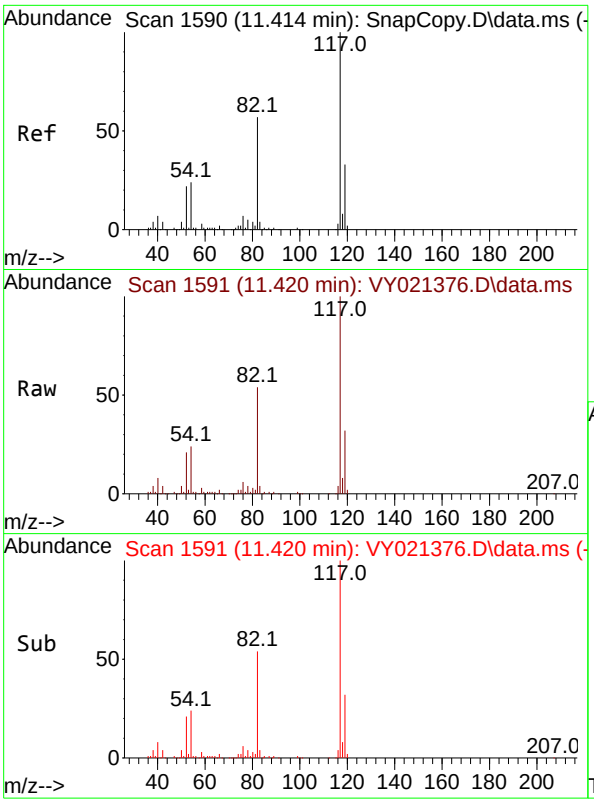


#62
4-Bromofluorobenzene
Concen: 40.717 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion: 95 Resp: 62690

Ion	Ratio	Lower	Upper
95	100		
174	86.5	0.0	168.0
176	83.6	0.0	162.6



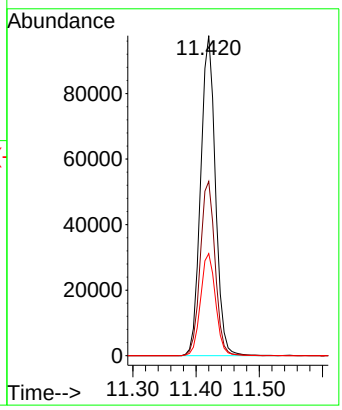


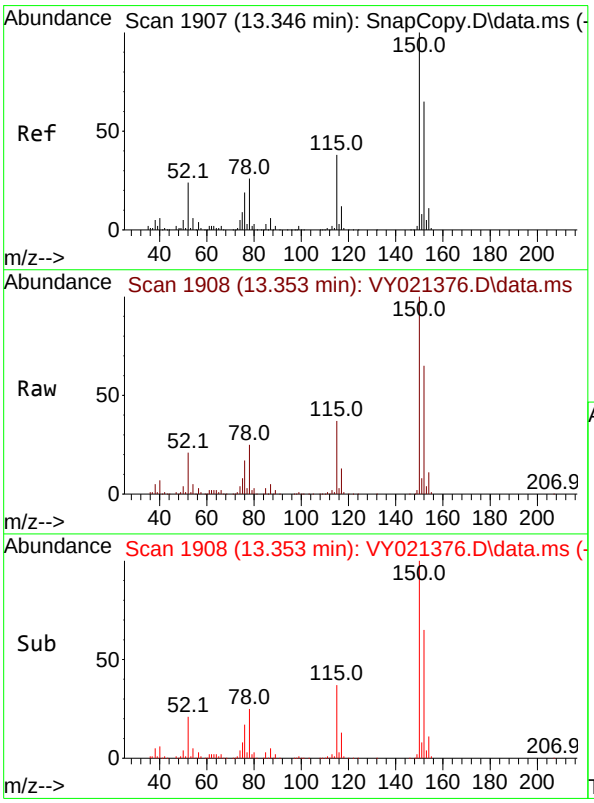
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion:117 Resp: 159029

Ion	Ratio	Lower	Upper
117	100		
82	54.5	46.2	69.4
119	31.9	24.9	37.3

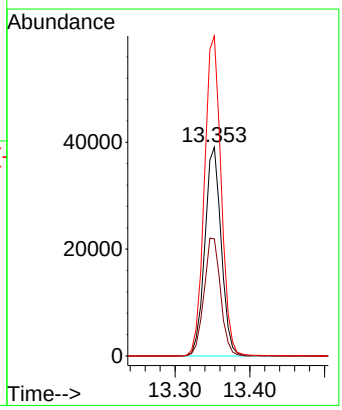




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion:152 Resp: 59388

Ion	Ratio	Lower	Upper
152	100		
115	57.1	29.3	88.0
150	156.4	0.0	347.4



Sample Results: **VY021376.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

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\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021376.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	466	475	486	rVB3	5259	16483	2.83%	0.528%
2	6.890	839	848	859	rBV2	9298	29328	5.04%	0.939%
3	7.634	961	970	976	rBV	85357	209625	35.99%	6.709%
4	7.707	976	982	995	rVB	132816	312807	53.71%	10.012%
5	8.061	1027	1040	1055	rBV3	81941	194530	33.40%	6.226%
6	8.616	1123	1131	1145	rBV	217850	433719	74.47%	13.882%
7	10.109	1368	1376	1385	rBV	339535	582391	100.00%	18.641%
8	10.512	1435	1442	1449	rBV	28352	52264	8.97%	1.673%
9	10.884	1495	1503	1508	rBV3	7886	14332	2.46%	0.459%
10	11.249	1558	1563	1569	rBV2	6342	10537	1.81%	0.337%
11	11.420	1583	1591	1602	rBV	307053	509322	87.45%	16.302%
12	12.408	1747	1753	1765	rBV2	221809	372790	64.01%	11.932%
13	13.353	1901	1908	1916	rVV	234724	372159	63.90%	11.912%
14	13.889	1990	1996	2004	rVB3	3626	6380	1.10%	0.204%
15	15.224	2210	2215	2221	rBV2	4691	7662	1.32%	0.245%

Sum of corrected areas: 3124329

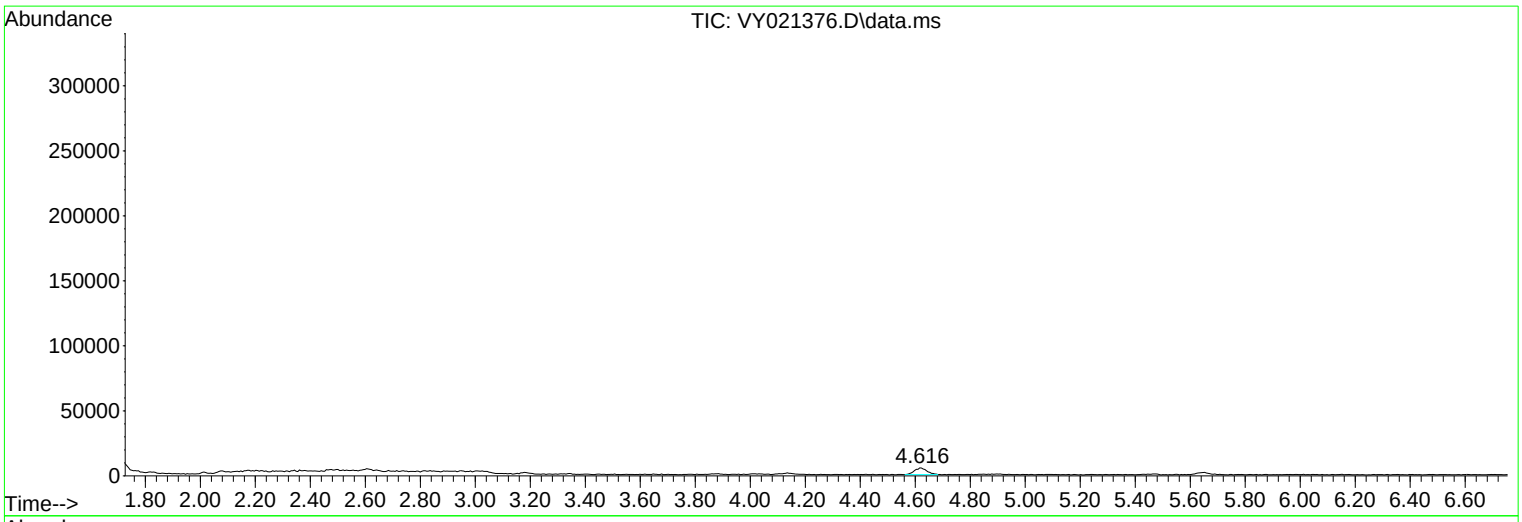
Sample Results: **VY021376.D**

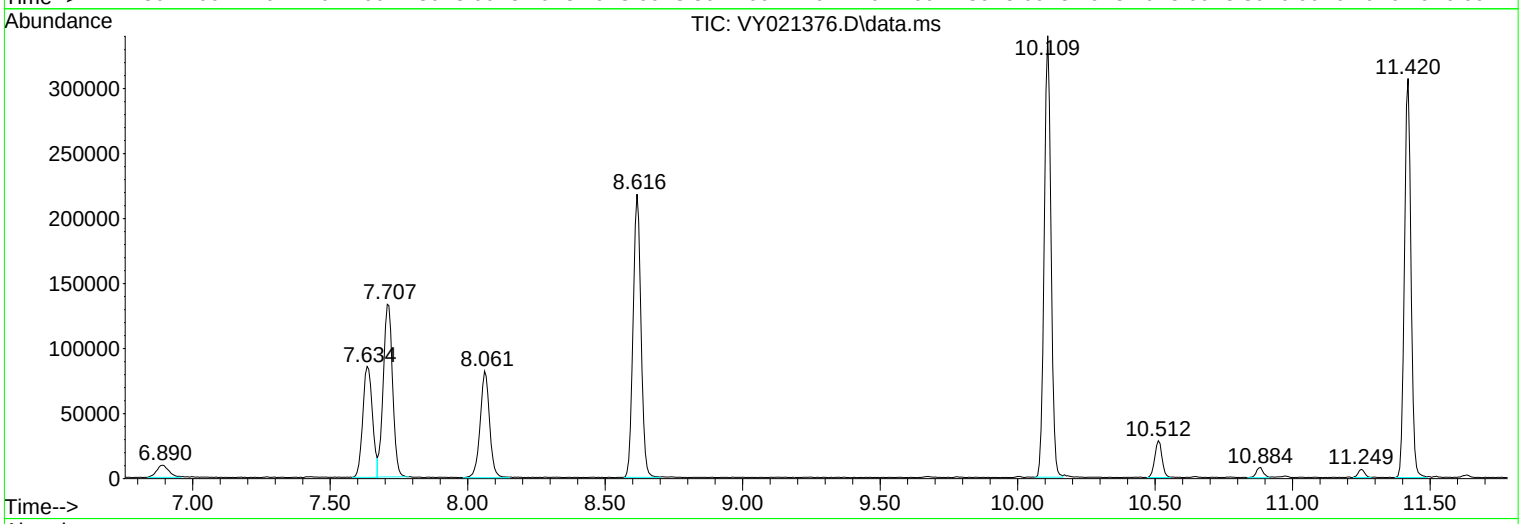
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

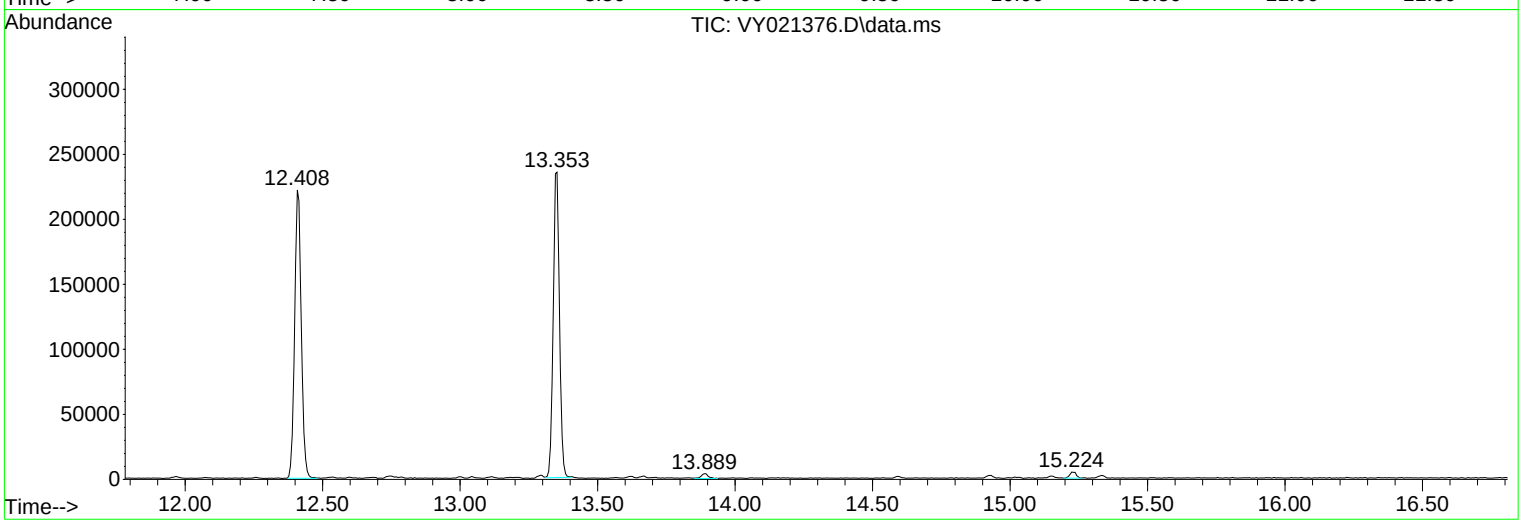
Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	199987	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	311959	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	272418	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	138215	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	116027	51.143	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.280%			
35) Dibromofluoromethane	7.628	113	106867	52.252	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.500%			
50) Toluene-d8	10.103	98	413664	52.334	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.660%			
62) 4-Bromofluorobenzene	12.408	95	139307	52.368	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 104.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	37086	19.559	ug/l	97
3) Chloromethane	2.068	50	45372	18.528	ug/l	98
4) Vinyl Chloride	2.202	62	46452	19.327	ug/l	97
5) Bromomethane	2.586	94	30476	19.081	ug/l	99
6) Chloroethane	2.733	64	29673	19.908	ug/l	98
7) Trichlorofluoromethane	3.056	101	73497	20.248	ug/l	99
8) Diethyl Ether	3.452	74	20917	19.199	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	42936	20.431	ug/l	99
10) Methyl Iodide	4.001	142	41447	18.746	ug/l	100
11) Tert butyl alcohol	4.860	59	15512	88.893	ug/l	97
12) 1,1-Dichloroethene	3.787	96	39988	19.872	ug/l	94
13) Acrolein	3.647	56	22410	167.586	ug/l	95
14) Allyl chloride	4.379	41	67291	18.861	ug/l	99
15) Acrylonitrile	5.055	53	44168	91.694	ug/l	98
16) Acetone	3.866	43	46430	106.690	ug/l	99
17) Carbon Disulfide	4.104	76	123567	18.493	ug/l	100
18) Methyl Acetate	4.385	43	19413	18.253	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	101763	19.141	ug/l	99
20) Methylene Chloride	4.616	84	46825	19.898	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	43373	19.580	ug/l	97
22) Diisopropyl ether	6.019	45	143470	19.433	ug/l	98
23) Vinyl Acetate	5.958	43	413611	93.754	ug/l	99
24) 1,1-Dichloroethane	5.909	63	81302	19.539	ug/l	98
25) 2-Butanone	6.890	43	63968	97.394	ug/l	99
26) 2,2-Dichloropropane	6.878	77	75215	19.921	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	49301	19.490	ug/l	99
28) Bromochloromethane	7.244	49	34908	18.960	ug/l	99
29) Tetrahydrofuran	7.262	42	39410	91.797	ug/l	99
30) Chloroform	7.421	83	84823	20.118	ug/l	98
31) Cyclohexane	7.701	56	74866	18.717	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	76848	20.024	ug/l	98
36) 1,1-Dichloropropene	7.835	75	60971	19.846	ug/l	99
37) Ethyl Acetate	6.988	43	28033	18.344	ug/l	97
38) Carbon Tetrachloride	7.817	117	68822	19.927	ug/l	98
39) Methylcyclohexane	9.109	83	74844	19.261	ug/l	97
40) Benzene	8.079	78	180639	19.891	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	17060m	19.967	ug/l		
42) 1,2-Dichloroethane	8.158	62	52273	20.288	ug/l		99
43) Isopropyl Acetate	8.195	43	54717	18.499	ug/l		99
44) Trichloroethene	8.866	130	45500	20.012	ug/l		97
45) 1,2-Dichloropropane	9.140	63	43265	19.796	ug/l		96
46) Dibromomethane	9.231	93	23940	20.039	ug/l		100
47) Bromodichloromethane	9.420	83	64230	20.164	ug/l		97
48) Methyl methacrylate	9.219	41	24954	18.041	ug/l		97
49) 1,4-Dioxane	9.225	88	4987	375.432	ug/l		94
51) 4-Methyl-2-Pentanone	9.999	43	139296	91.997	ug/l		99
52) Toluene	10.170	92	114108	20.226	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	56809	19.466	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	66736	19.370	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	31323	20.127	ug/l		98
56) Ethyl methacrylate	10.438	69	41028	19.079	ug/l		97
57) 1,3-Dichloropropane	10.713	76	54720	20.037	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	96301	93.300	ug/l		99
59) 2-Hexanone	10.762	43	95328	95.864	ug/l		100
60) Dibromochloromethane	10.914	129	41937	19.786	ug/l		99
61) 1,2-Dibromoethane	11.012	107	28803	19.549	ug/l		98
64) Tetrachloroethene	10.646	164	40978	19.901	ug/l		97
65) Chlorobenzene	11.438	112	121107	19.805	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	43712	20.415	ug/l		100
67) Ethyl Benzene	11.518	91	217521	20.082	ug/l		98
68) m/p-Xylenes	11.627	106	164558	40.391	ug/l		100
69) o-Xylene	11.956	106	75583	19.803	ug/l		99
70) Styrene	11.969	104	125803	19.811	ug/l		99
71) Bromoform	12.133	173	24353	19.881	ug/l	#	99
73) Isopropylbenzene	12.255	105	206205	19.845	ug/l		99
74) N-amyl acetate	12.072	43	47320	17.916	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	34737	18.942	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	25901m	18.722	ug/l		
77) Bromobenzene	12.530	156	47735	19.751	ug/l		97
78) n-propylbenzene	12.597	91	251702	19.962	ug/l		100
79) 2-Chlorotoluene	12.682	91	142369	19.674	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	170506	20.007	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	11755	18.885	ug/l		99
82) 4-Chlorotoluene	12.780	91	149541	19.935	ug/l		99
83) tert-Butylbenzene	12.999	119	154147	20.024	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	170349	20.098	ug/l		100
85) sec-Butylbenzene	13.176	105	225031	20.012	ug/l		99
86) p-Isopropyltoluene	13.292	119	187791	20.000	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	95671	20.011	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	93607	19.820	ug/l		98
89) n-Butylbenzene	13.621	91	175070	19.813	ug/l		100
90) Hexachloroethane	13.883	117	38407	19.583	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	82275	19.642	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5427	18.707	ug/l		98
93) 1,2,4-Trichlorobenzene	14.925	180	46899	18.345	ug/l		99
94) Hexachlorobutadiene	15.029	225	31841	19.783	ug/l		100
95) Naphthalene	15.145	128	73424	17.339	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	40776	18.878	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

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

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

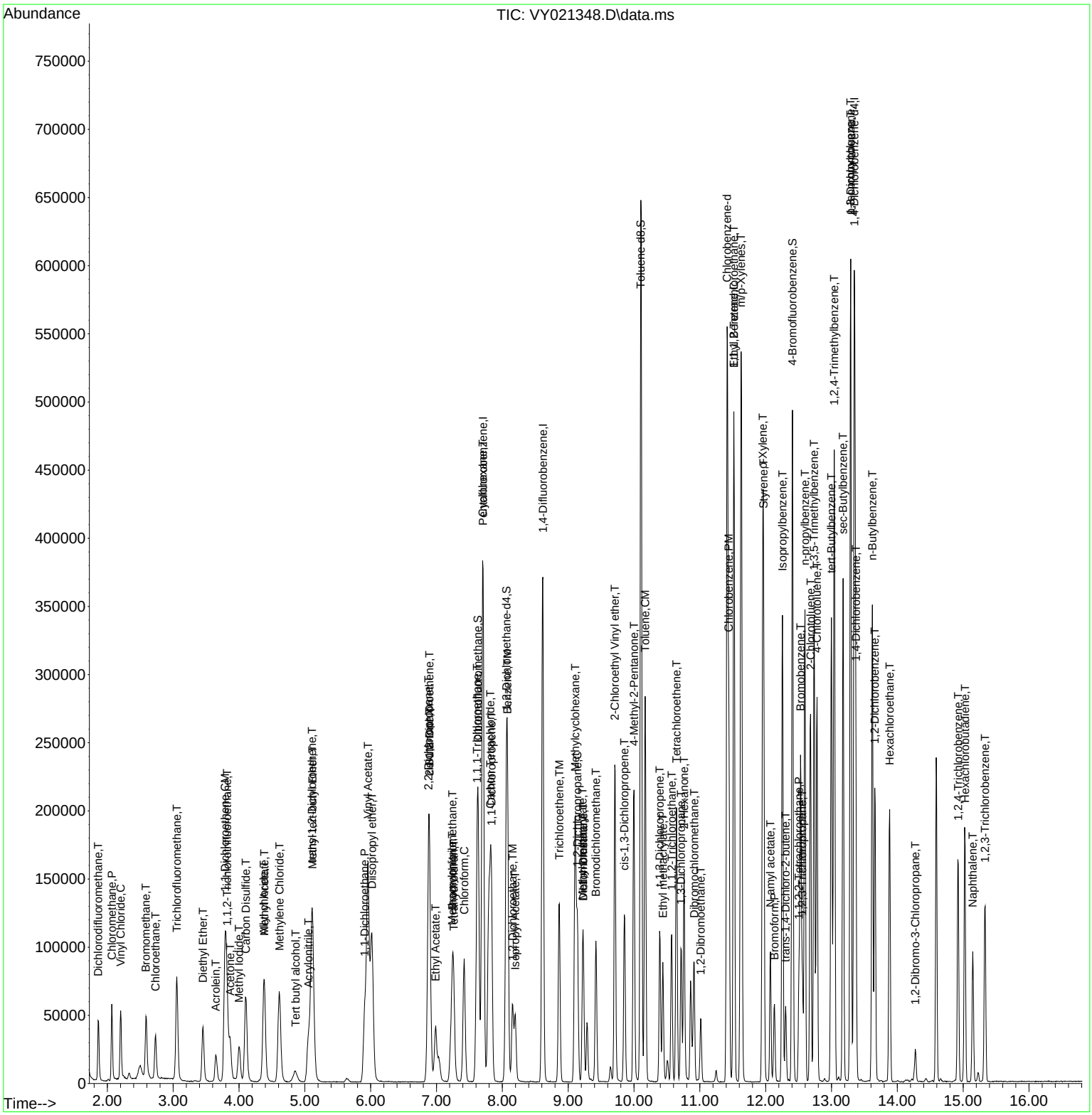
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	168970	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	257471	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	224033	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	115456	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	82743	43.167	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 86.340%			
35) Dibromofluoromethane	7.640	113	77212	45.742	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 91.480%			
50) Toluene-d8	10.109	98	289320	44.349	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 88.700%			
62) 4-Bromofluorobenzene	12.408	95	95946	43.701	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 87.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	29723	18.553	ug/l	95
3) Chloromethane	2.068	50	36553	17.667	ug/l	99
4) Vinyl Chloride	2.202	62	39280	19.343	ug/l	93
5) Bromomethane	2.592	94	27186	20.145	ug/l	99
6) Chloroethane	2.732	64	25258	20.057	ug/l	98
7) Trichlorofluoromethane	3.056	101	61224	19.963	ug/l	96
8) Diethyl Ether	3.452	74	17417	18.921	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.812	101	34990	19.706	ug/l	100
10) Methyl Iodide	4.007	142	34422	18.427	ug/l	99
11) Tert butyl alcohol	4.866	59	12120	82.204	ug/l	99
12) 1,1-Dichloroethene	3.793	96	31916	18.772	ug/l	91
13) Acrolein	3.647	56	16459	145.677	ug/l	97
14) Allyl chloride	4.385	41	49721	16.495	ug/l	96
15) Acrylonitrile	5.061	53	36749	90.297	ug/l	99
16) Acetone	3.872	43	28550	77.647	ug/l	94
17) Carbon Disulfide	4.104	76	98237	17.401	ug/l	97
18) Methyl Acetate	4.385	43	16534	18.400	ug/l	94
19) Methyl tert-butyl Ether	5.116	73	84448	18.800	ug/l	100
20) Methylene Chloride	4.616	84	37924	19.074	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	34397	18.378	ug/l	96
22) Diisopropyl ether	6.018	45	110995	17.794	ug/l	97
23) Vinyl Acetate	5.964	43	324772	87.130	ug/l	98
24) 1,1-Dichloroethane	5.915	63	63844	18.160	ug/l	99
25) 2-Butanone	6.890	43	46319	83.468	ug/l	97
26) 2,2-Dichloropropane	6.890	77	56022	17.561	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	39898	18.668	ug/l	96
28) Bromochloromethane	7.244	49	27733	17.828	ug/l	92
29) Tetrahydrofuran	7.262	42	31461	86.734	ug/l	97
30) Chloroform	7.421	83	67278	18.886	ug/l	97
31) Cyclohexane	7.701	56	57900	17.133	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	61837	19.070	ug/l	100
36) 1,1-Dichloropropene	7.835	75	47878	18.883	ug/l	99
37) Ethyl Acetate	6.988	43	22949	18.195	ug/l	98
38) Carbon Tetrachloride	7.817	117	55703	19.541	ug/l	99
39) Methylcyclohexane	9.109	83	58155	18.134	ug/l	97
40) Benzene	8.079	78	143523	19.148	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	12586m	17.848	ug/l		
42) 1,2-Dichloroethane	8.158	62	41428	19.481	ug/l		97
43) Isopropyl Acetate	8.195	43	44479	18.220	ug/l		99
44) Trichloroethene	8.865	130	36816	19.619	ug/l		96
45) 1,2-Dichloropropane	9.140	63	34360	19.049	ug/l		99
46) Dibromomethane	9.231	93	19456	19.733	ug/l		97
47) Bromodichloromethane	9.426	83	51835	19.717	ug/l		98
48) Methyl methacrylate	9.219	41	19952	17.477	ug/l		94
49) 1,4-Dioxane	9.231	88	4114	375.255	ug/l		92
51) 4-Methyl-2-Pentanone	9.999	43	115289	92.255	ug/l		100
52) Toluene	10.170	92	89754	19.276	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	44692	18.555	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	53051	18.657	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	25241	19.651	ug/l		98
56) Ethyl methacrylate	10.438	69	33119	18.661	ug/l		98
57) 1,3-Dichloropropane	10.719	76	44249	19.632	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	75597	88.741	ug/l		97
59) 2-Hexanone	10.761	43	74950	91.322	ug/l		100
60) Dibromochloromethane	10.914	129	35624	20.364	ug/l		98
61) 1,2-Dibromoethane	11.011	107	23736	19.519	ug/l		97
64) Tetrachloroethene	10.646	164	34526	20.389	ug/l		98
65) Chlorobenzene	11.444	112	99308	19.747	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	35523	20.173	ug/l		100
67) Ethyl Benzene	11.524	91	170306	19.119	ug/l		99
68) m/p-Xylenes	11.633	106	131250	39.173	ug/l		98
69) o-Xylene	11.956	106	61033	19.445	ug/l		98
70) Styrene	11.969	104	102541	19.635	ug/l		99
71) Bromoform	12.133	173	20397	20.248	ug/l	#	99
73) Isopropylbenzene	12.255	105	164175	18.914	ug/l		100
74) N-amyl acetate	12.072	43	37786	17.127	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.511	83	29422	19.206	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	22194m	19.205	ug/l		
77) Bromobenzene	12.536	156	39235	19.434	ug/l		94
78) n-propylbenzene	12.597	91	196454	18.652	ug/l		98
79) 2-Chlorotoluene	12.682	91	113116	18.713	ug/l		97
80) 1,3,5-Trimethylbenzene	12.737	105	136074	19.114	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.310	75	8873	17.065	ug/l		96
82) 4-Chlorotoluene	12.779	91	115393	18.415	ug/l		98
83) tert-Butylbenzene	12.999	119	119869	18.640	ug/l		100
84) 1,2,4-Trimethylbenzene	13.048	105	135274	19.106	ug/l		99
85) sec-Butylbenzene	13.176	105	176579	18.799	ug/l		99
86) p-Isopropyltoluene	13.292	119	148920	18.987	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	77744	19.467	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	76272	19.333	ug/l		99
89) n-Butylbenzene	13.621	91	136569	18.503	ug/l		98
90) Hexachloroethane	13.883	117	30423	18.570	ug/l		97
91) 1,2-Dichlorobenzene	13.663	146	68082	19.458	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4491	18.532	ug/l		96
93) 1,2,4-Trichlorobenzene	14.925	180	39259	18.384	ug/l		99
94) Hexachlorobutadiene	15.029	225	25857	19.232	ug/l		99
95) Naphthalene	15.151	128	61755	17.459	ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	33733	18.696	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

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

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

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

Sample Results: **VY021377.D**

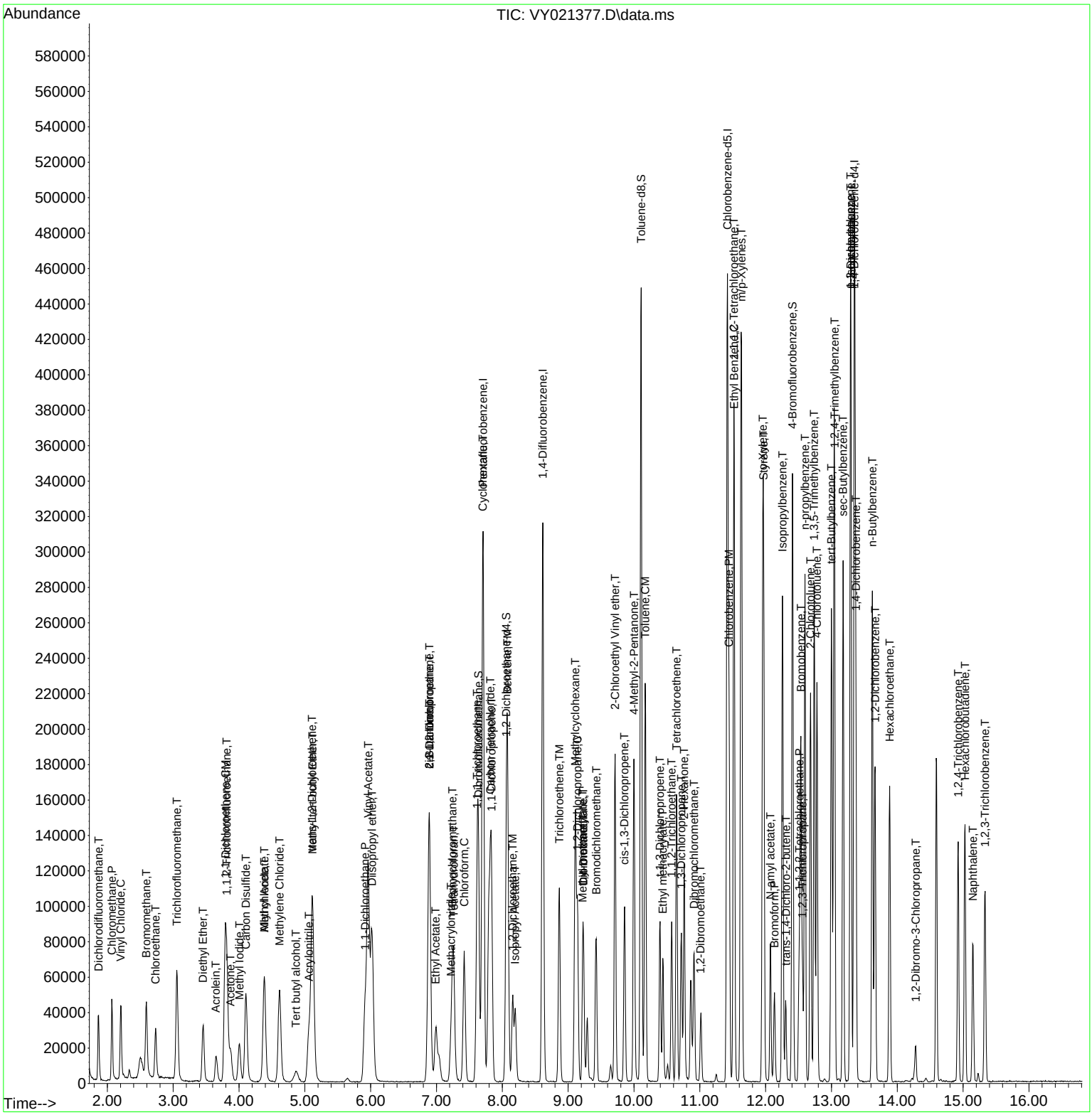
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 00:40:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	198659	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	310671	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	272052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	137933	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	101944	45.236	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 90.480%			
35) Dibromofluoromethane	7.634	113	92849	45.586	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 91.180%			
50) Toluene-d8	10.103	98	356688	45.313	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 90.620%			
62) 4-Bromofluorobenzene	12.402	95	119898	45.259	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 90.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	35262	18.721	ug/l	98
3) Chloromethane	2.068	50	44619	18.343	ug/l	97
4) Vinyl Chloride	2.202	62	44508	18.642	ug/l	99
5) Bromomethane	2.586	94	29567	18.635	ug/l	100
6) Chloroethane	2.733	64	29123	19.670	ug/l	98
7) Trichlorofluoromethane	3.056	101	70391	19.522	ug/l	99
8) Diethyl Ether	3.452	74	21878	20.216	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.812	101	42182	20.206	ug/l	98
10) Methyl Iodide	4.001	142	43590	19.847	ug/l	99
11) Tert butyl alcohol	4.848	59	16710m	96.398	ug/l	
12) 1,1-Dichloroethene	3.787	96	38944	19.483	ug/l	98
13) Acrolein	3.653	56	24700	185.946	ug/l	94
14) Allyl chloride	4.379	41	65599	18.510	ug/l	99
15) Acrylonitrile	5.055	53	47280	98.811	ug/l	99
16) Acetone	3.867	43	44126	102.074	ug/l	98
17) Carbon Disulfide	4.104	76	122176	18.407	ug/l	97
18) Methyl Acetate	4.385	43	20494	19.398	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	105075	19.896	ug/l	97
20) Methylene Chloride	4.616	84	48638	20.806	ug/l	94
21) trans-1,2-Dichloroethene	5.110	96	42797	19.449	ug/l	95
22) Diisopropyl ether	6.012	45	143925	19.625	ug/l	99
23) Vinyl Acetate	5.958	43	422766	96.470	ug/l	99
24) 1,1-Dichloroethane	5.915	63	79851	19.319	ug/l	97
25) 2-Butanone	6.890	43	65440	100.301	ug/l	93
26) 2,2-Dichloropropane	6.878	77	72271	19.269	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	49527	19.710	ug/l	98
28) Bromochloromethane	7.244	49	36677	20.054	ug/l	98
29) Tetrahydrofuran	7.256	42	42111	98.745	ug/l	99
30) Chloroform	7.415	83	83409	19.915	ug/l	96
31) Cyclohexane	7.695	56	72200	18.172	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	75049	19.686	ug/l	99
36) 1,1-Dichloropropene	7.835	75	59900	19.578	ug/l	99
37) Ethyl Acetate	6.982	43	29786	19.572	ug/l	98
38) Carbon Tetrachloride	7.817	117	68272	19.849	ug/l	99
39) Methylcyclohexane	9.109	83	74465	19.243	ug/l	96
40) Benzene	8.079	78	179474	19.844	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 00:40:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	15267	17.942	ug/l	#	90
42) 1,2-Dichloroethane	8.158	62	52390	20.417	ug/l		99
43) Isopropyl Acetate	8.195	43	58264	19.779	ug/l		99
44) Trichloroethene	8.866	130	45194	19.959	ug/l		100
45) 1,2-Dichloropropane	9.140	63	42605	19.575	ug/l		100
46) Dibromomethane	9.225	93	24136	20.287	ug/l		99
47) Bromodichloromethane	9.420	83	64023	20.183	ug/l		98
48) Methyl methacrylate	9.219	41	27400	19.891	ug/l		99
49) 1,4-Dioxane	9.225	88	5250	396.870	ug/l		95
51) 4-Methyl-2-Pentanone	10.000	43	149583	99.200	ug/l		100
52) Toluene	10.170	92	111889	19.915	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	57123	19.655	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	66848	19.483	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	31392	20.255	ug/l		98
56) Ethyl methacrylate	10.438	69	42049	19.635	ug/l		99
57) 1,3-Dichloropropane	10.713	76	55897	20.553	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	101862	99.097	ug/l		98
59) 2-Hexanone	10.762	43	98713	99.680	ug/l		99
60) Dibromochloromethane	10.908	129	43397	20.559	ug/l		99
61) 1,2-Dibromoethane	11.012	107	29498	20.104	ug/l		99
64) Tetrachloroethene	10.646	164	40481	19.686	ug/l		97
65) Chlorobenzene	11.438	112	119791	19.616	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	43652	20.414	ug/l		98
67) Ethyl Benzene	11.518	91	213261	19.715	ug/l		99
68) m/p-Xylenes	11.627	106	160355	39.412	ug/l		98
69) o-Xylene	11.957	106	74908	19.653	ug/l		99
70) Styrene	11.969	104	123889	19.536	ug/l		99
71) Bromoform	12.133	173	24357	19.911	ug/l	#	95
73) Isopropylbenzene	12.255	105	202320	19.511	ug/l		99
74) N-amyl acetate	12.066	43	50118	19.015	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	37100	20.272	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	25467m	18.446	ug/l		
77) Bromobenzene	12.530	156	46970	19.474	ug/l		99
78) n-propylbenzene	12.597	91	244088	19.398	ug/l		100
79) 2-Chlorotoluene	12.682	91	141363	19.575	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	166093	19.529	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	12177	19.603	ug/l		99
82) 4-Chlorotoluene	12.780	91	146247	19.536	ug/l		100
83) tert-Butylbenzene	12.999	119	150694	19.615	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	168485	19.919	ug/l		99
85) sec-Butylbenzene	13.176	105	220676	19.665	ug/l		99
86) p-Isopropyltoluene	13.292	119	182981	19.528	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	93913	19.684	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	92534	19.632	ug/l		99
89) n-Butylbenzene	13.615	91	171802	19.483	ug/l		99
90) Hexachloroethane	13.883	117	37407	19.112	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	82600	19.760	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5991	20.694	ug/l		92
93) 1,2,4-Trichlorobenzene	14.919	180	48418	18.978	ug/l		99
94) Hexachlorobutadiene	15.023	225	30957	19.273	ug/l		99
95) Naphthalene	15.145	128	78577	18.594	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	41048	19.042	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 00:40:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

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

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

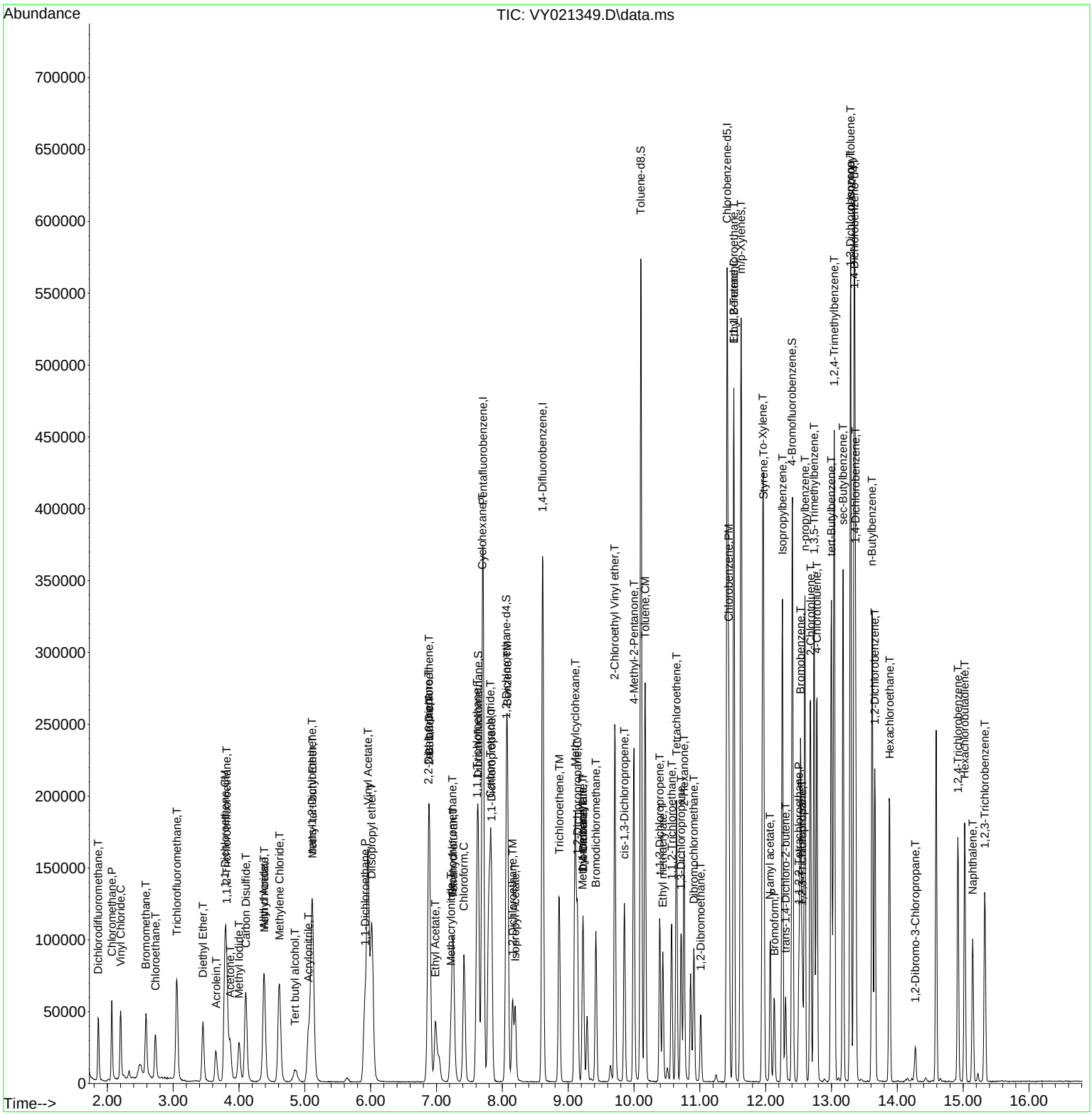
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 00:40:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025



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Manual Integration Report

Sequence:	VY022525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY021309.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:25 AM	MMDadoda	2/26/2025 1:44:30 PM	Peak Integrated by Software
VSTDICC005	VY021309.D	Methacrylonitrile	Romaben	2/26/2025 10:45:25 AM	MMDadoda	2/26/2025 1:44:30 PM	Peak Integrated by Software
VSTDICC010	VY021310.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:29 AM	MMDadoda	2/26/2025 1:44:32 PM	Peak Integrated by Software
VSTDICC020	VY021311.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:33 AM	MMDadoda	2/26/2025 1:44:34 PM	Peak Integrated by Software
VSTDICCC050	VY021312.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:52 AM	MMDadoda	2/26/2025 1:44:36 PM	Peak Integrated by Software
VSTDICC150	VY021314.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:40 AM	MMDadoda	2/26/2025 1:44:39 PM	Peak Integrated by Software
VSTDICC100	VY021316.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:43 AM	MMDadoda	2/26/2025 1:44:41 PM	Peak Integrated by Software
VSTDICV050	VY021317.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:47 AM	MMDadoda	2/26/2025 1:44:42 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY022725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021346.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:30 AM	SAM	2/28/2025 11:10:54 AM	Peak Integrated by Software
VY0227SBS01	VY021348.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:33 AM	SAM	2/28/2025 11:10:55 AM	Peak Integrated by Software
VY0227SBS01	VY021348.D	Methacrylonitrile	MMDadoda	2/28/2025 11:07:33 AM	SAM	2/28/2025 11:10:55 AM	Peak Integrated by Software
VY0227SBSD01	VY021349.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:34 AM	SAM	2/28/2025 11:10:56 AM	Peak Integrated by Software
VY0227SBSD01	VY021349.D	Tert butyl alcohol	MMDadoda	2/28/2025 11:07:34 AM	SAM	2/28/2025 11:10:56 AM	Peak Integrated by Software
VSTDCCC050	VY021373.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:40 AM	SAM	2/28/2025 11:10:58 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY022825	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021375.D	1,2,3-Trichloropropane	JOHN	3/3/2025 12:11:25 PM	MMDadoda	3/3/2025 1:50:26 PM	Peak Integrated by Software
VY0228SBS01	VY021377.D	1,2,3-Trichloropropane	JOHN	3/3/2025 12:11:30 PM	MMDadoda	3/3/2025 1:50:26 PM	Peak Integrated by Software
VY0228SBS01	VY021377.D	Methacrylonitrile	JOHN	3/3/2025 12:11:30 PM	MMDadoda	3/3/2025 1:50:26 PM	Peak Integrated by Software
VSTDCCC050	VY021394.D	1,2,3-Trichloropropane	JOHN	3/3/2025 12:11:49 PM	MMDadoda	3/3/2025 1:50:32 PM	Peak Integrated by Software
VSTDCCC050	VY021394.D	Methacrylonitrile	JOHN	3/3/2025 12:11:49 PM	MMDadoda	3/3/2025 1:50:32 PM	Peak Integrated by Software

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022525

Review By	Mahesh Dadoda	Review On	2/26/2025 1:45:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/26/2025 1:46:55 PM		
SubDirectory	VY022525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133154
Initial Calibration Stds	VP133137,VP133140,VP133143,VP133146,VP133147,VP133149
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021308.D	25 Feb 2025 12:10	SY/MD	Ok
2	VSTDICC005	VY021309.D	25 Feb 2025 12:40	SY/MD	Ok,M
3	VSTDICC010	VY021310.D	25 Feb 2025 13:03	SY/MD	Ok,M
4	VSTDICC020	VY021311.D	25 Feb 2025 13:26	SY/MD	Ok,M
5	VSTDICCC050	VY021312.D	25 Feb 2025 14:48	SY/MD	Ok,M
6	VSTDICC100	VY021313.D	25 Feb 2025 15:34	SY/MD	Not Ok
7	VSTDICC150	VY021314.D	25 Feb 2025 15:57	SY/MD	Ok,M
8	VIBLK	VY021315.D	25 Feb 2025 16:24	SY/MD	Ok
9	VSTDICC100	VY021316.D	25 Feb 2025 16:49	SY/MD	Ok,M
10	VSTDICV050	VY021317.D	25 Feb 2025 17:31	SY/MD	Ok,M
11	VIBLK	VY021318.D	25 Feb 2025 17:54	SY/MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021345.D	27 Feb 2025 09:41	SY/MD	Ok
2	VSTDCCC050	VY021346.D	27 Feb 2025 10:13	SY/MD	Ok,M
3	VY0227SBL01	VY021347.D	27 Feb 2025 10:42	SY/MD	Ok
4	VY0227SBS01	VY021348.D	27 Feb 2025 11:18	SY/MD	Ok,M
5	VY0227SBSD01	VY021349.D	27 Feb 2025 11:40	SY/MD	Ok,M
6	Q1428-01	VY021350.D	27 Feb 2025 12:04	SY/MD	ReRun
7	Q1442-03	VY021351.D	27 Feb 2025 12:28	SY/MD	Ok
8	Q1416-01RE	VY021352.D	27 Feb 2025 12:51	SY/MD	Confirms
9	Q1428-01RE	VY021353.D	27 Feb 2025 13:14	SY/MD	Confirms
10	Q1418-01	VY021354.D	27 Feb 2025 13:38	SY/MD	Not Ok
11	Q1415-03RE	VY021355.D	27 Feb 2025 14:01	SY/MD	Confirms
12	Q1422-02	VY021356.D	27 Feb 2025 14:25	SY/MD	ReRun
13	Q1422-01	VY021357.D	27 Feb 2025 14:48	SY/MD	ReRun
14	Q1421-09	VY021358.D	27 Feb 2025 15:12	SY/MD	ReRun
15	Q1421-07	VY021359.D	27 Feb 2025 15:35	SY/MD	ReRun
16	Q1421-01	VY021360.D	27 Feb 2025 15:58	SY/MD	Ok
17	Q1427-01RE	VY021361.D	27 Feb 2025 16:22	SY/MD	Confirms
18	Q1420-07	VY021362.D	27 Feb 2025 16:45	SY/MD	Ok
19	Q1411-03	VY021363.D	27 Feb 2025 17:09	SY/MD	Not Ok
20	Q1411-01	VY021364.D	27 Feb 2025 17:32	SY/MD	Ok
21	Q1440-01	VY021365.D	27 Feb 2025 17:55	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1448-01	VY021366.D	27 Feb 2025 18:19	SY/MD	ReRun
23	Q1448-02	VY021367.D	27 Feb 2025 18:42	SY/MD	ReRun
24	Q1448-03	VY021368.D	27 Feb 2025 19:06	SY/MD	ReRun
25	Q1448-04	VY021369.D	27 Feb 2025 19:29	SY/MD	Dilution
26	Q1448-05	VY021370.D	27 Feb 2025 19:52	SY/MD	ReRun
27	Q1421-02MS	VY021371.D	27 Feb 2025 20:15	SY/MD	Ok,M
28	Q1421-03MSD	VY021372.D	27 Feb 2025 20:38	SY/MD	Ok,M
29	VSTDCCC050	VY021373.D	27 Feb 2025 21:01	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022825

Review By	John Carlone	Review On	3/3/2025 12:12:17 PM				
Supervise By	Mahesh Dadoda	Supervise On	3/3/2025 1:51:10 PM				
SubDirectory	VY022825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133182
Initial Calibration Stds	
CCC	VP133183,VP133184
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021374.D	28 Feb 2025 09:03	SY/MD	Ok
2	VSTDCCC050	VY021375.D	28 Feb 2025 09:44	SY/MD	Ok,M
3	VY0228SBL01	VY021376.D	28 Feb 2025 10:59	SY/MD	Ok
4	VY0228SBS01	VY021377.D	28 Feb 2025 11:32	SY/MD	Ok,M
5	VY0228SBSD01	VY021378.D	28 Feb 2025 11:55	SY/MD	Ok,M
6	Q1421-07RE	VY021379.D	28 Feb 2025 12:56	SY/MD	Confirms
7	Q1422-01RE	VY021380.D	28 Feb 2025 13:20	SY/MD	Confirms
8	Q1422-02	VY021381.D	28 Feb 2025 15:31	SY/MD	Ok
9	Q1448-01	VY021382.D	28 Feb 2025 15:55	SY/MD	ReRun
10	Q1448-02	VY021383.D	28 Feb 2025 16:18	SY/MD	ReRun
11	Q1448-03	VY021384.D	28 Feb 2025 16:41	SY/MD	ReRun
12	Q1448-05	VY021385.D	28 Feb 2025 17:05	SY/MD	ReRun
13	Q1440-01	VY021386.D	28 Feb 2025 17:28	SY/MD	Ok
14	Q1441-01	VY021387.D	28 Feb 2025 17:52	SY/MD	ReRun
15	Q1458-02	VY021388.D	28 Feb 2025 18:15	SY/MD	Ok,M
16	Q1463-01	VY021389.D	28 Feb 2025 18:38	SY/MD	ReRun
17	Q1457-01	VY021390.D	28 Feb 2025 19:02	SY/MD	Ok
18	Q1463-03	VY021391.D	28 Feb 2025 19:25	SY/MD	ReRun
19	Q1463-04	VY021392.D	28 Feb 2025 19:49	SY/MD	ReRun
20	Q1463-05	VY021393.D	28 Feb 2025 20:12	SY/MD	ReRun
21	VSTDCCC050	VY021394.D	28 Feb 2025 20:35	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022525

Review By	Mahesh Dadoda	Review On	2/26/2025 1:45:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/26/2025 1:46:55 PM		
SubDirectory	VY022525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133154
Initial Calibration Stds	VP133137,VP133140,VP133143,VP133146,VP133147,VP133149
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021308.D	25 Feb 2025 12:10		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021309.D	25 Feb 2025 12:40		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021310.D	25 Feb 2025 13:03		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021311.D	25 Feb 2025 13:26	Acrolein fail for method	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021312.D	25 Feb 2025 14:48		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021313.D	25 Feb 2025 15:34	Not used	SY/MD	Not Ok
7	VSTDICC150	VSTDICC150	VY021314.D	25 Feb 2025 15:57		SY/MD	Ok,M
8	VIBLK	VIBLK	VY021315.D	25 Feb 2025 16:24		SY/MD	Ok
9	VSTDICC100	VSTDICC100	VY021316.D	25 Feb 2025 16:49		SY/MD	Ok,M
10	VSTDICV050	ICVVY022525	VY021317.D	25 Feb 2025 17:31	ICV Failed for comp. #10	SY/MD	Ok,M
11	VIBLK	VIBLK	VY021318.D	25 Feb 2025 17:54		SY/MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021345.D	27 Feb 2025 09:41		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021346.D	27 Feb 2025 10:13		SY/MD	Ok,M
3	VY0227SBL01	VY0227SBL01	VY021347.D	27 Feb 2025 10:42		SY/MD	Ok
4	VY0227SBS01	VY0227SBS01	VY021348.D	27 Feb 2025 11:18		SY/MD	Ok,M
5	VY0227SBSD01	VY0227SBSD01	VY021349.D	27 Feb 2025 11:40		SY/MD	Ok,M
6	Q1428-01	NB-07-022525	VY021350.D	27 Feb 2025 12:04	Vial-A ISTD Fail	SY/MD	ReRun
7	Q1442-03	351	VY021351.D	27 Feb 2025 12:28	Vial-A	SY/MD	Ok
8	Q1416-01RE	OK-01-022425RE	VY021352.D	27 Feb 2025 12:51	Vial-B ISTD Fail	SY/MD	Confirms
9	Q1428-01RE	NB-07-022525RE	VY021353.D	27 Feb 2025 13:14	Vial-B Internal Standard Fail	SY/MD	Confirms
10	Q1418-01	TR-06-02242025	VY021354.D	27 Feb 2025 13:38	Vial-B Not purge	SY/MD	Not Ok
11	Q1415-03RE	B-163-SB02RE	VY021355.D	27 Feb 2025 14:01	Vial-B Internal standard fail;Not match for com.#20	SY/MD	Confirms
12	Q1422-02	B-154-SB02	VY021356.D	27 Feb 2025 14:25	Vial-A Internal standard fail	SY/MD	ReRun
13	Q1422-01	B-154-SB01	VY021357.D	27 Feb 2025 14:48	Vial-A Internal standard fail	SY/MD	ReRun
14	Q1421-09	P001-CLAY-CF02-01	VY021358.D	27 Feb 2025 15:12	Internal Standard Fail	SY/MD	ReRun
15	Q1421-07	P001-CLAY-CF01-02	VY021359.D	27 Feb 2025 15:35	Vial-A Internal standard fail	SY/MD	ReRun
16	Q1421-01	P001-CLAY-CF01-01	VY021360.D	27 Feb 2025 15:58	Vial-A Internal standard fail	SY/MD	Ok
17	Q1427-01RE	VNJ-227RE	VY021361.D	27 Feb 2025 16:22	Vial-B Internal standard fail;Surrogate fail	SY/MD	Confirms

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1420-07	TP-2-WC-VOC	VY021362.D	27 Feb 2025 16:45	Vial-B	SY/MD	Ok
19	Q1411-03	HR-03-02212025	VY021363.D	27 Feb 2025 17:09	Vial-B Not purge	SY/MD	Not Ok
20	Q1411-01	HR-02-02212025	VY021364.D	27 Feb 2025 17:32	Vial-B Internal standard fail	SY/MD	Ok
21	Q1440-01	OR-02-022625	VY021365.D	27 Feb 2025 17:55	Vial-A Internal standard fail	SY/MD	ReRun
22	Q1448-01	PSP1	VY021366.D	27 Feb 2025 18:19	Vial-A Internal standard fail	SY/MD	ReRun
23	Q1448-02	P1	VY021367.D	27 Feb 2025 18:42	Vial-A Internal standard fail	SY/MD	ReRun
24	Q1448-03	P2	VY021368.D	27 Feb 2025 19:06	Vial-A Internal standard fail	SY/MD	ReRun
25	Q1448-04	P3	VY021369.D	27 Feb 2025 19:29	Vial-A Internal standard fail;Need MeOH	SY/MD	Dilution
26	Q1448-05	P4	VY021370.D	27 Feb 2025 19:52	Vial-A Internal standard fail	SY/MD	ReRun
27	Q1421-02MS	P001-CLAY-CF01-01M	VY021371.D	27 Feb 2025 20:15	Vial-A Internal standard fail	SY/MD	Ok,M
28	Q1421-03MSD	P001-CLAY-CF01-01M	VY021372.D	27 Feb 2025 20:38	Vial-A Internal standard fail	SY/MD	Ok,M
29	VSTDCCC050	VSTDCCC050EC	VY021373.D	27 Feb 2025 21:01		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022825

Review By	John Carlone	Review On	3/3/2025 12:12:17 PM		
Supervise By	Mahesh Dadoda	Supervise On	3/3/2025 1:51:10 PM		
SubDirectory	VY022825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133182
Initial Calibration Stds	
CCC	VP133183,VP133184
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021374.D	28 Feb 2025 09:03		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021375.D	28 Feb 2025 09:44	CCAL failed low for comp. #11; CCAL failed high for comp. #16	SY/MD	Ok,M
3	VY0228SBL01	VY0228SBL01	VY021376.D	28 Feb 2025 10:59		SY/MD	Ok
4	VY0228SBS01	VY0228SBS01	VY021377.D	28 Feb 2025 11:32		SY/MD	Ok,M
5	VY0228SBSD01	VY0228SBSD01	VY021378.D	28 Feb 2025 11:55		SY/MD	Ok,M
6	Q1421-07RE	P001-CLAY-CF01-02RE	VY021379.D	28 Feb 2025 12:56	Vial-B Internal Standard Fail; Not match for comp.#16	SY/MD	Confirms
7	Q1422-01RE	B-154-SB01RE	VY021380.D	28 Feb 2025 13:20	Vial-B Internal Standard Fail	SY/MD	Confirms
8	Q1422-02	B-154-SB02	VY021381.D	28 Feb 2025 15:31	Vial-B	SY/MD	Ok
9	Q1448-01	PSP1	VY021382.D	28 Feb 2025 15:55	Vial-B CCAL failed low for comp. #11	SY/MD	ReRun
10	Q1448-02	P1	VY021383.D	28 Feb 2025 16:18	Vial-B CCAL failed low for comp. #11	SY/MD	ReRun
11	Q1448-03	P2	VY021384.D	28 Feb 2025 16:41	Vial-B CCAL failed low for comp. #11	SY/MD	ReRun
12	Q1448-05	P4	VY021385.D	28 Feb 2025 17:05	Vial-B CCAL failed low for comp. #11; CCAL failed high for comp. #16	SY/MD	ReRun
13	Q1440-01	OR-02-022625	VY021386.D	28 Feb 2025 17:28	Vial-B	SY/MD	Ok
14	Q1441-01	HD-02-022625	VY021387.D	28 Feb 2025 17:52	Vial-B Internal Standard Fail	SY/MD	ReRun
15	Q1458-02	SP-SOIL-VOC	VY021388.D	28 Feb 2025 18:15	vial-A	SY/MD	Ok,M
16	Q1463-01	T1	VY021389.D	28 Feb 2025 18:38	Vial-A CCAL failed low for comp. #11	SY/MD	ReRun

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 # VY022825

Review By	John Carlone	Review On	3/3/2025 12:12:17 PM		
Supervise By	Mahesh Dadoda	Supervise On	3/3/2025 1:51:10 PM		
SubDirectory	VY022825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133182
Initial Calibration Stds	
CCC	VP133183,VP133184
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q1457-01	HR-0-02272025	VY021390.D	28 Feb 2025 19:02	Vial-A	SY/MD	Ok
18	Q1463-03	T3	VY021391.D	28 Feb 2025 19:25	Vial-A Internal Standard Fail; CCAL failed low for comp. #11; CCAL failed high for comp.#16	SY/MD	ReRun
19	Q1463-04	T4	VY021392.D	28 Feb 2025 19:49	Vial-A CCAL failed low for comp. #11	SY/MD	ReRun
20	Q1463-05	T5	VY021393.D	28 Feb 2025 20:12	Vial-A Internal Standard Fail; CCAL failed low for comp. #11; CCAL failed high for comp.#16	SY/MD	ReRun
21	VSTDCCC050	VSTDCCC050EC	VY021394.D	28 Feb 2025 20:35		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1422	**OrderDate:**	2/25/2025 10:47:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H33,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1422-01	**B-154-SB01**	**SOIL**			**02/23/25**			**02/25/25**
			VOC-TCLVOA-10	8260D			02/27/25	
Q1422-01RE	**B-154-SB01RE**	**SOIL**			**02/23/25**			**02/25/25**
			VOC-TCLVOA-10	8260D			02/28/25	
Q1422-02	**B-154-SB02**	**SOIL**			**02/23/25**			**02/25/25**
			VOC-TCLVOA-10	8260D			02/28/25	