

Hit Summary Sheet SW-846

SDG No.: P5299

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SB-01							
P5299-01	SB-01	SOIL	unknown13.670	* 12.2	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	unknown15.054	* 6.40	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	Dodecane	* 7.70	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	Tridecane	* 7.80	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	Tetradecane	* 8.30	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	Naphthalene, decahydro-2,6-di	* 8.90	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	Dodecane, 4,6-dimethyl-	* 7.50	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	trans,trans-1,6-Dimethylspiro[4	* 8.70	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	trans-Decalin, 2-methyl-	* 11.8	J	0	0	ug/Kg
Total Tics :				79.3				
Total Concentration:				79.3				
Client ID:	SB-02							
P5299-02	SB-02	SOIL	Acetone	51.1		5.70	22.9	ug/Kg
P5299-02	SB-02	SOIL	Methylene Chloride	4.90	J	3.10	9.20	ug/Kg
P5299-02	SB-02	SOIL	2-Butanone	10.1	J	5.20	22.9	ug/Kg
Total Voc :				66.1				
P5299-02	SB-02	SOIL	unknown1.812	* 75.9	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Dodecane	* 160	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Tridecane	* 200	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Tetradecane	* 180	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Undecane	* 140	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Dodecane, 2-methyl-	* 72.5	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Octane, 2,6-dimethyl-	* 120	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Dodecane, 2,6,10-trimethyl-	* 88.3	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Undecane, 2,6-dimethyl-	* 120	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	trans-Decalin, 2-methyl-	* 130	J	0	0	ug/Kg
Total Tics :				1290				
Total Concentration:				1350				
Client ID:	SB-01							
P5299-03	SB-01	SOIL	Acetone	85.6		7.90	31.7	ug/Kg
P5299-03	SB-01	SOIL	Carbon Disulfide	3.70	J	1.60	6.30	ug/Kg
P5299-03	SB-01	SOIL	2-Butanone	22.5	J	7.20	31.7	ug/Kg
Total Voc :				112				
P5299-03	SB-01	SOIL	unknown1.812	* 30.8	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	unknown14.645	* 9.00	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	unknown15.120	* 10.1	J	0	0	ug/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P5299-03	SB-01	SOIL	Dodecane	* 8.40	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	Tridecane	* 13.9	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	Tetradecane	* 15.3	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	Pentadecane	* 49.7	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	Naphthalene, decahydro-1,5-di	* 7.50	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	Cyclodecene, 1-methyl-	* 6.80	J	0	0	ug/Kg
Total Tics :						152		
Total Concentration:						263		
Client ID:	SB-02							
P5299-04	SB-02	SOIL	Acetone	32.2		5.80	23.3	ug/Kg
P5299-04	SB-02	SOIL	2-Butanone	7.60	J	5.30	23.3	ug/Kg
Total Voc :						39.8		
P5299-04	SB-02	SOIL	unknown15.054	* 46.2	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Dodecane	* 99.9	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Tridecane	* 110	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Tetradecane	* 92.8	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Undecane	* 110	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Naphthalene, decahydro-2-metl	* 82.8	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Undecane, 2,6-dimethyl-	* 80.4	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Dodecane, 2,6,11-trimethyl-	* 45.9	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Dodecane, 4,6-dimethyl-	* 71.9	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	cis,trans-1,6-Dimethylspiro[4.5	* 45.9	J	0	0	ug/Kg
Total Tics :						786		
Total Concentration:						826		



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/14/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78.5
Sample Wt/Vol:	6.95 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
VY020642.D	1		12/18/24 17:38	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.60	ug/Kg
74-83-9	Bromomethane	0.94	U	0.94	4.60	ug/Kg
75-00-3	Chloroethane	0.93	U	0.93	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.83	U	0.83	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.98	U	0.98	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.71	U	0.71	4.60	ug/Kg
67-64-1	Acetone	5.70	U	5.70	22.9	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.61	U	0.61	4.60	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	4.60	ug/Kg
75-09-2	Methylene Chloride	3.10	U	3.10	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.77	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.58	U	0.58	4.60	ug/Kg
110-82-7	Cyclohexane	0.63	U	0.63	4.60	ug/Kg
78-93-3	2-Butanone	5.20	U	5.20	22.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.56	U	0.56	4.60	ug/Kg
74-97-5	Bromochloromethane	2.20	U	2.20	4.60	ug/Kg
67-66-3	Chloroform	0.61	U	0.61	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.71	U	0.71	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.80	U	0.80	4.60	ug/Kg
71-43-2	Benzene	0.66	U	0.66	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.56	U	0.56	4.60	ug/Kg
79-01-6	Trichloroethene	0.69	U	0.69	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.60	U	0.60	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.51	U	0.51	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	22.9	ug/Kg
108-88-3	Toluene	0.61	U	0.61	4.60	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/14/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78.5
Sample Wt/Vol:	6.95 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
VY020642.D	1		12/18/24 17:38	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.55	U	0.55	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.52	U	0.52	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.77	U	0.77	4.60	ug/Kg
591-78-6	2-Hexanone	4.40	U	4.40	22.9	ug/Kg
124-48-1	Dibromochloromethane	0.60	U	0.60	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.72	U	0.72	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.82	U	0.82	4.60	ug/Kg
108-90-7	Chlorobenzene	0.68	U	0.68	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.57	U	0.57	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.20	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	4.60	ug/Kg
100-42-5	Styrene	0.55	U	0.55	4.60	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.61	U	0.61	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.68	U	0.68	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.73	U	0.73	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.54	U	0.54	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.72	U	0.72	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.71	U	0.71	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		70 (50) - 130 (163)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	45.8		70 (54) - 130 (147)	92%	SPK: 50
2037-26-5	Toluene-d8	48.4		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.7		70 (29) - 130 (146)	77%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	234000	7.707			
540-36-3	1,4-Difluorobenzene	408000	8.609			
3114-55-4	Chlorobenzene-d5	352000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.346			

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/14/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78.5
Sample Wt/Vol:	6.95 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
VY020642.D	1		12/18/24 17:38	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown13.670	12.2	J		13.7	ug/Kg
1000152-47-3	trans-Decalin, 2-methyl-	11.8	J		14.2	ug/Kg
000112-40-3	Dodecane	7.70	J		14.5	ug/Kg
001618-22-0	Naphthalene, decahydro-2,6-dimethy	8.90	J		14.7	ug/Kg
1000111-72-1	trans,trans-1,6-Dimethylspiro[4.5]	8.70	J		14.8	ug/Kg
	unknown15.054	6.40	J		15.1	ug/Kg
061141-72-8	Dodecane, 4,6-dimethyl-	7.50	J		15.1	ug/Kg
000629-50-5	Tridecane	7.80	J		15.3	ug/Kg
000629-59-4	Tetradecane	8.30	J		16.3	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

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	12/15/24	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	12/16/24	
Client Sample ID:	SB-02		SDG No.:	P5299	
Lab Sample ID:	P5299-02		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	75.5	
Sample Wt/Vol:	7.22	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
VY020639.D	1		12/18/24 16:27	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.60	ug/Kg
74-83-9	Bromomethane	0.94	U	0.94	4.60	ug/Kg
75-00-3	Chloroethane	0.93	U	0.93	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.83	U	0.83	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.98	U	0.98	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.72	U	0.72	4.60	ug/Kg
67-64-1	Acetone	51.1		5.70	22.9	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.61	U	0.61	4.60	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	4.60	ug/Kg
75-09-2	Methylene Chloride	4.90	J	3.10	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.77	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.58	U	0.58	4.60	ug/Kg
110-82-7	Cyclohexane	0.63	U	0.63	4.60	ug/Kg
78-93-3	2-Butanone	10.1	J	5.20	22.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.56	U	0.56	4.60	ug/Kg
74-97-5	Bromochloromethane	2.20	U	2.20	4.60	ug/Kg
67-66-3	Chloroform	0.61	U	0.61	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.72	U	0.72	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.80	U	0.80	4.60	ug/Kg
71-43-2	Benzene	0.66	U	0.66	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.56	U	0.56	4.60	ug/Kg
79-01-6	Trichloroethene	0.69	U	0.69	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.61	U	0.61	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.51	U	0.51	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	22.9	ug/Kg
108-88-3	Toluene	0.61	U	0.61	4.60	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-02	SDG No.:	P5299
Lab Sample ID:	P5299-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75.5
Sample Wt/Vol:	7.22 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
VY020639.D	1		12/18/24 16:27	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown1.812	75.9	J		1.81	ug/Kg
001120-21-4	Undecane	140	J		13.7	ug/Kg
1000152-47-3	trans-Decalin, 2-methyl-	130	J		14.2	ug/Kg
000112-40-3	Dodecane	160	J		14.5	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	120	J		14.7	ug/Kg
001560-97-0	Dodecane, 2-methyl-	72.5	J		15.1	ug/Kg
002051-30-1	Octane, 2,6-dimethyl-	120	J		15.1	ug/Kg
000629-50-5	Tridecane	200	J		15.3	ug/Kg
003891-98-3	Dodecane, 2,6,10-trimethyl-	88.3	J		16.1	ug/Kg
000629-59-4	Tetradecane	180	J		16.3	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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	68.8
Sample Wt/Vol:	5.73 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
VY020640.D	1		12/18/24 16:51	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.10	U	2.10	6.30	ug/Kg
74-87-3	Chloromethane	1.50	U	1.50	6.30	ug/Kg
75-01-4	Vinyl Chloride	0.98	U	0.98	6.30	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.30	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	6.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	6.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.99	U	0.99	6.30	ug/Kg
67-64-1	Acetone	85.6		7.90	31.7	ug/Kg
75-15-0	Carbon Disulfide	3.70	J	1.60	6.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.85	U	0.85	6.30	ug/Kg
79-20-9	Methyl Acetate	2.30	U	2.30	6.30	ug/Kg
75-09-2	Methylene Chloride	4.30	U	4.30	12.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	6.30	ug/Kg
110-82-7	Cyclohexane	0.88	U	0.88	6.30	ug/Kg
78-93-3	2-Butanone	22.5	J	7.20	31.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	6.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.77	U	0.77	6.30	ug/Kg
74-97-5	Bromochloromethane	3.10	U	3.10	6.30	ug/Kg
67-66-3	Chloroform	0.85	U	0.85	6.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	6.30	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.30	ug/Kg
71-43-2	Benzene	0.91	U	0.91	6.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.77	U	0.77	6.30	ug/Kg
79-01-6	Trichloroethene	0.95	U	0.95	6.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	6.30	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	6.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.50	U	5.50	31.7	ug/Kg
108-88-3	Toluene	0.85	U	0.85	6.30	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	12/15/24	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	12/16/24	
Client Sample ID:	SB-01		SDG No.:	P5299	
Lab Sample ID:	P5299-03		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	68.8	
Sample Wt/Vol:	5.73	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
VY020640.D	1		12/18/24 16:51	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.76	U	0.76	6.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.72	U	0.72	6.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.30	ug/Kg
591-78-6	2-Hexanone	6.10	U	6.10	31.7	ug/Kg
124-48-1	Dibromochloromethane	0.82	U	0.82	6.30	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	6.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	6.30	ug/Kg
108-90-7	Chlorobenzene	0.94	U	0.94	6.30	ug/Kg
100-41-4	Ethyl Benzene	0.79	U	0.79	6.30	ug/Kg
179601-23-1	m/p-Xylenes	1.70	U	1.70	12.7	ug/Kg
95-47-6	o-Xylene	0.89	U	0.89	6.30	ug/Kg
100-42-5	Styrene	0.76	U	0.76	6.30	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	6.30	ug/Kg
98-82-8	Isopropylbenzene	0.85	U	0.85	6.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	6.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.94	U	0.94	6.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.00	U	1.00	6.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.75	U	0.75	6.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	6.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	6.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.99	U	0.99	6.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.6		70 (50) - 130 (163)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	43.6		70 (54) - 130 (147)	87%	SPK: 50
2037-26-5	Toluene-d8	49.2		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.0		70 (29) - 130 (146)	80%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	224000	7.707			
540-36-3	1,4-Difluorobenzene	392000	8.609			
3114-55-4	Chlorobenzene-d5	338000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.346			

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	68.8
Sample Wt/Vol:	5.73 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
VY020640.D	1		12/18/24 16:51	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown1.812	30.8	J		1.81	ug/Kg
000629-62-9	Pentadecane	49.7	J		12.2	ug/Kg
000112-40-3	Dodecane	8.40	J		14.5	ug/Kg
	unknown14.645	9.00	J		14.6	ug/Kg
066633-38-3	Cyclodecene, 1-methyl-	6.80	J		14.8	ug/Kg
066552-62-3	Naphthalene, decahydro-1,5-dimethy	7.50	J		15.1	ug/Kg
	unknown15.120	10.1	J		15.1	ug/Kg
000629-50-5	Tridecane	13.9	J		15.3	ug/Kg
000629-59-4	Tetradecane	15.3	J		16.3	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

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	12/15/24	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	12/16/24	
Client Sample ID:	SB-02		SDG No.:	P5299	
Lab Sample ID:	P5299-04		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	79.2	
Sample Wt/Vol:	6.77	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
VY020635.D	1		12/18/24 14:54	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.72	U	0.72	4.70	ug/Kg
74-83-9	Bromomethane	0.96	U	0.96	4.70	ug/Kg
75-00-3	Chloroethane	0.94	U	0.94	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.85	U	0.85	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.73	U	0.73	4.70	ug/Kg
67-64-1	Acetone	32.2		5.80	23.3	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.62	U	0.62	4.70	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	4.70	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.78	U	0.78	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.59	U	0.59	4.70	ug/Kg
110-82-7	Cyclohexane	0.64	U	0.64	4.70	ug/Kg
78-93-3	2-Butanone	7.60	J	5.30	23.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.81	U	0.81	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.57	U	0.57	4.70	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	4.70	ug/Kg
67-66-3	Chloroform	0.62	U	0.62	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.73	U	0.73	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.81	U	0.81	4.70	ug/Kg
71-43-2	Benzene	0.67	U	0.67	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.57	U	0.57	4.70	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.62	U	0.62	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.52	U	0.52	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.10	U	4.10	23.3	ug/Kg
108-88-3	Toluene	0.62	U	0.62	4.70	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-02	SDG No.:	P5299
Lab Sample ID:	P5299-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	79.2
Sample Wt/Vol:	6.77	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :	ID : 0.25		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020635.D	1		12/18/24 14:54	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.78	U	0.78	4.70	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	23.3	ug/Kg
124-48-1	Dibromochloromethane	0.61	U	0.61	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.74	U	0.74	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.83	U	0.83	4.70	ug/Kg
108-90-7	Chlorobenzene	0.69	U	0.69	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.30	ug/Kg
95-47-6	o-Xylene	0.65	U	0.65	4.70	ug/Kg
100-42-5	Styrene	0.56	U	0.56	4.70	ug/Kg
75-25-2	Bromoform	0.76	U	0.76	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.62	U	0.62	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.69	U	0.69	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.75	U	0.75	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.55	U	0.55	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.74	U	0.74	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.73	U	0.73	4.70	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	58.5	70 (50) - 130 (163)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	40.3	70 (54) - 130 (147)	81%	SPK: 50
2037-26-5	Toluene-d8	48.7	70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.0	70 (29) - 130 (146)	82%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	158000	7.707
540-36-3	1,4-Difluorobenzene	310000	8.61
3114-55-4	Chlorobenzene-d5	270000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	117000	13.347

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-02	SDG No.:	P5299
Lab Sample ID:	P5299-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	79.2
Sample Wt/Vol:	6.77 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
VY020635.D	1		12/18/24 14:54	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
001120-21-4	Undecane	110	J		13.7	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	82.8	J		14.2	ug/Kg
000112-40-3	Dodecane	99.9	J		14.5	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	80.4	J		14.6	ug/Kg
1000111-72-3	cis,trans-1,6-Dimethylspiro[4.5]de	45.9	J		14.8	ug/Kg
	unknown15.054	46.2	J		15.1	ug/Kg
061141-72-8	Dodecane, 4,6-dimethyl-	71.9	J		15.1	ug/Kg
000629-50-5	Tridecane	110	J		15.3	ug/Kg
031295-56-4	Dodecane, 2,6,11-trimethyl-	45.9	J		16.0	ug/Kg
000629-59-4	Tetradecane	92.8	J		16.2	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

Surrogate Summary

SDG No.: **P5299**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5299-01	SB-01	1,2-Dichloroethane-d4	50	49.0	98	70 (50)	130 (163)
		Dibromofluoromethane	50	45.8	92	70 (54)	130 (147)
		Toluene-d8	50	48.4	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	38.7	77	70 (29)	130 (146)
P5299-02	SB-02	1,2-Dichloroethane-d4	50	49.8	100	70 (50)	130 (163)
		Dibromofluoromethane	50	45.2	90	70 (54)	130 (147)
		Toluene-d8	50	48.9	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	40.5	81	70 (29)	130 (146)
P5299-03	SB-01	1,2-Dichloroethane-d4	50	48.6	97	70 (50)	130 (163)
		Dibromofluoromethane	50	43.6	87	70 (54)	130 (147)
		Toluene-d8	50	49.2	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	40.0	80	70 (29)	130 (146)
P5299-04	SB-02	1,2-Dichloroethane-d4	50	58.5	117	70 (50)	130 (163)
		Dibromofluoromethane	50	40.3	81	70 (54)	130 (147)
		Toluene-d8	50	48.7	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	41.0	82	70 (29)	130 (146)
VY1218SBL01	VY1218SBL01	1,2-Dichloroethane-d4	50	49.7	99	70 (50)	130 (163)
		Dibromofluoromethane	50	44.7	89	70 (54)	130 (147)
		Toluene-d8	50	48.4	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	37.4	75	70 (29)	130 (146)
VY1218SBS01	VY1218SBS01	1,2-Dichloroethane-d4	50	48.4	97	70 (50)	130 (163)
		Dibromofluoromethane	50	48.3	97	70 (54)	130 (147)
		Toluene-d8	50	48.7	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	46.3	93	70 (29)	130 (146)
VY1218SBSD01	VY1218SBSD01	1,2-Dichloroethane-d4	50	51.7	103	70 (50)	130 (163)
		Dibromofluoromethane	50	50.1	100	70 (54)	130 (147)
		Toluene-d8	50	51.5	103	70 (58)	130 (134)
		4-Bromofluorobenzene	50	48.3	97	70 (29)	130 (146)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5299

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020626.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1218SBS01	Dichlorodifluoromethane	20	19.3	ug/Kg	97			40 (64)	160 (136)	
	Chloromethane	20	19.5	ug/Kg	98			40 (70)	160 (130)	
	Vinyl chloride	20	20.9	ug/Kg	104			70 (72)	130 (129)	
	Bromomethane	20	18.8	ug/Kg	94			40 (58)	160 (141)	
	Chloroethane	20	20.1	ug/Kg	101			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.4	ug/Kg	97			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	17.2	ug/Kg	86			70 (81)	130 (123)	
	1,1-Dichloroethene	20	16.8	ug/Kg	84			70 (79)	130 (121)	
	Acetone	100	77.9	ug/Kg	78			40 (60)	160 (131)	
	Carbon disulfide	20	17.5	ug/Kg	88			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.8	ug/Kg	99			70 (77)	130 (129)	
	Methyl Acetate	20	19.7	ug/Kg	99			70 (69)	130 (149)	
	Methylene Chloride	20	19.5	ug/Kg	98			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.0	ug/Kg	95			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.2	ug/Kg	96			70 (82)	130 (123)	
	Cyclohexane	20	18.8	ug/Kg	94			70 (76)	130 (122)	
	2-Butanone	100	90.8	ug/Kg	91			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.3	ug/Kg	97			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.2	ug/Kg	96			70 (82)	130 (123)	
	Bromochloromethane	20	17.0	ug/Kg	85			70 (80)	130 (127)	
	Chloroform	20	17.1	ug/Kg	86			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.4	ug/Kg	97			70 (80)	130 (126)	
	Methylcyclohexane	20	18.9	ug/Kg	95			70 (77)	130 (123)	
	Benzene	20	19.5	ug/Kg	98			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.6	ug/Kg	98			70 (81)	130 (126)	
	Trichloroethene	20	19.4	ug/Kg	97			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.8	ug/Kg	99			70 (83)	130 (122)	
	Bromodichloromethane	20	19.3	ug/Kg	97			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	97.1	ug/Kg	97			40 (70)	160 (135)	
	Toluene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.6	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	19.6	ug/Kg	98			70 (82)	130 (125)	
	2-Hexanone	100	98.0	ug/Kg	98			40 (66)	160 (138)	
	Dibromochloromethane	20	19.7	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.9	ug/Kg	100			70 (80)	130 (125)	
	Tetrachloroethene	20	18.7	ug/Kg	94			70 (83)	130 (125)	
	Chlorobenzene	20	19.3	ug/Kg	97			70 (84)	130 (122)	
	Ethyl Benzene	20	19.3	ug/Kg	97			70 (82)	130 (124)	
	m/p-Xylenes	40	38.3	ug/Kg	96			70 (83)	130 (124)	
	o-Xylene	20	19.1	ug/Kg	96			70 (83)	130 (123)	
	Styrene	20	19.5	ug/Kg	98			70 (82)	130 (124)	
	Bromoform	20	20.0	ug/Kg	100			70 (75)	130 (127)	
	Isopropylbenzene	20	19.1	ug/Kg	96			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/Kg	101			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	18.9	ug/Kg	95			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.4	ug/Kg	97			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5299

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020626.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1218SBS01	1,2-Dibromo-3-Chloropropane	20	19.2	ug/Kg	96			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.6	ug/Kg	93			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.8	ug/Kg	94			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5299

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020627.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1218SBSD01	Dichlorodifluoromethane	20	20.1	ug/Kg	101	4		40 (64)	160 (136)	30 (20)
	Chloromethane	20	18.8	ug/Kg	94	4		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	19.4	ug/Kg	97	7		70 (72)	130 (129)	30 (20)
	Bromomethane	20	20.9	ug/Kg	104	10		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.7	ug/Kg	99	2		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.7	ug/Kg	99	2		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.5	ug/Kg	98	13		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	19.2	ug/Kg	96	13		70 (79)	130 (121)	30 (20)
	Acetone	100	92.9	ug/Kg	93	18		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	20.5	ug/Kg	103	16		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.2	ug/Kg	106	7		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	21.3	ug/Kg	106	7		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	21.0	ug/Kg	105	7		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102	7		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.4	ug/Kg	107	11		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.9	ug/Kg	100	6		70 (76)	130 (122)	30 (20)
	2-Butanone	100	97.3	ug/Kg	97	6		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.2	ug/Kg	101	4		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104	8		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	18.2	ug/Kg	91	7		70 (80)	130 (127)	30 (20)
	Chloroform	20	18.9	ug/Kg	95	10		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104	7		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.5	ug/Kg	98	3		70 (77)	130 (123)	30 (20)
	Benzene	20	20.7	ug/Kg	104	6		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.7	ug/Kg	104	6		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.7	ug/Kg	104	7		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.9	ug/Kg	104	5		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.9	ug/Kg	104	7		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	97.7	ug/Kg	98	1		40 (70)	160 (135)	30 (20)
	Toluene	20	20.4	ug/Kg	102	5		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.7	ug/Kg	104	6		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.6	ug/Kg	103	6		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	21.0	ug/Kg	105	7		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	98.7	ug/Kg	99	1		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.6	ug/Kg	103	4		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.8	ug/Kg	104	4		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	20.0	ug/Kg	100	6		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.5	ug/Kg	103	6		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	20.3	ug/Kg	102	5		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	40.6	ug/Kg	102	6		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.6	ug/Kg	103	7		70 (83)	130 (123)	30 (20)
	Styrene	20	20.9	ug/Kg	104	6		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.7	ug/Kg	104	4		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	20.1	ug/Kg	101	5		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	21.0	ug/Kg	105	4		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.2	ug/Kg	101	5		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.3	ug/Kg	102	7		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104	7		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5299

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020627.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1218SBSD01	1,2-Dibromo-3-Chloropropane	20	19.6	ug/Kg	98	2		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99	6		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.1	ug/Kg	101	7		70 (70)	130 (137)	30 (20)

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1218SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P5299

SAS No.: P5299 SDG NO.: P5299

Lab File ID: VY020625.D

Lab Sample ID: VY1218SBL01

Date Analyzed: 12/18/2024

Time Analyzed: 10:52

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
VY1218SBS01	VY1218SBS01	VY020626.D	12/18/2024
VY1218SBSD01	VY1218SBSD01	VY020627.D	12/18/2024
SB-02	P5299-04	VY020635.D	12/18/2024
SB-02	P5299-02	VY020639.D	12/18/2024
SB-01	P5299-03	VY020640.D	12/18/2024
SB-01	P5299-01	VY020642.D	12/18/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P5299 SAS No.: P5299 SDG NO.: P5299
Lab File ID: VY020611.D BFB Injection Date: 12/17/2024
Instrument ID: MSVOA_Y BFB Injection Time: 09:00
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	19.8
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.3) 1
174	50.0 - 100.0% of mass 95	77.1
175	5.0 - 9.0% of mass 174	6.2 (8) 1
176	95.0 - 101.0% of mass 174	74.2 (96.3) 1
177	5.0 - 9.0% of mass 176	4.8 (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
VSTDIC010	VSTDIC010	VY020613.D	12/17/2024	10:01
VSTDIC020	VSTDIC020	VY020614.D	12/17/2024	10:23
VSTDIC050	VSTDIC050	VY020615.D	12/17/2024	10:51
VSTDIC100	VSTDIC100	VY020616.D	12/17/2024	11:14
VSTDIC150	VSTDIC150	VY020617.D	12/17/2024	11:37
VSTDIC005	VSTDIC005	VY020619.D	12/17/2024	14:51

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P5299 SAS No.: P5299 SDG NO.: P5299
Lab File ID: VY020622.D BFB Injection Date: 12/18/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:46
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	19.4
75	30.0 - 60.0% of mass 95	52.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	78.5
175	5.0 - 9.0% of mass 174	5.8 (7.4) 1
176	95.0 - 101.0% of mass 174	76.1 (97) 1
177	5.0 - 9.0% of mass 176	5.1 (6.7) 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	VY020624.D	12/18/2024	10:06
VY1218SBL01	VY1218SBL01	VY020625.D	12/18/2024	10:52
VY1218SBS01	VY1218SBS01	VY020626.D	12/18/2024	11:19
VY1218SBSD01	VY1218SBSD01	VY020627.D	12/18/2024	11:42
SB-02	P5299-04	VY020635.D	12/18/2024	14:54
SB-02	P5299-02	VY020639.D	12/18/2024	16:27
SB-01	P5299-03	VY020640.D	12/18/2024	16:51
SB-01	P5299-01	VY020642.D	12/18/2024	17:38

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P5299 SAS No.: P5299 SDG NO.: P5299
Lab File ID: VY020624.D Date Analyzed: 12/18/2024
Instrument ID: MSVOA_Y Time Analyzed: 10:06
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	168319	7.71	264221	8.62	226779	11.42
UPPER LIMIT	336638	8.213	528442	9.116	453558	11.92
LOWER LIMIT	84159.5	7.213	132111	8.116	113390	10.92
EPA SAMPLE NO.						
SB-01	233930	7.71	408249	8.61	351864	11.41
SB-02	192200	7.71	339150	8.62	294759	11.41
SB-01	223514	7.71	392391	8.61	337704	11.41
SB-02	157761	7.71	310451	8.61	269674	11.41
VY1218SBL01	201389	7.71	355898	8.62	296016	11.42
VY1218SBS01	167281	7.71	257615	8.62	226665	11.41
VY1218SBSD01	153098	7.71	244096	8.62	214944	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P5299 SAS No.: P5299 SDG NO.: P5299
 Lab File ID: VY020624.D Date Analyzed: 12/18/2024
 Instrument ID: MSVOA_Y Time Analyzed: 10:06
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	124266	13.347				
UPPER LIMIT	248532	13.847				
LOWER LIMIT	62133	12.847				
EPA SAMPLE NO.						
SB-01	141411	13.35				
SB-02	123499	13.35				
SB-01	138439	13.35				
SB-02	117196	13.35				
VY1218SBL01	114022	13.35				
VY1218SBS01	127451	13.35				
VY1218SBSD01	120747	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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1218SBL01	SDG No.:	P5299
Lab Sample ID:	VY1218SBL01	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
VY020625.D	1		12/18/24 10:52	VY121824

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1218SBL01	SDG No.:	P5299
Lab Sample ID:	VY1218SBL01	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
VY020625.D	1		12/18/24 10:52	VY121824

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	49.7	70 (50) - 130 (163)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	44.7	70 (54) - 130 (147)	89%	SPK: 50
2037-26-5	Toluene-d8	48.4	70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.4	70 (29) - 130 (146)	75%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	201000	7.713
540-36-3	1,4-Difluorobenzene	356000	8.616
3114-55-4	Chlorobenzene-d5	296000	11.42
3855-82-1	1,4-Dichlorobenzene-d4	114000	13.352

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1218SBL01		SDG No.:	P5299
Lab Sample ID:	VY1218SBL01		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
VY020625.D	1		12/18/24 10:52	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
001066-40-6	Silanol, trimethyl-	10.8	J		6.89	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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1218SBS01	SDG No.:	P5299
Lab Sample ID:	VY1218SBS01	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
VY020626.D	1		12/18/24 11:19	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.5		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.9		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.8		1.00	5.00	ug/Kg
75-00-3	Chloroethane	20.1		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.4		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	17.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	16.8		0.78	5.00	ug/Kg
67-64-1	Acetone	77.9		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.8		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.7		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.0		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.2		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.8		0.69	5.00	ug/Kg
78-93-3	2-Butanone	90.8		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.3		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.2		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.0		2.40	5.00	ug/Kg
67-66-3	Chloroform	17.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.4		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.9		0.87	5.00	ug/Kg
71-43-2	Benzene	19.5		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.6		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.8		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.3		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	97.1		4.40	25.0	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.6		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	19.6		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	98.0		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.7		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.3		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.3		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.3		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.1		0.70	5.00	ug/Kg
100-42-5	Styrene	19.5		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.1		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	18.9		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.4		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.6		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		70 (50) - 130 (163)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		70 (54) - 130 (147)	97%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		70 (29) - 130 (146)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	7.707			
540-36-3	1,4-Difluorobenzene	258000	8.616			
3114-55-4	Chlorobenzene-d5	227000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1218SBS01		SDG No.:	P5299
Lab Sample ID:	VY1218SBS01		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
VY020626.D	1		12/18/24 11:19	VY121824

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1218SBSD01	SDG No.:	P5299
Lab Sample ID:	VY1218SBSD01	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
VY020627.D	1		12/18/24 11:42	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.1		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.8		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.9		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.7		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.7		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.2		0.78	5.00	ug/Kg
67-64-1	Acetone	92.9		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.2		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	21.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.0		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.4		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.9		0.69	5.00	ug/Kg
78-93-3	2-Butanone	97.3		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.2		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.8		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	18.2		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	20.8		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.5		0.87	5.00	ug/Kg
71-43-2	Benzene	20.7		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.7		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.7		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.9		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.9		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	97.7		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1218SBSD01	SDG No.:	P5299
Lab Sample ID:	VY1218SBSD01	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
VY020627.D	1		12/18/24 11:42	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.7		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.0		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	98.7		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.6		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.8		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.0		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.5		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.3		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.6		0.70	5.00	ug/Kg
100-42-5	Styrene	20.9		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.7		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.1		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.0		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.2		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.6		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.1		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		70 (50) - 130 (163)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	51.5		70 (58) - 130 (134)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		70 (29) - 130 (146)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	153000	7.707			
540-36-3	1,4-Difluorobenzene	244000	8.616			
3114-55-4	Chlorobenzene-d5	215000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1218SBSD01		SDG No.:	P5299
Lab Sample ID:	VY1218SBSD01		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
VY020627.D	1		12/18/24 11:42	VY121824

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P5299 SAS No.: P5299 SDG No.: P5299

Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51

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

LAB FILE ID:	RRF010 = VY020613.D		RRF020 = VY020614.D		RRF050 = VY020615.D		RRF100 = VY020616.D		RRF150 = VY020617.D		RRF005 = VY020619.D	
COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	RRF	% RSD				
Dichlorodifluoromethane	0.678	0.633	0.617	0.601	0.552	0.665	0.625	7.3				
Chloromethane	0.490	0.506	0.428	0.426	0.372	0.555	0.463	14.3				
Vinyl Chloride	0.443	0.469	0.371	0.440	0.374	0.487	0.431	11.3				
Bromomethane	0.291	0.279	0.229	0.282	0.254	0.327	0.277	12.1				
Chloroethane	0.273	0.287	0.212	0.272	0.251	0.302	0.266	11.8				
Trichlorofluoromethane	0.981	0.954	0.791	0.878	0.810	0.993	0.901	9.7				
1,1,2-Trichlorotrifluoroethane	0.715	0.659	0.603	0.649	0.537	0.712	0.646	10.5				
1,1-Dichloroethene	0.701	0.637	0.589	0.638	0.528	0.667	0.627	9.7				
Acetone	0.141	0.107	0.098	0.110		0.168	0.125	23.2				
Carbon Disulfide	2.315	2.083	1.939	2.092	1.669	2.142	2.040	10.7				
Methyl tert-butyl Ether	1.799	1.584	1.663	1.652	1.466	1.542	1.618	7.1				
Methyl Acetate	0.474	0.351	0.350	0.391	0.292	0.378	0.373	16.1				
Methylene Chloride	0.758	0.683	0.617	0.665	0.596	0.766	0.681	10.3				
trans-1,2-Dichloroethene	0.771	0.703	0.710	0.692	0.636	0.707	0.703	6.2				
1,1-Dichloroethane	1.401	1.307	1.323	1.300	1.173	1.333	1.306	5.7				
Cyclohexane	1.388	1.247	1.198	1.160	1.056	1.443	1.249	11.6				
2-Butanone	0.245	0.191	0.197	0.195	0.166	0.228	0.204	13.9				
Carbon Tetrachloride	0.768	0.715	0.701	0.697	0.656	0.730	0.711	5.2				
cis-1,2-Dichloroethene	0.875	0.815	0.817	0.797	0.724	0.827	0.809	6.1				
Bromochloromethane	0.436	0.353	0.495	0.501	0.432	0.427	0.441	12.3				
Chloroform	1.768	1.465	1.378	1.302	1.186	2.069	1.528	21.6				
1,1,1-Trichloroethane	1.298	1.215	1.198	1.183	1.086	1.219	1.200	5.7				
Methylcyclohexane	0.883	0.848	0.832	0.812	0.766	0.883	0.837	5.3				
Benzene	2.055	1.900	1.859	1.847	1.713	1.927	1.883	5.9				
1,2-Dichloroethane	0.546	0.499	0.500	0.498	0.452	0.502	0.500	6				
Trichloroethene	0.501	0.462	0.458	0.453	0.422	0.481	0.463	5.8				
1,2-Dichloropropane	0.473	0.450	0.434	0.440	0.401	0.442	0.440	5.3				
Bromodichloromethane	0.672	0.632	0.632	0.627	0.581	0.626	0.628	4.6				
4-Methyl-2-Pentanone	0.364	0.290	0.299	0.301	0.261	0.297	0.302	11.1				
Toluene	1.247	1.185	1.167	1.165	1.082	1.176	1.170	4.5				

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>PORT06</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>P5299</u>
Instrument ID:	<u>MSVOA_Y</u>	SAS No.:	<u>P5299</u>
Heated Purge: (Y/N)	<u>Y</u>	SDG No.:	<u>P5299</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25 (mm)</u>

LAB FILE ID:	RRF010 = VY020613.D	RRF020 = VY020614.D	RRF050 = VY020615.D					
	RRF100 = VY020616.D	RRF150 = VY020617.D	RRF005 = VY020619.D					
COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	RRF	% RSD
t-1,3-Dichloropropene	0.638	0.572	0.602	0.611	0.556	0.534	0.586	6.5
cis-1,3-Dichloropropene	0.742	0.694	0.706	0.714	0.646	0.661	0.694	5.1
1,1,2-Trichloroethane	0.344	0.306	0.303	0.309	0.276	0.308	0.308	7.1
2-Hexanone	0.225	0.183	0.199	0.202	0.175	0.180	0.194	9.5
Dibromochloromethane	0.447	0.402	0.420	0.421	0.381	0.396	0.411	5.7
1,2-Dibromoethane	0.319	0.281	0.288	0.290	0.261	0.277	0.286	6.7
Tetrachloroethene	0.505	0.464	0.452	0.446	0.422	0.533	0.470	8.7
Chlorobenzene	1.501	1.397	1.374	1.381	1.293	1.441	1.398	5
Ethyl Benzene	2.747	2.583	2.556	2.543	2.414	2.633	2.579	4.2
m/p-Xylenes	1.031	0.951	0.953	0.942	0.892	0.984	0.959	4.8
o-Xylene	0.956	0.892	0.898	0.887	0.842	0.894	0.895	4.1
Styrene	1.586	1.496	1.502	1.501	1.406	1.478	1.495	3.8
Bromoform	0.302	0.256	0.270	0.272	0.250	0.262	0.269	6.9
Isopropylbenzene	4.636	4.451	4.356	4.284	4.051	4.401	4.363	4.4
1,1,2,2-Tetrachloroethane	0.804	0.702	0.710	0.710	0.635	0.689	0.708	7.7
1,3-Dichlorobenzene	1.982	1.912	1.864	1.832	1.702	1.966	1.876	5.5
1,4-Dichlorobenzene	1.980	1.852	1.832	1.797	1.680	2.008	1.858	6.5
1,2-Dichlorobenzene	1.735	1.614	1.606	1.602	1.501	1.694	1.626	5
1,2-Dibromo-3-Chloropropane	0.133	0.107	0.113	0.114	0.107	0.116	0.115	8.4
1,2,4-Trichlorobenzene	0.975	0.927	1.014	1.030	0.990	0.964	0.983	3.8
1,2,3-Trichlorobenzene	0.798	0.791	0.864	0.874	0.846	0.813	0.831	4.2
1,2-Dichloroethane-d4	0.619	0.487	0.569	0.507	0.467	0.636	0.548	13
Dibromofluoromethane	0.385	0.328	0.360	0.325	0.313	0.404	0.352	10.4
Toluene-d8	1.314	1.127	1.271	1.143	1.100	1.445	1.233	10.9
4-Bromofluorobenzene	0.538	0.448	0.480	0.433	0.412	0.585	0.482	13.9

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P5299 SAS No.: P5299 SDG No.: P5299

Instrument ID: MSVOA_Y Calibration Date/Time: 12/18/2024 10:06

Lab File ID: VY020624.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.625	0.667		6.72	20
Chloromethane	0.463	0.541	0.1	16.85	20
Vinyl Chloride	0.431	0.514		19.26	20
Bromomethane	0.277	0.317		14.44	20
Chloroethane	0.266	0.326		22.56	20
Trichlorofluoromethane	0.901	0.981		8.88	20
1,1,2-Trichlorotrifluoroethane	0.646	0.725		12.23	20
1,1-Dichloroethene	0.627	0.702		11.96	20
Acetone	0.125	0.114		-8.8	20
Carbon Disulfide	2.040	2.319		13.68	20
Methyl tert-butyl Ether	1.618	1.763		8.96	20
Methyl Acetate	0.373	0.405		8.58	20
Methylene Chloride	0.681	0.726		6.61	20
trans-1,2-Dichloroethene	0.703	0.781		11.1	20
1,1-Dichloroethane	1.306	1.451	0.1	11.1	20
Cyclohexane	1.249	1.315		5.28	20
2-Butanone	0.204	0.201		-1.47	20
Carbon Tetrachloride	0.711	0.776		9.14	20
cis-1,2-Dichloroethene	0.809	0.885		9.39	20
Bromochloromethane	0.441	0.526		19.27	20
Chloroform	1.528	1.488		-2.62	20
1,1,1-Trichloroethane	1.200	1.333		11.08	20
Methylcyclohexane	0.837	0.899		7.41	20
Benzene	1.883	2.047		8.71	20
1,2-Dichloroethane	0.500	0.534		6.8	20
Trichloroethene	0.463	0.501		8.21	20
1,2-Dichloropropane	0.440	0.476		8.18	20
Bromodichloromethane	0.628	0.679		8.12	20
4-Methyl-2-Pentanone	0.302	0.306		1.33	20
Toluene	1.170	1.284		9.74	20
t-1,3-Dichloropropene	0.586	0.646		10.24	20
cis-1,3-Dichloropropene	0.694	0.767		10.52	20
1,1,2-Trichloroethane	0.308	0.324		5.2	20
2-Hexanone	0.194	0.204		5.16	20
Dibromochloromethane	0.411	0.445		8.27	20
1,2-Dibromoethane	0.286	0.306		6.99	20
Tetrachloroethene	0.470	0.514		9.36	20
Chlorobenzene	1.398	1.574	0.3	12.59	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P5299 SAS No.: P5299 SDG No.: P5299

Instrument ID: MSVOA_Y Calibration Date/Time: 12/18/2024 10:06

Lab File ID: VY020624.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.579	2.891		12.1	20
m/p-Xylenes	0.959	1.067		11.26	20
o-Xylene	0.895	1.001		11.84	20
Styrene	1.495	1.676		12.11	20
Bromoform	0.269	0.293	0.1	8.92	20
Isopropylbenzene	4.363	4.981		14.16	20
1,1,2,2-Tetrachloroethane	0.708	0.769	0.3	8.62	20
1,3-Dichlorobenzene	1.876	2.057		9.65	20
1,4-Dichlorobenzene	1.858	2.024		8.93	20
1,2-Dichlorobenzene	1.626	1.783		9.66	20
1,2-Dibromo-3-Chloropropane	0.115	0.119		3.48	20
1,2,4-Trichlorobenzene	0.983	1.120		13.94	20
1,2,3-Trichlorobenzene	0.831	0.948		14.08	20
1,2-Dichloroethane-d4	0.548	0.514		-6.2	20
Dibromofluoromethane	0.352	0.333		-5.4	20
Toluene-d8	1.233	1.198		-2.84	20
4-Bromofluorobenzene	0.482	0.430		-10.79	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\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Time: Dec 19 02:51:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	233930	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	408249	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	351864	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	141411	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	125606	49.026	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.060%
35) Dibromofluoromethane	7.634	113	131817	45.814	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	91.620%
50) Toluene-d8	10.103	98	486937	48.352	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.700%
62) 4-Bromofluorobenzene	12.401	95	152376	38.680	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	77.360%

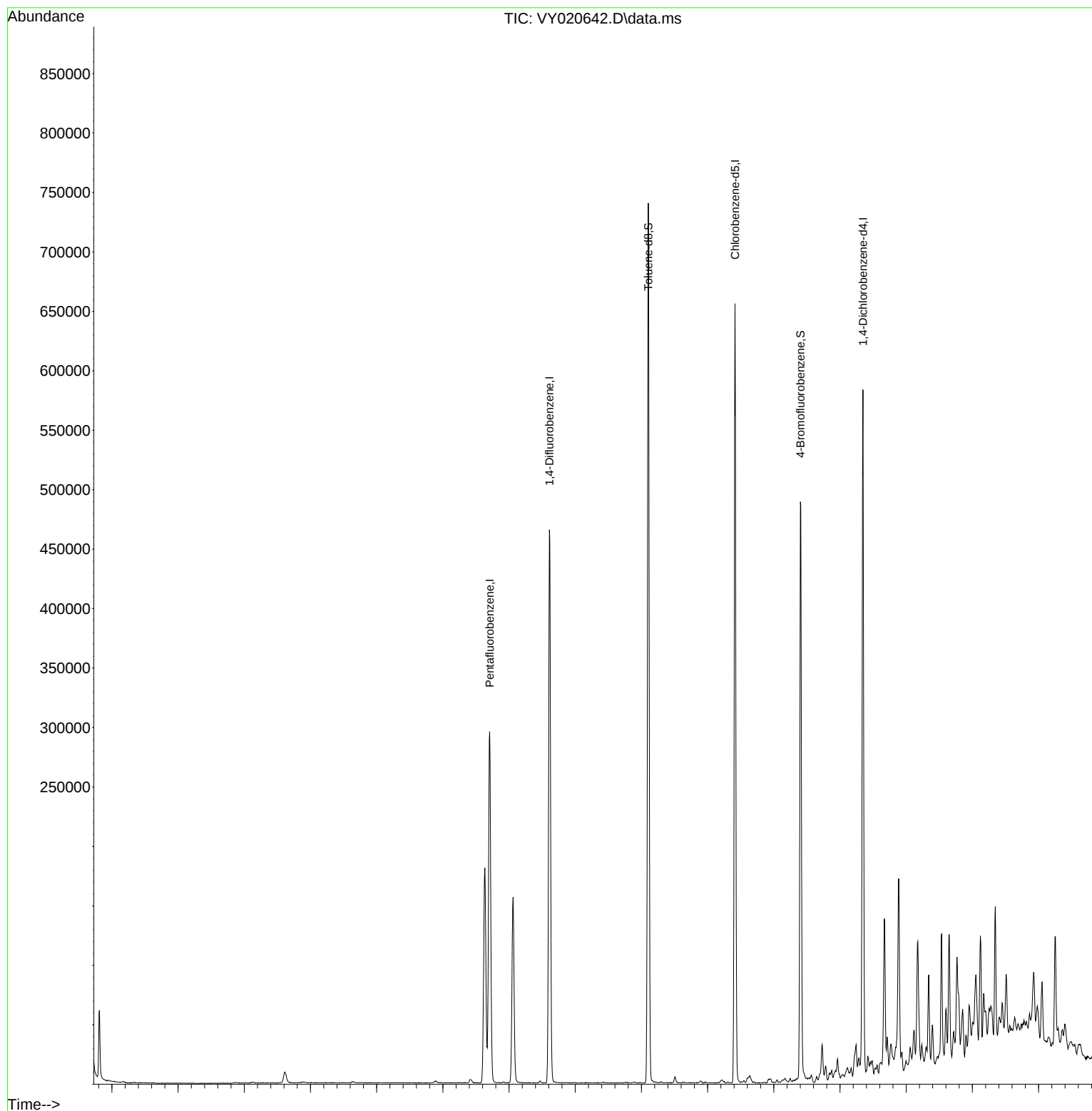
Target Compounds	Qvalue

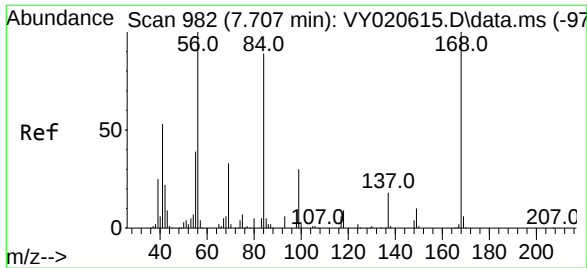
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Time: Dec 19 02:51:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

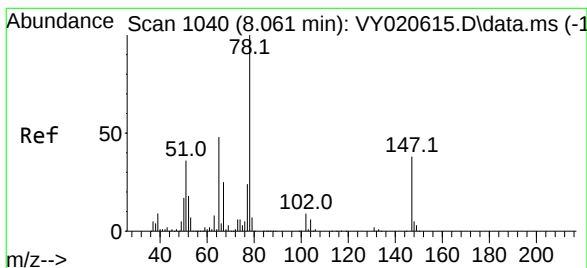
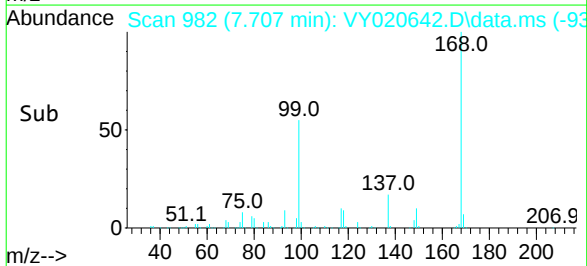
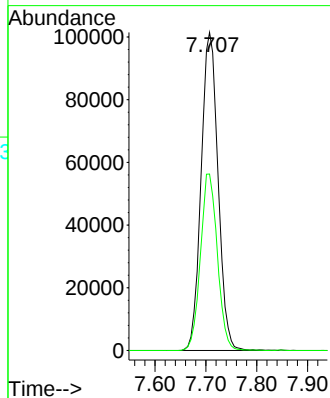
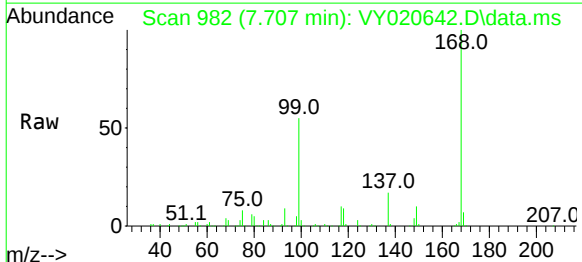




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

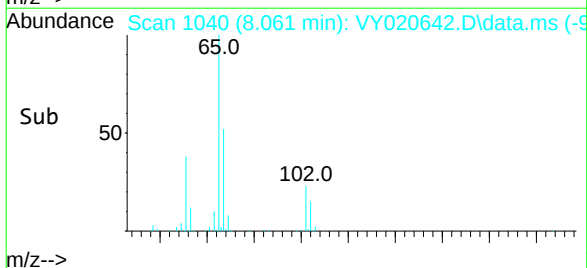
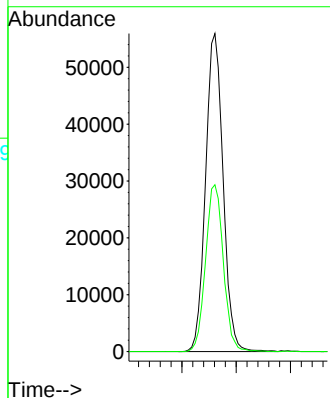
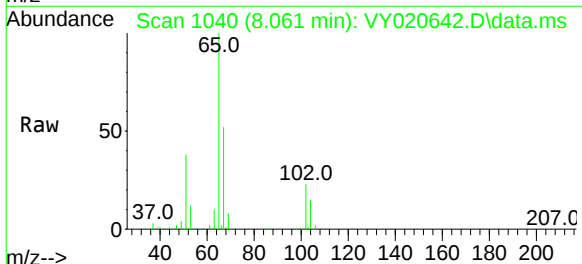
Instrument :
MSVOA_Y
ClientSampleId :
SB-01

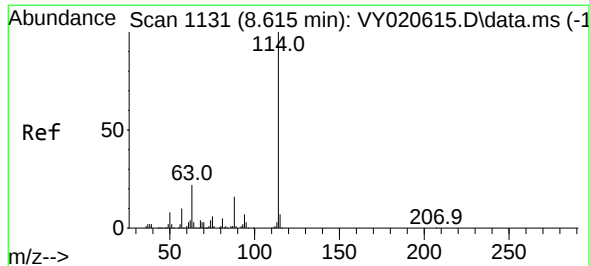
Tgt Ion: 168 Resp: 233930
Ion Ratio Lower Upper
168 100
99 55.5 47.0 70.6



#33
1,2-Dichloroethane-d4
Concen: 49.026 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

Tgt Ion: 65 Resp: 125606
Ion Ratio Lower Upper
65 100
67 53.3 0.0 108.0

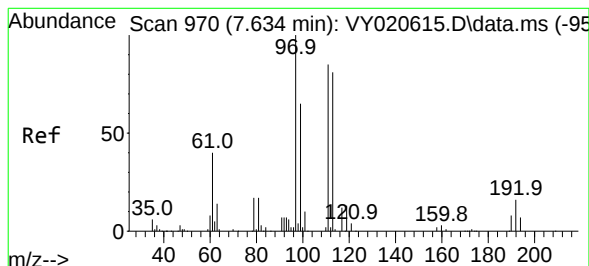
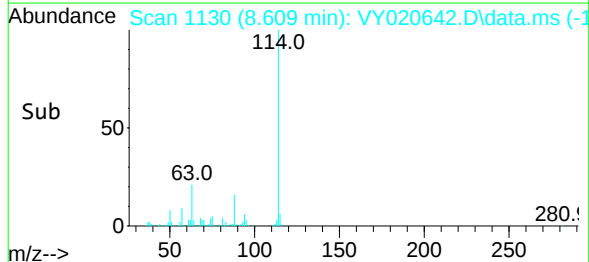
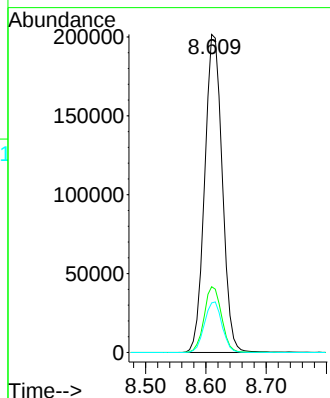
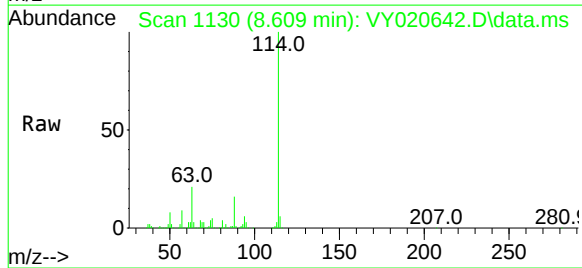




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

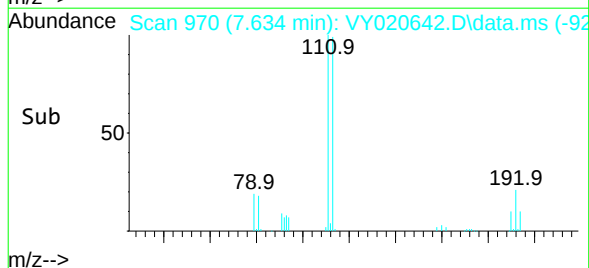
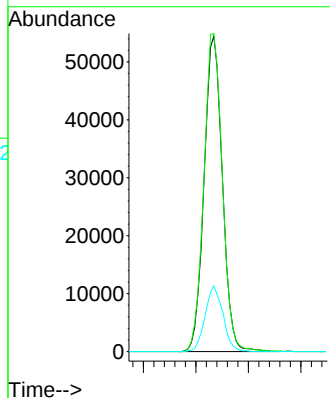
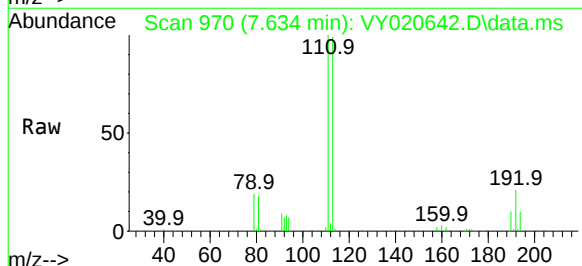
Instrument :
MSVOA_Y
ClientSampleId :
SB-01

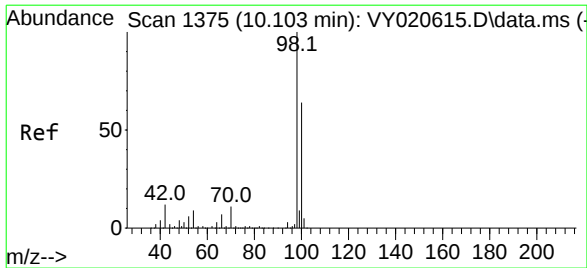
Tgt Ion:	114	Resp:	408249
Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	15.6	0.0	32.8



#35
Dibromofluoromethane
Concen: 45.814 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

Tgt Ion:	113	Resp:	131817
Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.9	124.3
192	20.3	15.7	23.5





#50

Toluene-d8

Concen: 48.352 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY020642.D

Acq: 18 Dec 2024 17:38

Instrument :

MSVOA_Y

ClientSampleId :

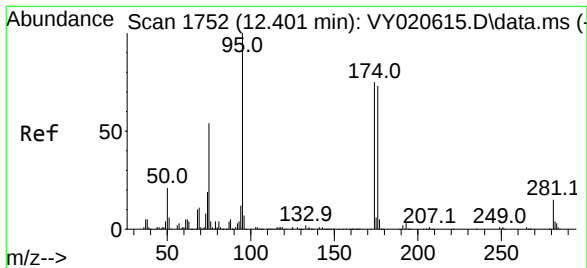
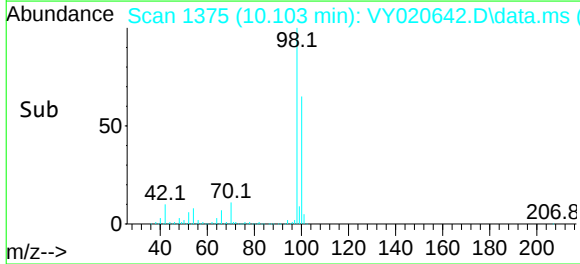
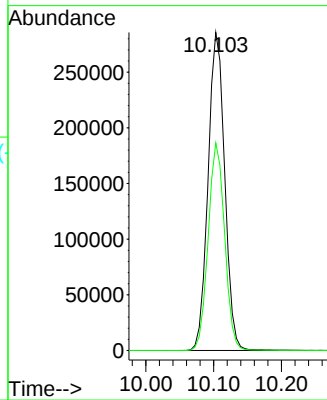
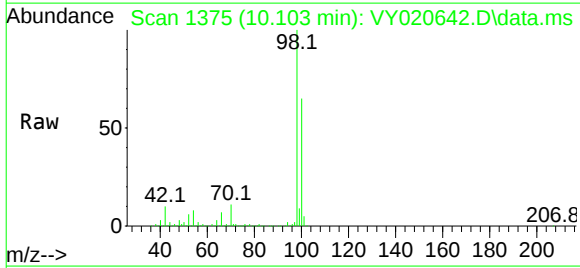
SB-01

Tgt Ion: 98 Resp: 486937

Ion Ratio Lower Upper

98 100

100 64.6 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 38.680 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY020642.D

Acq: 18 Dec 2024 17:38

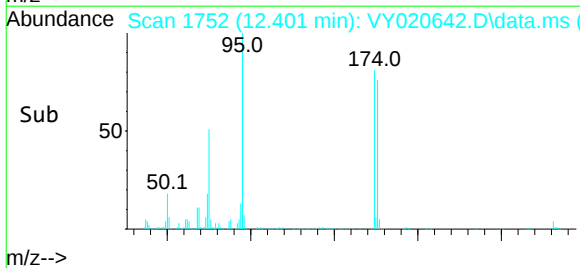
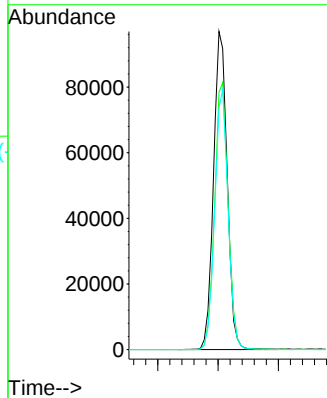
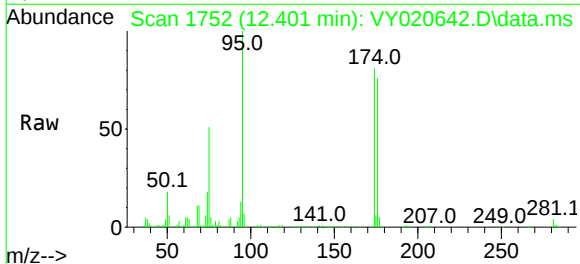
Tgt Ion: 95 Resp: 152376

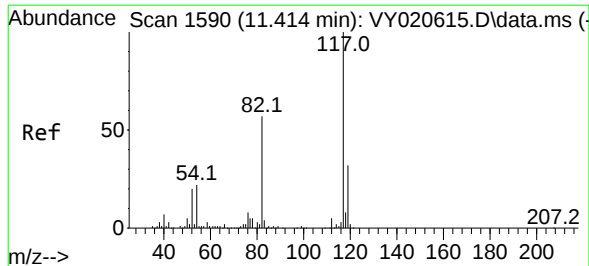
Ion Ratio Lower Upper

95 100

174 83.5 0.0 161.8

176 79.5 0.0 156.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY020642.D

Acq: 18 Dec 2024 17:38

Instrument :

MSVOA_Y

ClientSampleId :

SB-01

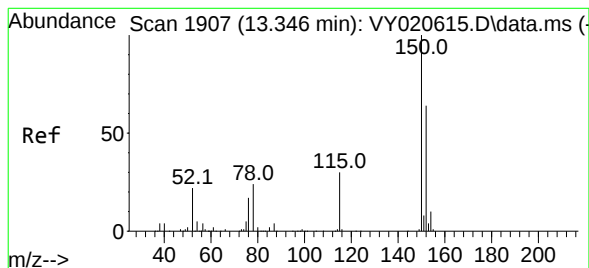
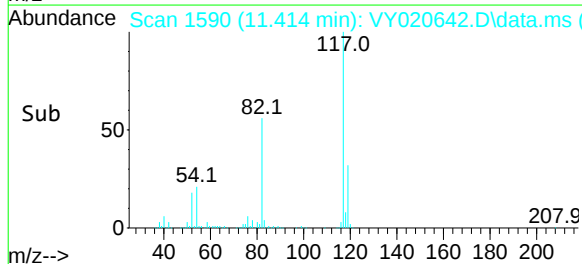
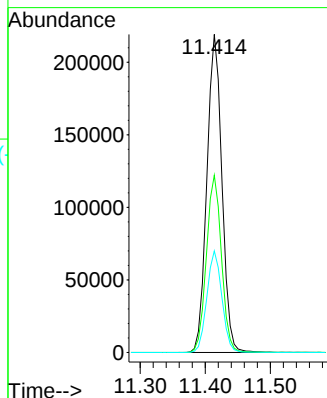
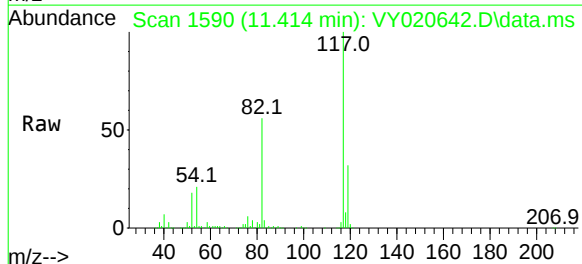
Tgt Ion:117 Resp: 351864

Ion Ratio Lower Upper

117 100

82 55.7 45.8 68.6

119 31.9 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY020642.D

Acq: 18 Dec 2024 17:38

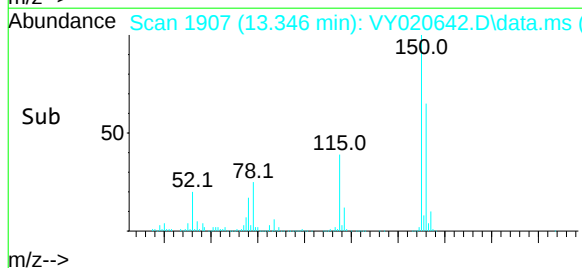
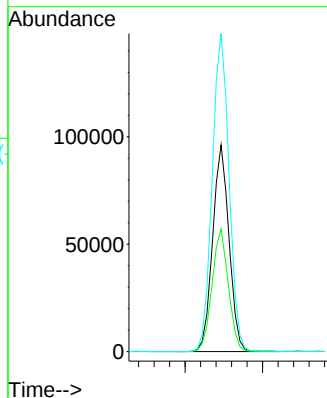
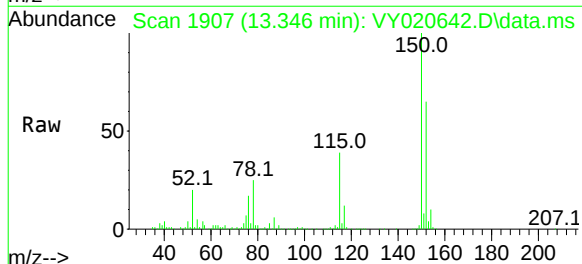
Tgt Ion:152 Resp: 141411

Ion Ratio Lower Upper

152 100

115 59.2 30.2 90.6

150 158.1 0.0 355.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M

Title : SW846 8260

Signal : TIC: VY020642.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.812	10	15	32	rVB	58817	93147	7.35%	0.946%
2	4.610	464	474	488	rBV2	9043	28066	2.22%	0.285%
3	7.634	960	970	976	rBV	180850	437327	34.53%	4.441%
4	7.707	976	982	1000	rVB	295401	678439	53.56%	6.890%
5	8.061	1029	1040	1051	rBV	156142	347475	27.43%	3.529%
6	8.609	1121	1130	1141	rBV	465272	941168	74.30%	9.558%
7	10.103	1366	1375	1384	rBV	740114	1266684	100.00%	12.864%
8	11.414	1583	1590	1603	rBV	655278	1061463	83.80%	10.780%
9	11.639	1623	1627	1634	rVB7	5823	12941	1.02%	0.131%
10	12.401	1746	1752	1765	rVB2	484840	807429	63.74%	8.200%
11	12.731	1795	1806	1811	rBV4	29617	62493	4.93%	0.635%
12	12.786	1811	1815	1820	rVB2	11678	18722	1.48%	0.190%
13	12.962	1840	1844	1851	rVB4	16091	28534	2.25%	0.290%
14	13.115	1861	1869	1873	rBV7	7575	19879	1.57%	0.202%
15	13.243	1881	1890	1893	rBV5	26112	63933	5.05%	0.649%
16	13.285	1893	1897	1899	rVV5	9544	14458	1.14%	0.147%
17	13.346	1900	1907	1914	rVB	573699	877309	69.26%	8.910%
18	13.420	1916	1919	1923	rBV3	12034	18603	1.47%	0.189%
19	13.615	1946	1951	1954	rBV5	9029	21739	1.72%	0.221%
20	13.670	1954	1960	1965	rVV2	129148	233669	18.45%	2.373%
21	13.712	1965	1967	1971	rVV2	29178	41540	3.28%	0.422%
22	13.773	1971	1977	1984	rVV5	22727	68461	5.40%	0.695%
23	13.889	1984	1996	2001	rVV2	160754	336223	26.54%	3.415%
24	13.932	2001	2003	2008	rVB3	15454	21012	1.66%	0.213%
25	13.999	2009	2014	2019	rBV7	7603	17031	1.34%	0.173%
26	14.060	2020	2024	2028	rVV7	16875	33036	2.61%	0.336%
27	14.115	2029	2033	2037	rVV4	31078	60797	4.80%	0.617%
28	14.176	2037	2043	2050	rVV7	104994	225963	17.84%	2.295%
29	14.237	2050	2053	2059	rVV3	18011	33243	2.62%	0.338%
30	14.304	2059	2064	2066	rVV4	15386	29494	2.33%	0.300%
31	14.340	2066	2070	2075	rVV2	75580	116039	9.16%	1.178%
32	14.395	2075	2079	2086	rVB3	32837	55213	4.36%	0.561%
33	14.535	2097	2102	2108	rVB2	102065	148182	11.70%	1.505%
34	14.602	2108	2113	2116	rBV2	38861	62737	4.95%	0.637%
35	14.651	2116	2121	2127	rVB3	102763	170460	13.46%	1.731%
36	14.718	2127	2132	2135	rBV7	21245	39588	3.13%	0.402%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

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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\82Y121724S.M
Title : SW846 8260

37	14.767	2135	2140	2148	rVB2	73798	167160	13.20%	1.698%
38	14.852	2148	2154	2159	rVB4	40380	84838	6.70%	0.862%
39	14.901	2159	2162	2165	rBV3	18478	28526	2.25%	0.290%
40	14.950	2166	2170	2176	rBV4	33812	69682	5.50%	0.708%
41	15.005	2176	2179	2181	rBV3	11150	16648	1.31%	0.169%
42	15.053	2182	2187	2193	rVB6	55124	121769	9.61%	1.237%
43	15.121	2193	2198	2202	rBV2	87691	143360	11.32%	1.456%
44	15.169	2202	2206	2209	rBV3	36556	57417	4.53%	0.583%
45	15.255	2216	2220	2222	rBV4	20025	33923	2.68%	0.345%
46	15.346	2231	2235	2240	rVB	108196	150086	11.85%	1.524%
47	15.407	2241	2245	2248	rVV5	14255	27656	2.18%	0.281%
48	15.450	2249	2252	2257	rVV4	25556	43853	3.46%	0.445%
49	15.511	2257	2262	2268	rVB3	49044	85492	6.75%	0.868%
50	15.925	2325	2330	2335	rVB4	40743	76083	6.01%	0.773%
51	16.053	2346	2351	2358	rVB4	49908	88372	6.98%	0.897%
52	16.254	2378	2384	2388	rBV	90410	159213	12.57%	1.617%

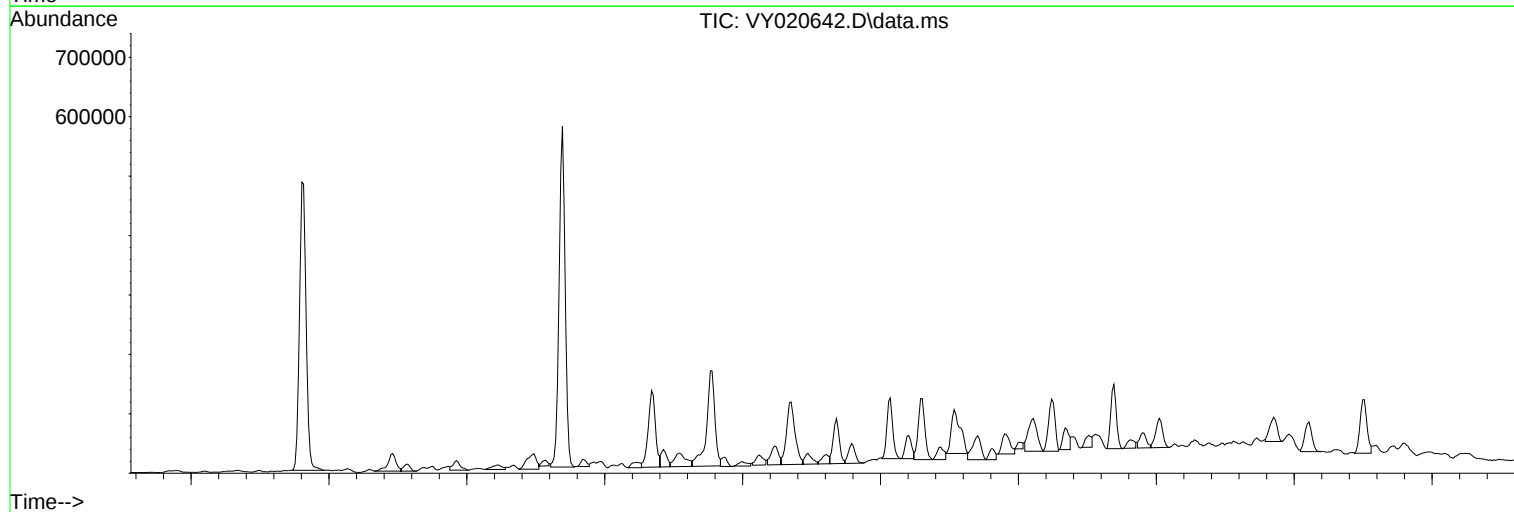
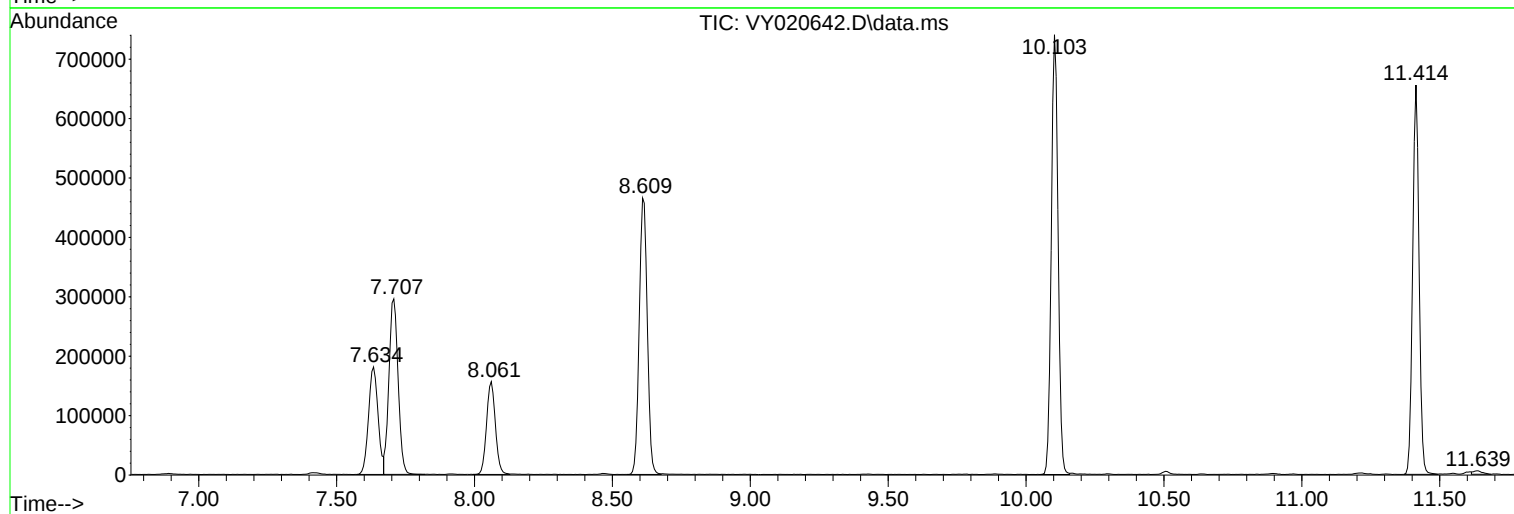
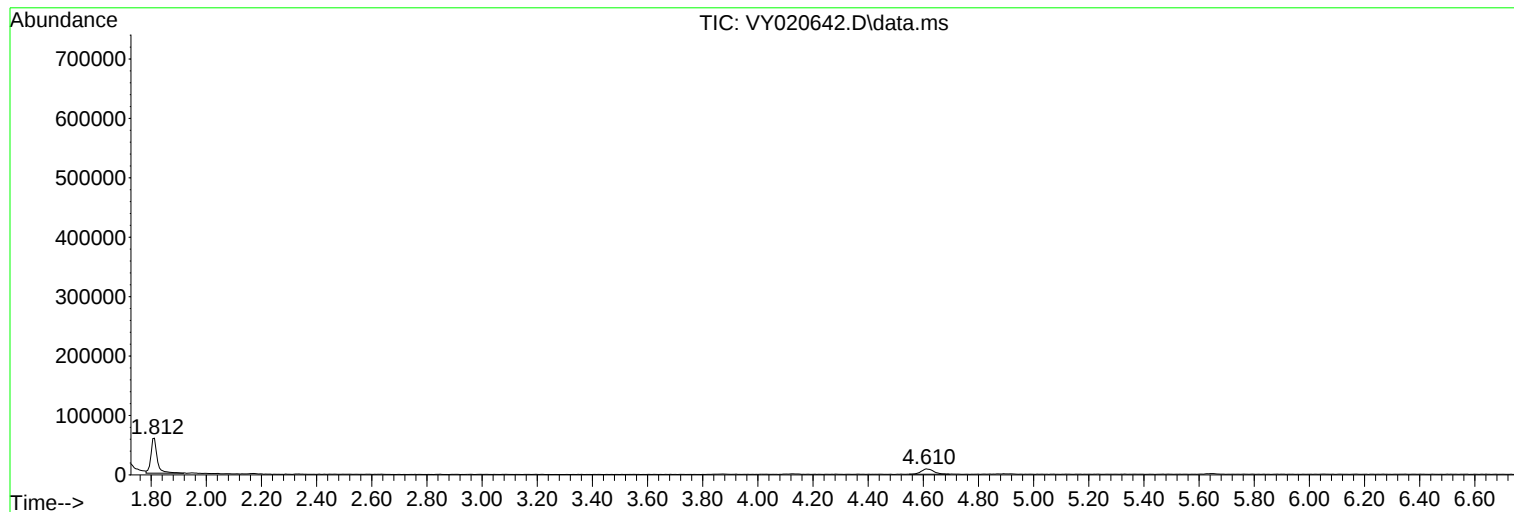
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Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

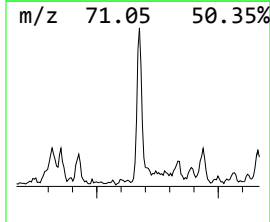
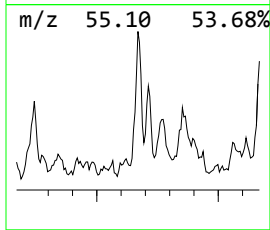
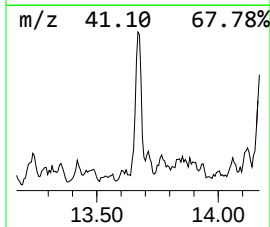
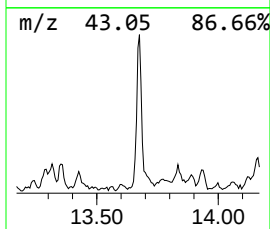
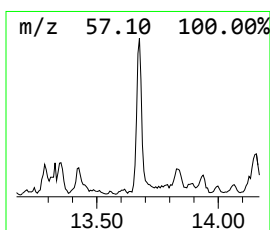
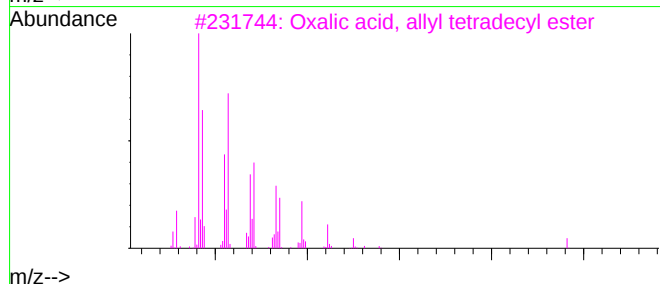
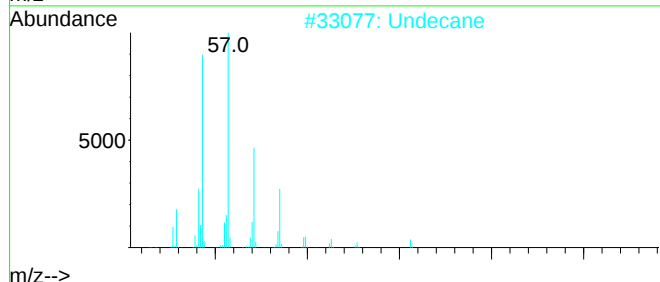
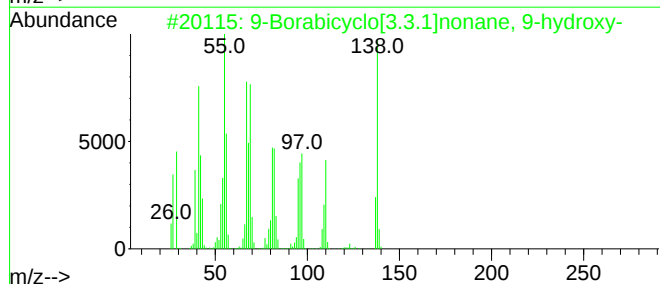
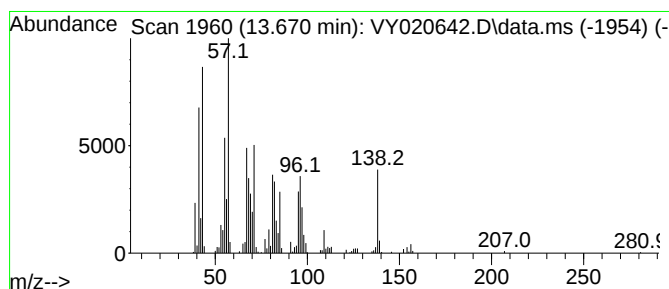
Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

Peak Number 1 unknown13.670 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.670	13.32 ug/l	233669	1,4-Dichlorobenzene-d4	13.346	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Borabicyclo[3.3.1]nonane, 9-hy...	138	C8H15BO	063366-65-4	41
2	Undecane	156	C11H24	001120-21-4	35
3	Oxalic acid, allyl tetradecyl ester	326	C19H34O4	1000309-24-2	30
4	Butanoic acid, 5-methyl-2-(1-met...	226	C14H26O2	092319-43-2	27
5	Carbonic acid, prop-1-en-2-yl tr...	284	C17H32O3	1000382-90-8	25



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

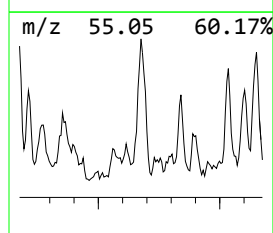
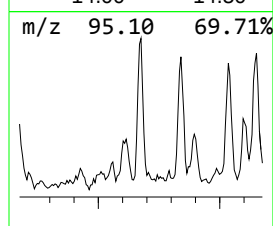
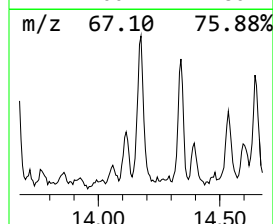
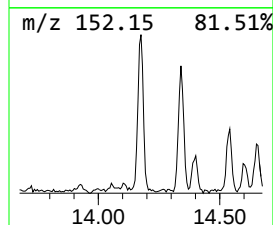
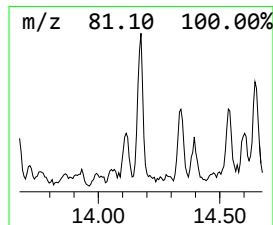
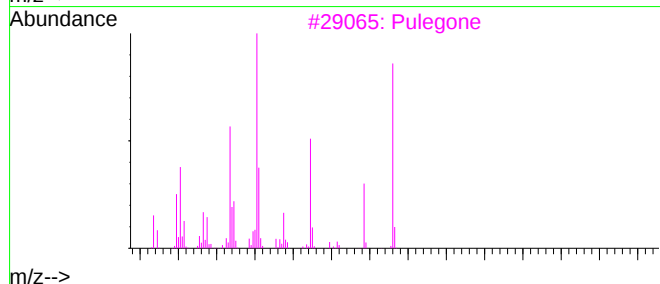
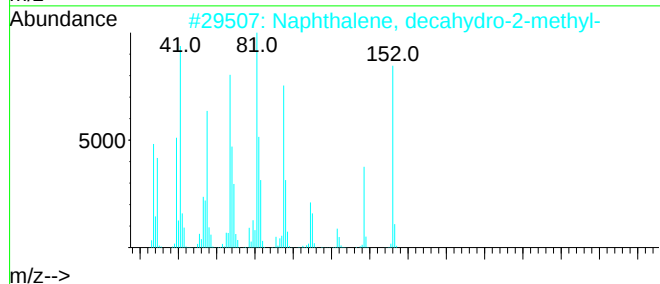
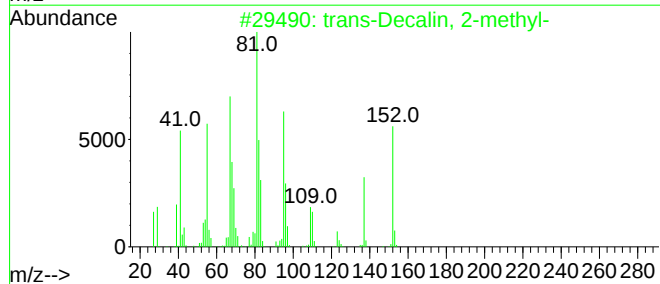
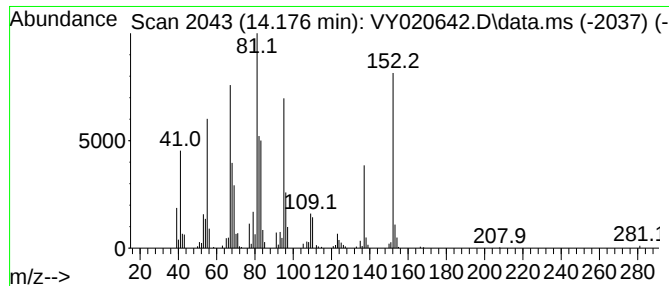
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Quant Title : SW846 8260

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

Peak Number 3 trans-Decalin, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.176	12.88 ug/l	225963	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	97
2	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	93
3	Pulegone	152	C10H16O	000089-82-7	68
4	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	68
5	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	64



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

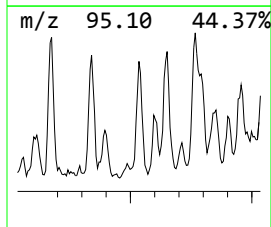
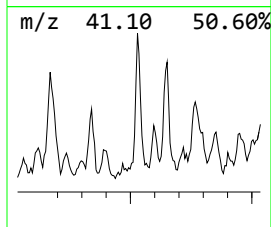
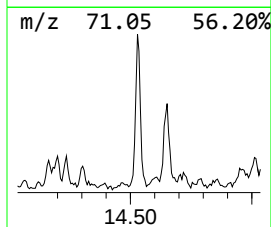
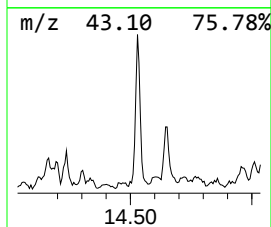
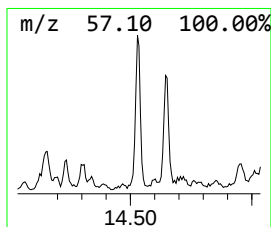
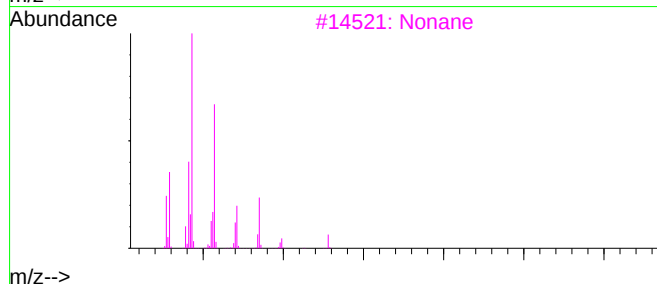
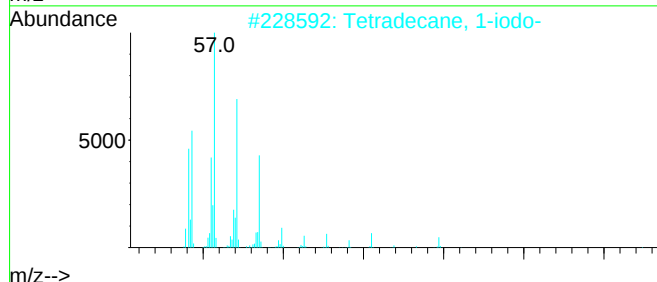
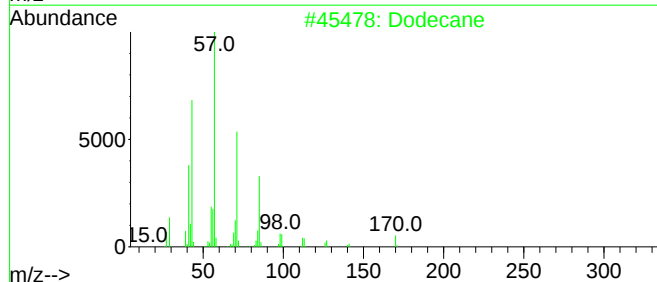
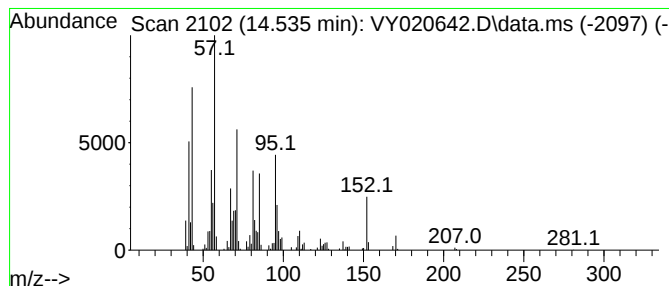
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Quant Title : SW846 8260

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

Peak Number 4 Dodecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.535	8.45 ug/l	148182	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	53
2	Tetradecane, 1-iodo-	324	C14H29I	019218-94-1	38
3	Nonane	128	C9H20	000111-84-2	38
4	Nonadecane	268	C19H40	000629-92-5	38
5	Tetradecane	198	C14H30	000629-59-4	35



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

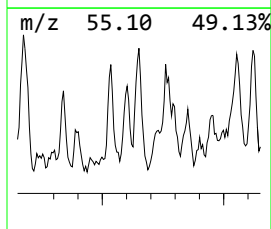
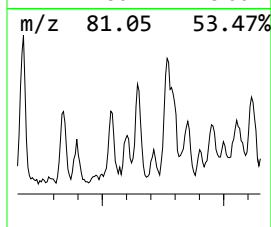
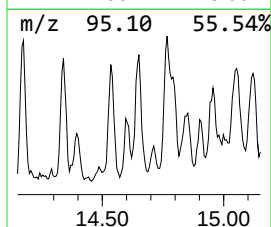
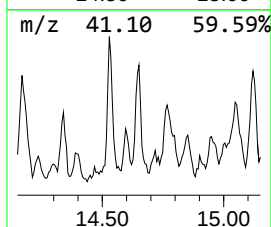
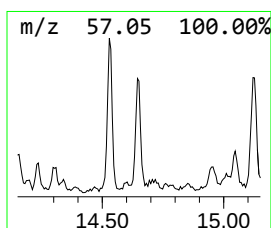
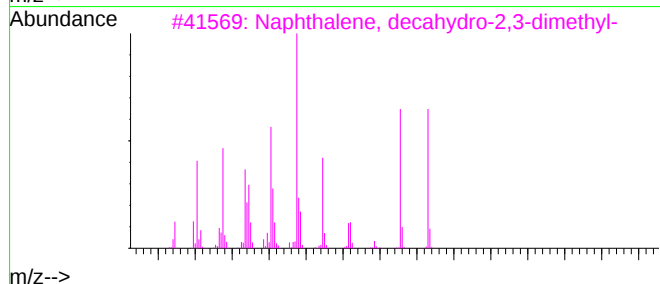
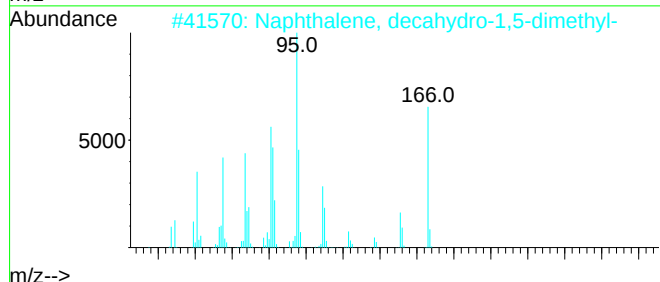
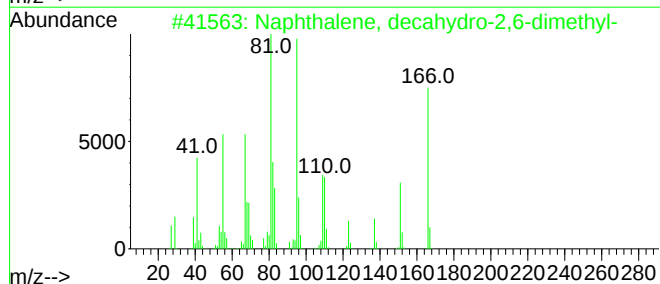
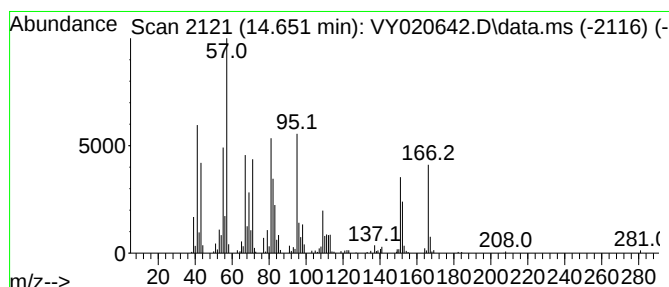
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Quant Title : SW846 8260

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

Peak Number 5 Naphthalene, decahydro-2,6-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.651	9.71 ug/l	170460	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2,6-dimet...	166	C12H22	001618-22-0	53
2	Naphthalene, decahydro-1,5-dimet...	166	C12H22	066552-62-3	49
3	Naphthalene, decahydro-2,3-dimet...	166	C12H22	001008-80-6	49
4	cis,trans-1,6-Dimethylspiro[4.5]...	166	C12H22	1000111-72-3	46
5	Camphor	152	C10H16O	000076-22-2	46



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

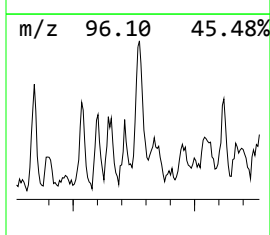
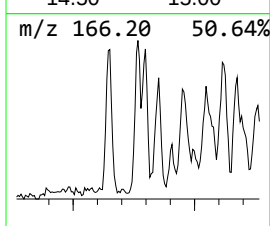
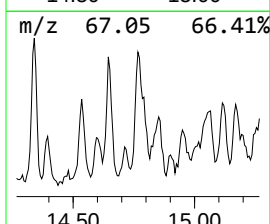
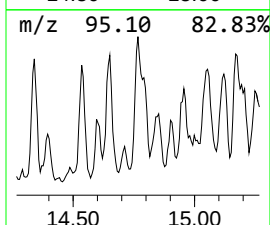
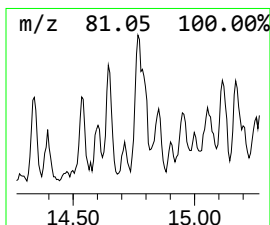
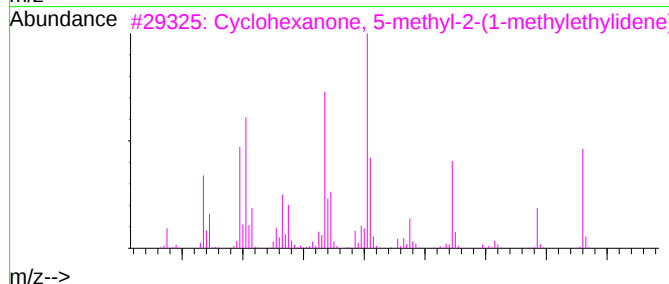
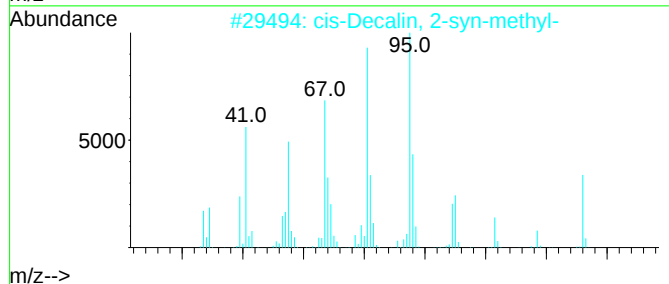
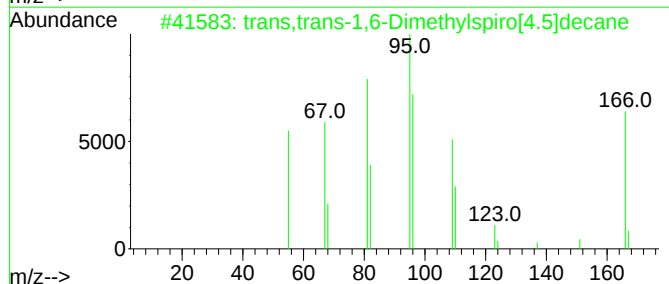
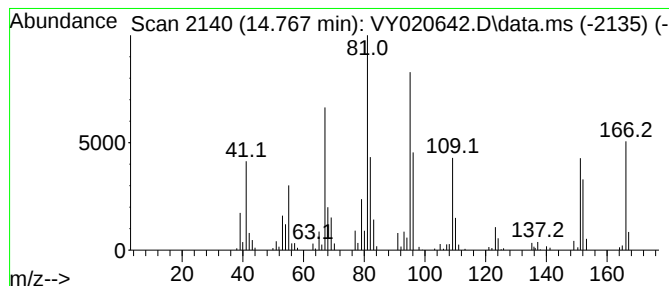
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Quant Title : SW846 8260

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

Peak Number 6 trans,trans-1,6-Dimethylspi... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.767	9.53 ug/l	167160	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans,trans-1,6-Dimethylspiro[4...	166	C12H22	1000111-72-1	76
2	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	58
3	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	55
4	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	52
5	Naphthalene, decahydro-1,6-dimet...	166	C12H22	001750-51-2	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

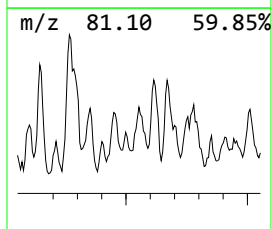
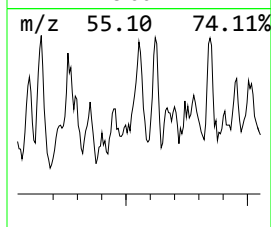
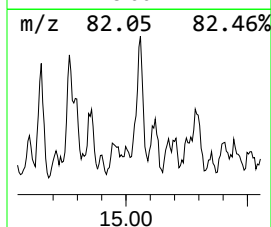
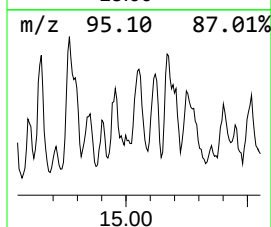
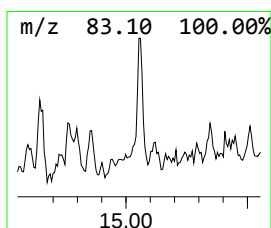
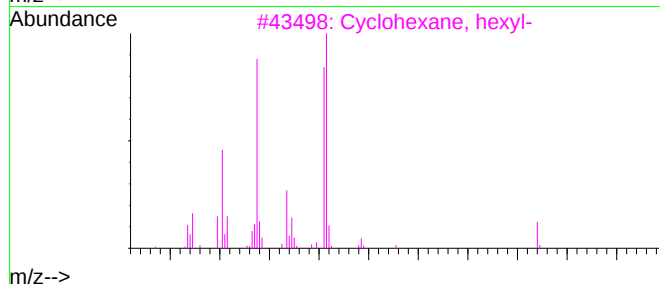
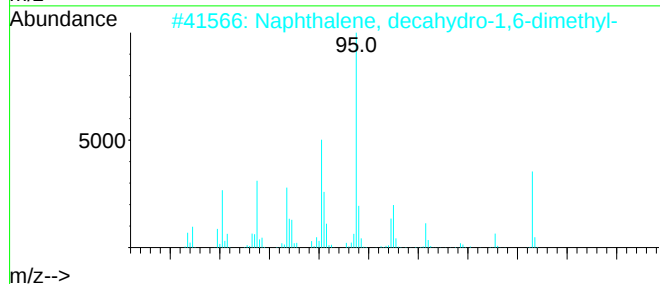
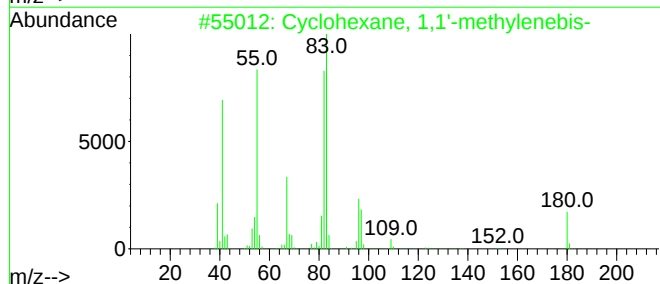
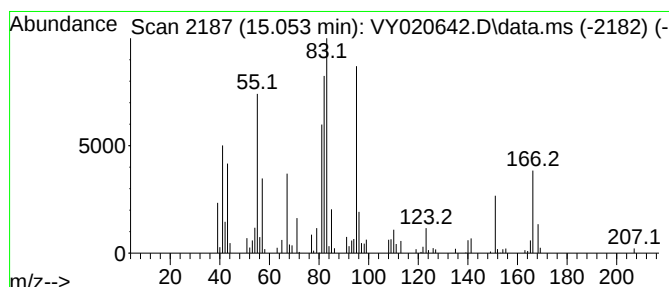
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Quant Title : SW846 8260

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

Peak Number 7 unknown15.054 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.054	6.94 ug/l	121769	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, 1,1'-methylenebis-	180	C13H24	003178-23-2	38
2			Naphthalene, decahydro-1,6-dimet...	166	C12H22	001750-51-2	38
3			Cyclohexane, hexyl-	168	C12H24	004292-75-5	38
4			Bicyclo[2.2.1]heptan-2-one, 1,3,...	166	C11H18O	005811-48-3	38
5			Cyclohexane, butyl-	140	C10H20	001678-93-9	27



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

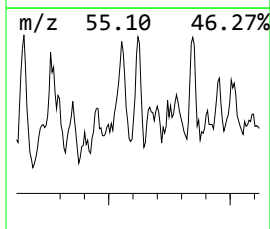
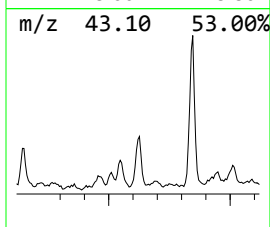
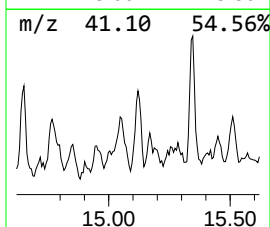
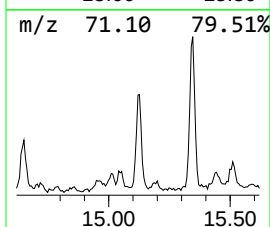
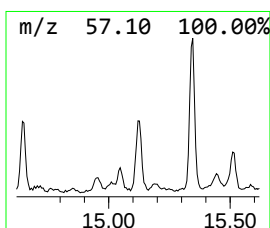
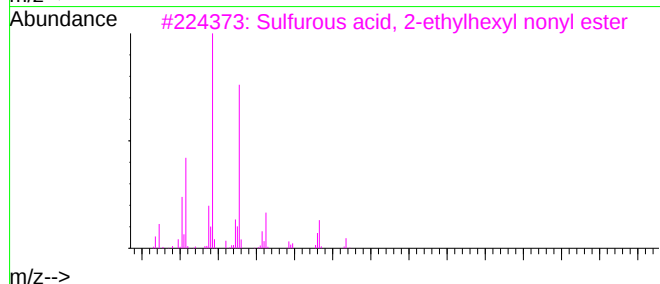
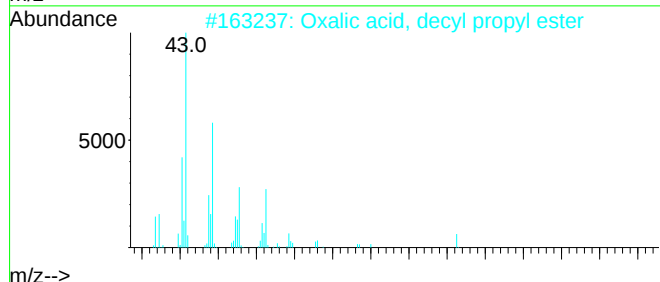
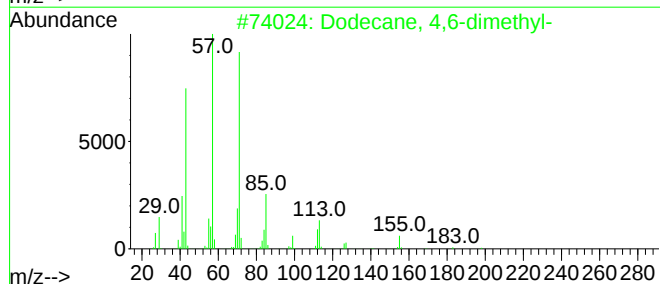
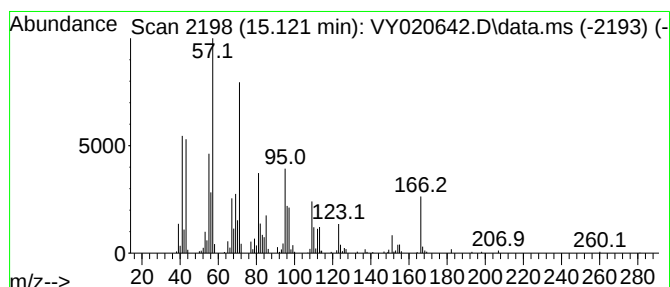
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Quant Title : SW846 8260

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

Peak Number 8 Dodecane, 4,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.121	8.17 ug/l	143360	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	86
2	Oxalic acid, decyl propyl ester	272	C15H28O4	1000309-26-3	35
3	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1010309-19-2	30
4	Decane, 4-methyl-	156	C11H24	002847-72-5	30
5	Cyclohexanone, 2,2-dimethyl-5-(3...	182	C11H18O2	141033-65-0	30



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

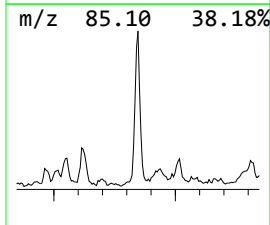
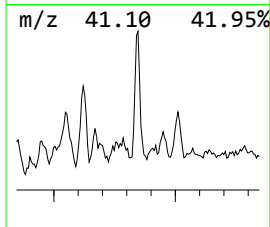
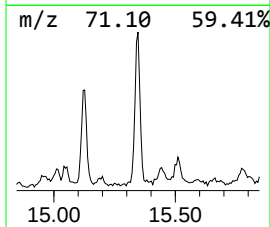
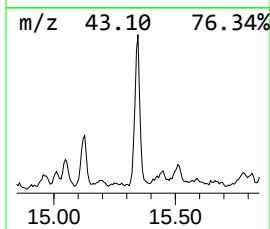
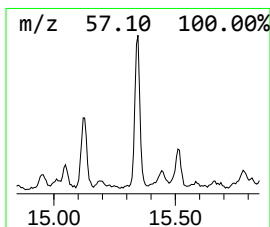
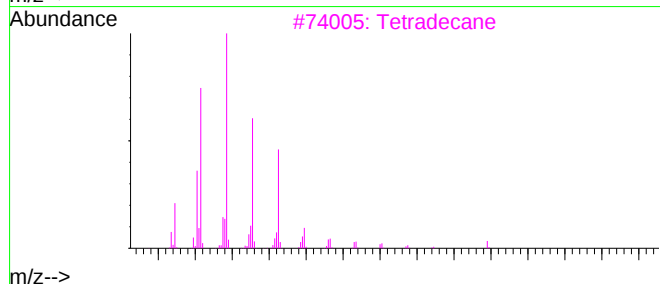
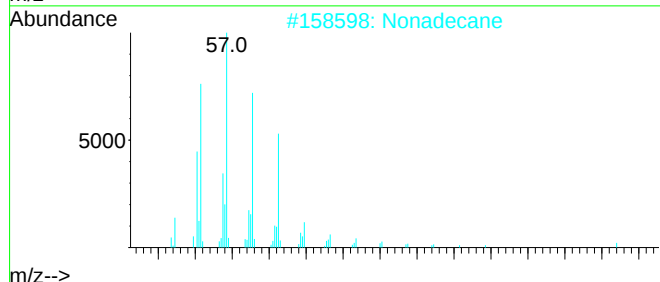
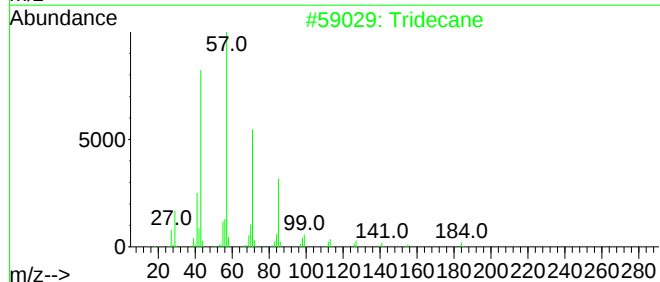
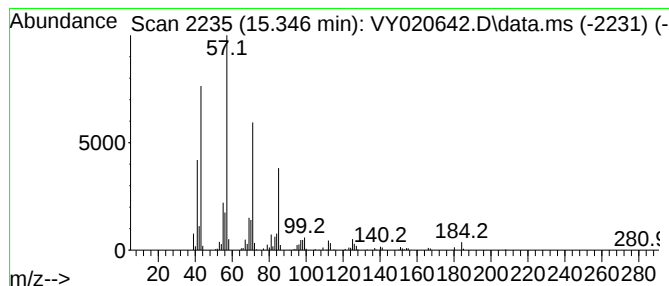
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Quant Title : SW846 8260

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

Peak Number 9 Tridecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	8.55 ug/l	150086	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	91
2	Nonadecane	268	C19H40	000629-92-5	87
3	Tetradecane	198	C14H30	000629-59-4	80
4	Dodecane	170	C12H26	000112-40-3	72
5	Eicosane, 10-methyl-	296	C21H44	054833-23-7	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

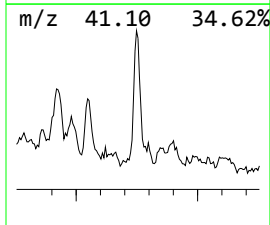
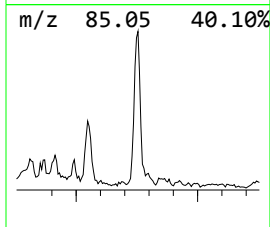
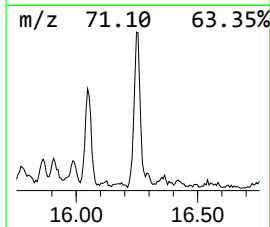
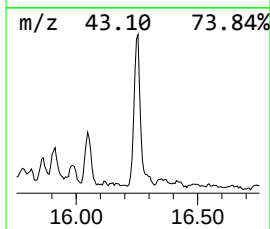
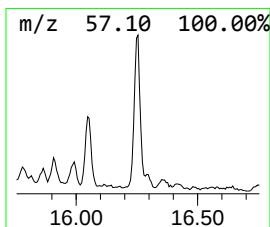
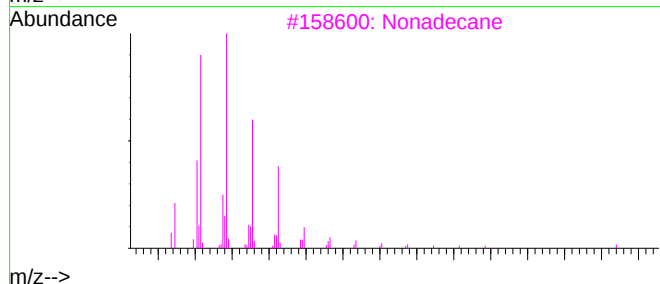
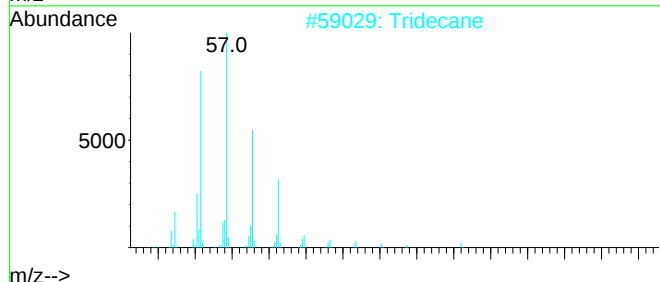
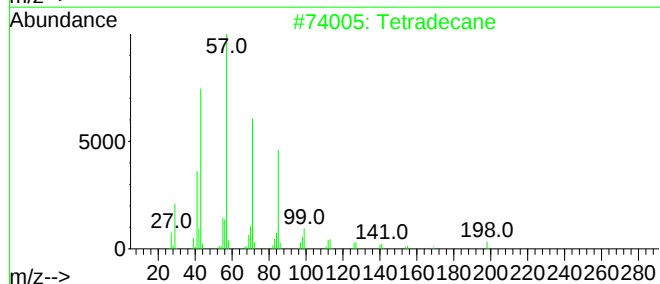
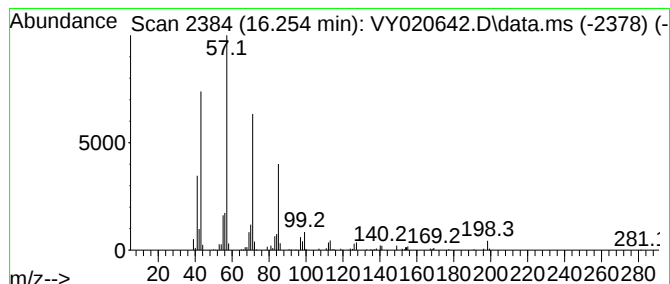
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Quant Title : SW846 8260

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

Peak Number 10 Tetradecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.255	9.07 ug/l	159213	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	96
2	Tridecane	184	C13H28	000629-50-5	90
3	Nonadecane	268	C19H40	000629-92-5	87
4	Heptadecane	240	C17H36	000629-78-7	80
5	Hexadecane	226	C16H34	000544-76-3	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown13.670	13.670	13.3	ug/l	233669	4	13.346	877309	50.0
trans-Decalin, ...	14.176	12.9	ug/l	225963	4	13.346	877309	50.0
Dodecane	14.535	8.4	ug/l	148182	4	13.346	877309	50.0
Naphthalene, de...	14.651	9.7	ug/l	170460	4	13.346	877309	50.0
trans,trans-1,6...	14.767	9.5	ug/l	167160	4	13.346	877309	50.0
unknown15.054	15.054	6.9	ug/l	121769	4	13.346	877309	50.0
Dodecane, 4,6-d...	15.121	8.2	ug/l	143360	4	13.346	877309	50.0
Tridecane	15.346	8.6	ug/l	150086	4	13.346	877309	50.0
Tetradecane	16.255	9.1	ug/l	159213	4	13.346	877309	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
 Data File : VY020639.D
 Acq On : 18 Dec 2024 16:27
 Operator : SY/MD
 Sample : P5299-02
 Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-02

Quant Time: Dec 19 02:50:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 18 05:27:13 2024
 Response via : Initial Calibration

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

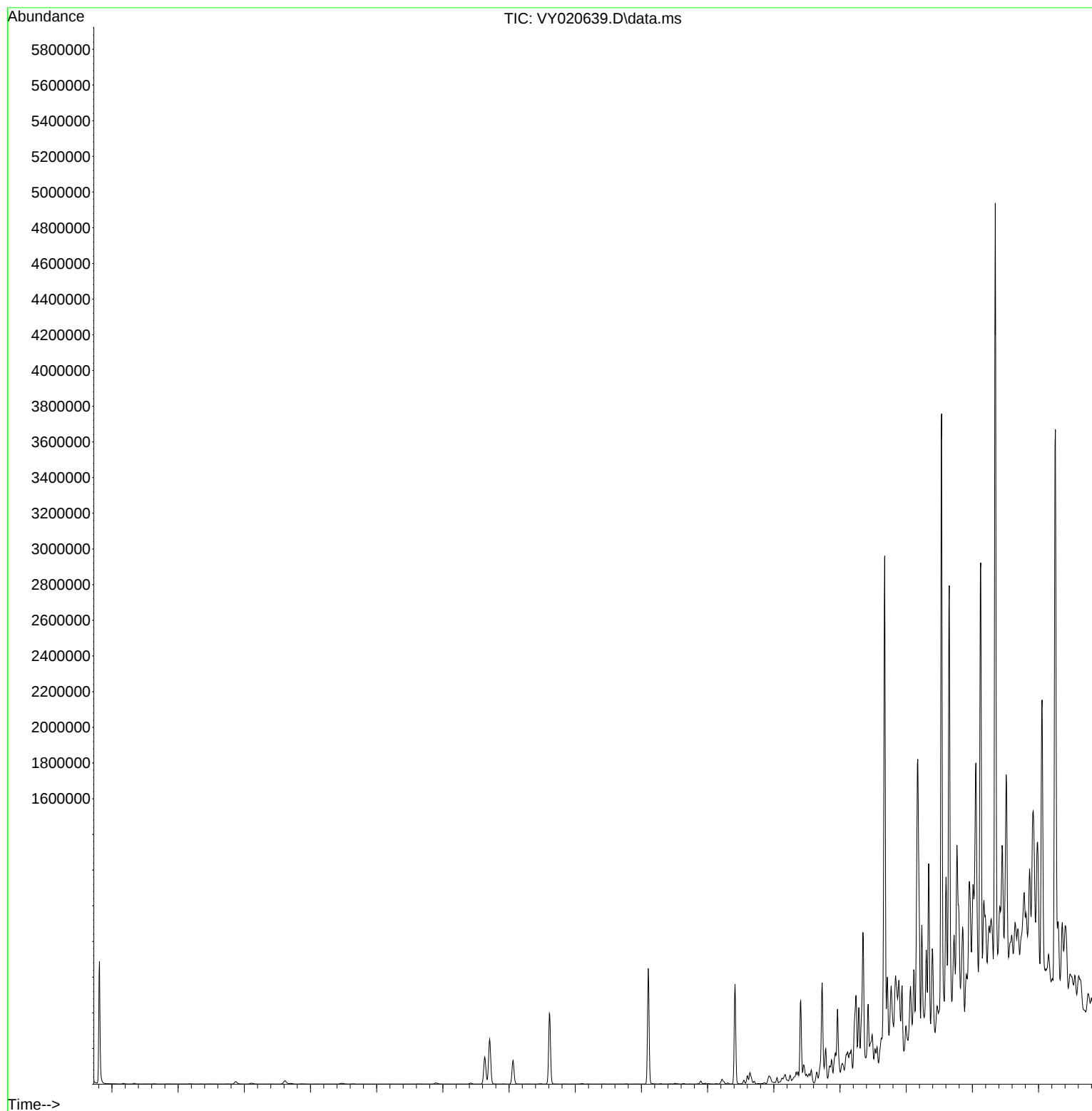
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1) Pentafluorobenzene	7.707	168	192200	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	339150	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	294759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	123499	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	104831	49.801	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	99.600%
35) Dibromofluoromethane	7.634	113	107937	45.157	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	90.320%
50) Toluene-d8	10.103	98	408746	48.857	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.720%
62) 4-Bromofluorobenzene	12.401	95	132372	40.448	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	80.900%
Target Compounds						
					Qvalue	
16) Acetone	3.872	43	25384	55.697	ug/l	97
17) Carbon Disulfide	4.104	76	8955	1.142	ug/l	99
20) Methylene Chloride	4.616	84	13870	5.300	ug/l	94
25) 2-Butanone	6.890	43	8591	10.982	ug/l	93

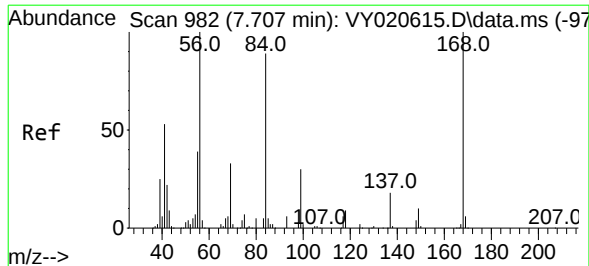
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

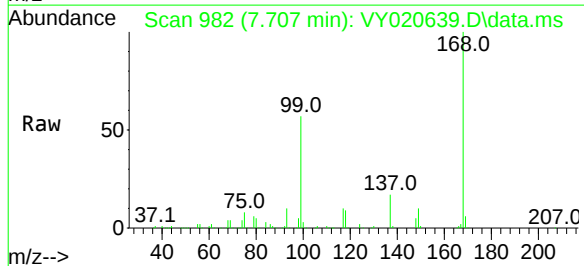
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Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



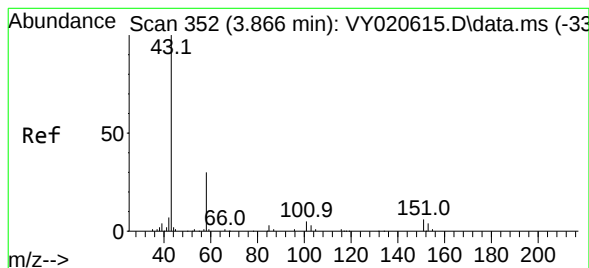
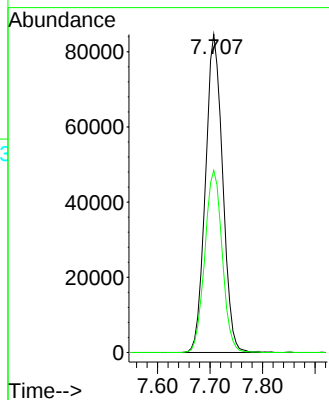
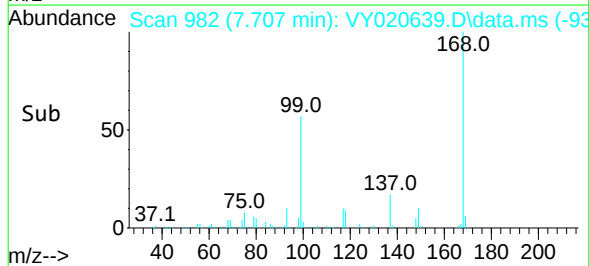


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

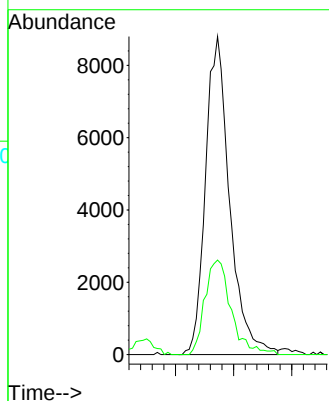
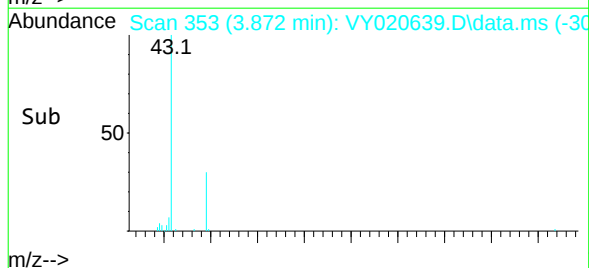
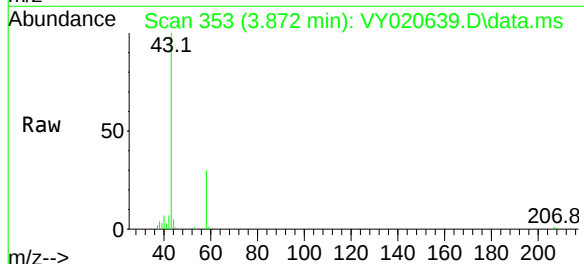


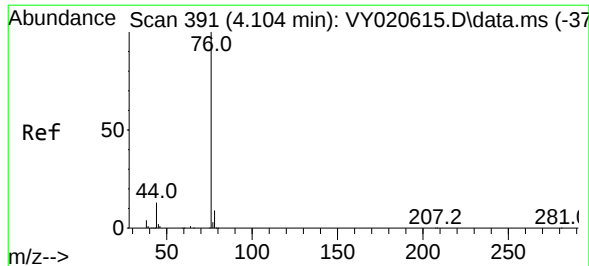
Tgt Ion:168 Resp: 192200
Ion Ratio Lower Upper
168 100
99 57.2 47.0 70.6



#16
Acetone
Concen: 55.697 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Tgt Ion: 43 Resp: 25384
Ion Ratio Lower Upper
43 100
58 29.7 25.0 37.6





#17

Carbon Disulfide

Concen: 1.142 ug/l

RT: 4.104 min Scan# 391

Delta R.T. 0.000 min

Lab File: VY020639.D

Acq: 18 Dec 2024 16:27

Instrument :

MSVOA_Y

ClientSampleId :

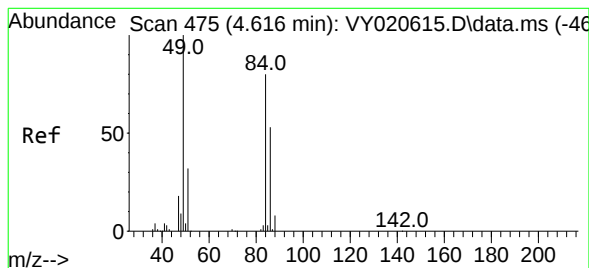
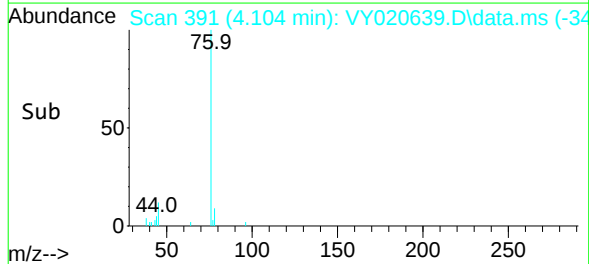
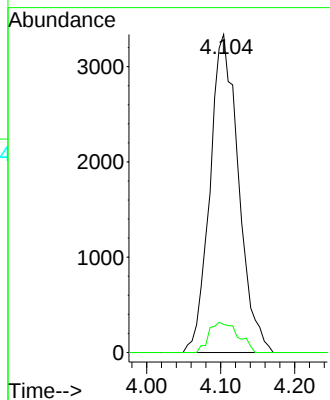
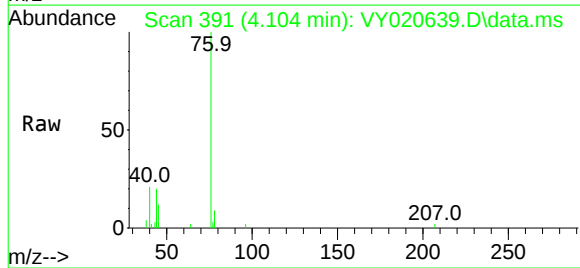
SB-02

Tgt Ion: 76 Resp: 8955

Ion Ratio Lower Upper

76 100

78 8.8 7.2 10.8



#20

Methylene Chloride

Concen: 5.300 ug/l

RT: 4.616 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY020639.D

Acq: 18 Dec 2024 16:27

Tgt Ion: 84 Resp: 13870

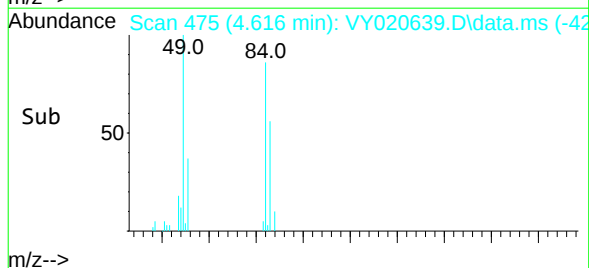
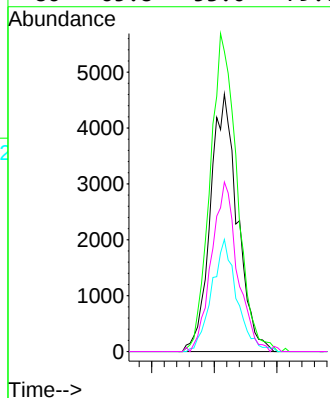
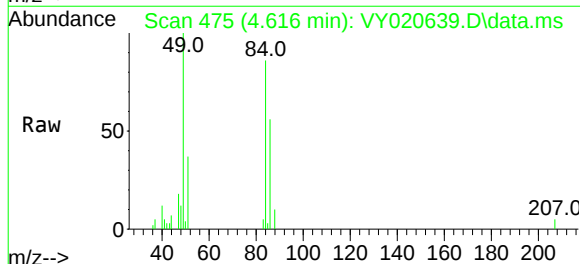
Ion Ratio Lower Upper

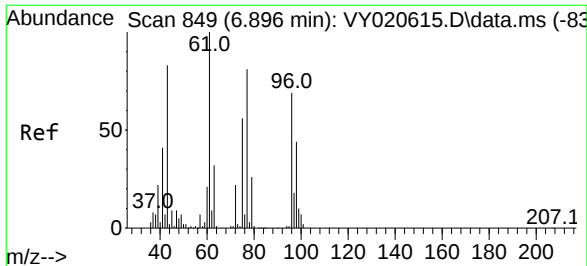
84 100

49 116.6 100.7 151.1

51 43.5 32.2 48.2

86 65.8 53.0 79.6





#25

2-Butanone

Concen: 10.982 ug/l

RT: 6.890 min Scan# 84

Delta R.T. -0.006 min

Lab File: VY020639.D

Acq: 18 Dec 2024 16:27

Instrument :

MSVOA_Y

ClientSampleId :

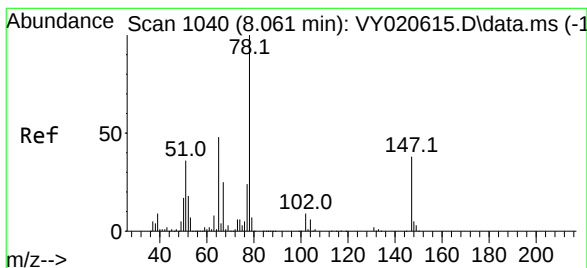
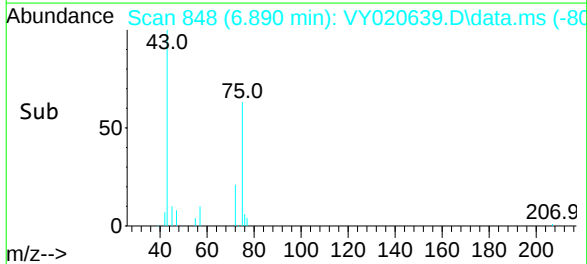
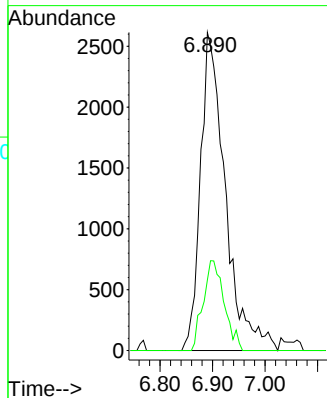
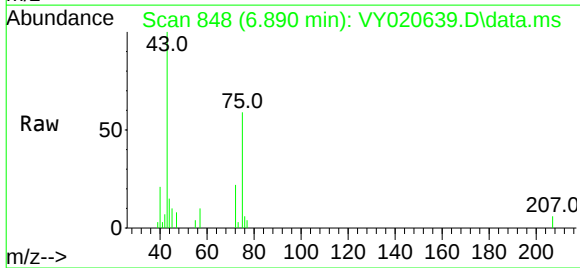
SB-02

Tgt Ion: 43 Resp: 8591

Ion Ratio Lower Upper

43 100

72 22.2 20.6 31.0



#33

1,2-Dichloroethane-d4

Concen: 49.801 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY020639.D

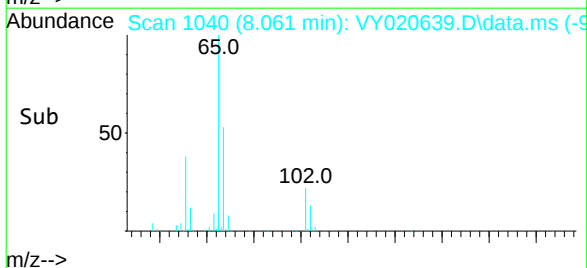
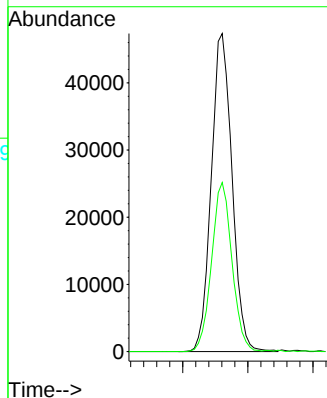
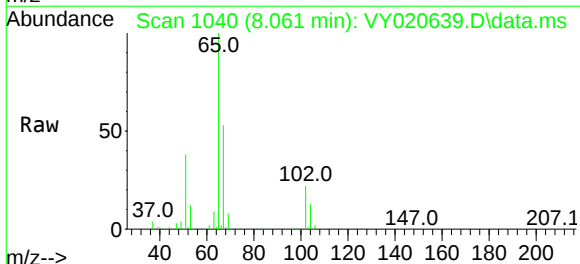
Acq: 18 Dec 2024 16:27

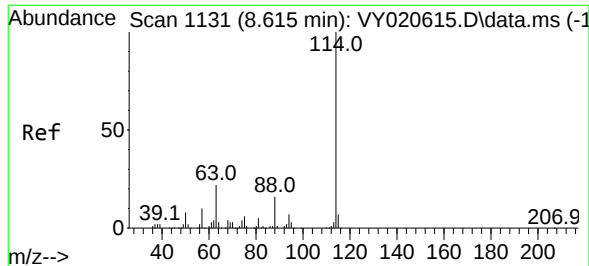
Tgt Ion: 65 Resp: 104831

Ion Ratio Lower Upper

65 100

67 52.2 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY020639.D

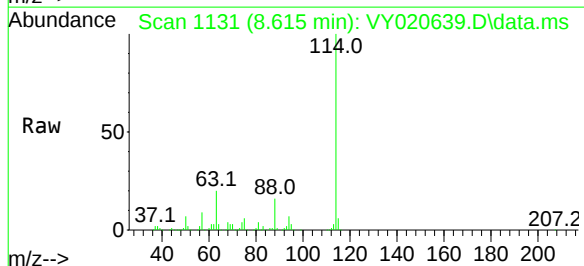
Acq: 18 Dec 2024 16:27

Instrument :

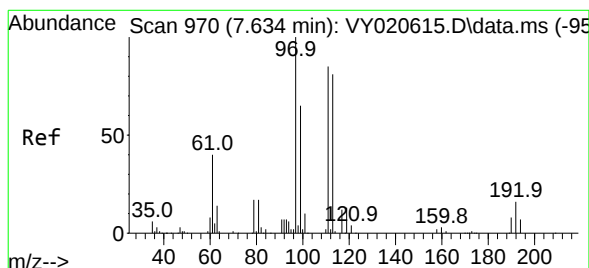
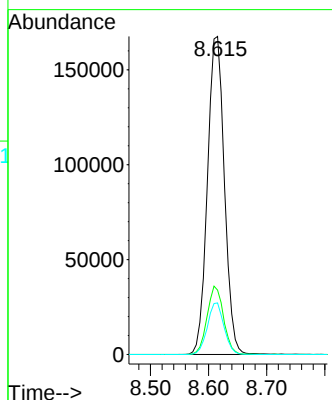
MSVOA_Y

ClientSampleId :

SB-02



Tgt Ion:	114	Resp:	339150
Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	44.0
88	16.2	0.0	32.8



#35

Dibromofluoromethane

Concen: 45.157 ug/l

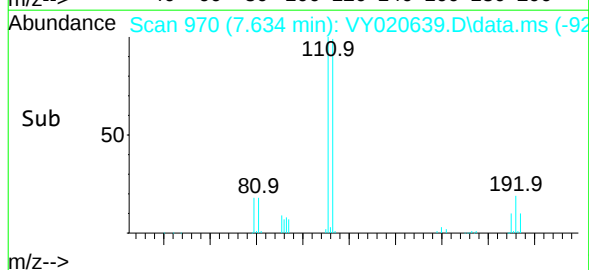
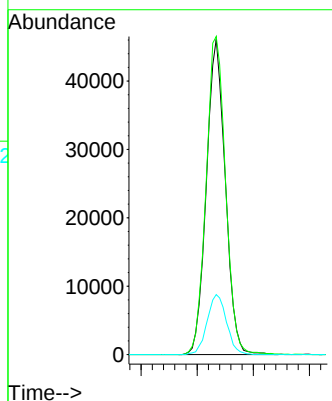
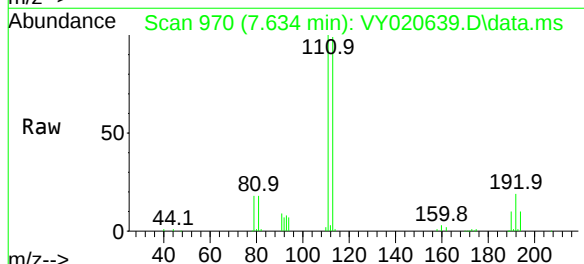
RT: 7.634 min Scan# 970

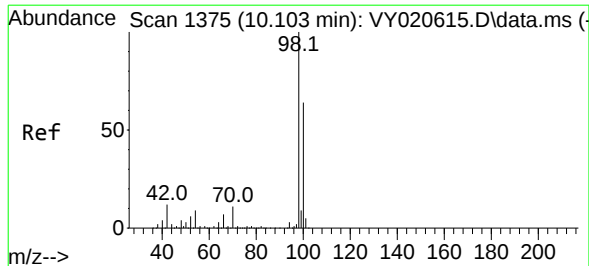
Delta R.T. 0.000 min

Lab File: VY020639.D

Acq: 18 Dec 2024 16:27

Tgt Ion:	113	Resp:	107937
Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.9	124.3
192	19.5	15.7	23.5





#50

Toluene-d8

Concen: 48.857 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY020639.D

Acq: 18 Dec 2024 16:27

Instrument :

MSVOA_Y

ClientSampleId :

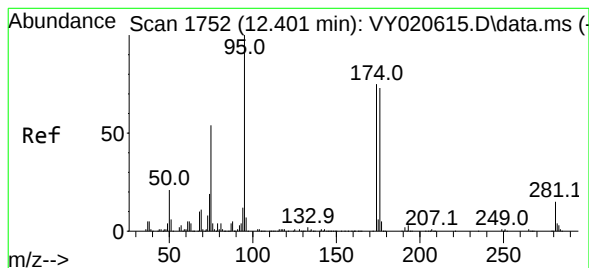
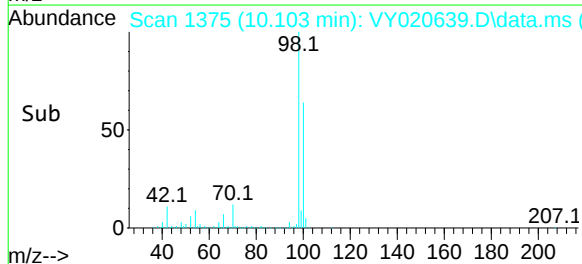
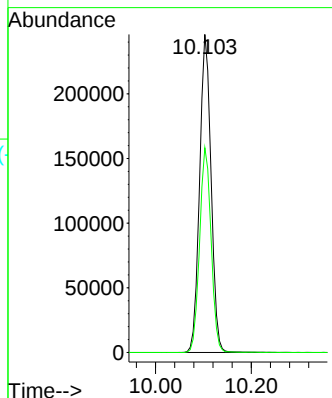
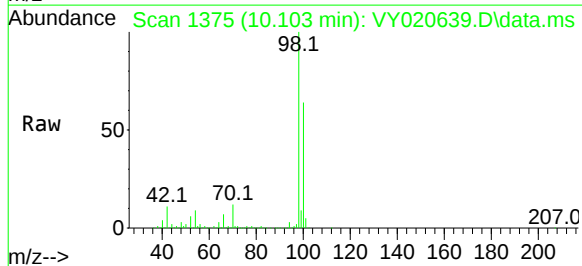
SB-02

Tgt Ion: 98 Resp: 408746

Ion Ratio Lower Upper

98 100

100 64.5 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 40.448 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY020639.D

Acq: 18 Dec 2024 16:27

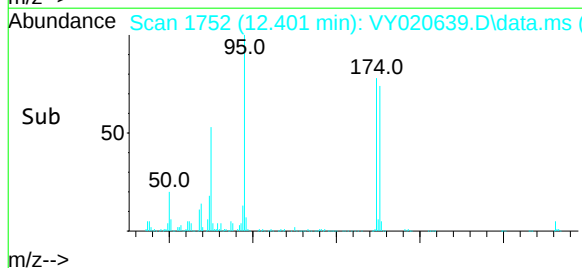
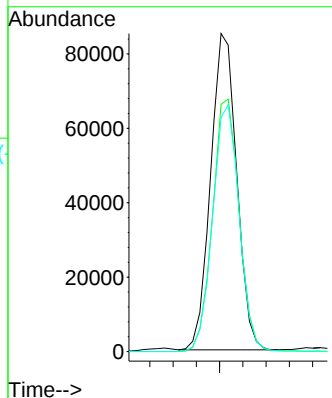
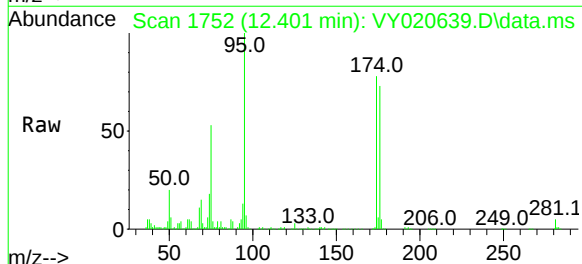
Tgt Ion: 95 Resp: 132372

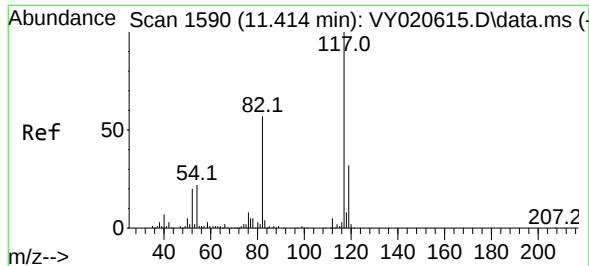
Ion Ratio Lower Upper

95 100

174 81.5 0.0 161.8

176 79.3 0.0 156.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY020639.D

Acq: 18 Dec 2024 16:27

Instrument :

MSVOA_Y

ClientSampleId :

SB-02

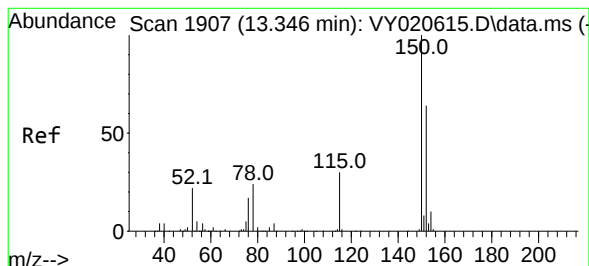
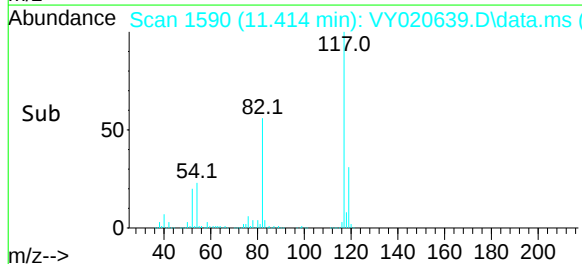
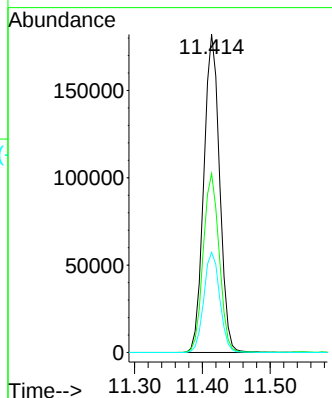
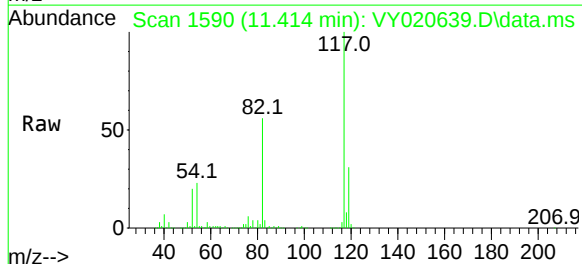
Tgt Ion:117 Resp: 294759

Ion Ratio Lower Upper

117 100

82 56.2 45.8 68.6

119 31.5 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY020639.D

Acq: 18 Dec 2024 16:27

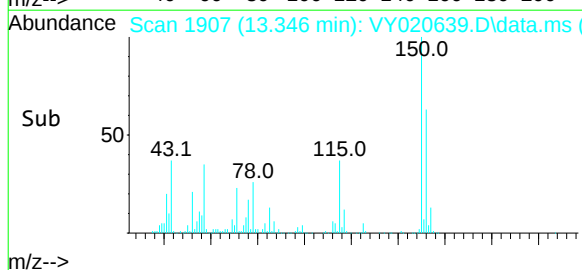
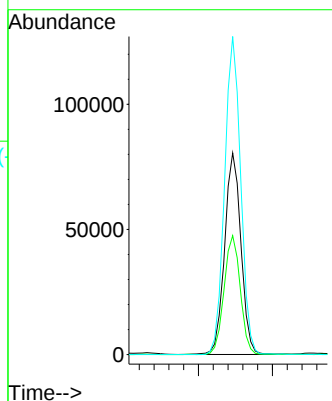
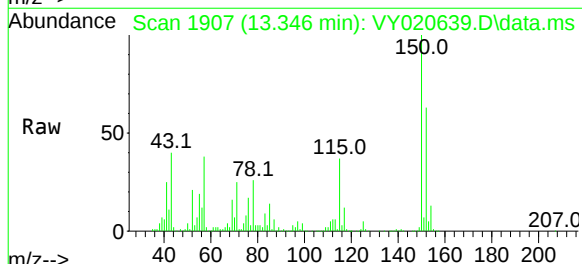
Tgt Ion:152 Resp: 123499

Ion Ratio Lower Upper

152 100

115 58.8 30.2 90.6

150 155.3 0.0 355.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M

Title : SW846 8260

Signal : TIC: VY020639.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.812	9	15	32	rVB	685064	941421	15.63%	1.304%
2	7.634	960	970	976	rBV	151205	363505	6.04%	0.503%
3	7.707	976	982	993	rVB	250084	569026	9.45%	0.788%
4	8.061	1028	1040	1051	rBV	131759	290727	4.83%	0.403%
5	8.609	1122	1130	1146	rBV	395128	795313	13.20%	1.101%
6	10.103	1367	1375	1383	rBV	648517	1082929	17.98%	1.500%
7	11.414	1583	1590	1601	rVB	557746	909367	15.10%	1.259%
8	11.603	1616	1621	1624	rBV	42032	72334	1.20%	0.100%
9	11.639	1624	1627	1635	rVB4	57911	116647	1.94%	0.162%
10	11.932	1667	1675	1686	rBV7	42746	145325	2.41%	0.201%
11	12.170	1709	1714	1722	rVB5	35414	76799	1.28%	0.106%
12	12.407	1748	1753	1757	rBV3	417350	656993	10.91%	0.910%
13	12.450	1757	1760	1765	rVB3	59697	96726	1.61%	0.134%
14	12.566	1776	1779	1786	rVB2	74070	124186	2.06%	0.172%
15	12.651	1786	1793	1796	rBV4	60572	121136	2.01%	0.168%
16	12.731	1796	1806	1811	rBV2	534372	1004540	16.68%	1.391%
17	12.785	1811	1815	1820	rVB	165879	264398	4.39%	0.366%
18	12.840	1820	1824	1826	rBV3	69499	108595	1.80%	0.150%
19	12.871	1826	1829	1833	rVB2	72712	97957	1.63%	0.136%
20	12.932	1833	1839	1840	rBV3	111341	199925	3.32%	0.277%
21	12.962	1840	1844	1851	rVB	352495	569750	9.46%	0.789%
22	13.035	1851	1856	1861	rBV5	48969	112256	1.86%	0.155%
23	13.096	1861	1866	1867	rBV2	88425	132473	2.20%	0.183%
24	13.243	1882	1890	1893	rBV3	408164	996792	16.55%	1.380%
25	13.285	1893	1897	1900	rVV2	299750	448605	7.45%	0.621%
26	13.346	1900	1907	1914	rVB3	705021	1389905	23.08%	1.925%
27	13.425	1915	1920	1923	rBV2	298721	438811	7.29%	0.608%
28	13.529	1934	1937	1940	rBV3	54929	80555	1.34%	0.112%
29	13.560	1940	1942	1946	rVB2	90340	102134	1.70%	0.141%
30	13.627	1946	1953	1954	rBV4	139621	273802	4.55%	0.379%
31	13.675	1954	1961	1965	rBV2	2706582	4197883	69.70%	5.814%
32	13.718	1965	1968	1972	rVB2	327135	419830	6.97%	0.581%
33	13.773	1972	1977	1983	rBV4	277320	577333	9.59%	0.800%
34	13.840	1983	1988	1993	rBV4	282688	678301	11.26%	0.939%
35	13.938	2001	2004	2009	rVB2	367489	494631	8.21%	0.685%
36	13.999	2009	2014	2018	rBV5	141409	277146	4.60%	0.384%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260

37	14.066	2019	2025	2029	rVV2	318881	609734	10.12%	0.844%
38	14.114	2029	2033	2036	rVV3	389552	628452	10.43%	0.870%
39	14.175	2036	2043	2050	rVV7	1548671	3801720	63.12%	5.265%
40	14.236	2050	2053	2059	rVV3	587451	845716	14.04%	1.171%
41	14.303	2060	2064	2067	rVV2	425756	649732	10.79%	0.900%
42	14.340	2067	2070	2075	rVB	897415	1242303	20.63%	1.720%
43	14.395	2075	2079	2086	rVB3	468169	819431	13.60%	1.135%
44	14.468	2087	2091	2094	rBV4	125084	236640	3.93%	0.328%
45	14.535	2097	2102	2109	rVV	3342949	4706494	78.14%	6.518%
46	14.602	2109	2113	2116	rVV2	716528	1112630	18.47%	1.541%
47	14.651	2116	2121	2127	rVB	2334796	3649462	60.59%	5.054%
48	14.724	2128	2133	2136	rBV4	366742	655329	10.88%	0.908%
49	14.767	2136	2140	2149	rVV4	821459	1943816	32.27%	2.692%
50	14.852	2149	2154	2159	rVB6	475386	959954	15.94%	1.329%
51	14.907	2159	2163	2166	rBV4	209260	409265	6.79%	0.567%
52	14.956	2166	2171	2176	rVV4	551522	1216490	20.20%	1.685%
53	15.011	2176	2180	2182	rVV2	514981	900432	14.95%	1.247%
54	15.053	2183	2187	2193	rVB3	1175331	2196832	36.47%	3.042%
55	15.126	2193	2199	2203	rBV	2293946	3691242	61.29%	5.112%
56	15.175	2203	2207	2215	rVB5	348485	892907	14.82%	1.237%
57	15.346	2230	2235	2241	rBV	4237546	6023066	100.00%	8.341%
58	15.413	2243	2246	2248	rVV4	290611	464217	7.71%	0.643%
59	15.450	2249	2252	2257	rVV3	631069	1112507	18.47%	1.541%
60	15.510	2257	2262	2268	rVB2	1024072	1887465	31.34%	2.614%
61	15.864	2317	2320	2324	rBV2	308879	476548	7.91%	0.660%
62	15.919	2324	2329	2335	rVV5	691247	1709389	28.38%	2.367%
63	15.986	2335	2340	2346	rVB4	679938	1482083	24.61%	2.052%
64	16.053	2346	2351	2359	rVB	1516260	2674814	44.41%	3.704%
65	16.254	2378	2384	2389	rBV	3086922	5451255	90.51%	7.549%
66	16.358	2397	2401	2405	rBV3	284518	531164	8.82%	0.736%

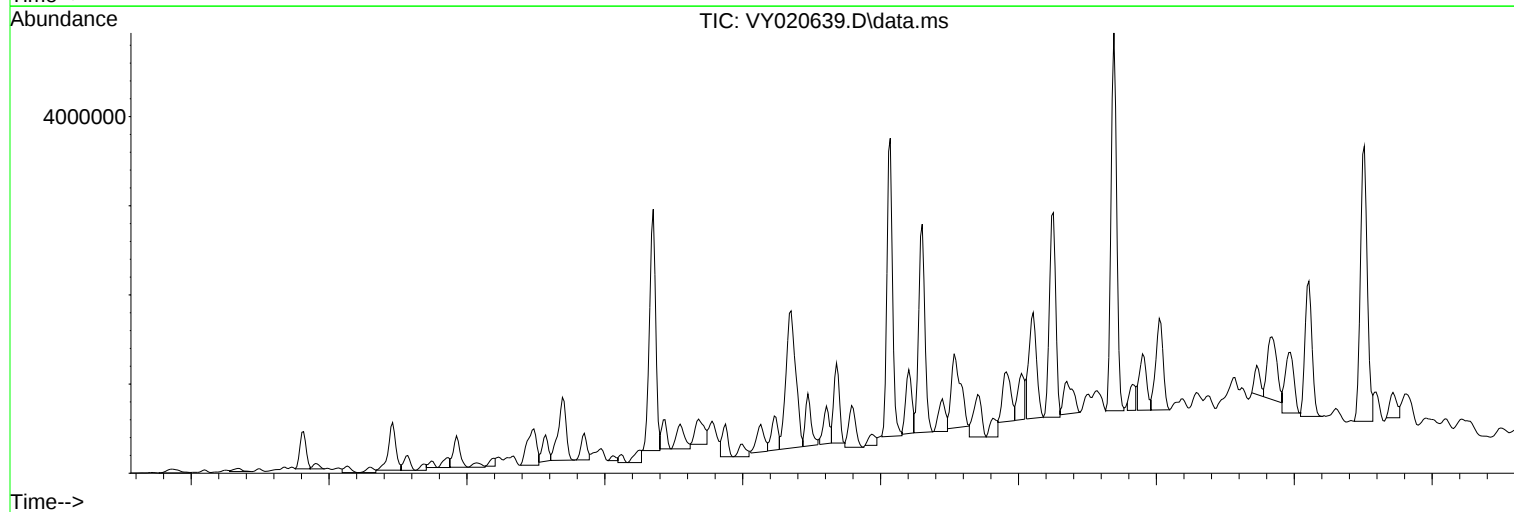
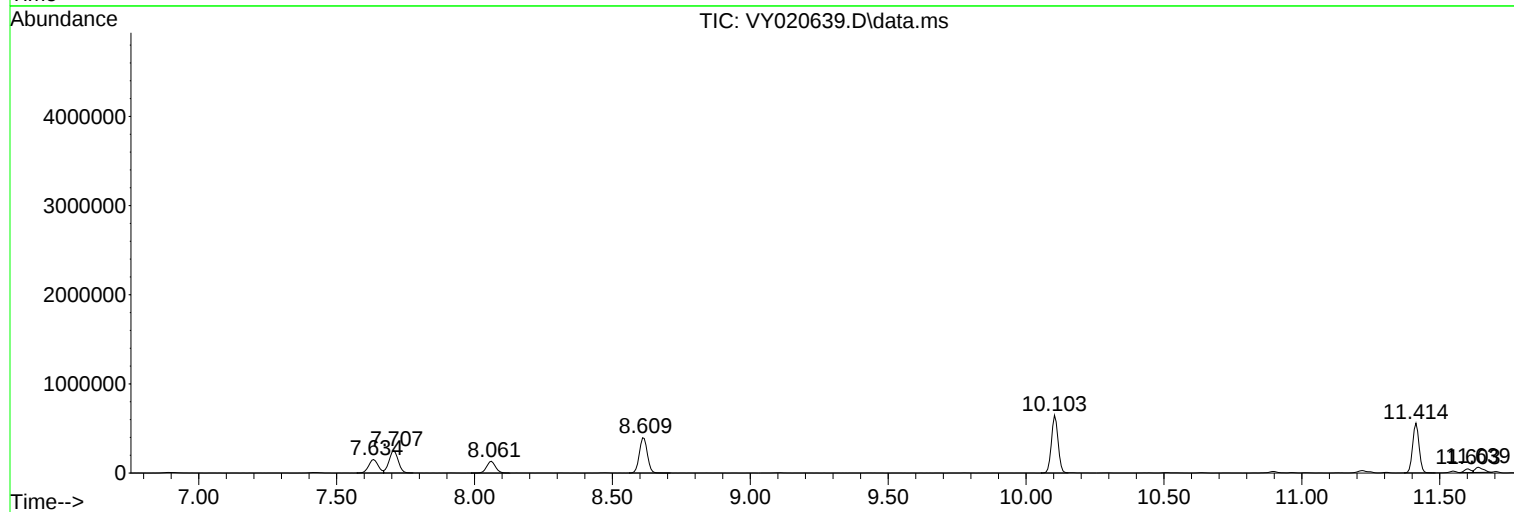
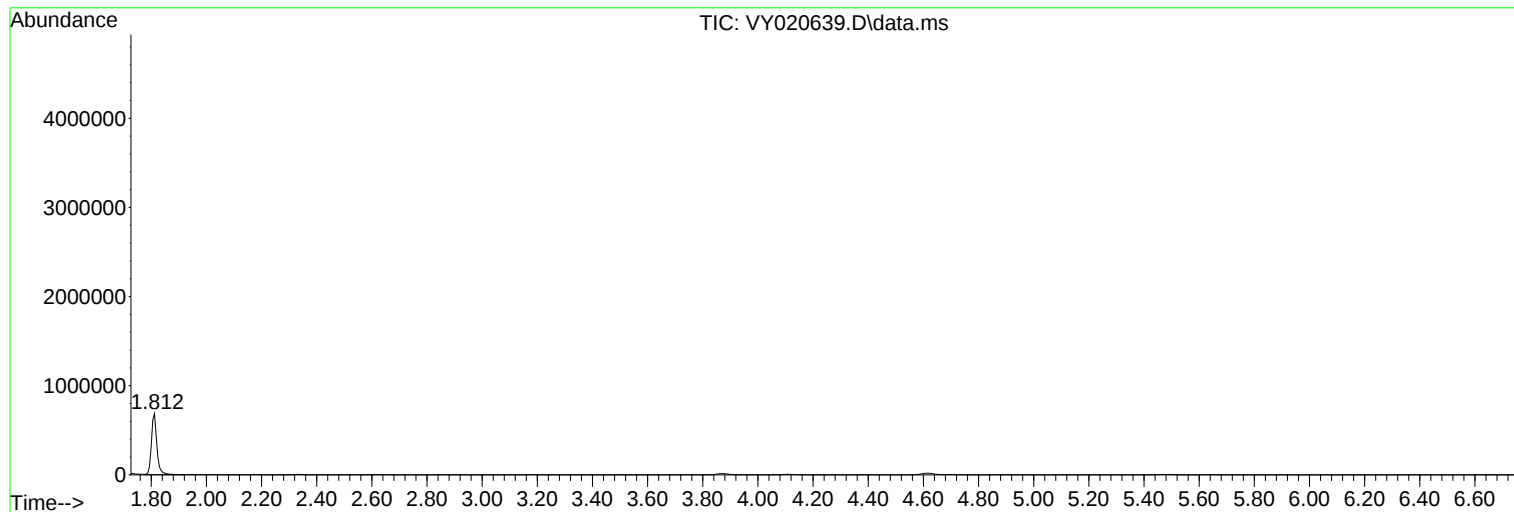
Sum of corrected areas: 72209145

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

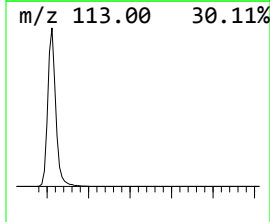
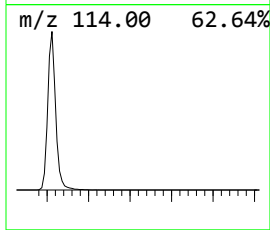
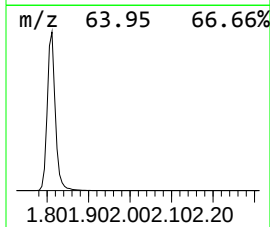
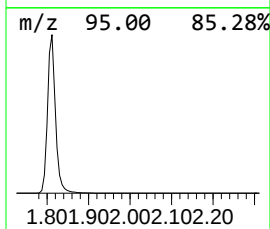
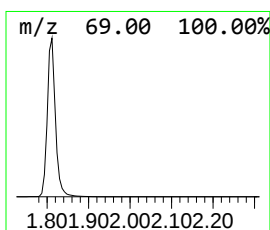
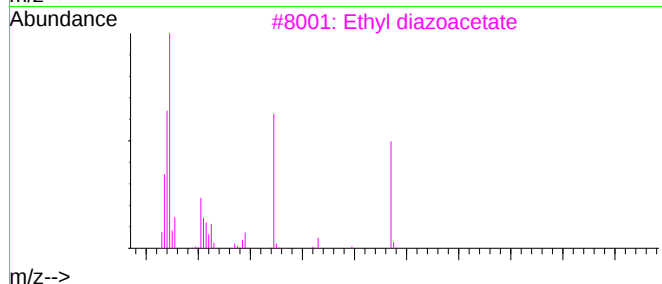
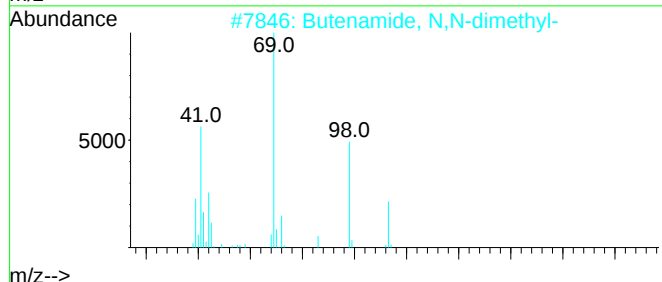
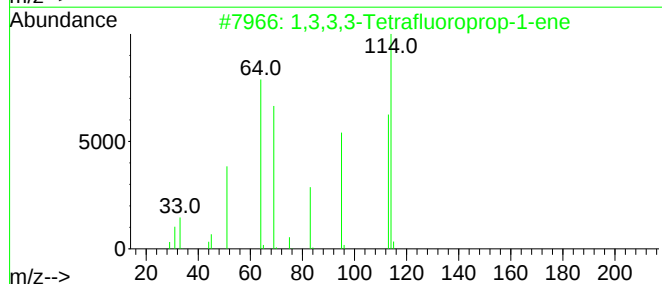
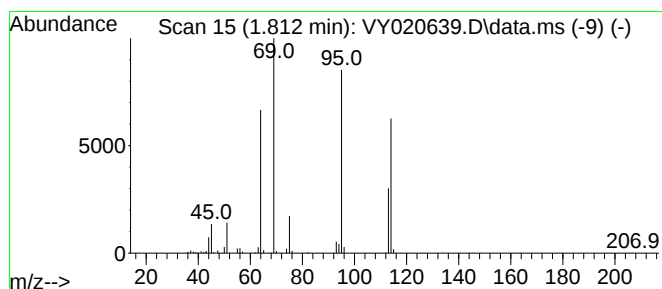
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Quant Title : SW846 8260

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

Peak Number 1 unknown1.812 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.812	82.72 ug/l	941421	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1,3,3,3-Tetrafluoroprop-1-ene	114	C3H2F4	1000389-53-0	10
2			Butenamide, N,N-dimethyl-	113	C6H11NO	023135-18-4	9
3			Ethyl diazoacetate	114	C4H6N2O2	000623-73-4	9
4			2-Pentenoic acid, 2-methyl-	114	C6H10O2	003142-72-1	9
5			3-Pyridinol	95	C5H5NO	000109-00-2	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

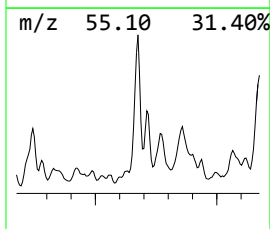
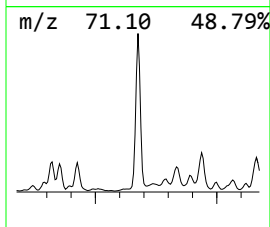
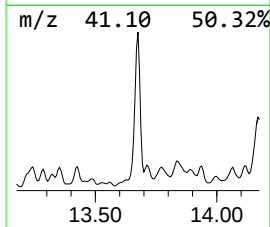
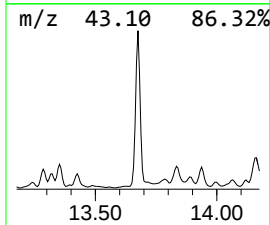
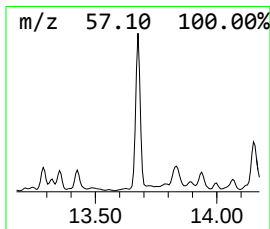
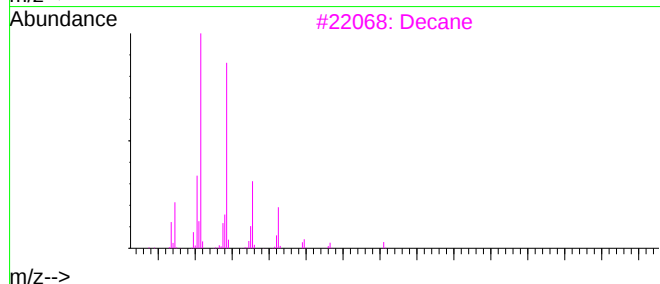
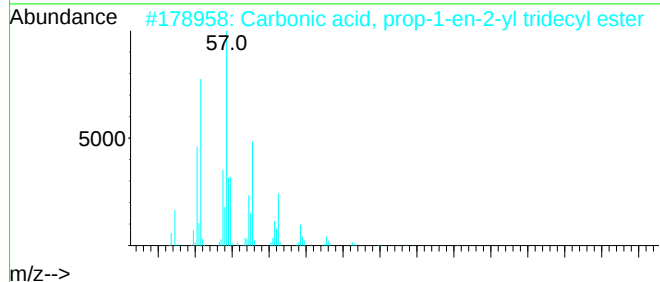
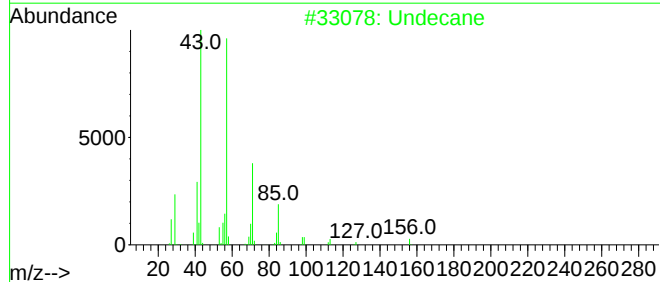
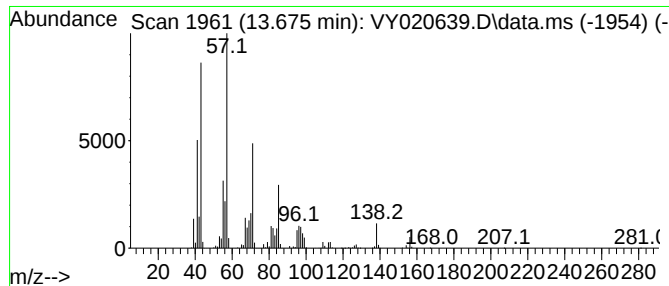
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Quant Title : SW846 8260

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

Peak Number 2 Undecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.676	151.01 ug/l	4197880	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	81
2	Carbonic acid, prop-1-en-2-yl tr...	284	C17H32O3	1000382-90-8	80
3	Decane	142	C10H22	000124-18-5	64
4	Carbonic acid, prop-1-en-2-yl te...	298	C18H34O3	1000382-90-9	64
5	Tetradecane	198	C14H30	000629-59-4	64



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

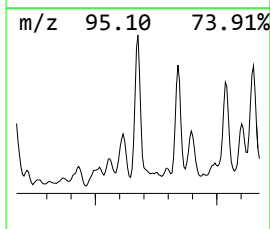
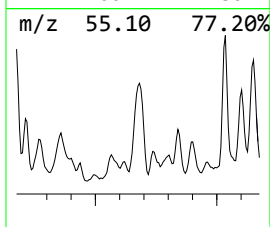
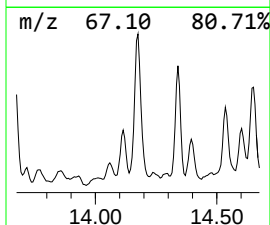
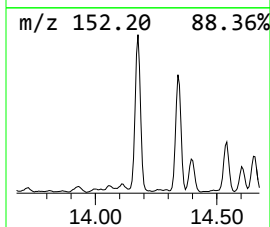
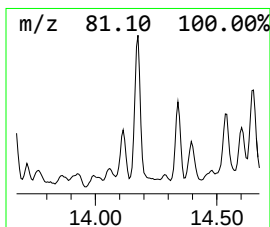
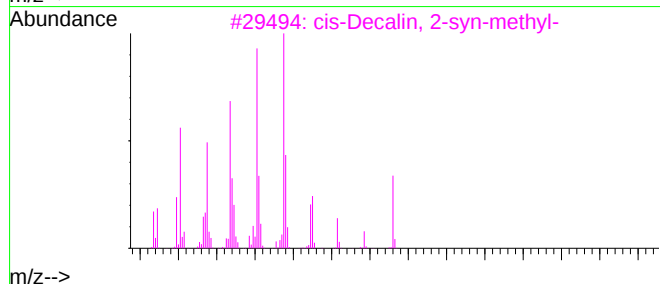
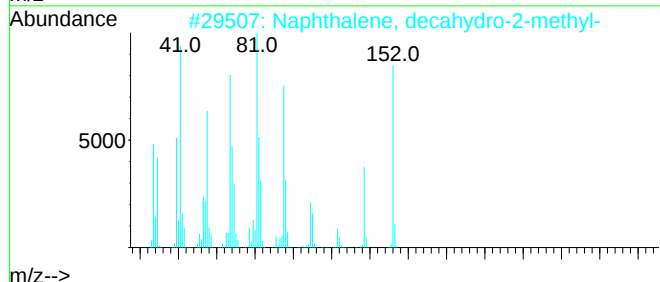
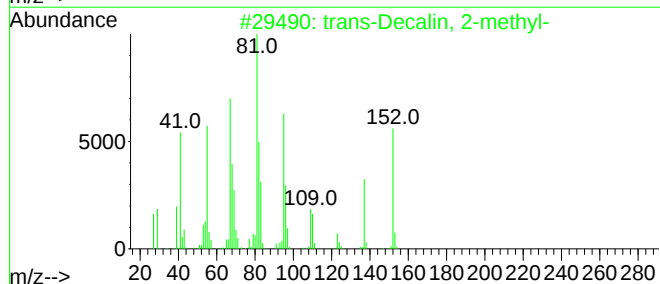
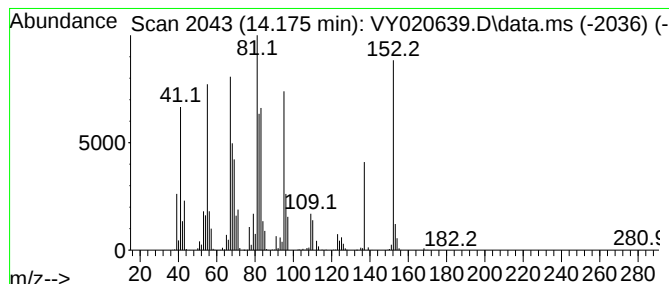
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Quant Title : SW846 8260

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

Peak Number 3 trans-Decalin, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.175	136.76 ug/l	3801720	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	97
2	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	97
3	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	74
4	Decalin, syn-1-methyl-, cis-	152	C11H20	1000158-89-1	68
5	Decalin, anti-1-methyl-, cis-	152	C11H20	1000158-89-0	68



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

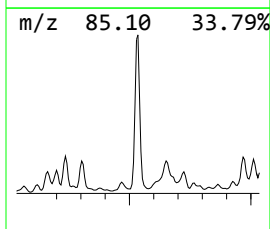
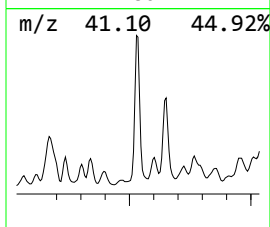
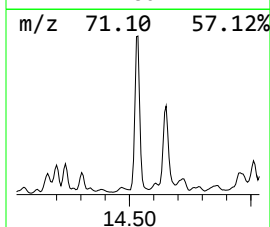
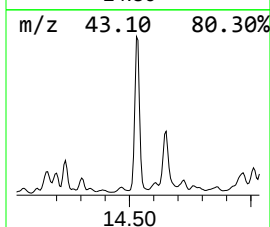
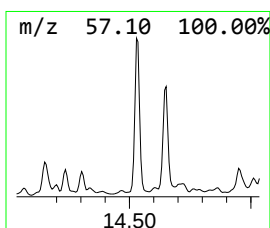
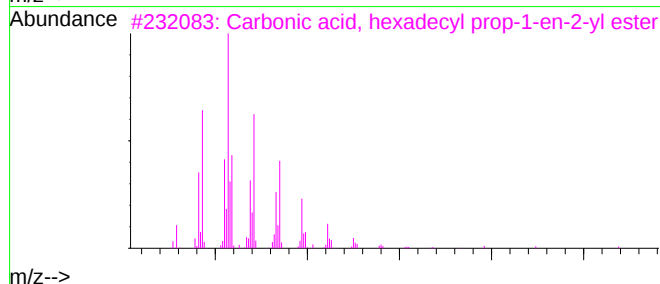
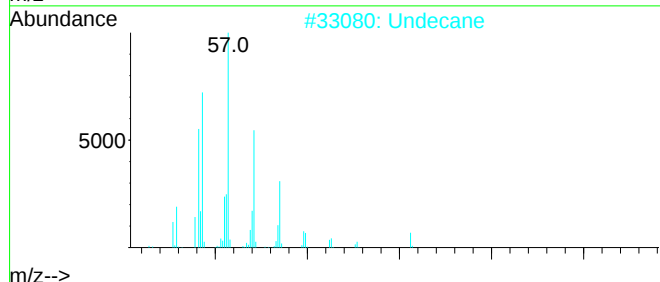
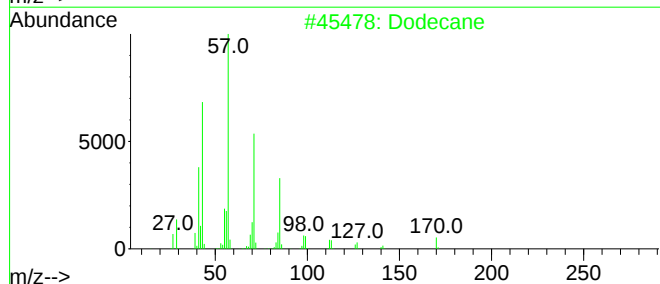
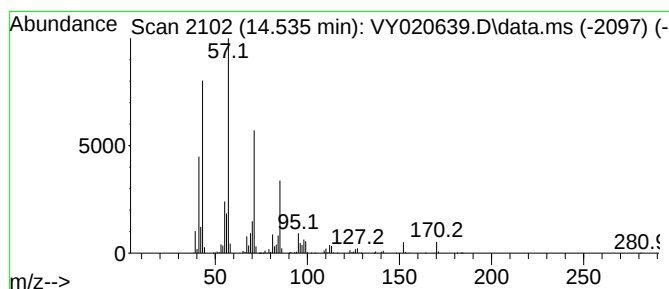
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Quant Title : SW846 8260

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

Peak Number 4 Dodecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.535	169.31 ug/l	4706490	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	96
2	Undecane	156	C11H24	001120-21-4	72
3	Carbonic acid, hexadecyl prop-1-...	326	C20H38O3	1000382-90-3	72
4	Carbonic acid, octadecyl prop-1-...	354	C22H42O3	1000383-11-5	64
5	Hexadecane	226	C16H34	000544-76-3	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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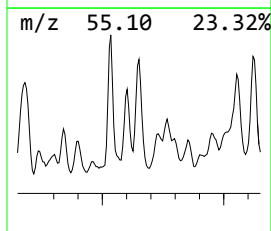
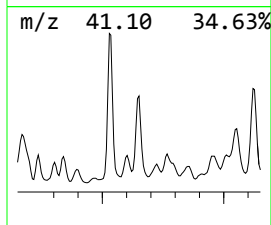
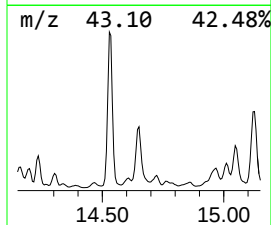
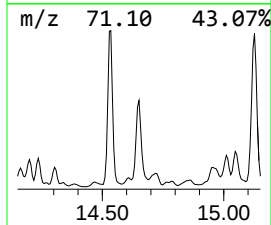
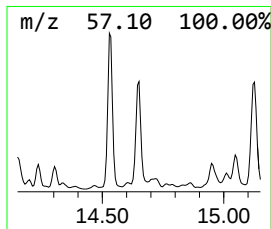
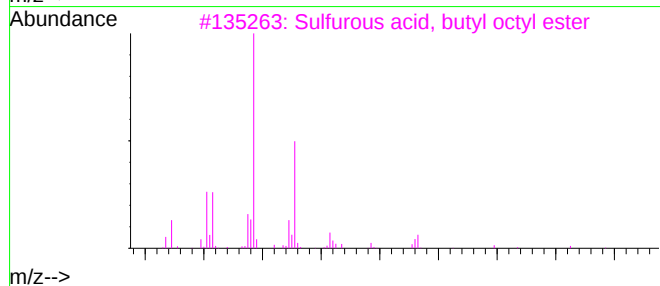
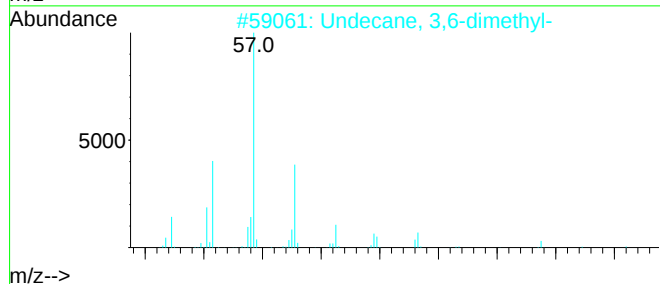
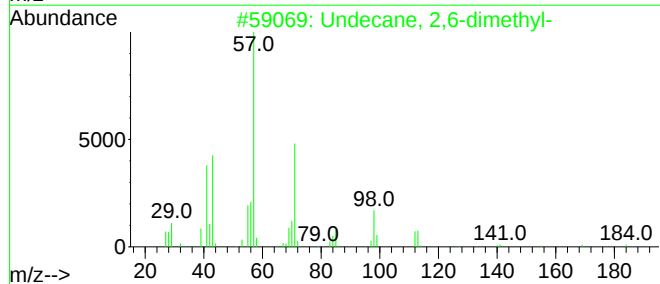
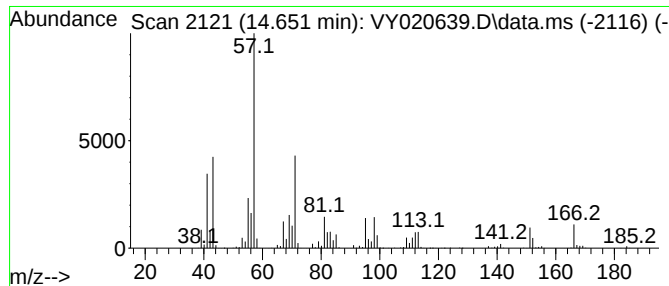
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Quant Title : SW846 8260

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

Peak Number 5 Undecane, 2,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.651	131.29 ug/l	3649460	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	93
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	60
3	Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	49
4	Dodecane, 6-methyl-	184	C13H28	006044-71-9	45
5	Sulfurous acid, 2-ethylhexyl oct...	446	C26H54O3S	1000309-20-1	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

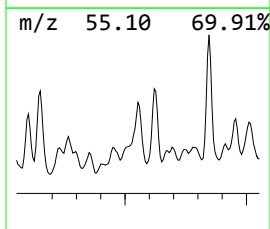
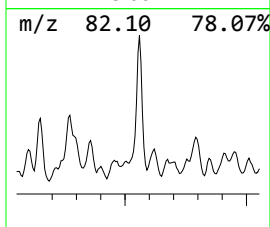
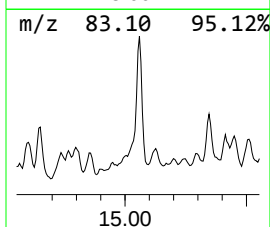
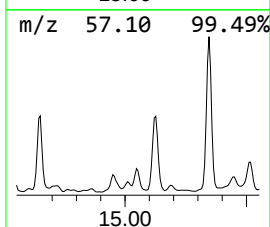
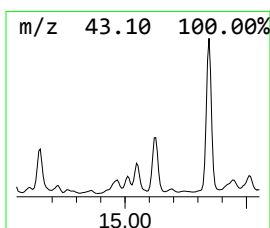
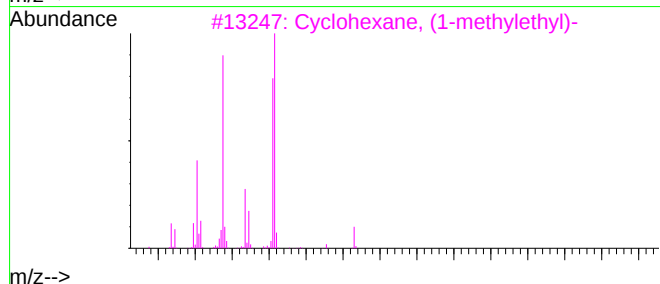
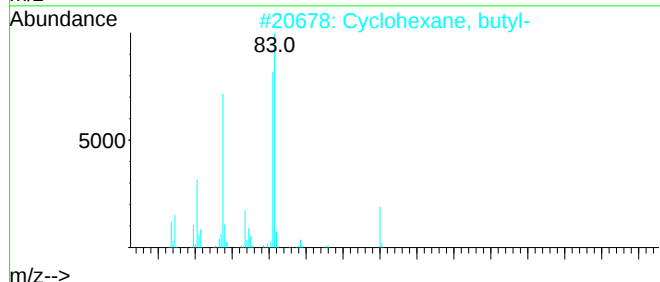
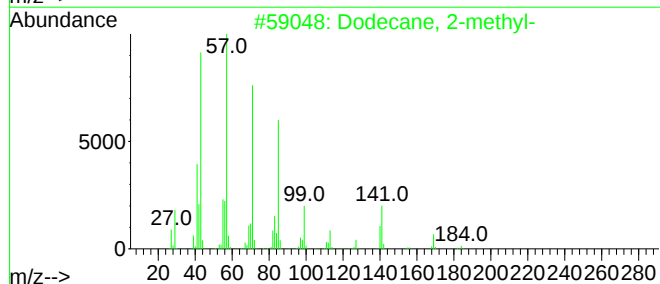
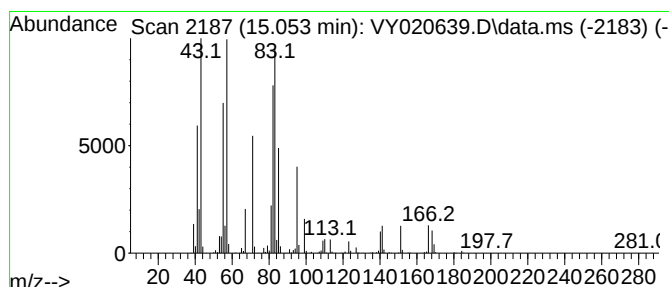
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Quant Title : SW846 8260

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

Peak Number 6 Dodecane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.053	79.03 ug/l	2196830	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2-methyl-	184	C13H28	001560-97-0	64
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	43
3	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	35
4	1,1'-Bicyclohexyl	166	C12H22	000092-51-3	22
5	Undecane, 3-methyl-	170	C12H26	001002-43-3	18



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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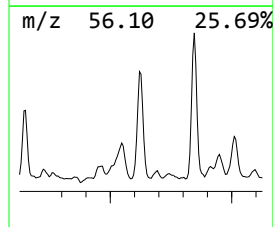
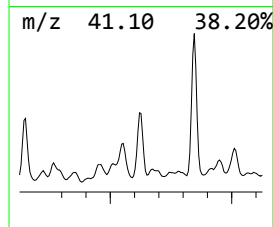
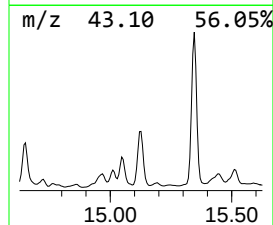
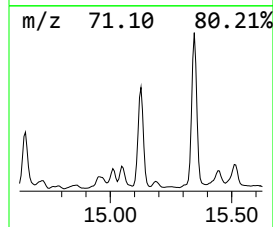
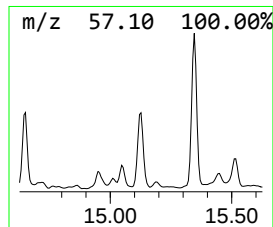
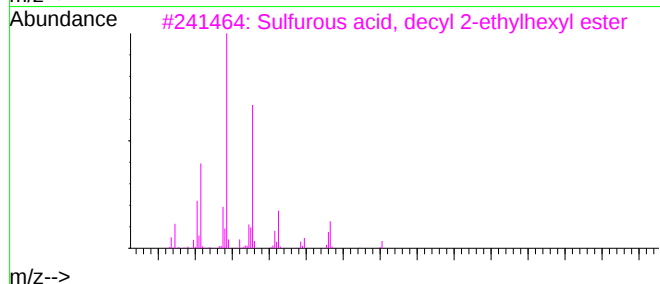
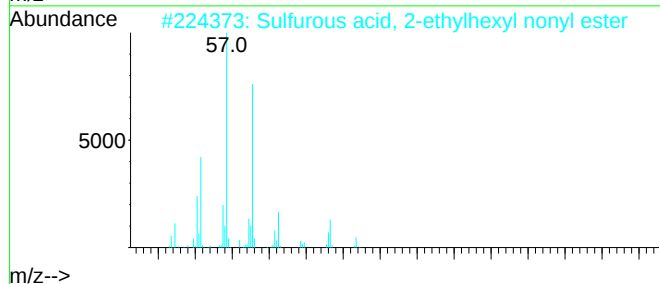
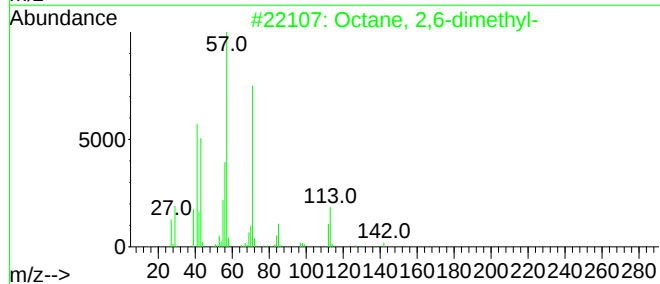
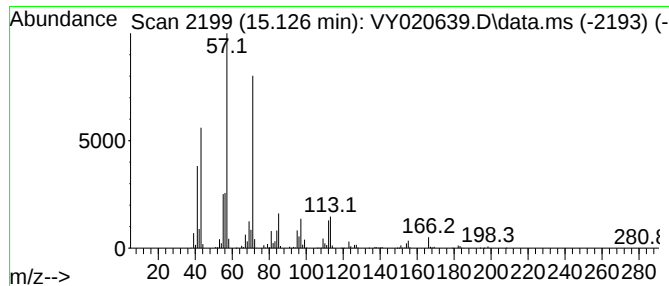
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Quant Title : SW846 8260

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

Peak Number 7 Octane, 2,6-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.126	132.79 ug/l	3691240	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	81
2	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1010309-19-2	72
3	Sulfurous acid, decyl 2-ethylhex...	334	C18H38O3S	1000309-19-3	72
4	Oxalic acid, 2-ethylhexyl nonyl ...	328	C19H36O4	1000309-39-2	64
5	Undecane, 6,6-dimethyl-	184	C13H28	017312-76-4	59



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

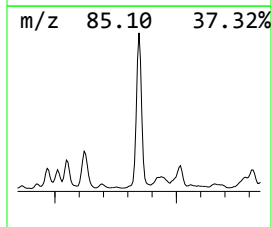
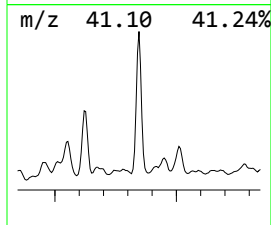
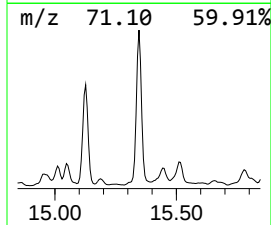
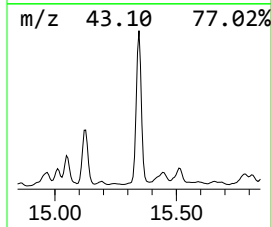
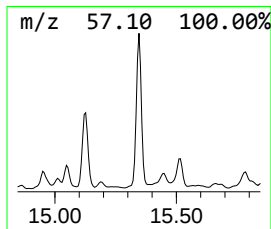
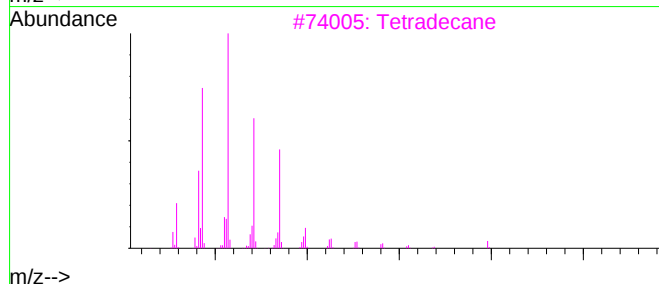
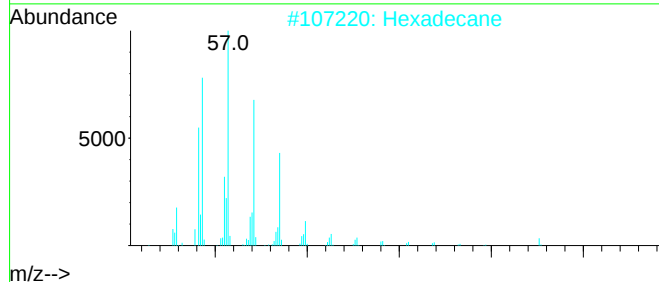
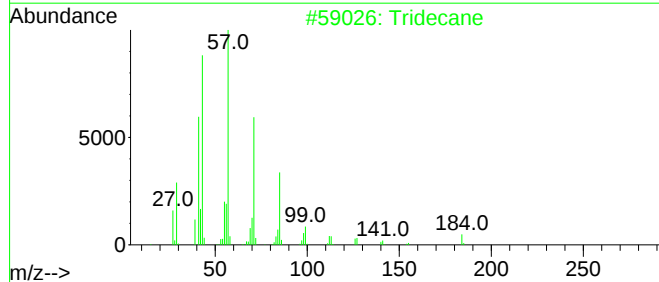
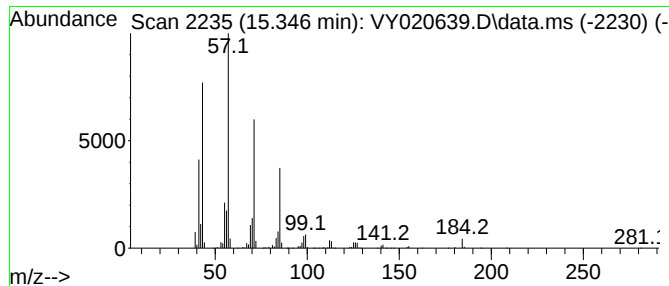
Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

Peak Number 8 Tridecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.346	216.67 ug/l	6023070	1,4-Dichlorobenzene-d4	13.346	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	94
2	Hexadecane	226	C16H34	000544-76-3	91
3	Tetradecane	198	C14H30	000629-59-4	80
4	Hexadecane, 7,9-dimethyl-	254	C18H38	021164-95-4	80
5	Dodecane	170	C12H26	000112-40-3	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

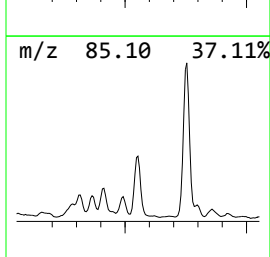
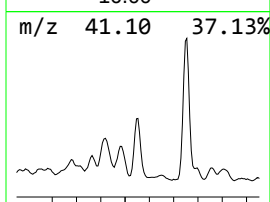
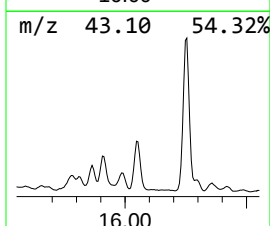
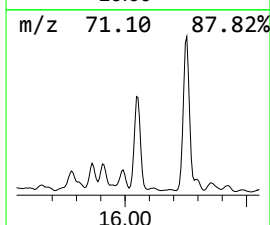
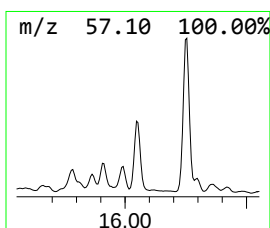
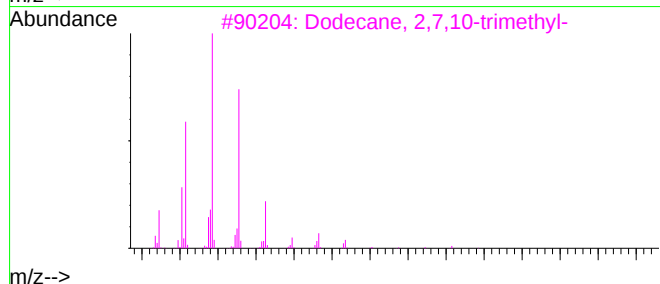
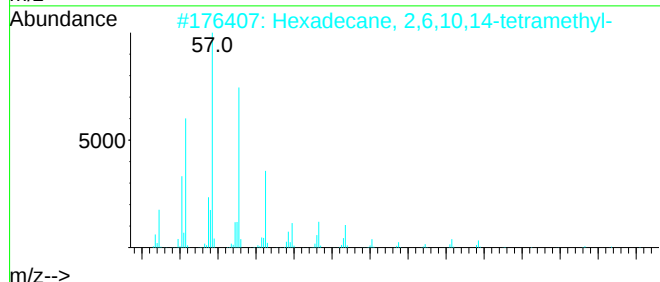
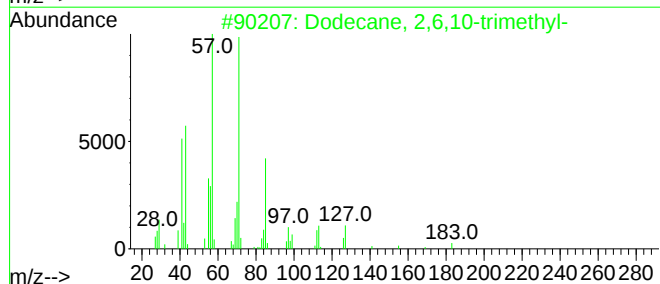
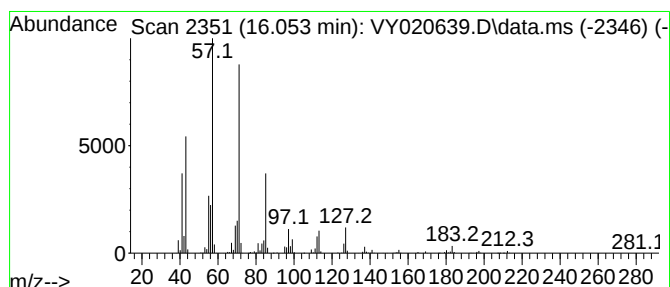
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Quant Title : SW846 8260

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

Peak Number 9 Dodecane, 2,6,10-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.053	96.22 ug/l	2674810	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	90
2	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	90
3	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	86
4	Octane, 2-methyl-	128	C9H20	003221-61-2	81
5	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	78



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

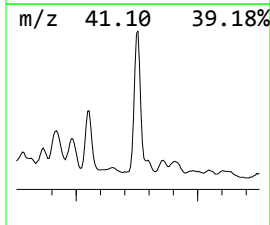
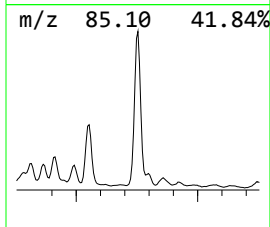
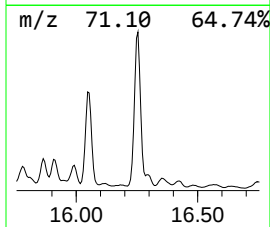
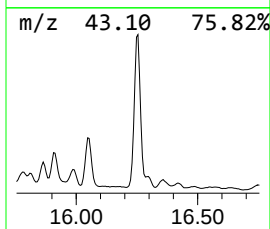
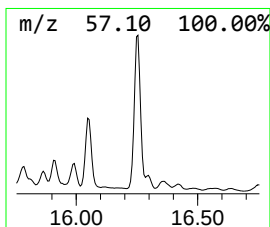
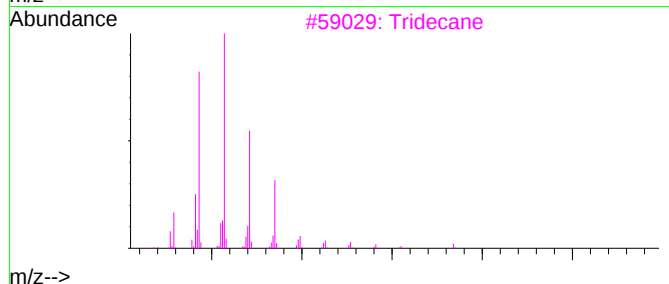
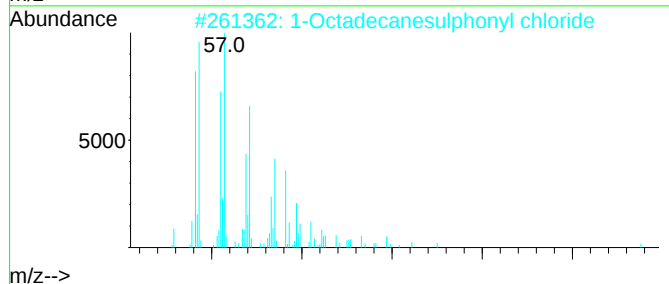
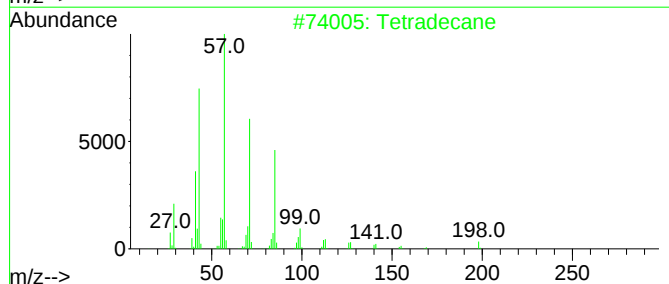
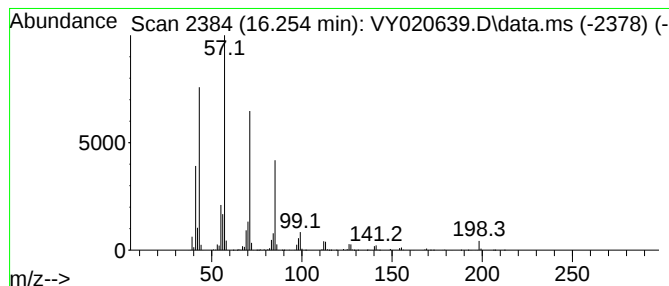
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Quant Title : SW846 8260

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

Peak Number 10 Tetradecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.254	196.10 ug/l	5451260	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Tetradecane	198	C14H30	000629-59-4	98
2			1-Octadecanesulphonyl chloride	352	C18H37ClO2S	1000342-70-4	90
3			Tridecane	184	C13H28	000629-50-5	90
4			Dodecane	170	C12H26	000112-40-3	90
5			Carbonic acid, tetradecyl vinyl ...	284	C17H32O3	1000382-54-5	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown1.812	1.812	82.7	ug/l	941421	1	7.707	569026	50.0
Undecane	13.676	151.0	ug/l	4197880	4	13.346	1389910	50.0
trans-Decalin, ...	14.175	136.8	ug/l	3801720	4	13.346	1389910	50.0
Dodecane	14.535	169.3	ug/l	4706490	4	13.346	1389910	50.0
Undecane, 2,6-d...	14.651	131.3	ug/l	3649460	4	13.346	1389910	50.0
Dodecane, 2-met...	15.053	79.0	ug/l	2196830	4	13.346	1389910	50.0
Octane, 2,6-dim...	15.126	132.8	ug/l	3691240	4	13.346	1389910	50.0
Tridecane	15.346	216.7	ug/l	6023070	4	13.346	1389910	50.0
Dodecane, 2,6,1...	16.053	96.2	ug/l	2674810	4	13.346	1389910	50.0
Tetradecane	16.254	196.1	ug/l	5451260	4	13.346	1389910	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Time: Dec 19 02:50:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

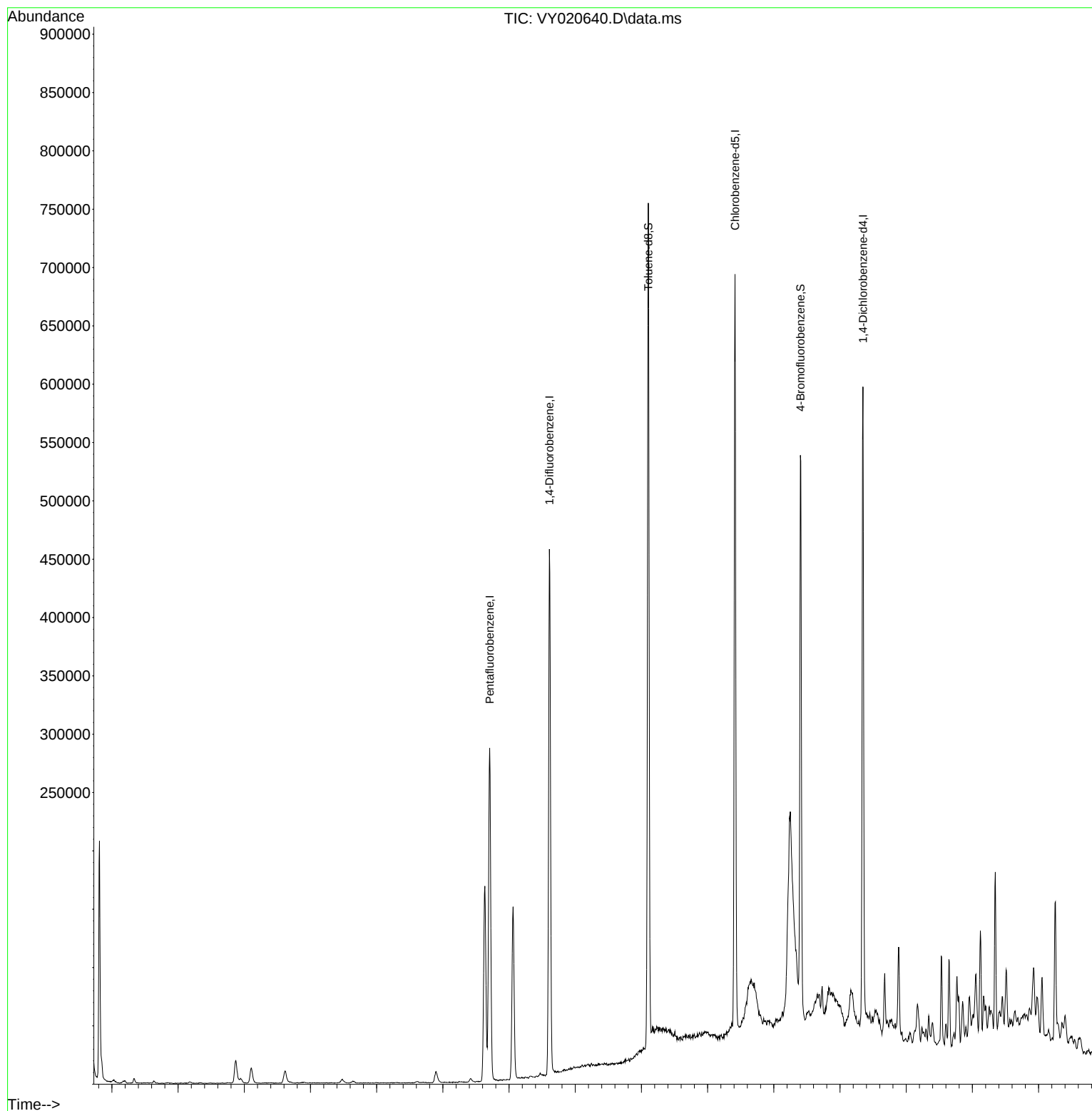
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	223514	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	392391	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	337704	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	138439	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	119025	48.622	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.240%
35) Dibromofluoromethane	7.634	113	120658	43.630	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	87.260%
50) Toluene-d8	10.103	98	476055	49.181	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.360%
62) 4-Bromofluorobenzene	12.401	95	151545	40.024	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	80.040%
Target Compounds						
16) Acetone	3.872	43	35108	67.492	ug/l	96
17) Carbon Disulfide	4.110	76	26537	2.910	ug/l	97
25) 2-Butanone	6.896	43	16117	17.716	ug/l	96

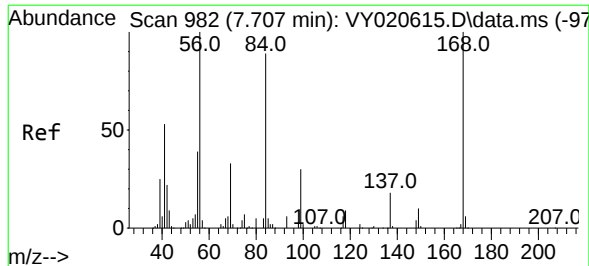
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Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

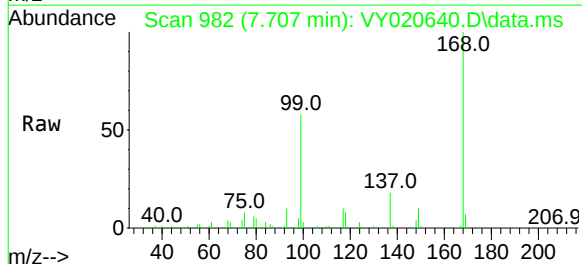
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Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



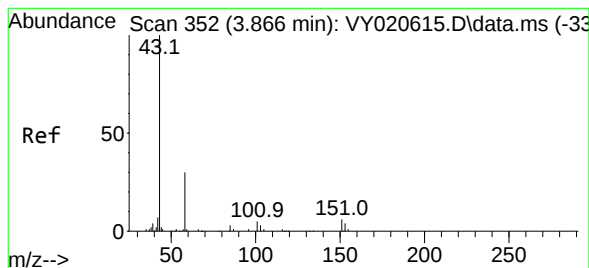
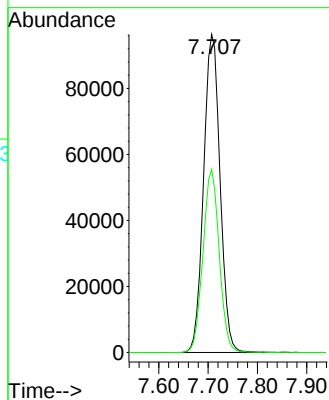
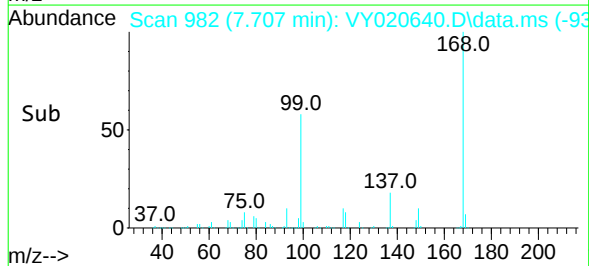


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

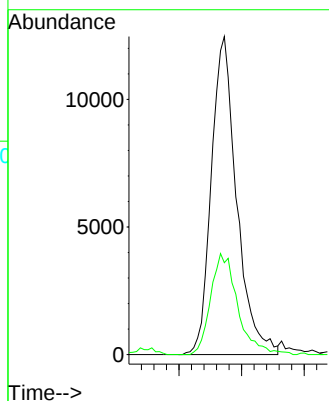
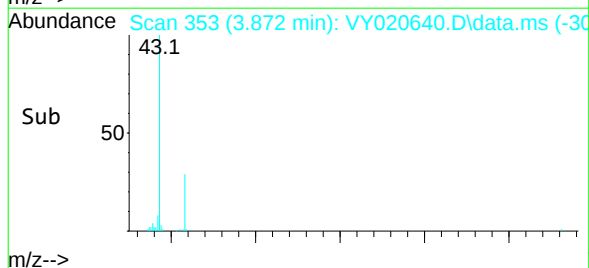
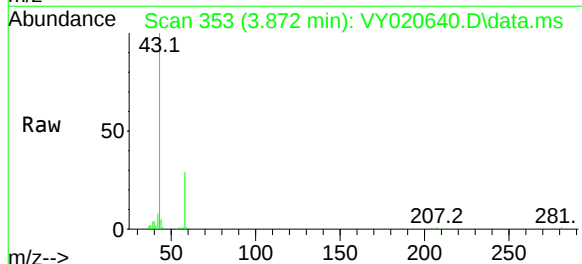


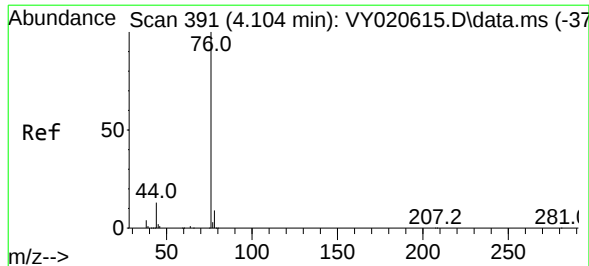
Tgt Ion:168 Resp: 223514
Ion Ratio Lower Upper
168 100
99 57.5 47.0 70.6



#16
Acetone
Concen: 67.492 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Tgt Ion: 43 Resp: 35108
Ion Ratio Lower Upper
43 100
58 28.9 25.0 37.6





#17

Carbon Disulfide

Concen: 2.910 ug/l

RT: 4.110 min Scan# 391

Delta R.T. 0.006 min

Lab File: VY020640.D

Acq: 18 Dec 2024 16:51

Instrument :

MSVOA_Y

ClientSampleId :

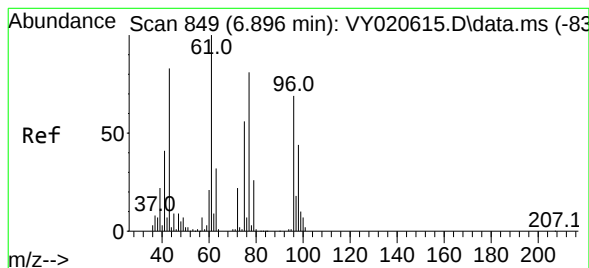
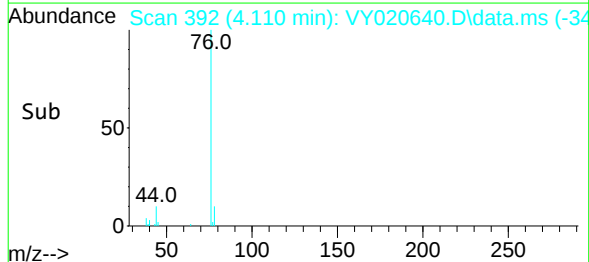
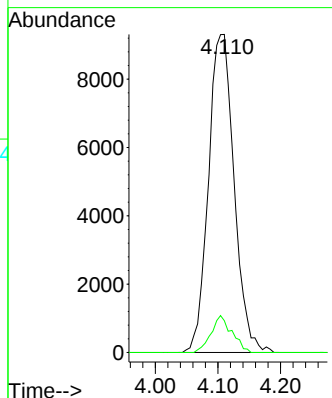
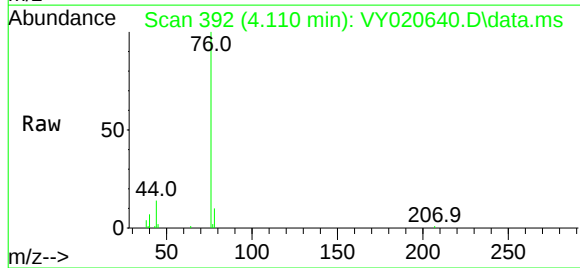
SB-01

Tgt Ion: 76 Resp: 26537

Ion Ratio Lower Upper

76 100

78 10.0 7.2 10.8



#25

2-Butanone

Concen: 17.716 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.000 min

Lab File: VY020640.D

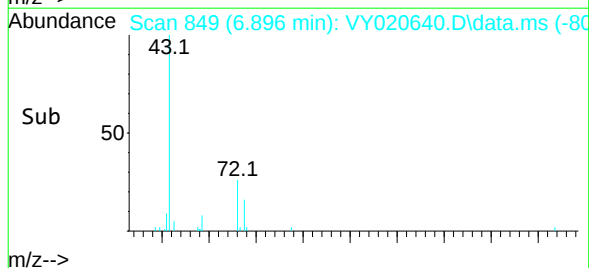
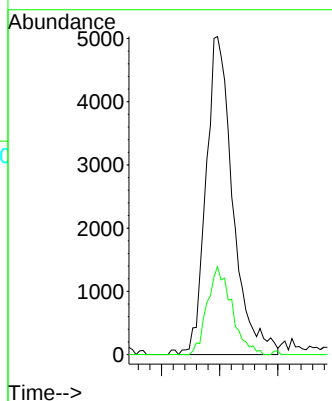
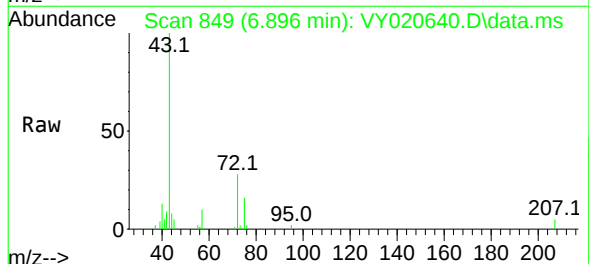
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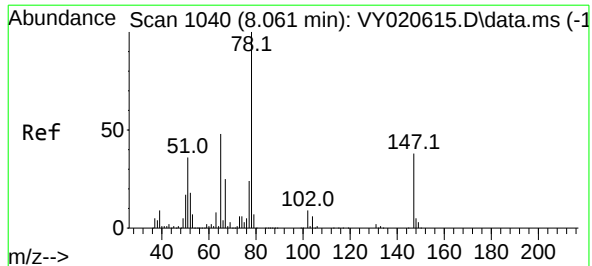
Tgt Ion: 43 Resp: 16117

Ion Ratio Lower Upper

43 100

72 27.6 20.6 31.0

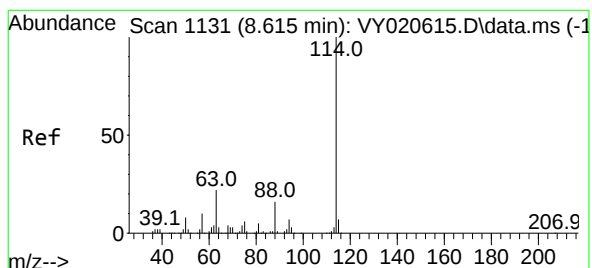
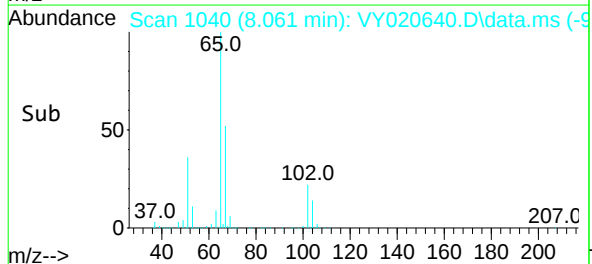
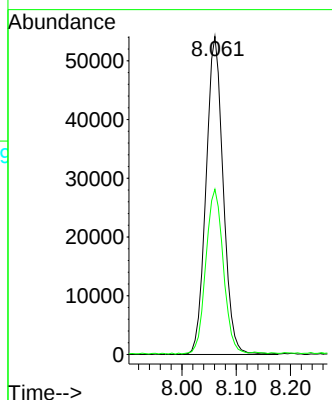
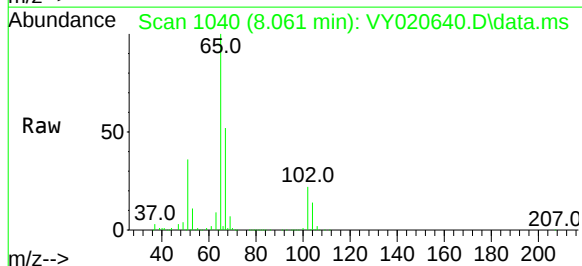




#33
1,2-Dichloroethane-d4
Concen: 48.622 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

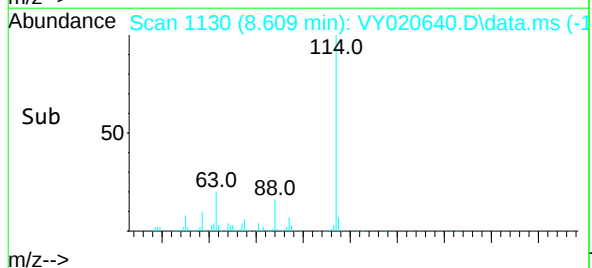
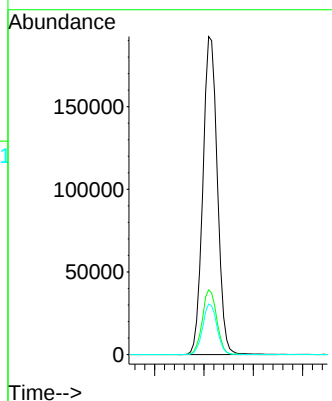
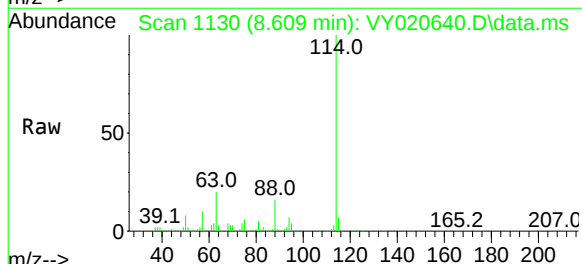
Instrument :
MSVOA_Y
ClientSampleId :
SB-01

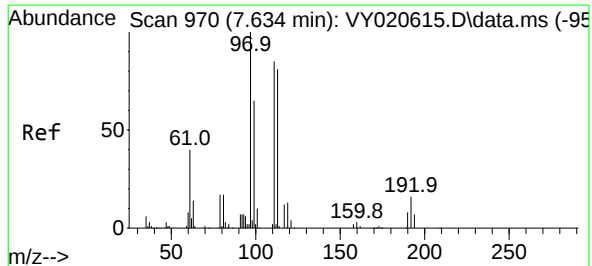
Tgt Ion: 65 Resp: 119025
Ion Ratio Lower Upper
65 100
67 52.9 0.0 108.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Tgt Ion: 114 Resp: 392391
Ion Ratio Lower Upper
114 100
63 20.3 0.0 44.0
88 15.9 0.0 32.8





#35

Dibromofluoromethane

Concen: 43.630 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY020640.D

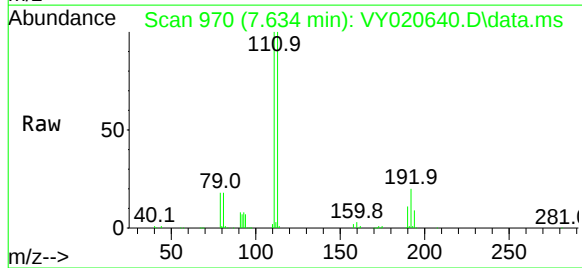
Acq: 18 Dec 2024 16:51

Instrument :

MSVOA_Y

ClientSampleId :

SB-01



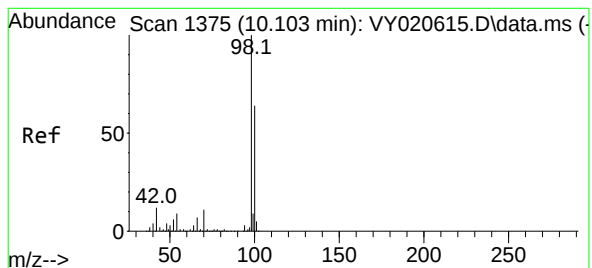
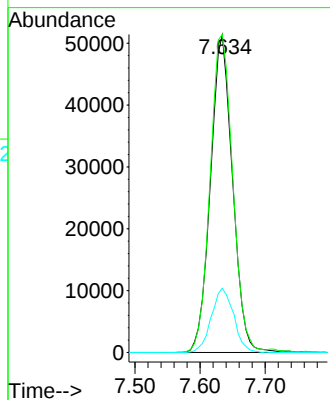
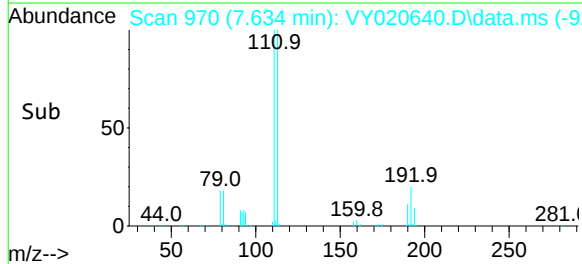
Tgt Ion: 113 Resp: 120658

Ion Ratio Lower Upper

113 100

111 103.0 82.9 124.3

192 20.5 15.7 23.5



#50

Toluene-d8

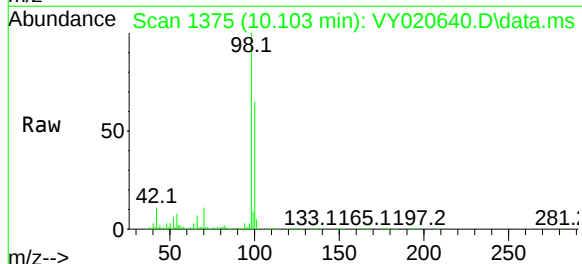
Concen: 49.181 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY020640.D

Acq: 18 Dec 2024 16:51

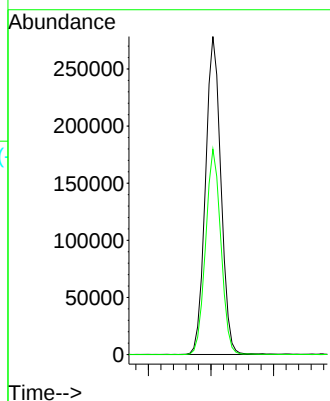
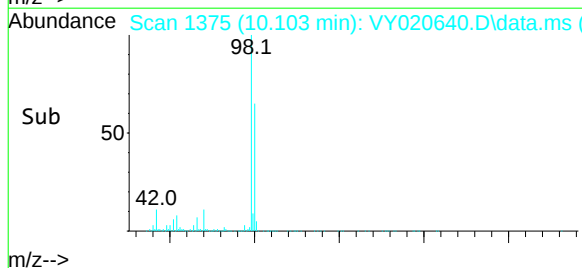


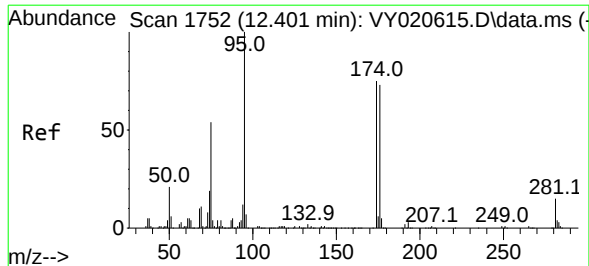
Tgt Ion: 98 Resp: 476055

Ion Ratio Lower Upper

98 100

100 63.9 52.1 78.1





#62

4-Bromofluorobenzene

Concen: 40.024 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY020640.D

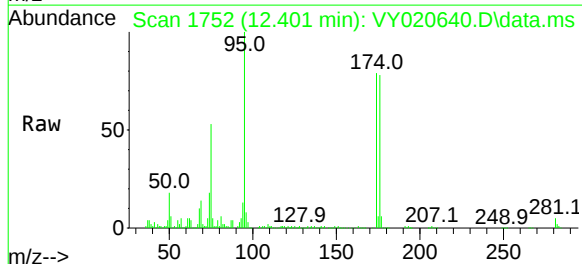
Acq: 18 Dec 2024 16:51

Instrument :

MSVOA_Y

ClientSampleId :

SB-01



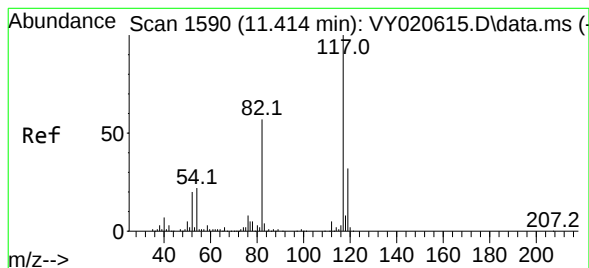
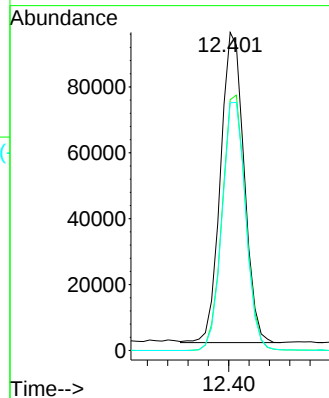
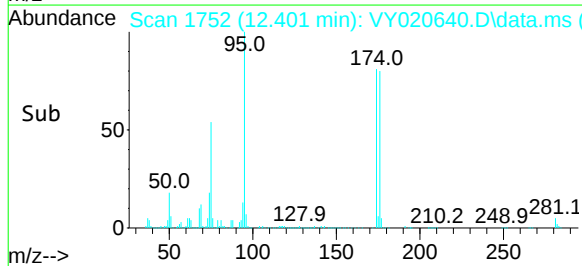
Tgt Ion: 95 Resp: 151545

Ion Ratio Lower Upper

95 100

174 82.1 0.0 161.8

176 80.1 0.0 156.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY020640.D

Acq: 18 Dec 2024 16:51

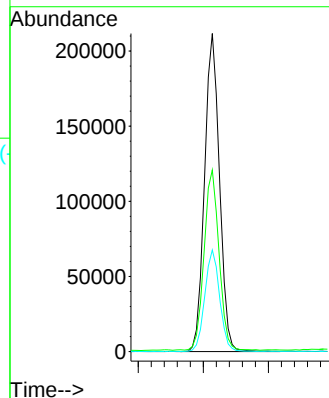
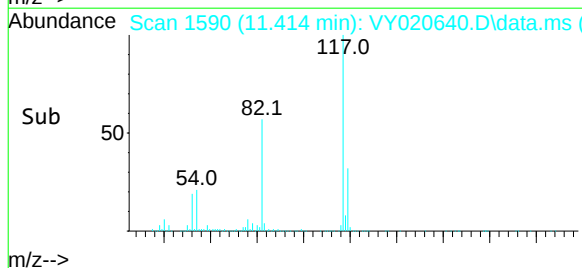
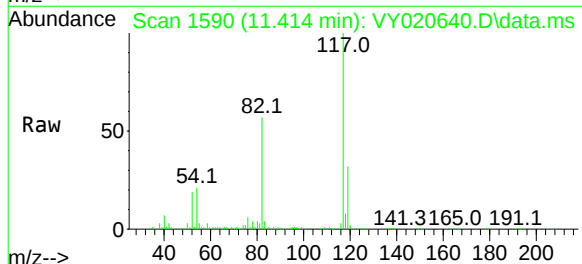
Tgt Ion: 117 Resp: 337704

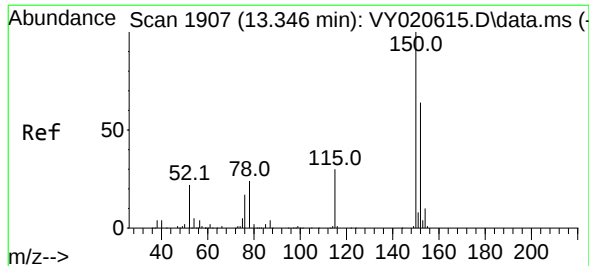
Ion Ratio Lower Upper

117 100

82 56.6 45.8 68.6

119 31.9 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 19

Delta R.T. 0.000 min

Lab File: VY020640.D

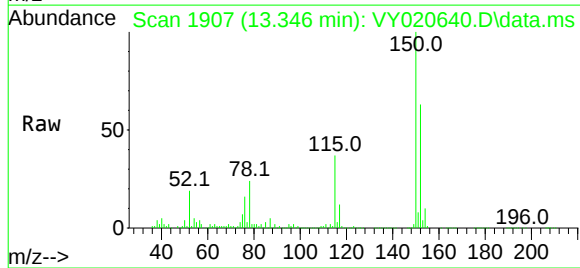
Acq: 18 Dec 2024 16:51

Instrument :

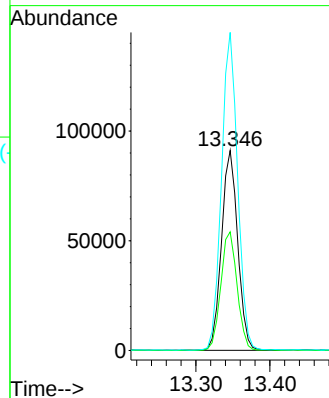
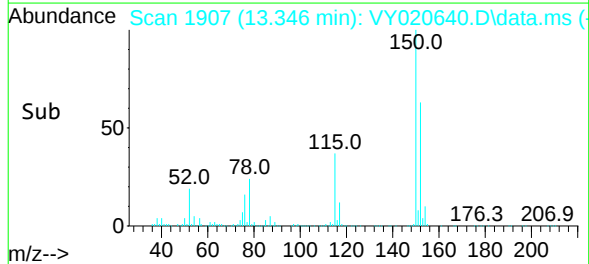
MSVOA_Y

ClientSampleId :

SB-01



Tgt Ion:	152	Resp:	138439
Ion	Ratio	Lower	Upper
152	100		
115	59.9	30.2	90.6
150	158.0	0.0	355.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M

Title : SW846 8260

Signal : TIC: VY020640.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.812	10	15	33	rVB2	206063	317384	25.23%	3.343%
2	3.872	340	353	362	rBV2	19315	56615	4.50%	0.596%
3	4.104	381	391	405	rBV	12924	36387	2.89%	0.383%
4	4.616	465	475	487	rBV3	10526	34159	2.72%	0.360%
5	6.896	840	849	862	rBV2	9718	30541	2.43%	0.322%
6	7.634	961	970	976	rBV	167295	406450	32.32%	4.282%
7	7.707	976	982	997	rVB	285084	654529	52.04%	6.895%
8	8.061	1031	1040	1051	rBV	148407	335156	26.65%	3.531%
9	8.609	1123	1130	1143	rBV	450495	910242	72.37%	9.589%
10	10.103	1368	1375	1382	rBV	723615	1257732	100.00%	13.249%
11	11.414	1584	1590	1600	rVB	645467	1036391	82.40%	10.918%
12	12.249	1715	1727	1740	rBV2	159714	812599	64.61%	8.560%
13	12.401	1747	1752	1763	rVB2	484079	838079	66.63%	8.829%
14	13.346	1901	1907	1915	rBV	542633	851326	67.69%	8.968%
15	13.676	1957	1961	1965	rBV	45194	61063	4.86%	0.643%
16	13.889	1991	1996	2002	rVB	74994	125622	9.99%	1.323%
17	14.169	2039	2042	2050	rVB8	31675	71319	5.67%	0.751%
18	14.236	2050	2053	2055	rBV3	12247	15959	1.27%	0.168%
19	14.340	2067	2070	2075	rBV3	20812	31954	2.54%	0.337%
20	14.395	2076	2079	2086	rVB6	17003	32058	2.55%	0.338%
21	14.529	2097	2101	2109	rVB2	76056	112534	8.95%	1.185%
22	14.602	2109	2113	2116	rBV4	17562	29415	2.34%	0.310%
23	14.645	2116	2120	2126	rVB2	74489	120424	9.57%	1.269%
24	14.724	2128	2133	2135	rBV6	10998	19677	1.56%	0.207%
25	14.767	2135	2140	2143	rBV3	53238	91274	7.26%	0.962%
26	14.852	2148	2154	2159	rBV5	34884	69628	5.54%	0.733%
27	14.956	2166	2171	2175	rBV5	33518	67801	5.39%	0.714%
28	15.053	2182	2187	2193	rVB8	48521	100899	8.02%	1.063%
29	15.120	2193	2198	2203	rBV2	85609	135659	10.79%	1.429%
30	15.169	2203	2206	2209	rBV3	29169	45563	3.62%	0.480%
31	15.255	2216	2220	2222	rBV4	17660	27666	2.20%	0.291%
32	15.346	2230	2235	2240	rBV	134404	186768	14.85%	1.967%
33	15.450	2250	2252	2257	rVB4	23343	31988	2.54%	0.337%
34	15.511	2257	2262	2268	rVB3	48782	89461	7.11%	0.942%
35	15.925	2324	2330	2335	rBV4	41361	91126	7.25%	0.960%
36	15.974	2336	2338	2346	rVB5	30478	63177	5.02%	0.666%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

A
B
C
D
E
F
G
H
I
J

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\82Y121724S.M
Title : SW846 8260

37	16.053	2346	2351	2357	rVB4	49645	88765	7.06%	0.935%
38	16.254	2378	2384	2388	rBV	118156	205341	16.33%	2.163%

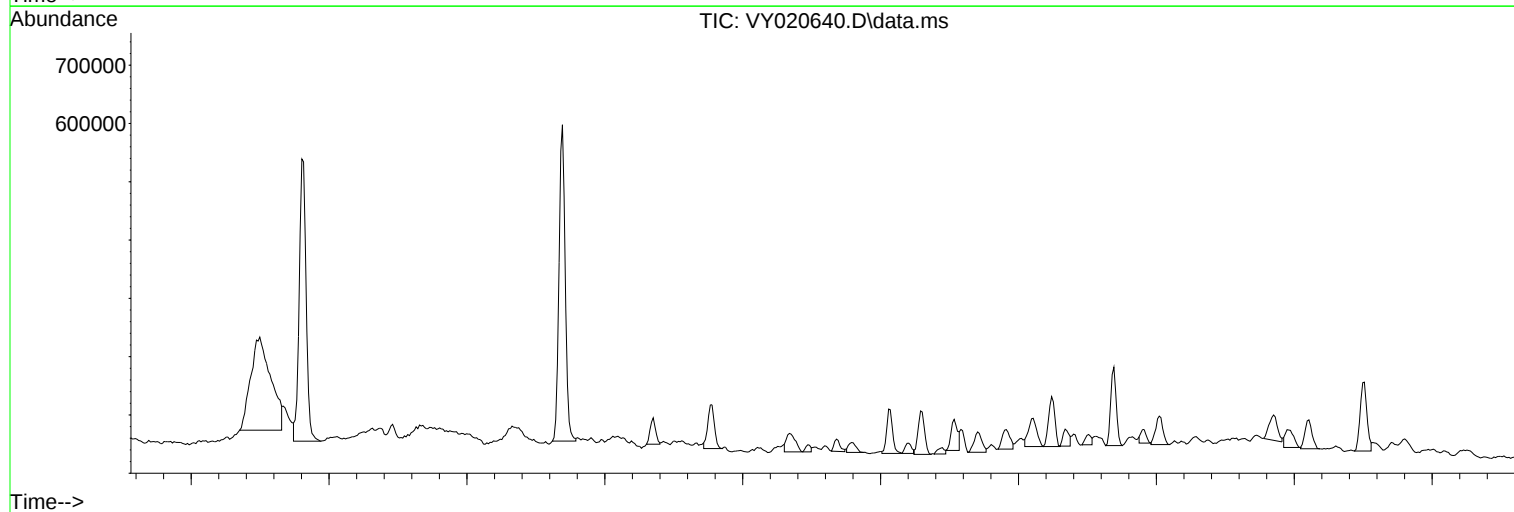
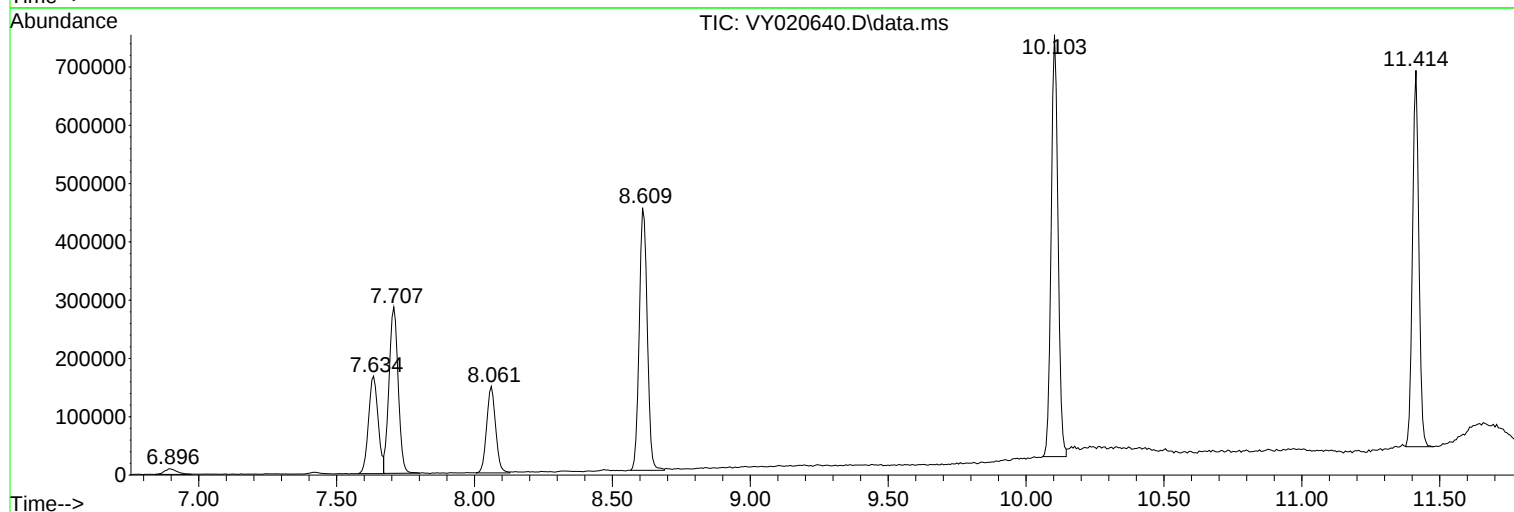
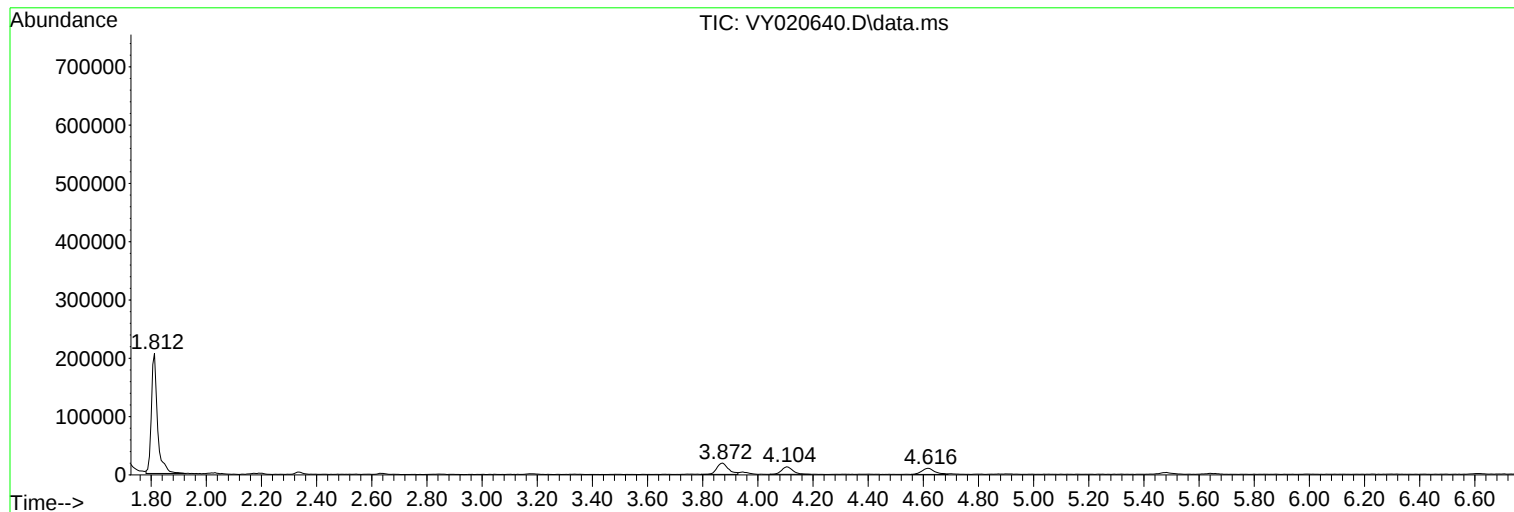
Sum of corrected areas: 9492731

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

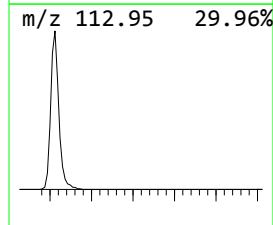
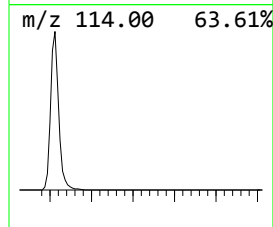
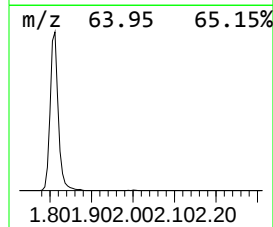
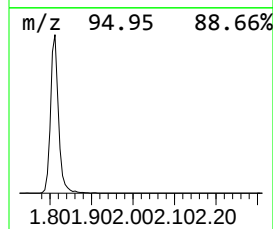
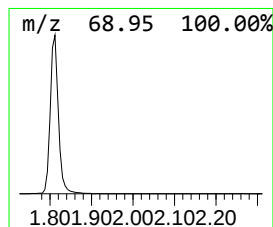
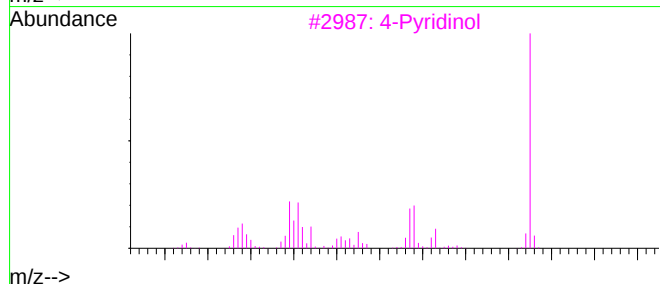
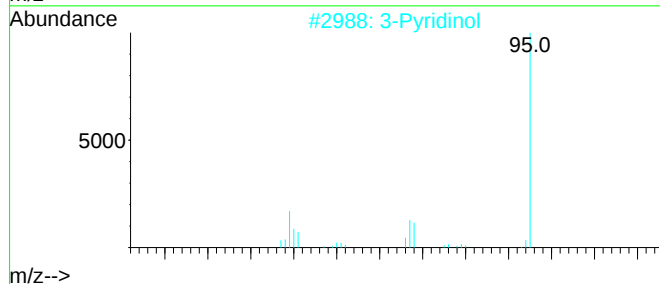
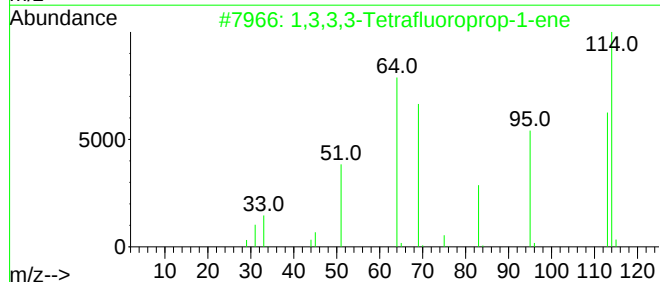
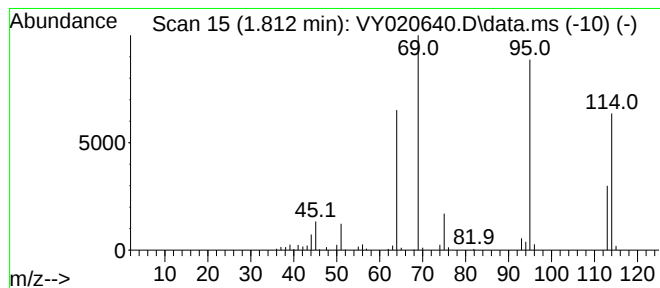
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

Peak Number 1 unknown1.812 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.812	24.25 ug/l	317384	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1,3,3,3-Tetrafluoroprop-1-ene	114	C3H2F4	1000389-53-0	28
2			3-Pyridinol	95	C5H5NO	000109-00-2	9
3			4-Pyridinol	95	C5H5NO	000626-64-2	9
4			Butenamide, N,N-dimethyl-	113	C6H11NO	023135-18-4	9
5			Ethyl diazoacetate	114	C4H6N2O2	000623-73-4	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

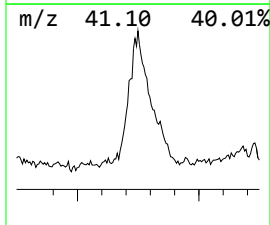
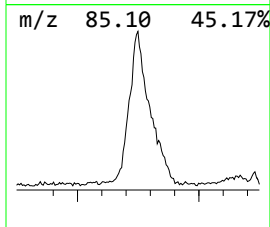
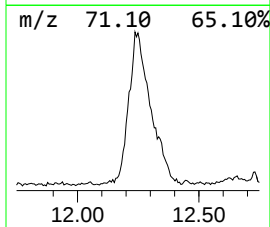
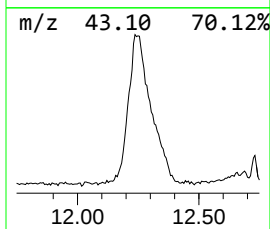
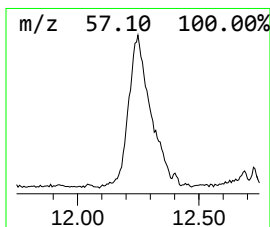
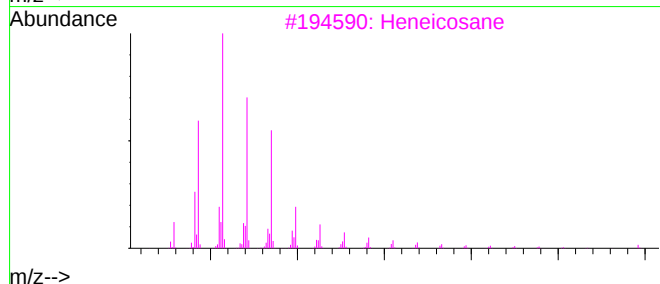
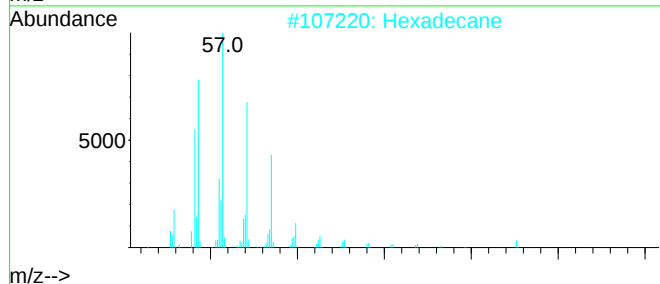
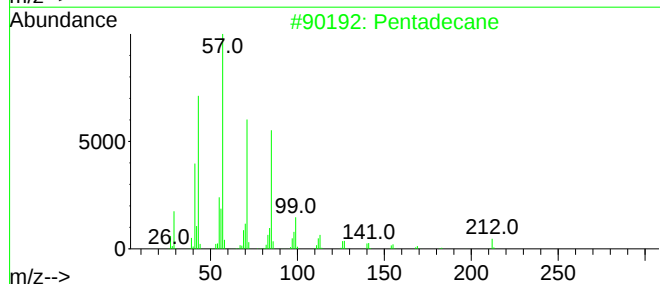
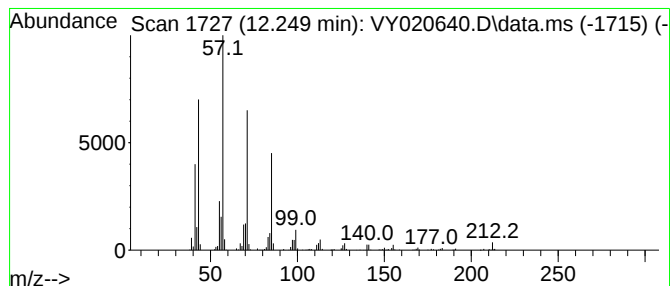
Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

Peak Number 2 Pentadecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.249	39.20 ug/l	812599	Chlorobenzene-d5		11.414	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Pentadecane		212	C15H32	000629-62-9	96
2	Hexadecane		226	C16H34	000544-76-3	91
3	Heneicosane		296	C21H44	000629-94-7	90
4	Nonadecane		268	C19H40	000629-92-5	87
5	Tetradecane		198	C14H30	000629-59-4	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

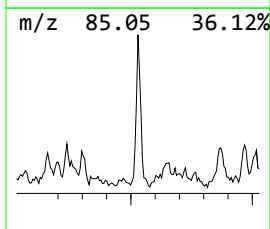
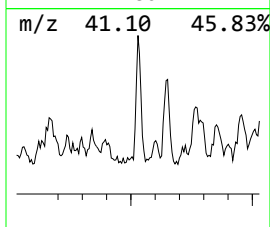
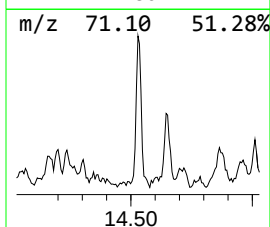
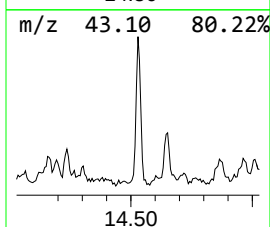
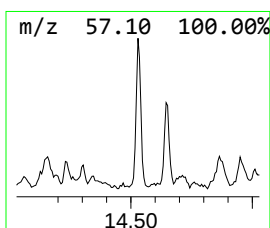
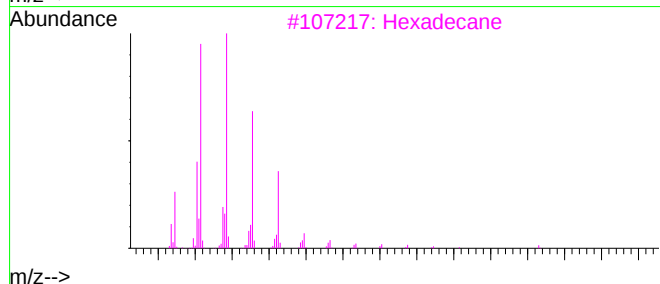
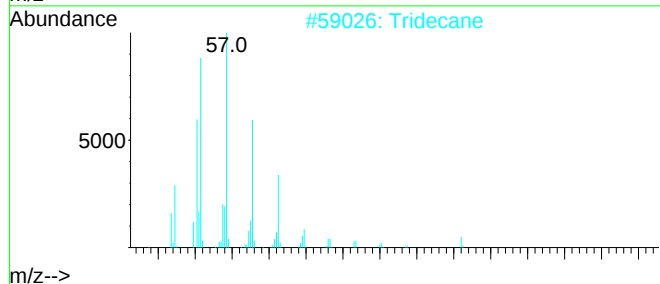
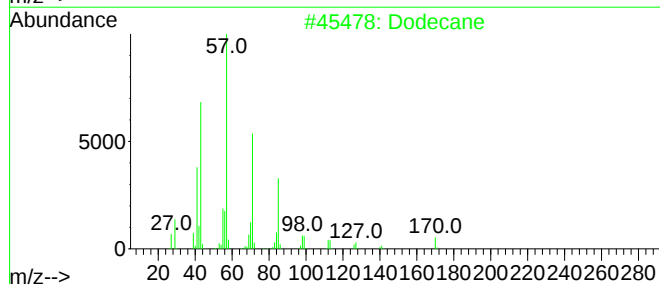
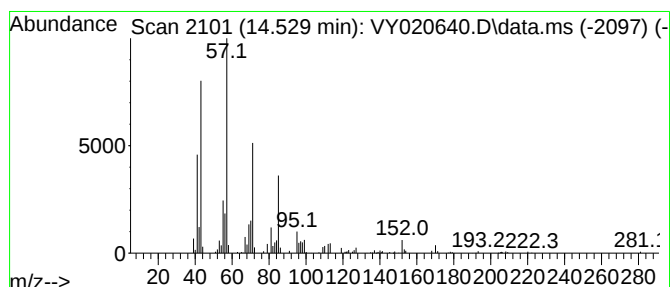
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

Peak Number 4 Dodecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	6.61 ug/l	112534	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	93
2	Tridecane	184	C13H28	000629-50-5	72
3	Hexadecane	226	C16H34	000544-76-3	72
4	Tetradecane	198	C14H30	000629-59-4	72
5	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

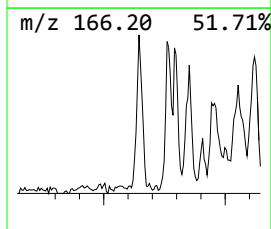
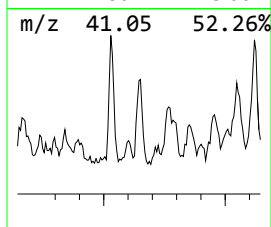
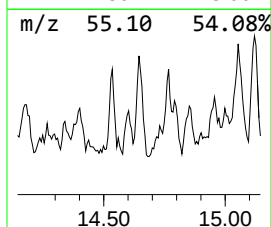
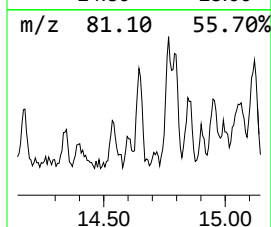
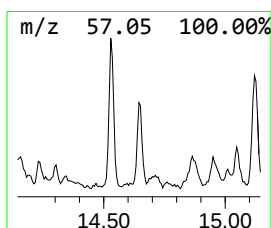
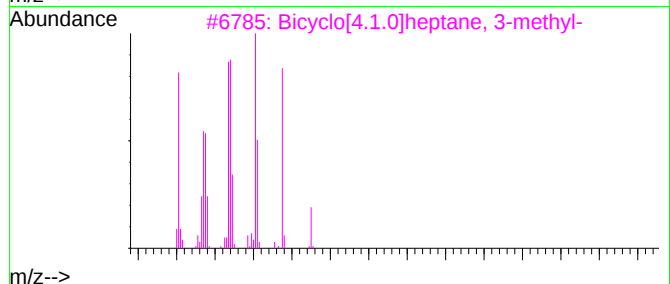
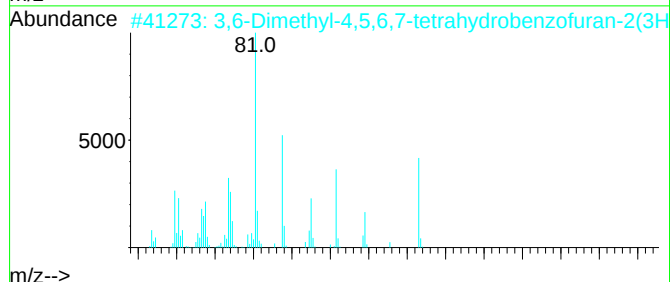
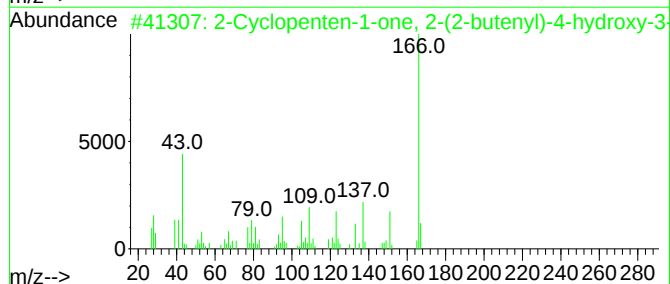
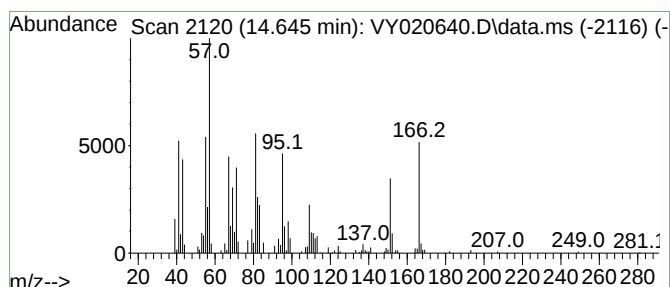
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Quant Title : SW846 8260

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

Peak Number 5 unknown14.645 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.645	7.07 ug/l	120424	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyclopenten-1-one, 2-(2-butenyl)-	166	C10H14O2	017190-74-8	38
2	3,6-Dimethyl-4,5,6,7-tetrahydrobenzofuran-2(3H)-one	166	C10H14O2	016642-41-4	27
3	Bicyclo[4.1.0]heptane, 3-methyl-	110	C8H14	041977-47-3	25
4	2-(1-Hydroxycyclohexyl)-furan	166	C10H14O2	036169-67-2	22
5	8-Hexadecyne	222	C16H30	019781-86-3	22



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

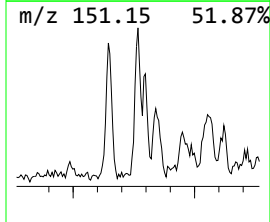
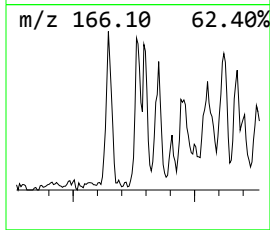
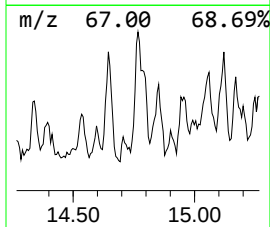
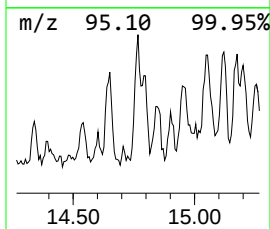
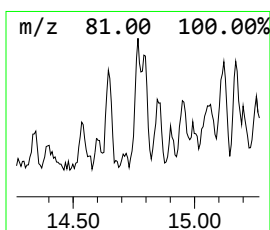
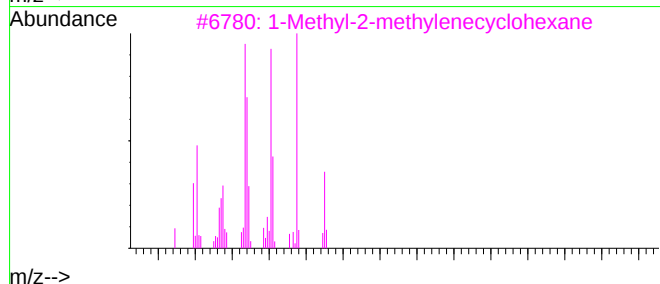
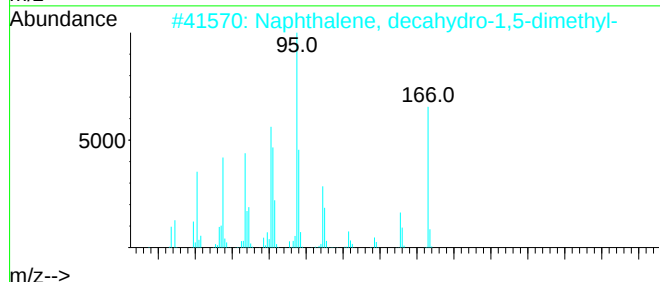
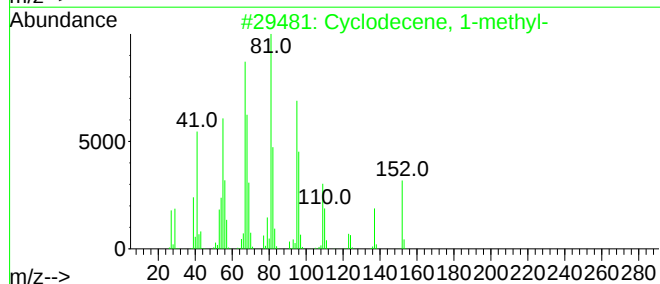
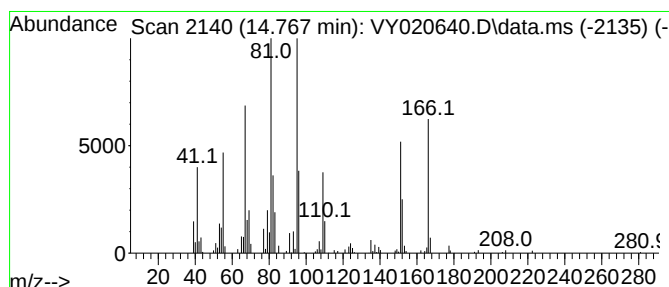
Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

Peak Number 6 Cyclodecene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.767	5.36 ug/l	91274	1,4-Dichlorobenzene-d4	13.346	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclodecene, 1-methyl-	152	C11H20	066633-38-3	58
2	Naphthalene, decahydro-1,5-dimet...	166	C12H22	066552-62-3	58
3	1-Methyl-2-methylenecyclohexane	110	C8H14	002808-75-5	55
4	Cyclohexene,3-hexyl-	166	C12H22	015232-78-7	55
5	Naphthalene, decahydro-2,6-dimet...	166	C12H22	001618-22-0	52



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

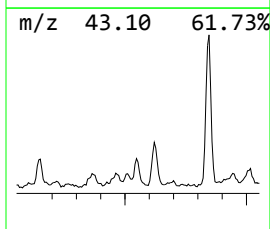
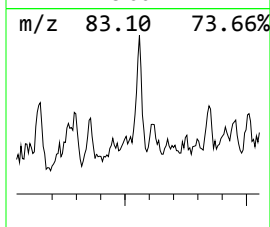
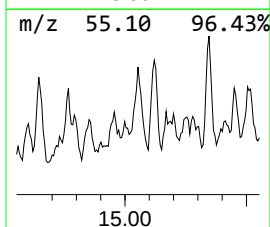
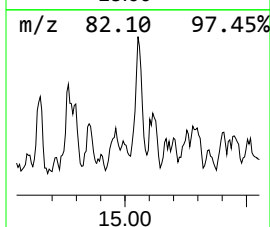
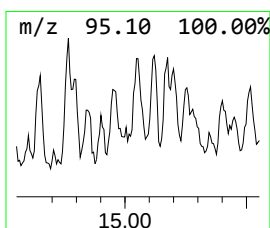
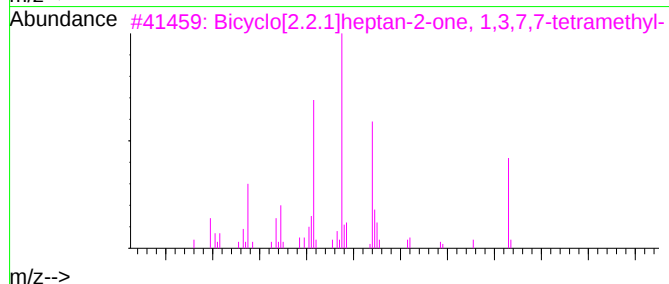
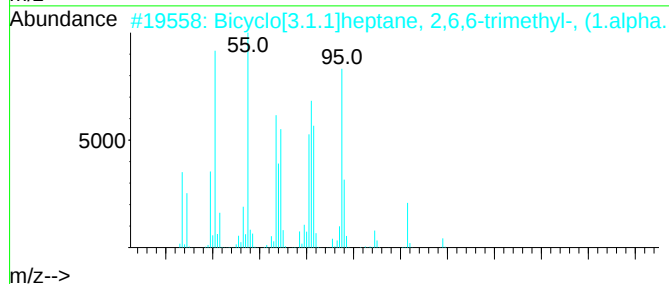
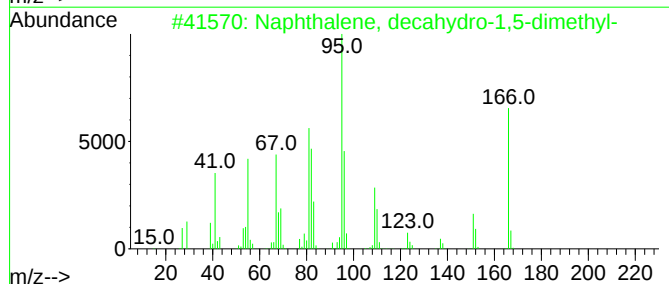
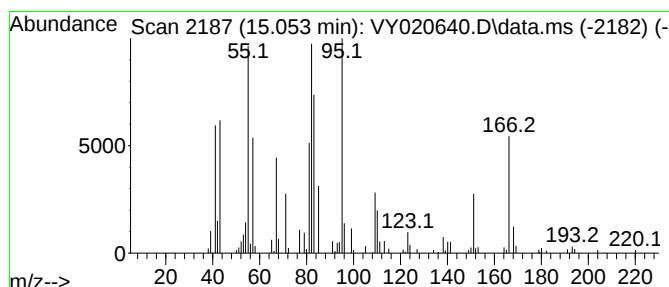
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Quant Title : SW846 8260

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

Peak Number 7 Naphthalene, decahydro-1,5-... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.053	5.93 ug/l	100899	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-1,5-dimet...	166	C12H22	066552-62-3	53
2	Bicyclo[3.1.1]heptane, 2,6,6-tri...	138	C10H18	006876-13-7	47
3	Bicyclo[2.2.1]heptan-2-one, 1,3,...	166	C11H18O	005811-48-3	43
4	Vinylcyclohexyl ether	126	C8H14O	002182-55-0	35
5	Naphthalene, decahydro-2,6-dimet...	166	C12H22	001618-22-0	30



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

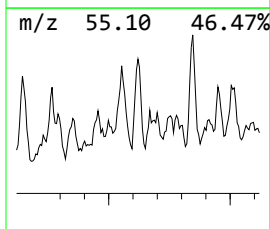
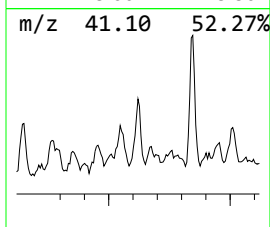
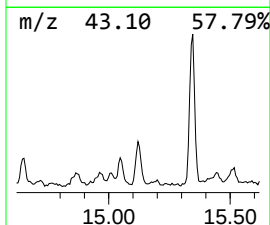
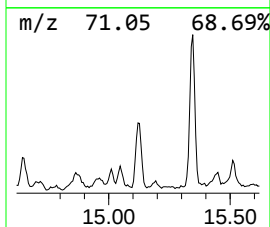
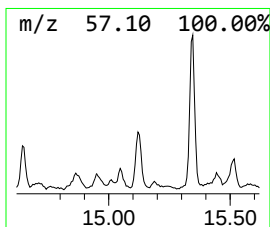
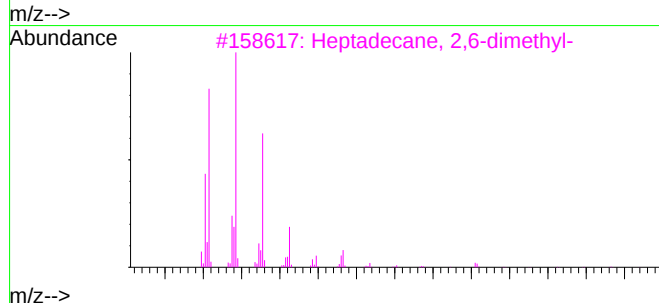
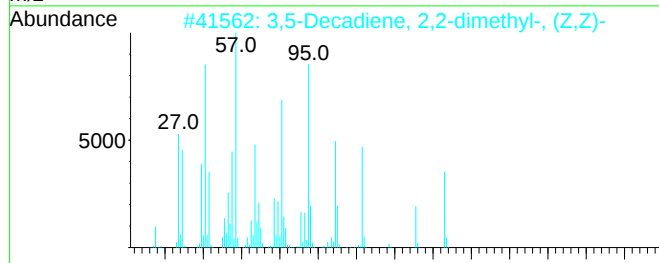
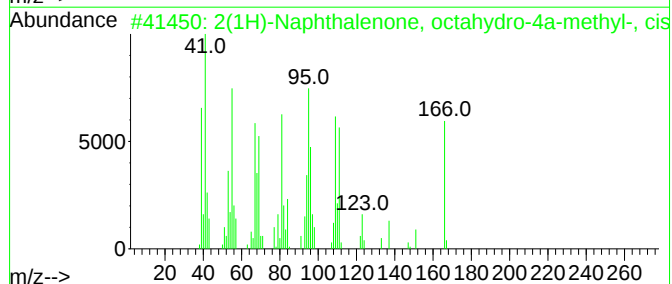
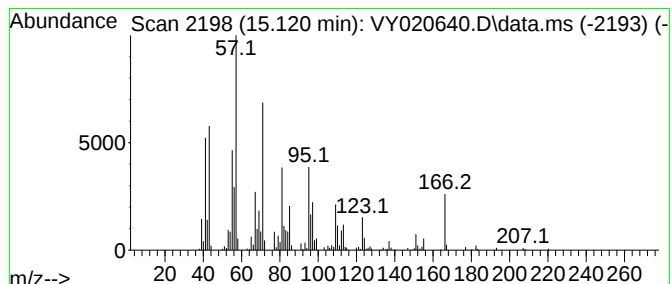
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Quant Title : SW846 8260

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

Peak Number 8 unknown15.120 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.120	7.97 ug/l	135659	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Naphthalenone, octahydro-4...	166	C11H18O	000938-06-7	38
2	3,5-Decadiene, 2,2-dimethyl-, (Z...	166	C12H22	055638-50-1	35
3	Heptadecane, 2,6-dimethyl-	268	C19H40	054105-67-8	27
4	Octadecane, 2,6-dimethyl-	282	C20H42	075163-97-2	27
5	Cyclohexanone, 2,2-dimethyl-5-(3...	182	C11H18O2	141033-65-0	27



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
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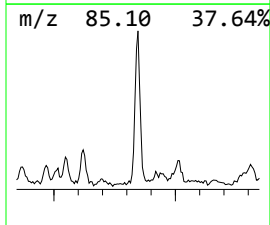
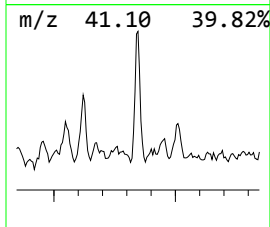
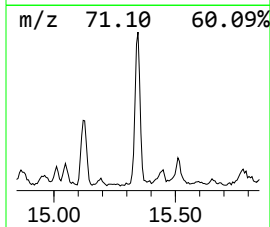
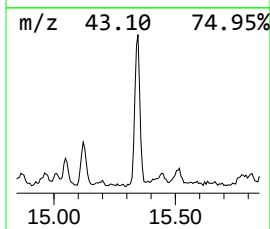
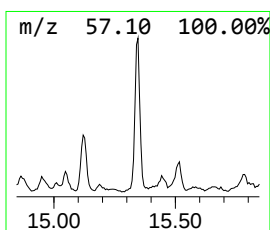
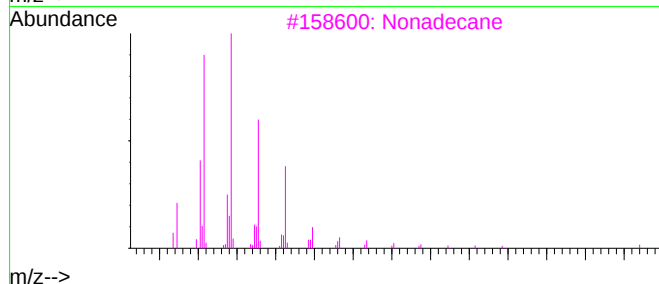
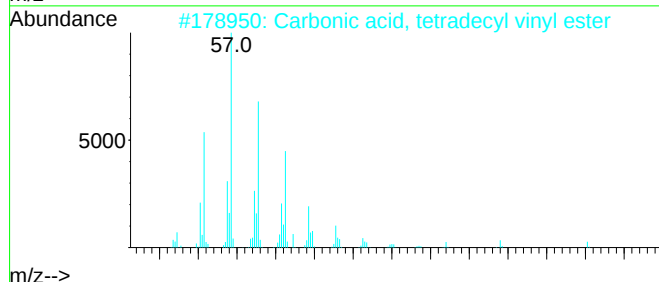
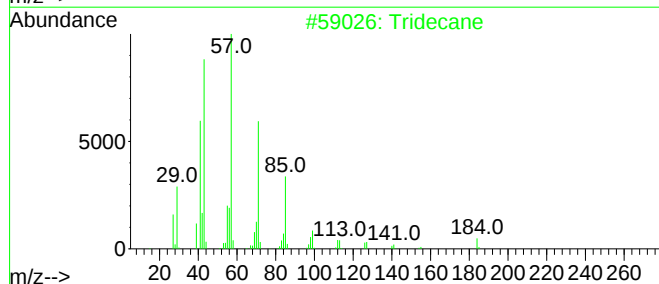
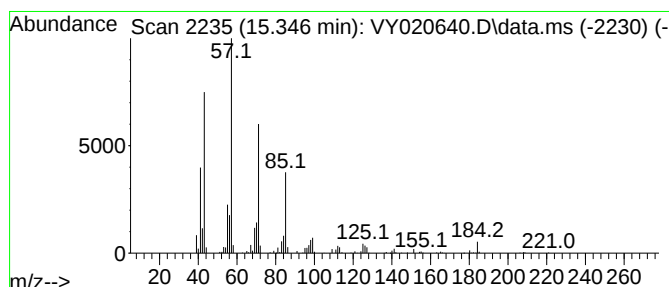
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Quant Title : SW846 8260

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

Peak Number 9 Tridecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	10.97 ug/l	186768	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	96
2	Carbonic acid, tetradecyl vinyl ...	284	C17H32O3	1000382-54-5	80
3	Nonadecane	268	C19H40	000629-92-5	80
4	Pentadecane	212	C15H32	000629-62-9	80
5	Hexadecane	226	C16H34	000544-76-3	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

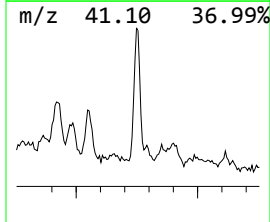
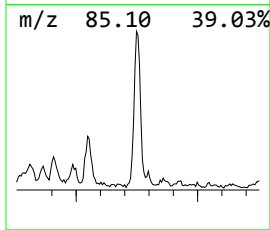
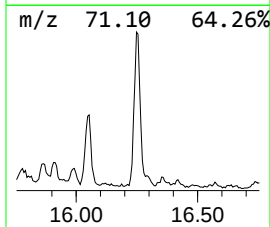
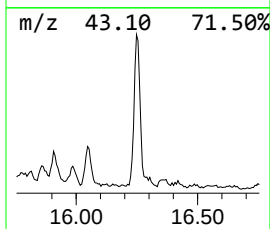
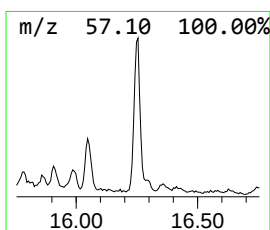
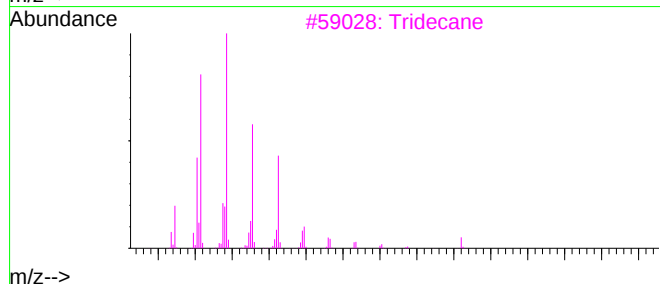
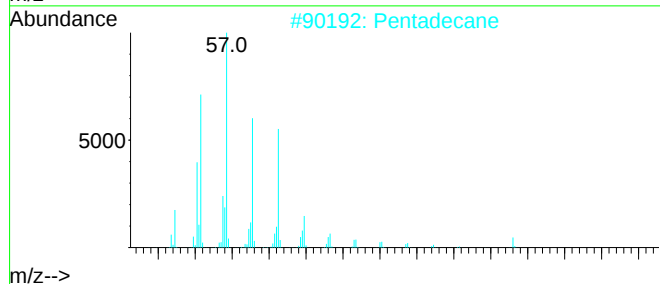
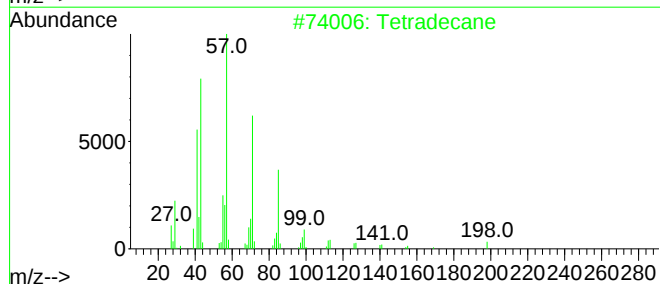
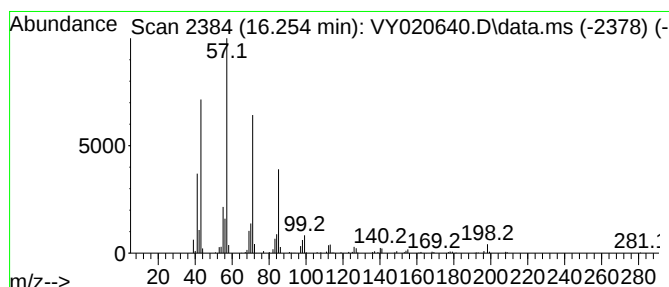
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Quant Title : SW846 8260

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

Peak Number 10 Tetradecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.254	12.06 ug/l	205341	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	98
2	Pentadecane	212	C15H32	000629-62-9	86
3	Tridecane	184	C13H28	000629-50-5	86
4	Hexadecane	226	C16H34	000544-76-3	86
5	Heptadecane, 8-methyl-	254	C18H38	013287-23-5	86



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
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Dodecane	14.529	6.6	ug/l	112534	4	13.346	851326	50.0
unknown14.645	14.645	7.1	ug/l	120424	4	13.346	851326	50.0
Cyclodecene, 1-...	14.767	5.4	ug/l	91274	4	13.346	851326	50.0
Naphthalene, de...	15.053	5.9	ug/l	100899	4	13.346	851326	50.0
unknown15.120	15.120	8.0	ug/l	135659	4	13.346	851326	50.0
Tridecane	15.346	11.0	ug/l	186768	4	13.346	851326	50.0
Tetradecane	16.254	12.1	ug/l	205341	4	13.346	851326	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

A
B
C
D
E
F
G
H
I
J

Quant Time: Dec 19 02:48:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

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

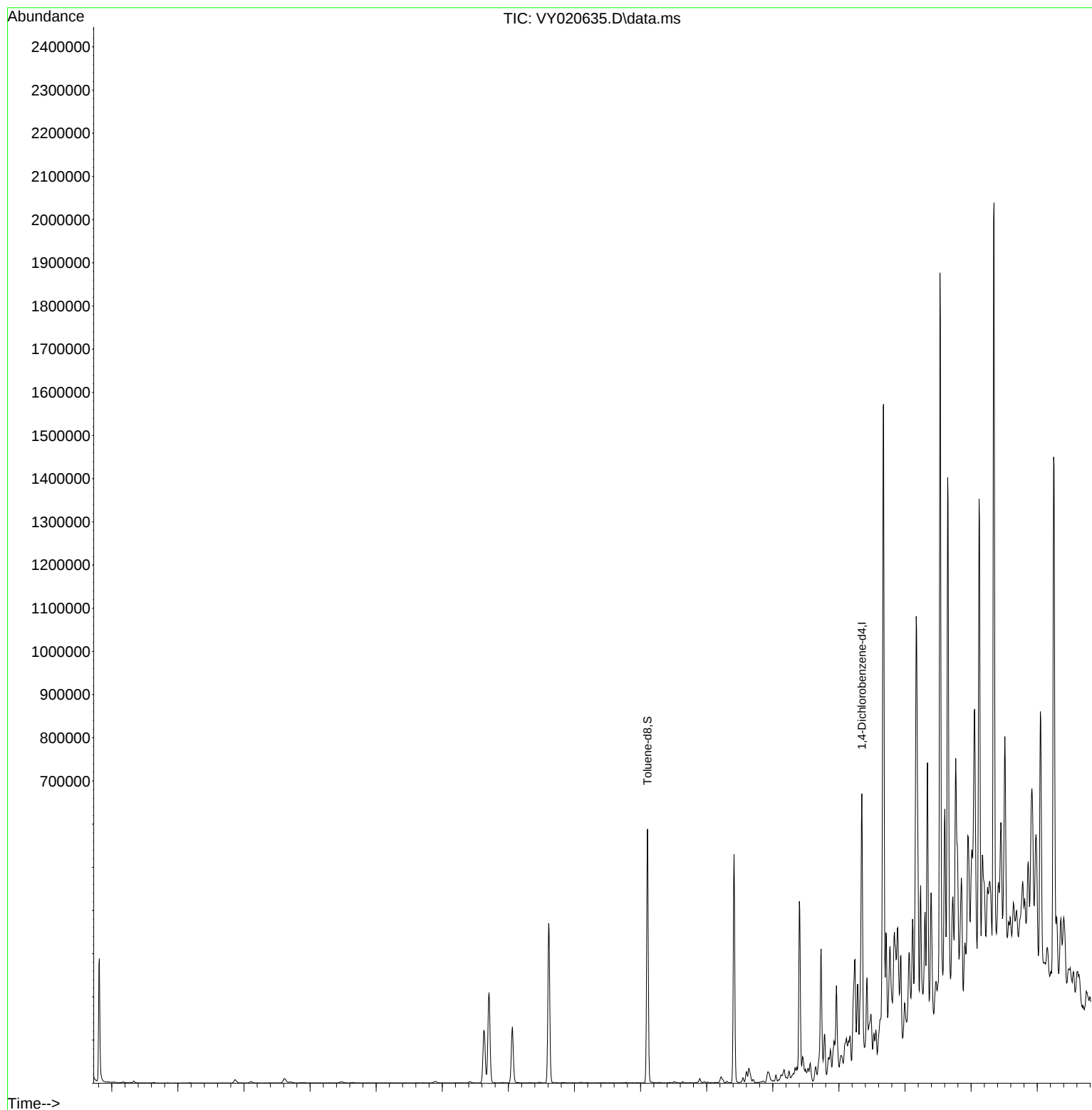
Internal Standards						
1) Pentafluorobenzene	7.707	168	157761	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	310451	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	269674	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	117196	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	101134	58.533	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	117.060%
35) Dibromofluoromethane	7.634	113	88259	40.338	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	80.680%
50) Toluene-d8	10.103	98	372749	48.673	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.340%
62) 4-Bromofluorobenzene	12.402	95	122857	41.011	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	82.020%
Target Compounds						
16) Acetone	3.867	43	13742	34.486	ug/l	96
25) 2-Butanone	6.896	43	5232	8.148	ug/l	96

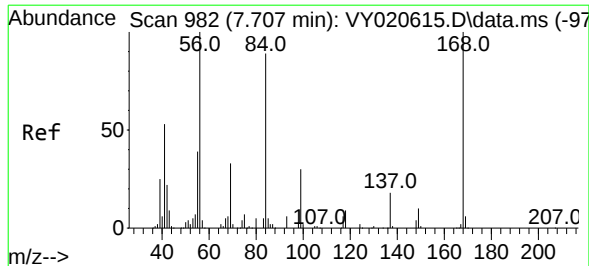
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

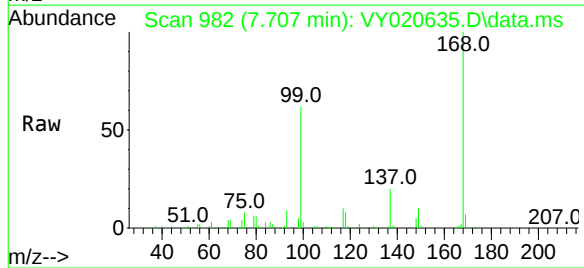
Quant Time: Dec 19 02:48:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



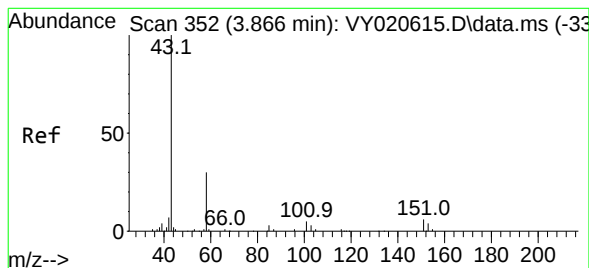
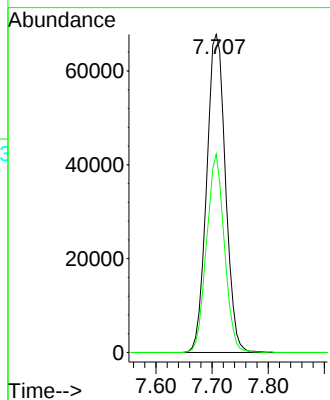
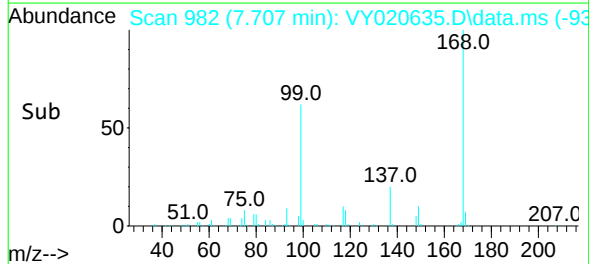


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

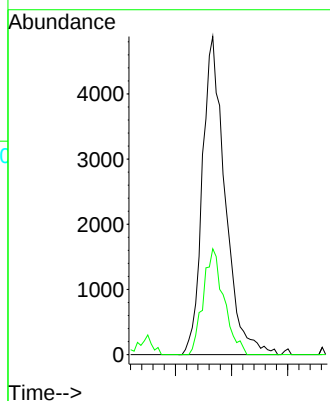
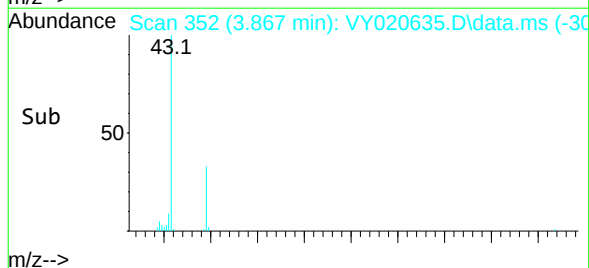
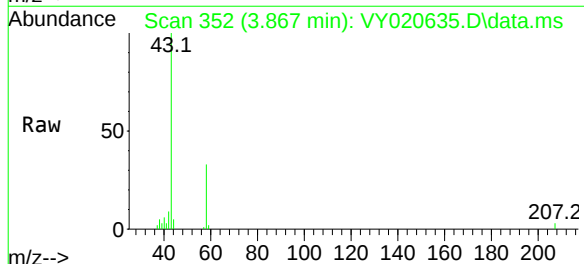


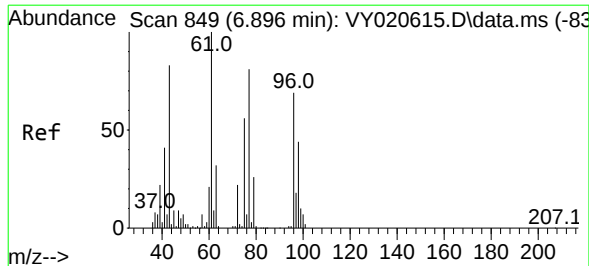
Tgt Ion: 168 Resp: 157761
Ion Ratio Lower Upper
168 100
99 62.3 47.0 70.6



#16
Acetone
Concen: 34.486 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.001 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Tgt Ion: 43 Resp: 13742
Ion Ratio Lower Upper
43 100
58 33.3 25.0 37.6





#25

2-Butanone

Concen: 8.148 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.000 min

Lab File: VY020635.D

Acq: 18 Dec 2024 14:54

Instrument :

MSVOA_Y

ClientSampleId :

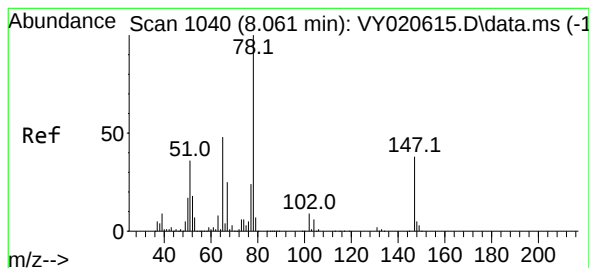
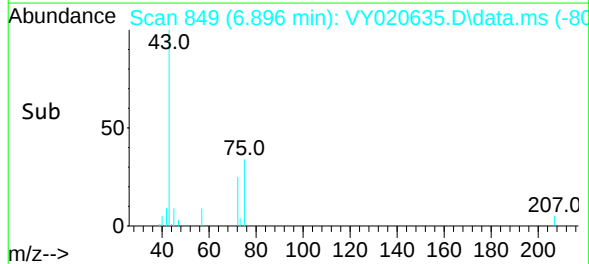
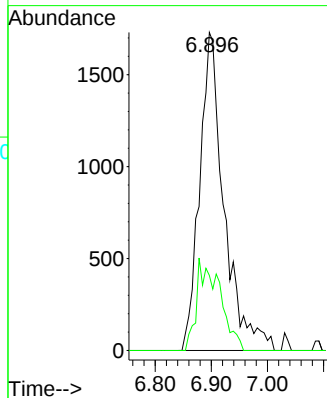
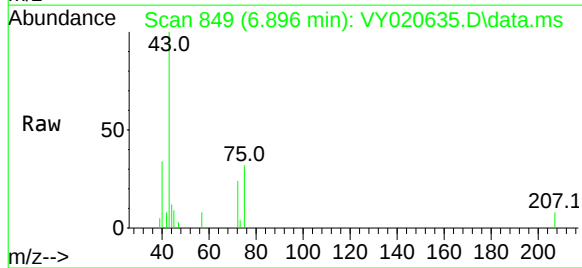
SB-02

Tgt Ion: 43 Resp: 5232

Ion Ratio Lower Upper

43 100

72 23.6 20.6 31.0



#33

1,2-Dichloroethane-d4

Concen: 58.533 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY020635.D

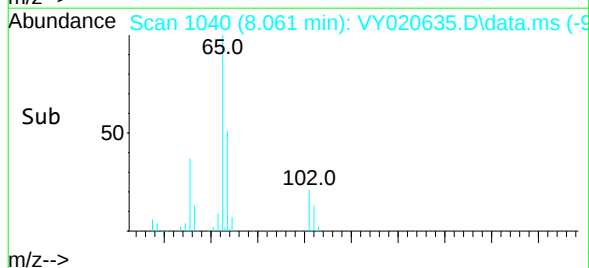
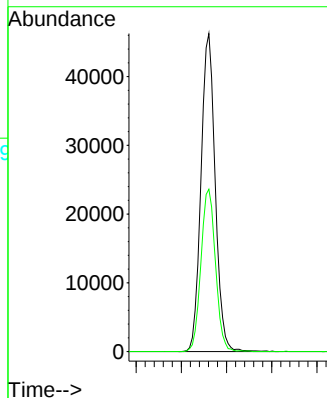
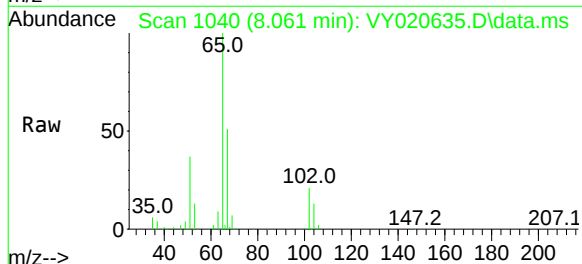
Acq: 18 Dec 2024 14:54

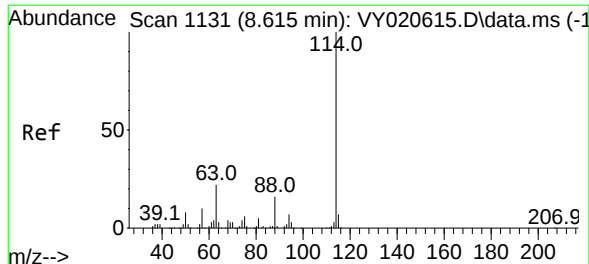
Tgt Ion: 65 Resp: 101134

Ion Ratio Lower Upper

65 100

67 52.2 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY020635.D

Acq: 18 Dec 2024 14:54

Instrument :

MSVOA_Y

ClientSampleId :

SB-02

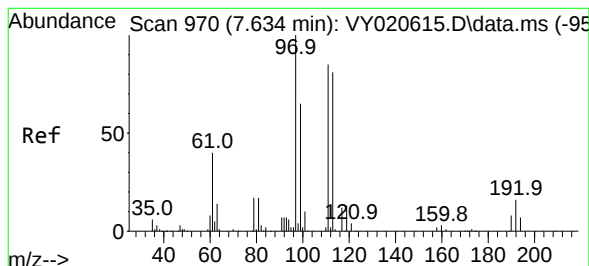
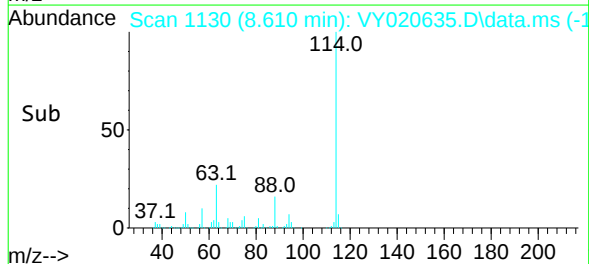
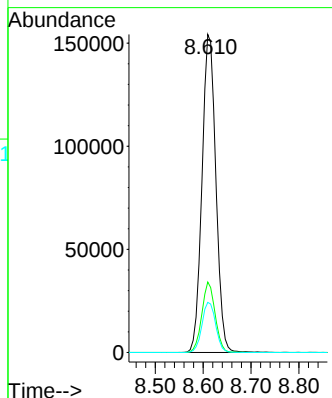
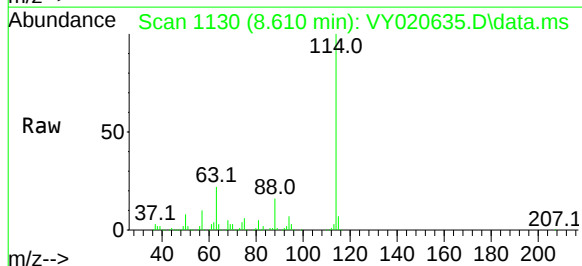
Tgt Ion:114 Resp: 310451

Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.0

88 15.7 0.0 32.8



#35

Dibromofluoromethane

Concen: 40.338 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY020635.D

Acq: 18 Dec 2024 14:54

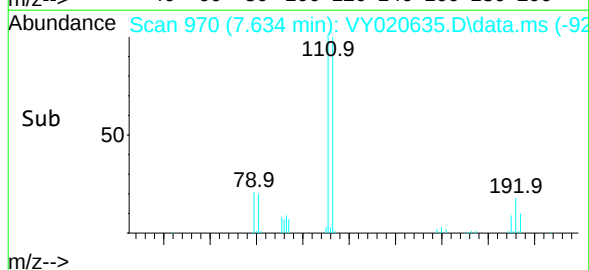
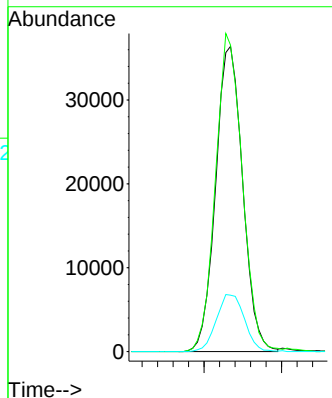
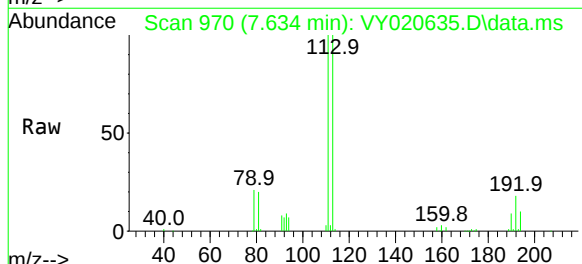
Tgt Ion:113 Resp: 88259

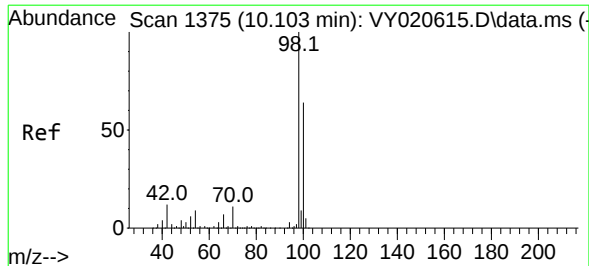
Ion Ratio Lower Upper

113 100

111 102.5 82.9 124.3

192 19.5 15.7 23.5





#50

Toluene-d8

Concen: 48.673 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY020635.D

Acq: 18 Dec 2024 14:54

Instrument :

MSVOA_Y

ClientSampleId :

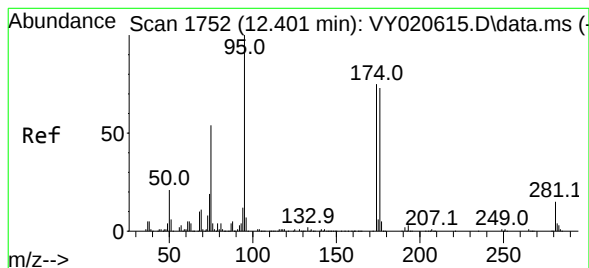
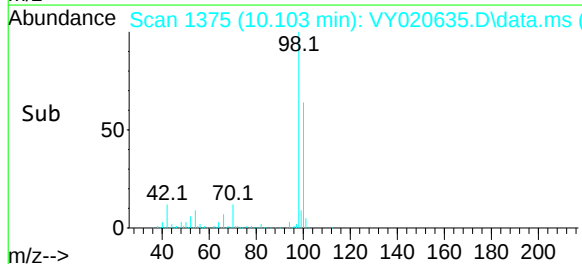
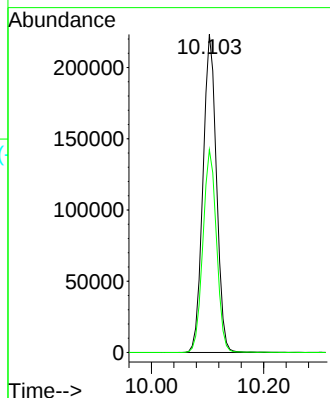
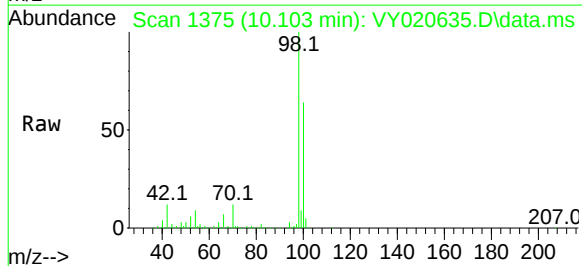
SB-02

Tgt Ion: 98 Resp: 372749

Ion Ratio Lower Upper

98 100

100 64.4 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 41.011 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY020635.D

Acq: 18 Dec 2024 14:54

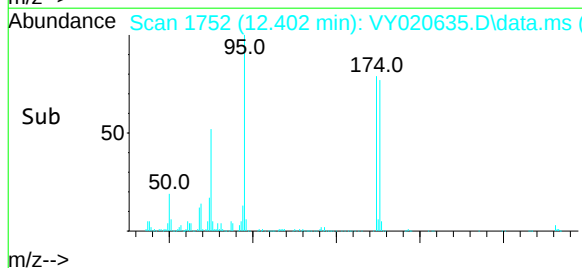
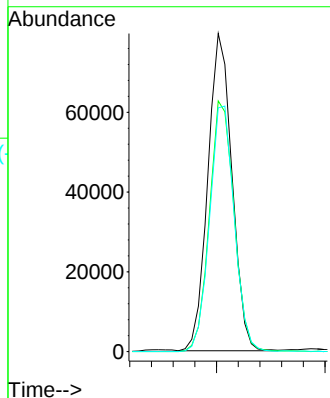
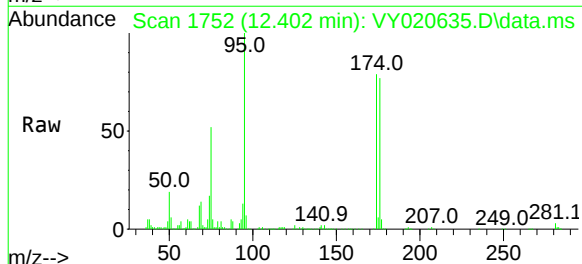
Tgt Ion: 95 Resp: 122857

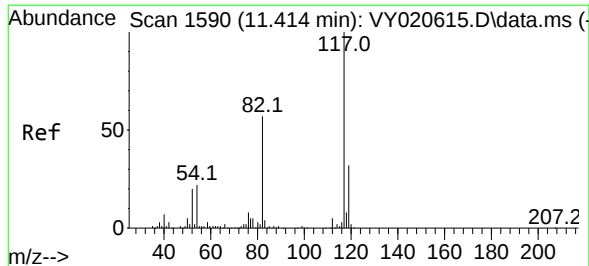
Ion Ratio Lower Upper

95 100

174 80.7 0.0 161.8

176 79.2 0.0 156.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY020635.D

Acq: 18 Dec 2024 14:54

Instrument :

MSVOA_Y

ClientSampleId :

SB-02

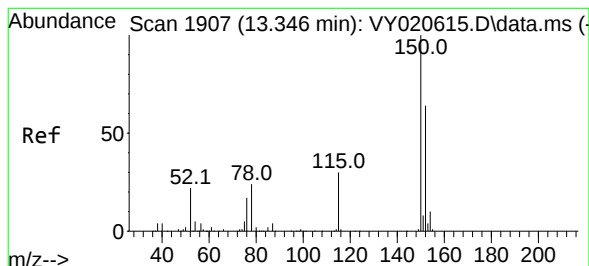
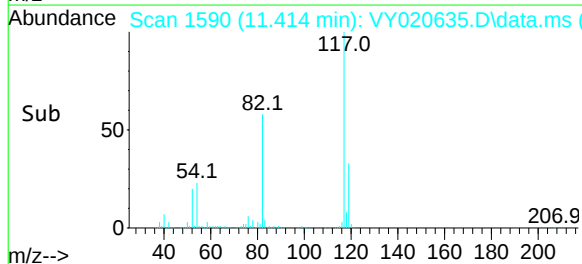
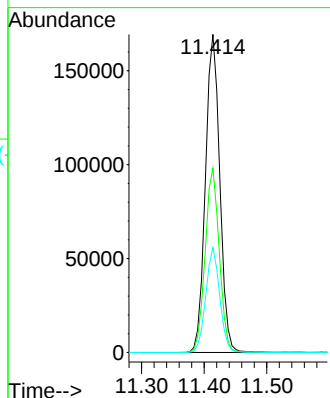
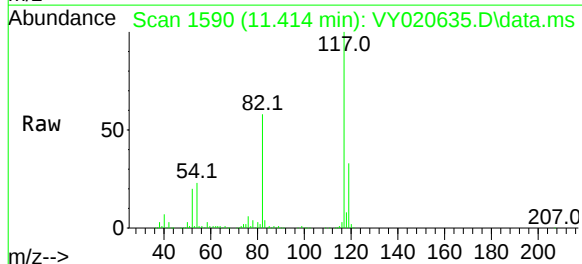
Tgt Ion:117 Resp: 269674

Ion Ratio Lower Upper

117 100

82 58.0 45.8 68.6

119 33.0 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY020635.D

Acq: 18 Dec 2024 14:54

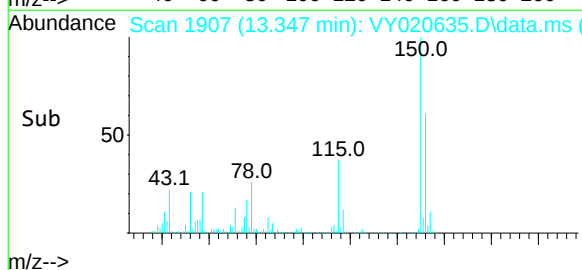
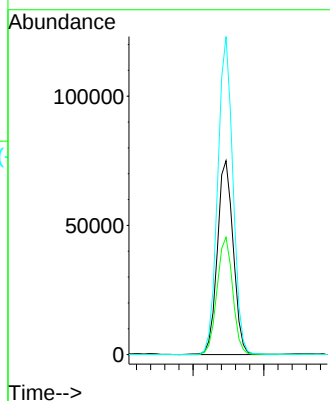
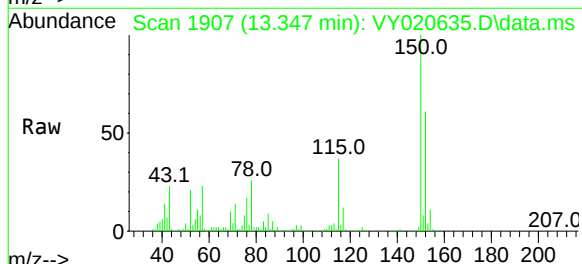
Tgt Ion:152 Resp: 117196

Ion Ratio Lower Upper

152 100

115 59.5 30.2 90.6

150 156.6 0.0 355.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M

Title : SW846 8260

Signal : TIC: VY020635.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.812	9	15	35	rVB	286229	413266	16.75%	1.107%
2	4.610	465	474	484	rBV3	10353	33561	1.36%	0.090%
3	7.628	958	969	976	rBV	121653	300775	12.19%	0.806%
4	7.707	976	982	994	rVB	208867	472636	19.16%	1.266%
5	8.061	1030	1040	1049	rBV	129197	279089	11.31%	0.747%
6	8.610	1120	1130	1145	rBV	369438	733369	29.73%	1.964%
7	10.103	1367	1375	1396	rBV	587913	1000913	40.58%	2.681%
8	11.219	1548	1558	1568	rBV4	13880	37862	1.53%	0.101%
9	11.414	1582	1590	1600	rBV	529449	845111	34.26%	2.263%
10	11.603	1616	1621	1624	rBV	23203	42078	1.71%	0.113%
11	11.640	1624	1627	1635	rVB4	29793	62975	2.55%	0.169%
12	11.926	1667	1674	1686	rBV6	24391	78451	3.18%	0.210%
13	12.170	1709	1714	1722	rVB5	21891	46625	1.89%	0.125%
14	12.402	1747	1752	1758	rVV	396388	640084	25.95%	1.714%
15	12.450	1758	1760	1766	rVB3	33960	52903	2.14%	0.142%
16	12.566	1776	1779	1786	rVB2	41508	68667	2.78%	0.184%
17	12.652	1786	1793	1796	rBV3	33107	67688	2.74%	0.181%
18	12.731	1796	1806	1811	rBV2	290971	547849	22.21%	1.467%
19	12.786	1811	1815	1819	rVB2	93063	149665	6.07%	0.401%
20	12.841	1819	1824	1826	rBV3	39458	62714	2.54%	0.168%
21	12.871	1826	1829	1832	rVB3	40755	53020	2.15%	0.142%
22	12.926	1832	1838	1840	rBV2	60754	110195	4.47%	0.295%
23	12.962	1840	1844	1851	rVB2	188083	306615	12.43%	0.821%
24	13.036	1851	1856	1861	rBV4	26624	64711	2.62%	0.173%
25	13.115	1861	1869	1871	rBV3	58306	149385	6.06%	0.400%
26	13.243	1881	1890	1893	rBV3	233624	570925	23.15%	1.529%
27	13.286	1893	1897	1900	rVV2	152041	233734	9.48%	0.626%
28	13.347	1900	1907	1914	rVB3	587640	1061690	43.04%	2.843%
29	13.426	1915	1920	1923	rBV2	158987	240806	9.76%	0.645%
30	13.529	1934	1937	1939	rBV3	36311	48079	1.95%	0.129%
31	13.560	1940	1942	1945	rVB2	55610	60347	2.45%	0.162%
32	13.627	1945	1953	1954	rBV4	79894	168735	6.84%	0.452%
33	13.676	1954	1961	1965	rVV2	1467892	2465291	99.94%	6.602%
34	13.712	1965	1967	1971	rVV2	230600	312993	12.69%	0.838%
35	13.773	1971	1977	1983	rVV5	190162	442239	17.93%	1.184%
36	13.840	1983	1988	1992	rVV3	207799	495145	20.07%	1.326%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260

37	13.889	1993	1996	2000	rVV3	205591	358382	14.53%	0.960%
38	13.938	2001	2004	2008	rVB3	190785	259612	10.52%	0.695%
39	13.993	2009	2013	2018	rBV6	79616	159072	6.45%	0.426%
40	14.066	2019	2025	2029	rBV3	159593	321938	13.05%	0.862%

41	14.115	2029	2033	2036	rBV3	182511	248763	10.08%	0.666%
42	14.170	2036	2042	2050	rVB8	871922	1884599	76.40%	5.047%
43	14.237	2050	2053	2058	rVB3	251683	314873	12.76%	0.843%
44	14.304	2060	2064	2066	rBV3	177110	227711	9.23%	0.610%
45	14.340	2066	2070	2074	rVB2	550694	778329	31.55%	2.084%

46	14.395	2074	2079	2085	rVB3	280878	493394	20.00%	1.321%
47	14.474	2086	2092	2094	rBV5	74489	160559	6.51%	0.430%
48	14.529	2097	2101	2108	rBV	1642437	2274920	92.23%	6.093%
49	14.602	2108	2113	2116	rBV	385209	589701	23.91%	1.579%
50	14.645	2116	2120	2127	rVB	1161709	1830302	74.20%	4.902%

51	14.724	2128	2133	2136	rBV4	182622	344421	13.96%	0.922%
52	14.767	2136	2140	2148	rVB2	465290	1044816	42.36%	2.798%
53	14.852	2149	2154	2159	rVB4	262178	519142	21.05%	1.390%
54	14.907	2159	2163	2165	rBV3	111866	184935	7.50%	0.495%
55	14.950	2166	2170	2176	rBV5	272529	581243	23.56%	1.557%

56	15.011	2176	2180	2182	rBV3	165942	277147	11.24%	0.742%
57	15.054	2183	2187	2193	rVB3	554324	1052416	42.66%	2.819%
58	15.121	2193	2198	2203	rBV	1040980	1638153	66.41%	4.387%
59	15.169	2203	2206	2215	rVB4	188149	445584	18.06%	1.193%
60	15.249	2216	2219	2221	rBV4	96079	140119	5.68%	0.375%

61	15.346	2230	2235	2241	rBV	1696318	2466700	100.00%	6.606%
62	15.450	2249	2252	2256	rVB2	223210	341319	13.84%	0.914%
63	15.511	2257	2262	2268	rVB2	465130	816678	33.11%	2.187%
64	15.864	2317	2320	2323	rVV3	105258	148626	6.03%	0.398%
65	15.919	2324	2329	2335	rVV4	306099	748845	30.36%	2.006%

66	15.980	2335	2339	2345	rVB3	280811	618679	25.08%	1.657%
67	16.047	2345	2350	2358	rVB	582565	1045287	42.38%	2.799%
68	16.248	2378	2383	2389	rBV	1194703	2113456	85.68%	5.660%
69	16.358	2397	2401	2404	rBV2	108507	189297	7.67%	0.507%

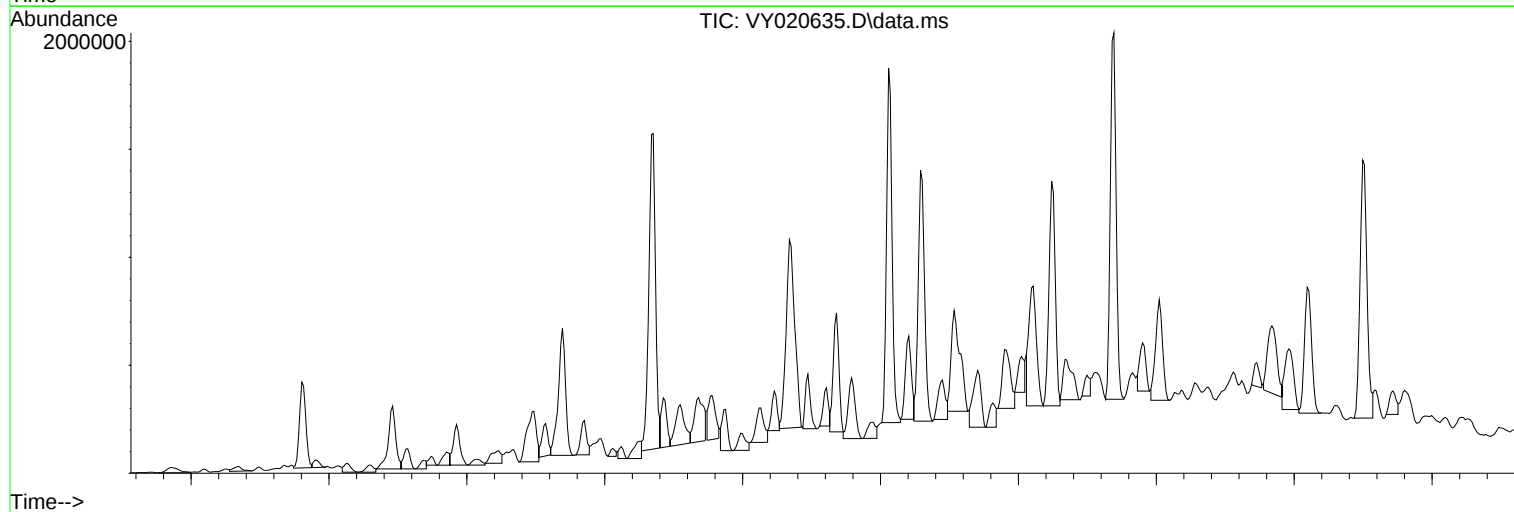
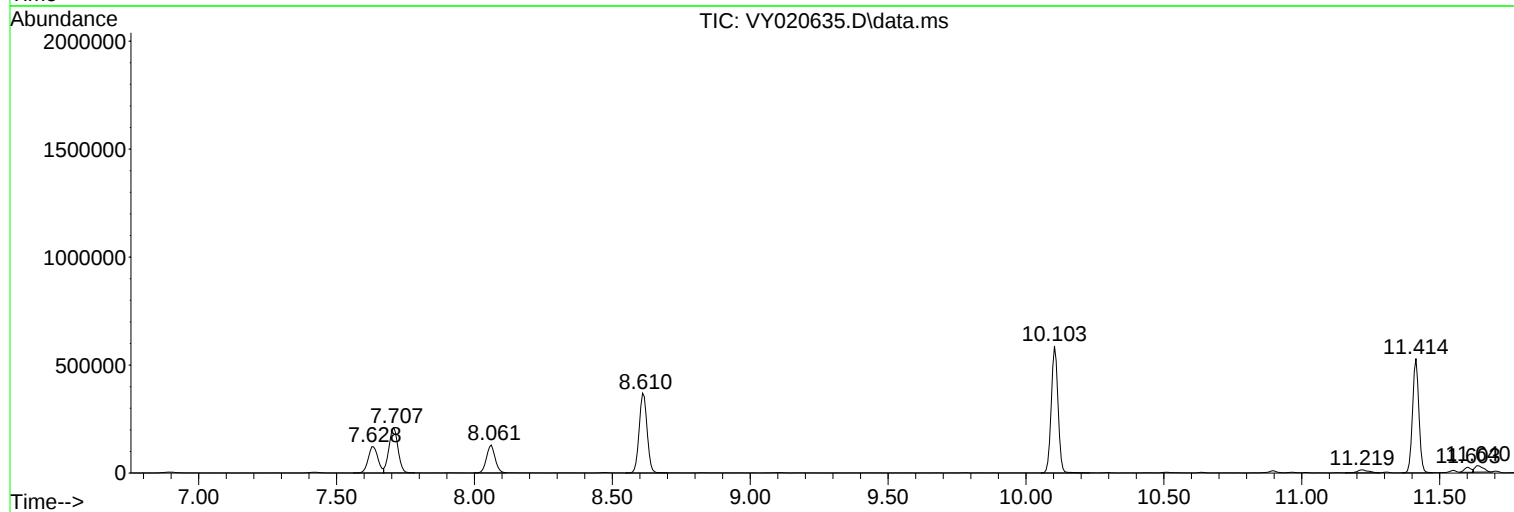
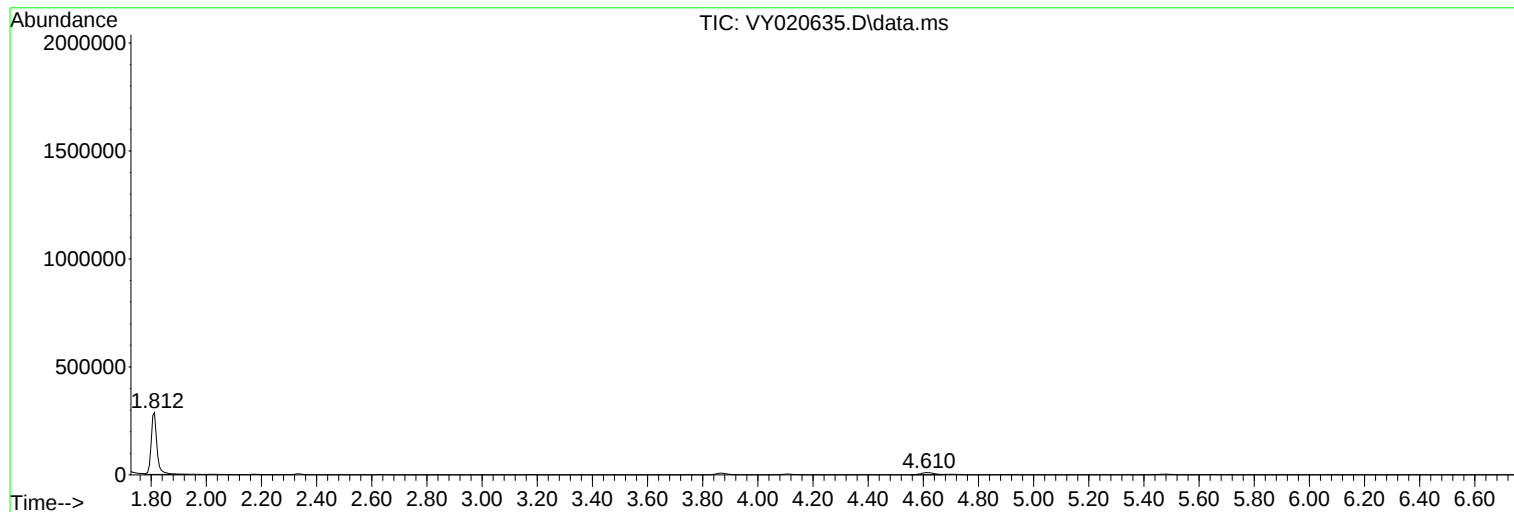
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Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

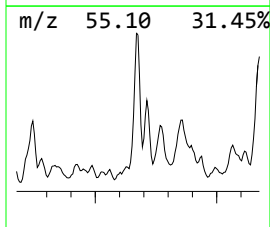
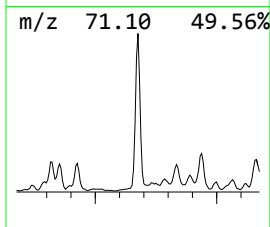
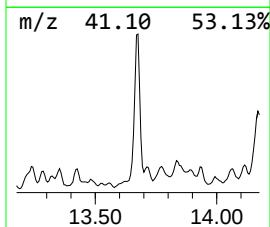
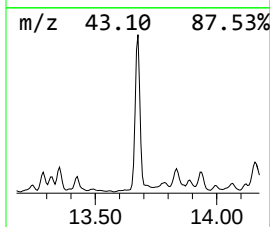
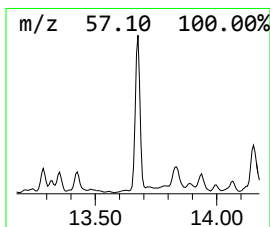
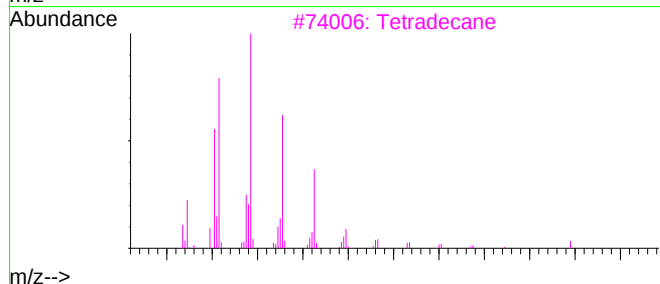
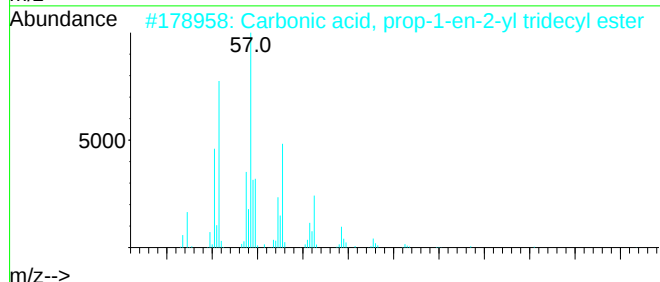
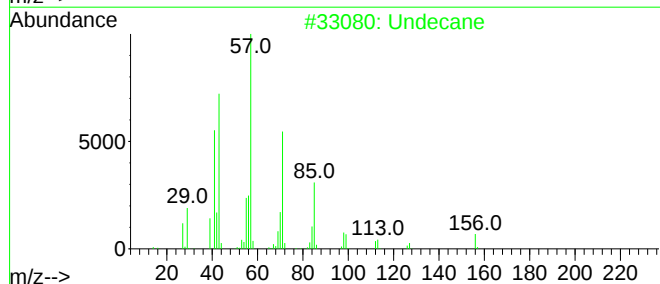
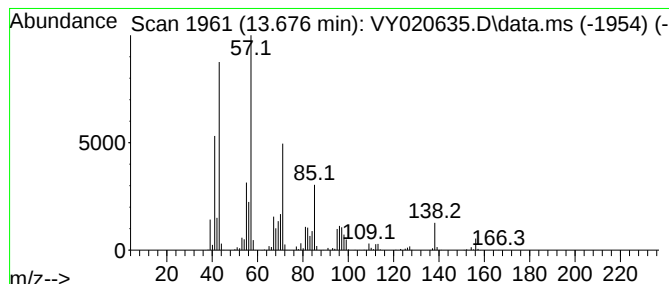
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Quant Title : SW846 8260

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

Peak Number 1 Undecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.676	116.10 ug/l	2465290	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	64
2	Carbonic acid, prop-1-en-2-yl tr...	284	C17H32O3	1000382-90-8	64
3	Tetradecane	198	C14H30	000629-59-4	58
4	Carbonic acid, prop-1-en-2-yl te...	298	C18H34O3	1000382-90-9	58
5	Decane	142	C10H22	000124-18-5	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

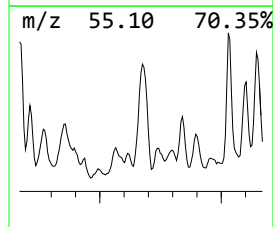
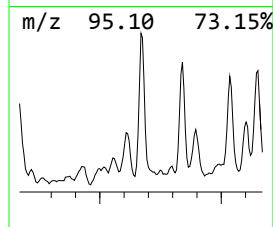
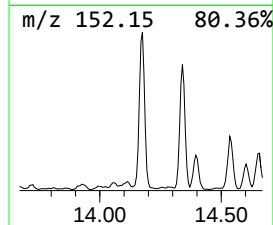
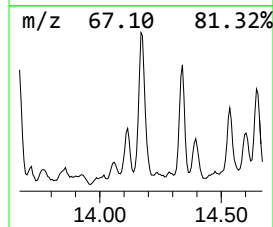
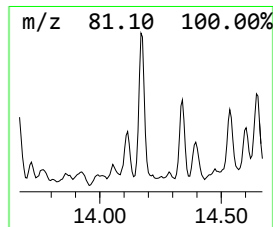
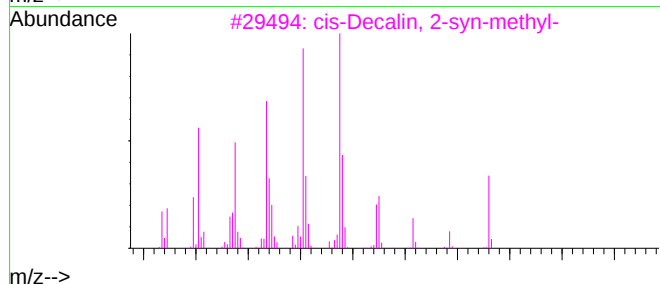
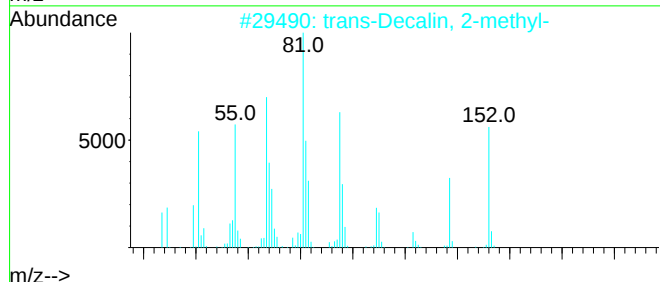
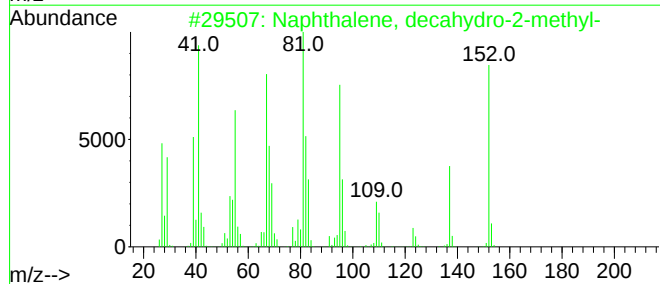
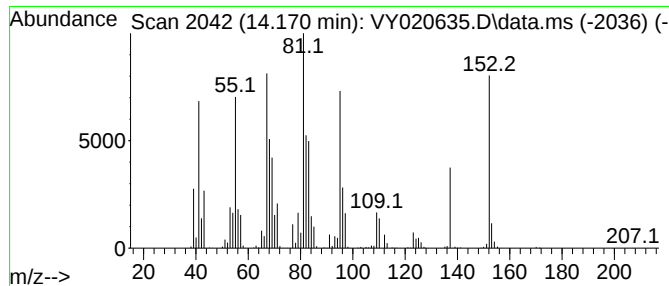
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Quant Title : SW846 8260

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

Peak Number 2 Naphthalene, decahydro-2-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.169	88.75 ug/l	1884600	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	98
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	97
3	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	83
4	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	70
5	Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	70



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

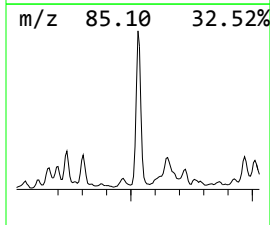
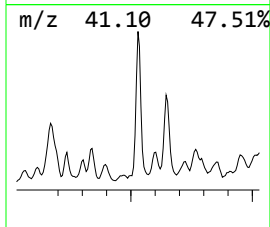
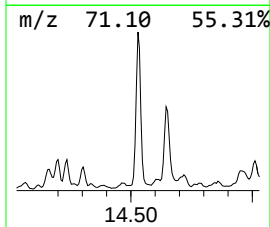
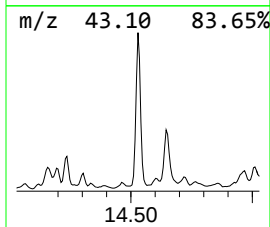
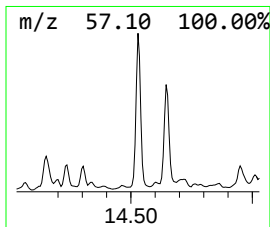
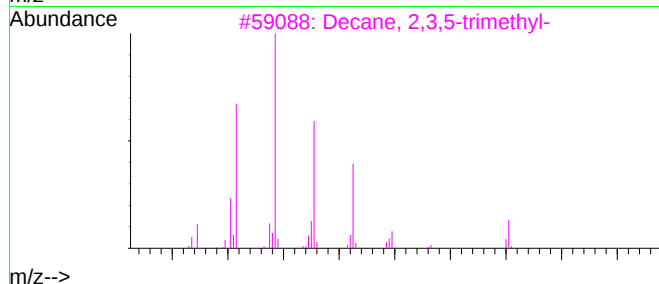
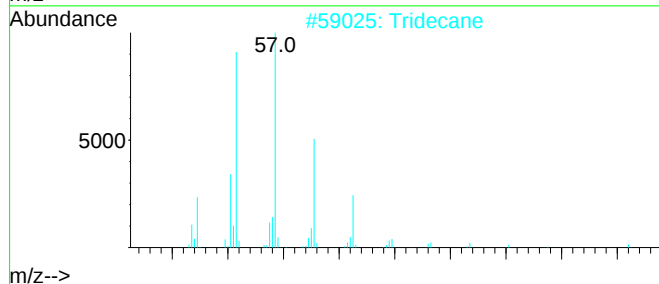
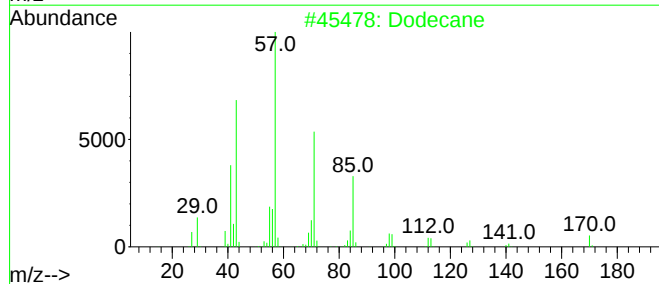
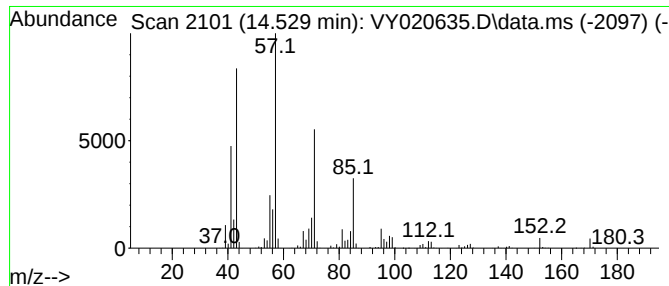
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Quant Title : SW846 8260

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

Peak Number 3 Dodecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	107.14 ug/l	2274920	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	93
2	Tridecane	184	C13H28	000629-50-5	72
3	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	72
4	Undecane	156	C11H24	001120-21-4	72
5	Tetradecane	198	C14H30	000629-59-4	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

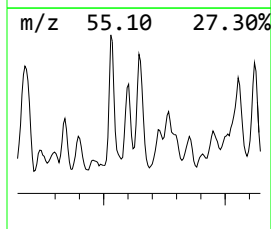
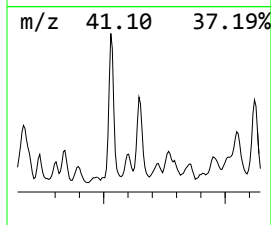
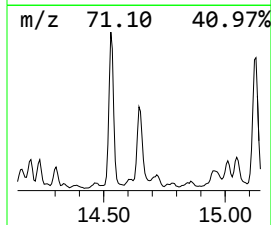
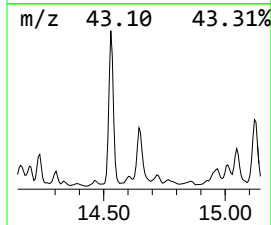
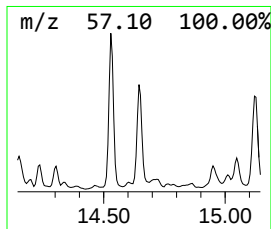
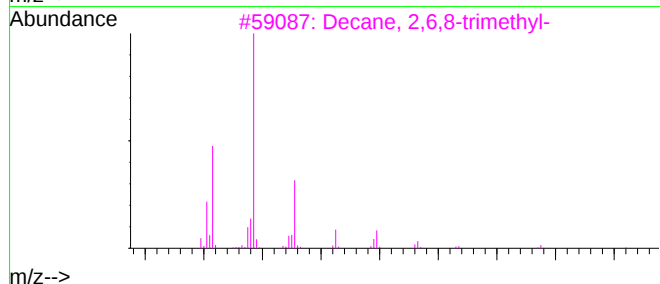
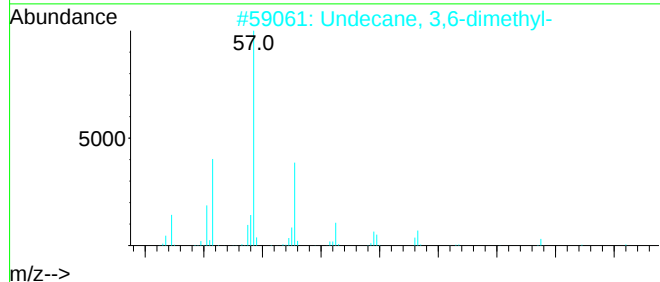
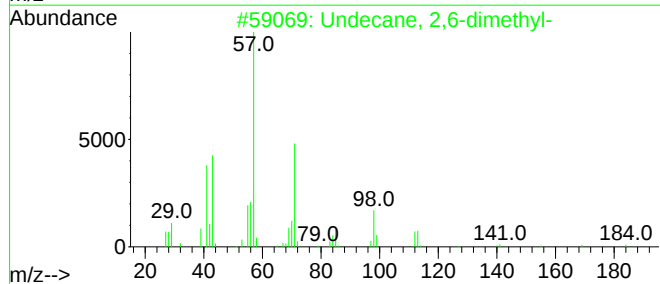
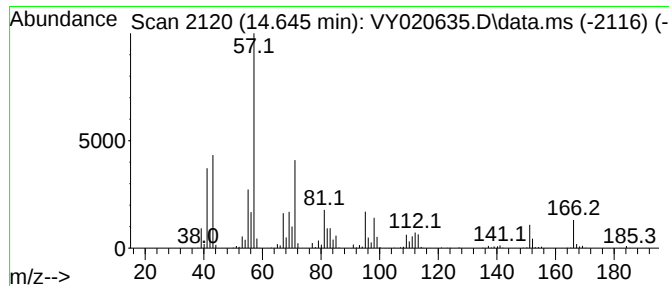
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Quant Title : SW846 8260

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

Peak Number 4 Undecane, 2,6-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.645	86.20 ug/l	1830300	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	96
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	60
3	Decane, 2,6,8-trimethyl-	184	C13H28	062108-26-3	47
4	Sulfurous acid, di(2-ethylhexyl)...	306	C16H34O3S	1000309-19-1	43
5	Sulfurous acid, 2-ethylhexyl hex...	418	C24H50O3S	1000309-19-9	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

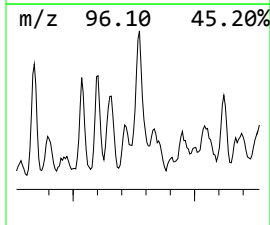
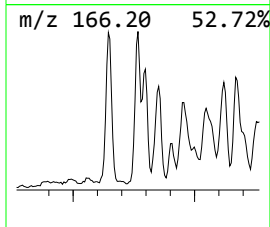
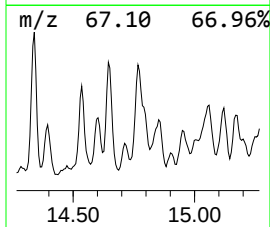
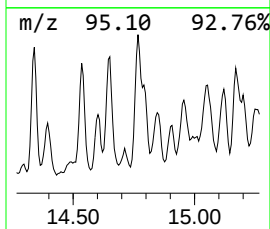
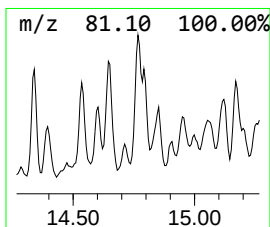
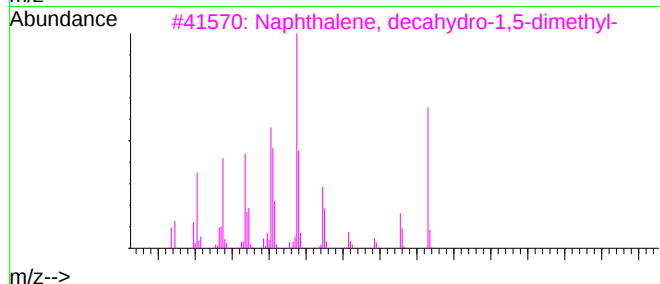
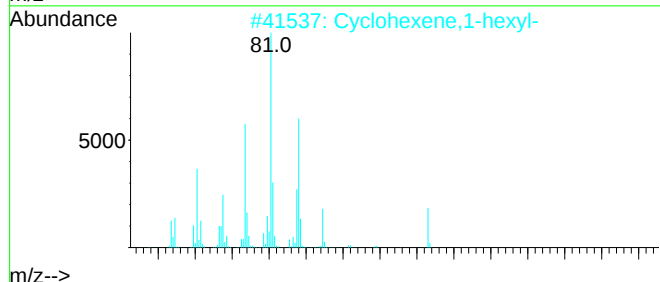
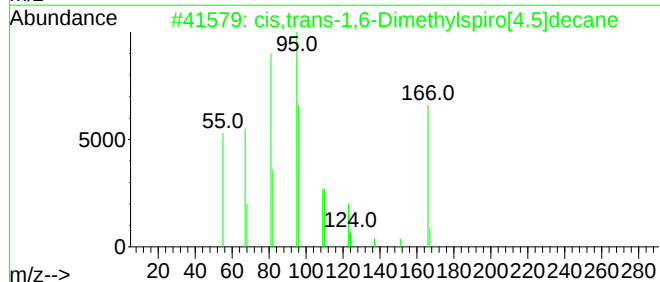
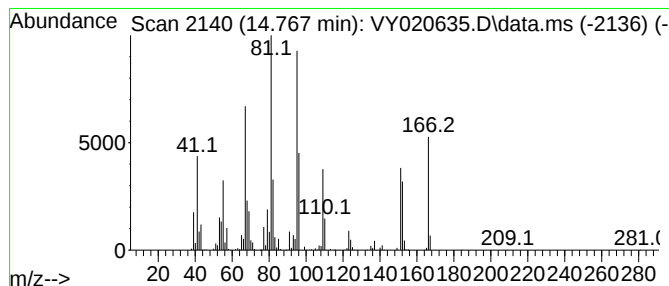
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Quant Title : SW846 8260

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

Peak Number 5 cis,trans-1,6-Dimethylspiro... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.767	49.21 ug/l	1044820	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis,trans-1,6-Dimethylspiro[4.5]...	166	C12H22	1000111-72-3	70
2	Cyclohexene,1-hexyl-	166	C12H22	003964-66-7	60
3	Naphthalene, decahydro-1,5-dimet...	166	C12H22	066552-62-3	60
4	Naphthalene, decahydro-2,6-dimet...	166	C12H22	001618-22-0	58
5	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
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Acq On : 18 Dec 2024 14:54
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Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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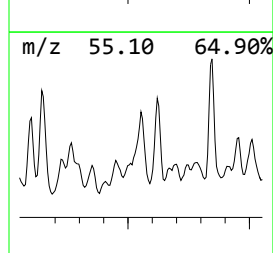
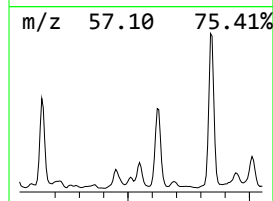
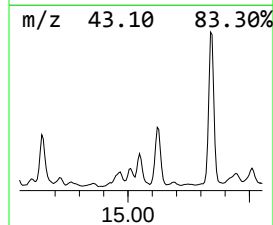
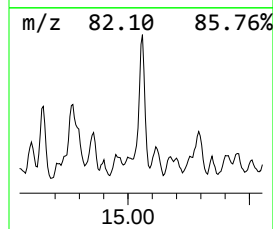
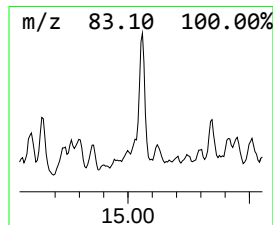
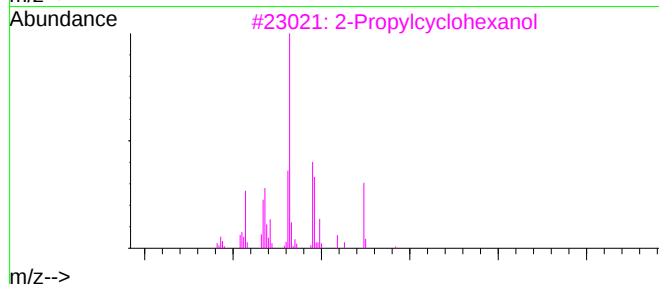
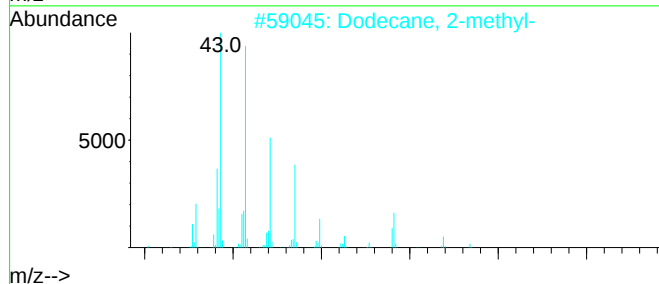
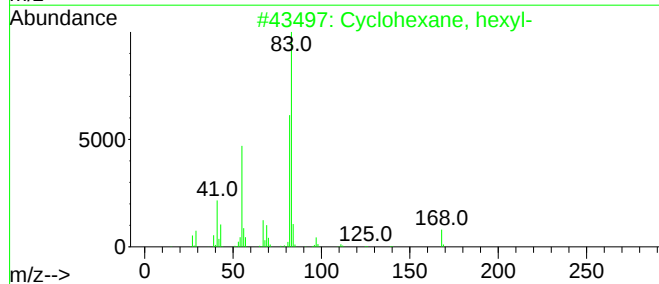
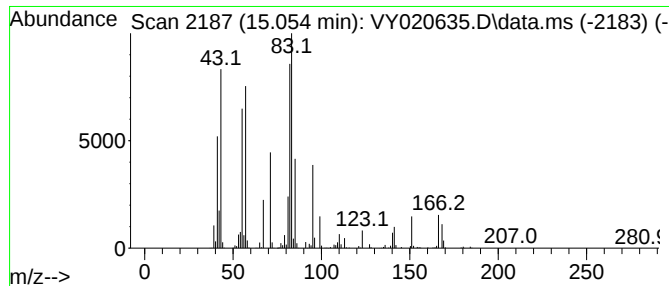
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Quant Title : SW846 8260

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

Peak Number 6 unknown15.054 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.054	49.56 ug/l	1052420	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, hexyl-	168	C12H24	004292-75-5	38
2	Dodecane, 2-methyl-	184	C13H28	001560-97-0	35
3	2-Propylcyclohexanol	142	C9H18O	090676-25-8	35
4	3-Methyl-1-[(1H)-1,2,4-triazol-1...	153	C7H11N3O	064922-02-7	27
5	cis-3-Hexenyl 2-ethylbutyrate	198	C12H22O2	1000433-24-6	27



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

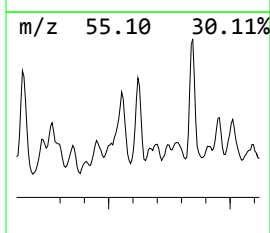
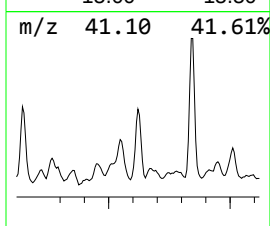
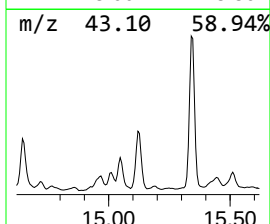
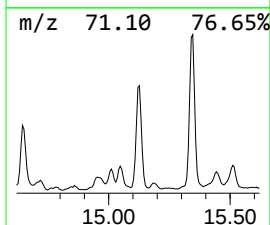
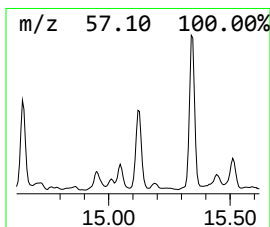
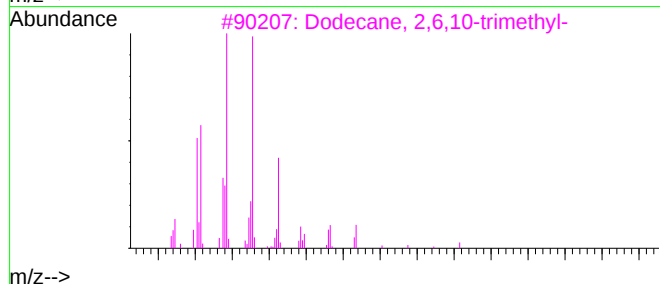
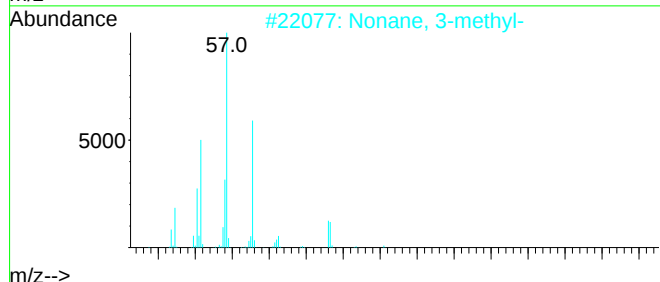
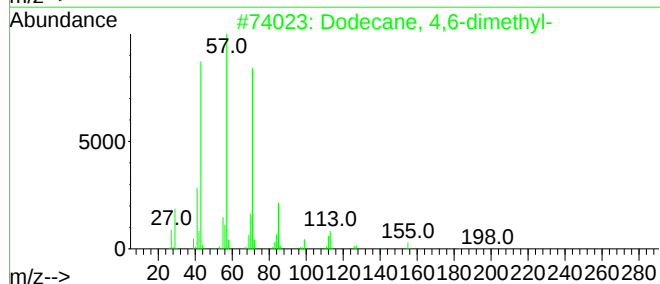
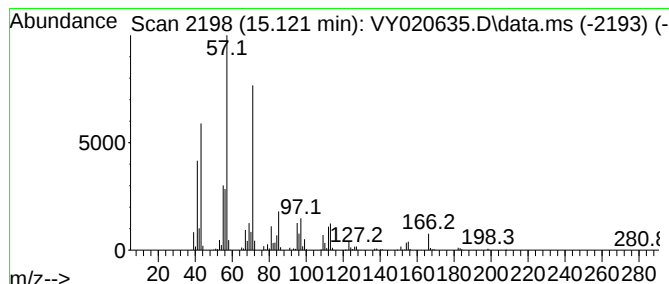
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Quant Title : SW846 8260

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

Peak Number 7 Dodecane, 4,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.121	77.15 ug/l	1638150	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	72
2	Nonane, 3-methyl-	142	C10H22	005911-04-6	72
3	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	64
4	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	64
5	Sulfurous acid, decyl 2-ethylhex...	334	C18H38O3S	1000309-19-3	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

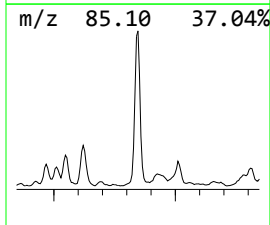
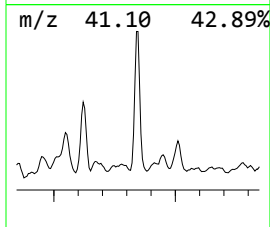
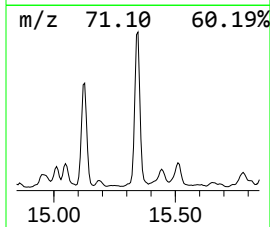
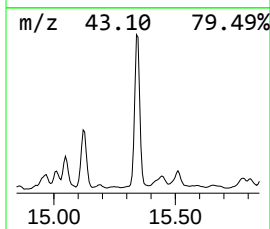
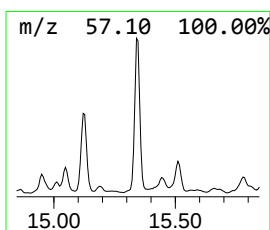
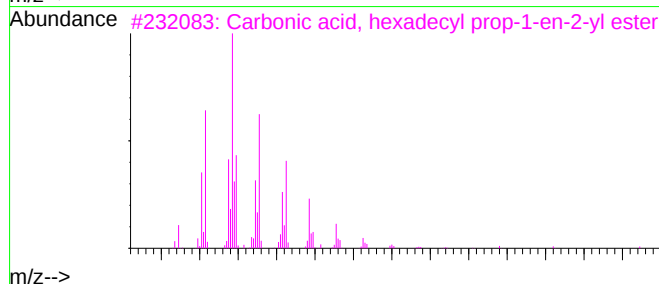
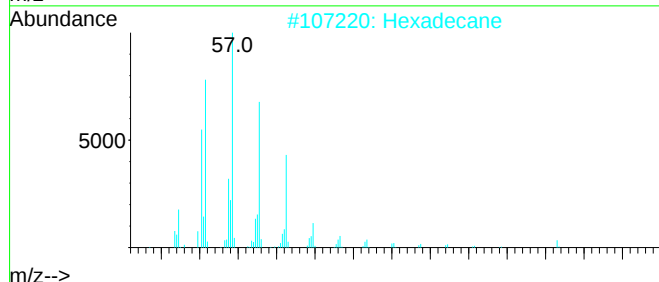
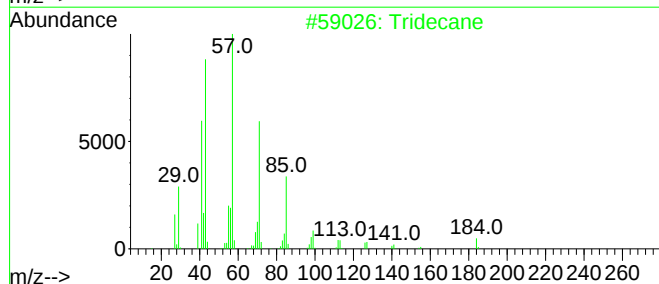
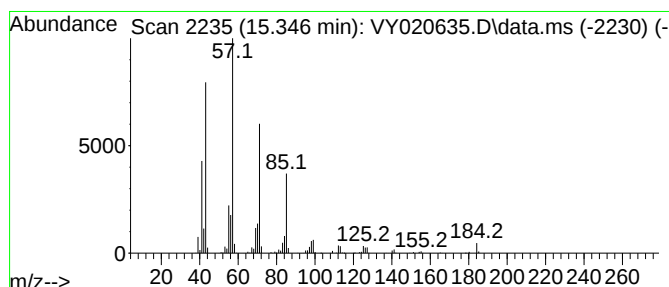
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Quant Title : SW846 8260

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

Peak Number 8 Tridecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	116.17 ug/l	2466700	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	96
2	Hexadecane	226	C16H34	000544-76-3	91
3	Carbonic acid, hexadecyl prop-1-...	326	C20H38O3	1000382-90-3	80
4	Dodecane	170	C12H26	000112-40-3	80
5	Carbonic acid, tetradecyl vinyl ...	284	C17H32O3	1000382-54-5	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

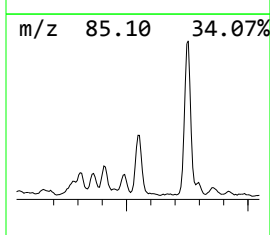
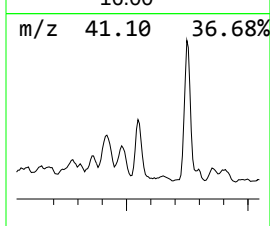
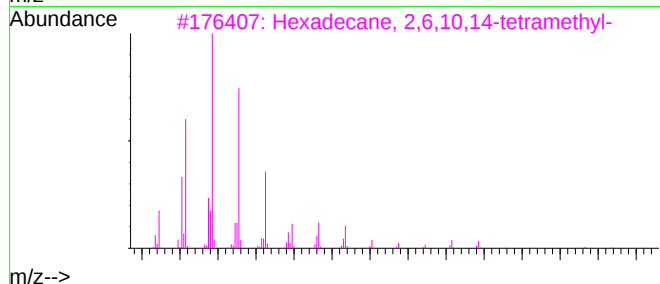
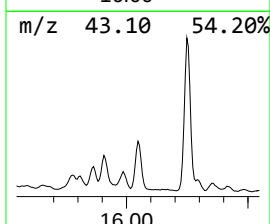
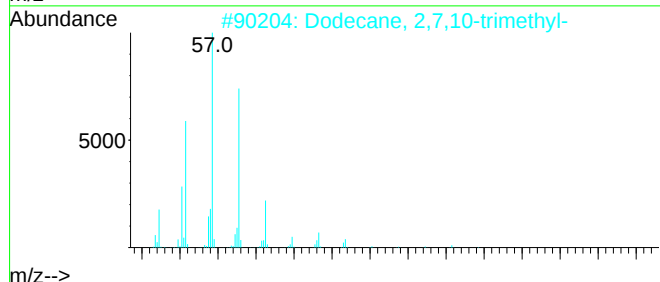
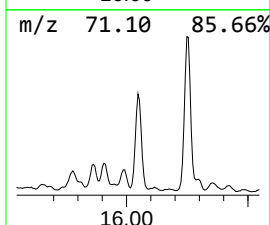
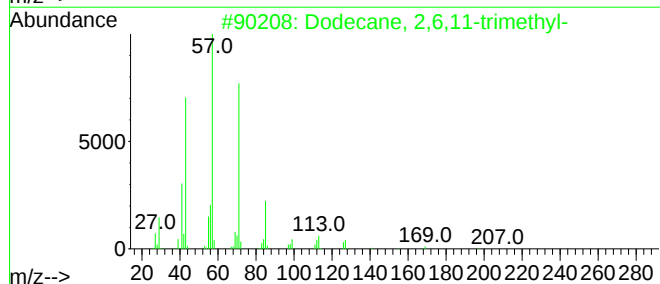
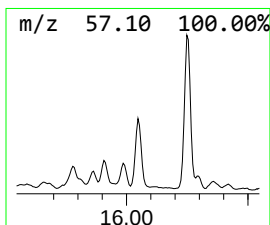
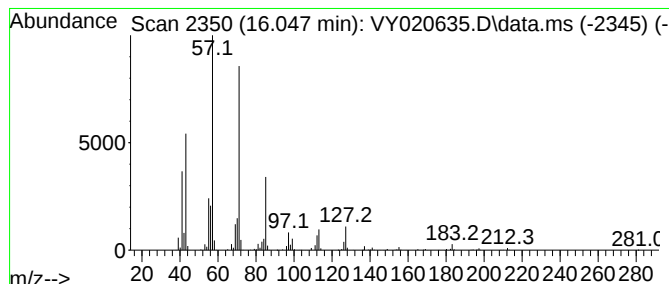
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Quant Title : SW846 8260

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

Peak Number 9 Dodecane, 2,6,11-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.047	49.23 ug/l	1045290	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	90
2	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	90
3	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	86
4	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	80
5	Tetradecane, 4-methyl-	212	C15H32	025117-24-2	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

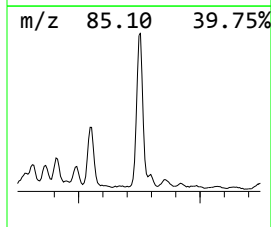
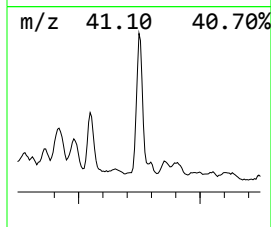
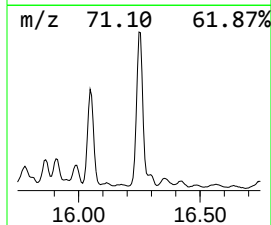
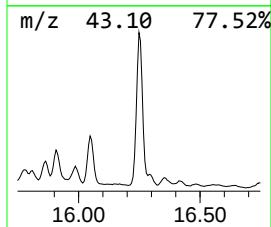
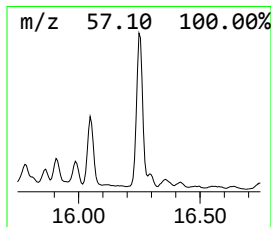
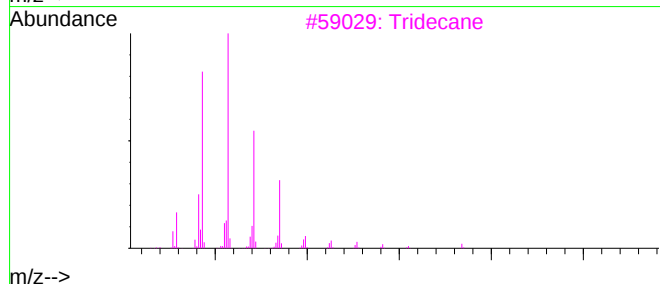
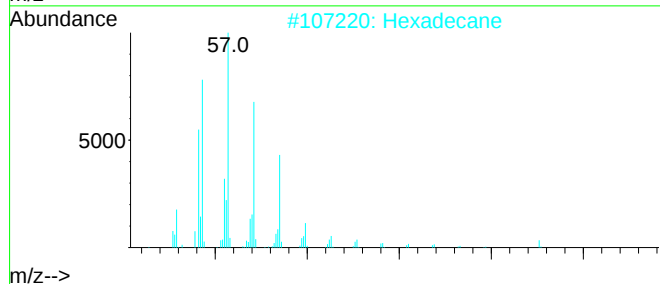
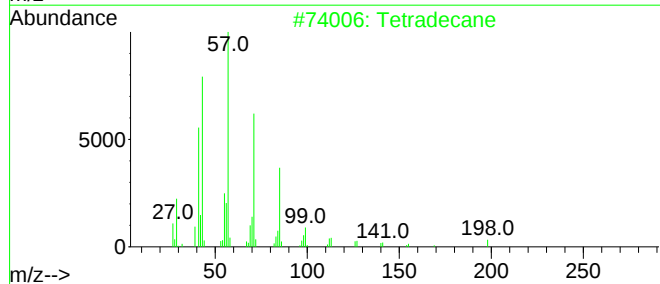
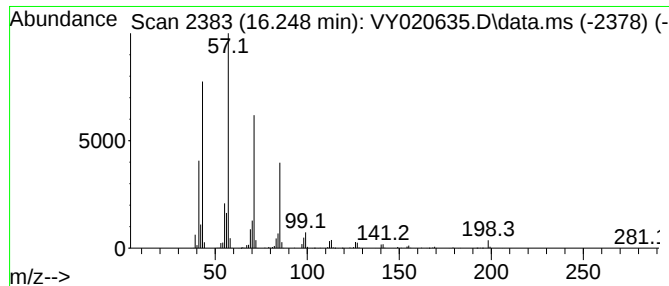
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Quant Title : SW846 8260

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

Peak Number 10 Tetradecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.248	99.53 ug/l	2113460	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	98
2	Hexadecane	226	C16H34	000544-76-3	91
3	Tridecane	184	C13H28	000629-50-5	86
4	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	86
5	Carbonic acid, octadecyl prop-1-...	354	C22H42O3	1000383-11-5	86



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Undecane	13.676	116.1	ug/l	2465290	4	13.347	1061690	50.0
Naphthalene, de...	14.169	88.8	ug/l	1884600	4	13.347	1061690	50.0
Dodecane	14.529	107.1	ug/l	2274920	4	13.347	1061690	50.0
Undecane, 2,6-d...	14.645	86.2	ug/l	1830300	4	13.347	1061690	50.0
cis,trans-1,6-D...	14.767	49.2	ug/l	1044820	4	13.347	1061690	50.0
unknown15.054	15.054	49.6	ug/l	1052420	4	13.347	1061690	50.0
Dodecane, 4,6-d...	15.121	77.2	ug/l	1638150	4	13.347	1061690	50.0
Tridecane	15.346	116.2	ug/l	2466700	4	13.347	1061690	50.0
Dodecane, 2,6,1...	16.047	49.2	ug/l	1045290	4	13.347	1061690	50.0
Tetradecane	16.248	99.5	ug/l	2113460	4	13.347	1061690	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
 Data File : VY020625.D
 Acq On : 18 Dec 2024 10:52
 Operator : SY/MD
 Sample : VY1218SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1218SBL01

Quant Time: Dec 18 14:21:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 18 05:27:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	201389	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	355898	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	296016	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	114022	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	109578	49.681	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	99.360%
35) Dibromofluoromethane	7.640	113	112159	44.716	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	89.440%
50) Toluene-d8	10.109	98	424991	48.408	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.820%
62) 4-Bromofluorobenzene	12.408	95	128486	37.413	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	74.820%

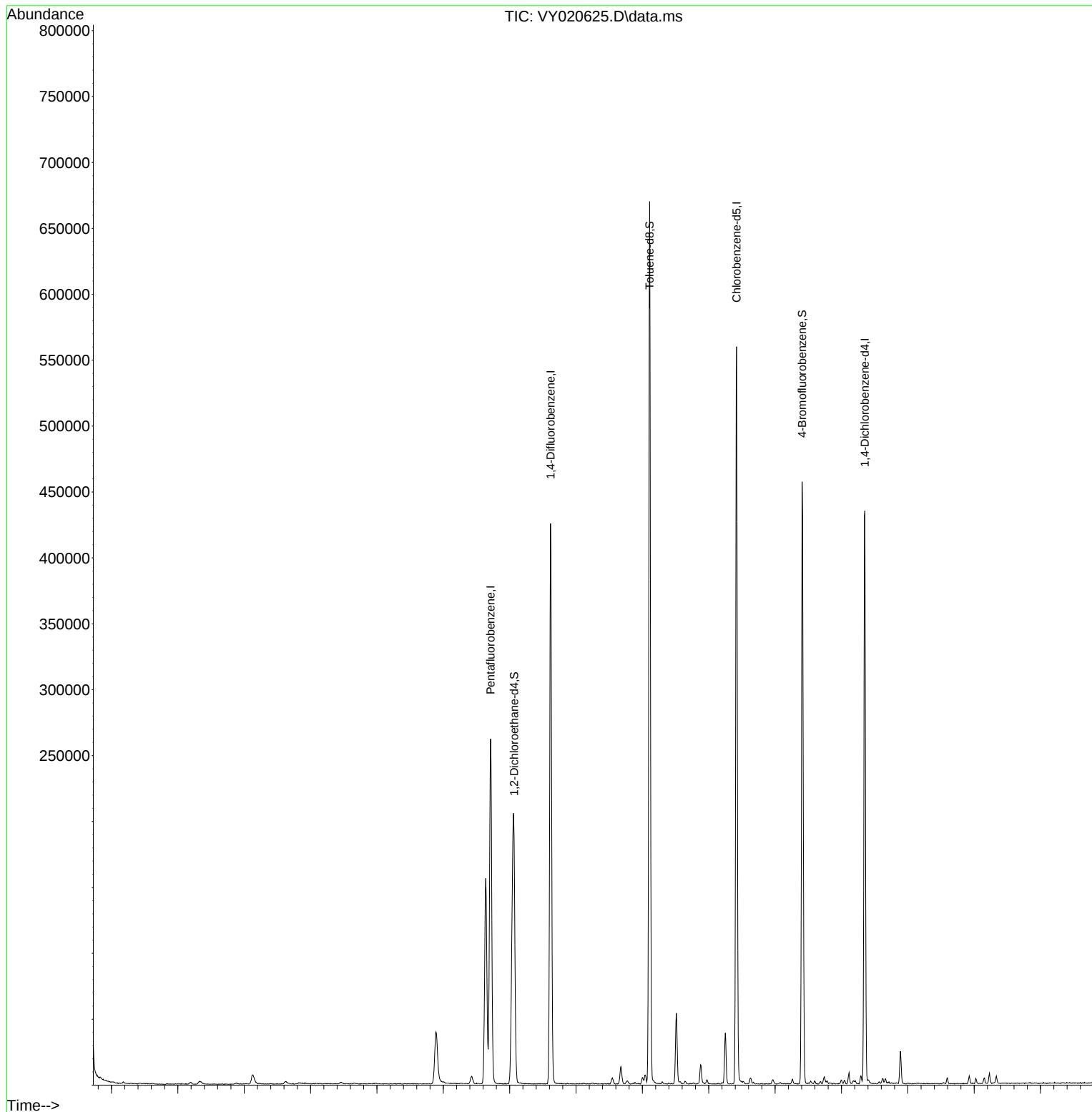
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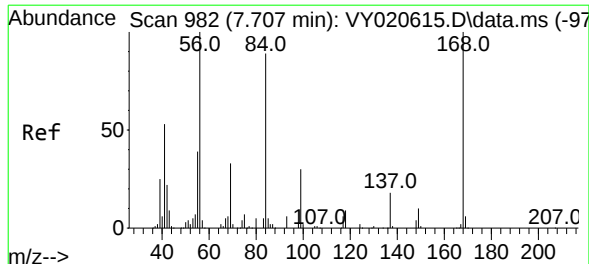
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
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Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

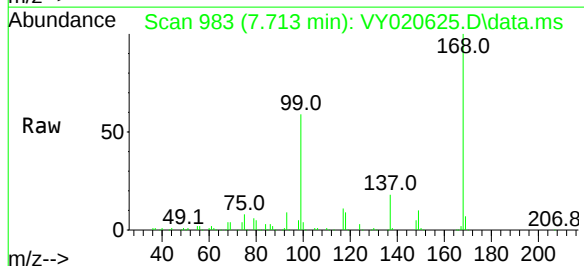
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Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



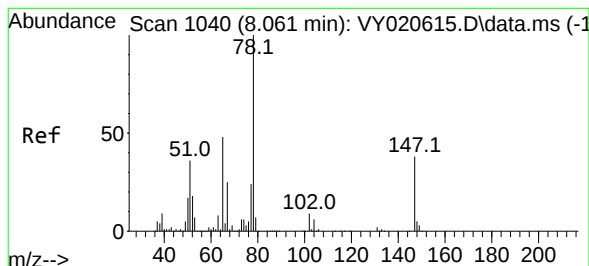
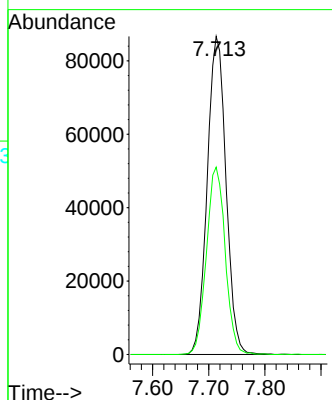
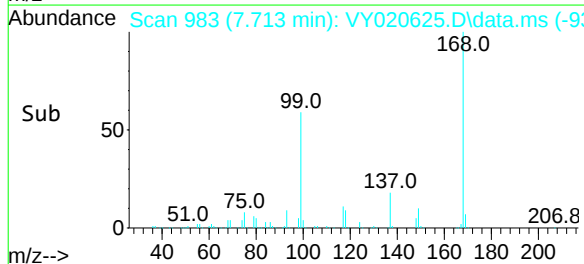


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

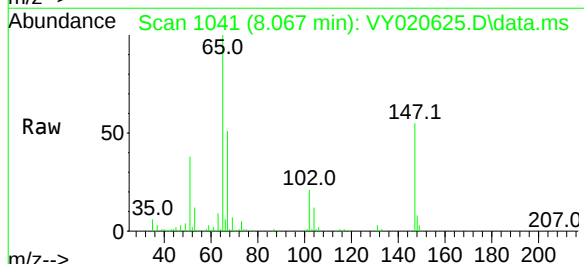
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ClientSampleId :
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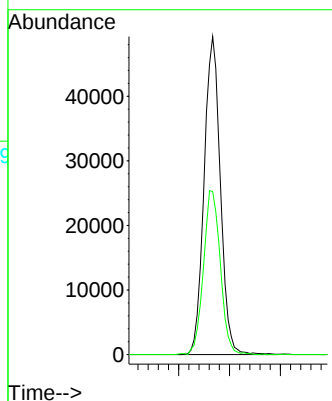
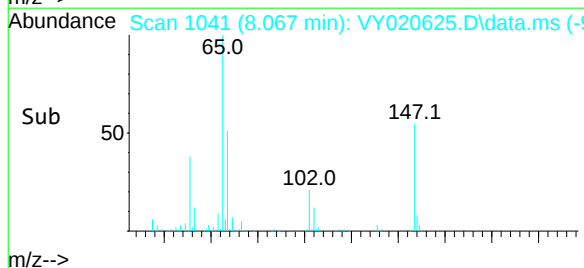
Tgt Ion: 168 Resp: 201389
Ion Ratio Lower Upper
168 100
99 58.9 47.0 70.6

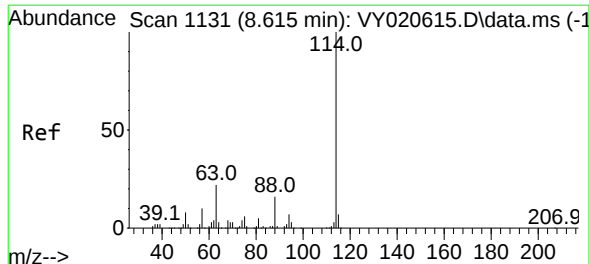


#33
1,2-Dichloroethane-d4
Concen: 49.681 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52



Tgt Ion: 65 Resp: 109578
Ion Ratio Lower Upper
65 100
67 53.4 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY020625.D

Acq: 18 Dec 2024 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY1218SBL01

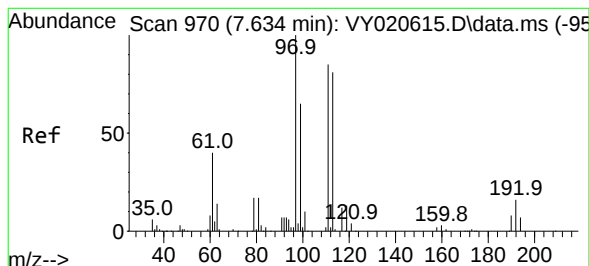
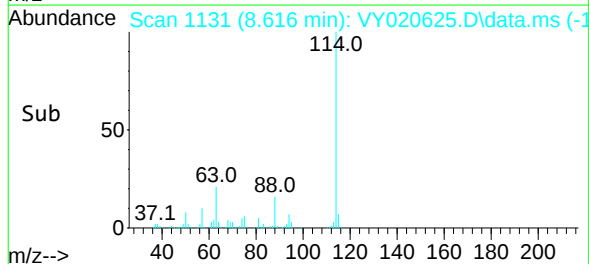
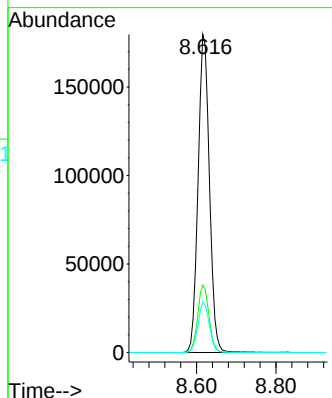
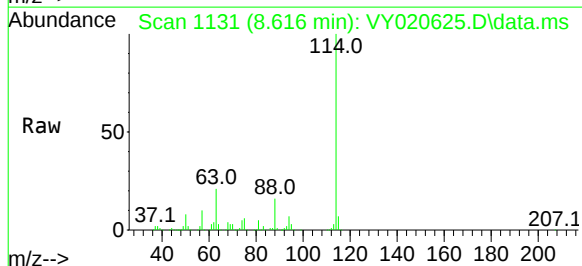
Tgt Ion:114 Resp: 355898

Ion Ratio Lower Upper

114 100

63 21.2 0.0 44.0

88 16.0 0.0 32.8



#35

Dibromofluoromethane

Concen: 44.716 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY020625.D

Acq: 18 Dec 2024 10:52

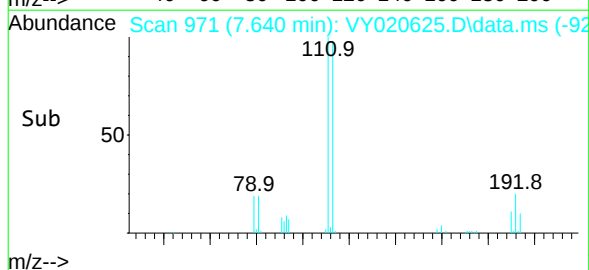
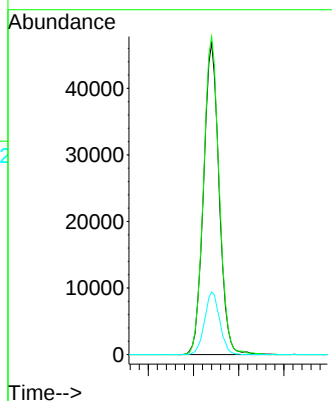
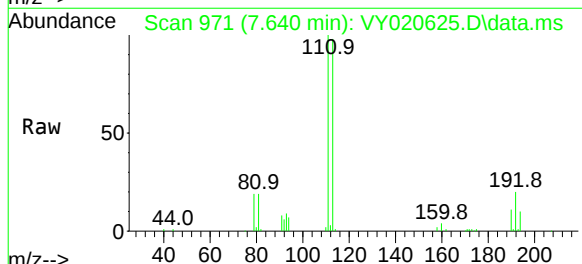
Tgt Ion:113 Resp: 112159

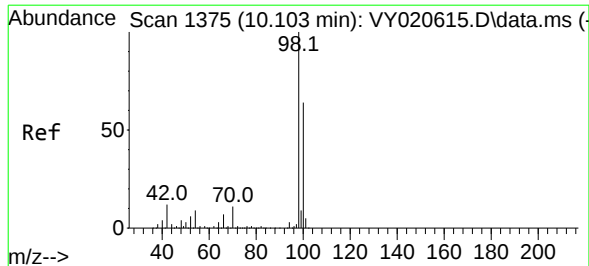
Ion Ratio Lower Upper

113 100

111 102.5 82.9 124.3

192 19.5 15.7 23.5





#50

Toluene-d8

Concen: 48.408 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. 0.006 min

Lab File: VY020625.D

Acq: 18 Dec 2024 10:52

Instrument :

MSVOA_Y

ClientSampleId :

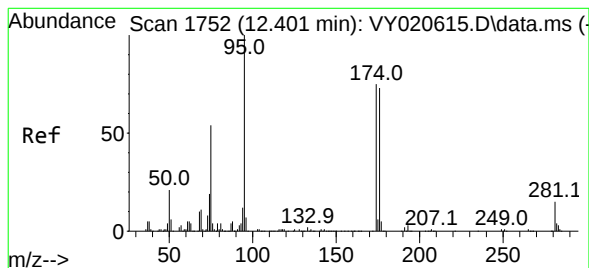
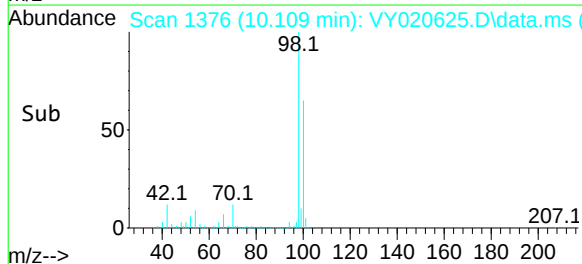
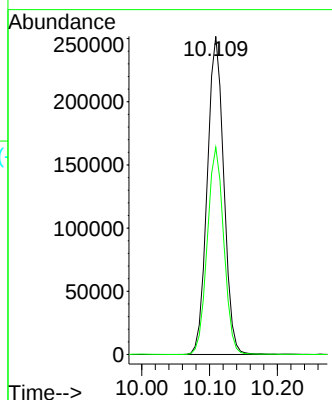
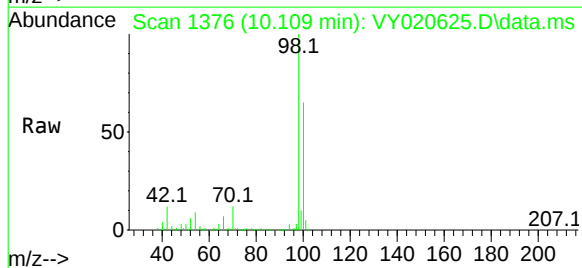
VY1218SBL01

Tgt Ion: 98 Resp: 424991

Ion Ratio Lower Upper

98 100

100 65.2 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 37.413 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY020625.D

Acq: 18 Dec 2024 10:52

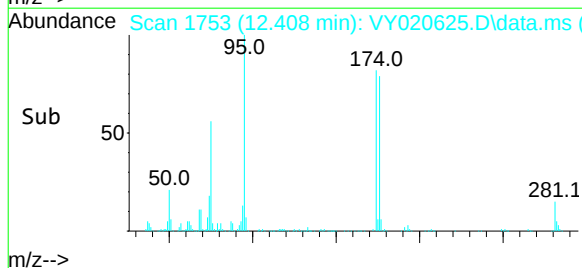
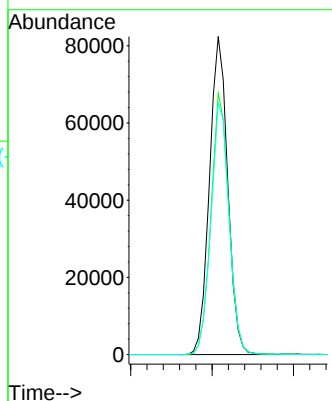
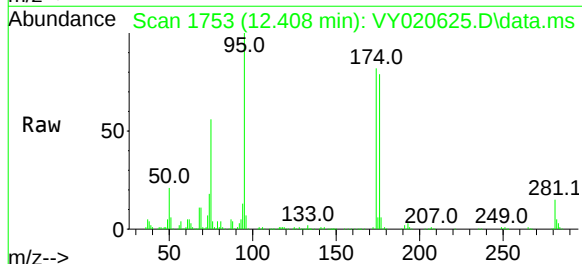
Tgt Ion: 95 Resp: 128486

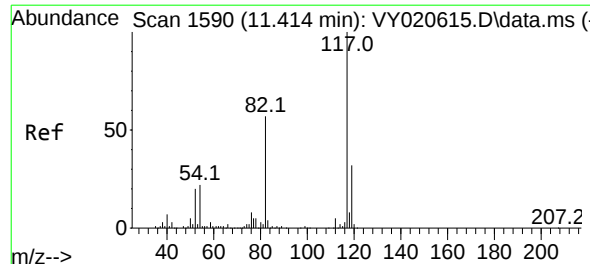
Ion Ratio Lower Upper

95 100

174 81.0 0.0 161.8

176 78.5 0.0 156.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 15

Delta R.T. 0.006 min

Lab File: VY020625.D

Acq: 18 Dec 2024 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY1218SBL01

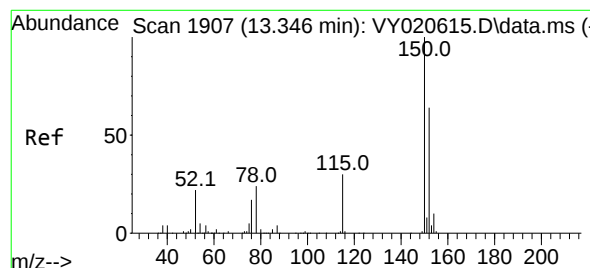
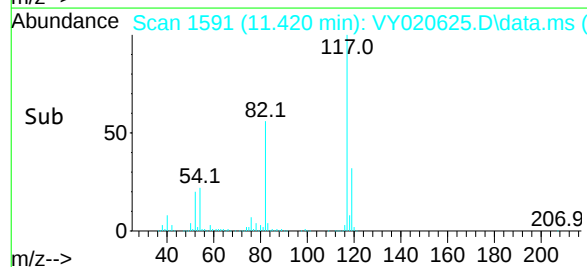
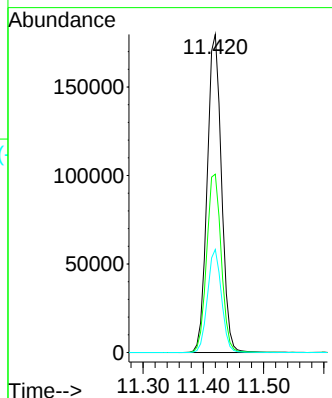
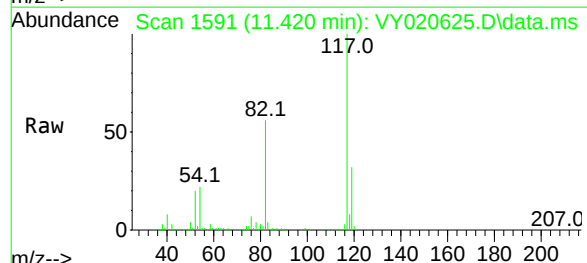
Tgt Ion:117 Resp: 296016

Ion Ratio Lower Upper

117 100

82 56.0 45.8 68.6

119 32.4 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY020625.D

Acq: 18 Dec 2024 10:52

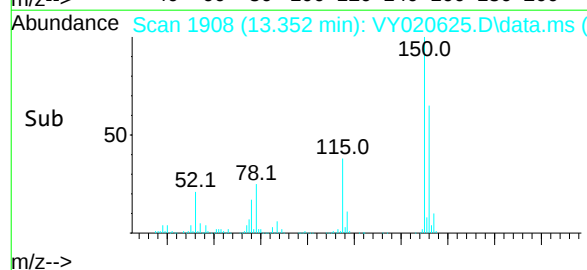
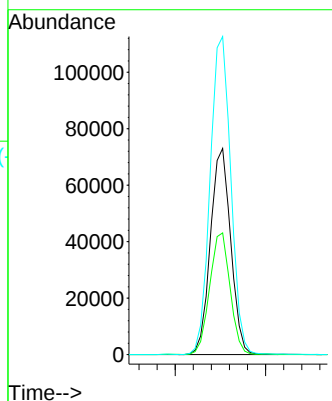
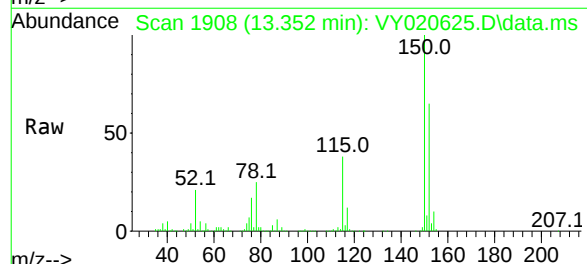
Tgt Ion:152 Resp: 114022

Ion Ratio Lower Upper

152 100

115 59.2 30.2 90.6

150 157.4 0.0 355.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
 Data File : VY020625.D
 Acq On : 18 Dec 2024 10:52
 Operator : SY/MD
 Sample : VY1218SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1218SBL01

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\82Y121724S.M

Title : SW846 8260

Signal : TIC: VY020625.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.129	387	395	408	rBV2	6863	22629	2.01%	0.350%
2	6.890	835	848	864	rBV	39554	130386	11.56%	2.018%
3	7.427	928	936	947	rVB2	5795	14603	1.29%	0.226%
4	7.640	960	971	977	rBV	155738	375567	33.29%	5.812%
5	7.713	977	983	997	rVB	261373	603053	53.46%	9.333%
6	8.055	1026	1039	1055	rBV2	205267	634157	56.22%	9.814%
7	8.616	1123	1131	1143	rBV	425042	835328	74.05%	12.927%
8	9.676	1297	1305	1312	rBV2	13236	27602	2.45%	0.427%
9	10.109	1369	1376	1389	rVB	668547	1128031	100.00%	17.457%
10	10.512	1433	1442	1449	rBV	53729	98773	8.76%	1.529%
11	10.877	1492	1502	1512	rBV2	14583	28096	2.49%	0.435%
12	11.249	1557	1563	1573	rVB	38665	65298	5.79%	1.011%
13	11.420	1583	1591	1602	rBV	559164	932078	82.63%	14.425%
14	12.408	1744	1753	1763	rBV2	456844	799524	70.88%	12.373%
15	13.115	1863	1869	1875	rBV2	8623	13062	1.16%	0.202%
16	13.352	1901	1908	1915	rVV	433095	701462	62.18%	10.856%
17	13.889	1991	1996	2008	rVB2	24932	40563	3.60%	0.628%
18	15.230	2210	2216	2221	rVB	7832	11481	1.02%	0.178%

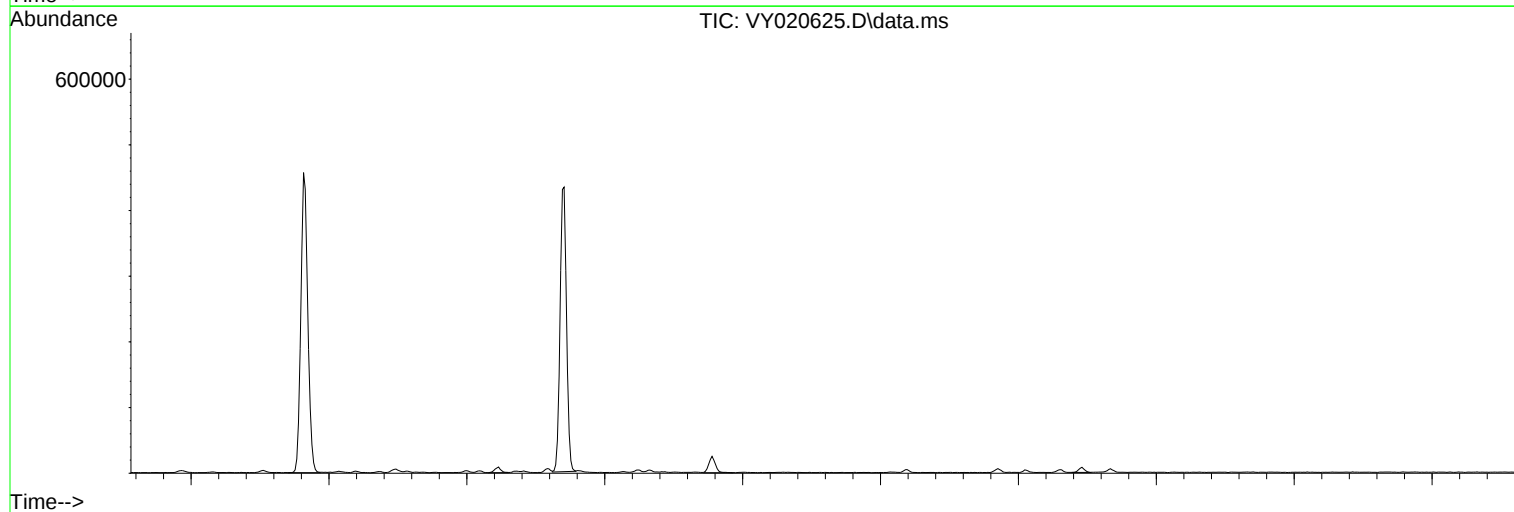
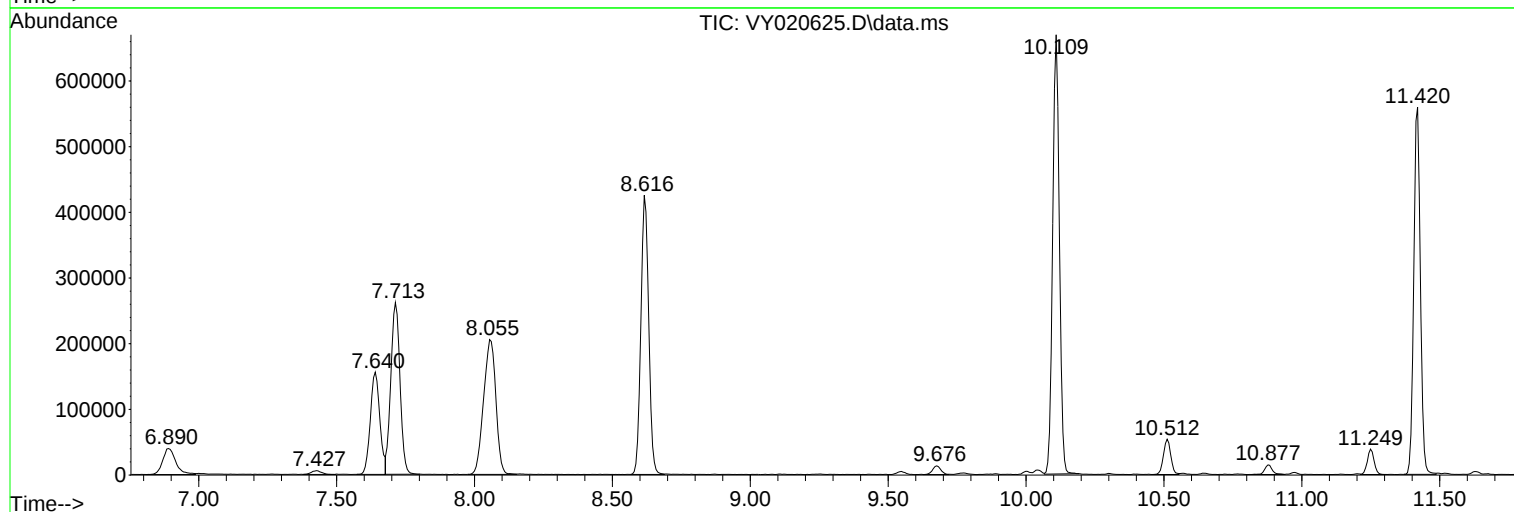
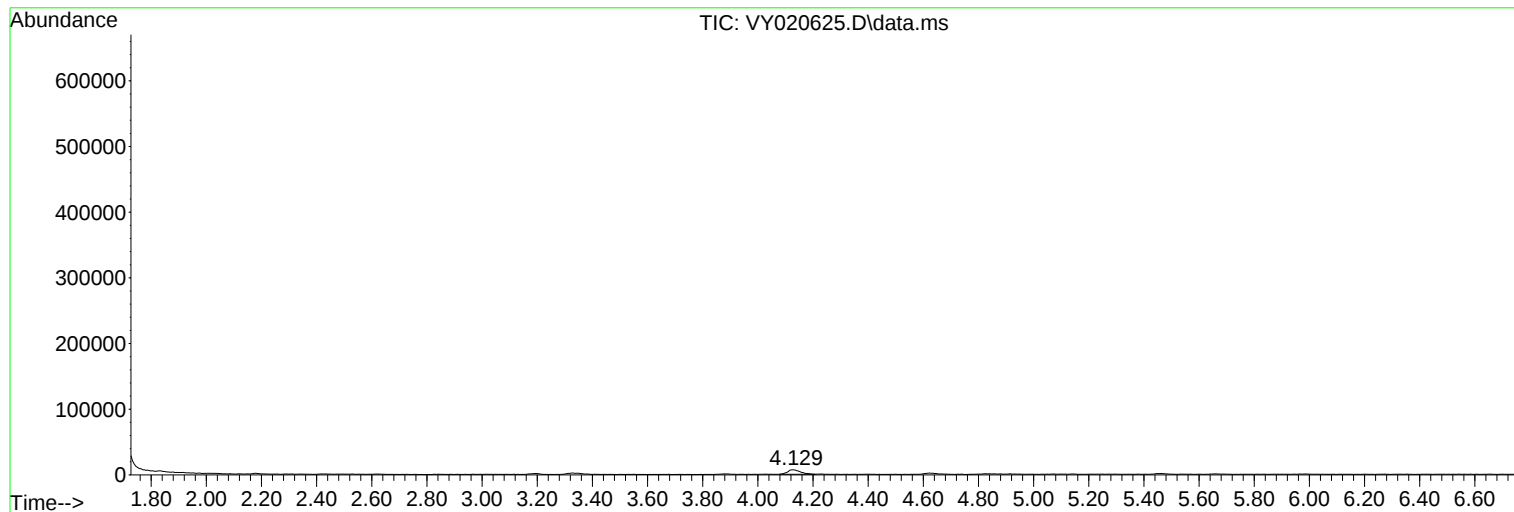
Sum of corrected areas: 6461693

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020625.D
Acq On : 18 Dec 2024 10:52
Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020625.D
Acq On : 18 Dec 2024 10:52
Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

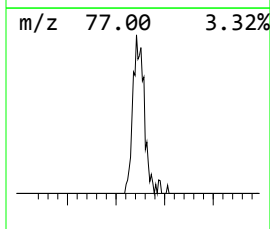
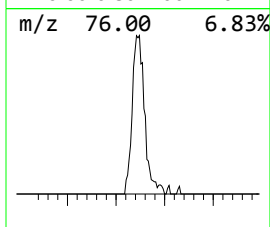
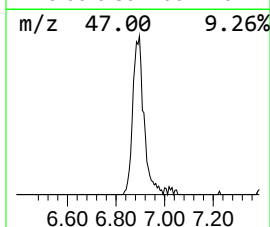
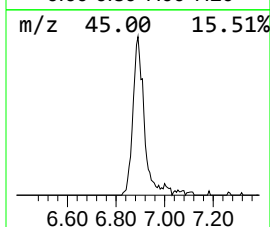
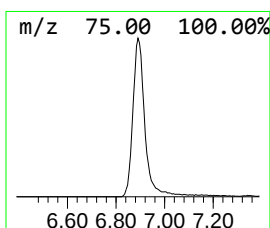
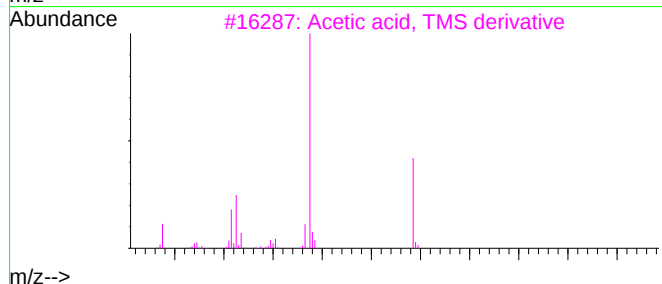
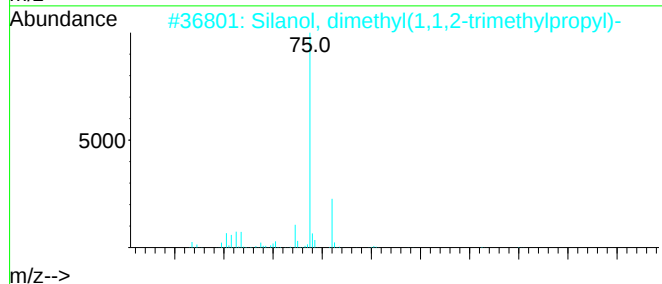
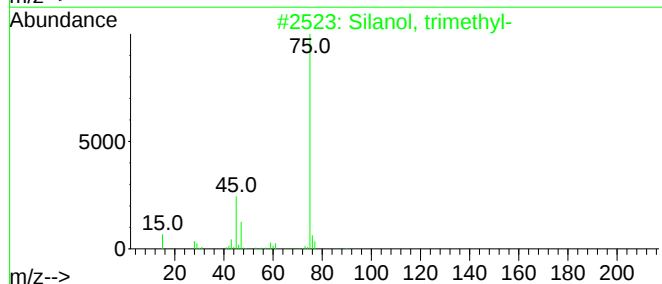
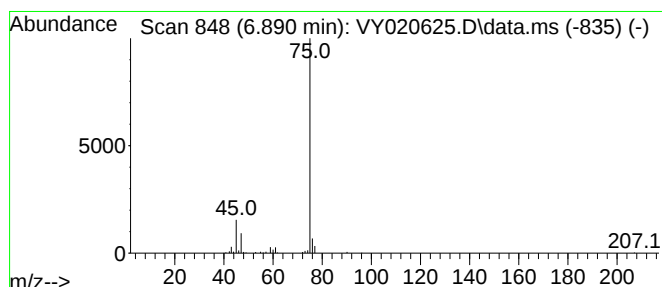
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

Peak Number 1 Silanol, trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.890	10.81 ug/l	130386	Pentafluorobenzene	7.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Silanol, trimethyl-	90	C3H10OSi	001066-40-6	91
2	Silanol, dimethyl(1,1,2-trimethy...	160	C8H20OSi	055644-10-5	78
3	Acetic acid, TMS derivative	132	C5H12O2Si	002754-27-0	78
4	2-Methylpropanoic acid, TBDMS de...	202	C10H22O2Si	111864-21-2	64
5	3-(Methylthio)-2-butanone	118	C5H10OS	053475-15-3	56



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020625.D
Acq On : 18 Dec 2024 10:52
Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

A

B

C

D

E

F

G

H

I

J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Silanol, trimet...	6.890	10.8	ug/l	130386	1	7.713	603053	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
 Data File : VY020626.D
 Acq On : 18 Dec 2024 11:19
 Operator : SY/MD
 Sample : VY1218SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1218SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
 Supervised By :Semsettin Yesilyurt 12/19/2024

Quant Time: Dec 18 14:21:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 18 05:27:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	167281	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	257615	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	226665	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	127451	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	88674	48.401	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	96.800%
35) Dibromofluoromethane	7.634	113	87767	48.340	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.680%
50) Toluene-d8	10.103	98	309318	48.674	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.340%
62) 4-Bromofluorobenzene	12.408	95	115004	46.263	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	92.520%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	40382	19.327	ug/l	99
3) Chloromethane	2.068	50	30252	19.541	ug/l	97
4) Vinyl Chloride	2.208	62	30090	20.882	ug/l	93
5) Bromomethane	2.592	94	17369	18.752	ug/l	94
6) Chloroethane	2.733	64	17918	20.123	ug/l	97
7) Trichlorofluoromethane	3.062	101	58469	19.392	ug/l	95
8) Diethyl Ether	3.452	74	18809	17.788	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	37241	17.232	ug/l	100
10) Methyl Iodide	4.007	142	41758	17.355	ug/l	100
11) Tert butyl alcohol	4.860	59	19583	78.568	ug/l	97
12) 1,1-Dichloroethene	3.787	96	35177	16.776	ug/l	99
13) Acrolein	3.653	56	8215	94.829	ug/l	94
14) Allyl chloride	4.385	41	69625	18.949	ug/l	99
15) Acrylonitrile	5.068	53	49364	97.584	ug/l	99
16) Acetone	3.873	43	29969	77.909	ug/l	98
17) Carbon Disulfide	4.110	76	119696	17.537	ug/l	99
18) Methyl Acetate	4.391	43	24523	19.673	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	107210	19.809	ug/l	95
20) Methylene Chloride	4.623	84	44364	19.476	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	44598	18.960	ug/l	96
22) Diisopropyl ether	6.019	45	148852	19.958	ug/l	95
23) Vinyl Acetate	5.964	43	416297	98.552	ug/l	99
24) 1,1-Dichloroethane	5.921	63	83933	19.210	ug/l	99
25) 2-Butanone	6.903	43	61848	90.838	ug/l	99
26) 2,2-Dichloropropane	6.890	77	71249	17.250	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	52075	19.243	ug/l	99
28) Bromochloromethane	7.244	49	25031	16.984	ug/l	99
29) Tetrahydrofuran	7.268	42	41982	97.675	ug/l	99
30) Chloroform	7.421	83	90485	17.145	ug/l	99
31) Cyclohexane	7.701	56	78663	18.829	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	77928	19.413	ug/l	99
36) 1,1-Dichloropropene	7.835	75	63989	19.328	ug/l	100
37) Ethyl Acetate	6.988	43	29965	19.242	ug/l	97
38) Carbon Tetrachloride	7.817	117	70634	19.284	ug/l	96
39) Methylcyclohexane	9.110	83	81692	18.932	ug/l	98
40) Benzene	8.079	78	189386	19.516	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
 Data File : VY020626.D
 Acq On : 18 Dec 2024 11:19
 Operator : SY/MD
 Sample : VY1218SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1218SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
 Supervised By :Semsettin Yesilyurt 12/19/2024

Quant Time: Dec 18 14:21:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 18 05:27:13 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	18878	22.930	ug/l #	81
42) 1,2-Dichloroethane	8.158	62	50543	19.638	ug/l	99
43) Isopropyl Acetate	8.195	43	58670	19.900	ug/l #	91
44) Trichloroethene	8.866	130	46211	19.380	ug/l	98
45) 1,2-Dichloropropane	9.140	63	44886	19.791	ug/l	96
46) Dibromomethane	9.231	93	23180	19.339	ug/l	100
47) Bromodichloromethane	9.420	83	62416	19.278	ug/l	98
48) Methyl methacrylate	9.219	41	27180	19.393	ug/l	99
49) 1,4-Dioxane	9.225	88	5652	411.180	ug/l	95
51) 4-Methyl-2-Pentanone	10.000	43	151100	97.097	ug/l	100
52) Toluene	10.170	92	116630	19.339	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	59203	19.624	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	69444	19.425	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	30990	19.556	ug/l	99
56) Ethyl methacrylate	10.439	69	45754	19.902	ug/l	99
57) 1,3-Dichloropropane	10.719	76	56163	19.881	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	95263	98.479	ug/l	99
59) 2-Hexanone	10.762	43	97879	97.964	ug/l	99
60) Dibromochloromethane	10.908	129	41648	19.651	ug/l	98
61) 1,2-Dibromoethane	11.018	107	29380	19.931	ug/l	99
64) Tetrachloroethene	10.646	164	39902	18.715	ug/l	97
65) Chlorobenzene	11.438	112	122617	19.347	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	42870	19.781	ug/l	98
67) Ethyl Benzene	11.518	91	226042	19.332	ug/l	99
68) m/p-Xylenes	11.627	106	166597	38.321	ug/l	99
69) o-Xylene	11.957	106	77614	19.134	ug/l	96
70) Styrene	11.969	104	131983	19.475	ug/l	99
71) Bromoform	12.133	173	24420	20.042	ug/l #	100
73) Isopropylbenzene	12.255	105	212024	19.063	ug/l	100
74) N-amyl acetate	12.072	43	50923	19.564	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	36238	20.073	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	26707m	20.172	ug/l	
77) Bromobenzene	12.536	156	46315	19.117	ug/l	97
78) n-propylbenzene	12.597	91	254635	19.003	ug/l	99
79) 2-Chlorotoluene	12.682	91	145409	19.287	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	172109	19.071	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	12641	20.041	ug/l	98
82) 4-Chlorotoluene	12.780	91	149033	19.054	ug/l	100
83) tert-Butylbenzene	12.999	119	154550	18.910	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	170656	19.278	ug/l	99
85) sec-Butylbenzene	13.176	105	224573	18.898	ug/l	100
86) p-Isopropyltoluene	13.292	119	184653	18.847	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	91457	19.123	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	89466	18.888	ug/l	98
89) n-Butylbenzene	13.621	91	175462	18.896	ug/l	100
90) Hexachloroethane	13.883	117	37311	19.216	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	80206	19.356	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5613	19.150	ug/l	98
93) 1,2,4-Trichlorobenzene	14.926	180	46722	18.641	ug/l	98
94) Hexachlorobutadiene	15.029	225	29648	18.095	ug/l	99
95) Naphthalene	15.145	128	83096	19.338	ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	39852	18.819	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020626.D
Acq On : 18 Dec 2024 11:19
Operator : SY/MD
Sample : VY1218SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBS01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

Quant Time: Dec 18 14:21:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

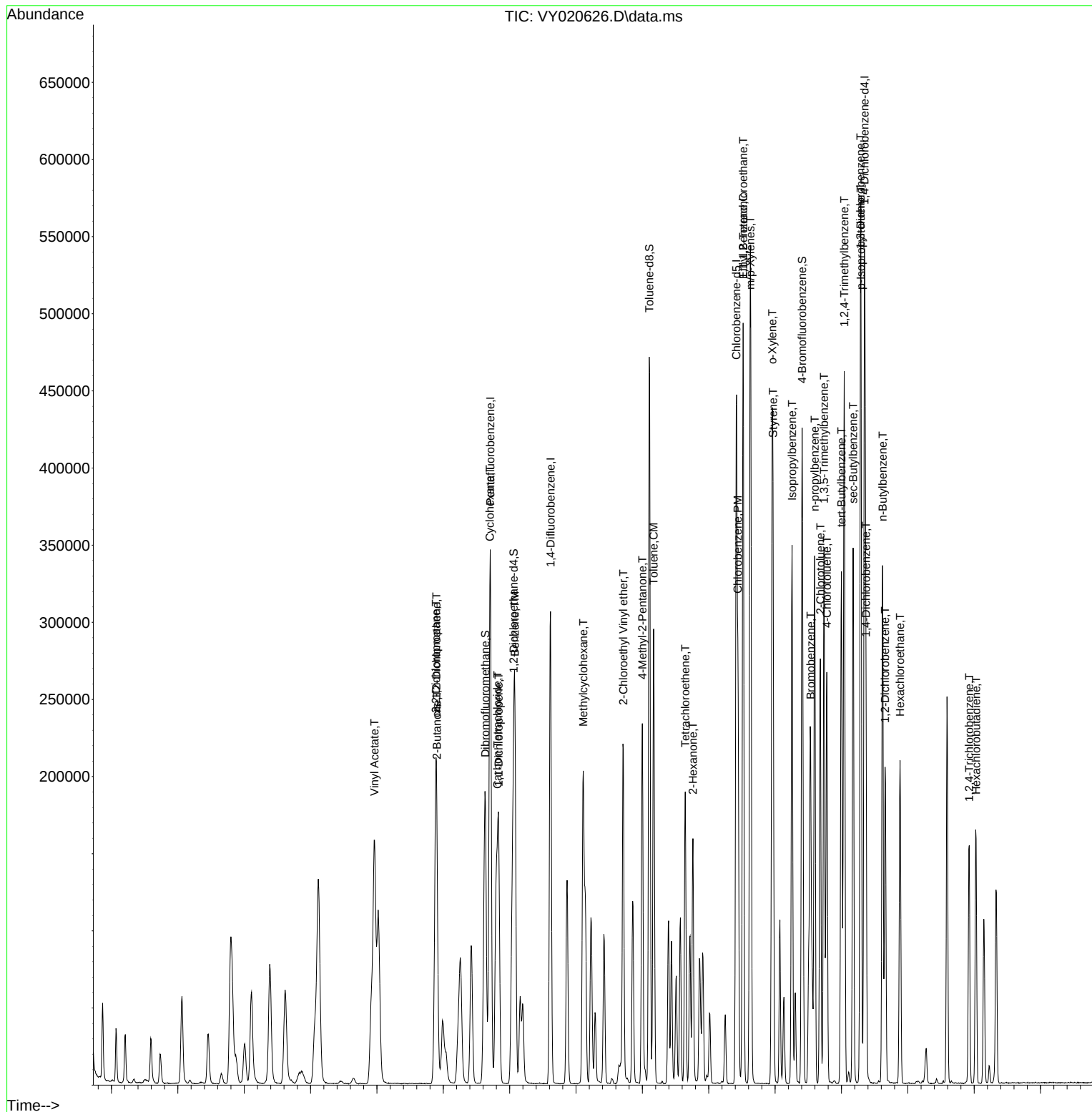
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
 Data File : VY020627.D
 Acq On : 18 Dec 2024 11:42
 Operator : SY/MD
 Sample : VY1218SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1218SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 12/19/2024
 Supervised By :Semsettin Yesilyurt 12/19/2024

Quant Time: Dec 18 14:21:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 18 05:27:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	153098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	244096	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	214944	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	120747	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	86732	51.726	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	103.460%
35) Dibromofluoromethane	7.634	113	86233	50.126	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.260%
50) Toluene-d8	10.103	98	310144	51.507	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	103.020%
62) 4-Bromofluorobenzene	12.402	95	113747	48.292	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	96.580%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	38435	20.099	ug/l	97
3) Chloromethane	2.074	50	26666	18.820	ug/l	98
4) Vinyl Chloride	2.208	62	25628	19.433	ug/l	95
5) Bromomethane	2.592	94	17707	20.888	ug/l	100
6) Chloroethane	2.739	64	16084	19.737	ug/l	100
7) Trichlorofluoromethane	3.062	101	54495	19.749	ug/l	97
8) Diethyl Ether	3.458	74	18841	19.469	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	38613	19.522	ug/l	100
10) Methyl Iodide	4.007	142	45735	20.769	ug/l	100
11) Tert butyl alcohol	4.860	59	18625	82.982	ug/l #	86
12) 1,1-Dichloroethene	3.793	96	36924	19.240	ug/l	96
13) Acrolein	3.659	56	8392	105.846	ug/l	98
14) Allyl chloride	4.385	41	71890	21.378	ug/l	99
15) Acrylonitrile	5.068	53	47243	102.042	ug/l	100
16) Acetone	3.873	43	32300	92.921	ug/l	95
17) Carbon Disulfide	4.104	76	128006	20.491	ug/l	99
18) Methyl Acetate	4.397	43	24304	21.304	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	105197	21.238	ug/l	99
20) Methylene Chloride	4.622	84	43686	20.955	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	43916	20.400	ug/l	96
22) Diisopropyl ether	6.019	45	148554	21.763	ug/l	95
23) Vinyl Acetate	5.964	43	408423	105.645	ug/l	99
24) 1,1-Dichloroethane	5.921	63	85392	21.354	ug/l	98
25) 2-Butanone	6.896	43	60654	97.337	ug/l	100
26) 2,2-Dichloropropane	6.890	77	70010	18.520	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	51600	20.834	ug/l	99
28) Bromochloromethane	7.250	49	24611	18.246	ug/l	100
29) Tetrahydrofuran	7.262	42	40544	103.068	ug/l	99
30) Chloroform	7.421	83	88937	18.850	ug/l	98
31) Cyclohexane	7.701	56	76241	19.940	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	76355	20.784	ug/l	100
36) 1,1-Dichloropropene	7.835	75	62499	19.924	ug/l	99
37) Ethyl Acetate	6.988	43	28092	19.038	ug/l	99
38) Carbon Tetrachloride	7.817	117	69992	20.167	ug/l	95
39) Methylcyclohexane	9.110	83	79720	19.499	ug/l	98
40) Benzene	8.079	78	190548	20.723	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
 Data File : VY020627.D
 Acq On : 18 Dec 2024 11:42
 Operator : SY/MD
 Sample : VY1218SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1218SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 12/19/2024
 Supervised By :Semsettin Yesilyurt 12/19/2024

Quant Time: Dec 18 14:21:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 18 05:27:13 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	15591	19.986	ug/l #	92
42) 1,2-Dichloroethane	8.158	62	50556	20.731	ug/l	100
43) Isopropyl Acetate	8.201	43	56566	20.249	ug/l #	88
44) Trichloroethene	8.866	130	46762	20.697	ug/l	94
45) 1,2-Dichloropropane	9.140	63	44913	20.900	ug/l	93
46) Dibromomethane	9.231	93	23137	20.372	ug/l	99
47) Bromodichloromethane	9.420	83	64097	20.894	ug/l	96
48) Methyl methacrylate	9.219	41	26036	19.605	ug/l	97
49) 1,4-Dioxane	9.231	88	4955	380.438	ug/l #	96
51) 4-Methyl-2-Pentanone	9.993	43	143998	97.658	ug/l	100
52) Toluene	10.170	92	116834	20.446	ug/l	97
53) t-1,3-Dichloropropene	10.396	75	59267	20.733	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	69750	20.591	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	31492	20.973	ug/l	99
56) Ethyl methacrylate	10.439	69	44249	20.313	ug/l	99
57) 1,3-Dichloropropane	10.719	76	55078	20.577	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	96709	105.511	ug/l	100
59) 2-Hexanone	10.762	43	93397	98.655	ug/l	100
60) Dibromochloromethane	10.908	129	41457	20.645	ug/l	97
61) 1,2-Dibromoethane	11.012	107	28993	20.758	ug/l	100
64) Tetrachloroethene	10.646	164	40481	20.022	ug/l	92
65) Chlorobenzene	11.438	112	122990	20.464	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.512	131	44028	21.424	ug/l	100
67) Ethyl Benzene	11.518	91	224839	20.278	ug/l	99
68) m/p-Xylenes	11.627	106	167194	40.556	ug/l	100
69) o-Xylene	11.957	106	79188	20.587	ug/l	99
70) Styrene	11.969	104	134103	20.867	ug/l	99
71) Bromoform	12.133	173	23868	20.657	ug/l #	100
73) Isopropylbenzene	12.255	105	212192	20.138	ug/l	100
74) N-ethyl acetate	12.066	43	49369	20.020	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	35934	21.009	ug/l	96
76) 1,2,3-Trichloropropane	12.554	75	25214m	20.102	ug/l	
77) Bromobenzene	12.530	156	47727	20.794	ug/l	98
78) n-propylbenzene	12.597	91	256750	20.224	ug/l	100
79) 2-Chlorotoluene	12.676	91	145869	20.423	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	174821	20.447	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	11485	19.219	ug/l	98
82) 4-Chlorotoluene	12.780	91	152691	20.606	ug/l	99
83) tert-Butylbenzene	12.999	119	159815	20.640	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	171781	20.483	ug/l	99
85) sec-Butylbenzene	13.176	105	227197	20.180	ug/l	100
86) p-Isopropyltoluene	13.292	119	188392	20.296	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	91586	20.214	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	91045	20.289	ug/l	98
89) n-Butylbenzene	13.621	91	174537	19.840	ug/l	99
90) Hexachloroethane	13.883	117	37017	20.123	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	81563	20.777	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5446	19.612	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	47095	19.833	ug/l	99
94) Hexachlorobutadiene	15.023	225	30799	19.841	ug/l	99
95) Naphthalene	15.145	128	81118	19.926	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	40302	20.088	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020627.D
Acq On : 18 Dec 2024 11:42
Operator : SY/MD
Sample : VY1218SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBSD01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

Quant Time: Dec 18 14:21:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

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

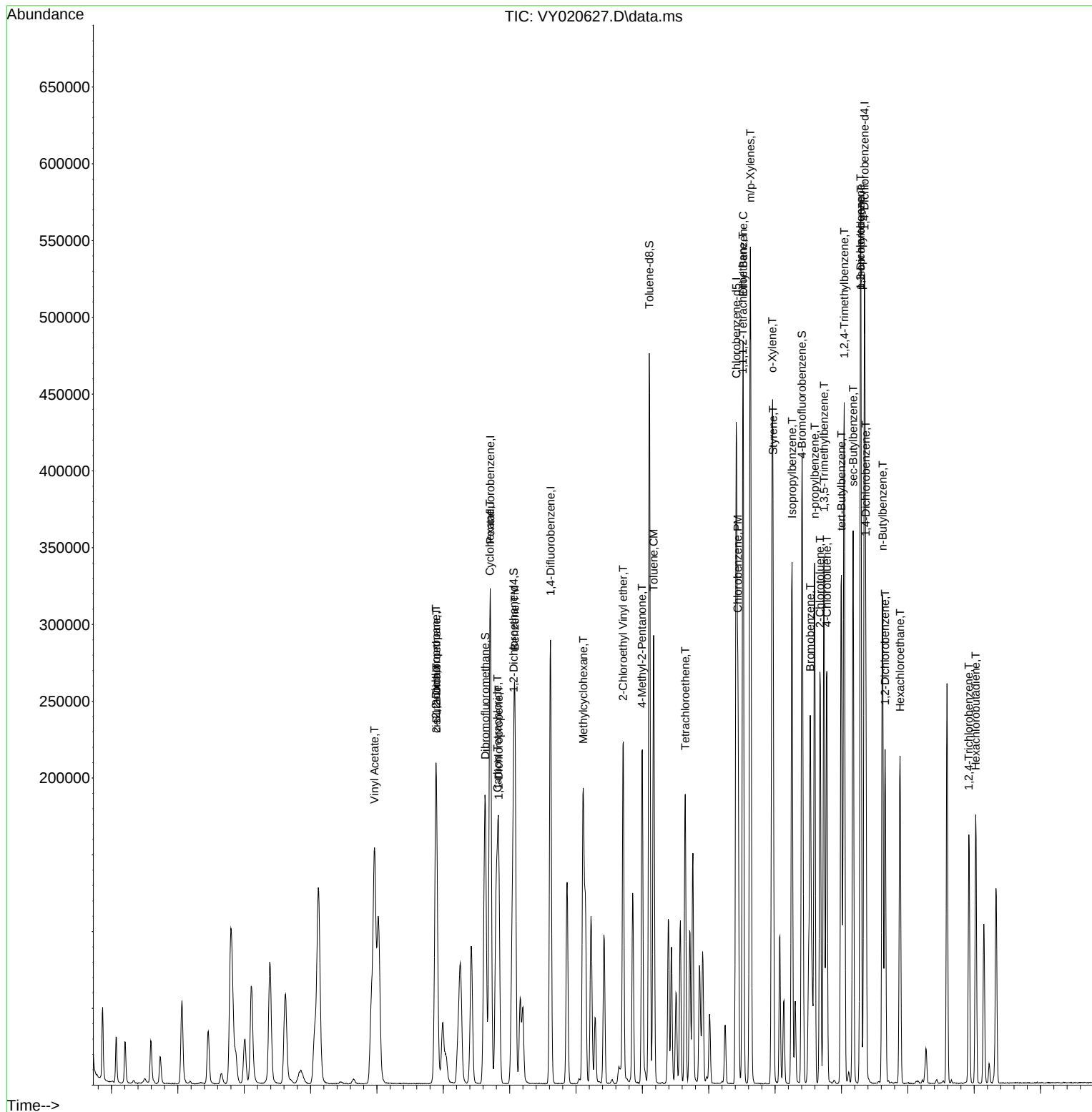
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
 Data File : VY020627.D
 Acq On : 18 Dec 2024 11:42
 Operator : SY/MD
 Sample : VY1218SBSD01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1218SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
 Supervised By :Semsettin Yesilyurt 12/19/2024

Quant Time: Dec 18 14:21:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 18 05:27:13 2024
 Response via : Initial Calibration



Manual Integration Report

Sequence:	VY121724	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC010	VY020613.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:29 AM	SAM	12/18/2024 8:50:42 AM	Peak Integrated by Software
VSTDICC020	VY020614.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:31 AM	SAM	12/18/2024 8:50:43 AM	Peak Integrated by Software
VSTDICCC050	VY020615.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:34 AM	SAM	12/18/2024 8:50:47 AM	Peak Integrated by Software
VSTDICC100	VY020616.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:37 AM	SAM	12/18/2024 8:50:48 AM	Peak Integrated by Software
VSTDICC150	VY020617.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:38 AM	SAM	12/18/2024 8:50:50 AM	Peak Integrated by Software
VSTDICC005	VY020619.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:41 AM	SAM	12/18/2024 8:50:52 AM	Peak Integrated by Software
VSTDICC005	VY020619.D	Methacrylonitrile	MMDadoda	12/18/2024 8:36:41 AM	SAM	12/18/2024 8:50:52 AM	Peak Integrated by Software
VSTDICV050	VY020620.D	1,2,3-Trichloropropane	Romaben	12/18/2024 8:31:07 AM	MMDadoda	12/18/2024 8:36:43 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY121824

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VY020623.D	1,2,3-Trichloropropane	Romaben	12/19/2024 9:18:44 AM	SAM	12/19/2024 2:49:07 PM	Peak Integrated by Software
VSTDCCC050	VY020624.D	1,2,3-Trichloropropane	Romaben	12/19/2024 9:18:47 AM	SAM	12/19/2024 2:49:08 PM	Peak Integrated by Software
VY1218SBS01	VY020626.D	1,2,3-Trichloropropane	Romaben	12/19/2024 9:18:51 AM	SAM	12/19/2024 2:49:10 PM	Peak Integrated by Software
VY1218SBSD0 1	VY020627.D	1,2,3-Trichloropropane	Romaben	12/19/2024 9:18:54 AM	SAM	12/19/2024 2:49:10 PM	Peak Integrated by Software
VSTDCCC050	VY020643.D	1,2,3-Trichloropropane	Romaben	12/19/2024 9:18:40 AM	SAM	12/19/2024 2:49:13 PM	Peak Integrated by Software

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY121724

Review By	Mahesh Dadoda	Review On	12/18/2024 8:38:34 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:51:04 AM
SubDirectory	VY121724	HP Acquire Method	HP Processing Method 82y121724s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP132182		
Initial Calibration Stds	VP132183,VP132184,VP132185,VP132186,VP132187,VP132188		
CCC			
Internal Standard/PEM	VP131783		
ICV/I.BLK	VP132189		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020611.D	17 Dec 2024 09:00	SY/MD	Ok
2	VSTDIC005	VY020612.D	17 Dec 2024 09:38	SY/MD	Ok
3	VSTDIC010	VY020613.D	17 Dec 2024 10:01	SY/MD	Ok,M
4	VSTDIC020	VY020614.D	17 Dec 2024 10:23	SY/MD	Ok,M
5	VSTDIC050	VY020615.D	17 Dec 2024 10:51	SY/MD	Ok,M
6	VSTDIC100	VY020616.D	17 Dec 2024 11:14	SY/MD	Ok,M
7	VSTDIC150	VY020617.D	17 Dec 2024 11:37	SY/MD	Ok,M
8	VIBLK	VY020618.D	17 Dec 2024 12:24	SY/MD	Ok
9	VSTDIC005	VY020619.D	17 Dec 2024 14:51	SY/MD	Ok,M
10	VSTDICV050	VY020620.D	17 Dec 2024 17:41	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY121824

Review By	Mahesh Dadoda	Review On	12/19/2024 2:48:41 PM
Supervise By	Semsettin Yesilyurt	Supervise On	12/19/2024 2:49:14 PM
SubDirectory	VY121824	HP Acquire Method	HP Processing Method 82y121724s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132202		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132203,VP132204 VP131783		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020622.D	18 Dec 2024 08:46	SY/MD	Ok
2	VSTDICV050	VY020623.D	18 Dec 2024 09:43	SY/MD	Ok,M
3	VSTDCCC050	VY020624.D	18 Dec 2024 10:06	SY/MD	Ok,M
4	VY1218SBL01	VY020625.D	18 Dec 2024 10:52	SY/MD	Ok
5	VY1218SBS01	VY020626.D	18 Dec 2024 11:19	SY/MD	Ok,M
6	VY1218SBSD01	VY020627.D	18 Dec 2024 11:42	SY/MD	Ok,M
7	P5277-01	VY020628.D	18 Dec 2024 12:05	SY/MD	Not Ok
8	P5277-02	VY020629.D	18 Dec 2024 12:33	SY/MD	Ok
9	P5277-03	VY020630.D	18 Dec 2024 12:57	SY/MD	Ok
10	P5287-01	VY020631.D	18 Dec 2024 13:20	SY/MD	Ok
11	P5287-03	VY020632.D	18 Dec 2024 13:44	SY/MD	Ok
12	P5312-03	VY020633.D	18 Dec 2024 14:07	SY/MD	ReRun
13	P5312-01	VY020634.D	18 Dec 2024 14:30	SY/MD	ReRun
14	P5299-04	VY020635.D	18 Dec 2024 14:54	SY/MD	Ok
15	P5301-03	VY020636.D	18 Dec 2024 15:17	SY/MD	ReRun
16	P5277-02	VY020637.D	18 Dec 2024 15:41	SY/MD	Not Ok
17	P5301-01	VY020638.D	18 Dec 2024 16:04	SY/MD	Ok
18	P5299-02	VY020639.D	18 Dec 2024 16:27	SY/MD	Ok
19	P5299-03	VY020640.D	18 Dec 2024 16:51	SY/MD	Ok
20	P5279-03	VY020641.D	18 Dec 2024 17:14	SY/MD	Not Ok
21	P5299-01	VY020642.D	18 Dec 2024 17:38	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY121824

Review By	Mahesh Dadoda	Review On	12/19/2024 2:48:41 PM
Supervise By	Semsettin Yesilyurt	Supervise On	12/19/2024 2:49:14 PM
SubDirectory	VY121824	HP Acquire Method	HP Processing Method 82y121724s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132202		
CCC	VP132203,VP132204		
Internal Standard/PEM	VP131783		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	VSTDCCC050	VY020643.D	18 Dec 2024 18:00	SY/MD	Ok,M
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M : Manual Integration

A
B
C
D
E
F
G
H
I
J

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY121724

Review By	Maresh Dadoda	Review On	12/18/2024 8:38:34 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:51:04 AM
SubDirectory	VY121724	HP Acquire Method	HP Processing Method 82y121724s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP132182		
Initial Calibration Stds	VP132183,VP132184,VP132185,VP132186,VP132187,VP132188		
CCC			
Internal Standard/PEM	VP131783		
ICV/I.BLK	VP132189		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020611.D	17 Dec 2024 09:00		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020612.D	17 Dec 2024 09:38		SY/MD	Ok
3	VSTDICC010	VSTDICC010	VY020613.D	17 Dec 2024 10:01	Com #16,30 on LR	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020614.D	17 Dec 2024 10:23	Com #11 on QR	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020615.D	17 Dec 2024 10:51	Com #13 fail for method	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020616.D	17 Dec 2024 11:14		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020617.D	17 Dec 2024 11:37		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020618.D	17 Dec 2024 12:24		SY/MD	Ok
9	VSTDICC005	VSTDICC005	VY020619.D	17 Dec 2024 14:51	%D fail for com #11	SY/MD	Ok,M
10	VSTDICV050	ICVVY121724	VY020620.D	17 Dec 2024 17:41	ICV fail for com #11,16	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY121824

Review By	Maresh Dadoda	Review On	12/19/2024 2:48:41 PM
Supervise By	Semsettin Yesilyurt	Supervise On	12/19/2024 2:49:14 PM
SubDirectory	VY121824	HP Acquire Method	HP Processing Method 82y121724s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132202		
CCC	VP132203,VP132204		
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	VY020622.D	18 Dec 2024 08:46		SY/MD	Ok
2	VSTDICV050	ICVVY121824	VY020623.D	18 Dec 2024 09:43		SY/MD	Ok,M
3	VSTDCCC050	VSTDCCC050	VY020624.D	18 Dec 2024 10:06		SY/MD	Ok,M
4	VY1218SBL01	VY1218SBL01	VY020625.D	18 Dec 2024 10:52		SY/MD	Ok
5	VY1218SBS01	VY1218SBS01	VY020626.D	18 Dec 2024 11:19		SY/MD	Ok,M
6	VY1218SBSD01	VY1218SBSD01	VY020627.D	18 Dec 2024 11:42		SY/MD	Ok,M
7	P5277-01	COMP-1A	VY020628.D	18 Dec 2024 12:05	vial-A Not purged	SY/MD	Not Ok
8	P5277-02	COMP-2A	VY020629.D	18 Dec 2024 12:33	vial-A	SY/MD	Ok
9	P5277-03	COMP-3A	VY020630.D	18 Dec 2024 12:57	vial-A	SY/MD	Ok
10	P5287-01	STONES-A	VY020631.D	18 Dec 2024 13:20	vial-A	SY/MD	Ok
11	P5287-03	STONES-B	VY020632.D	18 Dec 2024 13:44	vial-A	SY/MD	Ok
12	P5312-03	CONCRETE-VNJ-222	VY020633.D	18 Dec 2024 14:07	vial-A Surrogate Fail	SY/MD	ReRun
13	P5312-01	SOIL-VNJ-222	VY020634.D	18 Dec 2024 14:30	vial-A Internal Standard Fail	SY/MD	ReRun
14	P5299-04	SB-02	VY020635.D	18 Dec 2024 14:54	vial-A	SY/MD	Ok
15	P5301-03	HR-04-121624	VY020636.D	18 Dec 2024 15:17	vial-A Internal Standard Fail	SY/MD	ReRun
16	P5277-02	COMP-2A	VY020637.D	18 Dec 2024 15:41	vial-B NOT PURGE	SY/MD	Not Ok
17	P5301-01	HR-01-121624	VY020638.D	18 Dec 2024 16:04	vial-B	SY/MD	Ok
18	P5299-02	SB-02	VY020639.D	18 Dec 2024 16:27	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY121824

Review By	Maresh Dadoda	Review On	12/19/2024 2:48:41 PM
Supervise By	Semsettin Yesilyurt	Supervise On	12/19/2024 2:49:14 PM
SubDirectory	VY121824	HP Acquire Method	HP Processing Method 82y121724s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132202		
CCC	VP132203,VP132204		
Internal Standard/PEM	VP131783		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P5299-03	SB-01	VY020640.D	18 Dec 2024 16:51	vial-A	SY/MD	Ok
20	P5279-03	ROCKAWAY-PARK	VY020641.D	18 Dec 2024 17:14	vial-A NOT PURGE	SY/MD	Not Ok
21	P5299-01	SB-01	VY020642.D	18 Dec 2024 17:38	vial-A	SY/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VY020643.D	18 Dec 2024 18:00		SY/MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	P5299	OrderDate:	12/16/2024 12:24:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5299-01	SB-01	SOIL	VOC-TCLVOA-10	8260D	12/14/24		12/18/24	12/16/24
P5299-02	SB-02	SOIL	VOC-TCLVOA-10	8260D	12/15/24		12/18/24	12/16/24
P5299-03	SB-01	SOIL	VOC-TCLVOA-10	8260D	12/15/24		12/18/24	12/16/24
P5299-04	SB-02	SOIL	VOC-TCLVOA-10	8260D	12/15/24		12/18/24	12/16/24