



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

SDG No.: P4663

Client: Union Paving & Construction Company

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: P4663-05	RES-BUILDING-PAD-NO-3 RES-BUILDING-P/ SOIL		Methylene Chloride	4.90	J	2.60	7.70	ug/Kg
			Total Voc :	4.90				
			Total Concentration:	4.90				



SAMPLE DATA

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE		SDG No.:	P4663	
Lab Sample ID:	P4663-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	91	
Sample Wt/Vol:	6.74	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020128.D	1		11/01/24 18:41	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.10	ug/Kg
74-87-3	Chloromethane	0.95	U	0.95	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.63	U	0.63	4.10	ug/Kg
74-83-9	Bromomethane	0.84	U	0.84	4.10	ug/Kg
75-00-3	Chloroethane	0.82	U	0.82	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.74	U	0.74	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.64	U	0.64	4.10	ug/Kg
67-64-1	Acetone	5.10	U	5.10	20.4	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.55	U	0.55	4.10	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.10	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	8.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.51	U	0.51	4.10	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	4.10	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	20.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.71	U	0.71	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	4.10	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.10	ug/Kg
67-66-3	Chloroform	0.55	U	0.55	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.64	U	0.64	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.71	U	0.71	4.10	ug/Kg
71-43-2	Benzene	0.59	U	0.59	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.50	U	0.50	4.10	ug/Kg
79-01-6	Trichloroethene	0.61	U	0.61	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.54	U	0.54	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.46	U	0.46	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	20.4	ug/Kg
108-88-3	Toluene	0.55	U	0.55	4.10	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE		SDG No.:	P4663	
Lab Sample ID:	P4663-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	91	
Sample Wt/Vol:	6.74	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020128.D	1		11/01/24 18:41	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.49	U	0.49	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	4.10	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	20.4	ug/Kg
124-48-1	Dibromochloromethane	0.53	U	0.53	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.64	U	0.64	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.73	U	0.73	4.10	ug/Kg
108-90-7	Chlorobenzene	0.60	U	0.60	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.51	U	0.51	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.20	ug/Kg
95-47-6	o-Xylene	0.57	U	0.57	4.10	ug/Kg
100-42-5	Styrene	0.49	U	0.49	4.10	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.55	U	0.55	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.90	U	0.90	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.60	U	0.60	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.65	U	0.65	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.48	U	0.48	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.64	U	0.64	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.64	U	0.64	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.2		70 (50) - 130 (163)	122%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		70 (54) - 130 (147)	108%	SPK: 50
2037-26-5	Toluene-d8	49.2		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		70 (29) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.707			
540-36-3	1,4-Difluorobenzene	339000	8.616			
3114-55-4	Chlorobenzene-d5	325000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.347			

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE		SDG No.:	P4663	
Lab Sample ID:	P4663-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	91	
Sample Wt/Vol:	6.74	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020128.D	1		11/01/24 18:41	VY110124

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.9
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020129.D	1		11/01/24 19:04	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.40	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.40	ug/Kg
75-01-4	Vinyl Chloride	0.67	U	0.67	4.40	ug/Kg
74-83-9	Bromomethane	0.90	U	0.90	4.40	ug/Kg
75-00-3	Chloroethane	0.88	U	0.88	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	0.79	U	0.79	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.93	U	0.93	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.68	U	0.68	4.40	ug/Kg
67-64-1	Acetone	5.40	U	5.40	21.8	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.40	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	4.40	ug/Kg
75-09-2	Methylene Chloride	3.00	U	3.00	8.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.73	U	0.73	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.55	U	0.55	4.40	ug/Kg
110-82-7	Cyclohexane	0.60	U	0.60	4.40	ug/Kg
78-93-3	2-Butanone	4.90	U	4.90	21.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.76	U	0.76	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.53	U	0.53	4.40	ug/Kg
74-97-5	Bromochloromethane	2.10	U	2.10	4.40	ug/Kg
67-66-3	Chloroform	0.58	U	0.58	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.68	U	0.68	4.40	ug/Kg
108-87-2	Methylcyclohexane	0.76	U	0.76	4.40	ug/Kg
71-43-2	Benzene	0.63	U	0.63	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.53	U	0.53	4.40	ug/Kg
79-01-6	Trichloroethene	0.65	U	0.65	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.57	U	0.57	4.40	ug/Kg
75-27-4	Bromodichloromethane	0.49	U	0.49	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	21.8	ug/Kg
108-88-3	Toluene	0.58	U	0.58	4.40	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.9
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020129.D	1		11/01/24 19:04	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	4.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.73	U	0.73	4.40	ug/Kg
591-78-6	2-Hexanone	4.20	U	4.20	21.8	ug/Kg
124-48-1	Dibromochloromethane	0.57	U	0.57	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.69	U	0.69	4.40	ug/Kg
127-18-4	Tetrachloroethene	0.77	U	0.77	4.40	ug/Kg
108-90-7	Chlorobenzene	0.64	U	0.64	4.40	ug/Kg
100-41-4	Ethyl Benzene	0.54	U	0.54	4.40	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	8.70	ug/Kg
95-47-6	o-Xylene	0.61	U	0.61	4.40	ug/Kg
100-42-5	Styrene	0.52	U	0.52	4.40	ug/Kg
75-25-2	Bromoform	0.71	U	0.71	4.40	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	4.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.96	U	0.96	4.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.64	U	0.64	4.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.70	U	0.70	4.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.51	U	0.51	4.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	4.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.69	U	0.69	4.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.68	U	0.68	4.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (54) - 130 (147)	104%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		70 (29) - 130 (146)	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	7.713			
540-36-3	1,4-Difluorobenzene	345000	8.609			
3114-55-4	Chlorobenzene-d5	310000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	105000	13.346			

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	RES-BUILDING-PAD-NO-11		SDG No.:	P4663	
Lab Sample ID:	P4663-03		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	91.9	
Sample Wt/Vol:	6.25	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020129.D	1		11/01/24 19:04	VY110124

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:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	RES-BUILDING-PAD-NO-3		SDG No.:	P4663	
Lab Sample ID:	P4663-05		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	90.5	
Sample Wt/Vol:	7.16	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020130.D	1		11/01/24 19:27	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	3.90	ug/Kg
74-87-3	Chloromethane	0.90	U	0.90	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.59	U	0.59	3.90	ug/Kg
74-83-9	Bromomethane	0.79	U	0.79	3.90	ug/Kg
75-00-3	Chloroethane	0.78	U	0.78	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.70	U	0.70	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.83	U	0.83	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.60	U	0.60	3.90	ug/Kg
67-64-1	Acetone	4.80	U	4.80	19.3	ug/Kg
75-15-0	Carbon Disulfide	0.99	U	0.99	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.52	U	0.52	3.90	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	3.90	ug/Kg
75-09-2	Methylene Chloride	4.90	J	2.60	7.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.65	U	0.65	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.49	U	0.49	3.90	ug/Kg
110-82-7	Cyclohexane	0.53	U	0.53	3.90	ug/Kg
78-93-3	2-Butanone	4.40	U	4.40	19.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.67	U	0.67	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.47	U	0.47	3.90	ug/Kg
74-97-5	Bromochloromethane	1.90	U	1.90	3.90	ug/Kg
67-66-3	Chloroform	0.52	U	0.52	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.60	U	0.60	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.67	U	0.67	3.90	ug/Kg
71-43-2	Benzene	0.56	U	0.56	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.47	U	0.47	3.90	ug/Kg
79-01-6	Trichloroethene	0.58	U	0.58	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.51	U	0.51	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.43	U	0.43	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	19.3	ug/Kg
108-88-3	Toluene	0.52	U	0.52	3.90	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	RES-BUILDING-PAD-NO-3		SDG No.:	P4663	
Lab Sample ID:	P4663-05		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	90.5	
Sample Wt/Vol:	7.16	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020130.D	1		11/01/24 19:27	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.46	U	0.46	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.44	U	0.44	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.65	U	0.65	3.90	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	19.3	ug/Kg
124-48-1	Dibromochloromethane	0.50	U	0.50	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.61	U	0.61	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.69	U	0.69	3.90	ug/Kg
108-90-7	Chlorobenzene	0.57	U	0.57	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.48	U	0.48	3.90	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	7.70	ug/Kg
95-47-6	o-Xylene	0.54	U	0.54	3.90	ug/Kg
100-42-5	Styrene	0.46	U	0.46	3.90	ug/Kg
75-25-2	Bromoform	0.63	U	0.63	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.52	U	0.52	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.85	U	0.85	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.57	U	0.57	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.62	U	0.62	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.46	U	0.46	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.20	U	1.20	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.61	U	0.61	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.60	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		70 (29) - 130 (146)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.707			
540-36-3	1,4-Difluorobenzene	335000	8.616			
3114-55-4	Chlorobenzene-d5	302000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	104000	13.346			

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	RES-BUILDING-PAD-NO-3		SDG No.:	P4663	
Lab Sample ID:	P4663-05		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	90.5	
Sample Wt/Vol:	7.16	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020130.D	1		11/01/24 19:27	VY110124

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:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	RES-BUILDING-PAD-NO-2		SDG No.:	P4663	
Lab Sample ID:	P4663-07		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	85.7	
Sample Wt/Vol:	6.06	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020124.D	1		11/01/24 17:07	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	4.80	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.80	ug/Kg
75-01-4	Vinyl Chloride	0.74	U	0.74	4.80	ug/Kg
74-83-9	Bromomethane	0.99	U	0.99	4.80	ug/Kg
75-00-3	Chloroethane	0.97	U	0.97	4.80	ug/Kg
75-69-4	Trichlorofluoromethane	0.88	U	0.88	4.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.75	U	0.75	4.80	ug/Kg
67-64-1	Acetone	6.00	U	6.00	24.1	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.65	U	0.65	4.80	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	4.80	ug/Kg
75-09-2	Methylene Chloride	3.30	U	3.30	9.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.81	U	0.81	4.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.61	U	0.61	4.80	ug/Kg
110-82-7	Cyclohexane	0.66	U	0.66	4.80	ug/Kg
78-93-3	2-Butanone	5.50	U	5.50	24.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.84	U	0.84	4.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.59	U	0.59	4.80	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	4.80	ug/Kg
67-66-3	Chloroform	0.65	U	0.65	4.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.75	U	0.75	4.80	ug/Kg
108-87-2	Methylcyclohexane	0.84	U	0.84	4.80	ug/Kg
71-43-2	Benzene	0.69	U	0.69	4.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.59	U	0.59	4.80	ug/Kg
79-01-6	Trichloroethene	0.72	U	0.72	4.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.64	U	0.64	4.80	ug/Kg
75-27-4	Bromodichloromethane	0.54	U	0.54	4.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	24.1	ug/Kg
108-88-3	Toluene	0.65	U	0.65	4.80	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	RES-BUILDING-PAD-NO-2		SDG No.:	P4663	
Lab Sample ID:	P4663-07		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	85.7	
Sample Wt/Vol:	6.06	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020124.D	1		11/01/24 17:07	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.58	U	0.58	4.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.55	U	0.55	4.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.81	U	0.81	4.80	ug/Kg
591-78-6	2-Hexanone	4.60	U	4.60	24.1	ug/Kg
124-48-1	Dibromochloromethane	0.63	U	0.63	4.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.80	ug/Kg
127-18-4	Tetrachloroethene	0.86	U	0.86	4.80	ug/Kg
108-90-7	Chlorobenzene	0.71	U	0.71	4.80	ug/Kg
100-41-4	Ethyl Benzene	0.60	U	0.60	4.80	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.60	ug/Kg
95-47-6	o-Xylene	0.67	U	0.67	4.80	ug/Kg
100-42-5	Styrene	0.58	U	0.58	4.80	ug/Kg
75-25-2	Bromoform	0.78	U	0.78	4.80	ug/Kg
98-82-8	Isopropylbenzene	0.65	U	0.65	4.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.71	U	0.71	4.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.77	U	0.77	4.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.57	U	0.57	4.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.76	U	0.76	4.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.75	4.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.0		70 (50) - 130 (163)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		70 (54) - 130 (147)	106%	SPK: 50
2037-26-5	Toluene-d8	49.9		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (29) - 130 (146)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	169000	7.707			
540-36-3	1,4-Difluorobenzene	354000	8.616			
3114-55-4	Chlorobenzene-d5	335000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	125000	13.346			

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	RES-BUILDING-PAD-NO-2		SDG No.:	P4663	
Lab Sample ID:	P4663-07		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	85.7	
Sample Wt/Vol:	6.06	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020124.D	1		11/01/24 17:07	VY110124

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



QC SUMMARY

Surrogate Summary

SDG No.: **P4663**

Client: **Union Paving & Construction Company**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4663-01	TENNANT-PAD-2-3-STOCKPILE	1,2-Dichloroethane-d4	50	61.2	122	70 (50)	130 (163)
		Dibromofluoromethane	50	53.8	108	70 (54)	130 (147)
		Toluene-d8	50	49.2	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.7	95	70 (29)	130 (146)
P4663-03	RES-BUILDING-PAD-NO-11	1,2-Dichloroethane-d4	50	56.9	114	70 (50)	130 (163)
		Dibromofluoromethane	50	51.8	104	70 (54)	130 (147)
		Toluene-d8	50	48.8	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.0	88	70 (29)	130 (146)
P4663-05	RES-BUILDING-PAD-NO-3	1,2-Dichloroethane-d4	50	56.9	114	70 (50)	130 (163)
		Dibromofluoromethane	50	51.4	103	70 (54)	130 (147)
		Toluene-d8	50	49.7	99	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.3	89	70 (29)	130 (146)
P4663-07	RES-BUILDING-PAD-NO-2	1,2-Dichloroethane-d4	50	60.0	120	70 (50)	130 (163)
		Dibromofluoromethane	50	53.1	106	70 (54)	130 (147)
		Toluene-d8	50	49.9	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	48.7	97	70 (29)	130 (146)
VY1101SBL01	VY1101SBL01	1,2-Dichloroethane-d4	50	57.4	115	70 (50)	130 (163)
		Dibromofluoromethane	50	51.6	103	70 (54)	130 (147)
		Toluene-d8	50	48.9	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.3	89	70 (29)	130 (146)
VY1101SBS01	VY1101SBS01	1,2-Dichloroethane-d4	50	59.4	119	70 (50)	130 (163)
		Dibromofluoromethane	50	56.7	113	70 (54)	130 (147)
		Toluene-d8	50	57.8	116	70 (58)	130 (134)
		4-Bromofluorobenzene	50	56.0	112	70 (29)	130 (146)
VY1101SBSD01	VY1101SBSD01	1,2-Dichloroethane-d4	50	52.2	104	70 (50)	130 (163)
		Dibromofluoromethane	50	51.6	103	70 (54)	130 (147)
		Toluene-d8	50	51.5	103	70 (58)	130 (134)
		4-Bromofluorobenzene	50	51.2	102	70 (29)	130 (146)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D **Datafile :** VY020111.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1101SBS01	Dichlorodifluoromethane	20	20.9	ug/Kg	104			40 (64)	160 (136)	
	Chloromethane	20	22.1	ug/Kg	111			40 (70)	160 (130)	
	Vinyl chloride	20	21.4	ug/Kg	107			70 (72)	130 (129)	
	Bromomethane	20	21.3	ug/Kg	106			40 (58)	160 (141)	
	Chloroethane	20	22.2	ug/Kg	111			40 (69)	160 (130)	
	Trichlorofluoromethane	20	22.2	ug/Kg	111			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105			70 (81)	130 (123)	
	1,1-Dichloroethene	20	21.3	ug/Kg	106			70 (79)	130 (121)	
	Acetone	100	100	ug/Kg	100			40 (60)	160 (131)	
	Carbon disulfide	20	21.0	ug/Kg	105			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	22.1	ug/Kg	111			70 (77)	130 (129)	
	Methyl Acetate	20	22.3	ug/Kg	112			70 (69)	130 (149)	
	Methylene Chloride	20	20.8	ug/Kg	104			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	21.2	ug/Kg	106			70 (80)	130 (123)	
	1,1-Dichloroethane	20	22.3	ug/Kg	112			70 (82)	130 (123)	
	Cyclohexane	20	20.5	ug/Kg	103			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.3	ug/Kg	102			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	21.9	ug/Kg	110			70 (82)	130 (123)	
	Bromochloromethane	20	21.5	ug/Kg	108			70 (80)	130 (127)	
	Chloroform	20	21.9	ug/Kg	110			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.5	ug/Kg	108			70 (80)	130 (126)	
	Methylcyclohexane	20	19.8	ug/Kg	99			70 (77)	130 (123)	
	Benzene	20	21.0	ug/Kg	105			70 (84)	130 (121)	
	1,2-Dichloroethane	20	21.2	ug/Kg	106			70 (81)	130 (126)	
	Trichloroethene	20	20.7	ug/Kg	104			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.1	ug/Kg	106			70 (83)	130 (122)	
	Bromodichloromethane	20	21.7	ug/Kg	109			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			40 (70)	160 (135)	
	Toluene	20	21.1	ug/Kg	106			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	21.3	ug/Kg	106			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.9	ug/Kg	104			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	21.1	ug/Kg	106			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.7	ug/Kg	104			70 (80)	130 (125)	
	Tetrachloroethene	20	20.5	ug/Kg	103			70 (83)	130 (125)	
	Chlorobenzene	20	20.9	ug/Kg	104			70 (84)	130 (122)	
	Ethyl Benzene	20	20.4	ug/Kg	102			70 (82)	130 (124)	
	m/p-Xylenes	40	41.6	ug/Kg	104			70 (83)	130 (124)	
	o-Xylene	20	20.1	ug/Kg	101			70 (83)	130 (123)	
	Styrene	20	20.8	ug/Kg	104			70 (82)	130 (124)	
	Bromoform	20	20.5	ug/Kg	103			70 (75)	130 (127)	
	Isopropylbenzene	20	20.2	ug/Kg	101			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	20.2	ug/Kg	101			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D **Datafile :** VY020111.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1101SBS01	1,2-Dibromo-3-Chloropropane	20	18.9	ug/Kg	95			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.5	ug/Kg	98			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.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D

Datafile : VY020112.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1101SBSD01	Dichlorodifluoromethane	20	20.5	ug/Kg	103	1		40 (64)	160 (136)	30 (20)
	Chloromethane	20	22.1	ug/Kg	111	0		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	21.3	ug/Kg	106	1		70 (72)	130 (129)	30 (20)
	Bromomethane	20	20.5	ug/Kg	103	3		40 (58)	160 (141)	30 (20)
	Chloroethane	20	21.2	ug/Kg	106	5		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	21.6	ug/Kg	108	3		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.5	ug/Kg	108	3		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	20.8	ug/Kg	104	2		70 (79)	130 (121)	30 (20)
	Acetone	100	110	ug/Kg	110	10		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	20.8	ug/Kg	104	1		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.0	ug/Kg	105	6		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	21.9	ug/Kg	110	2		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	19.7	ug/Kg	99	5		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.9	ug/Kg	104	2		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.1	ug/Kg	106	6		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	20.4	ug/Kg	102	1		70 (76)	130 (122)	30 (20)
	2-Butanone	100	110	ug/Kg	110	0		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.7	ug/Kg	104	2		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.7	ug/Kg	104	6		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.0	ug/Kg	100	8		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.6	ug/Kg	108	2		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104	4		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.7	ug/Kg	99	0		70 (77)	130 (123)	30 (20)
	Benzene	20	21.0	ug/Kg	105	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	21.0	ug/Kg	105	1		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.3	ug/Kg	102	2		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.9	ug/Kg	104	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	21.1	ug/Kg	106	3		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	0		40 (70)	160 (135)	30 (20)
	Toluene	20	20.9	ug/Kg	104	2		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100	3		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	3		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	21.6	ug/Kg	108	4		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	110	ug/Kg	110	0		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.9	ug/Kg	104	2		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.2	ug/Kg	101	3		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	20.5	ug/Kg	103	0		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.6	ug/Kg	103	1		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	20.8	ug/Kg	104	2		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	41.4	ug/Kg	104	0		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.6	ug/Kg	103	2		70 (83)	130 (123)	30 (20)
	Styrene	20	21.2	ug/Kg	106	2		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.8	ug/Kg	104	1		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	20.9	ug/Kg	104	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	20.5	ug/Kg	103	2		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103	0		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	21.0	ug/Kg	105	1		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	21.3	ug/Kg	106	2		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D

Datafile : VY020112.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1101SBSD01	1,2-Dibromo-3-Chloropropane	20	20.9	ug/Kg	104	9		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.0	ug/Kg	100	2		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.2	ug/Kg	101	7		70 (70)	130 (137)	30 (20)

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1101SBL01

Lab Name: CHEMTECH

Contract: UNIO02

Lab Code: CHEM Case No.: P4663

SAS No.: P4663 SDG NO.: P4663

Lab File ID: VY020110.D

Lab Sample ID: VY1101SBL01

Date Analyzed: 11/01/2024

Time Analyzed: 09:42

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1101SBS01	VY1101SBS01	VY020111.D	11/01/2024
VY1101SBSD01	VY1101SBSD01	VY020112.D	11/01/2024
RES-BUILDING-PAD-NO-2	P4663-07	VY020124.D	11/01/2024
TENNANT-PAD-2-3-STOCKPILE	P4663-01	VY020128.D	11/01/2024
RES-BUILDING-PAD-NO-11	P4663-03	VY020129.D	11/01/2024
RES-BUILDING-PAD-NO-3	P4663-05	VY020130.D	11/01/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: UNIO02
Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663
Lab File ID: VY020074.D BFB Injection Date: 10/30/2024
Instrument ID: MSVOA_Y BFB Injection Time: 12:07
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24
75	30.0 - 60.0% of mass 95	57.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.8 (7.8) 1
176	95.0 - 101.0% of mass 174	70.8 (95.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 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
VSTDIC005	VSTDIC005	VY020075.D	10/30/2024	12:39
VSTDIC010	VSTDIC010	VY020076.D	10/30/2024	13:02
VSTDIC020	VSTDIC020	VY020077.D	10/30/2024	13:24
VSTDIC050	VSTDIC050	VY020078.D	10/30/2024	14:06
VSTDIC100	VSTDIC100	VY020079.D	10/30/2024	14:29
VSTDIC150	VSTDIC150	VY020080.D	10/30/2024	14:52

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: UNIO02
Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663
Lab File ID: VY020108.D BFB Injection Date: 11/01/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:26
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.7
75	30.0 - 60.0% of mass 95	59
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.9 (1.3) 1
174	50.0 - 100.0% of mass 95	72.7
175	5.0 - 9.0% of mass 174	5.6 (7.8) 1
176	95.0 - 101.0% of mass 174	69.1 (95) 1
177	5.0 - 9.0% of mass 176	4.6 (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	VY020109.D	11/01/2024	09:02
VY1101SBL01	VY1101SBL01	VY020110.D	11/01/2024	09:42
VY1101SBS01	VY1101SBS01	VY020111.D	11/01/2024	10:33
VY1101SBSD01	VY1101SBSD01	VY020112.D	11/01/2024	11:12
RES-BUILDING-PAD-NO-2	P4663-07	VY020124.D	11/01/2024	17:07
TENNANT-PAD-2-3-STOCKPILE	P4663-01	VY020128.D	11/01/2024	18:41
RES-BUILDING-PAD-NO-11	P4663-03	VY020129.D	11/01/2024	19:04
RES-BUILDING-PAD-NO-3	P4663-05	VY020130.D	11/01/2024	19:27

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: UNIO02
Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663
Lab File ID: VY020109.D Date Analyzed: 11/01/2024
Instrument ID: MSVOA_Y Time Analyzed: 09:02
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	249316	7.71	428486	8.62	369253	11.42
UPPER LIMIT	498632	8.213	856972	9.115	738506	11.92
LOWER LIMIT	124658	7.213	214243	8.115	184627	10.92
EPA SAMPLE NO.						
TENNANT-PAD-2-3-STOCKPILE	159567	7.71	338625	8.62	324781	11.41
RES-BUILDING-PAD-NO-11	164371	7.71	344945	8.61	309515	11.41
RES-BUILDING-PAD-NO-3	159663	7.71	335103	8.62	302177	11.41
RES-BUILDING-PAD-NO-2	168827	7.71	353605	8.62	335031	11.41
VY1101SBL01	193272	7.71	403931	8.62	365454	11.41
VY1101SBS01	224649	7.71	413315	8.62	362345	11.41
VY1101SBSD01	251864	7.71	454799	8.62	392733	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: UNIO02
Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663
Lab File ID: VY020109.D Date Analyzed: 11/01/2024
Instrument ID: MSVOA_Y Time Analyzed: 09:02
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	173771	13.346				
UPPER LIMIT	347542	13.846				
LOWER LIMIT	86885.5	12.846				
EPA SAMPLE NO.						
TENNANT-PAD-2-3-STOCKPILE	118518	13.35				
RES-BUILDING-PAD-NO-11	105144	13.35				
RES-BUILDING-PAD-NO-3	103950	13.35				
RES-BUILDING-PAD-NO-2	125105	13.35				
VY1101SBL01	125829	13.35				
VY1101SBS01	169895	13.35				
VY1101SBSD01	182188	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:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBL01	SDG No.:	P4663
Lab Sample ID:	VY1101SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020110.D	1		11/01/24 09:42	VY110124

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:	Union Paving & Construction Company		Date Collected:	
Project:	Rt. 10 Whippany		Date Received:	
Client Sample ID:	VY1101SBL01		SDG No.:	P4663
Lab Sample ID:	VY1101SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020110.D	1		11/01/24 09:42	VY110124

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	57.4		70 (50) - 130 (163)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		70 (29) - 130 (146)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	193000	7.707			
540-36-3	1,4-Difluorobenzene	404000	8.616			
3114-55-4	Chlorobenzene-d5	365000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.347			

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	
Project:	Rt. 10 Whippany		Date Received:	
Client Sample ID:	VY1101SBL01		SDG No.:	P4663
Lab Sample ID:	VY1101SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020110.D	1		11/01/24 09:42	VY110124

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:	Union Paving & Construction Company		Date Collected:	
Project:	Rt. 10 Whippany		Date Received:	
Client Sample ID:	VY1101SBS01		SDG No.:	P4663
Lab Sample ID:	VY1101SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020111.D	1		11/01/24 10:33	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.9		1.70	5.00	ug/Kg
74-87-3	Chloromethane	22.1		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	22.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.2		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.3		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.0		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.8		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.2		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.3		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	20.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.3		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	21.5		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.8		0.87	5.00	ug/Kg
71-43-2	Benzene	21.0		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.2		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.7		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	21.1		0.67	5.00	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company			Date Collected:	
Project:	Rt. 10 Whippany			Date Received:	
Client Sample ID:	VY1101SBS01			SDG No.:	P4663
Lab Sample ID:	VY1101SBS01			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020111.D	1		11/01/24 10:33	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.9		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.1		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.7		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.4		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.6		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.1		0.70	5.00	ug/Kg
100-42-5	Styrene	20.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.5		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.2		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.2		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.7		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	18.9		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.5		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	59.4		70 (50) - 130 (163)	119%	SPK: 50
1868-53-7	Dibromofluoromethane	56.7		70 (54) - 130 (147)	113%	SPK: 50
2037-26-5	Toluene-d8	57.8		70 (58) - 130 (134)	116%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.0		70 (29) - 130 (146)	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	225000	7.707			
540-36-3	1,4-Difluorobenzene	413000	8.616			
3114-55-4	Chlorobenzene-d5	362000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	170000	13.347			

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	
Project:	Rt. 10 Whippany		Date Received:	
Client Sample ID:	VY1101SBS01		SDG No.:	P4663
Lab Sample ID:	VY1101SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020111.D	1		11/01/24 10:33	VY110124

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:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBSD01	SDG No.:	P4663
Lab Sample ID:	VY1101SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020112.D	1		11/01/24 11:12	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	22.1		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.5		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.6		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.8		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.0		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	21.9		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.7		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.1		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	20.4		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.7		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	20.0		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.6		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.87	5.00	ug/Kg
71-43-2	Benzene	21.0		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.3		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.9		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.1		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.9		0.67	5.00	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company			Date Collected:	
Project:	Rt. 10 Whippany			Date Received:	
Client Sample ID:	VY1101SBSD01			SDG No.:	P4663
Lab Sample ID:	VY1101SBSD01			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020112.D	1		11/01/24 11:12	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.6		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.9		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.2		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.8		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.6		0.70	5.00	ug/Kg
100-42-5	Styrene	21.2		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.8		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.9		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.5		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.0		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.3		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.9		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.2		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	51.5		70 (58) - 130 (134)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		70 (29) - 130 (146)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	252000	7.707			
540-36-3	1,4-Difluorobenzene	455000	8.616			
3114-55-4	Chlorobenzene-d5	393000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	182000	13.346			

Report of Analysis

Client:	Union Paving & Construction Company			Date Collected:	
Project:	Rt. 10 Whippany			Date Received:	
Client Sample ID:	VY1101SBSD01			SDG No.:	P4663
Lab Sample ID:	VY1101SBSD01			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020112.D	1		11/01/24 11:12	VY110124

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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D								
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.507	0.488	0.482	0.381	0.456	0.463	0.463	9.5
Chloromethane	0.831	0.835	0.791	0.683	0.731	0.728	0.767	8.1
Vinyl Chloride	0.867	0.874	0.835	0.754	0.809	0.799	0.823	5.5
Bromomethane	0.631	0.574	0.545	0.480	0.521	0.528	0.546	9.5
Chloroethane	0.562	0.555	0.546	0.486	0.527	0.511	0.531	5.5
Trichlorofluoromethane	1.025	1.018	1.037	0.927	1.012	1.014	1.005	3.9
1,1,2-Trichlorotrifluoroethane	0.597	0.584	0.567	0.509	0.561	0.565	0.564	5.3
1,1-Dichloroethene	0.534	0.578	0.536	0.493	0.543	0.552	0.540	5.1
Acetone	0.134	0.138	0.138	0.140	0.165	0.155	0.145	8.5
Carbon Disulfide	1.790	1.835	1.806	1.674	1.832	1.837	1.796	3.5
Methyl tert-butyl Ether	1.229	1.344	1.376	1.241	1.483	1.471	1.357	8
Methyl Acetate	0.314	0.357	0.351	0.317	0.362	0.342	0.340	6
Methylene Chloride	0.807	0.716	0.641	0.555	0.597	0.597	0.652	14.3
trans-1,2-Dichloroethene	0.611	0.618	0.613	0.564	0.616	0.628	0.609	3.7
1,1-Dichloroethane	1.155	1.209	1.189	1.070	1.194	1.200	1.170	4.5
Cyclohexane	1.284	1.206	1.138	0.986	1.093	1.088	1.132	9.1
2-Butanone	0.187	0.197	0.192	0.179	0.219	0.206	0.197	7.3
Carbon Tetrachloride	0.467	0.491	0.499	0.462	0.519	0.524	0.494	5.2
cis-1,2-Dichloroethene	0.646	0.714	0.715	0.646	0.740	0.736	0.700	6.1
Bromochloromethane	0.572	0.562	0.527	0.505	0.553	0.567	0.548	4.8
Chloroform	1.141	1.170	1.186	1.068	1.196	1.203	1.161	4.3
1,1,1-Trichloroethane	0.986	1.026	1.009	0.950	1.041	1.069	1.013	4.1
Methylcyclohexane	0.603	0.602	0.631	0.578	0.665	0.661	0.623	5.6
Benzene	1.414	1.405	1.455	1.325	1.504	1.498	1.433	4.7
1,2-Dichloroethane	0.379	0.391	0.402	0.365	0.425	0.418	0.397	5.8
Trichloroethene	0.328	0.331	0.332	0.307	0.348	0.346	0.332	4.4
1,2-Dichloropropane	0.323	0.331	0.357	0.320	0.363	0.364	0.343	6
Bromodichloromethane	0.459	0.476	0.487	0.451	0.526	0.522	0.487	6.4
4-Methyl-2-Pentanone	0.190	0.223	0.238	0.219	0.269	0.252	0.232	11.9
Toluene	0.803	0.859	0.900	0.833	0.953	0.953	0.884	7.1

* 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: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID:		RRF005 = VY020075.D		RRF010 = VY020076.D		RRF020 = VY020077.D		
		RRF050 = VY020078.D		RRF100 = VY020079.D		RRF150 = VY020080.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.369	0.400	0.436	0.401	0.486	0.487	0.430	11.3
cis-1,3-Dichloropropene	0.446	0.485	0.518	0.484	0.573	0.573	0.513	10
1,1,2-Trichloroethane	0.206	0.225	0.235	0.216	0.257	0.248	0.231	8.4
2-Hexanone	0.131	0.161	0.168	0.158	0.198	0.182	0.166	13.7
Dibromochloromethane	0.256	0.281	0.300	0.273	0.332	0.326	0.295	10.3
1,2-Dibromoethane	0.203	0.214	0.215	0.196	0.233	0.228	0.215	6.7
Tetrachloroethene	0.326	0.316	0.344	0.307	0.344	0.343	0.330	4.8
Chlorobenzene	1.024	1.044	1.094	0.993	1.114	1.124	1.065	5
Ethyl Benzene	1.886	1.934	2.015	1.876	2.114	2.124	1.992	5.5
m/p-Xylenes	0.685	0.693	0.742	0.692	0.779	0.782	0.729	6.2
o-Xylene	0.652	0.662	0.686	0.649	0.745	0.745	0.690	6.5
Styrene	0.985	1.080	1.154	1.093	1.259	1.273	1.141	9.8
Bromoform	0.151	0.162	0.173	0.165	0.202	0.195	0.175	11.4
Isopropylbenzene	4.065	3.829	3.995	3.685	4.099	4.293	3.994	5.3
1,1,2,2-Tetrachloroethane	0.716	0.707	0.698	0.624	0.727	0.719	0.699	5.4
1,3-Dichlorobenzene	1.659	1.521	1.680	1.509	1.703	1.774	1.641	6.4
1,4-Dichlorobenzene	1.680	1.604	1.653	1.487	1.666	1.716	1.634	5
1,2-Dichlorobenzene	1.391	1.384	1.460	1.310	1.483	1.530	1.426	5.6
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.106	0.092	0.114	0.112	0.106	7.6
1,2,4-Trichlorobenzene	0.652	0.708	0.784	0.693	0.865	0.895	0.766	12.8
1,2,3-Trichlorobenzene	0.578	0.606	0.653	0.575	0.737	0.754	0.650	12.1
1,2-Dichloroethane-d4	0.608	0.657	0.578	0.586	0.668	0.647	0.624	6.1
Dibromofluoromethane	0.305	0.317	0.300	0.305	0.340	0.340	0.318	5.7
Toluene-d8	1.187	1.251	1.187	1.224	1.380	1.364	1.265	6.8
4-Bromofluorobenzene	0.371	0.402	0.376	0.399	0.463	0.454	0.411	9.5

* 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 CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date/Time: 11/01/2024 09:02

Lab File ID: VY020109.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.463	0.416		-10.15	20
Chloromethane	0.767	0.738	0.1	-3.78	20
Vinyl Chloride	0.823	0.819		-0.49	20
Bromomethane	0.546	0.498		-8.79	20
Chloroethane	0.531	0.533		0.38	20
Trichlorofluoromethane	1.005	1.006		0.1	20
1,1,2-Trichlorotrifluoroethane	0.564	0.567		0.53	20
1,1-Dichloroethene	0.540	0.544		0.74	20
Acetone	0.145	0.171		17.93	20
Carbon Disulfide	1.796	1.799		0.17	20
Methyl tert-butyl Ether	1.357	1.331		-1.92	20
Methyl Acetate	0.340	0.316		-7.06	20
Methylene Chloride	0.652	0.581		-10.89	20
trans-1,2-Dichloroethene	0.609	0.606		-0.49	20
1,1-Dichloroethane	1.170	1.189	0.1	1.62	20
Cyclohexane	1.132	1.101		-2.74	20
2-Butanone	0.197	0.205		4.06	20
Carbon Tetrachloride	0.494	0.533		7.89	20
cis-1,2-Dichloroethene	0.700	0.703		0.43	20
Bromochloromethane	0.548	0.558		1.83	20
Chloroform	1.161	1.178		1.46	20
1,1,1-Trichloroethane	1.013	1.038		2.47	20
Methylcyclohexane	0.623	0.670		7.54	20
Benzene	1.433	1.512		5.51	20
1,2-Dichloroethane	0.397	0.403		1.51	20
Trichloroethene	0.332	0.346		4.22	20
1,2-Dichloropropane	0.343	0.366		6.71	20
Bromodichloromethane	0.487	0.509		4.52	20
4-Methyl-2-Pentanone	0.232	0.240		3.45	20
Toluene	0.884	0.962		8.82	20
t-1,3-Dichloropropene	0.430	0.446		3.72	20
cis-1,3-Dichloropropene	0.513	0.545		6.24	20
1,1,2-Trichloroethane	0.231	0.240		3.9	20
2-Hexanone	0.166	0.183		10.24	20
Dibromochloromethane	0.295	0.302		2.37	20
1,2-Dibromoethane	0.215	0.215		0	20
Tetrachloroethene	0.330	0.354		7.27	20
Chlorobenzene	1.065	1.146	0.3	7.61	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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date/Time: 11/01/2024 09:02

Lab File ID: VY020109.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.992	2.169		8.89	20
m/p-Xylenes	0.729	0.794		8.92	20
o-Xylene	0.690	0.761		10.29	20
Styrene	1.141	1.258		10.25	20
Bromoform	0.175	0.184	0.1	5.14	20
Isopropylbenzene	3.994	4.389		9.89	20
1,1,2,2-Tetrachloroethane	0.699	0.687	0.3	-1.72	20
1,3-Dichlorobenzene	1.641	1.752		6.76	20
1,4-Dichlorobenzene	1.634	1.698		3.92	20
1,2-Dichlorobenzene	1.426	1.498		5.05	20
1,2-Dibromo-3-Chloropropane	0.106	0.101		-4.72	20
1,2,4-Trichlorobenzene	0.766	0.780		1.83	20
1,2,3-Trichlorobenzene	0.650	0.631		-2.92	20
1,2-Dichloroethane-d4	0.624	0.526		-15.7	20
Dibromofluoromethane	0.318	0.284		-10.69	20
Toluene-d8	1.265	1.175		-7.11	20
4-Bromofluorobenzene	0.411	0.381		-7.3	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\VY110124\
Data File : VY020128.D
Acq On : 01 Nov 2024 18:41
Operator : SY/MD
Sample : P4663-01
Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Quant Time: Nov 04 00:51:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	159567	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	338625	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	324781	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	118518	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	121934	61.227	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	122.460%
35) Dibromofluoromethane	7.634	113	115825	53.798	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	107.600%
50) Toluene-d8	10.103	98	421310	49.162	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.320%
62) 4-Bromofluorobenzene	12.402	95	132684	47.667	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	95.340%

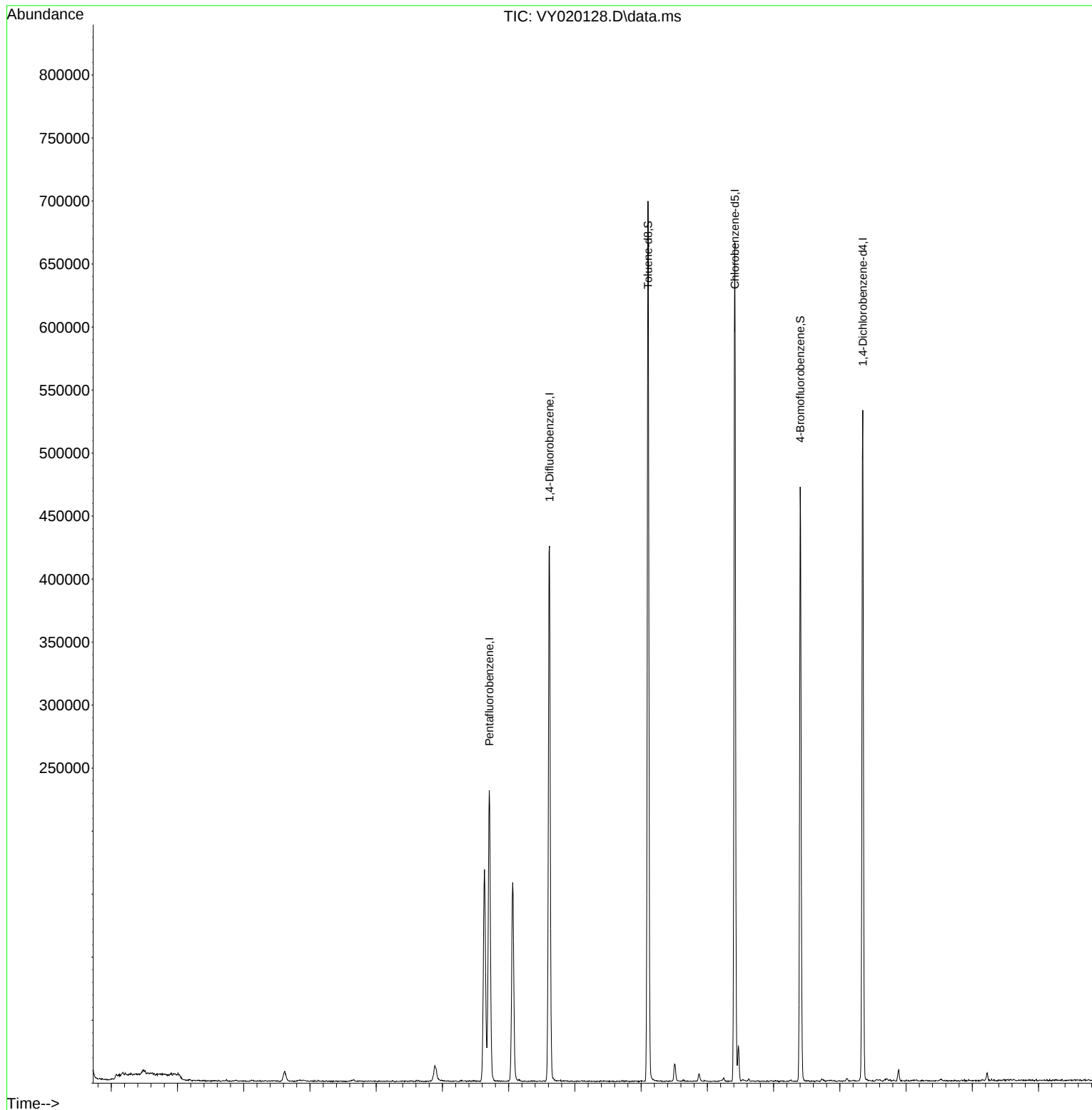
Target Compounds Qvalue

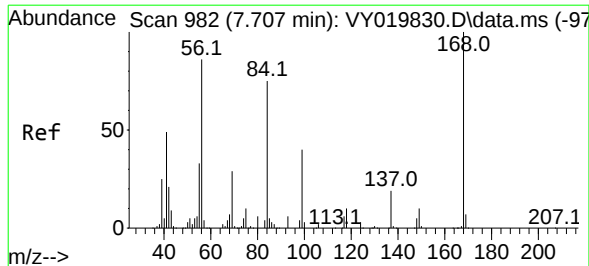
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020128.D
Acq On : 01 Nov 2024 18:41
Operator : SY/MD
Sample : P4663-01
Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

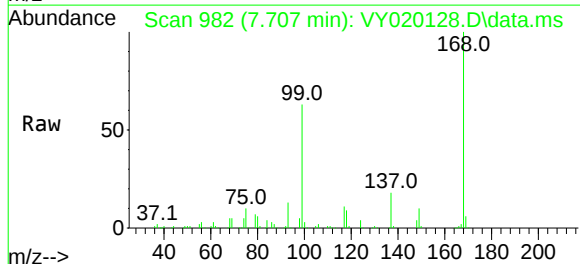
Quant Time: Nov 04 00:51:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



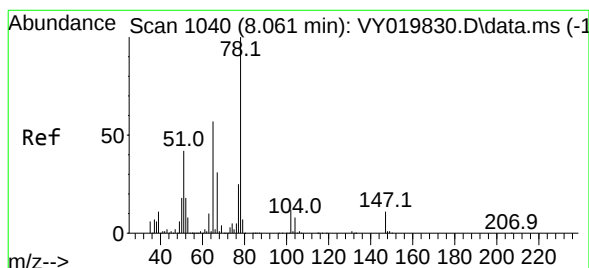
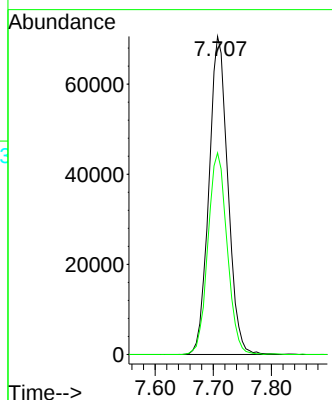
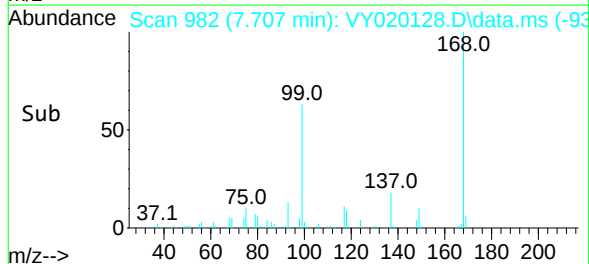


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

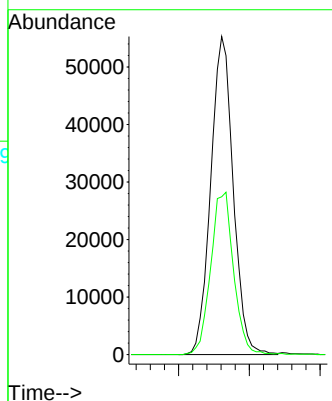
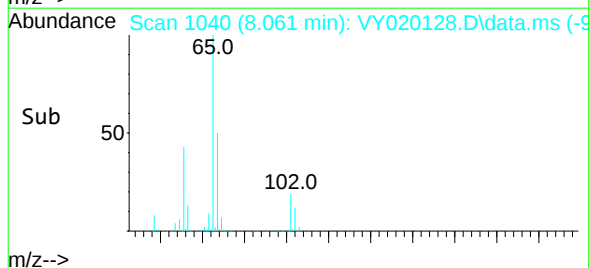
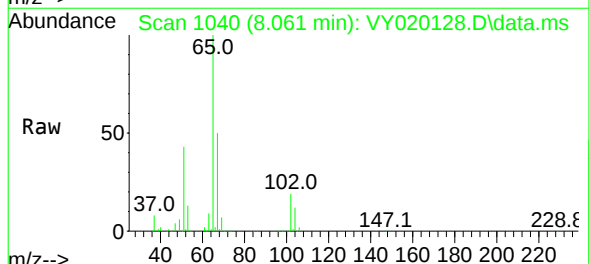


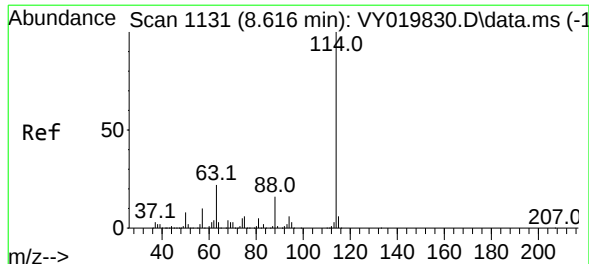
Tgt Ion: 168 Resp: 159567
Ion Ratio Lower Upper
168 100
99 63.4 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 61.227 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

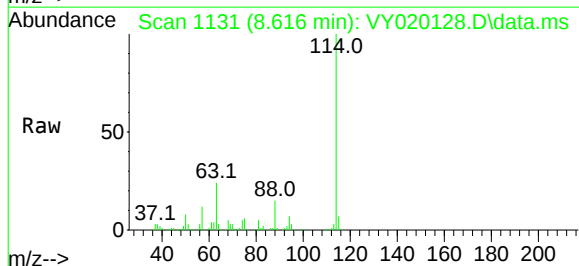
Tgt Ion: 65 Resp: 121934
Ion Ratio Lower Upper
65 100
67 52.1 0.0 109.6



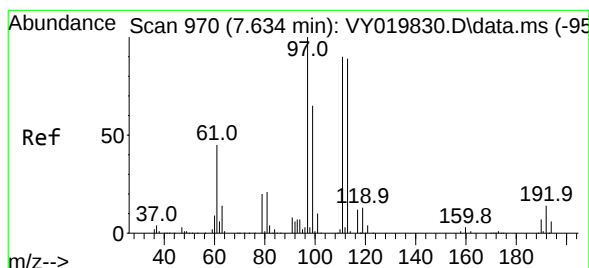
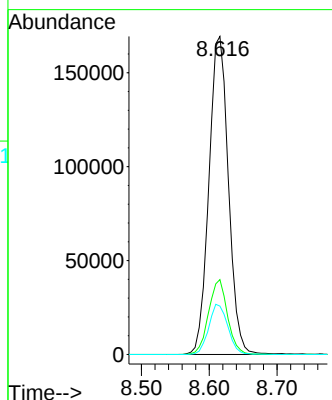
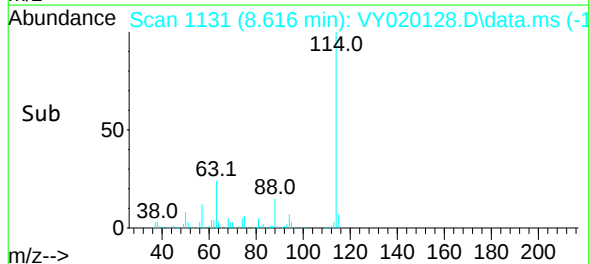


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

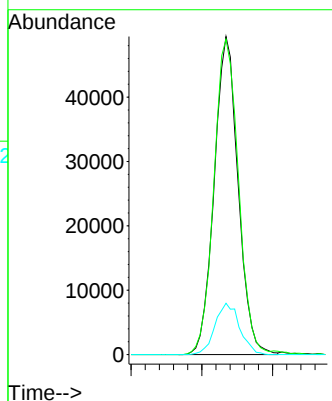
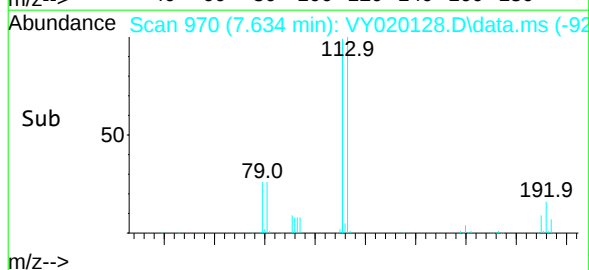
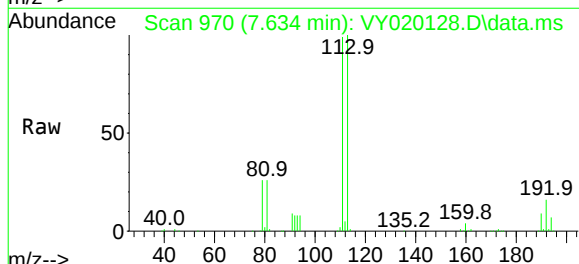


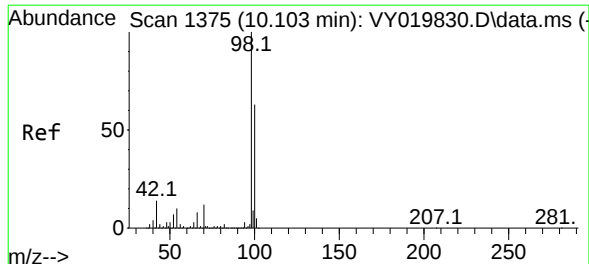
Tgt Ion: 114 Resp: 338625
Ion Ratio Lower Upper
114 100
63 23.5 0.0 35.0
88 15.2 0.0 27.2



#35
Dibromofluoromethane
Concen: 53.798 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Tgt Ion: 113 Resp: 115825
Ion Ratio Lower Upper
113 100
111 102.6 82.2 123.4
192 16.6 15.9 23.9





#50

Toluene-d8

Concen: 49.162 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY020128.D

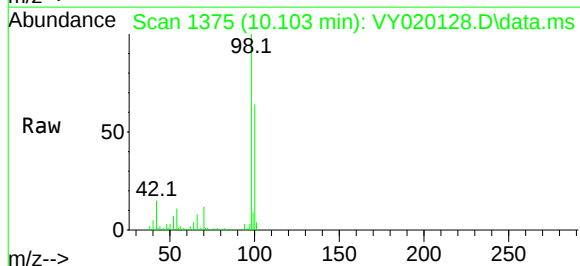
Acq: 01 Nov 2024 18:41

Instrument :

MSVOA_Y

ClientSampleId :

TENNANT-PAD-2-3-STOCKPILE

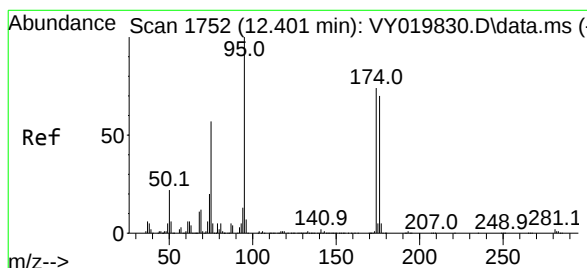
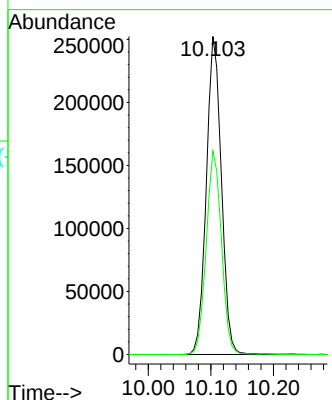
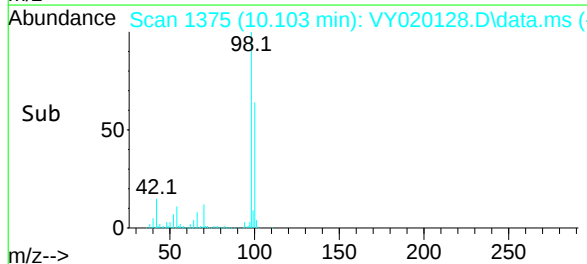


Tgt Ion: 98 Resp: 421310

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0



#62

4-Bromofluorobenzene

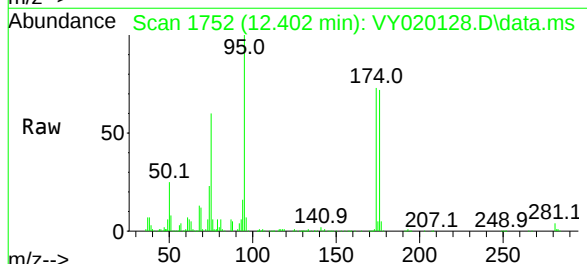
Concen: 47.667 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY020128.D

Acq: 01 Nov 2024 18:41



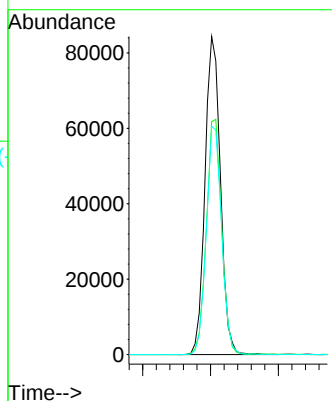
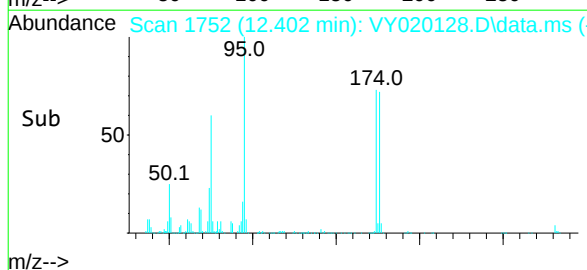
Tgt Ion: 95 Resp: 132684

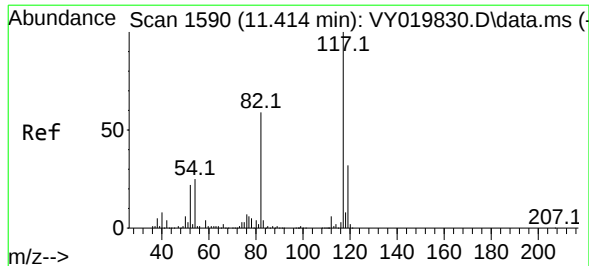
Ion Ratio Lower Upper

95 100

174 73.8 0.0 175.6

176 71.5 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY020128.D

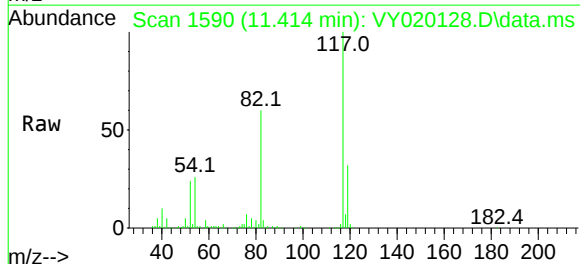
Acq: 01 Nov 2024 18:41

Instrument :

MSVOA_Y

ClientSampleId :

TENNANT-PAD-2-3-STOCKPILE



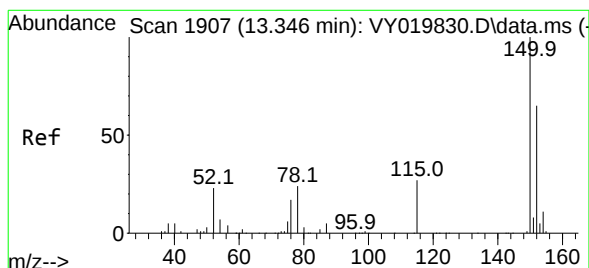
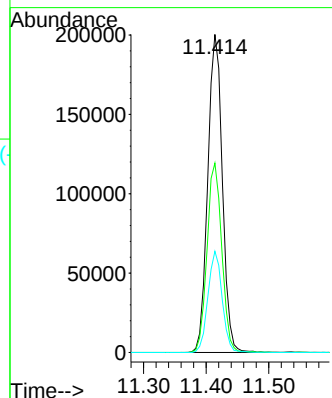
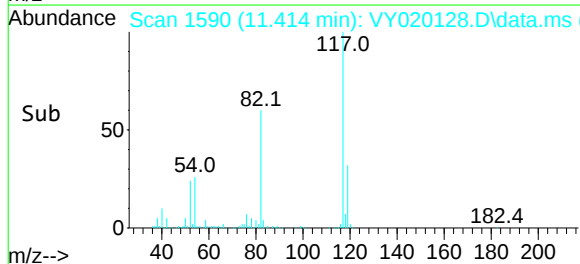
Tgt Ion:117 Resp: 324781

Ion Ratio Lower Upper

117 100

82 59.5 42.4 63.6

119 31.8 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY020128.D

Acq: 01 Nov 2024 18:41

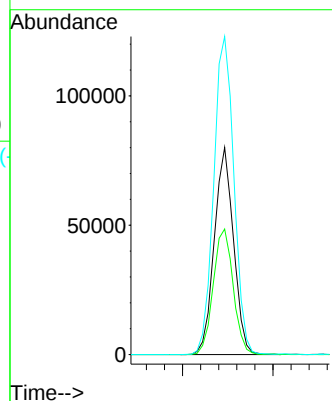
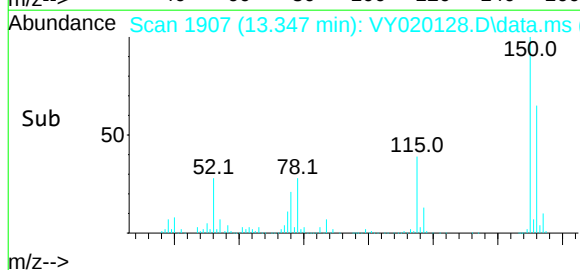
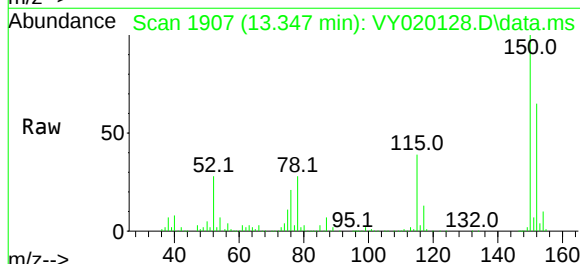
Tgt Ion:152 Resp: 118518

Ion Ratio Lower Upper

152 100

115 62.7 28.2 84.7

150 160.6 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020129.D
Acq On : 01 Nov 2024 19:04
Operator : SY/MD
Sample : P4663-03
Misc : 6.25g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

A
B
C
D
E
F
G
H
I
J

Quant Time: Nov 04 00:52:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	164371	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.609	114	344945	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	309515	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	105144	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	116799	56.935	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	113.860%
35) Dibromofluoromethane	7.634	113	113604	51.800	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.600%
50) Toluene-d8	10.103	98	426232	48.825	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.660%
62) 4-Bromofluorobenzene	12.401	95	124656	43.962	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	87.920%

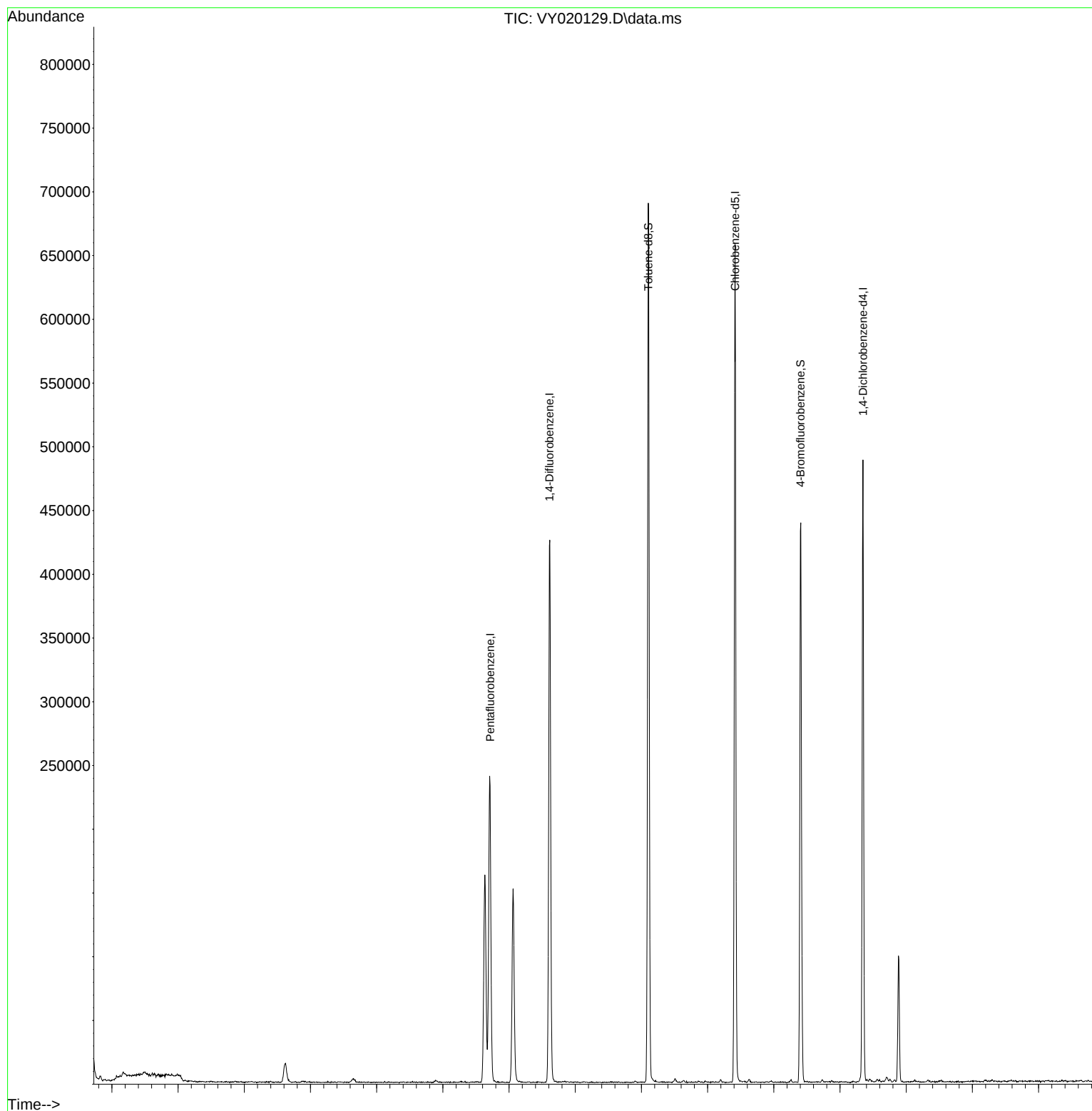
Target Compounds	Qvalue

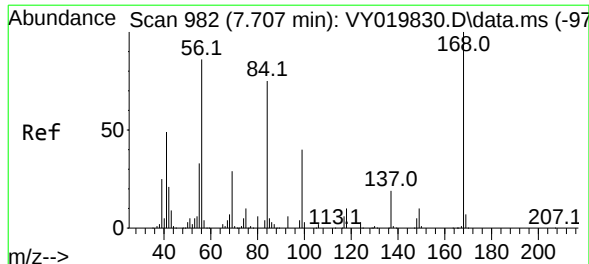
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020129.D
Acq On : 01 Nov 2024 19:04
Operator : SY/MD
Sample : P4663-03
Misc : 6.25g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

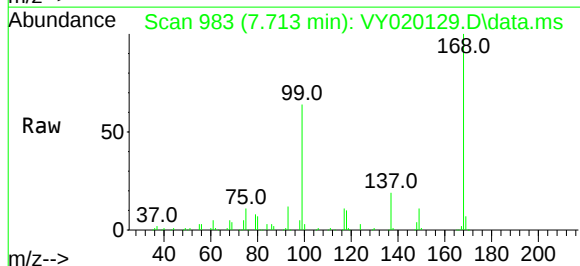
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Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



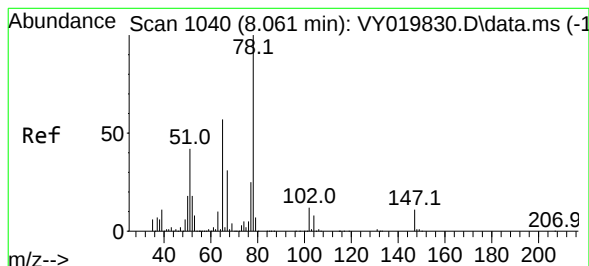
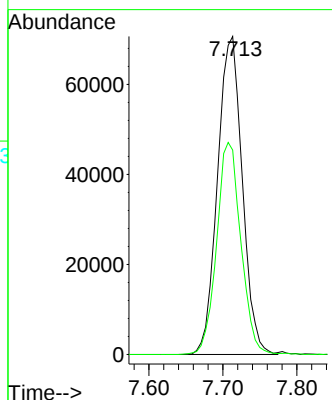
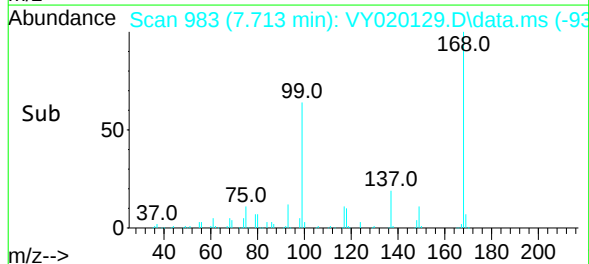


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

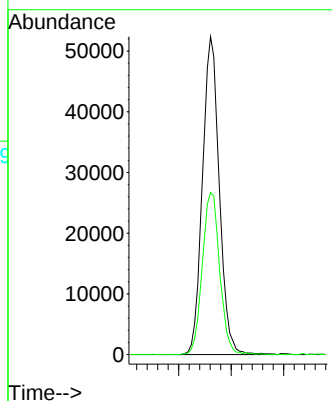
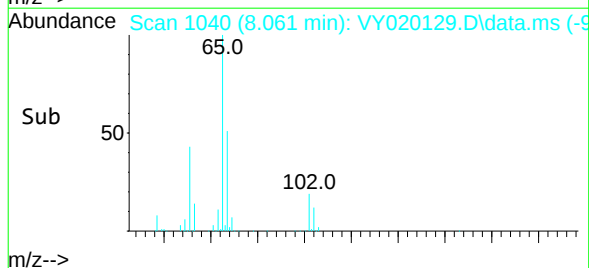
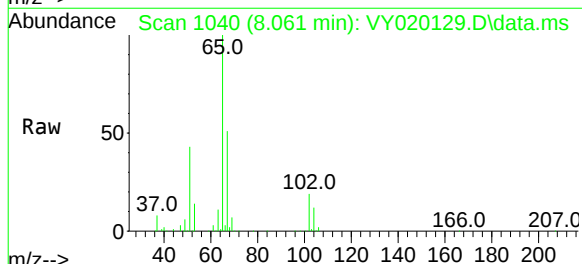


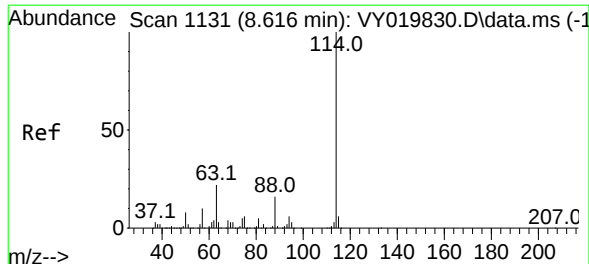
Tgt Ion: 168 Resp: 164371
Ion Ratio Lower Upper
168 100
99 64.3 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 56.935 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Tgt Ion: 65 Resp: 116799
Ion Ratio Lower Upper
65 100
67 52.6 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY020129.D

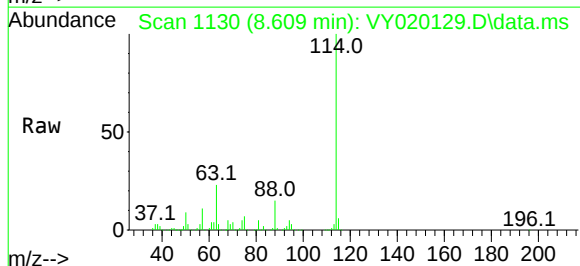
Acq: 01 Nov 2024 19:04

Instrument :

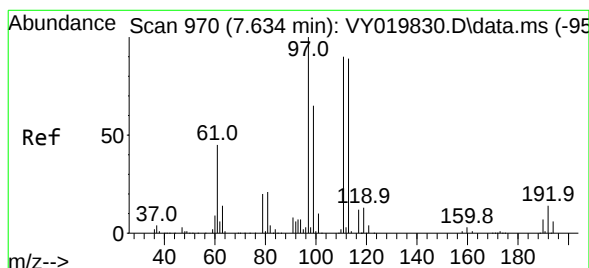
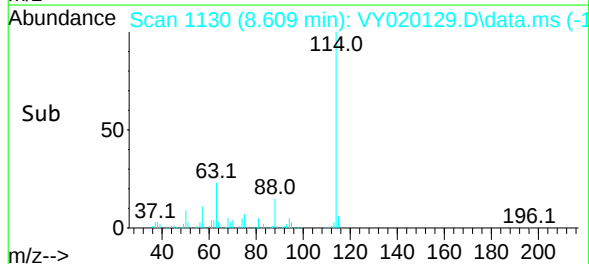
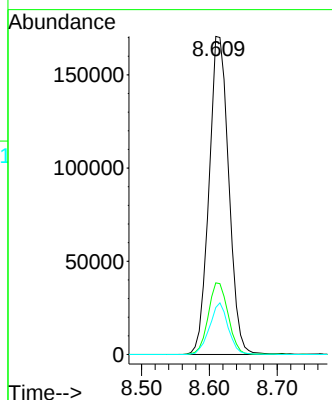
MSVOA_Y

ClientSampleId :

RES-BUILDING-PAD-NO-11



Tgt Ion:	114	Resp:	344945
Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	35.0
88	14.8	0.0	27.2



#35

Dibromofluoromethane

Concen: 51.800 ug/l

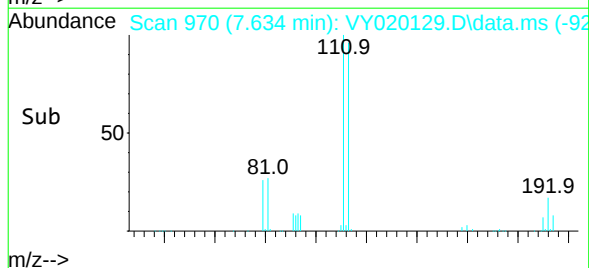
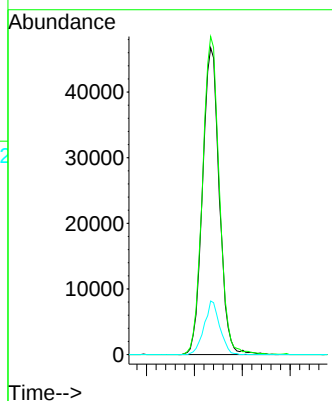
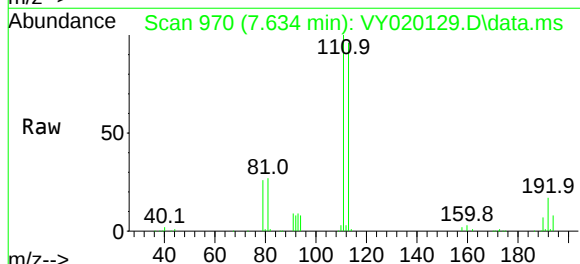
RT: 7.634 min Scan# 970

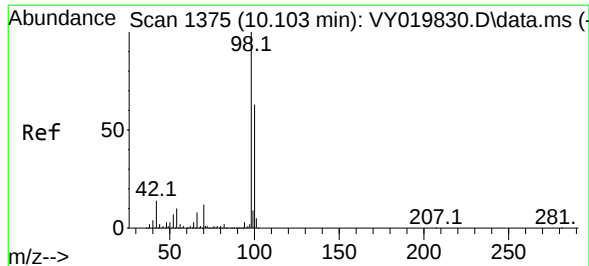
Delta R.T. 0.000 min

Lab File: VY020129.D

Acq: 01 Nov 2024 19:04

Tgt Ion:	113	Resp:	113604
Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.2	123.4
192	16.3	15.9	23.9





#50

Toluene-d8

Concen: 48.825 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY020129.D

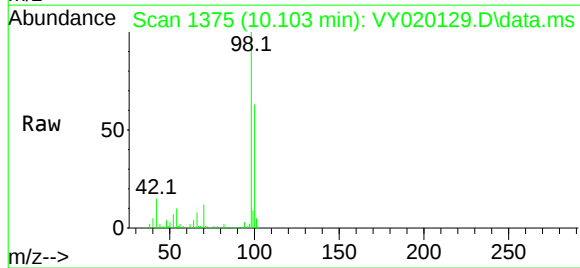
Acq: 01 Nov 2024 19:04

Instrument :

MSVOA_Y

ClientSampleId :

RES-BUILDING-PAD-NO-11

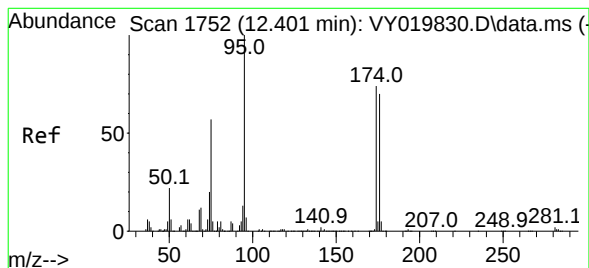
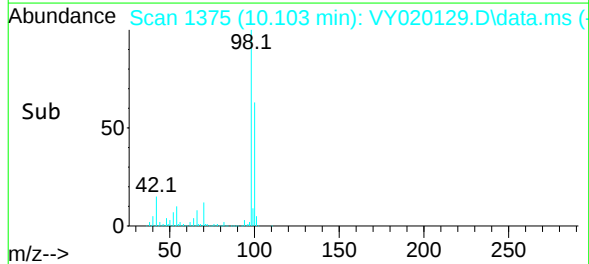
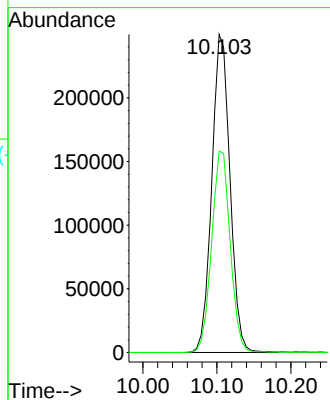


Tgt Ion: 98 Resp: 426232

Ion Ratio Lower Upper

98 100

100 64.9 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 43.962 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY020129.D

Acq: 01 Nov 2024 19:04

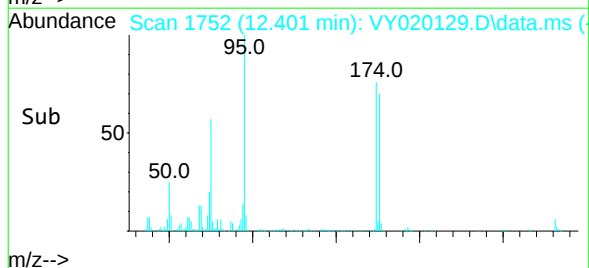
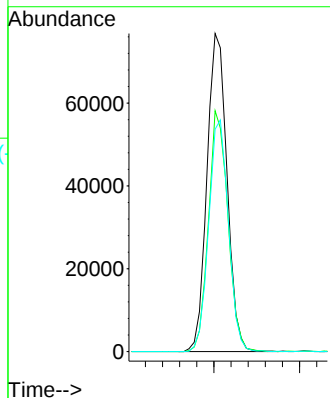
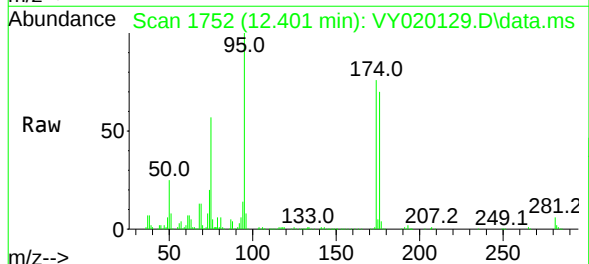
Tgt Ion: 95 Resp: 124656

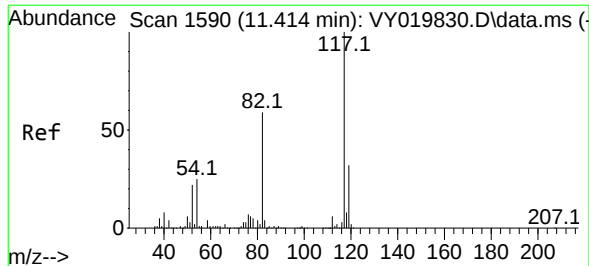
Ion Ratio Lower Upper

95 100

174 73.5 0.0 175.6

176 71.8 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY020129.D

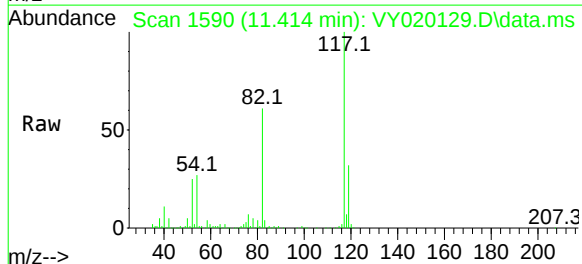
Acq: 01 Nov 2024 19:04

Instrument :

MSVOA_Y

ClientSampleId :

RES-BUILDING-PAD-NO-11



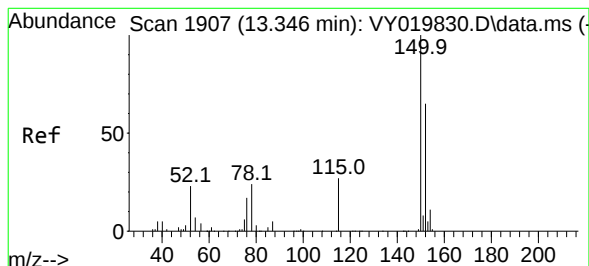
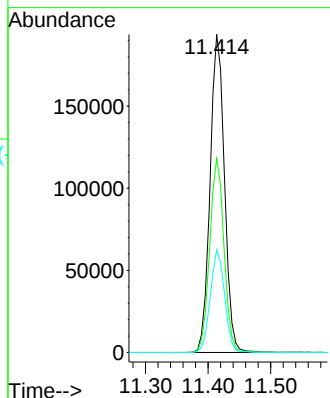
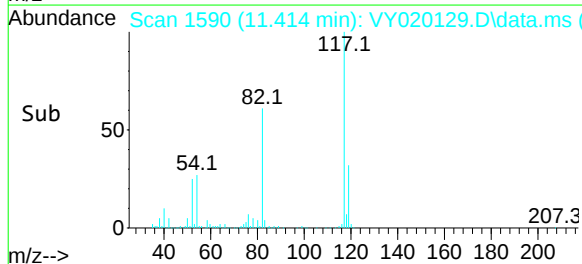
Tgt Ion:117 Resp: 309515

Ion Ratio Lower Upper

117 100

82 60.9 42.4 63.6

119 32.2 25.9 38.9



#72

1,4-Dichlorobenzene-d4

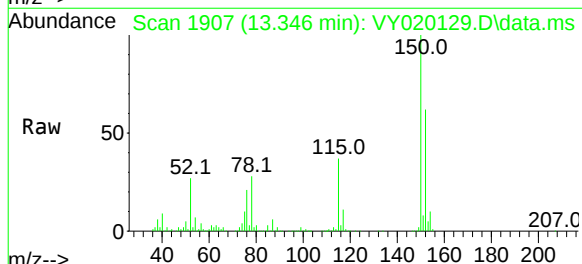
Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY020129.D

Acq: 01 Nov 2024 19:04



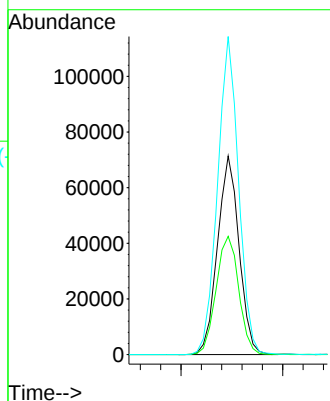
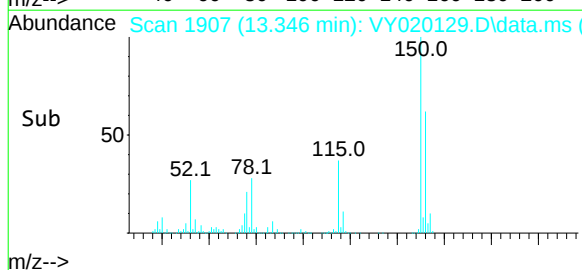
Tgt Ion:152 Resp: 105144

Ion Ratio Lower Upper

152 100

115 62.6 28.2 84.7

150 156.2 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020130.D
Acq On : 01 Nov 2024 19:27
Operator : SY/MD
Sample : P4663-05
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 04 00:52:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

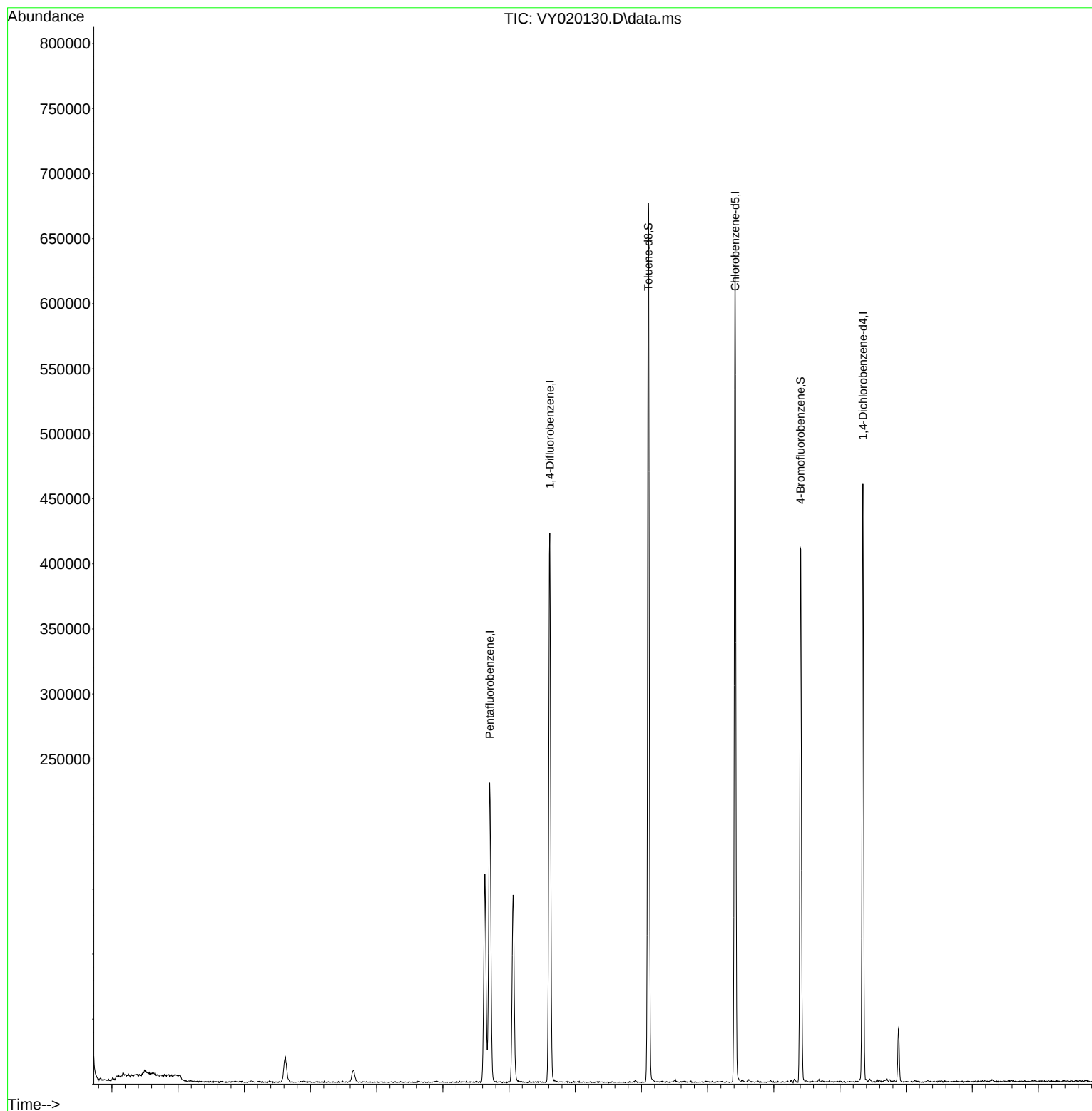
Internal Standards						
1) Pentafluorobenzene	7.707	168	159663	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	335103	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	302177	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	103950	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	113327	56.871	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 113.740%	
35) Dibromofluoromethane	7.634	113	109596	51.440	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.880%	
50) Toluene-d8	10.103	98	421703	49.725	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.460%	
62) 4-Bromofluorobenzene	12.401	95	121935	44.265	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 88.540%	
Target Compounds						
						Qvalue
20) Methylene Chloride	4.616	84	13159	6.321	ug/l	# 73

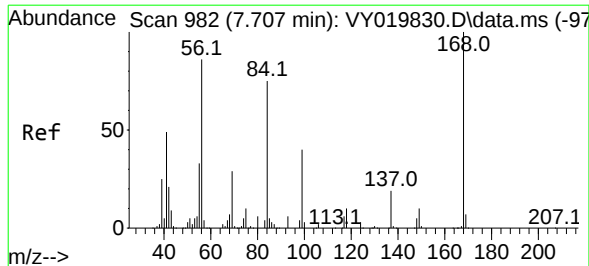
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020130.D
Acq On : 01 Nov 2024 19:27
Operator : SY/MD
Sample : P4663-05
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

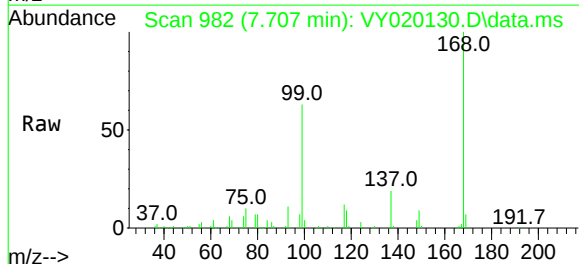
Quant Time: Nov 04 00:52:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



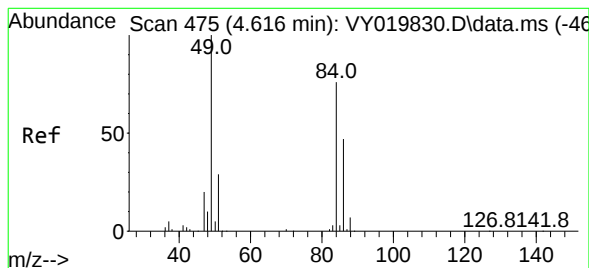
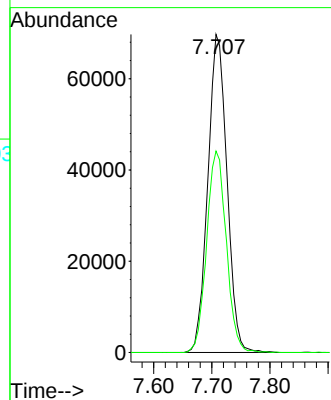
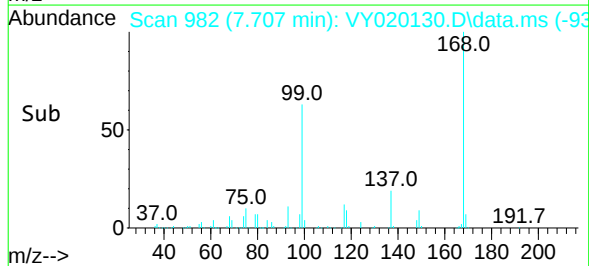


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

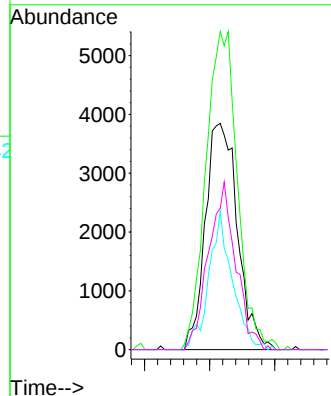
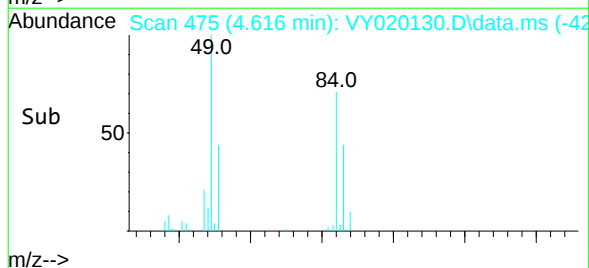
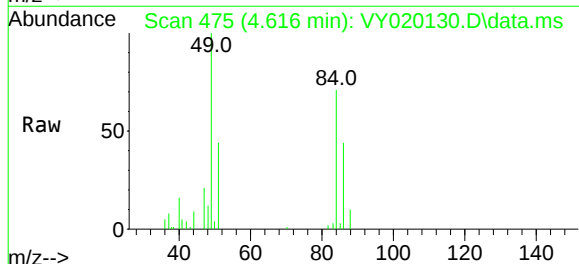


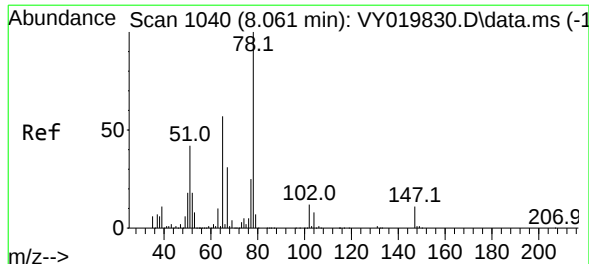
Tgt Ion: 168 Resp: 159663
Ion Ratio Lower Upper
168 100
99 63.3 39.1 58.7#



#20
Methylene Chloride
Concen: 6.321 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion: 84 Resp: 13159
Ion Ratio Lower Upper
84 100
49 140.6 84.4 126.6#
51 61.3 26.0 39.0#
86 62.5 49.5 74.3

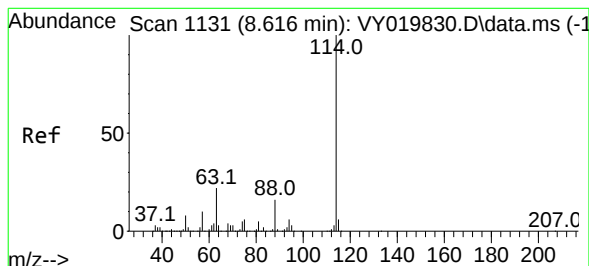
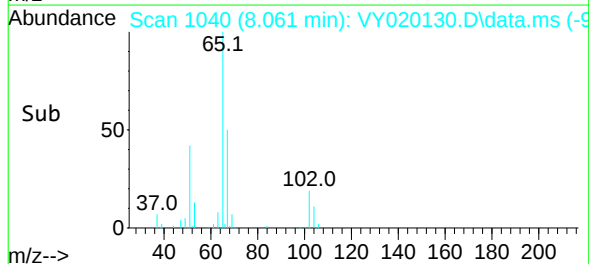
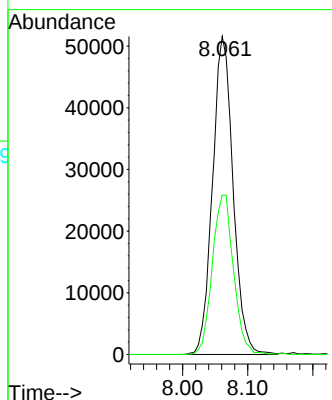
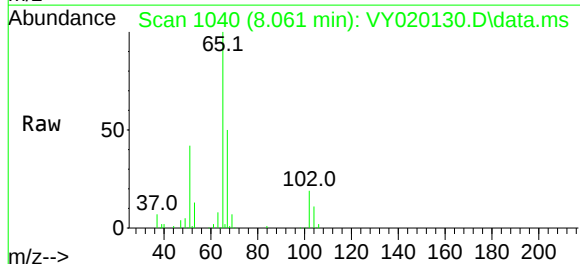




#33
1,2-Dichloroethane-d4
Concen: 56.871 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

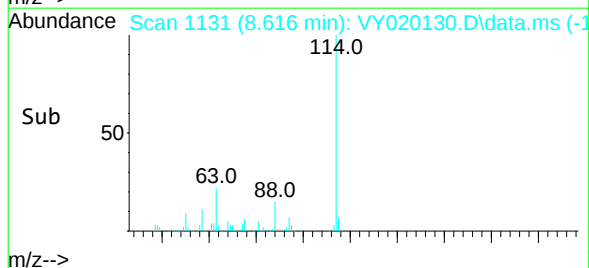
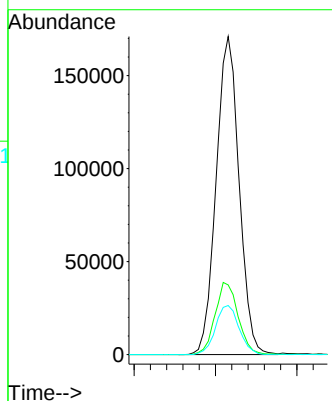
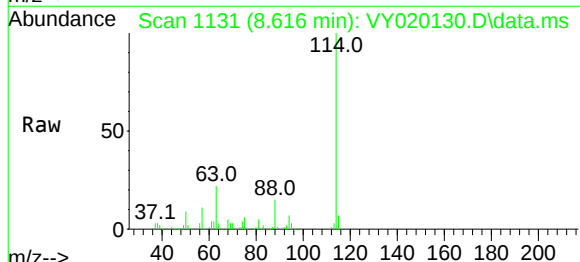
Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

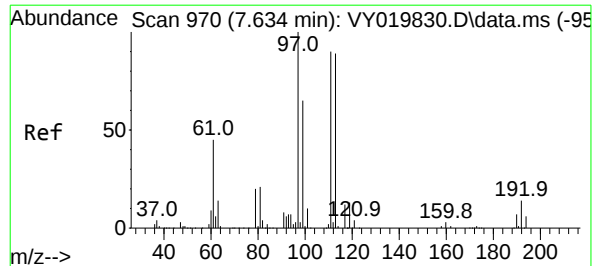
Tgt Ion: 65 Resp: 113327
Ion Ratio Lower Upper
65 100
67 51.6 0.0 109.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion: 114 Resp: 335103
Ion Ratio Lower Upper
114 100
63 21.9 0.0 35.0
88 15.4 0.0 27.2





#35

Dibromofluoromethane

Concen: 51.440 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY020130.D

Acq: 01 Nov 2024 19:27

Instrument :

MSVOA_Y

ClientSampleId :

RES-BUILDING-PAD-NO-3

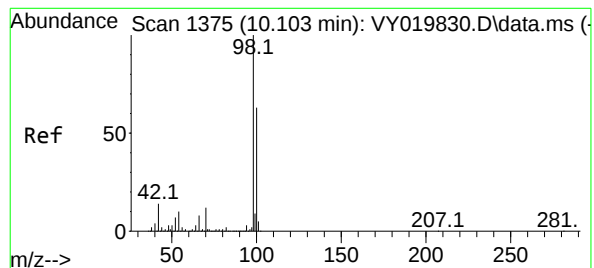
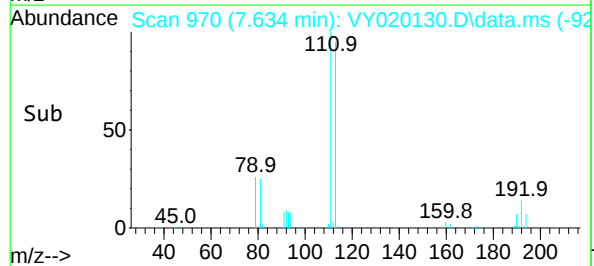
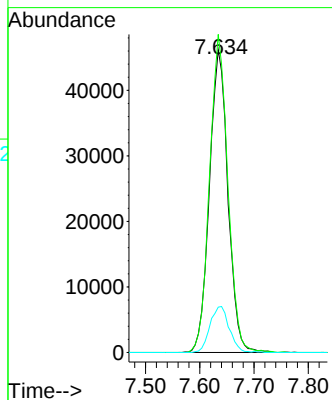
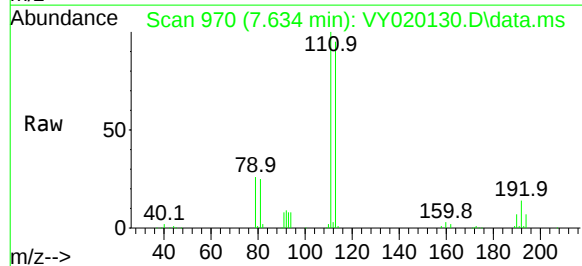
Tgt Ion:113 Resp: 109596

Ion Ratio Lower Upper

113 100

111 104.0 82.2 123.4

192 15.8 15.9 23.9#



#50

Toluene-d8

Concen: 49.725 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY020130.D

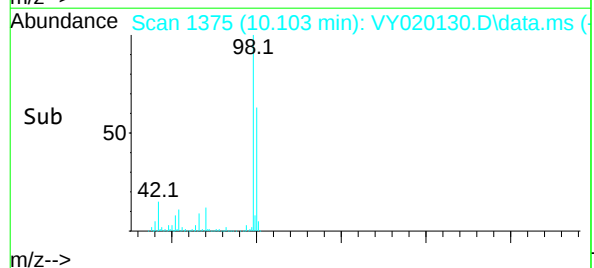
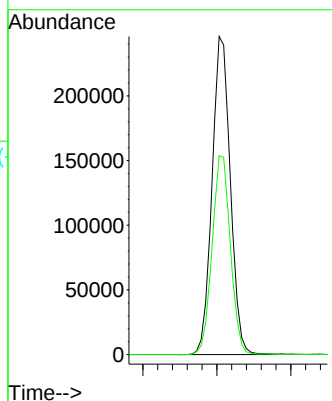
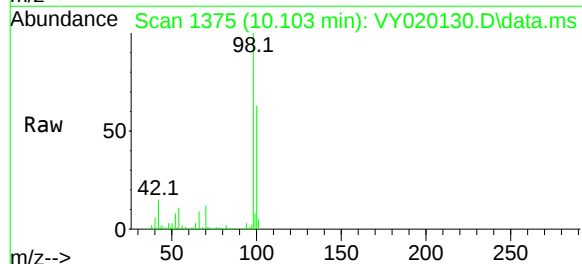
Acq: 01 Nov 2024 19:27

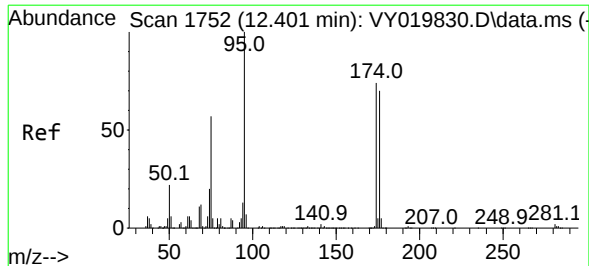
Tgt Ion: 98 Resp: 421703

Ion Ratio Lower Upper

98 100

100 62.7 52.0 78.0





#62

4-Bromofluorobenzene

Concen: 44.265 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY020130.D

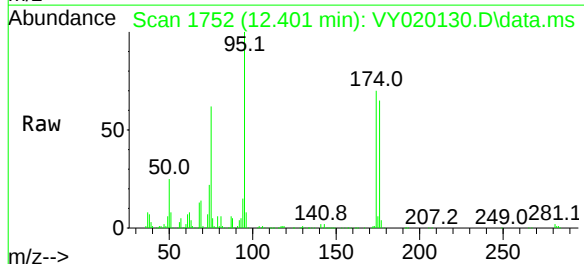
Acq: 01 Nov 2024 19:27

Instrument :

MSVOA_Y

ClientSampleId :

RES-BUILDING-PAD-NO-3



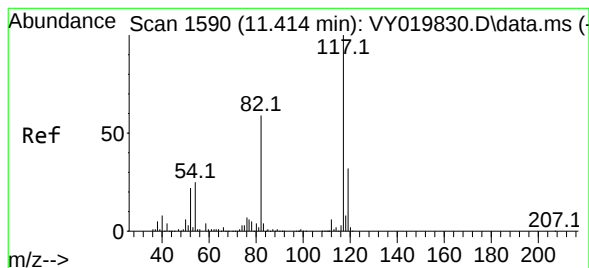
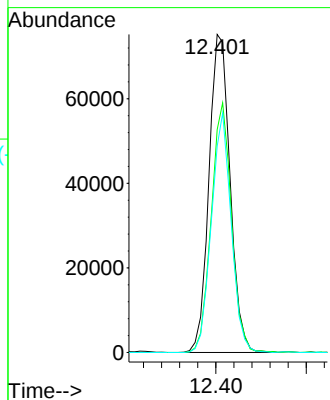
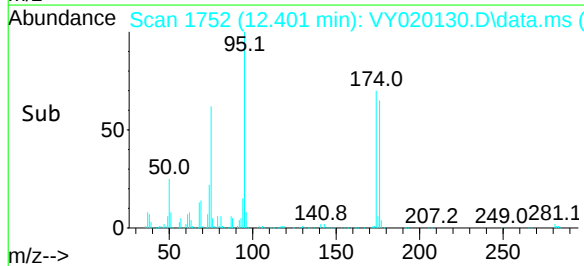
Tgt Ion: 95 Resp: 121935

Ion Ratio Lower Upper

95 100

174 75.3 0.0 175.6

176 70.4 0.0 171.4



#63

Chlorobenzene-d5

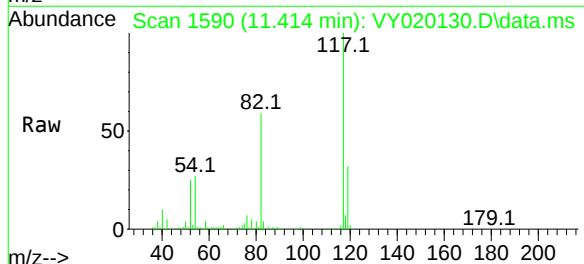
Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY020130.D

Acq: 01 Nov 2024 19:27



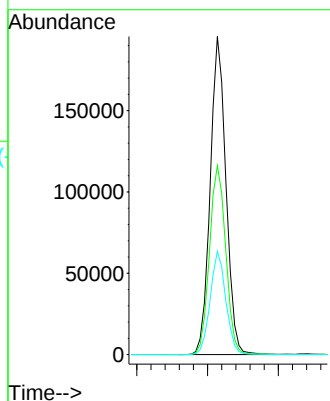
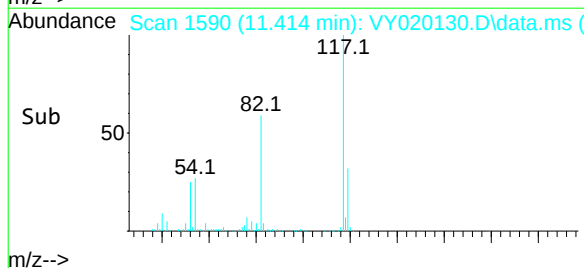
Tgt Ion: 117 Resp: 302177

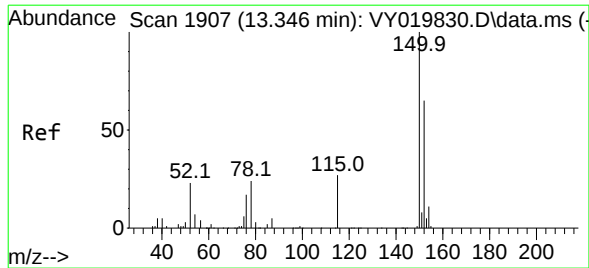
Ion Ratio Lower Upper

117 100

82 59.4 42.4 63.6

119 32.4 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 19

Delta R.T. 0.000 min

Lab File: VY020130.D

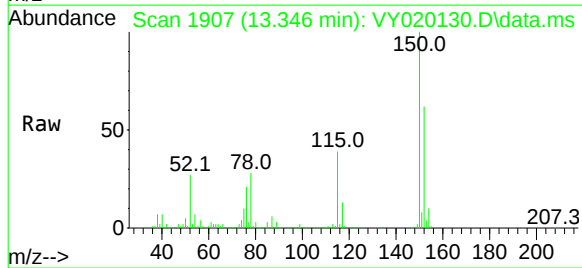
Acq: 01 Nov 2024 19:27

Instrument :

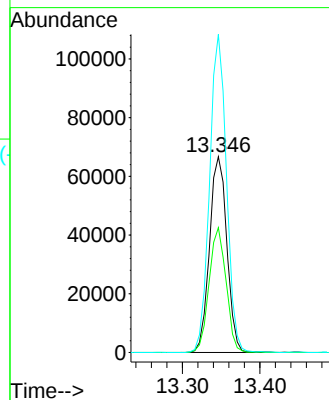
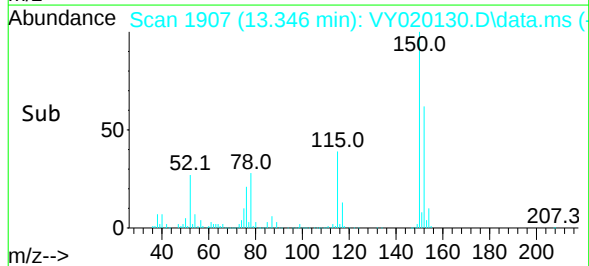
MSVOA_Y

ClientSampleId :

RES-BUILDING-PAD-NO-3



Tgt Ion:	152	Resp:	103950
Ion	Ratio	Lower	Upper
152	100		
115	62.4	28.2	84.7
150	157.8	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020124.D
Acq On : 01 Nov 2024 17:07
Operator : SY/MD
Sample : P4663-07
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

A
B
C
D
E
F
G
H
I
J

Quant Time: Nov 04 00:50:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	168827	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	353605	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	335031	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	125105	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	126365	59.972	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	119.940%
35) Dibromofluoromethane	7.634	113	119345	53.085	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	106.160%
50) Toluene-d8	10.103	98	446124	49.852	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.700%
62) 4-Bromofluorobenzene	12.401	95	141456	48.665	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	97.340%

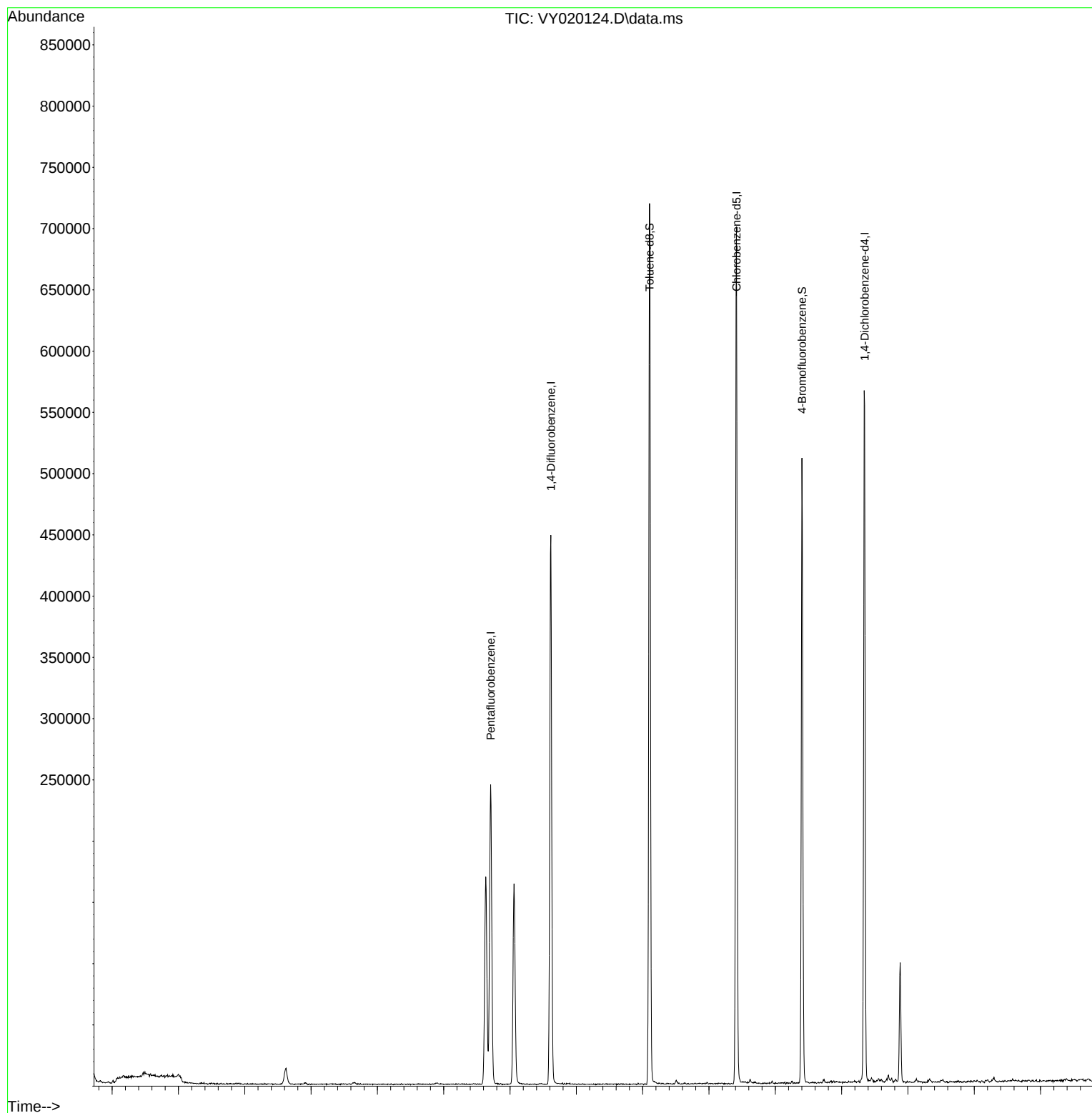
Target Compounds	Qvalue

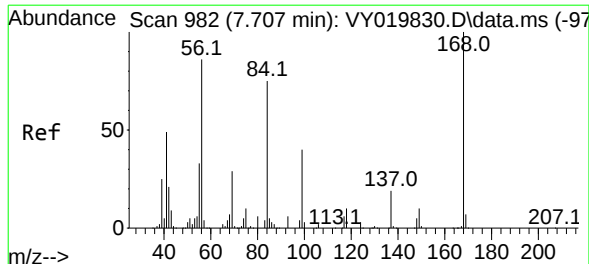
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020124.D
Acq On : 01 Nov 2024 17:07
Operator : SY/MD
Sample : P4663-07
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Quant Time: Nov 04 00:50:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

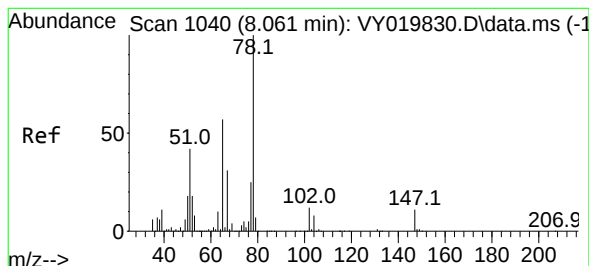
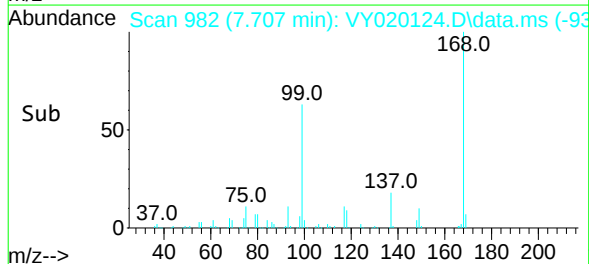
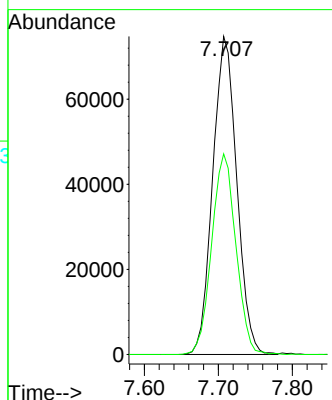
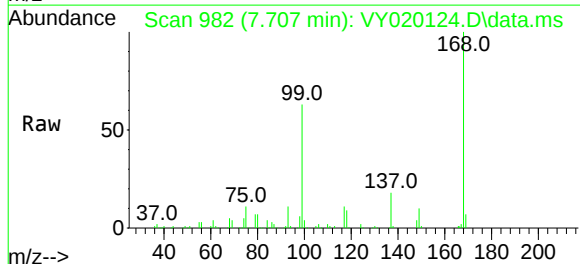




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

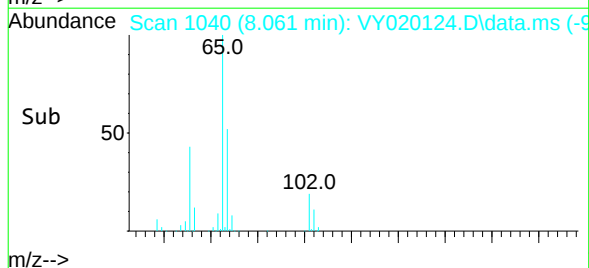
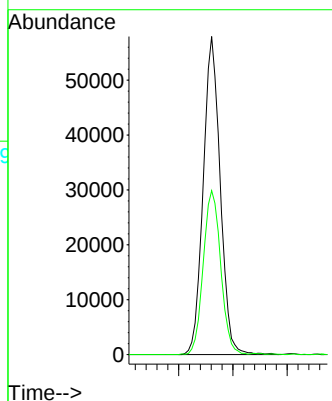
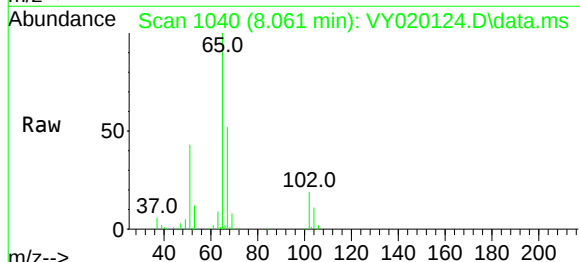
Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

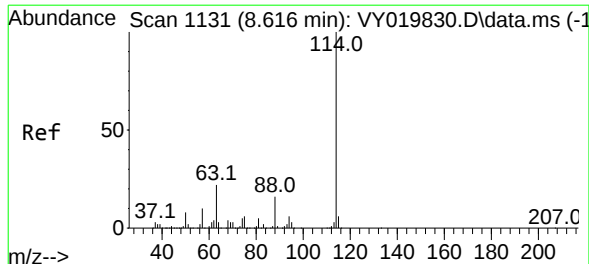
Tgt Ion: 168 Resp: 168827
Ion Ratio Lower Upper
168 100
99 63.1 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 59.972 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Tgt Ion: 65 Resp: 126365
Ion Ratio Lower Upper
65 100
67 52.9 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY020124.D

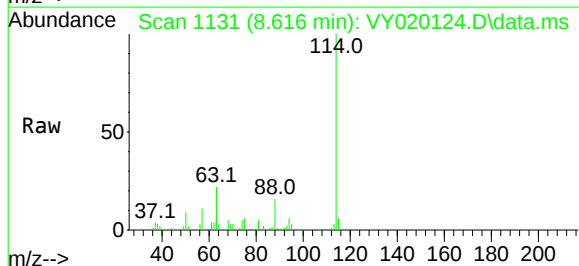
Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_Y

ClientSampleId :

RES-BUILDING-PAD-NO-2



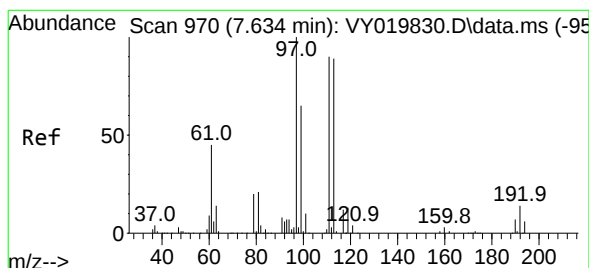
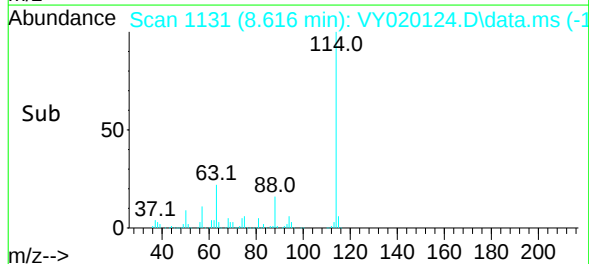
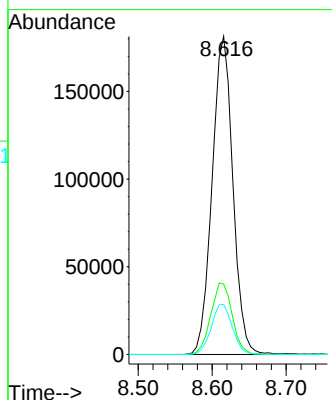
Tgt Ion:114 Resp: 353605

Ion Ratio Lower Upper

114 100

63 22.2 0.0 35.0

88 15.8 0.0 27.2



#35

Dibromofluoromethane

Concen: 53.085 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY020124.D

Acq: 01 Nov 2024 17:07

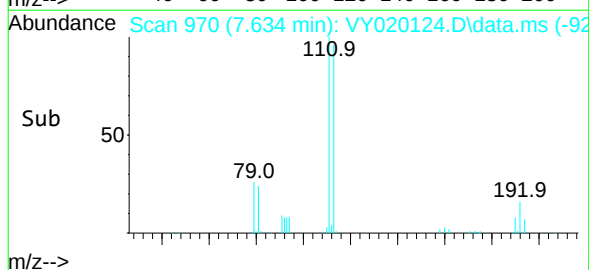
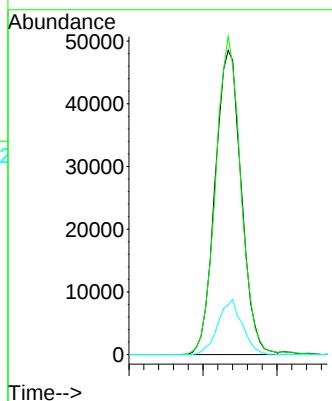
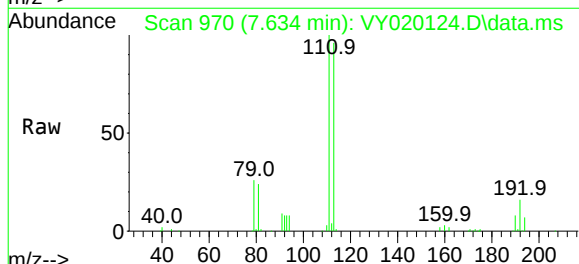
Tgt Ion:113 Resp: 119345

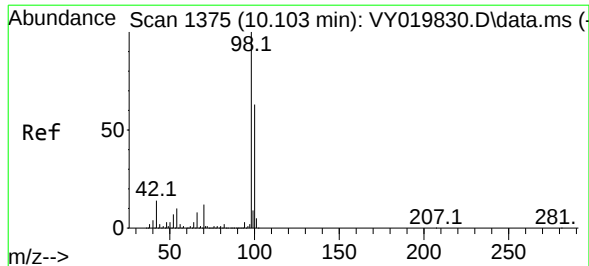
Ion Ratio Lower Upper

113 100

111 101.1 82.2 123.4

192 16.8 15.9 23.9





#50

Toluene-d8

Concen: 49.852 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY020124.D

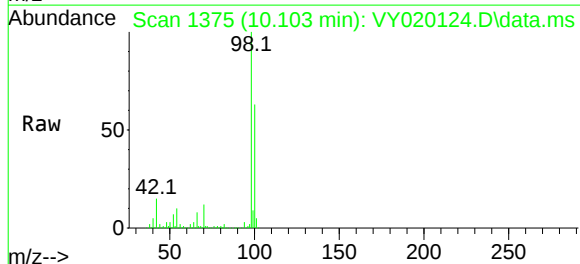
Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_Y

ClientSampleId :

RES-BUILDING-PAD-NO-2

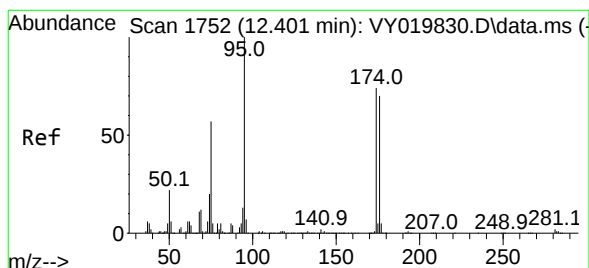
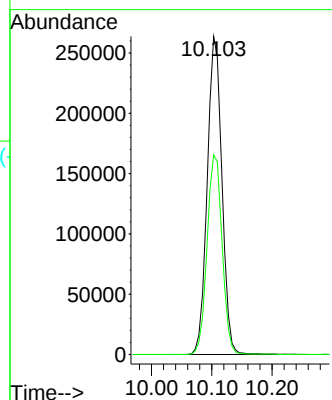
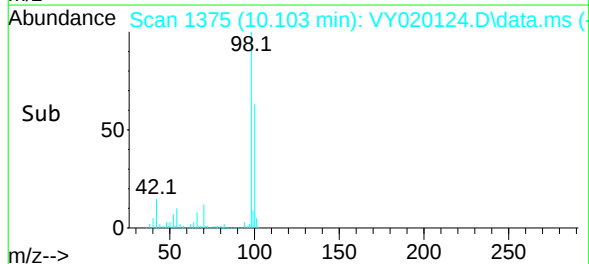


Tgt Ion: 98 Resp: 446124

Ion Ratio Lower Upper

98 100

100 64.4 52.0 78.0



#62

4-Bromofluorobenzene

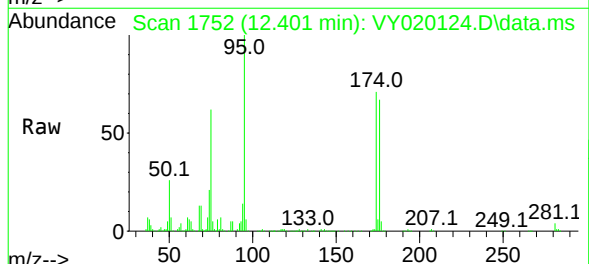
Concen: 48.665 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY020124.D

Acq: 01 Nov 2024 17:07



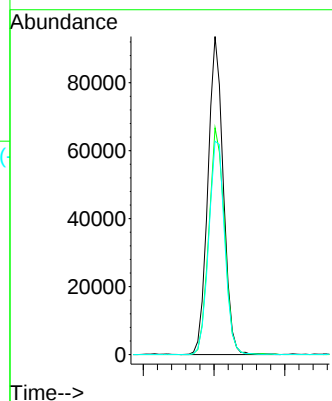
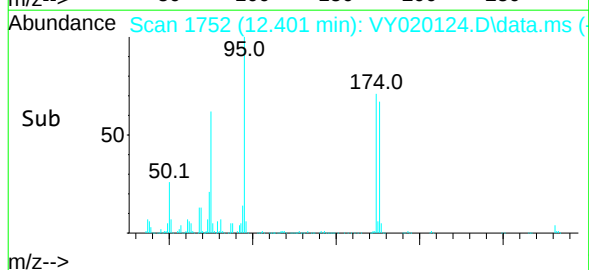
Tgt Ion: 95 Resp: 141456

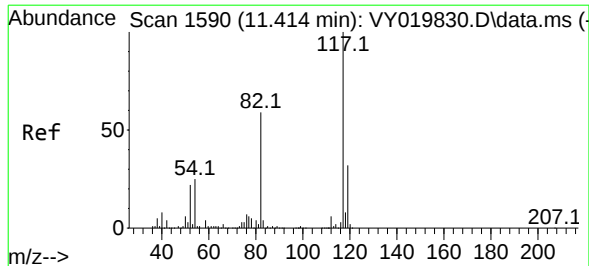
Ion Ratio Lower Upper

95 100

174 72.3 0.0 175.6

176 69.7 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY020124.D

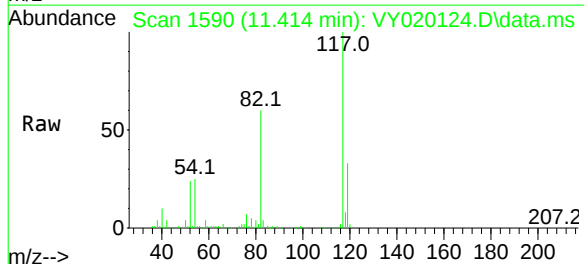
Acq: 01 Nov 2024 17:07

Instrument :

MSVOA_Y

ClientSampleId :

RES-BUILDING-PAD-NO-2



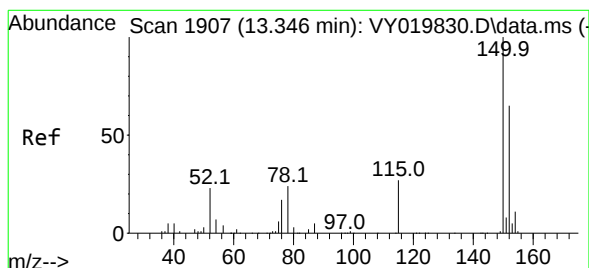
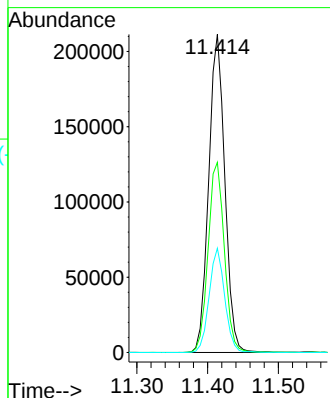
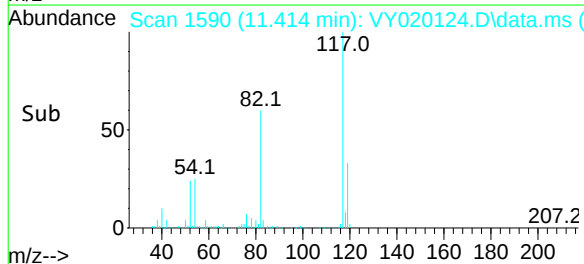
Tgt Ion:117 Resp: 335031

Ion Ratio Lower Upper

117 100

82 59.8 42.4 63.6

119 32.8 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY020124.D

Acq: 01 Nov 2024 17:07

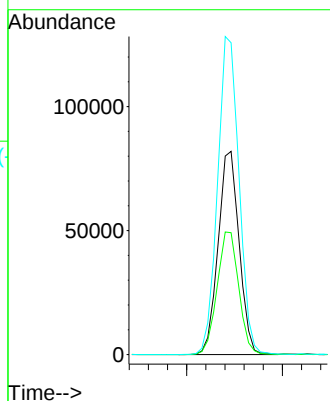
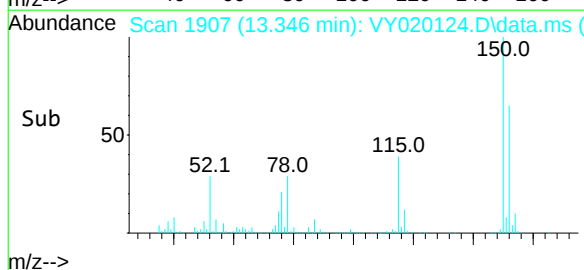
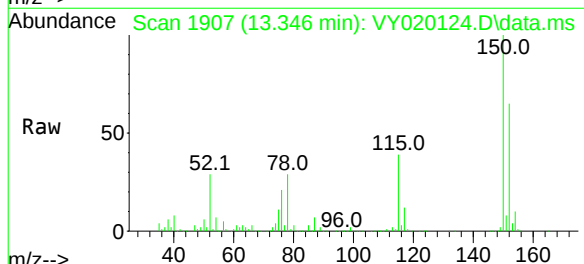
Tgt Ion:152 Resp: 125105

Ion Ratio Lower Upper

152 100

115 62.1 28.2 84.7

150 159.4 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020110.D
Acq On : 01 Nov 2024 09:42
Operator : SY/MD
Sample : VY1101SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Quant Time: Nov 01 16:02:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	193272	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	403931	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	365454	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	125829	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	138556	57.441	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	114.880%
35) Dibromofluoromethane	7.634	113	132476	51.584	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.160%
50) Toluene-d8	10.103	98	500171	48.928	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.860%
62) 4-Bromofluorobenzene	12.402	95	147112	44.305	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	88.620%

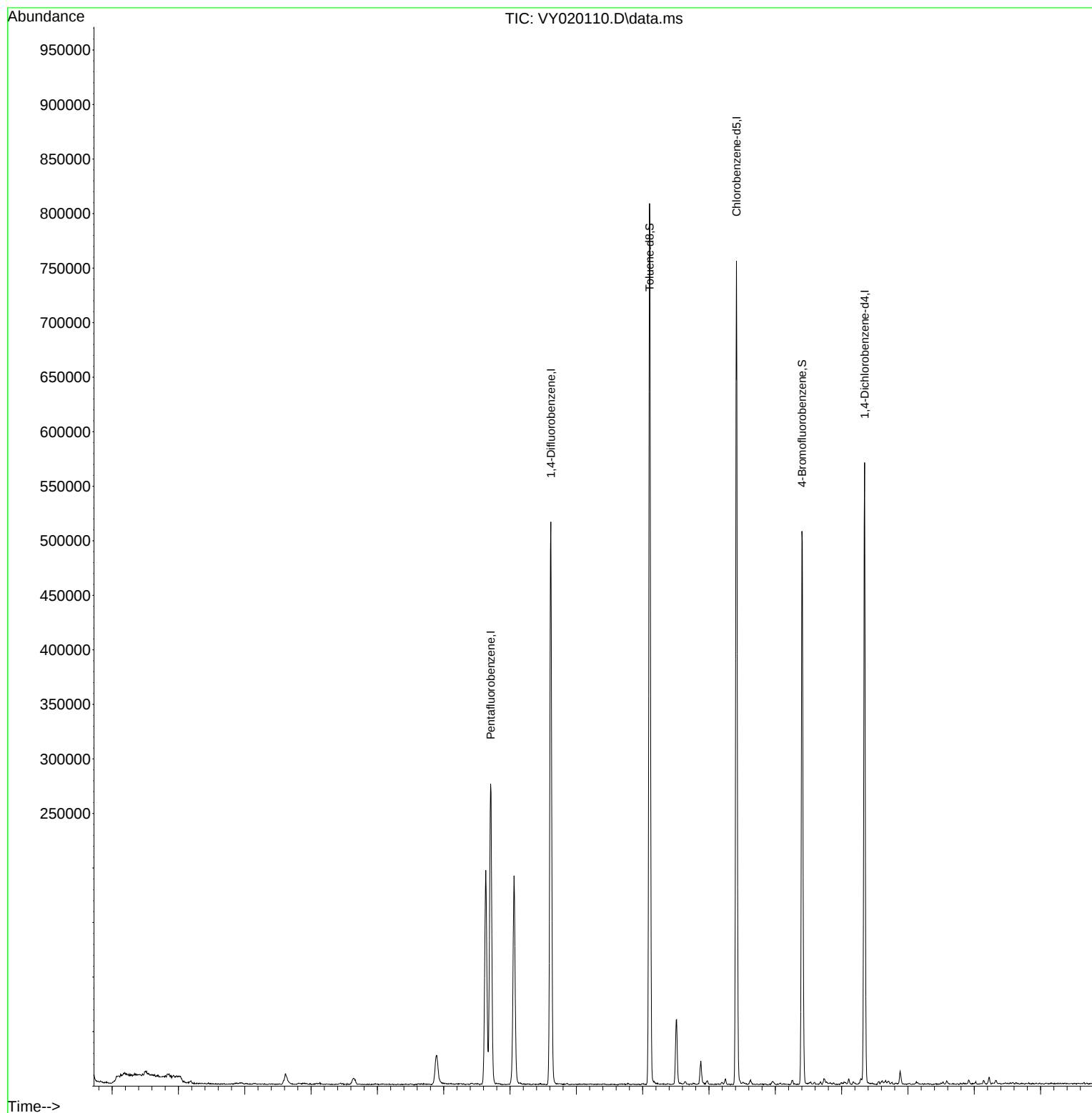
Target Compounds	Qvalue

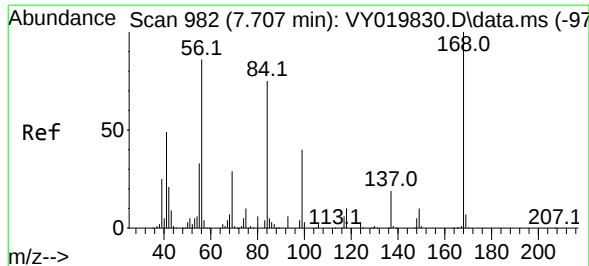
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020110.D
Acq On : 01 Nov 2024 09:42
Operator : SY/MD
Sample : VY1101SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Quant Time: Nov 01 16:02:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

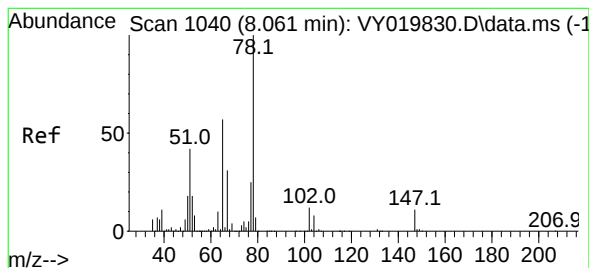
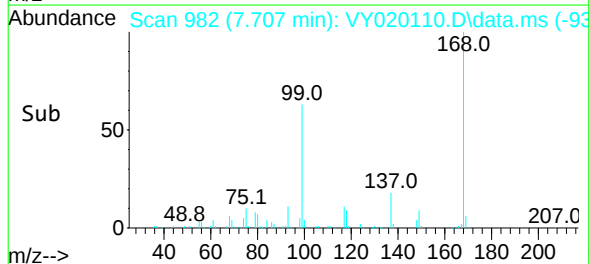
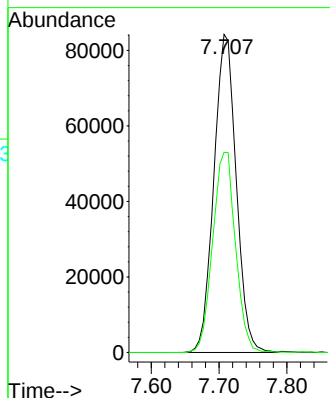
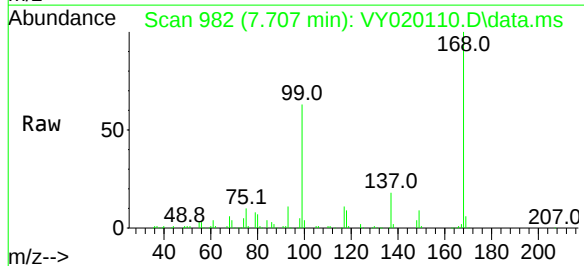




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

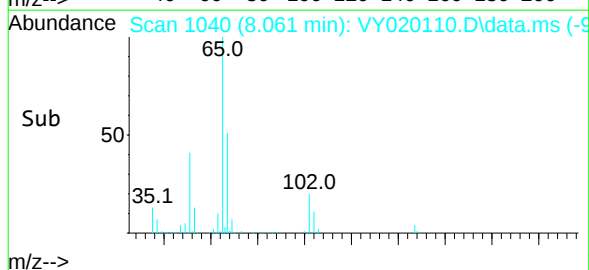
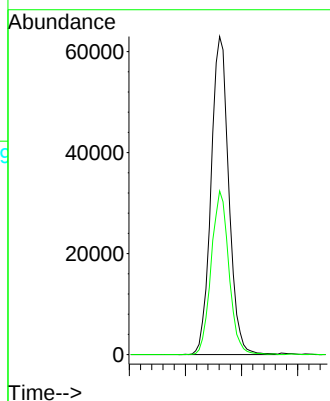
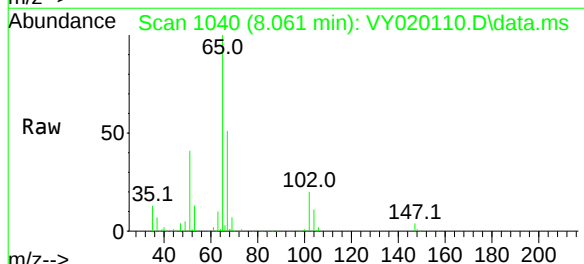
Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

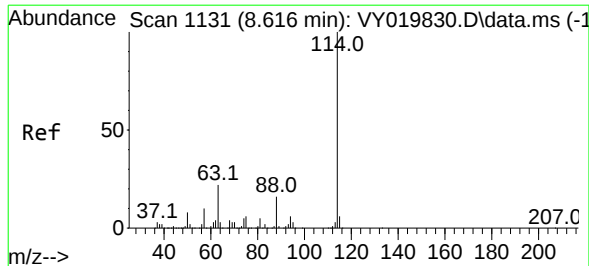
Tgt Ion: 168 Resp: 193272
Ion Ratio Lower Upper
168 100
99 63.0 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 57.441 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Tgt Ion: 65 Resp: 138556
Ion Ratio Lower Upper
65 100
67 51.3 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY020110.D

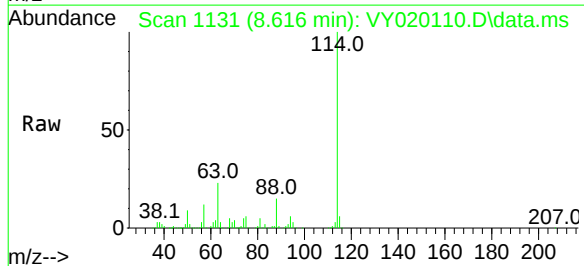
Acq: 01 Nov 2024 09:42

Instrument :

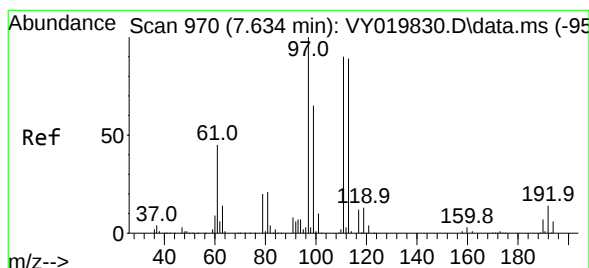
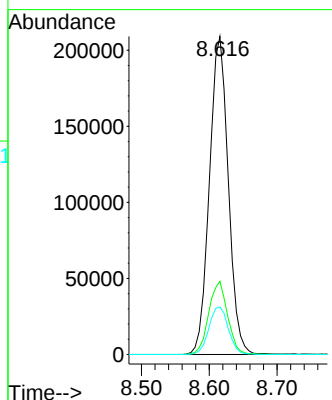
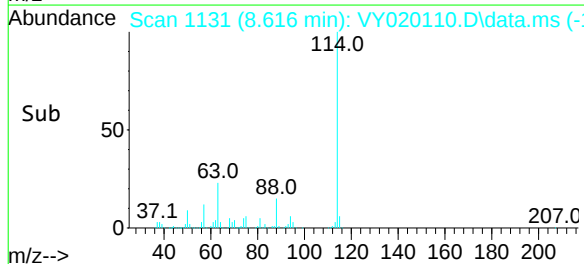
MSVOA_Y

ClientSampleId :

VY1101SBL01



Tgt Ion:	114	Resp:	403931
Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	35.0
88	15.0	0.0	27.2



#35

Dibromofluoromethane

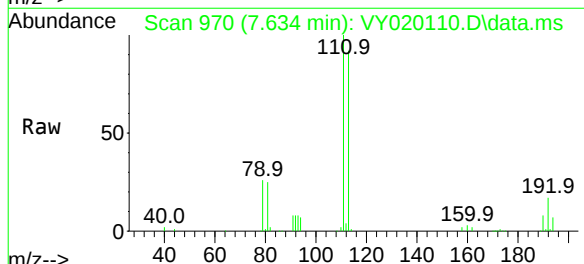
Concen: 51.584 ug/l

RT: 7.634 min Scan# 970

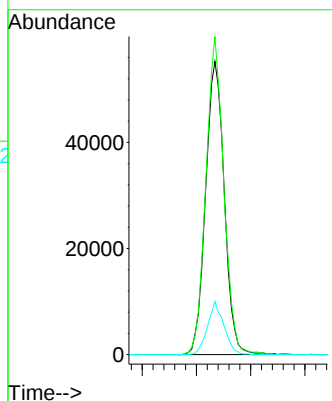
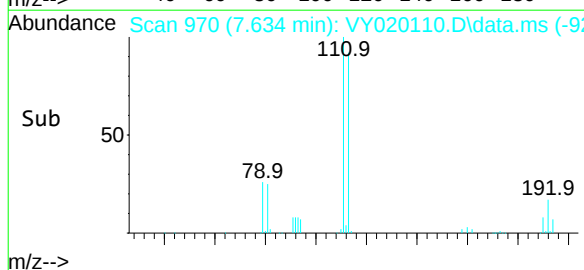
Delta R.T. 0.000 min

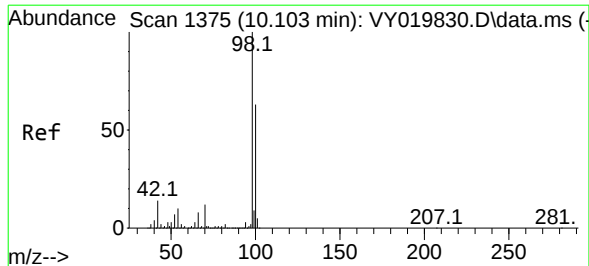
Lab File: VY020110.D

Acq: 01 Nov 2024 09:42



Tgt Ion:	113	Resp:	132476
Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.2	123.4
192	15.9	15.9	23.9





#50

Toluene-d8

Concen: 48.928 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY020110.D

Acq: 01 Nov 2024 09:42

Instrument :

MSVOA_Y

ClientSampleId :

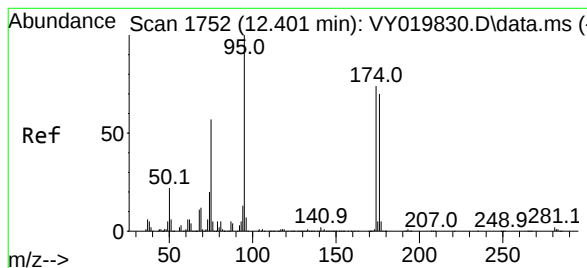
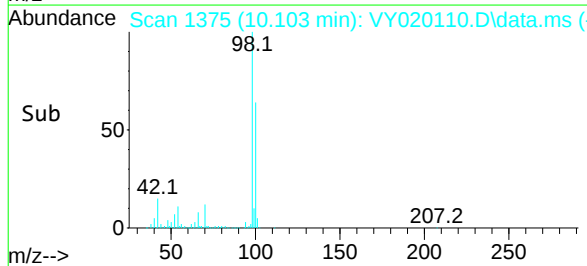
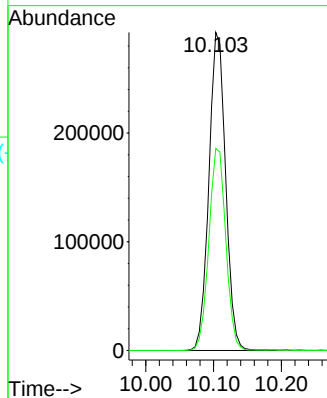
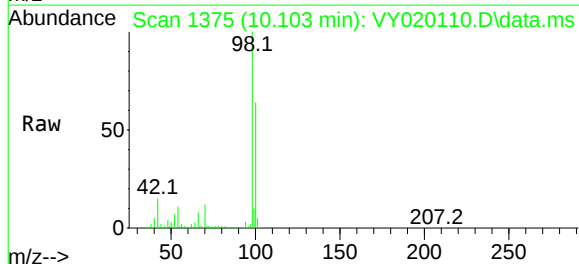
VY1101SBL01

Tgt Ion: 98 Resp: 500171

Ion Ratio Lower Upper

98 100

100 64.4 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 44.305 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY020110.D

Acq: 01 Nov 2024 09:42

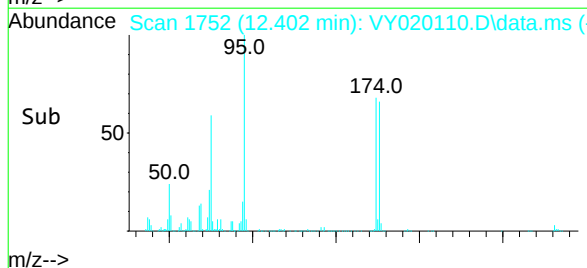
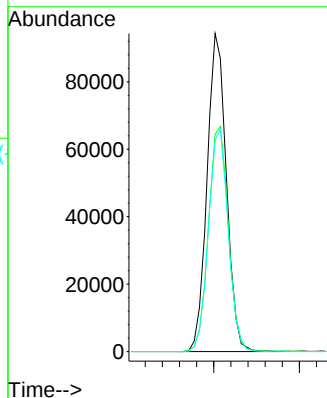
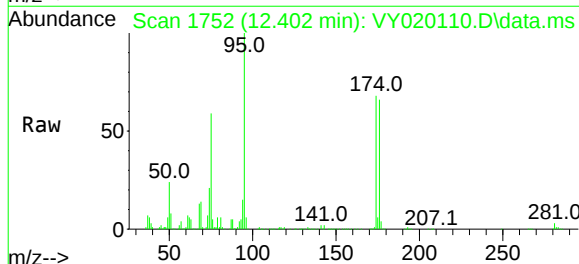
Tgt Ion: 95 Resp: 147112

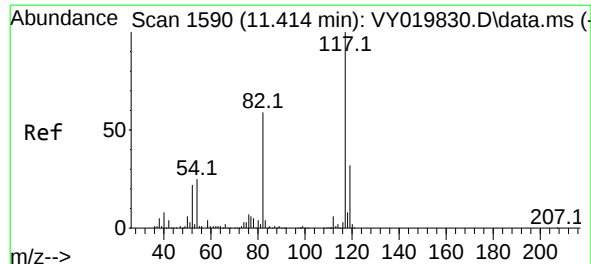
Ion Ratio Lower Upper

95 100

174 73.2 0.0 175.6

176 71.5 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY020110.D

Acq: 01 Nov 2024 09:42

Instrument :

MSVOA_Y

ClientSampleId :

VY1101SBL01

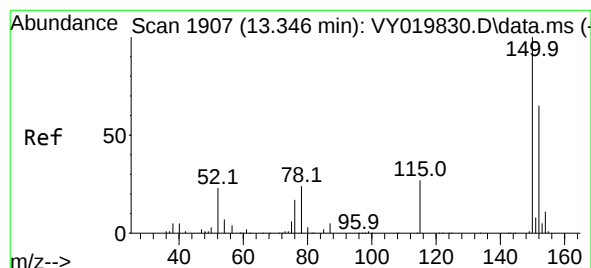
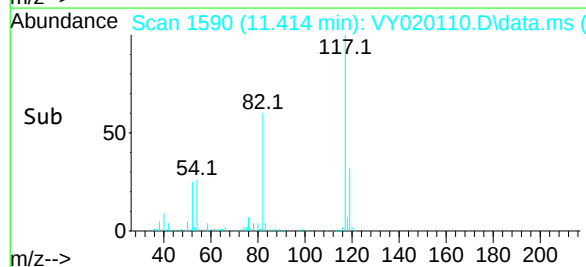
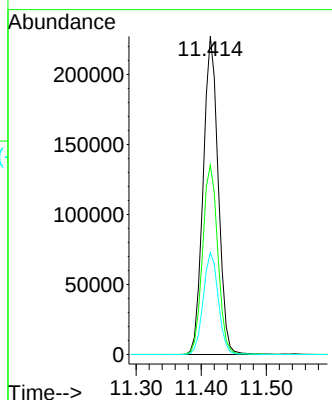
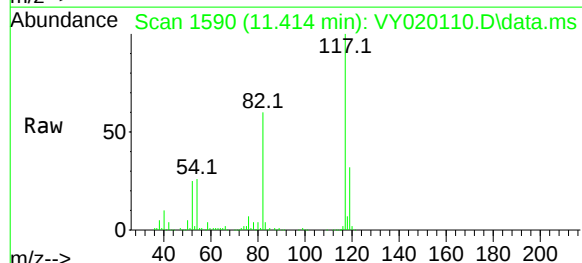
Tgt Ion:117 Resp: 365454

Ion Ratio Lower Upper

117 100

82 59.5 42.4 63.6

119 32.1 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY020110.D

Acq: 01 Nov 2024 09:42

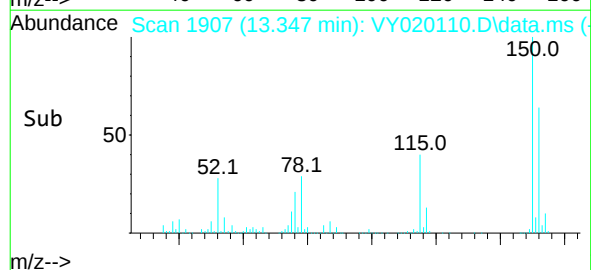
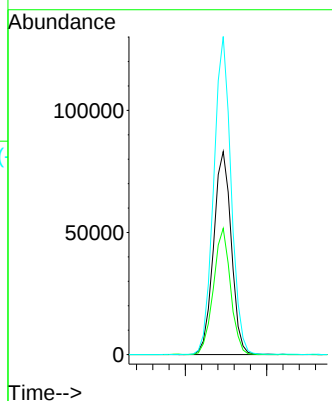
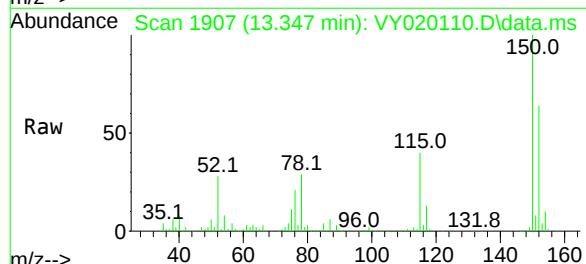
Tgt Ion:152 Resp: 125829

Ion Ratio Lower Upper

152 100

115 60.0 28.2 84.7

150 153.7 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
 Data File : VY020111.D
 Acq On : 01 Nov 2024 10:33
 Operator : SY/MD
 Sample : VY1101SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1101SBS01

Quant Time: Nov 01 16:02:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	224649	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	413315	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	362345	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	169895	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	166614	59.425	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	118.860%
35) Dibromofluoromethane	7.634	113	148968	56.688	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	113.380%
50) Toluene-d8	10.109	98	604944	57.834	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	115.660%
62) 4-Bromofluorobenzene	12.402	95	190261	55.999	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	112.000%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	43553	20.944	ug/l	97
3) Chloromethane	2.068	50	76113	22.097	ug/l	97
4) Vinyl Chloride	2.202	62	79270	21.437	ug/l	99
5) Bromomethane	2.592	94	52391	21.340	ug/l	96
6) Chloroethane	2.733	64	53086	22.245	ug/l	97
7) Trichlorofluoromethane	3.056	101	100070	22.152	ug/l	99
8) Diethyl Ether	3.458	74	27813	22.075	ug/l	72
9) 1,1,2-Trichlorotrifluo...	3.818	101	53143	20.974	ug/l	90
10) Methyl Iodide	4.007	142	51383	21.005	ug/l #	90
11) Tert butyl alcohol	4.860	59	20620	102.243	ug/l #	91
12) 1,1-Dichloroethene	3.787	96	51636	21.300	ug/l	83
13) Acrolein	3.653	56	28586	113.863	ug/l	99
14) Allyl chloride	4.385	41	96060	21.963	ug/l #	90
15) Acrylonitrile	5.061	53	61498	107.229	ug/l	94
16) Acetone	3.867	43	67421	103.402	ug/l #	84
17) Carbon Disulfide	4.110	76	169096	20.960	ug/l	100
18) Methyl Acetate	4.379	43	34068	22.269	ug/l #	89
19) Methyl tert-butyl Ether	5.110	73	134715	22.088	ug/l	97
20) Methylene Chloride	4.616	84	60861	20.778	ug/l #	83
21) trans-1,2-Dichloroethene	5.110	96	57853	21.160	ug/l	87
22) Diisopropyl ether	6.019	45	206989	22.805	ug/l #	88
23) Vinyl Acetate	5.958	43	549887	107.653	ug/l #	91
24) 1,1-Dichloroethane	5.915	63	117253	22.310	ug/l	96
25) 2-Butanone	6.890	43	95334	107.862	ug/l #	81
26) 2,2-Dichloropropane	6.878	77	92994	21.266	ug/l	93
27) cis-1,2-Dichloroethene	6.890	96	68959	21.942	ug/l	83
28) Bromochloromethane	7.244	49	53021	21.545	ug/l #	68
29) Tetrahydrofuran	7.262	42	55178	108.176	ug/l #	82
30) Chloroform	7.421	83	114090	21.876	ug/l	100
31) Cyclohexane	7.701	56	104094	20.459	ug/l	88
32) 1,1,1-Trichloroethane	7.616	97	98057	21.535	ug/l #	94
36) 1,1-Dichloropropene	7.835	75	84599	20.840	ug/l	94
37) Ethyl Acetate	6.982	43	37423	19.336	ug/l	94
38) Carbon Tetrachloride	7.817	117	82731	20.267	ug/l	99
39) Methylcyclohexane	9.110	83	102064	19.810	ug/l #	88
40) Benzene	8.079	78	248919	21.008	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
 Data File : VY020111.D
 Acq On : 01 Nov 2024 10:33
 Operator : SY/MD
 Sample : VY1101SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1101SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 16:02:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	17316	17.861	ug/l	94
42) 1,2-Dichloroethane	8.152	62	69601	21.222	ug/l	95
43) Isopropyl Acetate	8.195	43	79732	21.423	ug/l #	75
44) Trichloroethene	8.866	130	56824	20.692	ug/l	85
45) 1,2-Dichloropropane	9.140	63	59850	21.112	ug/l	98
46) Dibromomethane	9.231	93	31787	20.694	ug/l	91
47) Bromodichloromethane	9.420	83	87303	21.696	ug/l	99
48) Methyl methacrylate	9.219	41	35245	20.445	ug/l #	83
49) 1,4-Dioxane	9.231	88	7228	457.054	ug/l #	92
51) 4-Methyl-2-Pentanone	10.000	43	202015	105.344	ug/l	88
52) Toluene	10.170	92	153958	21.079	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	73069	20.563	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	90424	21.320	ug/l #	82
55) 1,1,2-Trichloroethane	10.573	97	39841	20.861	ug/l	93
56) Ethyl methacrylate	10.439	69	58231	21.255	ug/l #	72
57) 1,3-Dichloropropane	10.713	76	74262	21.233	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	137917	102.079	ug/l	92
59) 2-Hexanone	10.762	43	144386	105.021	ug/l	85
60) Dibromochloromethane	10.908	129	51480	21.146	ug/l	98
61) 1,2-Dibromoethane	11.012	107	36801	20.740	ug/l	99
64) Tetrachloroethene	10.646	164	49089	20.518	ug/l	87
65) Chlorobenzene	11.438	112	161689	20.942	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	51494	20.876	ug/l	99
67) Ethyl Benzene	11.518	91	294374	20.397	ug/l	98
68) m/p-Xylenes	11.627	106	219831	41.632	ug/l	92
69) o-Xylene	11.950	106	100601	20.123	ug/l	90
70) Styrene	11.969	104	172290	20.844	ug/l	95
71) Bromoform	12.133	173	25970	20.522	ug/l #	98
73) Isopropylbenzene	12.255	105	273660	20.163	ug/l	98
74) N-amyl acetate	12.066	43	67912	20.017	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	47830	20.151	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	40589m	25.486	ug/l	
77) Bromobenzene	12.530	156	56489	20.580	ug/l	84
78) n-propylbenzene	12.591	91	343058	20.310	ug/l	97
79) 2-Chlorotoluene	12.676	91	191589	20.434	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	219147	20.112	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.298	75	14816	20.011	ug/l #	80
82) 4-Chlorotoluene	12.780	91	198314	20.744	ug/l	96
83) tert-Butylbenzene	12.993	119	198114	20.793	ug/l	95
84) 1,2,4-Trimethylbenzene	13.042	105	221252	20.501	ug/l	95
85) sec-Butylbenzene	13.176	105	297388	20.332	ug/l	97
86) p-Isopropyltoluene	13.292	119	236835	20.178	ug/l	95
87) 1,3-Dichlorobenzene	13.286	146	114852	20.597	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	114724	20.660	ug/l	95
89) n-Butylbenzene	13.615	91	235328	20.000	ug/l	97
90) Hexachloroethane	13.877	117	46384	19.982	ug/l	82
91) 1,2-Dichlorobenzene	13.657	146	100967	20.832	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6796	18.879	ug/l	77
93) 1,2,4-Trichlorobenzene	14.919	180	50751	19.492	ug/l	96
94) Hexachlorobutadiene	15.023	225	27042	18.993	ug/l	97
95) Naphthalene	15.145	128	90580	18.611	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	41632	18.837	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020111.D
Acq On : 01 Nov 2024 10:33
Operator : SY/MD
Sample : VY1101SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBS01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 16:02:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

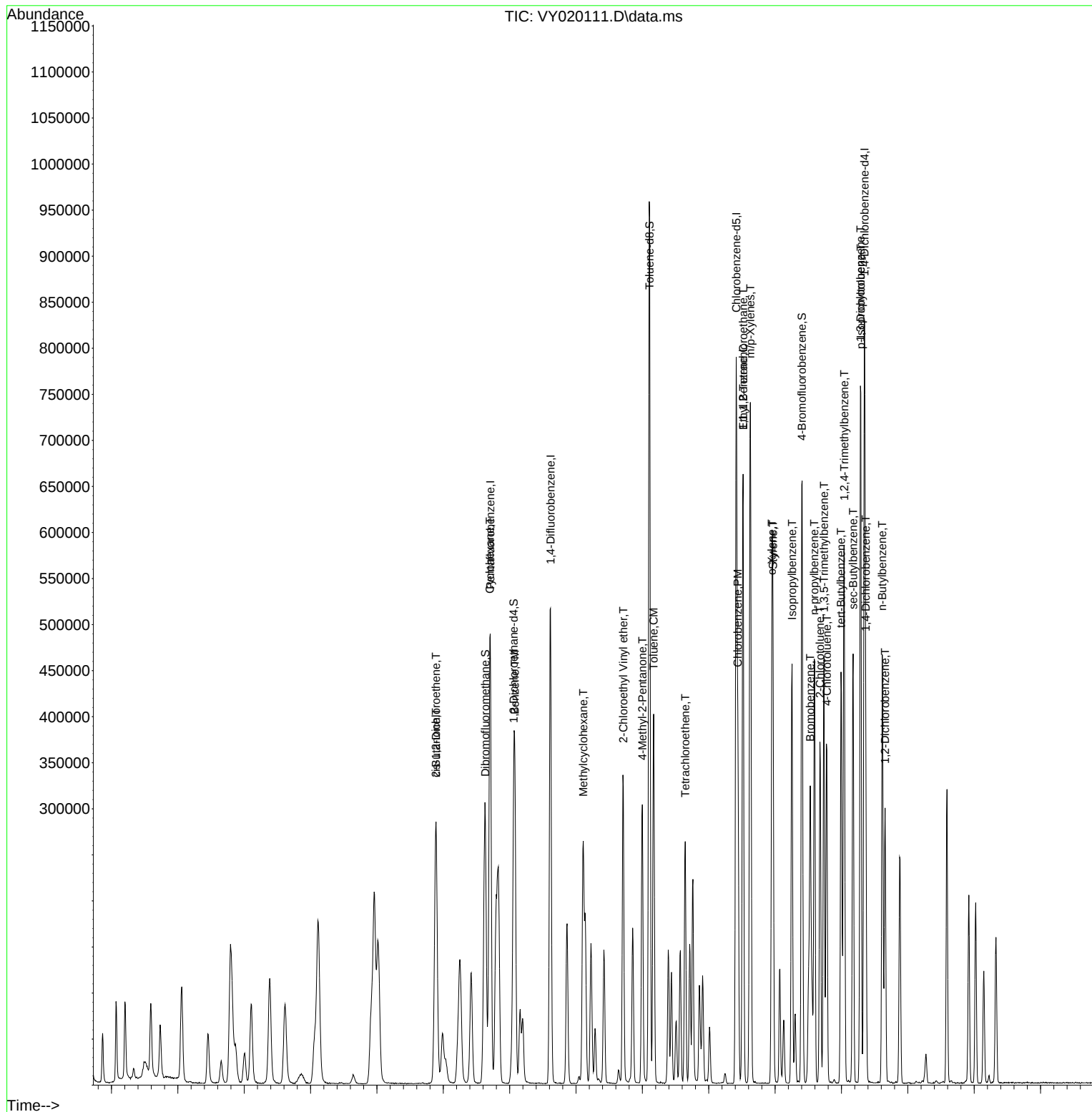
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
 Data File : VY020112.D
 Acq On : 01 Nov 2024 11:12
 Operator : SY/MD
 Sample : VY1101SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1101SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 16:02:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	251864	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	454799	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	392733	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	182188	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	164194	52.234	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	104.460%
35) Dibromofluoromethane	7.634	113	149298	51.632	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.260%
50) Toluene-d8	10.103	98	592808	51.504	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	103.000%
62) 4-Bromofluorobenzene	12.401	95	191535	51.232	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	102.460%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	47830	20.515	ug/l	96
3) Chloromethane	2.068	50	85457	22.129	ug/l	98
4) Vinyl Chloride	2.208	62	88435	21.331	ug/l	99
5) Bromomethane	2.592	94	56487	20.522	ug/l	97
6) Chloroethane	2.739	64	56823	21.238	ug/l	98
7) Trichlorofluoromethane	3.062	101	109471	21.615	ug/l	99
8) Diethyl Ether	3.464	74	30708	21.739	ug/l	72
9) 1,1,2-Trichlorotrifluo...	3.812	101	61078	21.501	ug/l	89
10) Methyl Iodide	4.007	142	55452	20.219	ug/l	90
11) Tert butyl alcohol	4.854	59	22527	99.629	ug/l #	80
12) 1,1-Dichloroethene	3.793	96	56492	20.785	ug/l #	75
13) Acrolein	3.653	56	28044	99.634	ug/l	97
14) Allyl chloride	4.385	41	104832	21.378	ug/l #	87
15) Acrylonitrile	5.055	53	70794	110.100	ug/l	96
16) Acetone	3.866	43	77256	105.683	ug/l #	81
17) Carbon Disulfide	4.110	76	188179	20.805	ug/l	98
18) Methyl Acetate	4.385	43	37554	21.895	ug/l #	86
19) Methyl tert-butyl Ether	5.116	73	143362	20.966	ug/l #	89
20) Methylene Chloride	4.616	84	64546	19.655	ug/l #	85
21) trans-1,2-Dichloroethene	5.110	96	64187	20.940	ug/l	87
22) Diisopropyl ether	6.018	45	220719	21.690	ug/l #	87
23) Vinyl Acetate	5.957	43	608830	106.313	ug/l #	89
24) 1,1-Dichloroethane	5.915	63	124177	21.074	ug/l	95
25) 2-Butanone	6.890	43	104678	105.636	ug/l #	81
26) 2,2-Dichloropropane	6.890	77	98522	20.096	ug/l	95
27) cis-1,2-Dichloroethene	6.890	96	73054	20.733	ug/l	80
28) Bromochloromethane	7.244	49	55177	19.998	ug/l #	70
29) Tetrahydrofuran	7.262	42	63063	110.276	ug/l #	81
30) Chloroform	7.421	83	126158	21.576	ug/l	97
31) Cyclohexane	7.701	56	116316	20.390	ug/l	91
32) 1,1,1-Trichloroethane	7.616	97	105811	20.727	ug/l #	91
36) 1,1-Dichloropropene	7.835	75	93074	20.837	ug/l	94
37) Ethyl Acetate	6.982	43	44255	20.780	ug/l	96
38) Carbon Tetrachloride	7.817	117	92914	20.685	ug/l	96
39) Methylcyclohexane	9.109	83	111516	19.670	ug/l #	85
40) Benzene	8.079	78	273192	20.954	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
 Data File : VY020112.D
 Acq On : 01 Nov 2024 11:12
 Operator : SY/MD
 Sample : VY1101SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1101SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 16:02:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	25489m	23.893	ug/l	
42) 1,2-Dichloroethane	8.158	62	75857	21.019	ug/l	95
43) Isopropyl Acetate	8.195	43	84516	20.638	ug/l #	75
44) Trichloroethene	8.866	130	61488	20.348	ug/l	89
45) 1,2-Dichloropropane	9.140	63	65053	20.855	ug/l	98
46) Dibromomethane	9.231	93	34756	20.563	ug/l	89
47) Bromodichloromethane	9.420	83	93390	21.091	ug/l	95
48) Methyl methacrylate	9.219	41	40172	21.178	ug/l #	80
49) 1,4-Dioxane	9.225	88	7810	448.810	ug/l #	95
51) 4-Methyl-2-Pentanone	9.999	43	223752	106.036	ug/l	90
52) Toluene	10.170	92	167875	20.888	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	78150	19.987	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	95813	20.530	ug/l #	81
55) 1,1,2-Trichloroethane	10.573	97	45298	21.555	ug/l	97
56) Ethyl methacrylate	10.438	69	63053	20.916	ug/l #	71
57) 1,3-Dichloropropane	10.713	76	80250	20.852	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	146757	98.714	ug/l	92
59) 2-Hexanone	10.762	43	159152	105.202	ug/l	86
60) Dibromochloromethane	10.908	129	56022	20.913	ug/l	99
61) 1,2-Dibromoethane	11.011	107	39474	20.218	ug/l	100
64) Tetrachloroethene	10.646	164	53069	20.466	ug/l	94
65) Chlorobenzene	11.438	112	172657	20.632	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.511	131	55350	20.703	ug/l	98
67) Ethyl Benzene	11.517	91	324663	20.755	ug/l	97
68) m/p-Xylenes	11.627	106	237210	41.447	ug/l	91
69) o-Xylene	11.956	106	111670	20.609	ug/l	91
70) Styrene	11.969	104	189945	21.201	ug/l	95
71) Bromoform	12.133	173	28568	20.828	ug/l #	96
73) Isopropylbenzene	12.255	105	303557	20.857	ug/l	97
74) N-ethyl acetate	12.066	43	75483	20.748	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	52145	20.486	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	37821m	22.146	ug/l	
77) Bromobenzene	12.529	156	62359	21.186	ug/l	84
78) n-propylbenzene	12.597	91	375651	20.739	ug/l	97
79) 2-Chlorotoluene	12.676	91	209016	20.788	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	242364	20.742	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	15768	19.859	ug/l #	84
82) 4-Chlorotoluene	12.779	91	217329	21.199	ug/l	93
83) tert-Butylbenzene	12.999	119	217152	21.253	ug/l	96
84) 1,2,4-Trimethylbenzene	13.042	105	239773	20.718	ug/l	96
85) sec-Butylbenzene	13.176	105	322465	20.558	ug/l	98
86) p-Isopropyltoluene	13.292	119	259203	20.593	ug/l	96
87) 1,3-Dichlorobenzene	13.285	146	123042	20.577	ug/l	95
88) 1,4-Dichlorobenzene	13.365	146	124778	20.954	ug/l	95
89) n-Butylbenzene	13.615	91	257363	20.397	ug/l	97
90) Hexachloroethane	13.883	117	50466	20.273	ug/l	84
91) 1,2-Dichlorobenzene	13.657	146	110759	21.310	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8060	20.880	ug/l	70
93) 1,2,4-Trichlorobenzene	14.919	180	55968	20.045	ug/l	97
94) Hexachlorobutadiene	15.023	225	29929	19.603	ug/l	98
95) Naphthalene	15.145	128	103880	19.903	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	47837	20.184	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020112.D
Acq On : 01 Nov 2024 11:12
Operator : SY/MD
Sample : VY1101SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBSD01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 16:02:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 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

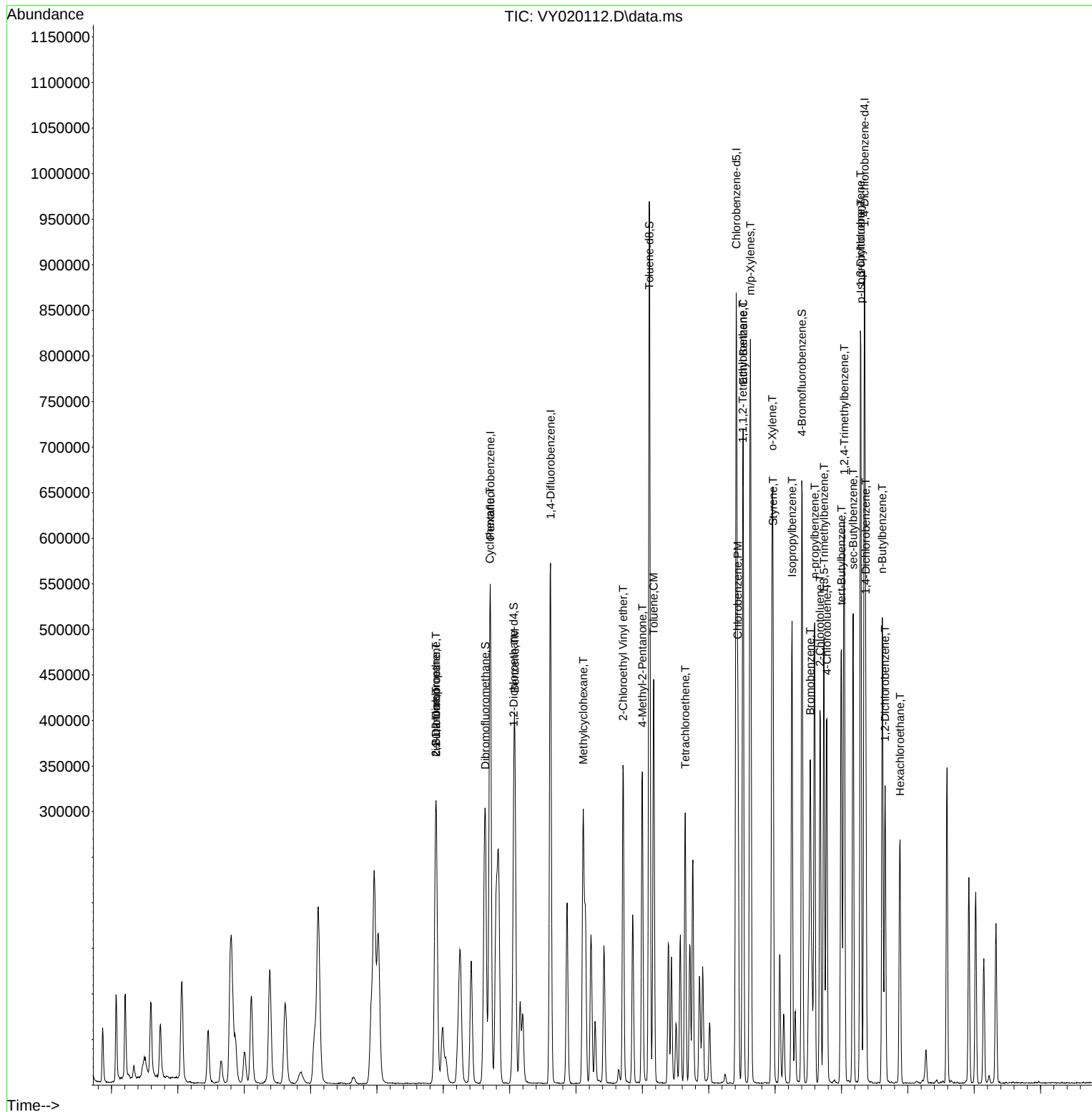
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020112.D
Acq On : 01 Nov 2024 11:12
Operator : SY/MD
Sample : VY1101SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBSD01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 16:02:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



Manual Integration Report

Sequence:	VY103024	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VY020075.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDIC005	VY020075.D	Ethyl Acetate	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDIC010	VY020076.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:32 AM	MMDadoda	11/1/2024 5:33:22 PM	Peak Integrated by Software
VSTDIC020	VY020077.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:16 AM	MMDadoda	11/1/2024 5:33:23 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	Methacrylonitrile	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDIC100	VY020079.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:20 AM	MMDadoda	11/1/2024 5:33:26 PM	Peak Integrated by Software
VSTDIC150	VY020080.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:07 AM	MMDadoda	11/1/2024 5:33:28 PM	Peak Integrated by Software
VSTDICV050	VY020082.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:10 AM	MMDadoda	11/1/2024 5:33:29 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY110124	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020109.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:37 PM	MMDadoda	11/4/2024 5:56:09 PM	Peak Integrated by Software
VY1101SBS01	VY020111.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:33 PM	MMDadoda	11/4/2024 5:56:10 PM	Peak Integrated by Software
VY1101SBSD0 1	VY020112.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:29 PM	MMDadoda	11/4/2024 5:56:13 PM	Peak Integrated by Software
VY1101SBSD0 1	VY020112.D	Methacrylonitrile	Romaben	11/4/2024 3:49:29 PM	MMDadoda	11/4/2024 5:56:13 PM	Peak Integrated by Software
VSTDCCC050	VY020131.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:16 PM	MMDadoda	11/4/2024 5:56:22 PM	Peak Integrated by Software

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:33:31 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM
SubDirectory	VY103024	HP Acquire Method	HP Processing Method 82y103024s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP131199		
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206		
CCC			
Internal Standard/PEM	VP128297		
ICV/I.BLK	VP131207		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020074.D	30 Oct 2024 12:07	SY/MD	Ok
2	VSTDIC005	VY020075.D	30 Oct 2024 12:39	SY/MD	Ok,M
3	VSTDIC010	VY020076.D	30 Oct 2024 13:02	SY/MD	Ok,M
4	VSTDIC020	VY020077.D	30 Oct 2024 13:24	SY/MD	Ok,M
5	VSTDIC050	VY020078.D	30 Oct 2024 14:06	SY/MD	Ok,M
6	VSTDIC100	VY020079.D	30 Oct 2024 14:29	SY/MD	Ok,M
7	VSTDIC150	VY020080.D	30 Oct 2024 14:52	SY/MD	Ok,M
8	VIBLK	VY020081.D	30 Oct 2024 15:15	SY/MD	Ok
9	VSTDICV050	VY020082.D	30 Oct 2024 15:47	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:56:28 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM
SubDirectory	VY110124	HP Acquire Method	HP Processing Method sfamwlm103024sma.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131240		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131241,VP131242 VP128297		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020108.D	01 Nov 2024 08:26	SY/MD	Ok
2	VSTDCCC050	VY020109.D	01 Nov 2024 09:02	SY/MD	Ok,M
3	VY1101SBL01	VY020110.D	01 Nov 2024 09:42	SY/MD	Ok
4	VY1101SBS01	VY020111.D	01 Nov 2024 10:33	SY/MD	Ok,M
5	VY1101SBSD01	VY020112.D	01 Nov 2024 11:12	SY/MD	Ok,M
6	P4611-01	VY020113.D	01 Nov 2024 11:35	SY/MD	Ok
7	P4611-04	VY020114.D	01 Nov 2024 11:59	SY/MD	Ok
8	P4611-07	VY020115.D	01 Nov 2024 12:34	SY/MD	Ok
9	P4611-10	VY020116.D	01 Nov 2024 14:00	SY/MD	Ok
10	P4611-13	VY020117.D	01 Nov 2024 14:23	SY/MD	Ok
11	P4611-16	VY020118.D	01 Nov 2024 14:46	SY/MD	Ok
12	P4640-03	VY020119.D	01 Nov 2024 15:10	SY/MD	Ok
13	P4639-01	VY020120.D	01 Nov 2024 15:33	SY/MD	Ok,M
14	P4617-01RE	VY020121.D	01 Nov 2024 15:57	SY/MD	Confirms
15	P4612-03RE	VY020122.D	01 Nov 2024 16:20	SY/MD	Confirms
16	P4613-01	VY020123.D	01 Nov 2024 16:43	SY/MD	Ok
17	P4663-07	VY020124.D	01 Nov 2024 17:07	SY/MD	Ok
18	P4643-03	VY020125.D	01 Nov 2024 17:30	SY/MD	Ok
19	P4643-07	VY020126.D	01 Nov 2024 17:54	SY/MD	Not Ok
20	P4643-11	VY020127.D	01 Nov 2024 18:17	SY/MD	Ok
21	P4663-01	VY020128.D	01 Nov 2024 18:41	SY/MD	Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY110124

Review By	Maresh Dadoda	Review On	11/4/2024 5:56:28 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM
SubDirectory	VY110124	HP Acquire Method	HP Processing Method sfamwlm103024sma.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131240		
CCC	VP131241,VP131242		
Internal Standard/PEM	VP128297		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4663-03	VY020129.D	01 Nov 2024 19:04	SY/MD	Ok
23	P4663-05	VY020130.D	01 Nov 2024 19:27	SY/MD	Ok
24	VSTDCCC050	VY020131.D	01 Nov 2024 19:50	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY103024

Review By	Maresh Dadoda	Review On	11/1/2024 5:33:31 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM
SubDirectory	VY103024	HP Acquire Method	HP Processing Method 82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131199
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP131207
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020074.D	30 Oct 2024 12:07		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020075.D	30 Oct 2024 12:39	Method pass	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY020076.D	30 Oct 2024 13:02		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020077.D	30 Oct 2024 13:24		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020078.D	30 Oct 2024 14:06		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020079.D	30 Oct 2024 14:29		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020080.D	30 Oct 2024 14:52		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020081.D	30 Oct 2024 15:15		SY/MD	Ok
9	VSTDICV050	ICVVY103024	VY020082.D	30 Oct 2024 15:47	fail icv	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY110124

Review By	Maresh Dadoda	Review On	11/4/2024 5:56:28 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM
SubDirectory	VY110124	HP Acquire Method	HP Processing Method sfamwlm103024sma.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131240		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131241,VP131242 VP128297		

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020108.D	01 Nov 2024 08:26		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020109.D	01 Nov 2024 09:02		SY/MD	Ok,M
3	VY1101SBL01	VY1101SBL01	VY020110.D	01 Nov 2024 09:42		SY/MD	Ok
4	VY1101SBS01	VY1101SBS01	VY020111.D	01 Nov 2024 10:33		SY/MD	Ok,M
5	VY1101SBSD01	VY1101SBSD01	VY020112.D	01 Nov 2024 11:12		SY/MD	Ok,M
6	P4611-01	TP-1	VY020113.D	01 Nov 2024 11:35	vial-A	SY/MD	Ok
7	P4611-04	TP-2	VY020114.D	01 Nov 2024 11:59	vial-A	SY/MD	Ok
8	P4611-07	TP-3	VY020115.D	01 Nov 2024 12:34	vial-A	SY/MD	Ok
9	P4611-10	TP-4	VY020116.D	01 Nov 2024 14:00	vial-A	SY/MD	Ok
10	P4611-13	TP-5	VY020117.D	01 Nov 2024 14:23	vial-A	SY/MD	Ok
11	P4611-16	TP-6	VY020118.D	01 Nov 2024 14:46	vial-A	SY/MD	Ok
12	P4640-03	MH-3-VOC	VY020119.D	01 Nov 2024 15:10	vial-A	SY/MD	Ok
13	P4639-01	EO-01-103024	VY020120.D	01 Nov 2024 15:33	vial-A	SY/MD	Ok,M
14	P4617-01RE	RO-SOILRE	VY020121.D	01 Nov 2024 15:57	vial-B ISTD Fail	SY/MD	Confirms
15	P4612-03RE	MOO-24-00335RE	VY020122.D	01 Nov 2024 16:20	vial-B ISTD Fail	SY/MD	Confirms
16	P4613-01	ARS20-0001	VY020123.D	01 Nov 2024 16:43	vial-B ISTD Fail	SY/MD	Ok
17	P4663-07	RES-BUILDING-PAD-N	VY020124.D	01 Nov 2024 17:07	vial-A	SY/MD	Ok
18	P4643-03	BP-F9-ADDITIONAL-V	VY020125.D	01 Nov 2024 17:30	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY110124

Review By	Maresh Dadoda	Review On	11/4/2024 5:56:28 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM
SubDirectory	VY110124	HP Acquire Method	HP Processing Method sfamwlm103024sma.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131240		
CCC	VP131241,VP131242		
Internal Standard/PEM	VP128297		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4643-07	BP-F8-VOC	VY020126.D	01 Nov 2024 17:54	Not purge vial-A	SY/MD	Not Ok
20	P4643-11	TP-9-VOC	VY020127.D	01 Nov 2024 18:17	vial-A	SY/MD	Ok
21	P4663-01	TENNANT-PAD-2-3-ST	VY020128.D	01 Nov 2024 18:41	vial-A	SY/MD	Ok
22	P4663-03	RES-BUILDING-PAD-N	VY020129.D	01 Nov 2024 19:04	vial-A	SY/MD	Ok
23	P4663-05	RES-BUILDING-PAD-N	VY020130.D	01 Nov 2024 19:27	vial-A	SY/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VY020131.D	01 Nov 2024 19:50		SY/MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	P4663	OrderDate:	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	Project:	Rt. 10 Whippany
Contact:	Gregory Butler	Location:	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-01	TENNANT-PAD-2-3-ST OCKPILE	SOIL	VOCMS Group1	8260D	10/31/24		11/01/24	10/31/24
P4663-03	RES-BUILDING-PAD-N O-11	SOIL	VOCMS Group1	8260D	10/31/24		11/01/24	10/31/24
P4663-05	RES-BUILDING-PAD-N O-3	SOIL	VOCMS Group1	8260D	10/31/24		11/01/24	10/31/24
P4663-07	RES-BUILDING-PAD-N O-2	SOIL	VOCMS Group1	8260D	10/31/24		11/01/24	10/31/24