

Cover Page

Order ID : Q2458

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number

Q2458-01
Q2458-02
Q2458-03
Q2458-04
Q2458-05
Q2458-06
Q2458-07
Q2458-08
Q2458-09
Q2458-10

Client Sample Number

TP-76
TP-55
TP-68
TP-67
TP-66
TP-60
TP-62
TP-63
TP-59
FB-06272025

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 7/7/2025

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2458

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 07/07/2025

LAB CHRONICLE

OrderID:	Q2458	OrderDate:	6/27/2025 4:22:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	TP-76	SOIL	VOC-TCLVOA-10	8260D	06/26/25		06/30/25	06/27/25
Q2458-02	TP-55	SOIL	VOC-TCLVOA-10	8260D	06/26/25		06/30/25	06/27/25
Q2458-03	TP-68	SOIL	VOC-TCLVOA-10	8260D	06/27/25		07/01/25	06/27/25
Q2458-04	TP-67	SOIL	VOC-TCLVOA-10	8260D	06/27/25		07/02/25	06/27/25
Q2458-05	TP-66	SOIL	VOC-TCLVOA-10	8260D	06/27/25		07/01/25	06/27/25
Q2458-06	TP-60	SOIL	VOC-TCLVOA-10	8260D	06/27/25		07/02/25	06/27/25
Q2458-07	TP-62	SOIL	VOC-TCLVOA-10	8260D	06/27/25		07/02/25	06/27/25
Q2458-08	TP-63	SOIL	VOC-TCLVOA-10	8260D	06/27/25		07/02/25	06/27/25
Q2458-09	TP-59	SOIL	VOC-TCLVOA-10	8260D	06/27/25		07/03/25	06/27/25
Q2458-10	FB-06272025	Water	VOC-TCLVOA-10	8260-Low	06/27/25		07/03/25	06/27/25

Hit Summary Sheet
SW-846

SDG No.: Q2458
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TP-76							
Q2458-01	TP-76	SOIL	Methylene Chloride	14.4		4.30	12.3	ug/Kg
			Total Voc :	14.4				
			Total Concentration:	14.4				
Client ID:	TP-55							
Q2458-02	TP-55	SOIL	Methylene Chloride	12.9	J	5.50	15.7	ug/Kg
			Total Voc :	12.9				
			Total Concentration:	12.9				
Client ID:	TP-66							
Q2458-05	TP-66	SOIL	Methylcyclohexane	2.30	J	0.81	4.40	ug/Kg
			Total Voc :	2.30				
Q2458-05	TP-66	SOIL	unknown14.182	* 8.40	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Naphthalene, decahydro-, trans	* 12.3	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Hexane, 2,3-dimethyl-	* 12.1	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Hexane, 3-ethyl-	* 21.3	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Cyclopentanamine	* 19.2	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzene, 2-ethenyl-1,4-dimethyl-	* 12.6	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Octane, 2,6-dimethyl-	* 9.20	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Heptane, 2,5-dimethyl-	* 11.0	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	1H-Indene, 2,3-dihydro-1,1-dimethyl-	* 9.70	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	6,7-Dimethyl-3,5,8,8a-tetrahydronaphthalene	* 14.0	J	0	0	ug/Kg
			Total Tics :	130				
			Total Concentration:	132				
Client ID:	TP-60							
Q2458-06	TP-60	SOIL	Acetone	7.40	J	3.70	19.5	ug/Kg
Q2458-06	TP-60	SOIL	Methylene Chloride	5.50	J	2.80	7.80	ug/Kg
			Total Voc :	12.9				
			Total Concentration:	12.9				
Client ID:	TP-59							
Q2458-09	TP-59	SOIL	Acetone	73.3		4.30	22.6	ug/Kg
Q2458-09	TP-59	SOIL	Carbon Disulfide	1.90	J	0.96	4.50	ug/Kg
Q2458-09	TP-59	SOIL	2-Butanone	14.1	J	5.90	22.6	ug/Kg
Q2458-09	TP-59	SOIL	Benzene	11.7		0.71	4.50	ug/Kg
			Total Voc :	101				
Q2458-09	TP-59	SOIL	Butane	* 7.60	J	0	0	ug/Kg
			Total Tics :	7.60				
			Total Concentration:	109				



QC SUMMARY

Surrogate Summary

SDG No.: **Q2458**

Client: **CDM Smith**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2458-01	TP-76	1,2-Dichloroethane-d4	50	51.4	103		63	155
		Dibromofluoromethane	50	50.6	101		70	134
		Toluene-d8	50	51.4	103		74	123
		4-Bromofluorobenzene	50	59.2	118		17	146
Q2458-02	TP-55	1,2-Dichloroethane-d4	50	51.8	104		63	155
		Dibromofluoromethane	50	51.4	103		70	134
		Toluene-d8	50	50.6	101		74	123
		4-Bromofluorobenzene	50	56.5	113		17	146
Q2458-03	TP-68	1,2-Dichloroethane-d4	50	51.1	102		63	155
		Dibromofluoromethane	50	52.2	104		70	134
		Toluene-d8	50	51.1	102		74	123
		4-Bromofluorobenzene	50	57.0	114		17	146
Q2458-04	TP-67	1,2-Dichloroethane-d4	50	50.1	100		63	155
		Dibromofluoromethane	50	51.2	102		70	134
		Toluene-d8	50	49.9	100		74	123
		4-Bromofluorobenzene	50	54.1	108		17	146
Q2458-05	TP-66	1,2-Dichloroethane-d4	50	71.3	143		63	155
		Dibromofluoromethane	50	57.5	115		70	134
		Toluene-d8	50	51.6	103		74	123
		4-Bromofluorobenzene	50	55.2	110		17	146
Q2458-06	TP-60	1,2-Dichloroethane-d4	50	56.8	114		63	155
		Dibromofluoromethane	50	53.5	107		70	134
		Toluene-d8	50	51.4	103		74	123
		4-Bromofluorobenzene	50	56.4	113		17	146
Q2458-07	TP-62	1,2-Dichloroethane-d4	50	58.3	116		63	155
		Dibromofluoromethane	50	52.8	106		70	134
		Toluene-d8	50	50.7	101		74	123
		4-Bromofluorobenzene	50	58.2	116		17	146
Q2458-08	TP-63	1,2-Dichloroethane-d4	50	53.7	107		63	155
		Dibromofluoromethane	50	51.0	102		70	134
		Toluene-d8	50	50.0	100		74	123
		4-Bromofluorobenzene	50	51.1	102		17	146
Q2458-09	TP-59	1,2-Dichloroethane-d4	50	53.7	107		63	155
		Dibromofluoromethane	50	51.9	104		70	134
		Toluene-d8	50	51.6	103		74	123
		4-Bromofluorobenzene	50	55.8	112		17	146
VY0630SBL01	VY0630SBL01	1,2-Dichloroethane-d4	50	44.2	88		63	155
		Dibromofluoromethane	50	50.1	100		70	134
		Toluene-d8	50	49.3	99		74	123
		4-Bromofluorobenzene	50	54.2	108		17	146
VY0630SBS01	VY0630SBS01	1,2-Dichloroethane-d4	50	46.6	93		63	155
		Dibromofluoromethane	50	48.0	96		70	134
		Toluene-d8	50	48.5	97		74	123
		4-Bromofluorobenzene	50	47.0	94		17	146
VY0630SBSD01	VY0630SBSD01	1,2-Dichloroethane-d4	50	48.7	97		63	155
		Dibromofluoromethane	50	49.9	100		70	134
		Toluene-d8	50	49.9	100		74	123
		4-Bromofluorobenzene	50	47.9	96		17	146
VY0701SBL01	VY0701SBL01	1,2-Dichloroethane-d4	50	52.2	104		63	155
		Dibromofluoromethane	50	50.5	101		70	134

Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
VY0701SBL01	VY0701SBL01	Toluene-d8	50	50.4	101		74	123
		4-Bromofluorobenzene	50	55.6	111		17	146
VY0701SBS01	VY0701SBS01	1,2-Dichloroethane-d4	50	49.2	98		63	155
		Dibromofluoromethane	50	48.6	97		70	134
		Toluene-d8	50	49.2	98		74	123
		4-Bromofluorobenzene	50	47.4	95		17	146
VY0702SBL01	VY0702SBL01	1,2-Dichloroethane-d4	50	49.3	99		63	155
		Dibromofluoromethane	50	50.9	102		70	134
		Toluene-d8	50	51.3	103		74	123
		4-Bromofluorobenzene	50	55.3	111		17	146
VY0702SBS01	VY0702SBS01	1,2-Dichloroethane-d4	50	49.8	100		63	155
		Dibromofluoromethane	50	52.0	104		70	134
		Toluene-d8	50	51.9	104		74	123
		4-Bromofluorobenzene	50	48.9	98		17	146
VY0703SBL01	VY0703SBL01	1,2-Dichloroethane-d4	50	52.7	105		63	155
		Dibromofluoromethane	50	52.7	105		70	134
		Toluene-d8	50	52.1	104		74	123
		4-Bromofluorobenzene	50	55.3	111		17	146
VY0703SBS01	VY0703SBS01	1,2-Dichloroethane-d4	50	48.4	97		63	155
		Dibromofluoromethane	50	50.6	101		70	134
		Toluene-d8	50	51.1	102		74	123
		4-Bromofluorobenzene	50	47.0	94		17	146

Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2458-10	FB-06272025	1,2-Dichloroethane-d4	50	50.5	101		74	125
		Dibromofluoromethane	50	47.7	95		75	124
		Toluene-d8	50	49.8	100		86	113
		4-Bromofluorobenzene	50	50.0	100		77	121
VX0703WBL01	VX0703WBL01	1,2-Dichloroethane-d4	50	50.3	101		74	125
		Dibromofluoromethane	50	48.6	97		75	124
		Toluene-d8	50	49.6	99		86	113
		4-Bromofluorobenzene	50	50.6	101		77	121
VX0703WBS01	VX0703WBS01	1,2-Dichloroethane-d4	50	49.9	100		74	125
		Dibromofluoromethane	50	49.1	98		75	124
		Toluene-d8	50	49.6	99		86	113
		4-Bromofluorobenzene	50	50.7	101		77	121
VX0703WBSD0	VX0703WBSD01	1,2-Dichloroethane-d4	50	51.3	103		74	125
		Dibromofluoromethane	50	49.8	100		75	124
		Toluene-d8	50	49.3	99		86	113
		4-Bromofluorobenzene	50	51.1	102		77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2458</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VX046873.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0703WBS01	Dichlorodifluoromethane	20	18.7	ug/L	94			69	116	
	Chloromethane	20	19.0	ug/L	95			65	116	
	Vinyl chloride	20	18.7	ug/L	94			65	117	
	Bromomethane	20	20.5	ug/L	103			58	125	
	Chloroethane	20	18.2	ug/L	91			56	128	
	Trichlorofluoromethane	20	18.8	ug/L	94			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.8	ug/L	94			80	112	
	1,1-Dichloroethene	20	18.2	ug/L	91			74	110	
	Acetone	100	86.7	ug/L	87			60	125	
	Carbon disulfide	20	18.0	ug/L	90			64	112	
	Methyl tert-butyl Ether	20	18.9	ug/L	95			78	114	
	Methyl Acetate	20	19.3	ug/L	97			67	125	
	Methylene Chloride	20	18.5	ug/L	93			72	114	
	trans-1,2-Dichloroethene	20	19.2	ug/L	96			75	108	
	1,1-Dichloroethane	20	19.0	ug/L	95			78	112	
	Cyclohexane	20	19.2	ug/L	96			75	110	
	2-Butanone	100	93.1	ug/L	93			65	122	
	Carbon Tetrachloride	20	18.3	ug/L	92			77	113	
	cis-1,2-Dichloroethene	20	19.0	ug/L	95			77	110	
	Bromochloromethane	20	16.0	ug/L	80			70	124	
	Chloroform	20	19.1	ug/L	96			79	113	
	1,1,1-Trichloroethane	20	18.8	ug/L	94			80	108	
	Methylcyclohexane	20	18.6	ug/L	93			72	115	
	Benzene	20	18.9	ug/L	95			82	109	
	1,2-Dichloroethane	20	18.6	ug/L	93			80	115	
	Trichloroethene	20	18.4	ug/L	92			77	113	
	1,2-Dichloropropane	20	18.6	ug/L	93			83	111	
	Bromodichloromethane	20	18.8	ug/L	94			83	110	
	4-Methyl-2-Pentanone	100	95.2	ug/L	95			74	118	
	Toluene	20	19.1	ug/L	96			82	110	
	t-1,3-Dichloropropene	20	18.4	ug/L	92			79	110	
	cis-1,3-Dichloropropene	20	18.5	ug/L	93			82	110	
	1,1,2-Trichloroethane	20	19.1	ug/L	96			83	112	
	2-Hexanone	100	92.1	ug/L	92			73	117	
	Dibromochloromethane	20	18.6	ug/L	93			82	110	
	1,2-Dibromoethane	20	18.6	ug/L	93			81	110	
	Tetrachloroethene	20	18.5	ug/L	93			67	123	
	Chlorobenzene	20	18.6	ug/L	93			82	109	
	Ethyl Benzene	20	18.9	ug/L	95			83	109	
	m/p-Xylenes	40	38.0	ug/L	95			82	110	
	o-Xylene	20	18.7	ug/L	94			83	109	
	Styrene	20	19.3	ug/L	97			80	111	
	Bromoform	20	18.3	ug/L	92			79	109	
	Isopropylbenzene	20	18.6	ug/L	93			83	112	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/L	91			76	118	
	1,3-Dichlorobenzene	20	18.4	ug/L	92			82	108	
	1,4-Dichlorobenzene	20	18.0	ug/L	90			82	107	
	1,2-Dichlorobenzene	20	18.5	ug/L	93			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2458</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VX046873.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VX0703WBS01	1,2-Dibromo-3-Chloropropane	20	17.6	ug/L	88			68	112	
	1,2,4-Trichlorobenzene	20	17.8	ug/L	89			75	113	
	1,2,3-Trichlorobenzene	20	17.9	ug/L	90			76	114	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2458</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VX046874.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0703WBSD01	Dichlorodifluoromethane	20	19.3	ug/L	97	3		69	116	19
	Chloromethane	20	19.4	ug/L	97	2		65	116	21
	Vinyl chloride	20	19.1	ug/L	96	2		65	117	19
	Bromomethane	20	20.5	ug/L	103	0		58	125	20
	Chloroethane	20	18.8	ug/L	94	3		56	128	20
	Trichlorofluoromethane	20	19.5	ug/L	98	4		73	115	16
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98	4		80	112	15
	1,1-Dichloroethene	20	19.2	ug/L	96	5		74	110	20
	Acetone	100	91.0	ug/L	91	4		60	125	20
	Carbon disulfide	20	18.5	ug/L	93	3		64	112	20
	Methyl tert-butyl Ether	20	20.5	ug/L	103	8		78	114	20
	Methyl Acetate	20	20.5	ug/L	103	6		67	125	20
	Methylene Chloride	20	19.9	ug/L	100	7		72	114	20
	trans-1,2-Dichloroethene	20	19.9	ug/L	100	4		75	108	16
	1,1-Dichloroethane	20	19.6	ug/L	98	3		78	112	20
	Cyclohexane	20	20.1	ug/L	101	5		75	110	20
	2-Butanone	100	98.7	ug/L	99	6		65	122	26
	Carbon Tetrachloride	20	19.5	ug/L	98	6		77	113	15
	cis-1,2-Dichloroethene	20	19.9	ug/L	100	5		77	110	20
	Bromochloromethane	20	17.5	ug/L	88	10		70	124	20
	Chloroform	20	20.1	ug/L	101	5		79	113	20
	1,1,1-Trichloroethane	20	19.4	ug/L	97	3		80	108	20
	Methylcyclohexane	20	19.3	ug/L	97	4		72	115	20
	Benzene	20	19.8	ug/L	99	4		82	109	15
	1,2-Dichloroethane	20	20.3	ug/L	102	9		80	115	20
	Trichloroethene	20	18.9	ug/L	95	3		77	113	15
	1,2-Dichloropropane	20	19.9	ug/L	100	7		83	111	16
	Bromodichloromethane	20	20.0	ug/L	100	6		83	110	16
	4-Methyl-2-Pentanone	100	100	ug/L	100	5		74	118	25
	Toluene	20	20.1	ug/L	101	5		82	110	16
	t-1,3-Dichloropropene	20	19.8	ug/L	99	7		79	110	20
	cis-1,3-Dichloropropene	20	20.3	ug/L	102	9		82	110	16
	1,1,2-Trichloroethane	20	20.7	ug/L	104	8		83	112	20
	2-Hexanone	100	100	ug/L	100	8		73	117	25
	Dibromochloromethane	20	20.0	ug/L	100	7		82	110	20
	1,2-Dibromoethane	20	20.1	ug/L	101	8		81	110	20
	Tetrachloroethene	20	19.3	ug/L	97	4		67	123	15
	Chlorobenzene	20	19.4	ug/L	97	4		82	109	15
	Ethyl Benzene	20	19.7	ug/L	99	4		83	109	16
	m/p-Xylenes	40	39.9	ug/L	100	5		82	110	15
	o-Xylene	20	19.7	ug/L	99	5		83	109	20
	Styrene	20	20.1	ug/L	101	4		80	111	17
	Bromoform	20	19.3	ug/L	97	5		79	109	20
	Isopropylbenzene	20	19.2	ug/L	96	3		83	112	29
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97	6		76	118	20
	1,3-Dichlorobenzene	20	19.4	ug/L	97	5		82	108	20
	1,4-Dichlorobenzene	20	18.8	ug/L	94	4		82	107	15
	1,2-Dichlorobenzene	20	19.5	ug/L	98	5		82	109	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2458</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VX046874.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0703WBSD01	1,2-Dibromo-3-Chloropropane	20	18.9	ug/L	95	8		68	112	20
	1,2,4-Trichlorobenzene	20	18.3	ug/L	92	3		75	113	29
	1,2,3-Trichlorobenzene	20	19.5	ug/L	98	9		76	114	29

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q2458	Analytical Method:	SW8260D
Client:	CDM Smith	Datafile :	VY022874.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0630SBS01	Dichlorodifluoromethane	20	20.1	ug/Kg	101			64	136	
	Chloromethane	20	21.7	ug/Kg	109			52	151	
	Vinyl chloride	20	19.4	ug/Kg	97			56	148	
	Bromomethane	20	20.1	ug/Kg	101			58	141	
	Chloroethane	20	19.2	ug/Kg	96			69	130	
	Trichlorofluoromethane	20	18.7	ug/Kg	94			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	20.6	ug/Kg	103			79	121	
	Acetone	100	130	ug/Kg	130			40	171	
	Carbon disulfide	20	20.3	ug/Kg	102			59	130	
	Methyl tert-butyl Ether	20	18.8	ug/Kg	94			77	129	
	Methyl Acetate	20	18.5	ug/Kg	93			69	149	
	Methylene Chloride	20	21.7	ug/Kg	109			72	131	
	trans-1,2-Dichloroethene	20	20.2	ug/Kg	101			80	123	
	1,1-Dichloroethane	20	20.4	ug/Kg	102			82	123	
	Cyclohexane	20	20.8	ug/Kg	104			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	20.0	ug/Kg	100			76	129	
	cis-1,2-Dichloroethene	20	20.0	ug/Kg	100			82	123	
	Bromochloromethane	20	19.6	ug/Kg	98			80	127	
	Chloroform	20	19.9	ug/Kg	100			82	125	
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101			80	126	
	Methylcyclohexane	20	21.1	ug/Kg	106			77	123	
	Benzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	19.4	ug/Kg	97			81	126	
	Trichloroethene	20	19.6	ug/Kg	98			83	122	
	1,2-Dichloropropane	20	20.3	ug/Kg	102			83	122	
	Bromodichloromethane	20	19.4	ug/Kg	97			82	123	
	4-Methyl-2-Pentanone	100	90.8	ug/Kg	91			70	135	
	Toluene	20	19.7	ug/Kg	99			83	122	
	t-1,3-Dichloropropene	20	18.8	ug/Kg	94			78	124	
	cis-1,3-Dichloropropene	20	19.8	ug/Kg	99			81	122	
	1,1,2-Trichloroethane	20	19.1	ug/Kg	96			82	125	
	2-Hexanone	100	98.0	ug/Kg	98			66	138	
	Dibromochloromethane	20	18.7	ug/Kg	94			79	125	
	1,2-Dibromoethane	20	18.6	ug/Kg	93			80	125	
	Tetrachloroethene	20	18.3	ug/Kg	92			83	125	
	Chlorobenzene	20	19.9	ug/Kg	100			84	122	
	Ethyl Benzene	20	20.1	ug/Kg	101			82	124	
	m/p-Xylenes	40	40.2	ug/Kg	101			83	124	
	o-Xylene	20	19.8	ug/Kg	99			83	123	
	Styrene	20	19.4	ug/Kg	97			82	124	
	Bromoform	20	18.3	ug/Kg	92			75	127	
	Isopropylbenzene	20	21.1	ug/Kg	106			82	124	
	1,1,2,2-Tetrachloroethane	20	20.6	ug/Kg	103			77	127	
	1,3-Dichlorobenzene	20	20.3	ug/Kg	102			83	122	
	1,4-Dichlorobenzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichlorobenzene	20	19.5	ug/Kg	98			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458

Analytical Method: SW8260D

Client: CDM Smith

Datafile : VY022874.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0630SBS01	1,2-Dibromo-3-Chloropropane	20	18.0	ug/Kg	90			66	134	
	1,2,4-Trichlorobenzene	20	19.6	ug/Kg	98			78	127	
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2458</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VY022875.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0630SBSD01	Dichlorodifluoromethane	20	21.1	ug/Kg	106	5		64	136	20
	Chloromethane	20	19.5	ug/Kg	98	11		52	151	20
	Vinyl chloride	20	19.2	ug/Kg	96	1		56	148	20
	Bromomethane	20	19.5	ug/Kg	98	3		58	141	20
	Chloroethane	20	19.5	ug/Kg	98	2		69	130	20
	Trichlorofluoromethane	20	19.7	ug/Kg	99	5		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	21.1	ug/Kg	106	2		81	123	20
	1,1-Dichloroethene	20	21.0	ug/Kg	105	2		79	121	20
	Acetone	100	130	ug/Kg	130	0		40	171	20
	Carbon disulfide	20	20.8	ug/Kg	104	2		59	130	20
	Methyl tert-butyl Ether	20	20.2	ug/Kg	101	7		77	129	20
	Methyl Acetate	20	17.4	ug/Kg	87	7		69	149	20
	Methylene Chloride	20	22.9	ug/Kg	115	5		72	131	20
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102	1		80	123	20
	1,1-Dichloroethane	20	21.0	ug/Kg	105	3		82	123	20
	Cyclohexane	20	21.5	ug/Kg	108	4		76	122	20
	2-Butanone	100	110	ug/Kg	110	0		69	131	20
	Carbon Tetrachloride	20	20.8	ug/Kg	104	4		76	129	20
	cis-1,2-Dichloroethene	20	20.4	ug/Kg	102	2		82	123	20
	Bromochloromethane	20	20.4	ug/Kg	102	4		80	127	20
	Chloroform	20	20.8	ug/Kg	104	4		82	125	20
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106	5		80	126	20
	Methylcyclohexane	20	21.3	ug/Kg	106	0		77	123	20
	Benzene	20	20.8	ug/Kg	104	3		84	121	20
	1,2-Dichloroethane	20	20.6	ug/Kg	103	6		81	126	20
	Trichloroethene	20	20.4	ug/Kg	102	4		83	122	20
	1,2-Dichloropropane	20	20.7	ug/Kg	104	2		83	122	20
	Bromodichloromethane	20	20.6	ug/Kg	103	6		82	123	20
	4-Methyl-2-Pentanone	100	98.1	ug/Kg	98	7		70	135	20
	Toluene	20	20.5	ug/Kg	103	4		83	122	20
	t-1,3-Dichloropropene	20	20.3	ug/Kg	102	8		78	124	20
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	4		81	122	20
	1,1,2-Trichloroethane	20	20.4	ug/Kg	102	6		82	125	20
	2-Hexanone	100	100	ug/Kg	100	2		66	138	20
	Dibromochloromethane	20	19.8	ug/Kg	99	5		79	125	20
	1,2-Dibromoethane	20	19.4	ug/Kg	97	4		80	125	20
	Tetrachloroethene	20	19.1	ug/Kg	96	4		83	125	20
	Chlorobenzene	20	20.5	ug/Kg	103	3		84	122	20
	Ethyl Benzene	20	20.6	ug/Kg	103	2		82	124	20
	m/p-Xylenes	40	40.9	ug/Kg	102	1		83	124	20
	o-Xylene	20	20.3	ug/Kg	102	3		83	123	20
	Styrene	20	19.9	ug/Kg	100	3		82	124	20
	Bromoform	20	19.2	ug/Kg	96	4		75	127	20
	Isopropylbenzene	20	21.4	ug/Kg	107	1		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.9	ug/Kg	110	7		77	127	20
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103	1		83	122	20
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	2		84	121	20
	1,2-Dichlorobenzene	20	20.6	ug/Kg	103	5		83	124	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2458</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VY022875.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0630SBSD01	1,2-Dibromo-3-Chloropropane	20	20.2	ug/Kg	101	12		66	134	20
	1,2,4-Trichlorobenzene	20	20.7	ug/Kg	104	6		78	127	20
	1,2,3-Trichlorobenzene	20	20.3	ug/Kg	102	7		70	137	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2458</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VY022893.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0701SBS01	Dichlorodifluoromethane	20	20.6	ug/Kg	103			64	136	
	Chloromethane	20	20.3	ug/Kg	102			52	151	
	Vinyl chloride	20	19.6	ug/Kg	98			56	148	
	Bromomethane	20	21.8	ug/Kg	109			58	141	
	Chloroethane	20	19.9	ug/Kg	100			69	130	
	Trichlorofluoromethane	20	19.7	ug/Kg	99			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105			81	123	
	1,1-Dichloroethene	20	20.5	ug/Kg	103			79	121	
	Acetone	100	130	ug/Kg	130			40	171	
	Carbon disulfide	20	20.3	ug/Kg	102			59	130	
	Methyl tert-butyl Ether	20	20.6	ug/Kg	103			77	129	
	Methyl Acetate	20	20.4	ug/Kg	102			69	149	
	Methylene Chloride	20	22.2	ug/Kg	111			72	131	
	trans-1,2-Dichloroethene	20	20.2	ug/Kg	101			80	123	
	1,1-Dichloroethane	20	20.6	ug/Kg	103			82	123	
	Cyclohexane	20	21.0	ug/Kg	105			76	122	
	2-Butanone	100	120	ug/Kg	120			69	131	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			76	129	
	cis-1,2-Dichloroethene	20	20.3	ug/Kg	102			82	123	
	Bromochloromethane	20	20.9	ug/Kg	104			80	127	
	Chloroform	20	20.3	ug/Kg	102			82	125	
	1,1,1-Trichloroethane	20	20.6	ug/Kg	103			80	126	
	Methylcyclohexane	20	20.3	ug/Kg	102			77	123	
	Benzene	20	20.3	ug/Kg	102			84	121	
	1,2-Dichloroethane	20	20.6	ug/Kg	103			81	126	
	Trichloroethene	20	20.4	ug/Kg	102			83	122	
	1,2-Dichloropropane	20	20.7	ug/Kg	104			83	122	
	Bromodichloromethane	20	20.2	ug/Kg	101			82	123	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			70	135	
	Toluene	20	20.0	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	20	19.7	ug/Kg	99			78	124	
	cis-1,3-Dichloropropene	20	20.1	ug/Kg	101			81	122	
	1,1,2-Trichloroethane	20	19.7	ug/Kg	99			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	19.9	ug/Kg	100			79	125	
	1,2-Dibromoethane	20	19.6	ug/Kg	98			80	125	
	Tetrachloroethene	20	20.7	ug/Kg	104			83	125	
	Chlorobenzene	20	20.2	ug/Kg	101			84	122	
	Ethyl Benzene	20	20.1	ug/Kg	101			82	124	
	m/p-Xylenes	40	39.9	ug/Kg	100			83	124	
	o-Xylene	20	19.9	ug/Kg	100			83	123	
	Styrene	20	19.7	ug/Kg	99			82	124	
	Bromoform	20	19.2	ug/Kg	96			75	127	
	Isopropylbenzene	20	20.9	ug/Kg	104			82	124	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/Kg	101			77	127	
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100			83	122	
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2458</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VY022893.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0701SBS01	1,2-Dibromo-3-Chloropropane	20	20.7	ug/Kg	104			66	134	
	1,2,4-Trichlorobenzene	20	19.2	ug/Kg	96			78	127	
	1,2,3-Trichlorobenzene	20	18.6	ug/Kg	93			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2458</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VY022905.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0702SBS01	Dichlorodifluoromethane	20	20.3	ug/Kg	102			64	136	
	Chloromethane	20	22.7	ug/Kg	114			52	151	
	Vinyl chloride	20	20.1	ug/Kg	101			56	148	
	Bromomethane	20	21.9	ug/Kg	110			58	141	
	Chloroethane	20	21.3	ug/Kg	106			69	130	
	Trichlorofluoromethane	20	19.4	ug/Kg	97			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.9	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	20.7	ug/Kg	104			79	121	
	Acetone	100	110	ug/Kg	110			40	171	
	Carbon disulfide	20	20.6	ug/Kg	103			59	130	
	Methyl tert-butyl Ether	20	19.0	ug/Kg	95			77	129	
	Methyl Acetate	20	17.0	ug/Kg	85			69	149	
	Methylene Chloride	20	22.0	ug/Kg	110			72	131	
	trans-1,2-Dichloroethene	20	20.5	ug/Kg	103			80	123	
	1,1-Dichloroethane	20	21.0	ug/Kg	105			82	123	
	Cyclohexane	20	21.2	ug/Kg	106			76	122	
	2-Butanone	100	97.2	ug/Kg	97			69	131	
	Carbon Tetrachloride	20	20.5	ug/Kg	103			76	129	
	cis-1,2-Dichloroethene	20	20.2	ug/Kg	101			82	123	
	Bromochloromethane	20	20.2	ug/Kg	101			80	127	
	Chloroform	20	20.7	ug/Kg	104			82	125	
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104			80	126	
	Methylcyclohexane	20	20.6	ug/Kg	103			77	123	
	Benzene	20	20.6	ug/Kg	103			84	121	
	1,2-Dichloroethane	20	20.0	ug/Kg	100			81	126	
	Trichloroethene	20	19.9	ug/Kg	100			83	122	
	1,2-Dichloropropane	20	20.8	ug/Kg	104			83	122	
	Bromodichloromethane	20	19.8	ug/Kg	99			82	123	
	4-Methyl-2-Pentanone	100	89.3	ug/Kg	89			70	135	
	Toluene	20	20.1	ug/Kg	101			83	122	
	t-1,3-Dichloropropene	20	19.3	ug/Kg	97			78	124	
	cis-1,3-Dichloropropene	20	20.2	ug/Kg	101			81	122	
	1,1,2-Trichloroethane	20	19.2	ug/Kg	96			82	125	
	2-Hexanone	100	90.1	ug/Kg	90			66	138	
	Dibromochloromethane	20	18.8	ug/Kg	94			79	125	
	1,2-Dibromoethane	20	18.3	ug/Kg	92			80	125	
	Tetrachloroethene	20	19.7	ug/Kg	99			83	125	
	Chlorobenzene	20	20.4	ug/Kg	102			84	122	
	Ethyl Benzene	20	20.6	ug/Kg	103			82	124	
	m/p-Xylenes	40	40.6	ug/Kg	102			83	124	
	o-Xylene	20	20.0	ug/Kg	100			83	123	
	Styrene	20	19.7	ug/Kg	99			82	124	
	Bromoform	20	18.4	ug/Kg	92			75	127	
	Isopropylbenzene	20	21.8	ug/Kg	109			82	124	
	1,1,2,2-Tetrachloroethane	20	20.8	ug/Kg	104			77	127	
	1,3-Dichlorobenzene	20	20.4	ug/Kg	102			83	122	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			84	121	
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458

Analytical Method: SW8260D

Client: CDM Smith

Datafile : VY022905.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0702SBS01	1,2-Dibromo-3-Chloropropane	20	18.3	ug/Kg	92			66	134	
	1,2,4-Trichlorobenzene	20	18.4	ug/Kg	92			78	127	
	1,2,3-Trichlorobenzene	20	17.9	ug/Kg	90			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q2458	Analytical Method:	SW8260D
Client:	CDM Smith	Datafile :	VY022931.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0703SBS01	Dichlorodifluoromethane	20	21.3	ug/Kg	106			64	136	
	Chloromethane	20	20.1	ug/Kg	101			52	151	
	Vinyl chloride	20	20.1	ug/Kg	101			56	148	
	Bromomethane	20	19.6	ug/Kg	98			58	141	
	Chloroethane	20	20.3	ug/Kg	102			69	130	
	Trichlorofluoromethane	20	19.3	ug/Kg	97			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/Kg	109			81	123	
	1,1-Dichloroethene	20	21.2	ug/Kg	106			79	121	
	Acetone	100	140	ug/Kg	140			40	171	
	Carbon disulfide	20	21.1	ug/Kg	106			59	130	
	Methyl tert-butyl Ether	20	18.3	ug/Kg	92			77	129	
	Methyl Acetate	20	16.2	ug/Kg	81			69	149	
	Methylene Chloride	20	24.0	ug/Kg	120			72	131	
	trans-1,2-Dichloroethene	20	20.9	ug/Kg	104			80	123	
	1,1-Dichloroethane	20	21.6	ug/Kg	108			82	123	
	Cyclohexane	20	21.2	ug/Kg	106			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	21.1	ug/Kg	106			76	129	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			82	123	
	Bromochloromethane	20	20.3	ug/Kg	102			80	127	
	Chloroform	20	21.0	ug/Kg	105			82	125	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			80	126	
	Methylcyclohexane	20	20.6	ug/Kg	103			77	123	
	Benzene	20	21.4	ug/Kg	107			84	121	
	1,2-Dichloroethane	20	20.6	ug/Kg	103			81	126	
	Trichloroethene	20	21.2	ug/Kg	106			83	122	
	1,2-Dichloropropane	20	21.4	ug/Kg	107			83	122	
	Bromodichloromethane	20	20.4	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	88.7	ug/Kg	89			70	135	
	Toluene	20	20.6	ug/Kg	103			83	122	
	t-1,3-Dichloropropene	20	19.2	ug/Kg	96			78	124	
	cis-1,3-Dichloropropene	20	20.4	ug/Kg	102			81	122	
	1,1,2-Trichloroethane	20	19.4	ug/Kg	97			82	125	
	2-Hexanone	100	97.3	ug/Kg	97			66	138	
	Dibromochloromethane	20	19.1	ug/Kg	96			79	125	
	1,2-Dibromoethane	20	18.2	ug/Kg	91			80	125	
	Tetrachloroethene	20	22.3	ug/Kg	112			83	125	
	Chlorobenzene	20	20.9	ug/Kg	104			84	122	
	Ethyl Benzene	20	21.4	ug/Kg	107			82	124	
	m/p-Xylenes	40	42.4	ug/Kg	106			83	124	
	o-Xylene	20	20.1	ug/Kg	101			83	123	
	Styrene	20	20.2	ug/Kg	101			82	124	
	Bromoform	20	17.7	ug/Kg	89			75	127	
	Isopropylbenzene	20	21.8	ug/Kg	109			82	124	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/Kg	95			77	127	
	1,3-Dichlorobenzene	20	20.7	ug/Kg	104			83	122	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			84	121	
	1,2-Dichlorobenzene	20	19.6	ug/Kg	98			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458

Analytical Method: SW8260D

Client: CDM Smith

Datafile : VY022931.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0703SBS01	1,2-Dibromo-3-Chloropropane	20	17.8	ug/Kg	89			66	134	
	1,2,4-Trichlorobenzene	20	17.7	ug/Kg	89			78	127	
	1,2,3-Trichlorobenzene	20	16.9	ug/Kg	85			70	137	

VOLATILE METHOD BLANK SUMMARY

Client ID

VX0703WBL01

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VX046871.D

Lab Sample ID: VX0703WBL01

Date Analyzed: 07/03/2025

Time Analyzed: 09:09

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
FB-06272025	Q2458-10	VX046872.D	07/03/2025
VX0703WBS01	VX0703WBS01	VX046873.D	07/03/2025
VX0703WBSD01	VX0703WBSD01	VX046874.D	07/03/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VY0630SBL01

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VY022873.D

Lab Sample ID: VY0630SBL01

Date Analyzed: 06/30/2025

Time Analyzed: 11:39

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
VY0630SBS01	VY0630SBS01	VY022874.D	06/30/2025
VY0630SBSD01	VY0630SBSD01	VY022875.D	06/30/2025
TP-76	Q2458-01	VY022887.D	06/30/2025
TP-55	Q2458-02	VY022888.D	06/30/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VY0701SBL01

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VY022892.D

Lab Sample ID: VY0701SBL01

Date Analyzed: 07/01/2025

Time Analyzed: 11:05

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
VY0701SBS01	VY0701SBS01	VY022893.D	07/01/2025
TP-68	Q2458-03	VY022897.D	07/01/2025
TP-66	Q2458-05	VY022899.D	07/01/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VY0702SBL01

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VY022904.D

Lab Sample ID: VY0702SBL01

Date Analyzed: 07/02/2025

Time Analyzed: 11:42

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
VY0702SBS01	VY0702SBS01	VY022905.D	07/02/2025
TP-67	Q2458-04	VY022912.D	07/02/2025
TP-60	Q2458-06	VY022913.D	07/02/2025
TP-62	Q2458-07	VY022914.D	07/02/2025
TP-63	Q2458-08	VY022915.D	07/02/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VY0703SBL01

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VY022930.D

Lab Sample ID: VY0703SBL01

Date Analyzed: 07/03/2025

Time Analyzed: 09:57

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
VY0703SBS01	VY0703SBS01	VY022931.D	07/03/2025
TP-59	Q2458-09	VY022937.D	07/03/2025

COMMENTS: _____



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VX046859.D

BFB Injection Date: 07/02/2025

Instrument ID: MSVOA_X

BFB Injection Time: 11:12

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	75.5
175	5.0 - 9.0% of mass 174	5.6 (7.4) 1
176	95.0 - 101.0% of mass 174	73.3 (97.1) 1
177	5.0 - 9.0% of mass 176	4.9 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX046860.D	07/02/2025	12:11
VSTDIC005	VSTDIC005	VX046861.D	07/02/2025	12:37
VSTDIC020	VSTDIC020	VX046862.D	07/02/2025	13:18
VSTDIC050	VSTDIC050	VX046863.D	07/02/2025	13:39
VSTDIC100	VSTDIC100	VX046864.D	07/02/2025	14:10
VSTDIC150	VSTDIC150	VX046865.D	07/02/2025	14:31



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VX046868.D

BFB Injection Date: 07/03/2025

Instrument ID: MSVOA_X

BFB Injection Time: 07:52

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	49.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	5.7 (7.6) 1
176	95.0 - 101.0% of mass 174	75.5 (99.4) 1
177	5.0 - 9.0% of mass 176	4.9 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046869.D	07/03/2025	08:19
VX0703WBL01	VX0703WBL01	VX046871.D	07/03/2025	09:09
FB-06272025	Q2458-10	VX046872.D	07/03/2025	09:35
VX0703WBS01	VX0703WBS01	VX046873.D	07/03/2025	09:56
VX0703WBSD01	VX0703WBSD01	VX046874.D	07/03/2025	10:23



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VY022775.D

BFB Injection Date: 06/23/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 10:17

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	81.9
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	78.2 (95.5) 1
177	5.0 - 9.0% of mass 176	5.1 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY022776.D	06/23/2025	13:38
VSTDIC010	VSTDIC010	VY022777.D	06/23/2025	14:00
VSTDIC020	VSTDIC020	VY022778.D	06/23/2025	14:23
VSTDIC050	VSTDIC050	VY022779.D	06/23/2025	14:46
VSTDIC100	VSTDIC100	VY022780.D	06/23/2025	15:08
VSTDIC150	VSTDIC150	VY022781.D	06/23/2025	15:31



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VY022871.D

BFB Injection Date: 06/30/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 08:42

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1) 1
174	50.0 - 100.0% of mass 95	84.6
175	5.0 - 9.0% of mass 174	6.3 (7.4) 1
176	95.0 - 101.0% of mass 174	80.8 (95.5) 1
177	5.0 - 9.0% of mass 176	5.3 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022872.D	06/30/2025	11:03
VY0630SBL01	VY0630SBL01	VY022873.D	06/30/2025	11:39
VY0630SBS01	VY0630SBS01	VY022874.D	06/30/2025	12:09
VY0630SBSD01	VY0630SBSD01	VY022875.D	06/30/2025	12:32
TP-76	Q2458-01	VY022887.D	06/30/2025	17:59
TP-55	Q2458-02	VY022888.D	06/30/2025	18:22



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VY022890.D

BFB Injection Date: 07/01/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 08:47

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	54.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.1 (1.3) 1
174	50.0 - 100.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.4 (7.7) 1
176	95.0 - 101.0% of mass 174	80.2 (96.3) 1
177	5.0 - 9.0% of mass 176	5.5 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022891.D	07/01/2025	10:32
VY0701SBL01	VY0701SBL01	VY022892.D	07/01/2025	11:05
VY0701SBS01	VY0701SBS01	VY022893.D	07/01/2025	11:34
TP-68	Q2458-03	VY022897.D	07/01/2025	13:20
TP-66	Q2458-05	VY022899.D	07/01/2025	15:06



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VY022902.D

BFB Injection Date: 07/02/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 08:51

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.5
75	30.0 - 60.0% of mass 95	55.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1 (1.2) 1
174	50.0 - 100.0% of mass 95	83.6
175	5.0 - 9.0% of mass 174	6.1 (7.3) 1
176	95.0 - 101.0% of mass 174	81.3 (97.3) 1
177	5.0 - 9.0% of mass 176	5.4 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022903.D	07/02/2025	10:37
VY0702SBL01	VY0702SBL01	VY022904.D	07/02/2025	11:42
VY0702SBS01	VY0702SBS01	VY022905.D	07/02/2025	12:12
TP-67	Q2458-04	VY022912.D	07/02/2025	15:09
TP-60	Q2458-06	VY022913.D	07/02/2025	15:33
TP-62	Q2458-07	VY022914.D	07/02/2025	15:56
TP-63	Q2458-08	VY022915.D	07/02/2025	16:20



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: VY022928.D

BFB Injection Date: 07/03/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 08:03

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23
75	30.0 - 60.0% of mass 95	56.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.1 (1.3) 1
174	50.0 - 100.0% of mass 95	85.2
175	5.0 - 9.0% of mass 174	6.3 (7.3) 1
176	95.0 - 101.0% of mass 174	81 (95.1) 1
177	5.0 - 9.0% of mass 176	5.3 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022929.D	07/03/2025	09:26
VY0703SBL01	VY0703SBL01	VY022930.D	07/03/2025	09:57
VY0703SBS01	VY0703SBS01	VY022931.D	07/03/2025	10:29
TP-59	Q2458-09	VY022937.D	07/03/2025	13:03

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2458
 Lab File ID: VX046869.D Date Analyzed: 07/03/2025
 Instrument ID: MSVOA_X Time Analyzed: 08:19
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	416385	5.56	663948	6.76	582621	10.05
UPPER LIMIT	832770	6.056	1327900	7.263	1165240	10.549
LOWER LIMIT	208193	5.056	331974	6.263	291311	9.549
EPA SAMPLE NO.						
FB-06272025	397171	5.56	689071	6.76	628783	10.05
VX0703WBL01	435949	5.56	752530	6.76	691838	10.05
VX0703WBS01	380935	5.56	631809	6.77	572542	10.06
VX0703WBSD01	339915	5.56	568093	6.76	517645	10.05

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: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2458
 Lab File ID: VX046869.D Date Analyzed: 07/03/2025
 Instrument ID: MSVOA_X Time Analyzed: 08:19
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	287854	12.018				
UPPER LIMIT	575708	12.518				
LOWER LIMIT	143927	11.518				
EPA SAMPLE NO.						
FB-06272025	317895	12.02				
VX0703WBL01	351915	12.02				
VX0703WBS01	293826	12.02				
VX0703WBSD01	269874	12.02				

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2458
 Lab File ID: VY022872.D Date Analyzed: 06/30/2025
 Instrument ID: MSVOA_Y Time Analyzed: 11:03
 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	450935	7.71	753538	8.62	651538	11.41
UPPER LIMIT	901870	8.207	1507080	9.115	1303080	11.914
LOWER LIMIT	225468	7.207	376769	8.115	325769	10.914
EPA SAMPLE NO.						
TP-76	303882	7.71	573423	8.62	579838	11.41
TP-55	302919	7.71	573452	8.62	562005	11.41
VY0630SBL01	371114	7.71	672085	8.62	635637	11.41
VY0630SBS01	473861	7.71	796065	8.62	673720	11.41
VY0630SBSD01	457956	7.71	769619	8.62	654092	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: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2458
 Lab File ID: VY022872.D Date Analyzed: 06/30/2025
 Instrument ID: MSVOA_Y Time Analyzed: 11:03
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	313014	13.346				
UPPER LIMIT	626028	13.846				
LOWER LIMIT	156507	12.846				
EPA SAMPLE NO.						
TP-76	256613	13.34				
TP-55	240190	13.35				
VY0630SBL01	274914	13.35				
VY0630SBS01	318118	13.34				
VY0630SBSD01	308766	13.34				

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
Lab Code: ACE SDG NO.: Q2458
Lab File ID: VY022891.D Date Analyzed: 07/01/2025
Instrument ID: MSVOA_Y Time Analyzed: 10:32
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	433923	7.71	723740	8.62	623953	11.41
UPPER LIMIT	867846	8.213	1447480	9.115	1247910	11.914
LOWER LIMIT	216962	7.213	361870	8.115	311977	10.914
EPA SAMPLE NO.						
TP-68	309337	7.71	580195	8.61	586876	11.41
TP-66	227063	7.71	478916	8.62	482244	11.41
VY0701SBL01	323968	7.71	617486	8.62	600262	11.41
VY0701SBS01	427188	7.71	723243	8.62	617191	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: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2458
 Lab File ID: VY022891.D Date Analyzed: 07/01/2025
 Instrument ID: MSVOA_Y Time Analyzed: 10:32
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	315665	13.346				
UPPER LIMIT	631330	13.846				
LOWER LIMIT	157833	12.846				
EPA SAMPLE NO.						
TP-68	251388	13.35				
TP-66	188370	13.35				
VY0701SBL01	258497	13.35				
VY0701SBS01	293207	13.34				

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
Lab Code: ACE SDG NO.: Q2458
Lab File ID: VY022903.D Date Analyzed: 07/02/2025
Instrument ID: MSVOA_Y Time Analyzed: 10:37
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	453239	7.71	750175	8.62	644334	11.41
UPPER LIMIT	906478	8.213	1500350	9.116	1288670	11.914
LOWER LIMIT	226620	7.213	375088	8.116	322167	10.914
EPA SAMPLE NO.						
TP-67	314085	7.71	602578	8.62	586720	11.41
TP-60	284075	7.71	537745	8.62	538792	11.41
TP-62	277237	7.71	536046	8.62	553104	11.41
TP-63	278456	7.71	537398	8.62	515031	11.41
VY0702SBL01	327303	7.71	608180	8.62	599654	11.42
VY0702SBS01	424569	7.71	714057	8.62	598160	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: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2458
 Lab File ID: VY022903.D Date Analyzed: 07/02/2025
 Instrument ID: MSVOA_Y Time Analyzed: 10:37
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	321198	13.347				
UPPER LIMIT	642396	13.847				
LOWER LIMIT	160599	12.847				
EPA SAMPLE NO.						
TP-67	246551	13.35				
TP-60	220375	13.35				
TP-62	246603	13.35				
TP-63	195752	13.35				
VY0702SBL01	251367	13.35				
VY0702SBS01	274634	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2458
 Lab File ID: VY022929.D Date Analyzed: 07/03/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:26
 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	402903	7.71	653588	8.62	556811	11.41
UPPER LIMIT	805806	8.207	1307180	9.116	1113620	11.914
LOWER LIMIT	201452	7.207	326794	8.116	278406	10.914
EPA SAMPLE NO.						
TP-59	268585	7.71	499539	8.62	495456	11.41
VY0703SBL01	297416	7.71	558302	8.62	553906	11.41
VY0703SBS01	387913	7.71	648160	8.62	537972	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: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2458
 Lab File ID: VY022929.D Date Analyzed: 07/03/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:26
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	273118	13.347				
UPPER LIMIT	546236	13.847				
LOWER LIMIT	136559	12.847				
EPA SAMPLE NO.						
TP-59	213523	13.35				
VY0703SBL01	230762	13.35				
VY0703SBS01	252496	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.



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	4.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022887.D	1	06/30/25 17:59	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	6.10	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	6.10	ug/Kg
75-01-4	Vinyl Chloride	0.97	U	0.97	6.10	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.10	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	6.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	6.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	6.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	6.10	ug/Kg
67-64-1	Acetone	5.80	U	5.80	30.7	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	6.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.90	U	0.90	6.10	ug/Kg
79-20-9	Methyl Acetate	1.90	U	1.90	6.10	ug/Kg
75-09-2	Methylene Chloride	14.4		4.30	12.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.98	U	0.98	6.10	ug/Kg
110-82-7	Cyclohexane	0.97	U	0.97	6.10	ug/Kg
78-93-3	2-Butanone	8.00	U	8.00	30.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	6.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.92	U	0.92	6.10	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	6.10	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	6.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	6.10	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.10	ug/Kg
71-43-2	Benzene	0.97	U	0.97	6.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.97	U	0.97	6.10	ug/Kg
79-01-6	Trichloroethene	0.99	U	0.99	6.10	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	6.10	ug/Kg
75-27-4	Bromodichloromethane	0.96	U	0.96	6.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	30.7	ug/Kg
108-88-3	Toluene	0.96	U	0.96	6.10	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	4.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022887.D	1	06/30/25 17:59	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.80	U	0.80	6.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.76	U	0.76	6.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.10	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	30.7	ug/Kg
124-48-1	Dibromochloromethane	1.10	U	1.10	6.10	ug/Kg
106-93-4	1,2-Dibromoethane	1.10	U	1.10	6.10	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	6.10	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	6.10	ug/Kg
100-41-4	Ethyl Benzene	0.82	U	0.82	6.10	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	12.3	ug/Kg
95-47-6	o-Xylene	1.00	U	1.00	6.10	ug/Kg
100-42-5	Styrene	0.87	U	0.87	6.10	ug/Kg
75-25-2	Bromoform	1.10	U	1.10	6.10	ug/Kg
98-82-8	Isopropylbenzene	0.96	U	0.96	6.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	1.50	6.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	2.10	6.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	6.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.80	6.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.30	U	2.30	6.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.60	U	3.60	6.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.90	U	3.90	6.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.4		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	51.4		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	59.2		17 - 146	118%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	304000	7.707			
540-36-3	1,4-Difluorobenzene	573000	8.615			
3114-55-4	Chlorobenzene-d5	580000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	257000	13.34			

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	4.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022887.D	1	06/30/25 17:59	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022887.D
 Acq On : 30 Jun 2025 17:59
 Operator : SY/MD
 Sample : Q2458-01
 Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-76

Quant Time: Jul 01 03:42:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

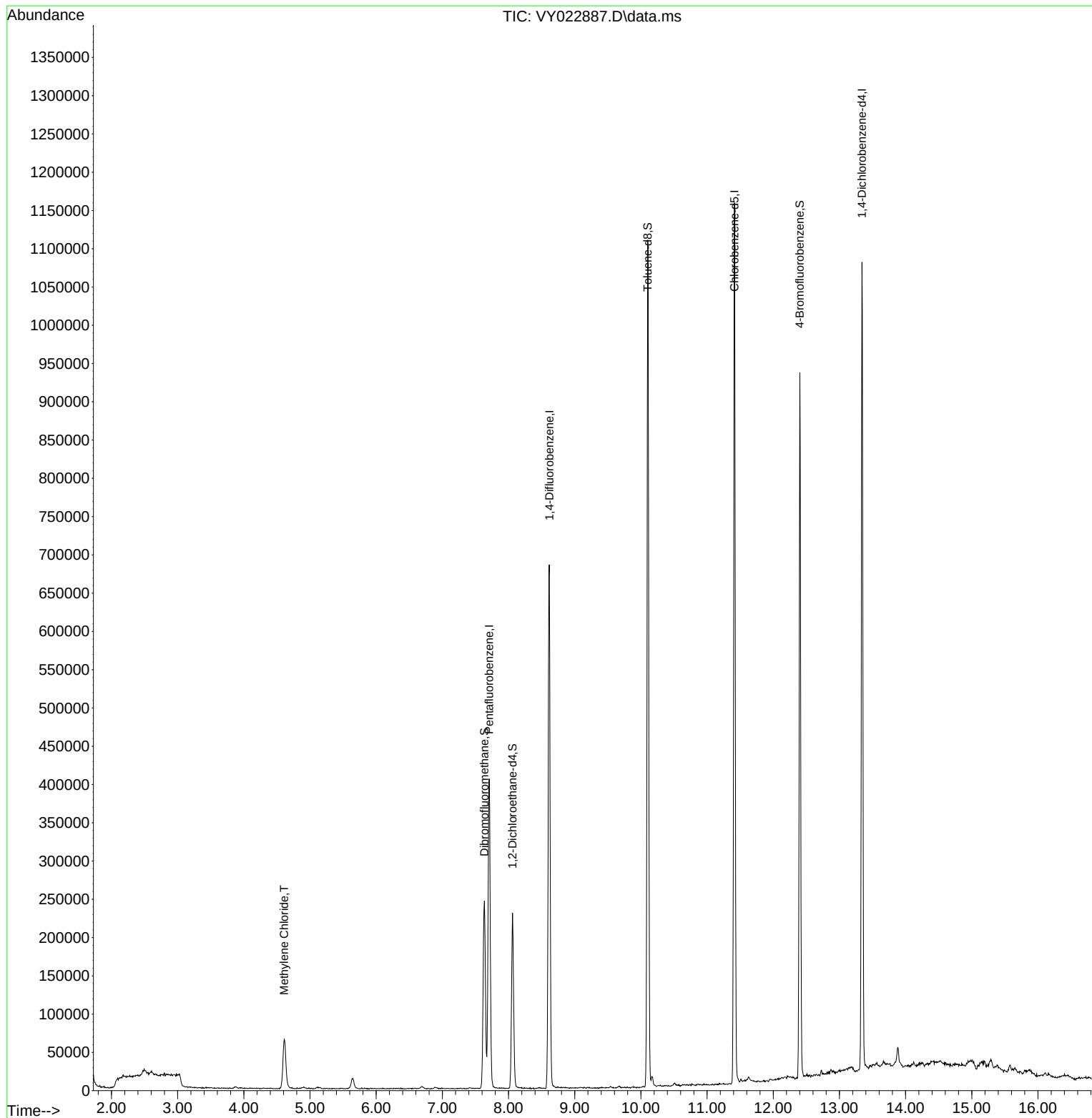
Internal Standards						
1) Pentafluorobenzene	7.707	168	303882	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	573423	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	579838	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	256613	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	174178	51.355	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.720%	
35) Dibromofluoromethane	7.634	113	176566	50.631	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.260%	
50) Toluene-d8	10.103	98	711217	51.396	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.800%	
62) 4-Bromofluorobenzene	12.401	95	263188	59.164	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 118.320%	
Target Compounds						Qvalue
20) Methylene Chloride	4.610	84	47491	11.731	ug/l	97

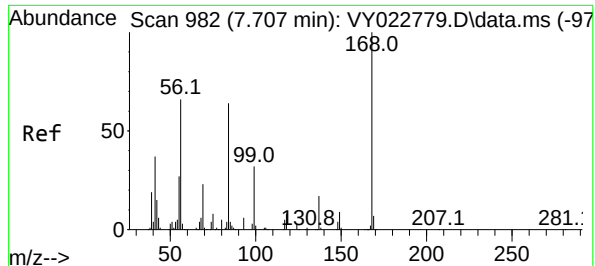
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022887.D
Acq On : 30 Jun 2025 17:59
Operator : SY/MD
Sample : Q2458-01
Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-76

Quant Time: Jul 01 03:42:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

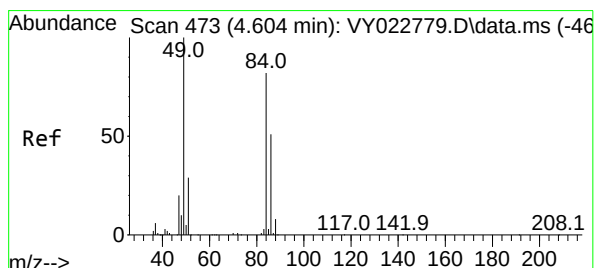
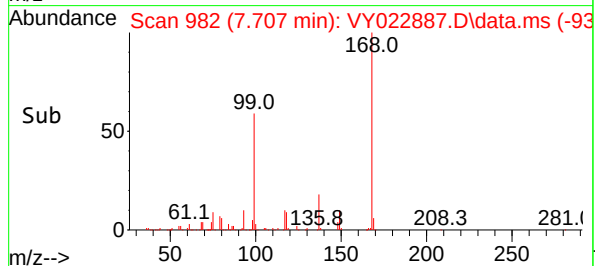
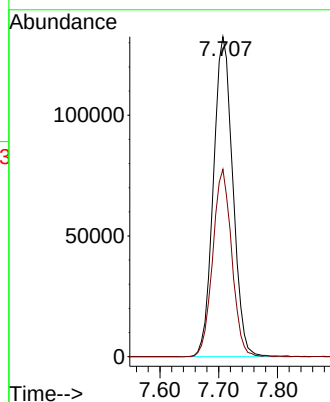
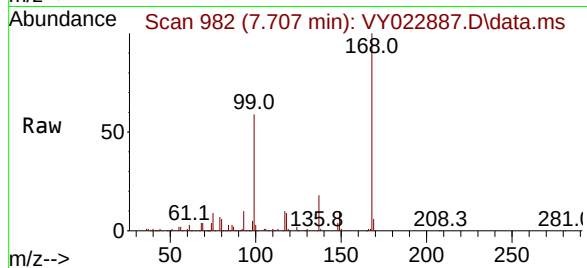




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.006 min
Lab File: VY022887.D
Acq: 30 Jun 2025 17:59

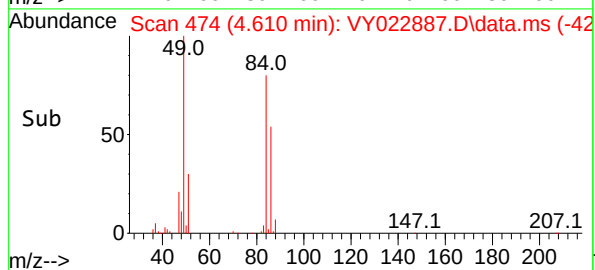
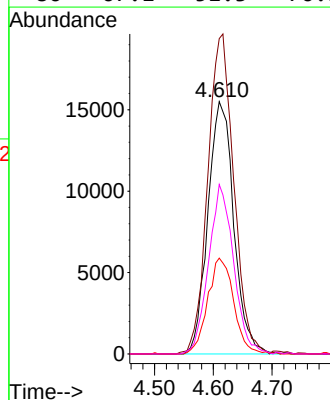
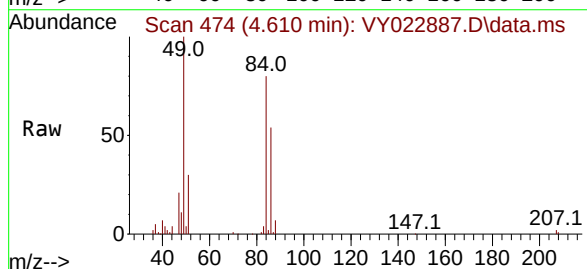
Instrument :
MSVOA_Y
ClientSampleId :
TP-76

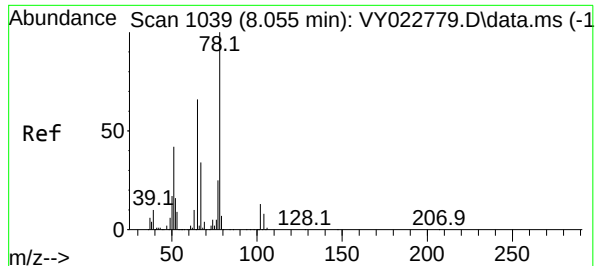
Tgt Ion:168 Resp: 303882
Ion Ratio Lower Upper
168 100
99 58.6 44.3 66.5



#20
Methylene Chloride
Concen: 11.731 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY022887.D
Acq: 30 Jun 2025 17:59

Tgt Ion: 84 Resp: 47491
Ion Ratio Lower Upper
84 100
49 124.3 101.9 152.9
51 38.0 29.8 44.8
86 67.1 51.3 76.9





#33

1,2-Dichloroethane-d4

Concen: 51.355 ug/l

RT: 8.061 min Scan# 1103

Delta R.T. -0.006 min

Lab File: VY022887.D

Acq: 30 Jun 2025 17:59

Instrument :

MSVOA_Y

ClientSampleId :

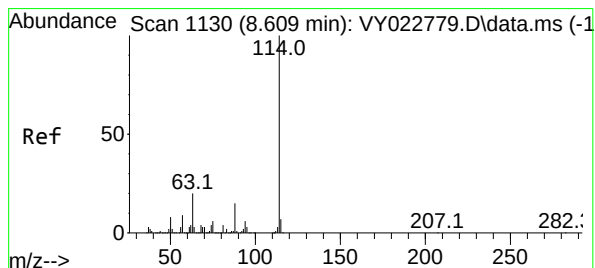
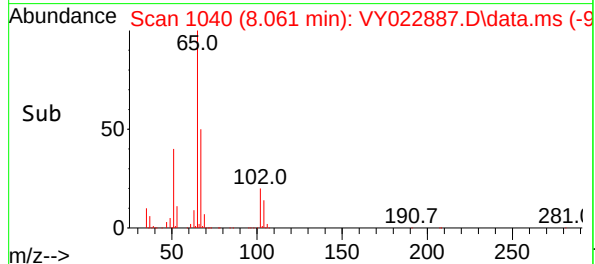
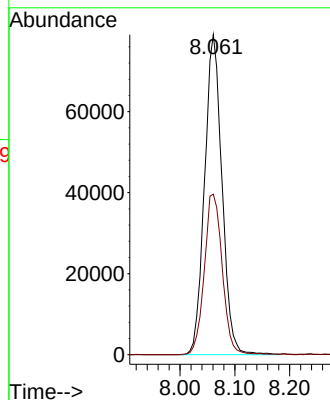
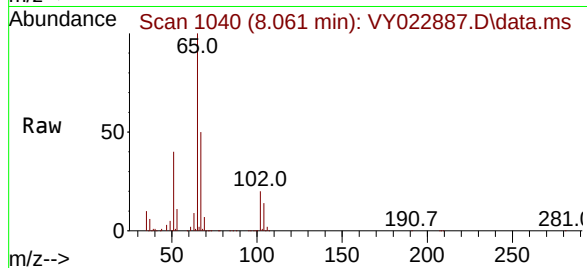
TP-76

Tgt Ion: 65 Resp: 174178

Ion Ratio Lower Upper

65 100

67 51.8 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022887.D

Acq: 30 Jun 2025 17:59

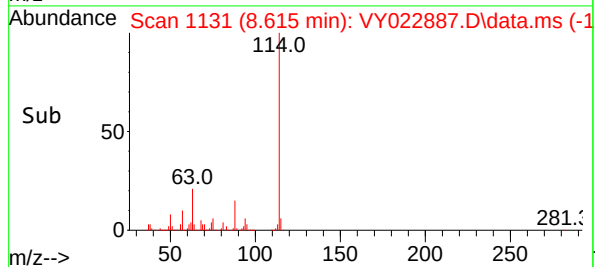
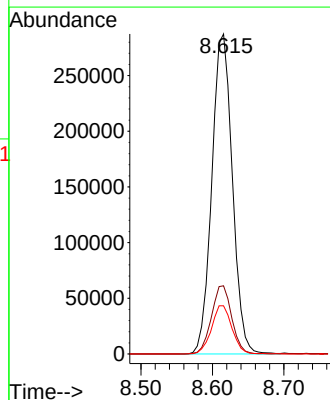
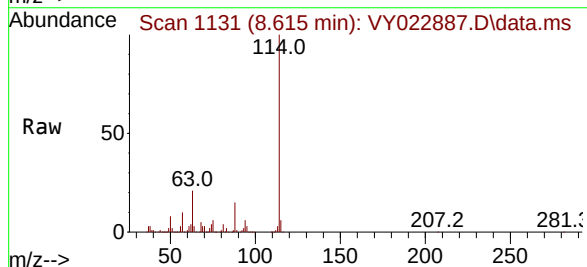
Tgt Ion: 114 Resp: 573423

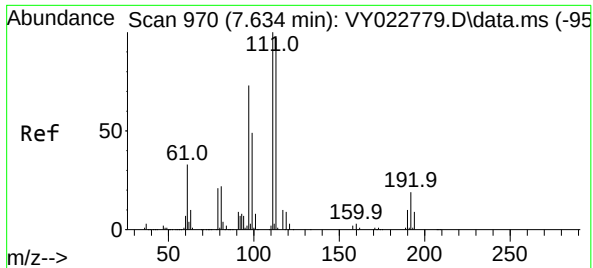
Ion Ratio Lower Upper

114 100

63 21.3 0.0 40.8

88 15.1 0.0 27.8





#35

Dibromofluoromethane

Concen: 50.631 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY022887.D

Acq: 30 Jun 2025 17:59

Instrument :

MSVOA_Y

ClientSampleId :

TP-76

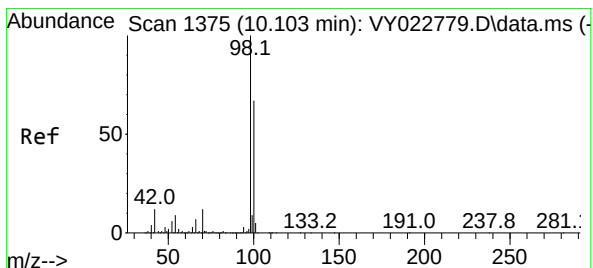
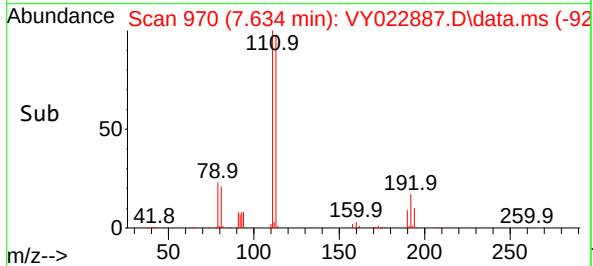
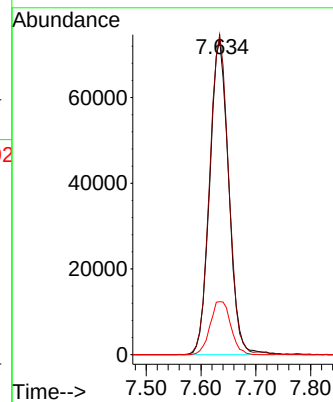
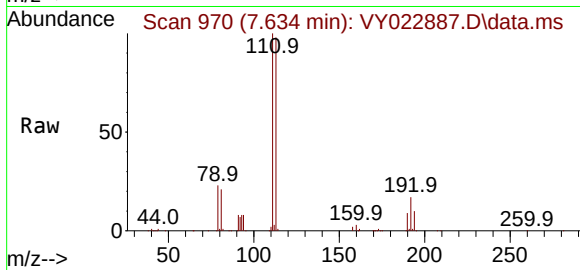
Tgt Ion:113 Resp: 176566

Ion Ratio Lower Upper

113 100

111 102.2 81.1 121.7

192 18.3 14.2 21.2



#50

Toluene-d8

Concen: 51.396 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022887.D

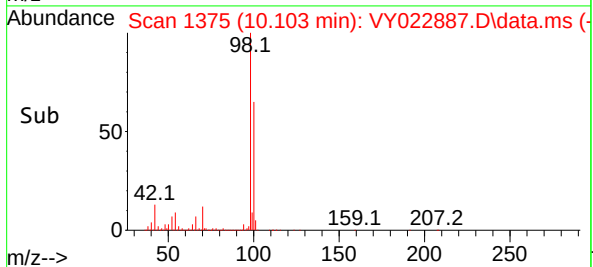
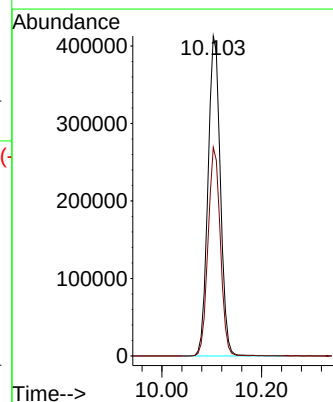
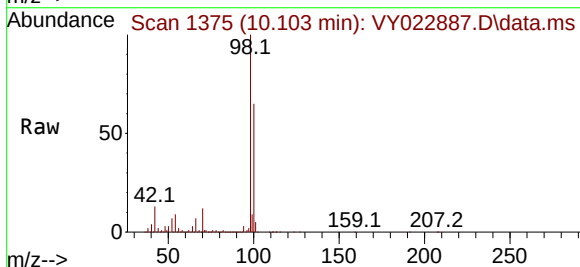
Acq: 30 Jun 2025 17:59

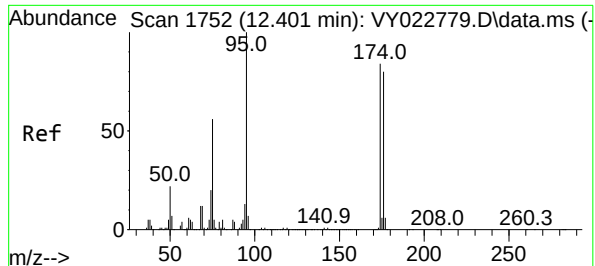
Tgt Ion: 98 Resp: 711217

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0





#62

4-Bromofluorobenzene

Concen: 59.164 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022887.D

Acq: 30 Jun 2025 17:59

Instrument :

MSVOA_Y

ClientSampleId :

TP-76

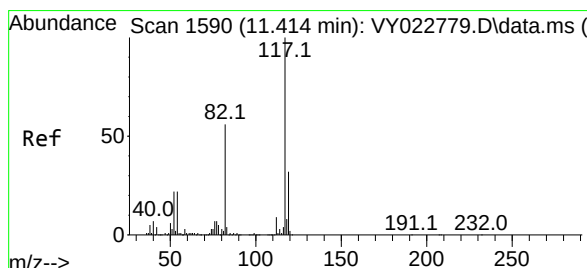
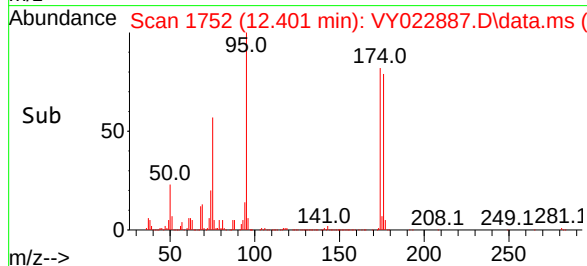
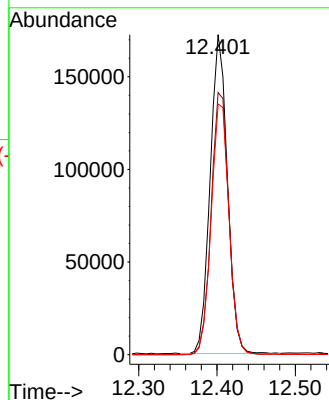
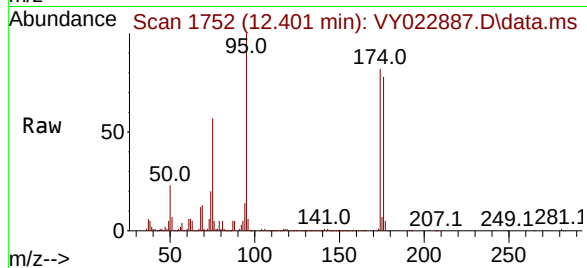
Tgt Ion: 95 Resp: 263188

Ion Ratio Lower Upper

95 100

174 84.4 0.0 170.0

176 81.4 0.0 166.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY022887.D

Acq: 30 Jun 2025 17:59

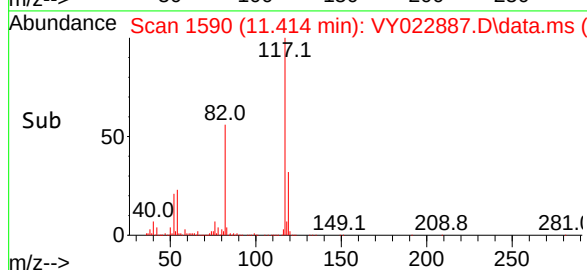
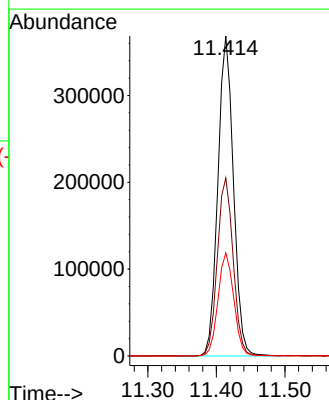
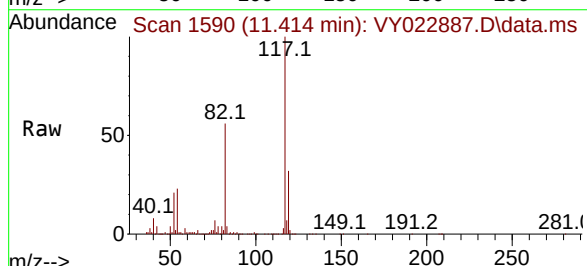
Tgt Ion: 117 Resp: 579838

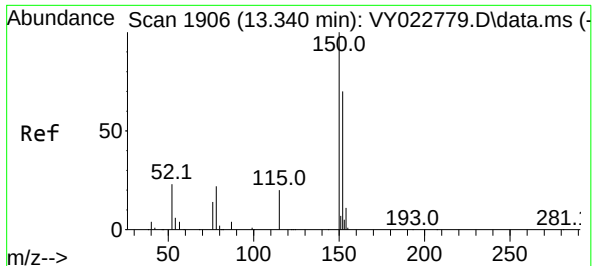
Ion Ratio Lower Upper

117 100

82 55.6 44.6 66.8

119 32.2 25.4 38.0

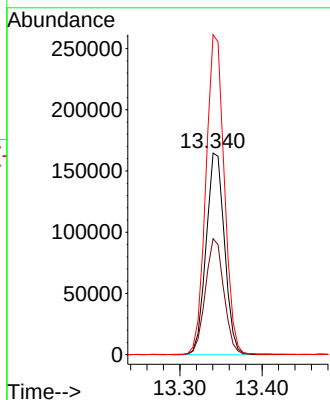
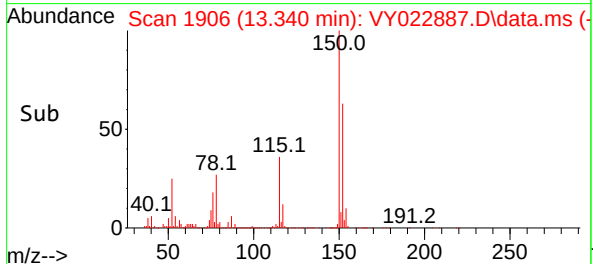
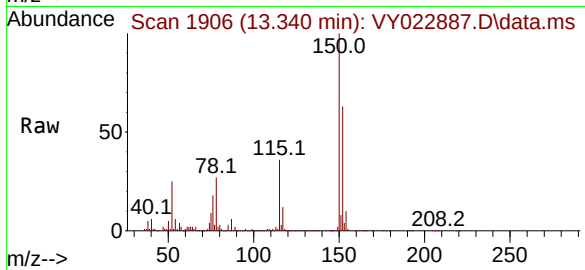




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY022887.D
Acq: 30 Jun 2025 17:59

Instrument :
MSVOA_Y
ClientSampleId :
TP-76

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.9	86.7
150	158.2	0.0	349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022887.D
 Acq On : 30 Jun 2025 17:59
 Operator : SY/MD
 Sample : Q2458-01
 Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-76

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Title : SW846 8260

Signal : TIC: VY022887.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.092	46	61	63	rBV4	12904	37886	1.99%	0.358%
2	4.610	464	474	488	rBV2	63869	201896	10.59%	1.907%
3	5.647	632	644	652	rBV7	13487	42953	2.25%	0.406%
4	7.634	960	970	976	rBV	245320	600655	31.51%	5.672%
5	7.707	976	982	992	rVB	402952	917618	48.13%	8.666%
6	8.061	1031	1040	1053	rBV	228865	494026	25.91%	4.665%
7	8.615	1121	1131	1143	rBV	684623	1372659	72.00%	12.963%
8	10.103	1368	1375	1383	rBV	1106217	1906375	100.00%	18.003%
9	10.164	1383	1385	1391	rVB3	11559	20560	1.08%	0.194%
10	11.414	1582	1590	1602	rBV	1151620	1860761	97.61%	17.572%
11	12.401	1746	1752	1762	rBV	921474	1432580	75.15%	13.529%
12	13.340	1899	1906	1914	rBV	1055257	1651818	86.65%	15.599%
13	13.883	1991	1995	2005	rVB	23351	49294	2.59%	0.466%

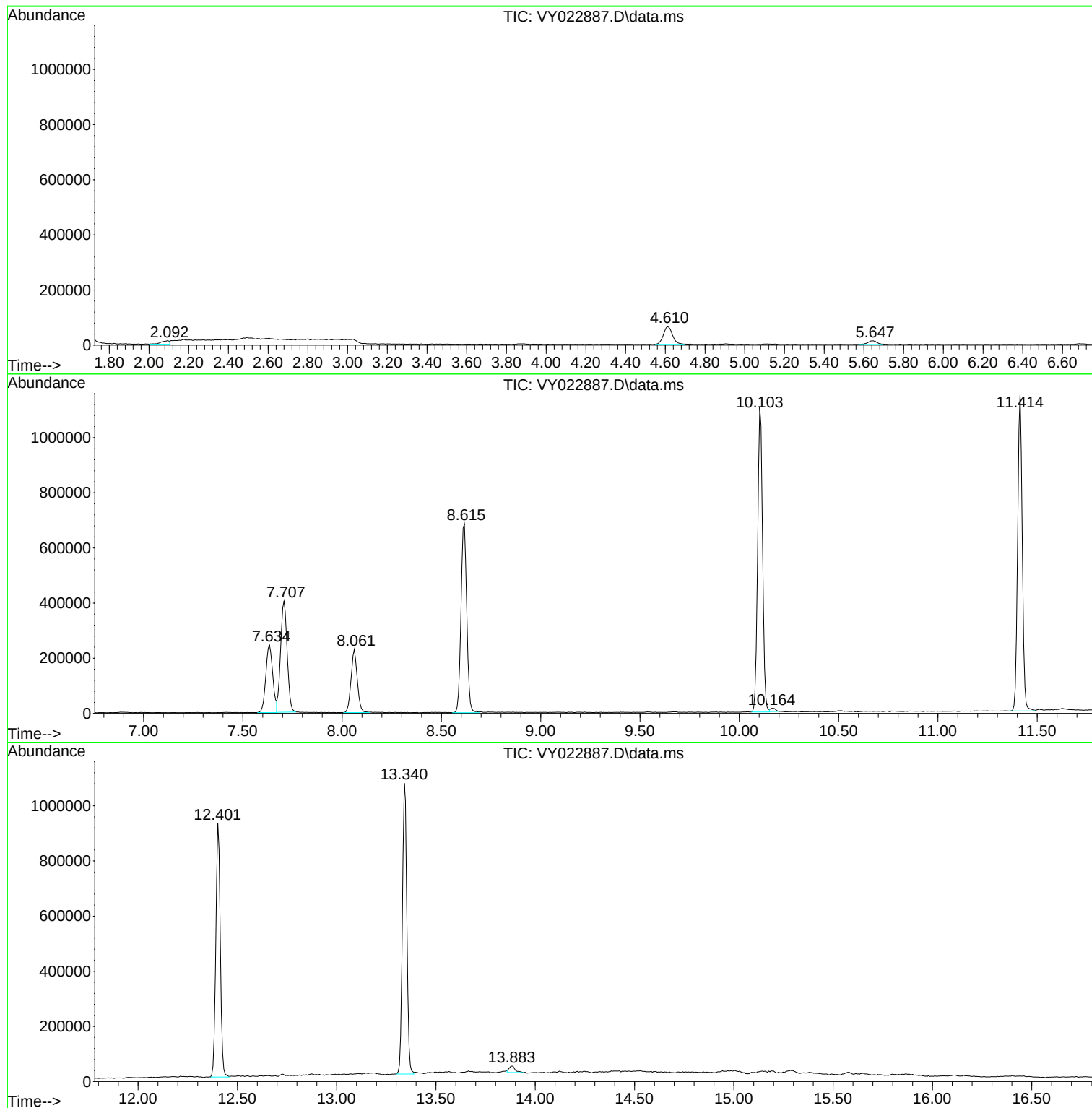
Sum of corrected areas: 10589081

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022887.D
Acq On : 30 Jun 2025 17:59
Operator : SY/MD
Sample : Q2458-01
Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-76

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022887.D
Acq On : 30 Jun 2025 17:59
Operator : SY/MD
Sample : Q2458-01
Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-76

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022887.D
Acq On : 30 Jun 2025 17:59
Operator : SY/MD
Sample : Q2458-01
Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-76

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	3.49 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022888.D	1	06/30/25 18:22	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.80	U	1.80	7.80	ug/Kg
74-87-3	Chloromethane	1.80	U	1.80	7.80	ug/Kg
75-01-4	Vinyl Chloride	1.20	U	1.20	7.80	ug/Kg
74-83-9	Bromomethane	1.70	U	1.70	7.80	ug/Kg
75-00-3	Chloroethane	2.00	U	2.00	7.80	ug/Kg
75-69-4	Trichlorofluoromethane	1.90	U	1.90	7.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.70	U	1.70	7.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.60	U	1.60	7.80	ug/Kg
67-64-1	Acetone	7.40	U	7.40	39.2	ug/Kg
75-15-0	Carbon Disulfide	1.70	U	1.70	7.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.10	U	1.10	7.80	ug/Kg
79-20-9	Methyl Acetate	2.40	U	2.40	7.80	ug/Kg
75-09-2	Methylene Chloride	12.9	J	5.50	15.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.30	U	1.30	7.80	ug/Kg
75-34-3	1,1-Dichloroethane	1.30	U	1.30	7.80	ug/Kg
110-82-7	Cyclohexane	1.20	U	1.20	7.80	ug/Kg
78-93-3	2-Butanone	10.3	U	10.3	39.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.50	U	1.50	7.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.20	U	1.20	7.80	ug/Kg
74-97-5	Bromochloromethane	1.80	U	1.80	7.80	ug/Kg
67-66-3	Chloroform	1.30	U	1.30	7.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.50	U	1.50	7.80	ug/Kg
108-87-2	Methylcyclohexane	1.40	U	1.40	7.80	ug/Kg
71-43-2	Benzene	1.20	U	1.20	7.80	ug/Kg
107-06-2	1,2-Dichloroethane	1.20	U	1.20	7.80	ug/Kg
79-01-6	Trichloroethene	1.30	U	1.30	7.80	ug/Kg
78-87-5	1,2-Dichloropropane	1.40	U	1.40	7.80	ug/Kg
75-27-4	Bromodichloromethane	1.20	U	1.20	7.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.60	U	5.60	39.2	ug/Kg
108-88-3	Toluene	1.20	U	1.20	7.80	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	3.49 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022888.D	1	06/30/25 18:22	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.00	U	1.00	7.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.97	U	0.97	7.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.40	U	1.40	7.80	ug/Kg
591-78-6	2-Hexanone	5.80	U	5.80	39.2	ug/Kg
124-48-1	Dibromochloromethane	1.40	U	1.40	7.80	ug/Kg
106-93-4	1,2-Dibromoethane	1.40	U	1.40	7.80	ug/Kg
127-18-4	Tetrachloroethene	1.60	U	1.60	7.80	ug/Kg
108-90-7	Chlorobenzene	1.40	U	1.40	7.80	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	7.80	ug/Kg
179601-23-1	m/p-Xylenes	1.90	U	1.90	15.7	ug/Kg
95-47-6	o-Xylene	1.30	U	1.30	7.80	ug/Kg
100-42-5	Styrene	1.10	U	1.10	7.80	ug/Kg
75-25-2	Bromoform	1.30	U	1.30	7.80	ug/Kg
98-82-8	Isopropylbenzene	1.20	U	1.20	7.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.90	U	1.90	7.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.70	U	2.70	7.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.40	U	2.40	7.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.30	U	2.30	7.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.90	U	2.90	7.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.70	U	4.70	7.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.00	U	5.00	7.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	50.6		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.5		17 - 146	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	303000	7.707			
540-36-3	1,4-Difluorobenzene	573000	8.616			
3114-55-4	Chlorobenzene-d5	562000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	240000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	3.49 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022888.D	1	06/30/25 18:22	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022888.D
 Acq On : 30 Jun 2025 18:22
 Operator : SY/MD
 Sample : Q2458-02
 Misc : 3.49g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-55

Quant Time: Jul 01 03:42:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

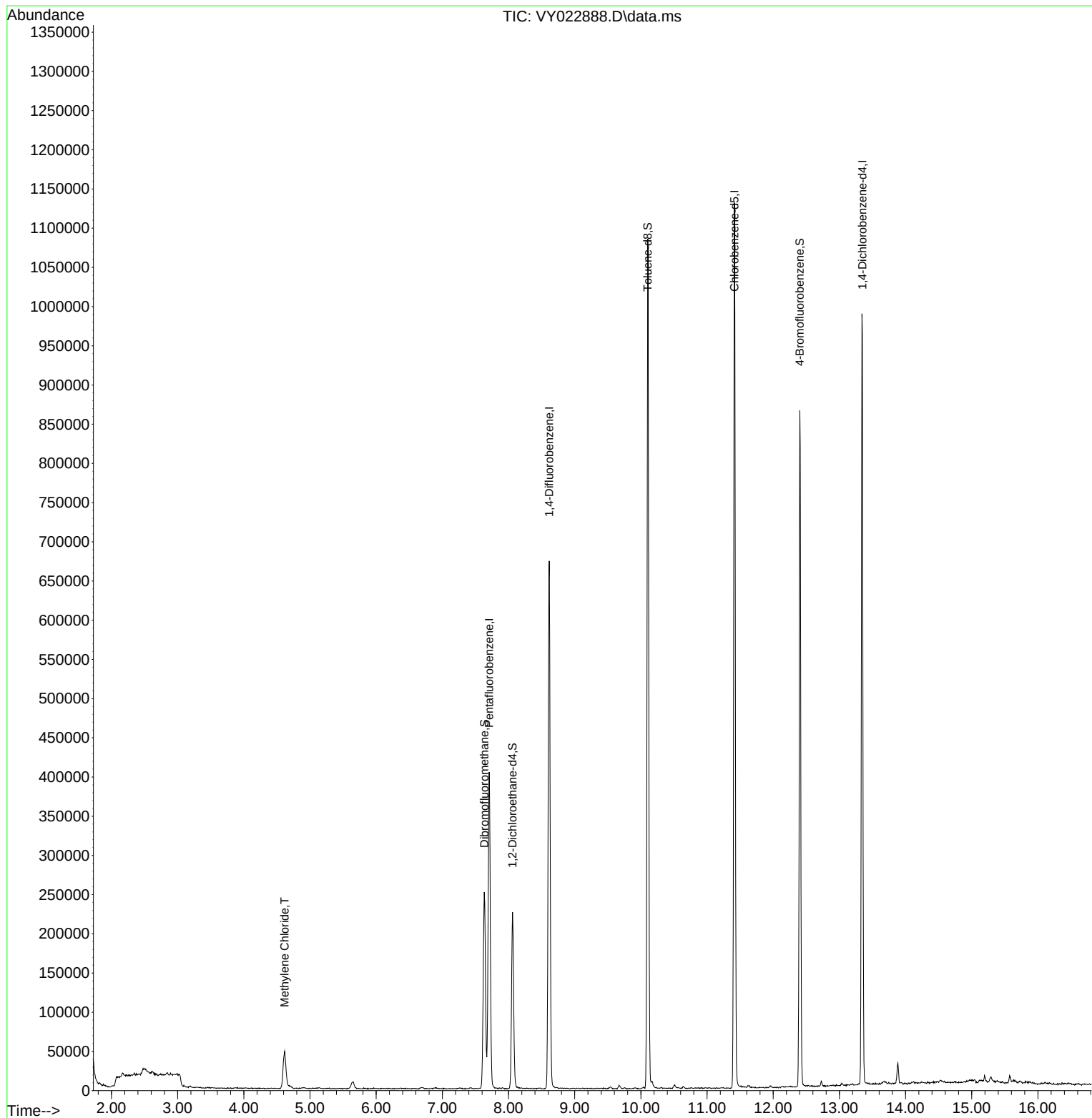
Internal Standards						
1) Pentafluorobenzene	7.707	168	302919	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	573452	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	562005	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	240190	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	175271	51.842	ug/l	0.00
Spiked Amount	50.000	Range 50 - 163	Recovery	= 103.680%		
35) Dibromofluoromethane	7.634	113	179092	51.353	ug/l	0.00
Spiked Amount	50.000	Range 54 - 147	Recovery	= 102.700%		
50) Toluene-d8	10.103	98	700038	50.585	ug/l	0.00
Spiked Amount	50.000	Range 58 - 134	Recovery	= 101.180%		
62) 4-Bromofluorobenzene	12.401	95	251178	56.461	ug/l	0.00
Spiked Amount	50.000	Range 30 - 143	Recovery	= 112.920%		
Target Compounds						
20) Methylene Chloride	4.616	84	33100	8.202	ug/l	Qvalue 95

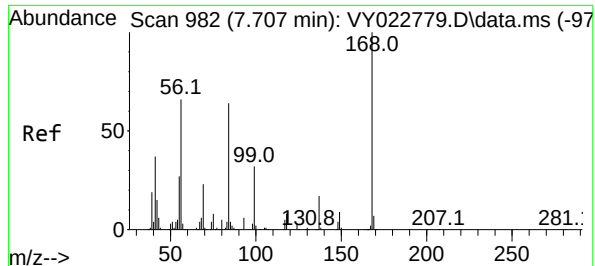
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022888.D
Acq On : 30 Jun 2025 18:22
Operator : SY/MD
Sample : Q2458-02
Misc : 3.49g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-55

Quant Time: Jul 01 03:42:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

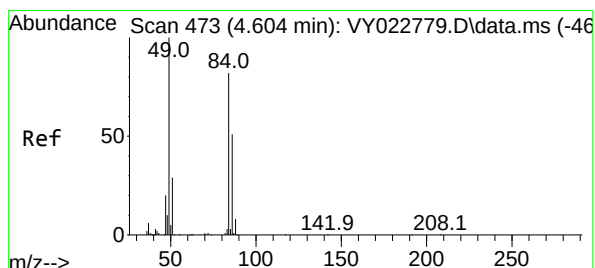
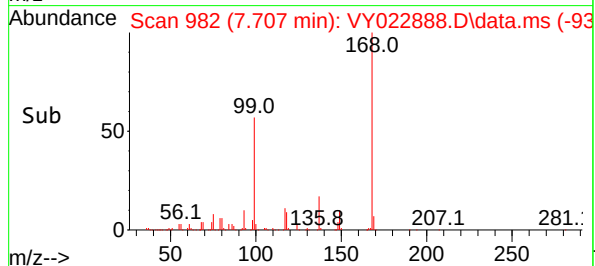
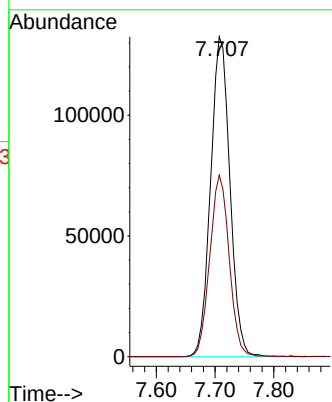
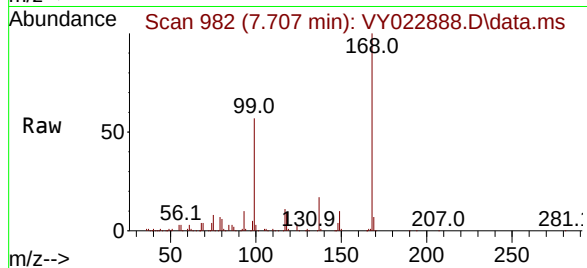




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.006 min
Lab File: VY022888.D
Acq: 30 Jun 2025 18:22

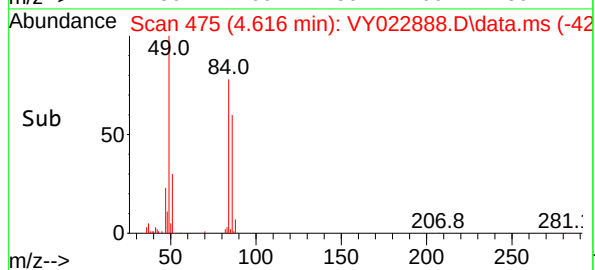
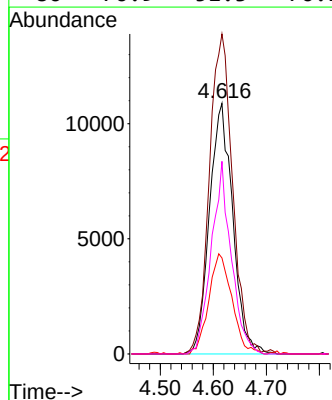
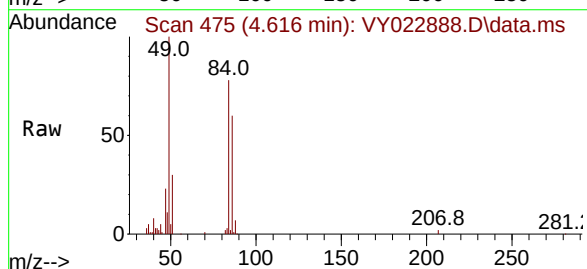
Instrument :
MSVOA_Y
ClientSampleId :
TP-55

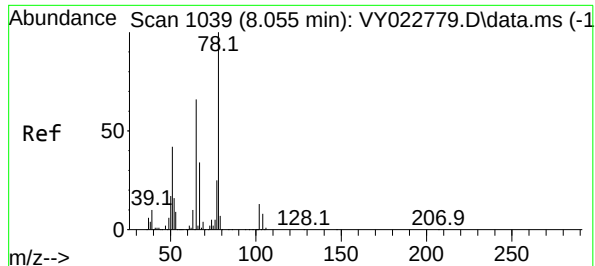
Tgt Ion:168 Resp: 302919
Ion Ratio Lower Upper
168 100
99 56.7 44.3 66.5



#20
Methylene Chloride
Concen: 8.202 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022888.D
Acq: 30 Jun 2025 18:22

Tgt Ion: 84 Resp: 33100
Ion Ratio Lower Upper
84 100
49 127.7 101.9 152.9
51 38.3 29.8 44.8
86 76.9 51.3 76.9





#33

1,2-Dichloroethane-d4

Concen: 51.842 ug/l

RT: 8.061 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022888.D

Acq: 30 Jun 2025 18:22

Instrument :

MSVOA_Y

ClientSampleId :

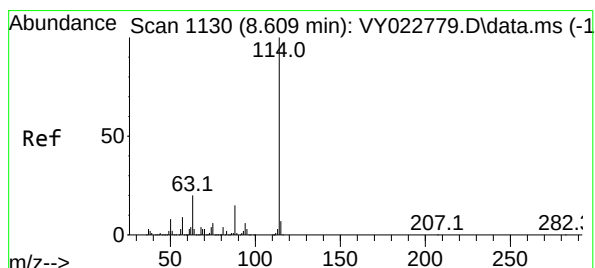
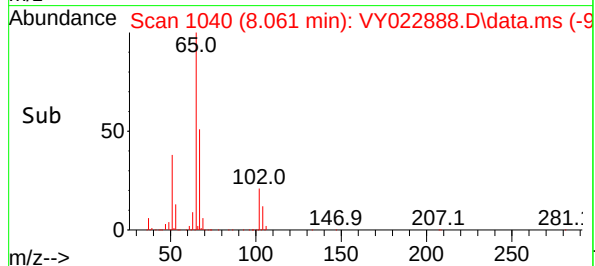
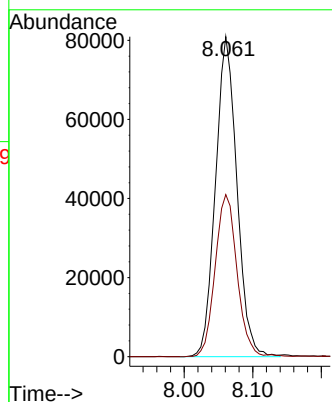
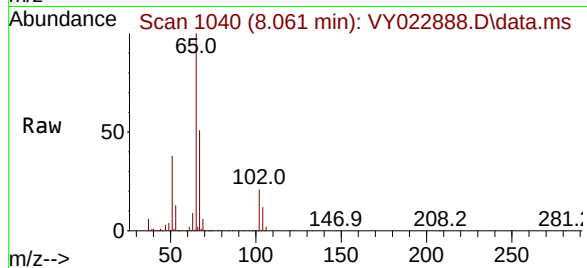
TP-55

Tgt Ion: 65 Resp: 175271

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022888.D

Acq: 30 Jun 2025 18:22

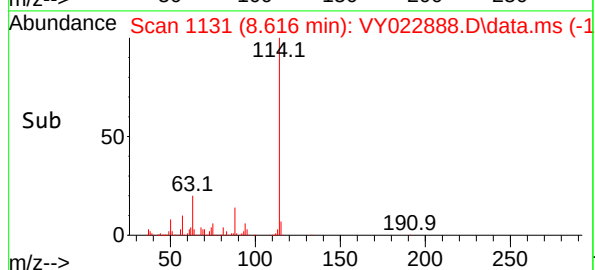
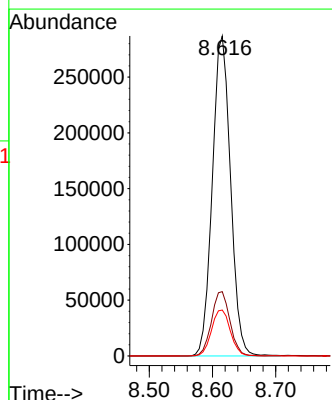
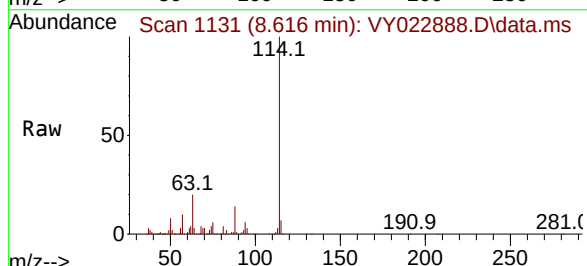
Tgt Ion: 114 Resp: 573452

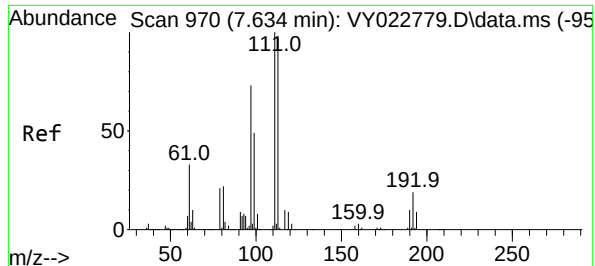
Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

88 14.4 0.0 27.8





#35

Dibromofluoromethane

Concen: 51.353 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY022888.D

Acq: 30 Jun 2025 18:22

Instrument :

MSVOA_Y

ClientSampleId :

TP-55

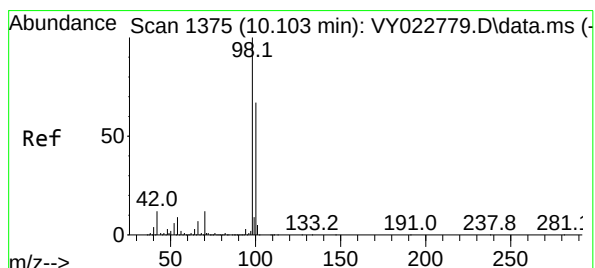
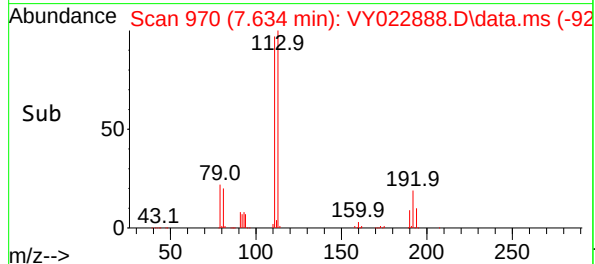
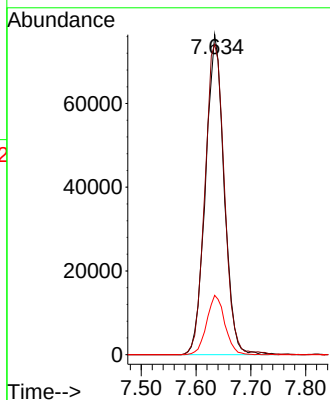
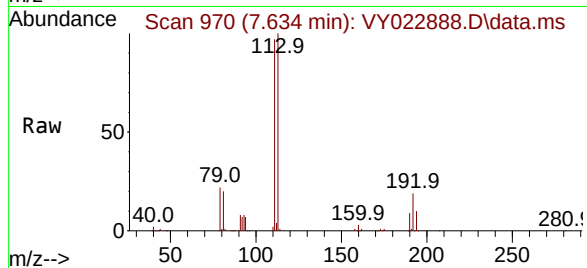
Tgt Ion:113 Resp: 179092

Ion Ratio Lower Upper

113 100

111 101.6 81.1 121.7

192 18.2 14.2 21.2



#50

Toluene-d8

Concen: 50.585 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022888.D

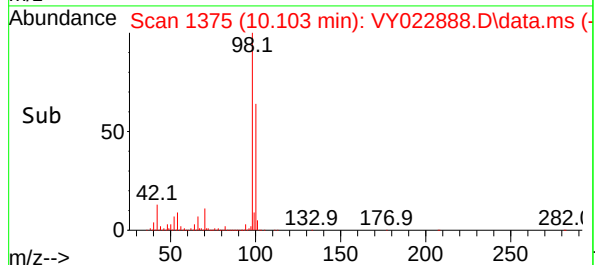
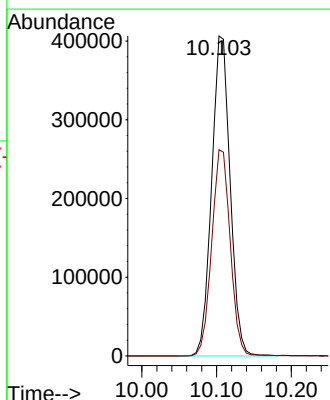
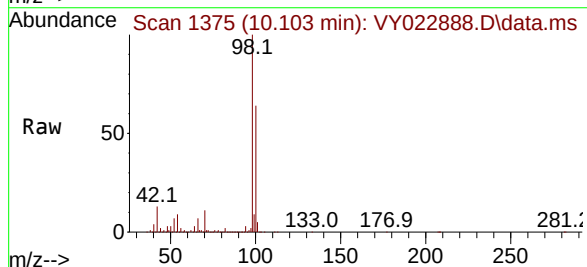
Acq: 30 Jun 2025 18:22

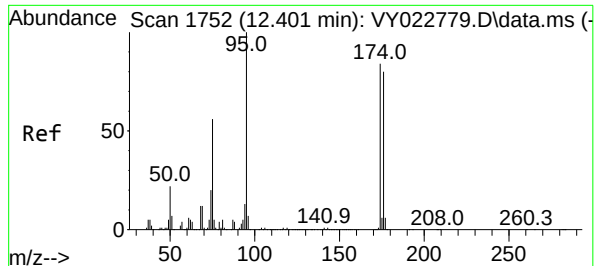
Tgt Ion: 98 Resp: 700038

Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.0





#62

4-Bromofluorobenzene

Concen: 56.461 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022888.D

Acq: 30 Jun 2025 18:22

Instrument :

MSVOA_Y

ClientSampleId :

TP-55

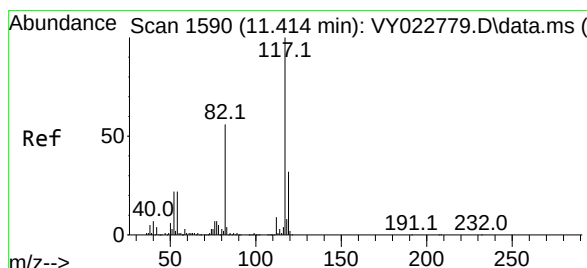
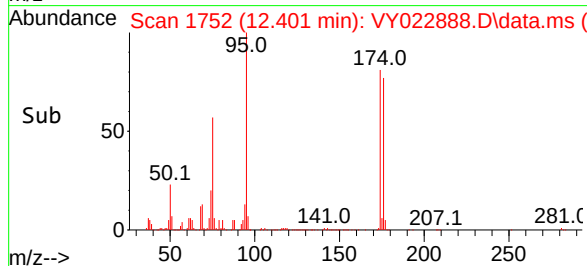
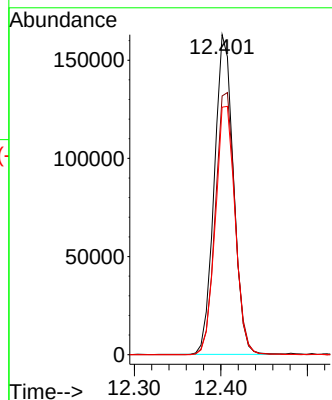
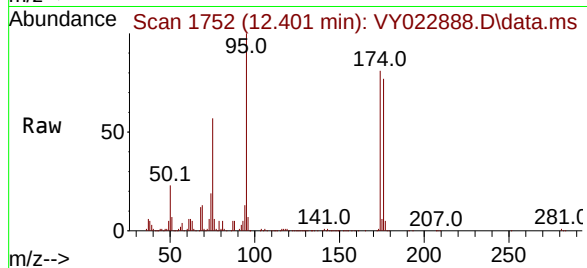
Tgt Ion: 95 Resp: 251178

Ion Ratio Lower Upper

95 100

174 84.4 0.0 170.0

176 80.1 0.0 166.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY022888.D

Acq: 30 Jun 2025 18:22

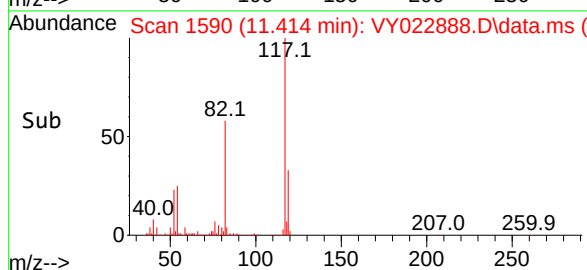
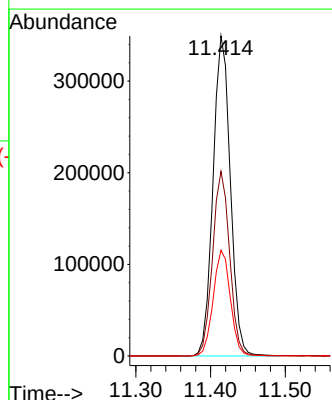
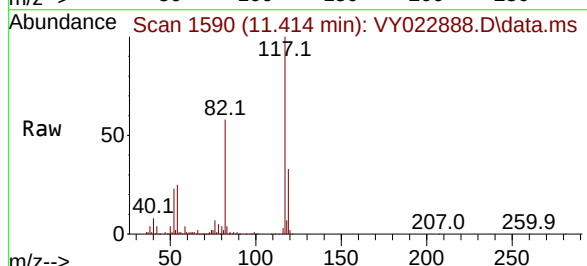
Tgt Ion: 117 Resp: 562005

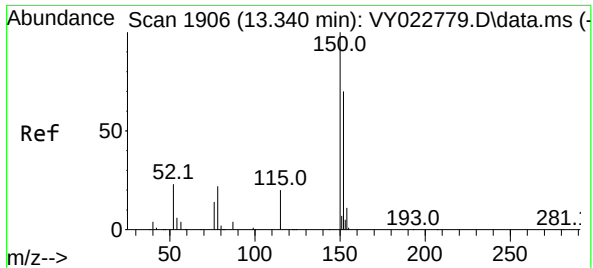
Ion Ratio Lower Upper

117 100

82 57.7 44.6 66.8

119 33.0 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022888.D

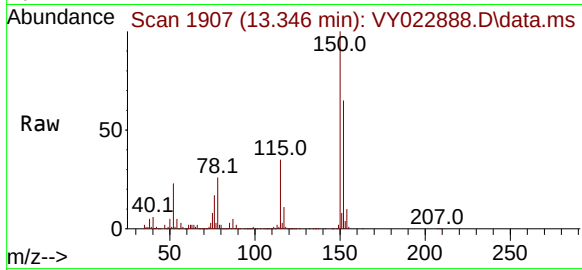
Acq: 30 Jun 2025 18:22

Instrument :

MSVOA_Y

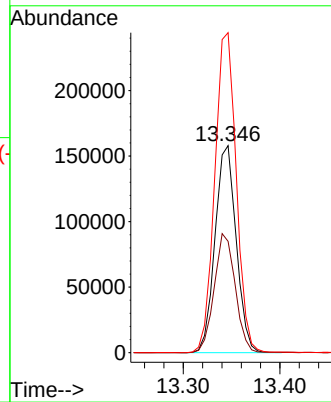
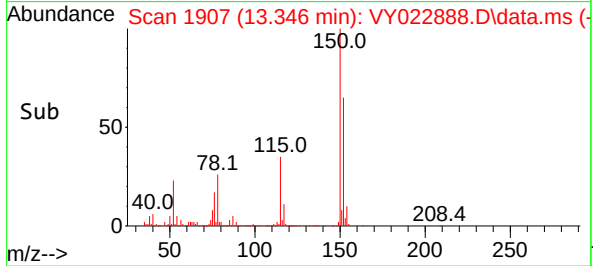
ClientSampleId :

TP-55



Tgt Ion:152 Resp: 240190

Ion	Ratio	Lower	Upper
152	100		
115	57.2	28.9	86.7
150	157.0	0.0	349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022888.D
Acq On : 30 Jun 2025 18:22
Operator : SY/MD
Sample : Q2458-02
Misc : 3.49g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-55

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Title : SW846 8260

Signal : TIC: VY022888.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.086	52	60	61	rBV2	12018	25836	1.38%	0.253%
2	4.616	464	475	489	rBV2	47478	153358	8.17%	1.503%
3	5.653	632	645	650	rBV6	8695	27823	1.48%	0.273%
4	7.634	960	970	976	rBV	250439	599283	31.91%	5.874%
5	7.707	976	982	995	rVB	403157	917003	48.83%	8.988%
6	8.061	1029	1040	1052	rBV	225139	499028	26.57%	4.891%
7	8.616	1120	1131	1145	rBV	673271	1364877	72.68%	13.378%
8	10.103	1368	1375	1384	rBV	1083776	1877953	100.00%	18.407%
9	11.414	1581	1590	1604	rBV	1129423	1813017	96.54%	17.771%
10	12.401	1745	1752	1766	rBV	862076	1358768	72.35%	13.318%
11	13.340	1900	1906	1916	rBV	982395	1523328	81.12%	14.931%
12	13.883	1989	1995	2000	rBV	25915	41844	2.23%	0.410%

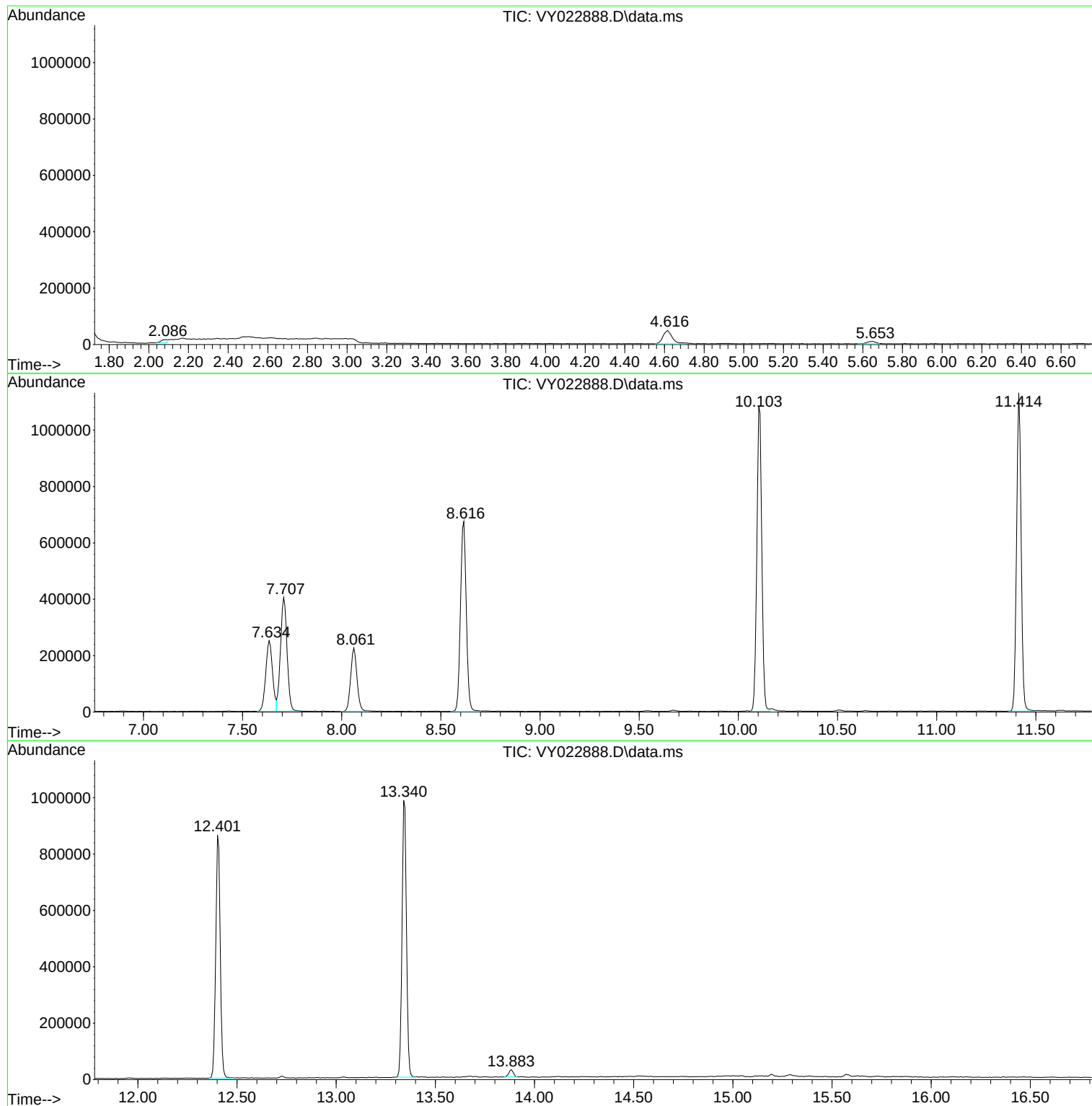
Sum of corrected areas: 10202118

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022888.D
Acq On : 30 Jun 2025 18:22
Operator : SY/MD
Sample : Q2458-02
Misc : 3.49g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-55

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022888.D
Acq On : 30 Jun 2025 18:22
Operator : SY/MD
Sample : Q2458-02
Misc : 3.49g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-55

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022888.D
Acq On : 30 Jun 2025 18:22
Operator : SY/MD
Sample : Q2458-02
Misc : 3.49g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-55

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022897.D	1	07/01/25 13:20	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.60	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.72	U	0.72	4.60	ug/Kg
74-83-9	Bromomethane	0.98	U	0.98	4.60	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.97	U	0.97	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.92	U	0.92	4.60	ug/Kg
67-64-1	Acetone	4.30	U	4.30	22.9	ug/Kg
75-15-0	Carbon Disulfide	0.97	U	0.97	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.79	U	0.79	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
110-82-7	Cyclohexane	0.72	U	0.72	4.60	ug/Kg
78-93-3	2-Butanone	6.00	U	6.00	22.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.89	U	0.89	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.69	U	0.69	4.60	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.60	ug/Kg
67-66-3	Chloroform	0.77	U	0.77	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.83	U	0.83	4.60	ug/Kg
71-43-2	Benzene	0.72	U	0.72	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.72	U	0.72	4.60	ug/Kg
79-01-6	Trichloroethene	0.74	U	0.74	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.83	U	0.83	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	22.9	ug/Kg
108-88-3	Toluene	0.71	U	0.71	4.60	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022897.D	1	07/01/25 13:20	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.59	U	0.59	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	22.9	ug/Kg
124-48-1	Dibromochloromethane	0.80	U	0.80	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.81	U	0.81	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.96	U	0.96	4.60	ug/Kg
108-90-7	Chlorobenzene	0.83	U	0.83	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.61	U	0.61	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.20	ug/Kg
95-47-6	o-Xylene	0.75	U	0.75	4.60	ug/Kg
100-42-5	Styrene	0.65	U	0.65	4.60	ug/Kg
75-25-2	Bromoform	0.79	U	0.79	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.71	U	0.71	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	51.1		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.0		17 - 146	114%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	309000	7.707			
540-36-3	1,4-Difluorobenzene	580000	8.61			
3114-55-4	Chlorobenzene-d5	587000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	251000	13.347			

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022897.D	1	07/01/25 13:20	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022897.D
 Acq On : 01 Jul 2025 13:20
 Operator : SY/MD
 Sample : Q2458-03
 Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-68

Quant Time: Jul 02 02:46:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	309337	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	580195	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	586876	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	251388	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	176384	51.089	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	102.180%
35) Dibromofluoromethane	7.634	113	184079	52.170	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	104.340%
50) Toluene-d8	10.103	98	716167	51.149	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.300%
62) 4-Bromofluorobenzene	12.402	95	256602	57.010	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	114.020%

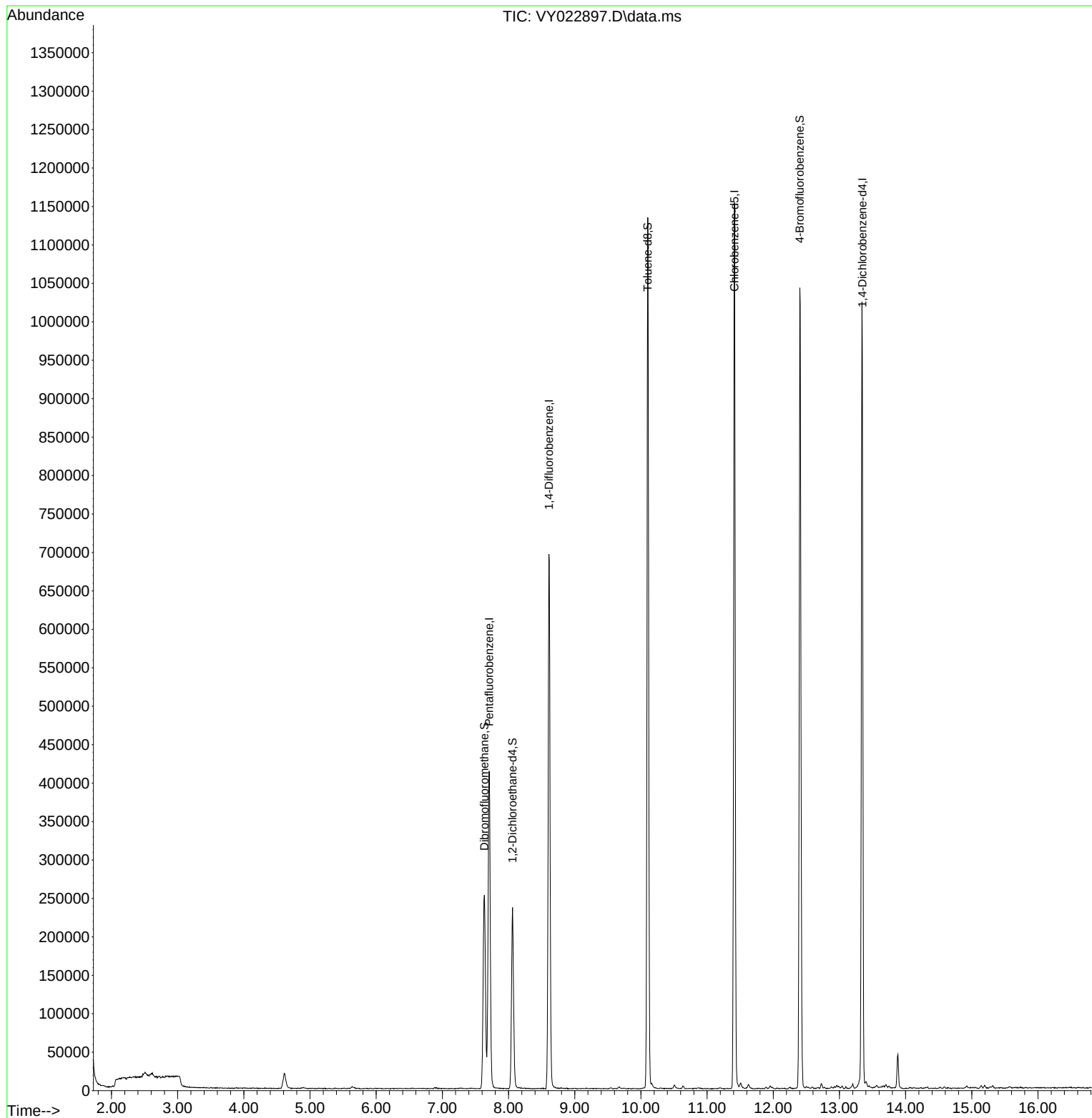
Target Compounds	Qvalue

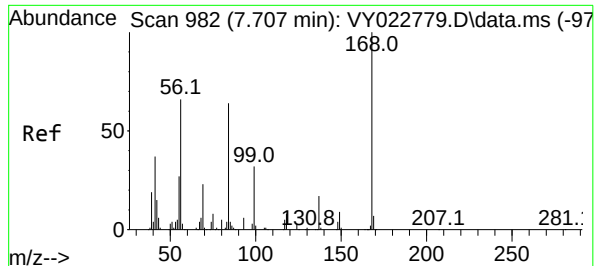
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022897.D
Acq On : 01 Jul 2025 13:20
Operator : SY/MD
Sample : Q2458-03
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-68

Quant Time: Jul 02 02:46:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

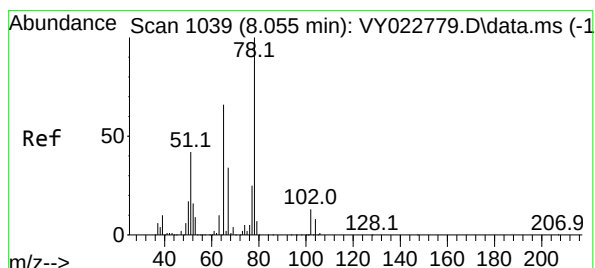
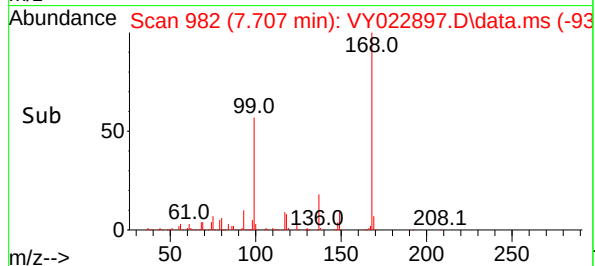
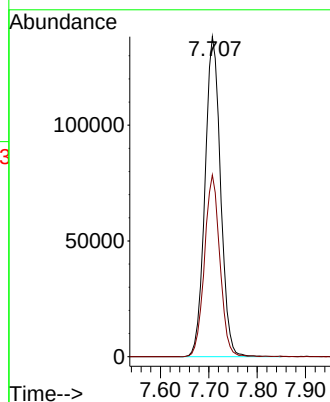
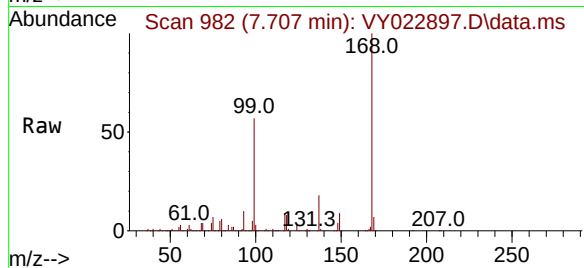




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022897.D
Acq: 01 Jul 2025 13:20

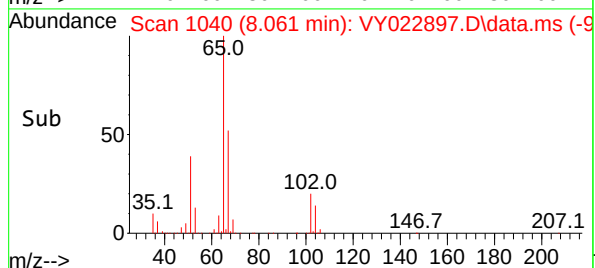
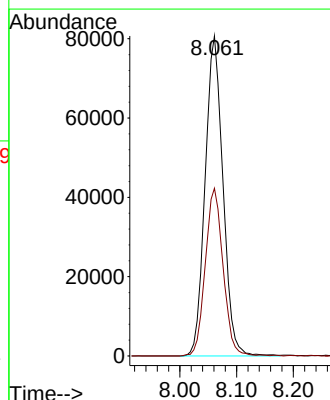
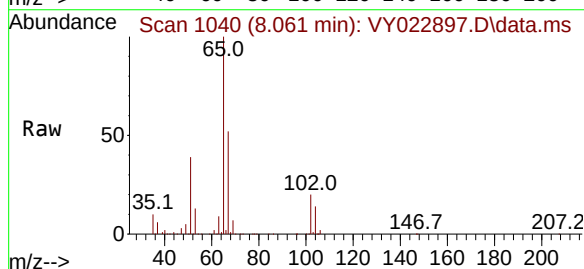
Instrument :
MSVOA_Y
ClientSampleId :
TP-68

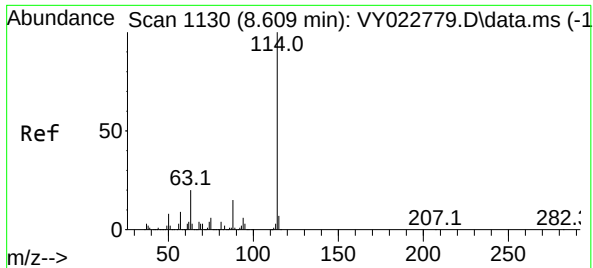
Tgt Ion:168 Resp: 309337
Ion Ratio Lower Upper
168 100
99 56.8 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 51.089 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022897.D
Acq: 01 Jul 2025 13:20

Tgt Ion: 65 Resp: 176384
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022897.D

Acq: 01 Jul 2025 13:20

Instrument :

MSVOA_Y

ClientSampleId :

TP-68

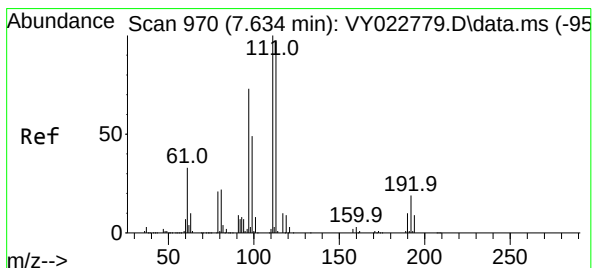
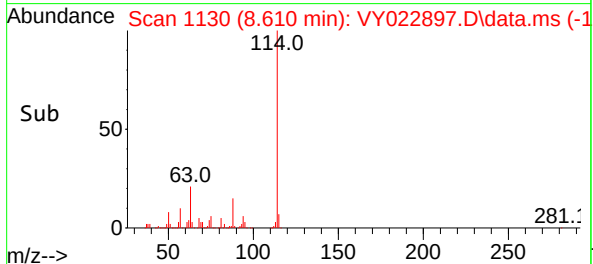
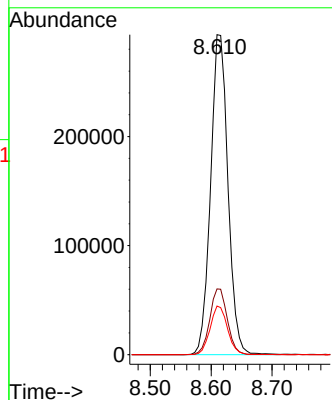
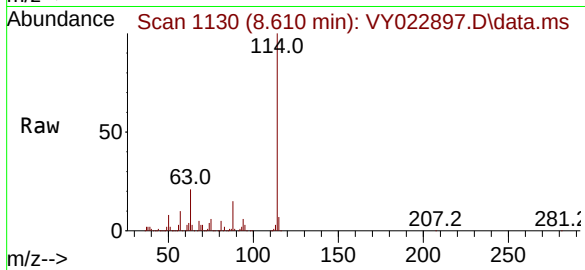
Tgt Ion:114 Resp: 580195

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 15.2 0.0 27.8



#35

Dibromofluoromethane

Concen: 52.170 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022897.D

Acq: 01 Jul 2025 13:20

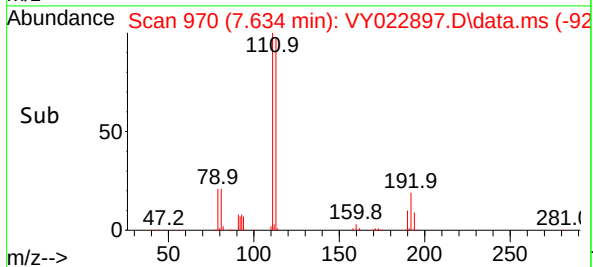
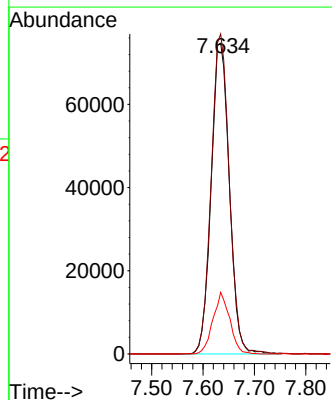
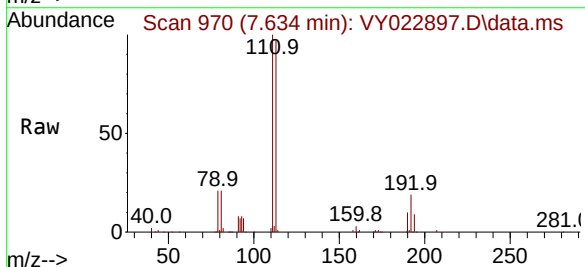
Tgt Ion:113 Resp: 184079

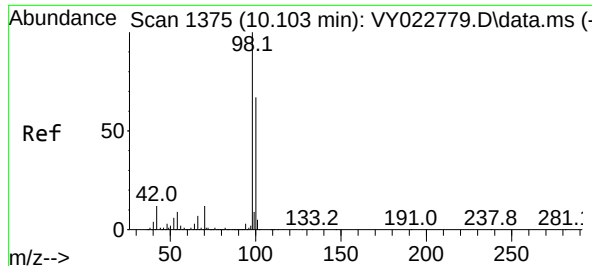
Ion Ratio Lower Upper

113 100

111 102.4 81.1 121.7

192 18.3 14.2 21.2





#50

Toluene-d8

Concen: 51.149 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022897.D

Acq: 01 Jul 2025 13:20

Instrument :

MSVOA_Y

ClientSampleId :

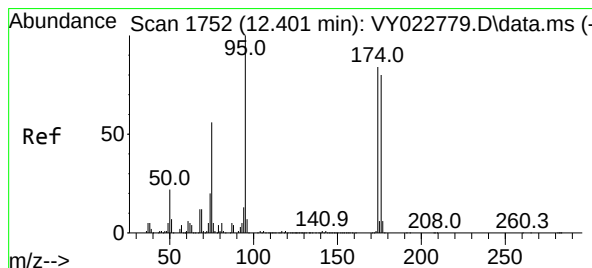
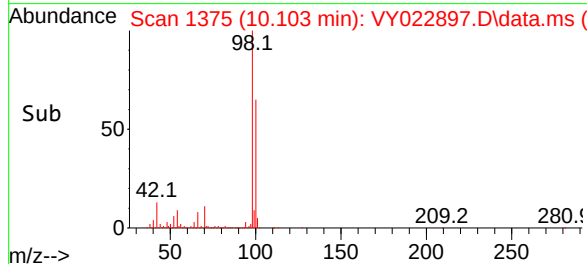
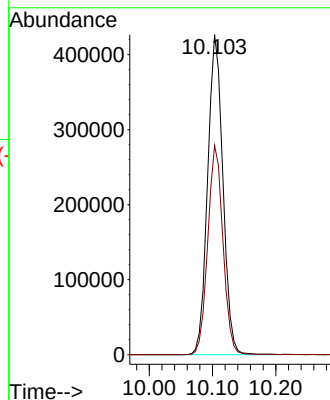
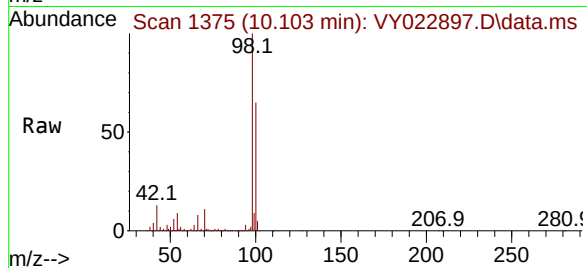
TP-68

Tgt Ion: 98 Resp: 716167

Ion Ratio Lower Upper

98 100

100 65.1 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 57.010 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022897.D

Acq: 01 Jul 2025 13:20

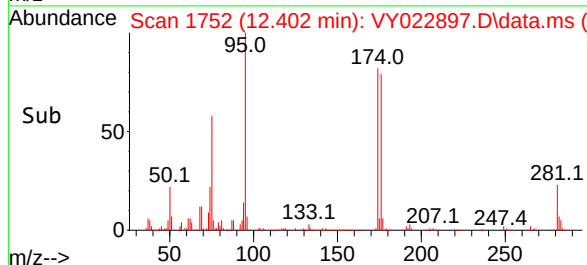
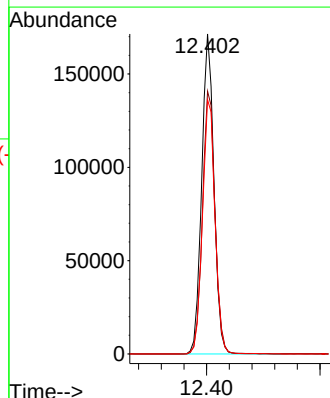
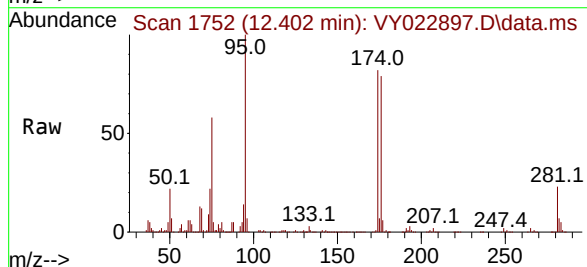
Tgt Ion: 95 Resp: 256602

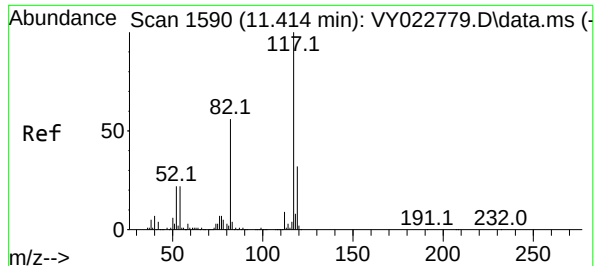
Ion Ratio Lower Upper

95 100

174 84.0 0.0 170.0

176 81.4 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022897.D

Acq: 01 Jul 2025 13:20

Instrument :

MSVOA_Y

ClientSampleId :

TP-68

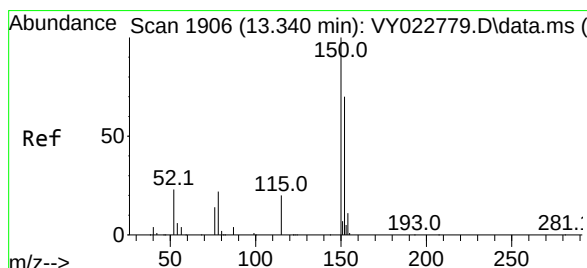
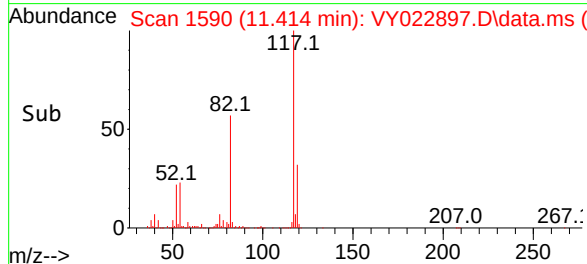
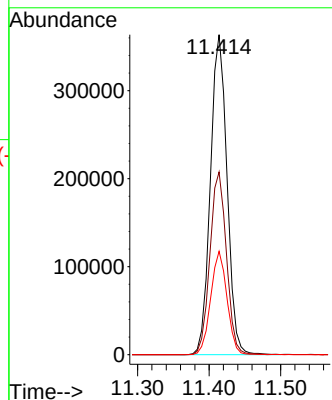
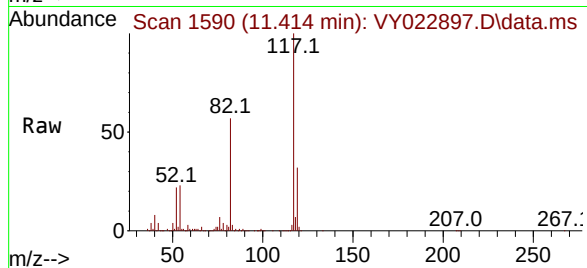
Tgt Ion:117 Resp: 586876

Ion Ratio Lower Upper

117 100

82 57.1 44.6 66.8

119 32.3 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022897.D

Acq: 01 Jul 2025 13:20

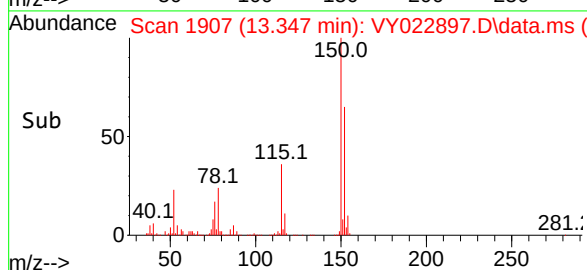
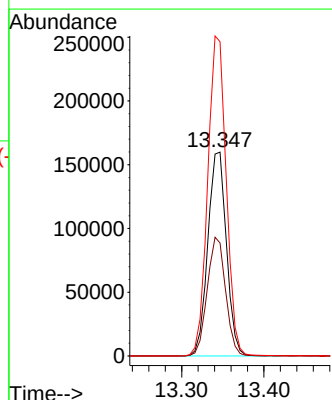
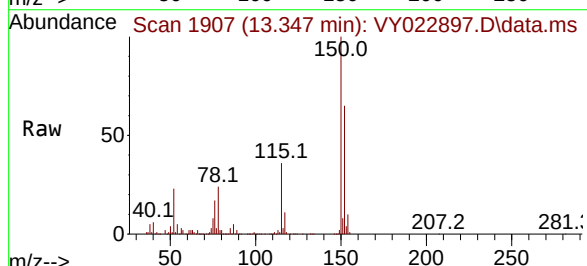
Tgt Ion:152 Resp: 251388

Ion Ratio Lower Upper

152 100

115 57.5 28.9 86.7

150 155.8 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022897.D
Acq On : 01 Jul 2025 13:20
Operator : SY/MD
Sample : Q2458-03
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-68

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Title : SW846 8260

Signal : TIC: VY022897.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	466	474	486	rBV	19668	58735	3.07%	0.541%
2	7.634	960	970	976	rBV	251801	619946	32.40%	5.715%
3	7.707	976	982	998	rVB	412379	928276	48.51%	8.557%
4	8.061	1030	1040	1053	rBV	236204	511435	26.73%	4.715%
5	8.610	1122	1130	1142	rBV	695970	1383598	72.31%	12.755%
6	10.103	1366	1375	1383	rBV	1132295	1913498	100.00%	17.639%
7	11.414	1582	1590	1601	rBV	1152356	1864834	97.46%	17.191%
8	12.402	1745	1752	1765	rVB2	1040529	1875988	98.04%	17.294%
9	13.340	1887	1906	1913	rBV	1022971	1615617	84.43%	14.893%
10	13.883	1987	1995	2006	rVB2	44060	75948	3.97%	0.700%

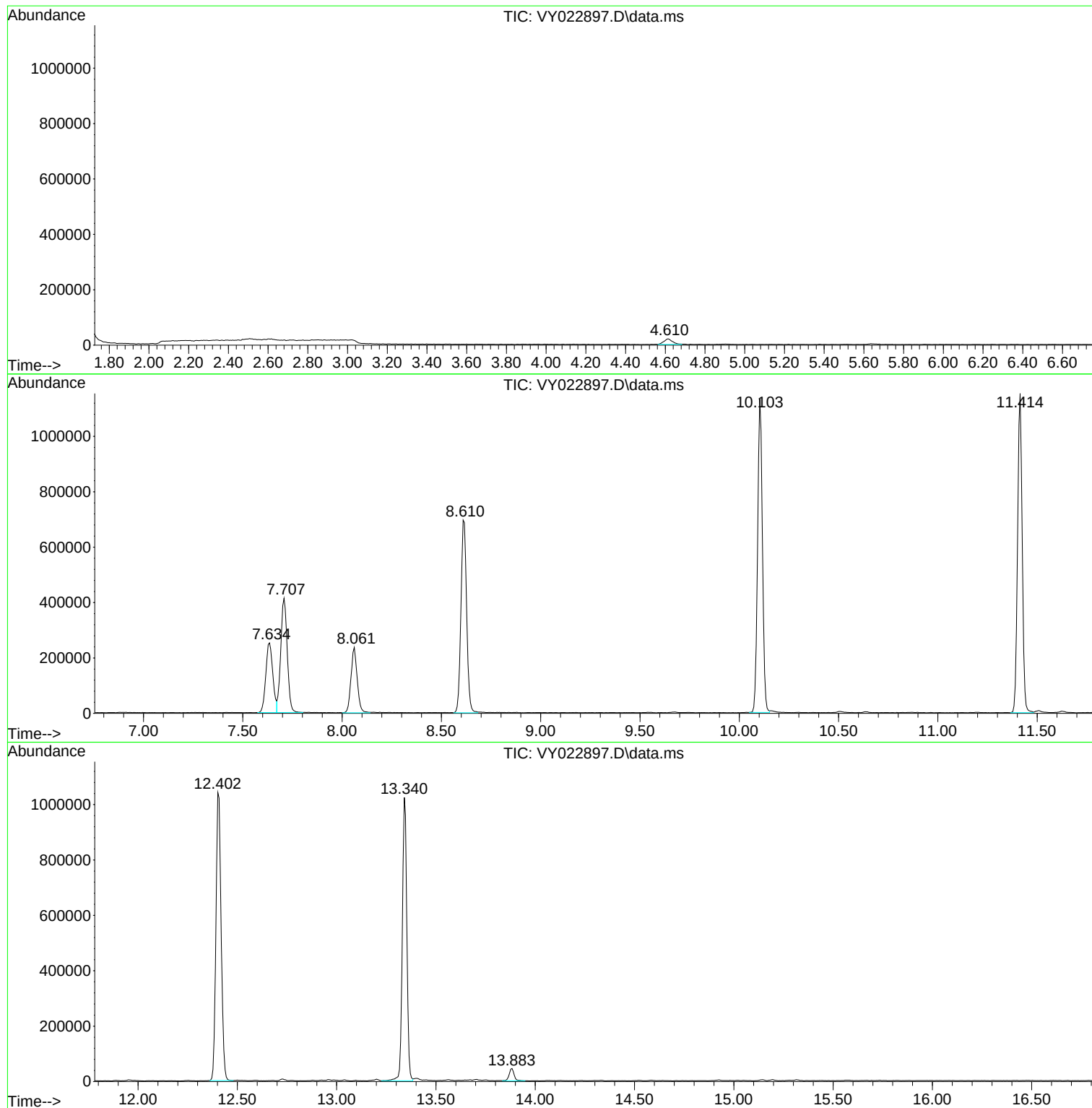
Sum of corrected areas: 10847875

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022897.D
Acq On : 01 Jul 2025 13:20
Operator : SY/MD
Sample : Q2458-03
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-68

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022897.D
Acq On : 01 Jul 2025 13:20
Operator : SY/MD
Sample : Q2458-03
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-68

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022897.D
Acq On : 01 Jul 2025 13:20
Operator : SY/MD
Sample : Q2458-03
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-68

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	4.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022912.D	1	07/02/25 15:09	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	6.80	ug/Kg
74-87-3	Chloromethane	1.60	U	1.60	6.80	ug/Kg
75-01-4	Vinyl Chloride	1.10	U	1.10	6.80	ug/Kg
74-83-9	Bromomethane	1.50	U	1.50	6.80	ug/Kg
75-00-3	Chloroethane	1.70	U	1.70	6.80	ug/Kg
75-69-4	Trichlorofluoromethane	1.70	U	1.70	6.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.40	U	1.40	6.80	ug/Kg
67-64-1	Acetone	6.50	U	6.50	34.2	ug/Kg
75-15-0	Carbon Disulfide	1.40	U	1.40	6.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.00	U	1.00	6.80	ug/Kg
79-20-9	Methyl Acetate	2.10	U	2.10	6.80	ug/Kg
75-09-2	Methylene Chloride	4.80	U	4.80	13.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.20	U	1.20	6.80	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	6.80	ug/Kg
110-82-7	Cyclohexane	1.10	U	1.10	6.80	ug/Kg
78-93-3	2-Butanone	8.90	U	8.90	34.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.30	U	1.30	6.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	6.80	ug/Kg
74-97-5	Bromochloromethane	1.60	U	1.60	6.80	ug/Kg
67-66-3	Chloroform	1.10	U	1.10	6.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.30	U	1.30	6.80	ug/Kg
108-87-2	Methylcyclohexane	1.20	U	1.20	6.80	ug/Kg
71-43-2	Benzene	1.10	U	1.10	6.80	ug/Kg
107-06-2	1,2-Dichloroethane	1.10	U	1.10	6.80	ug/Kg
79-01-6	Trichloroethene	1.10	U	1.10	6.80	ug/Kg
78-87-5	1,2-Dichloropropane	1.20	U	1.20	6.80	ug/Kg
75-27-4	Bromodichloromethane	1.10	U	1.10	6.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.90	U	4.90	34.2	ug/Kg
108-88-3	Toluene	1.10	U	1.10	6.80	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	4.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022912.D	1	07/02/25 15:09	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.89	U	0.89	6.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.85	U	0.85	6.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.30	U	1.30	6.80	ug/Kg
591-78-6	2-Hexanone	5.00	U	5.00	34.2	ug/Kg
124-48-1	Dibromochloromethane	1.20	U	1.20	6.80	ug/Kg
106-93-4	1,2-Dibromoethane	1.20	U	1.20	6.80	ug/Kg
127-18-4	Tetrachloroethene	1.40	U	1.40	6.80	ug/Kg
108-90-7	Chlorobenzene	1.20	U	1.20	6.80	ug/Kg
100-41-4	Ethyl Benzene	0.92	U	0.92	6.80	ug/Kg
179601-23-1	m/p-Xylenes	1.70	U	1.70	13.7	ug/Kg
95-47-6	o-Xylene	1.10	U	1.10	6.80	ug/Kg
100-42-5	Styrene	0.97	U	0.97	6.80	ug/Kg
75-25-2	Bromoform	1.20	U	1.20	6.80	ug/Kg
98-82-8	Isopropylbenzene	1.10	U	1.10	6.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.70	U	1.70	6.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.30	U	2.30	6.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.10	U	2.10	6.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.00	U	2.00	6.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.50	U	2.50	6.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.10	U	4.10	6.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.30	U	4.30	6.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.1		17 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	314000	7.707			
540-36-3	1,4-Difluorobenzene	603000	8.616			
3114-55-4	Chlorobenzene-d5	587000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	247000	13.346			



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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	4.08	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022912.D	1	07/02/25 15:09	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022912.D
Acq On : 02 Jul 2025 15:09
Operator : SY/MD
Sample : Q2458-04
Misc : 4.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-67

Quant Time: Jul 03 02:23:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	314085	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	602578	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	586720	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	246551	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	175665	50.111	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	100.220%
35) Dibromofluoromethane	7.634	113	187654	51.207	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.420%
50) Toluene-d8	10.109	98	725940	49.922	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.840%
62) 4-Bromofluorobenzene	12.401	95	253017	54.125	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	108.260%

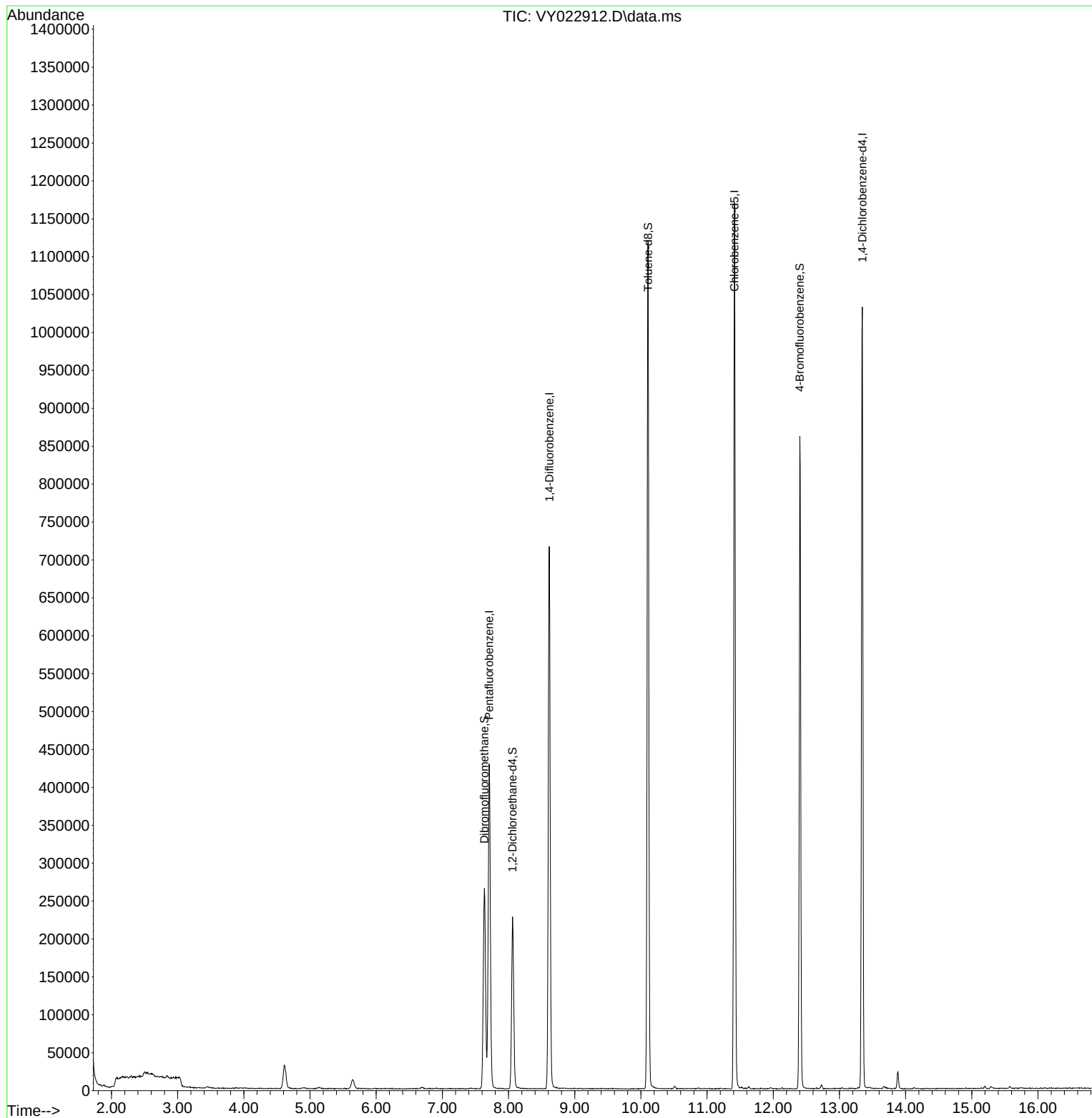
Target Compounds	Qvalue

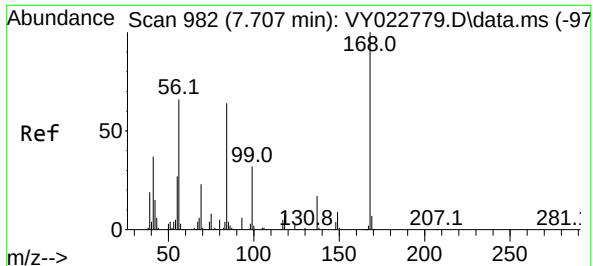
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022912.D
Acq On : 02 Jul 2025 15:09
Operator : SY/MD
Sample : Q2458-04
Misc : 4.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-67

Quant Time: Jul 03 02:23:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

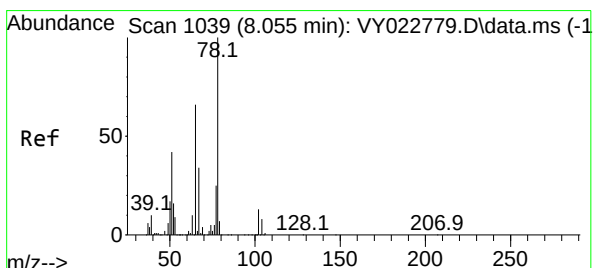
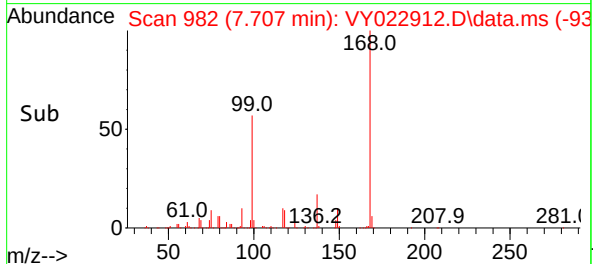
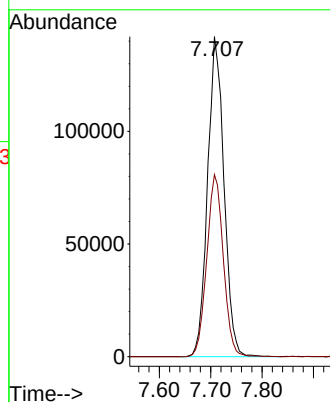
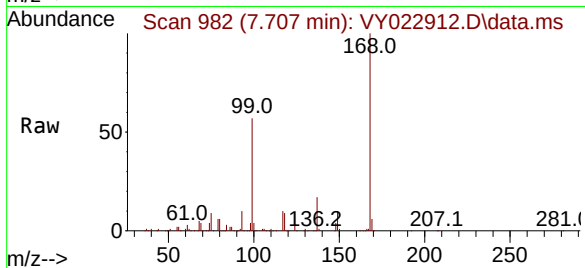




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022912.D
Acq: 02 Jul 2025 15:09

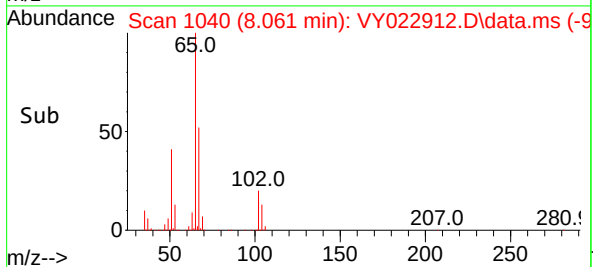
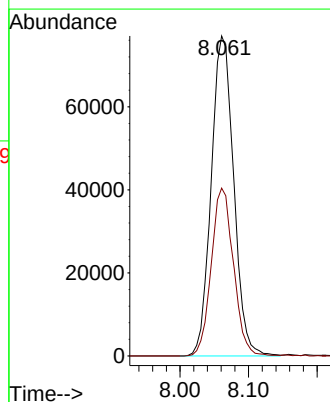
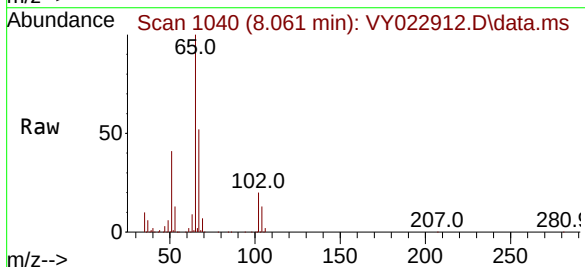
Instrument :
MSVOA_Y
ClientSampleId :
TP-67

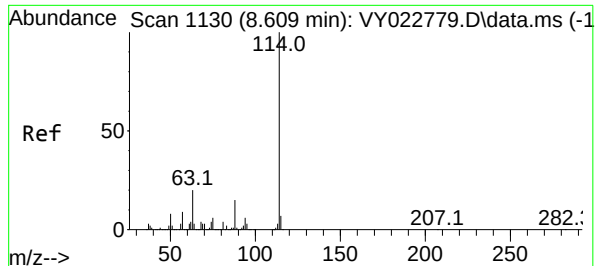
Tgt Ion:168 Resp: 314085
Ion Ratio Lower Upper
168 100
99 56.9 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 50.111 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022912.D
Acq: 02 Jul 2025 15:09

Tgt Ion: 65 Resp: 175665
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VY022912.D

Acq: 02 Jul 2025 15:09

Instrument :

MSVOA_Y

ClientSampleId :

TP-67

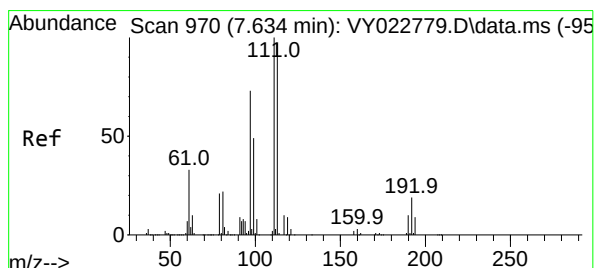
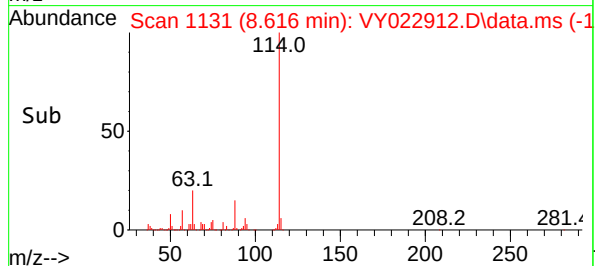
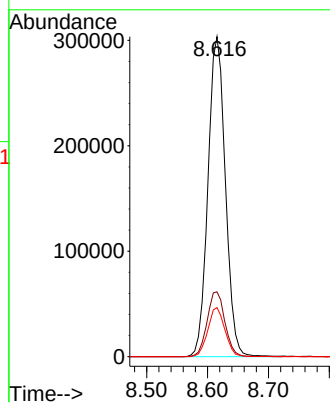
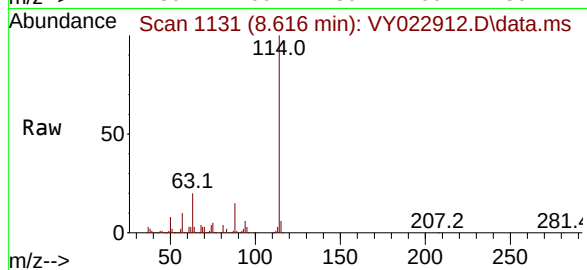
Tgt Ion:114 Resp: 602578

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

88 15.4 0.0 27.8



#35

Dibromofluoromethane

Concen: 51.207 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022912.D

Acq: 02 Jul 2025 15:09

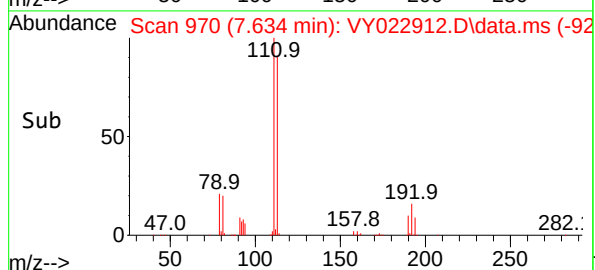
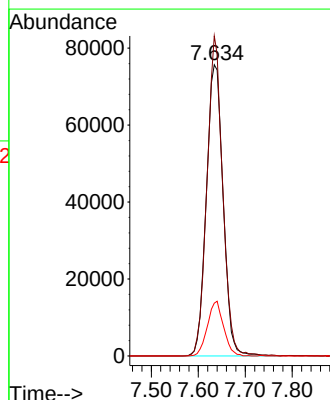
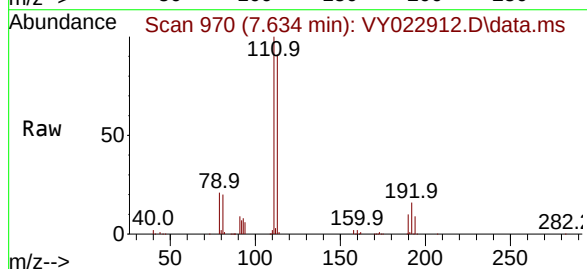
Tgt Ion:113 Resp: 187654

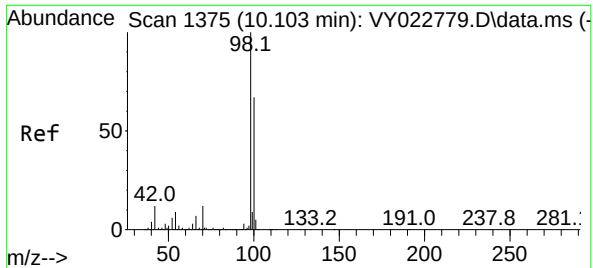
Ion Ratio Lower Upper

113 100

111 102.6 81.1 121.7

192 18.1 14.2 21.2





#50

Toluene-d8

Concen: 49.922 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. -0.000 min

Lab File: VY022912.D

Acq: 02 Jul 2025 15:09

Instrument :

MSVOA_Y

ClientSampleId :

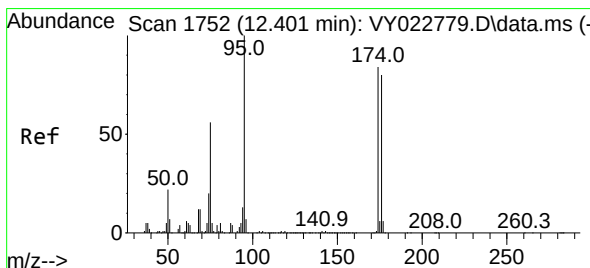
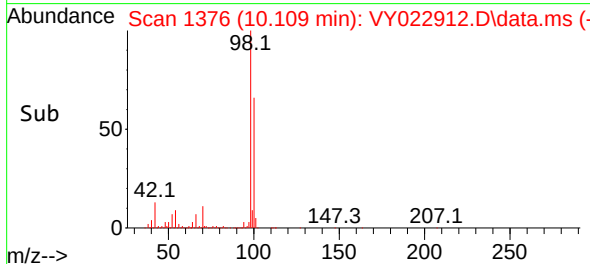
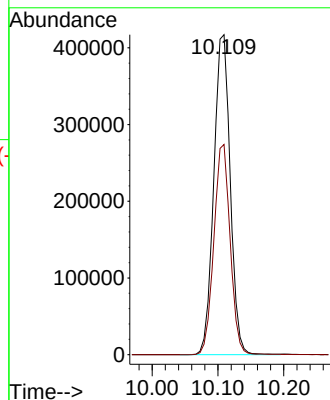
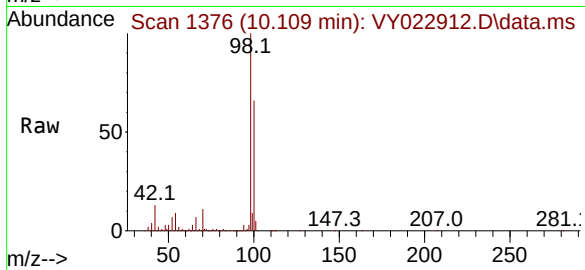
TP-67

Tgt Ion: 98 Resp: 725940

Ion Ratio Lower Upper

98 100

100 65.1 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 54.125 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022912.D

Acq: 02 Jul 2025 15:09

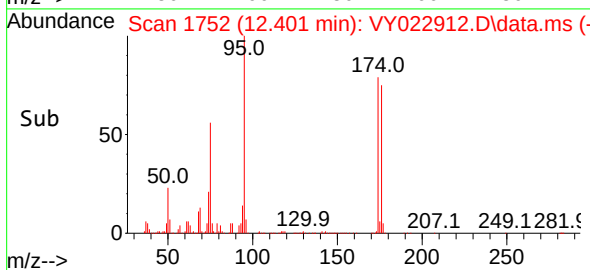
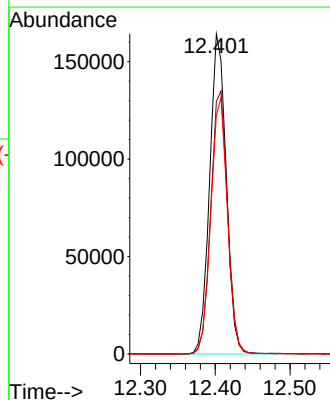
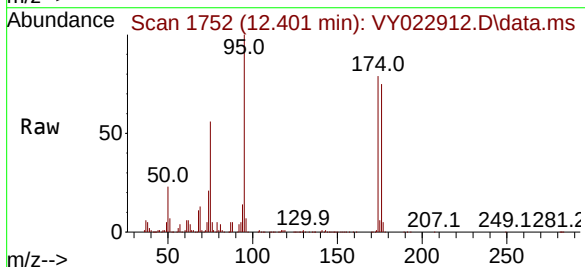
Tgt Ion: 95 Resp: 253017

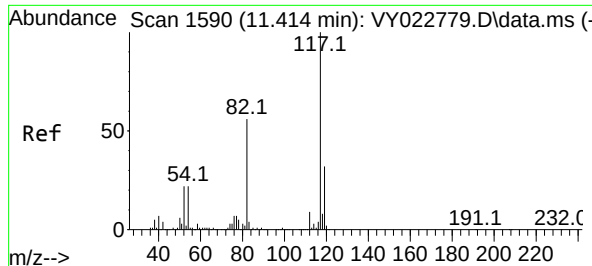
Ion Ratio Lower Upper

95 100

174 83.5 0.0 170.0

176 80.1 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022912.D

Acq: 02 Jul 2025 15:09

Instrument :

MSVOA_Y

ClientSampleId :

TP-67

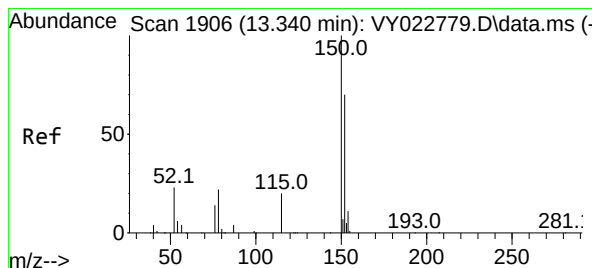
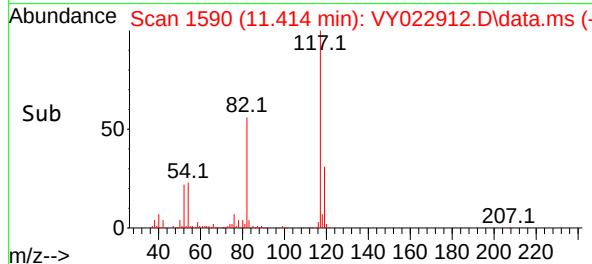
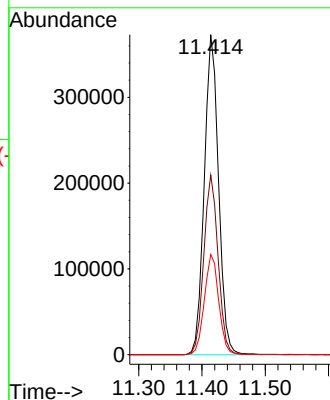
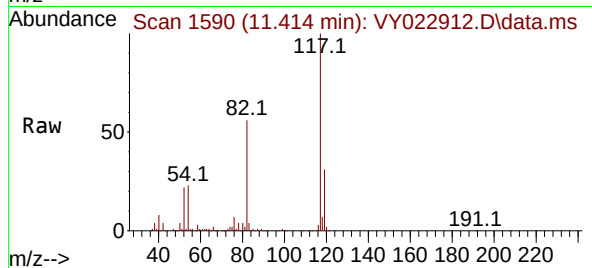
Tgt Ion:117 Resp: 586720

Ion Ratio Lower Upper

117 100

82 56.2 44.6 66.8

119 31.3 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022912.D

Acq: 02 Jul 2025 15:09

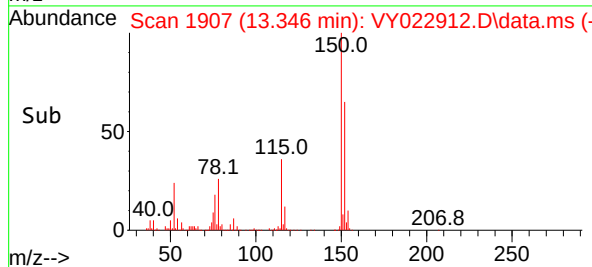
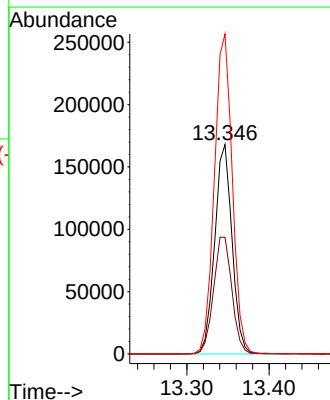
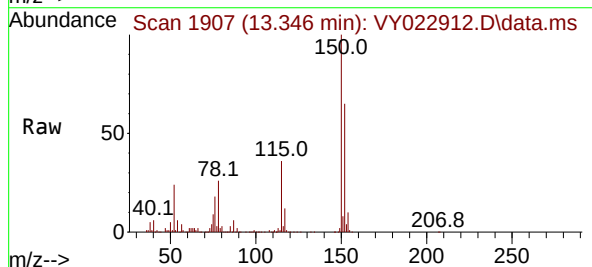
Tgt Ion:152 Resp: 246551

Ion Ratio Lower Upper

152 100

115 59.2 28.9 86.7

150 158.0 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022912.D
Acq On : 02 Jul 2025 15:09
Operator : SY/MD
Sample : Q2458-04
Misc : 4.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-67

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Title : SW846 8260

Signal : TIC: VY022912.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	51	59	60	rBV2	12036	24541	1.25%	0.234%
2	4.610	463	474	488	rBV3	31305	98751	5.03%	0.942%
3	5.647	633	644	656	rBV4	12143	39840	2.03%	0.380%
4	7.634	959	970	976	rBV	264501	631456	32.18%	6.025%
5	7.707	976	982	996	rVB	427252	955627	48.70%	9.119%
6	8.061	1031	1040	1052	rBV	226910	499488	25.45%	4.766%
7	8.616	1122	1131	1147	rBV	715400	1434913	73.12%	13.692%
8	10.109	1367	1376	1390	rBV	1119499	1962316	100.00%	18.725%
9	11.414	1582	1590	1602	rBV	1168986	1855680	94.57%	17.707%
10	12.401	1744	1752	1766	rBV	860682	1358735	69.24%	12.965%
11	13.346	1899	1907	1915	rBV	1030429	1581500	80.59%	15.091%
12	13.883	1989	1995	2005	rBV	22186	37055	1.89%	0.354%

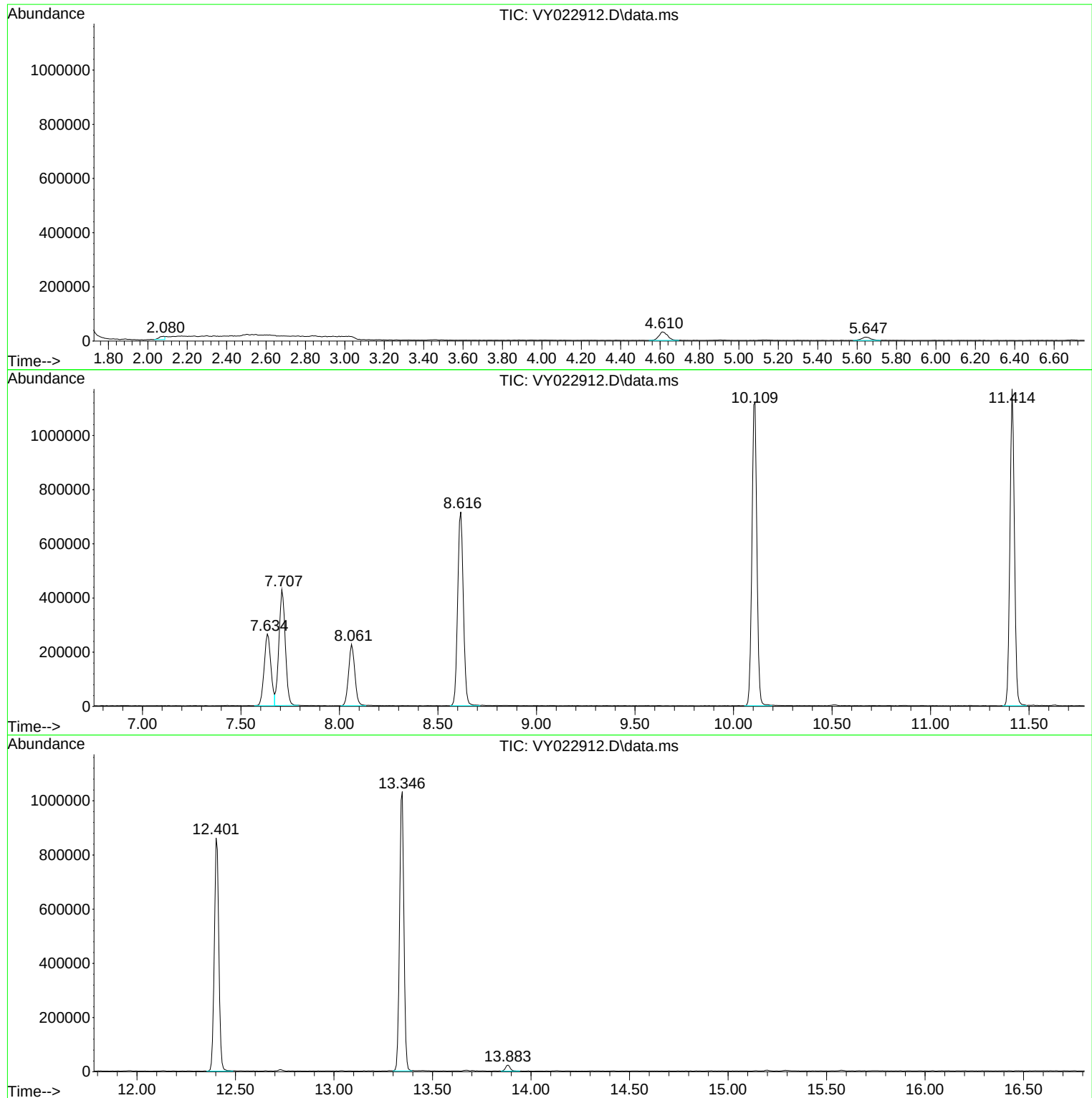
Sum of corrected areas: 10479902

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022912.D
Acq On : 02 Jul 2025 15:09
Operator : SY/MD
Sample : Q2458-04
Misc : 4.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-67

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022912.D
Acq On : 02 Jul 2025 15:09
Operator : SY/MD
Sample : Q2458-04
Misc : 4.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-67

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022912.D
Acq On : 02 Jul 2025 15:09
Operator : SY/MD
Sample : Q2458-04
Misc : 4.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-67

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.3
Sample Wt/Vol:	6.39 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022899.D	1	07/01/25 15:06	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.40	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.40	ug/Kg
75-01-4	Vinyl Chloride	0.70	U	0.70	4.40	ug/Kg
74-83-9	Bromomethane	0.95	U	0.95	4.40	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.94	U	0.94	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.89	U	0.89	4.40	ug/Kg
67-64-1	Acetone	4.20	U	4.20	22.2	ug/Kg
75-15-0	Carbon Disulfide	0.94	U	0.94	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.65	U	0.65	4.40	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.40	ug/Kg
75-09-2	Methylene Chloride	3.10	U	3.10	8.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.76	U	0.76	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.71	U	0.71	4.40	ug/Kg
110-82-7	Cyclohexane	0.70	U	0.70	4.40	ug/Kg
78-93-3	2-Butanone	5.80	U	5.80	22.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.86	U	0.86	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.66	U	0.66	4.40	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.40	ug/Kg
67-66-3	Chloroform	0.74	U	0.74	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.82	U	0.82	4.40	ug/Kg
108-87-2	Methylcyclohexane	2.30	J	0.81	4.40	ug/Kg
71-43-2	Benzene	0.70	U	0.70	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.70	U	0.70	4.40	ug/Kg
79-01-6	Trichloroethene	0.72	U	0.72	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.81	U	0.81	4.40	ug/Kg
75-27-4	Bromodichloromethane	0.69	U	0.69	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.2	ug/Kg
108-88-3	Toluene	0.69	U	0.69	4.40	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.3
Sample Wt/Vol:	6.39	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :	ID : 0.25		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022899.D	1	07/01/25 15:06	VY070125

[illegible]

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.3
Sample Wt/Vol:	6.39 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022899.D	1	07/01/25 15:06	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000584-94-1	Hexane, 2,3-dimethyl-	12.1	J		9.69	ug/Kg
001003-03-8	Cyclopentanamine	19.2	J		9.87	ug/Kg
000619-99-8	Hexane, 3-ethyl-	21.3	J		9.92	ug/Kg
002216-30-0	Heptane, 2,5-dimethyl-	11.0	J		10.8	ug/Kg
000493-02-7	Naphthalene, decahydro-, trans-	12.3	J		13.7	ug/Kg
110028-10-9	6,7-Dimethyl-3,5,8,8a-tetrahydro-1	14.0	J		14.0	ug/Kg
	unknown14.182	8.40	J		14.2	ug/Kg
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	12.6	J		14.6	ug/Kg
004912-92-9	1H-Indene, 2,3-dihydro-1,1-dimethy	9.70	J		15.0	ug/Kg
002051-30-1	Octane, 2,6-dimethyl-	9.20	J		15.1	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022899.D
 Acq On : 01 Jul 2025 15:06
 Operator : SY/MD
 Sample : Q2458-05
 Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-66

Quant Time: Jul 02 02:47:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

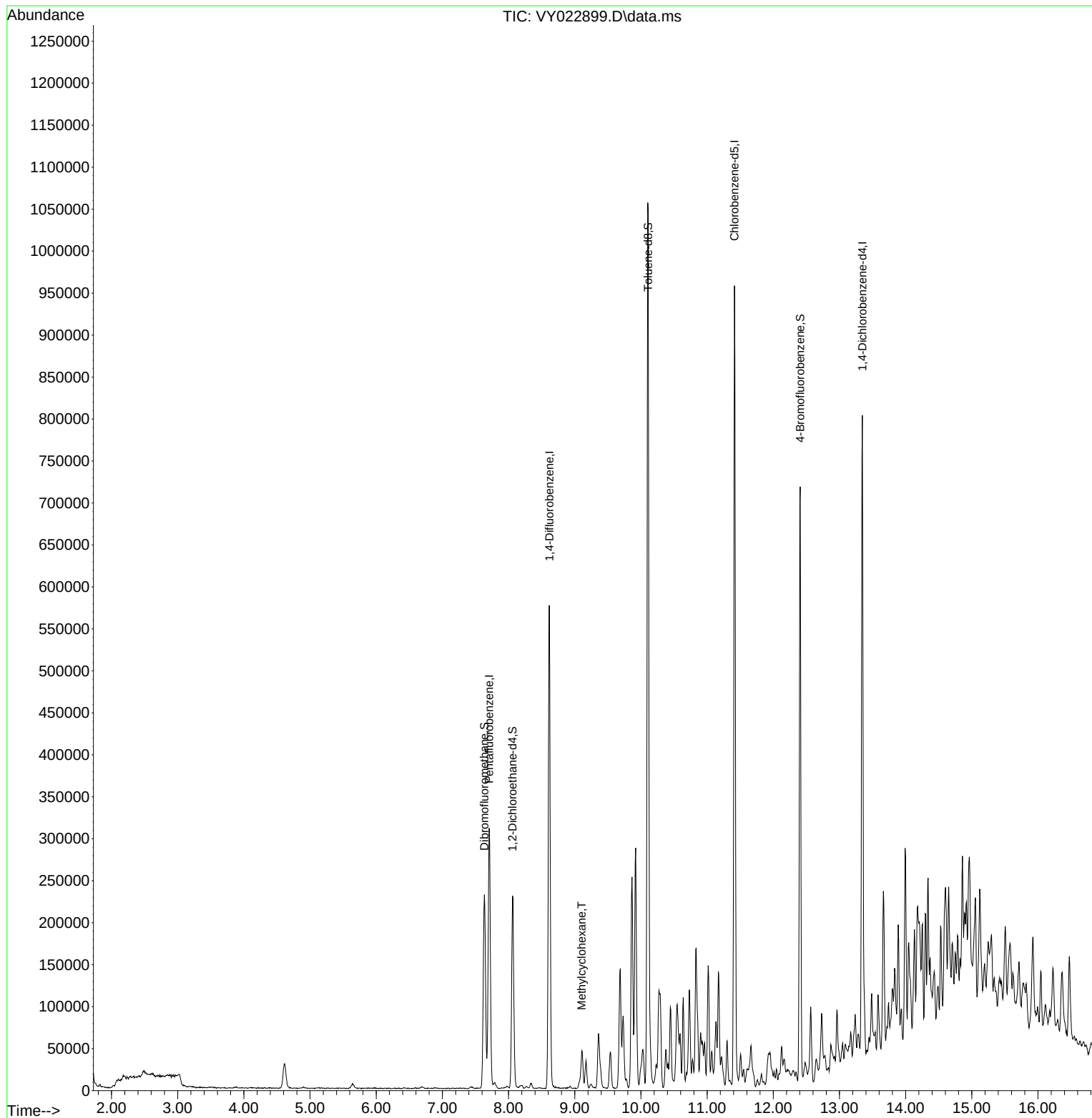
Internal Standards						
1) Pentafluorobenzene	7.707	168	227063	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	478916	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	482244	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	188370	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	180787	71.337	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 142.680%	
35) Dibromofluoromethane	7.634	113	167403	57.477	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 114.960%	
50) Toluene-d8	10.109	98	596552	51.617	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.240%	
62) 4-Bromofluorobenzene	12.407	95	205251	55.244	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 110.480%	
Target Compounds						Qvalue
39) Methylcyclohexane	9.103	83	14897	2.608	ug/l	98

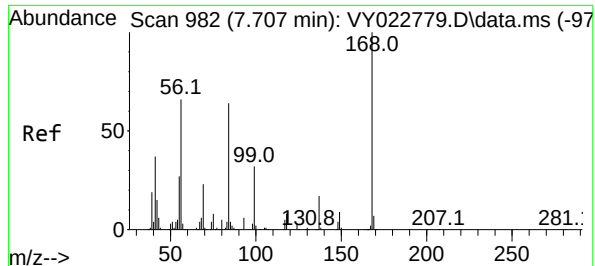
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

Quant Time: Jul 02 02:47:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

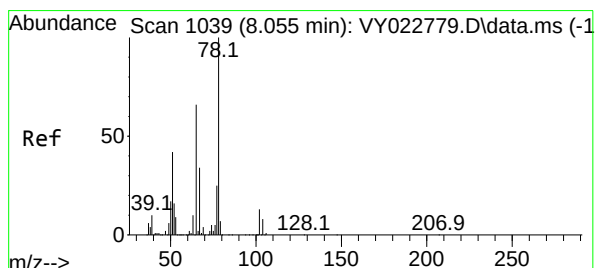
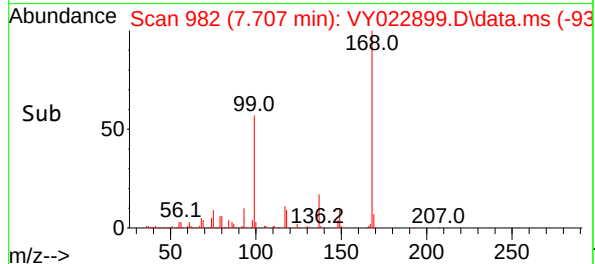
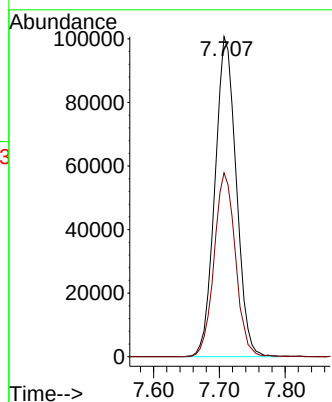
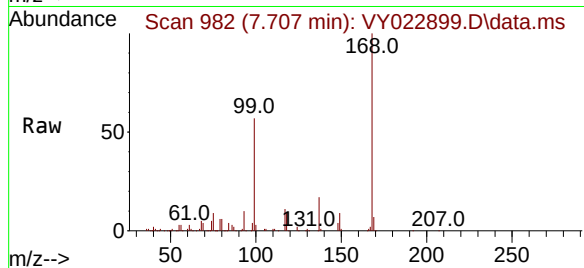




#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.707 min Scan# 91
 Delta R.T. -0.006 min
 Lab File: VY022899.D
 Acq: 01 Jul 2025 15:06

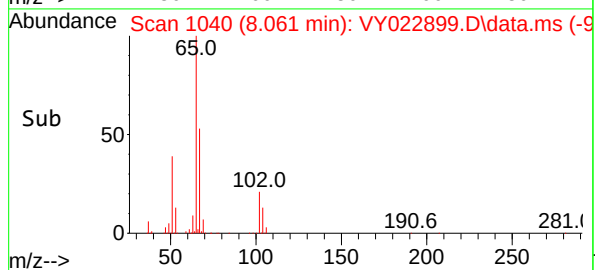
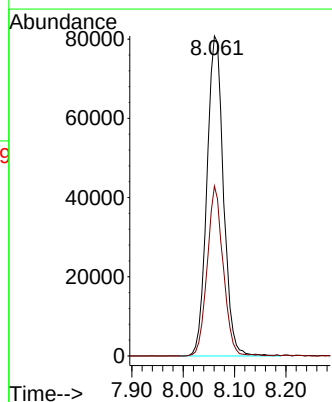
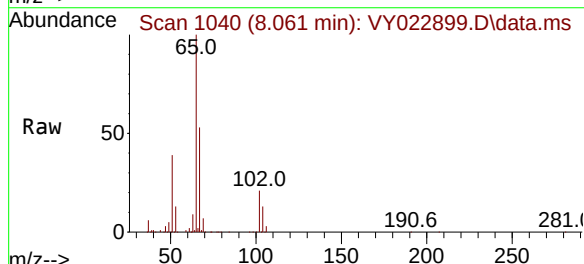
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-66

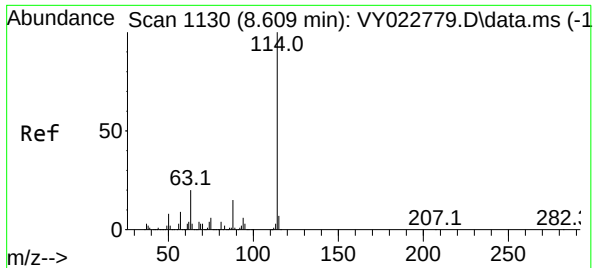
Tgt Ion:168 Resp: 227063
 Ion Ratio Lower Upper
 168 100
 99 57.5 44.3 66.5



#33
 1,2-Dichloroethane-d4
 Concen: 71.337 ug/l
 RT: 8.061 min Scan# 1040
 Delta R.T. -0.006 min
 Lab File: VY022899.D
 Acq: 01 Jul 2025 15:06

Tgt Ion: 65 Resp: 180787
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VY022899.D

Acq: 01 Jul 2025 15:06

Instrument :

MSVOA_Y

ClientSampleId :

TP-66

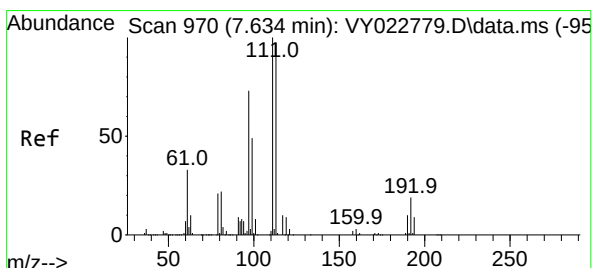
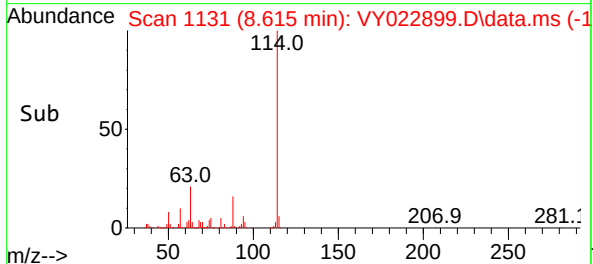
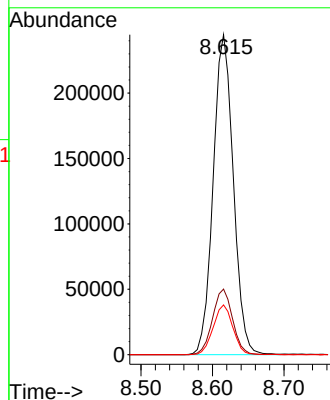
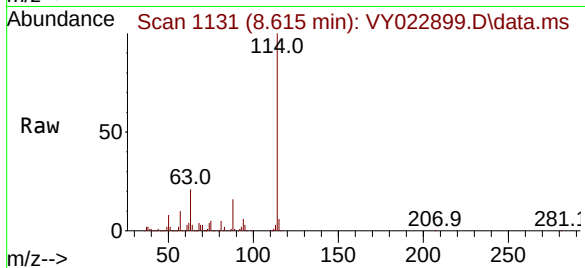
Tgt Ion:114 Resp: 478916

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

88 15.5 0.0 27.8



#35

Dibromofluoromethane

Concen: 57.477 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022899.D

Acq: 01 Jul 2025 15:06

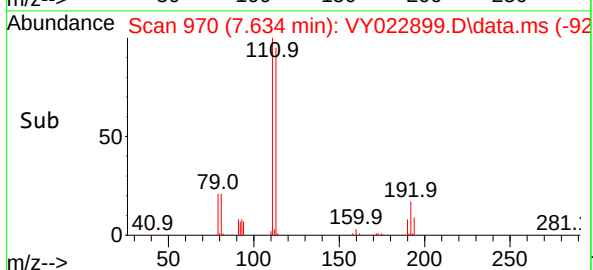
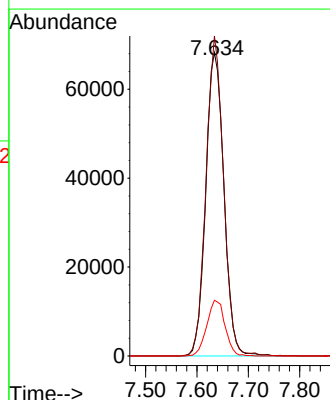
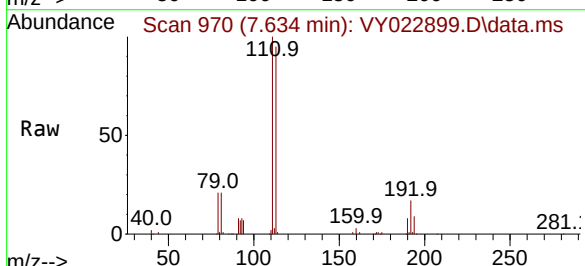
Tgt Ion:113 Resp: 167403

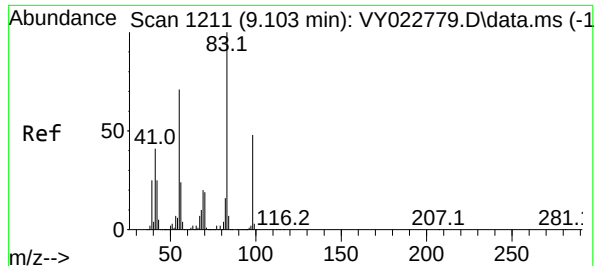
Ion Ratio Lower Upper

113 100

111 102.0 81.1 121.7

192 18.5 14.2 21.2





#39

Methylcyclohexane

Concen: 2.608 ug/l

RT: 9.103 min Scan# 1211

Delta R.T. -0.013 min

Lab File: VY022899.D

Acq: 01 Jul 2025 15:06

Instrument :

MSVOA_Y

ClientSampleId :

TP-66

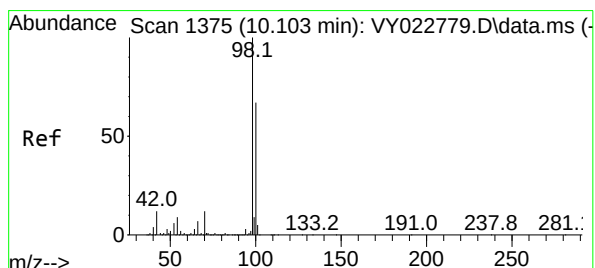
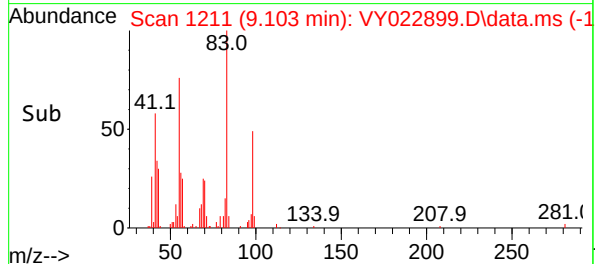
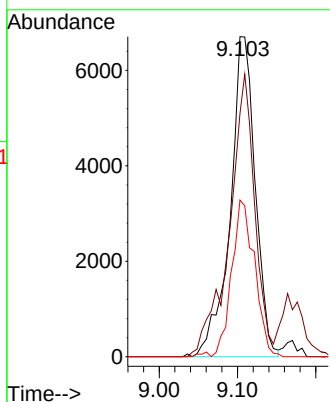
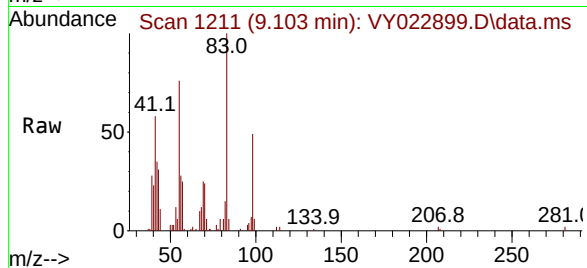
Tgt Ion: 83 Resp: 14897

Ion Ratio Lower Upper

83 100

55 76.0 58.1 87.1

98 49.0 39.0 58.6



#50

Toluene-d8

Concen: 51.617 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY022899.D

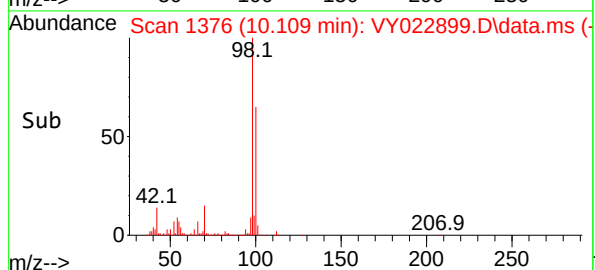
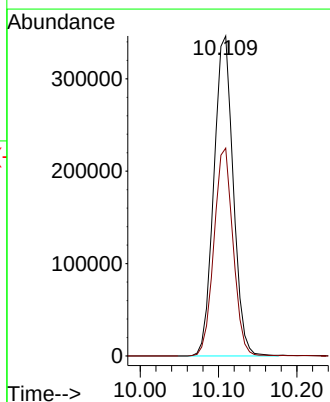
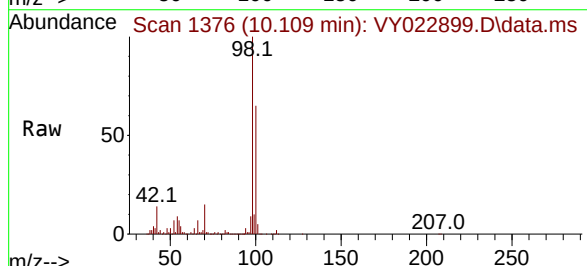
Acq: 01 Jul 2025 15:06

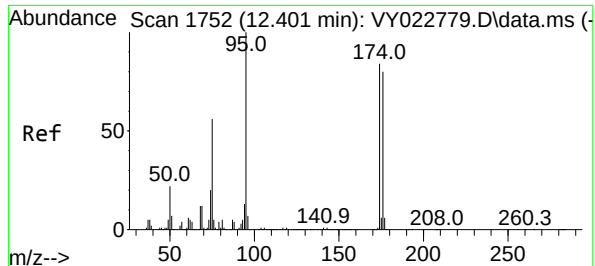
Tgt Ion: 98 Resp: 596552

Ion Ratio Lower Upper

98 100

100 64.1 51.4 77.0

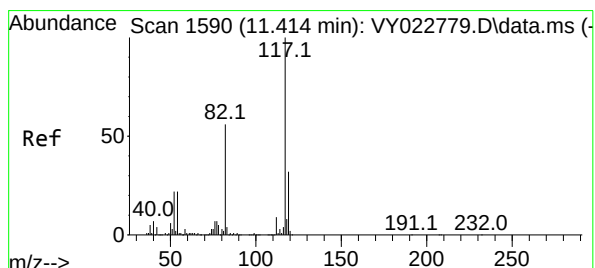
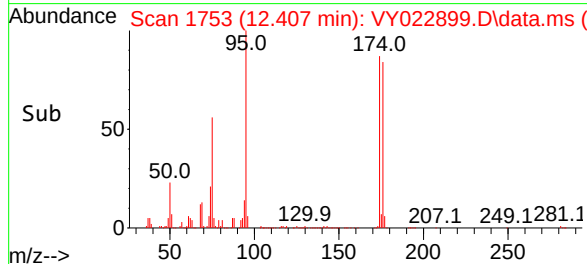
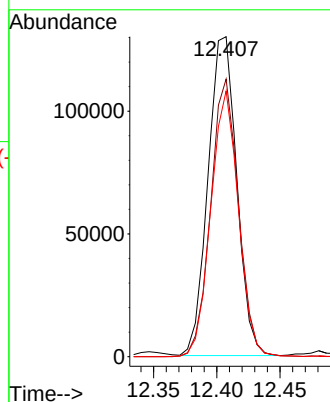
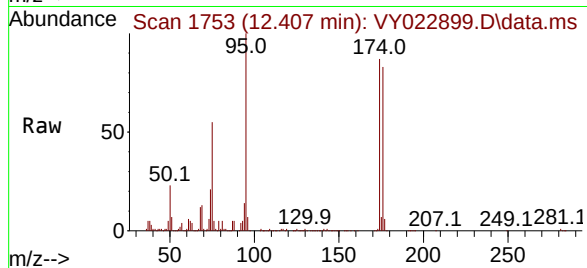




#62
4-Bromofluorobenzene
Concen: 55.244 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

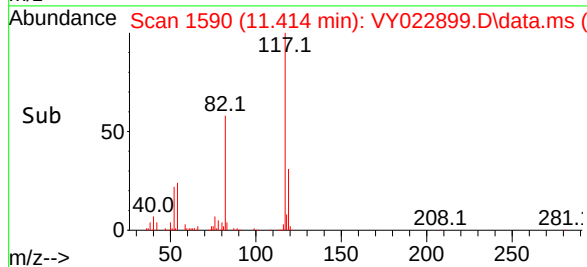
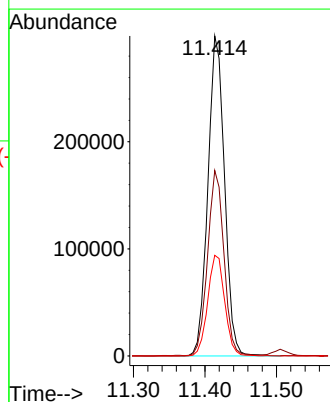
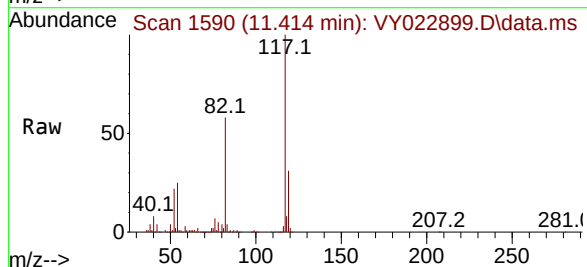
Instrument :
MSVOA_Y
ClientSampleId :
TP-66

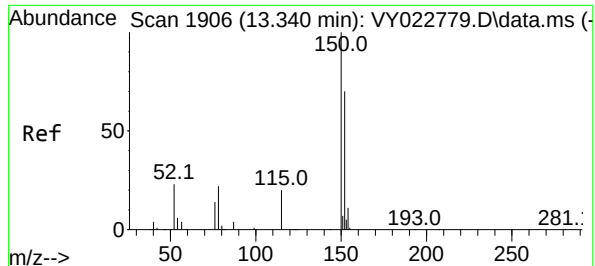
Tgt Ion: 95 Resp: 205251
Ion Ratio Lower Upper
95 100
174 83.9 0.0 170.0
176 80.1 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022899.D
Acq: 01 Jul 2025 15:06

Tgt Ion: 117 Resp: 482244
Ion Ratio Lower Upper
117 100
82 57.7 44.6 66.8
119 31.5 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022899.D

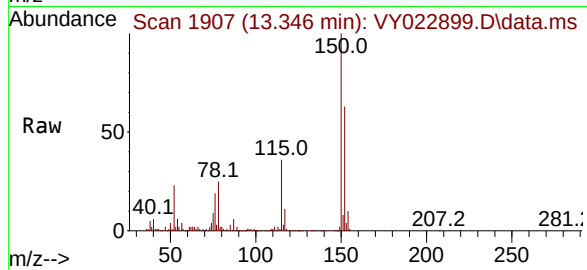
Acq: 01 Jul 2025 15:06

Instrument :

MSVOA_Y

ClientSampleId :

TP-66



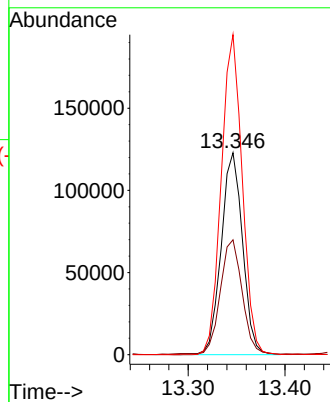
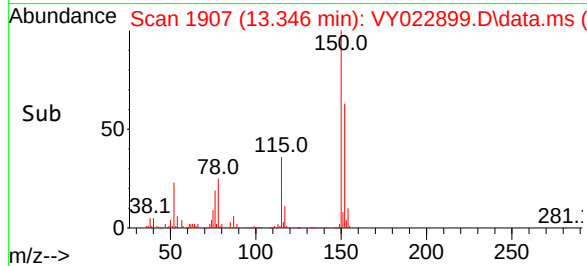
Tgt Ion:152 Resp: 188370

Ion Ratio Lower Upper

152 100

115 58.8 28.9 86.7

150 155.2 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022899.D
 Acq On : 01 Jul 2025 15:06
 Operator : SY/MD
 Sample : Q2458-05
 Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-66

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Title : SW846 8260

Signal : TIC: VY022899.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	463	475	487	rBV3	29325	94562	4.93%	0.466%
2	7.634	960	970	976	rBV	230313	557565	29.08%	2.745%
3	7.707	976	982	991	rVV	309832	709417	37.01%	3.493%
4	8.061	1032	1040	1053	rBV	229013	506572	26.42%	2.494%
5	8.615	1122	1131	1141	rBV	575607	1133631	59.13%	5.582%
6	9.109	1198	1212	1217	rBV3	44771	111569	5.82%	0.549%
7	9.170	1217	1222	1229	rVB2	32814	61923	3.23%	0.305%
8	9.359	1246	1253	1267	rBV2	65160	164076	8.56%	0.808%
9	9.536	1273	1282	1291	rBV4	43352	95743	4.99%	0.471%
10	9.688	1294	1307	1311	rBV	142908	310702	16.21%	1.530%
11	9.731	1311	1314	1320	rVB2	76477	128595	6.71%	0.633%
12	9.865	1327	1336	1340	rBV	250876	490761	25.60%	2.416%
13	9.920	1340	1345	1353	rVB	282097	545420	28.45%	2.686%
14	10.030	1353	1363	1368	rBV5	41985	120886	6.31%	0.595%
15	10.103	1368	1375	1389	rVB	1048986	1917042	100.00%	9.439%
16	10.231	1389	1396	1398	rBV4	22477	40400	2.11%	0.199%
17	10.274	1398	1403	1405	rBV2	92311	163469	8.53%	0.805%
18	10.377	1413	1420	1423	rBV	45651	84518	4.41%	0.416%
19	10.444	1427	1431	1440	rVV	94973	182235	9.51%	0.897%
20	10.548	1440	1448	1453	rVV5	97302	271973	14.19%	1.339%
21	10.591	1453	1455	1459	rVV2	62466	90937	4.74%	0.448%
22	10.639	1459	1463	1468	rVV	105346	168123	8.77%	0.828%
23	10.731	1472	1478	1483	rVV2	113640	225608	11.77%	1.111%
24	10.780	1483	1486	1489	rVV2	30261	50616	2.64%	0.249%
25	10.835	1489	1495	1502	rVV	162001	385300	20.10%	1.897%
26	10.902	1502	1506	1509	rVV	61207	114929	6.00%	0.566%
27	10.963	1513	1516	1520	rVV2	48656	79364	4.14%	0.391%
28	11.017	1520	1525	1530	rVV2	140174	258155	13.47%	1.271%
29	11.072	1530	1534	1538	rVV2	37717	70122	3.66%	0.345%
30	11.133	1538	1544	1547	rVV4	72514	149627	7.81%	0.737%
31	11.170	1547	1550	1555	rVV	131887	227514	11.87%	1.120%
32	11.219	1555	1558	1566	rVB4	33490	73523	3.84%	0.362%
33	11.304	1566	1572	1577	rBV	52422	87744	4.58%	0.432%
34	11.414	1583	1590	1600	rBV	951390	1551422	80.93%	7.639%
35	11.505	1600	1605	1609	rVV4	35390	67145	3.50%	0.331%
36	11.554	1609	1613	1616	rVV5	16929	26312	1.37%	0.130%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Title : SW846 8260

37	11.603	1616	1621	1625	rVV7	17438	43000	2.24%	0.212%
38	11.664	1625	1631	1642	rVB5	48761	144909	7.56%	0.713%
39	11.822	1651	1657	1661	rBV2	13191	22287	1.16%	0.110%
40	11.926	1666	1674	1677	rBV6	37336	92374	4.82%	0.455%
41	12.127	1702	1707	1710	rVV3	33351	56443	2.94%	0.278%
42	12.164	1710	1713	1717	rVB3	15757	28696	1.50%	0.141%
43	12.407	1747	1753	1759	rBV	707574	1113799	58.10%	5.484%
44	12.481	1760	1765	1771	rBV5	16554	36887	1.92%	0.182%
45	12.566	1771	1779	1786	rVB2	89253	171369	8.94%	0.844%
46	12.651	1786	1793	1798	rBV6	27188	72830	3.80%	0.359%
47	12.731	1799	1806	1811	rBV4	66323	131621	6.87%	0.648%
48	12.871	1825	1829	1836	rBV3	31884	83696	4.37%	0.412%
49	12.962	1840	1844	1852	rVV5	67026	121323	6.33%	0.597%
50	13.048	1853	1858	1861	rVV7	22303	35565	1.86%	0.175%
51	13.090	1861	1865	1871	rVV6	18089	44028	2.30%	0.217%
52	13.169	1875	1878	1882	rVB3	29308	40024	2.09%	0.197%
53	13.237	1882	1889	1893	rBV5	49832	104332	5.44%	0.514%
54	13.285	1893	1897	1901	rVB5	17529	30471	1.59%	0.150%
55	13.346	1901	1907	1916	rVB	760279	1250492	65.23%	6.157%
56	13.450	1920	1924	1925	rBV	17214	21445	1.12%	0.106%
57	13.486	1926	1930	1936	rBV4	56322	86598	4.52%	0.426%
58	13.584	1942	1946	1953	rBV2	64997	110461	5.76%	0.544%
59	13.663	1953	1959	1965	rBV3	187758	348238	18.17%	1.715%
60	13.718	1965	1968	1969	rBV2	16545	19275	1.01%	0.095%
61	13.743	1969	1972	1975	rBV	30136	31473	1.64%	0.155%
62	13.797	1978	1981	1984	rBV3	35564	55425	2.89%	0.273%
63	13.834	1984	1987	1992	rVB6	54859	75851	3.96%	0.373%
64	13.889	1992	1996	2000	rVB2	119155	170777	8.91%	0.841%
65	13.932	2001	2003	2008	rVB5	35997	46020	2.40%	0.227%
66	13.992	2008	2013	2018	rBV2	227831	394176	20.56%	1.941%
67	14.047	2018	2022	2030	rVB4	102747	237265	12.38%	1.168%
68	14.133	2030	2036	2039	rBV	118174	205363	10.71%	1.011%
69	14.181	2039	2044	2047	rBV3	113543	237744	12.40%	1.171%
70	14.255	2052	2056	2059	rVB	112081	172455	9.00%	0.849%
71	14.297	2059	2063	2066	rBV2	124907	177302	9.25%	0.873%
72	14.340	2066	2070	2073	rBV2	127166	164723	8.59%	0.811%
73	14.486	2090	2094	2098	rBV5	37648	71195	3.71%	0.351%
74	14.529	2098	2101	2106	rBV3	100381	141167	7.36%	0.695%
75	14.602	2106	2113	2117	rBV5	141455	356504	18.60%	1.755%
76	14.651	2117	2121	2127	rVB5	113430	188908	9.85%	0.930%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022899.D
 Acq On : 01 Jul 2025 15:06
 Operator : SY/MD
 Sample : Q2458-05
 Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-66

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Title : SW846 8260

77	14.706	2127	2130	2134	rVB2	49182	71086	3.71%	0.350%
78	14.748	2135	2137	2140	rBV2	29800	33392	1.74%	0.164%
79	14.785	2140	2143	2147	rVB4	53933	71354	3.72%	0.351%
80	14.822	2147	2149	2151	rBV3	27278	28665	1.50%	0.141%
81	14.858	2151	2155	2158	rBV4	131338	184000	9.60%	0.906%
82	14.962	2167	2172	2180	rVB3	129448	274805	14.33%	1.353%
83	15.120	2192	2198	2205	rBV5	125081	259010	13.51%	1.275%
84	15.504	2256	2261	2266	rBV6	83029	144980	7.56%	0.714%
85	15.578	2266	2273	2278	rBV5	59787	154739	8.07%	0.762%
86	15.925	2324	2330	2337	rVB2	93082	186929	9.75%	0.920%
87	16.041	2345	2349	2354	rVB	64530	100797	5.26%	0.496%
88	16.224	2375	2379	2386	rVB5	67789	135443	7.07%	0.667%
89	16.364	2396	2402	2415	rVB8	75697	211550	11.04%	1.042%
90	16.474	2415	2420	2429	rVB	98696	199024	10.38%	0.980%

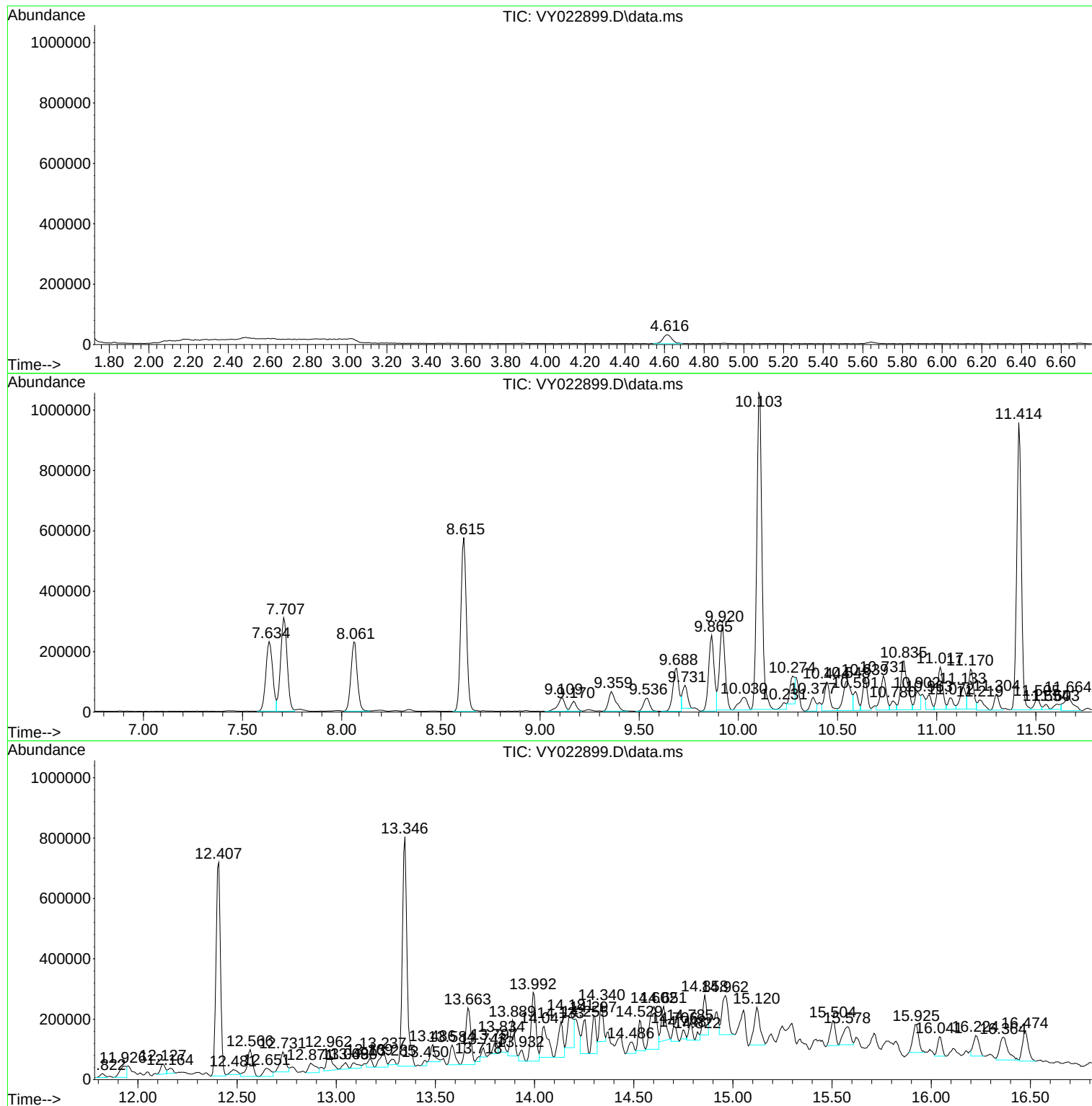
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

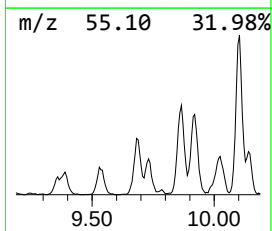
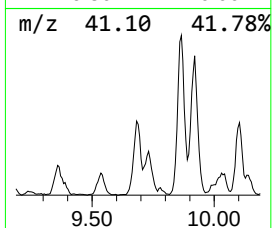
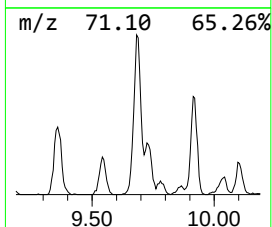
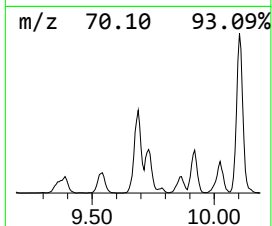
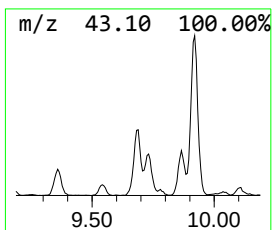
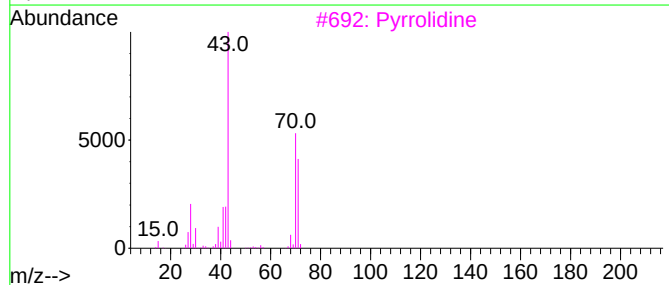
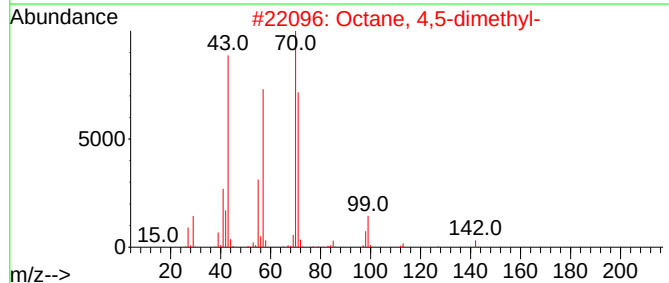
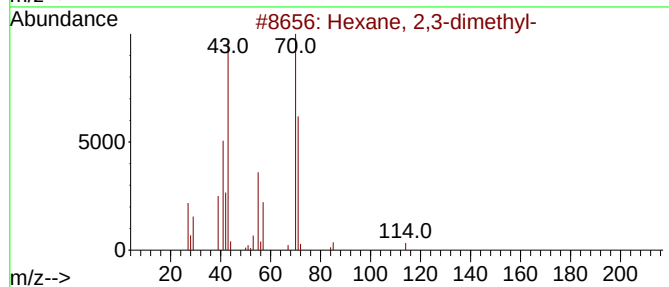
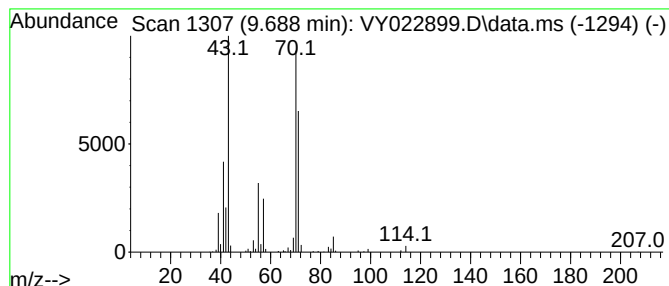
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

Peak Number 1 Hexane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.688	13.70 ug/l	310702	1,4-Difluorobenzene	8.615

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	91
2			Octane, 4,5-dimethyl-	142	C10H22	015869-96-2	83
3			Pyrrolidine	71	C4H9N	000123-75-1	78
4			Pentane, 3-ethyl-2-methyl-	114	C8H18	000609-26-7	72
5			Heptane, 4-methyl-	114	C8H18	000589-53-7	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

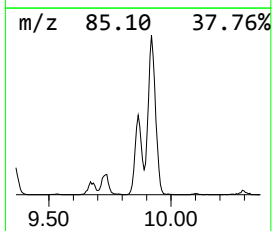
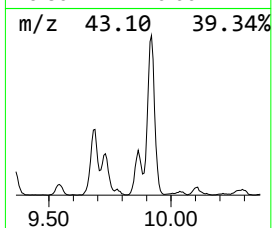
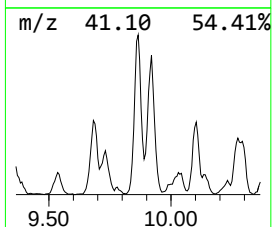
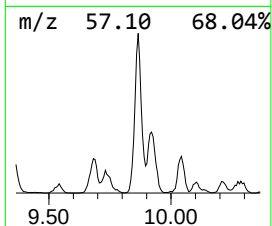
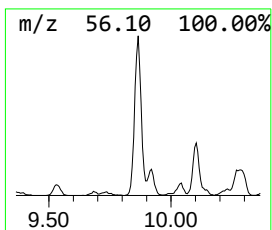
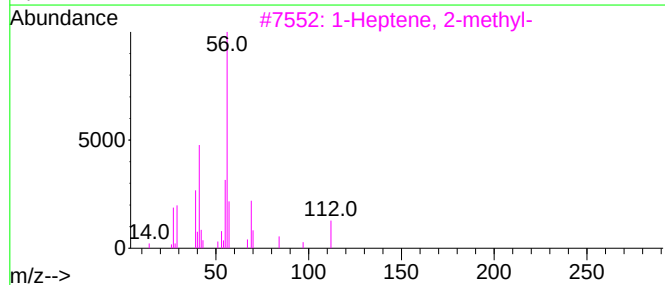
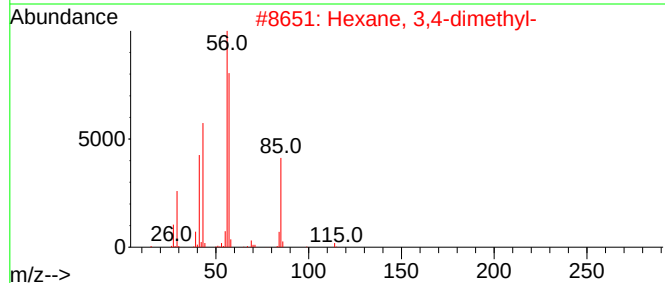
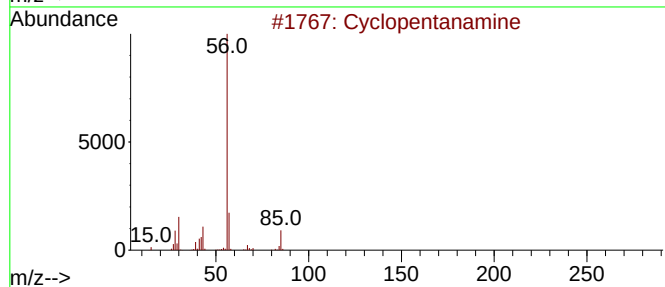
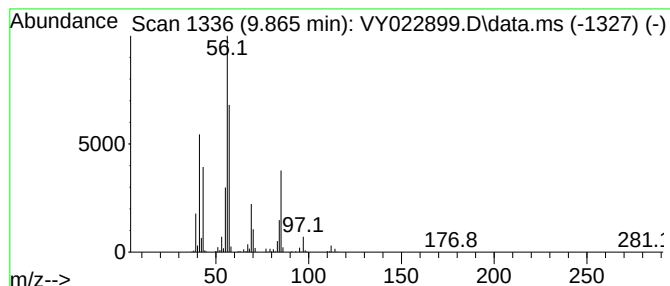
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

Peak Number 2 Cyclopentanamine Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.865	21.65 ug/l	490761	1,4-Difluorobenzene	8.615

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentanamine	85	C5H11N	001003-03-8	72
2			Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	72
3			1-Heptene, 2-methyl-	112	C8H16	015870-10-7	59
4			2,4-Dimethyl-1-hexene	112	C8H16	016746-87-5	58
5			Hexyl alcohol, chlorodifluoroace...	214	C8H13ClF2O2	1000447-24-1	56



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

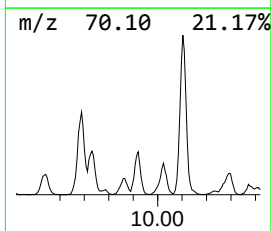
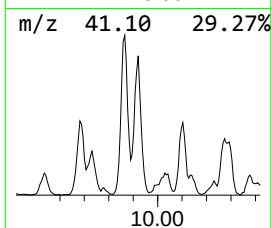
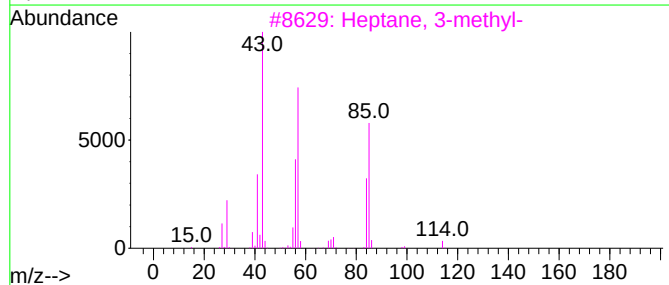
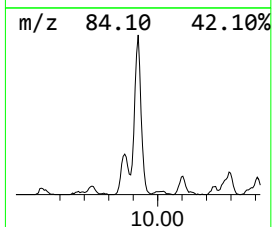
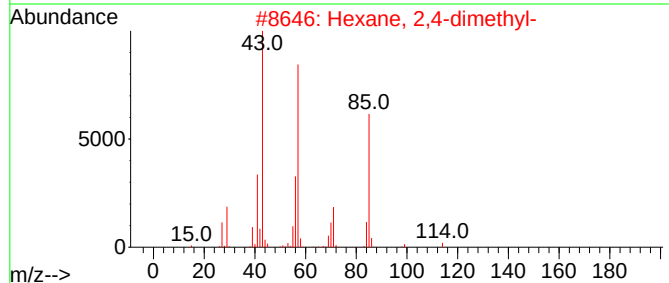
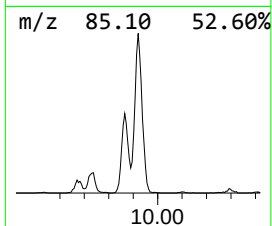
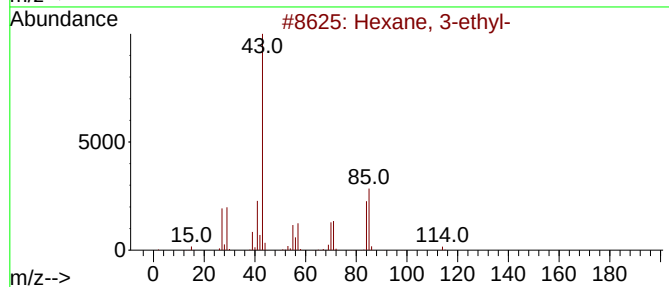
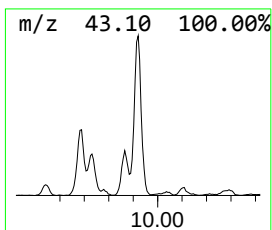
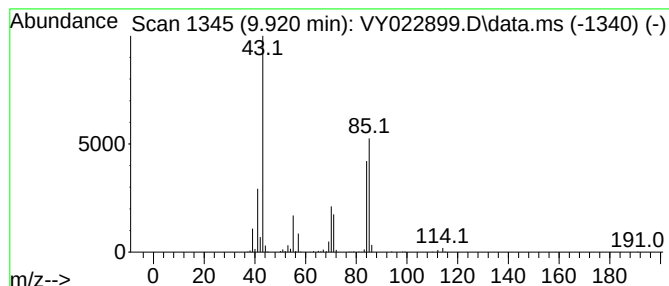
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

Peak Number 3 Hexane, 3-ethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.920	24.06 ug/l	545420	1,4-Difluorobenzene	8.615

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 3-ethyl-	114	C8H18	000619-99-8	91
2			Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	52
3			Heptane, 3-methyl-	114	C8H18	000589-81-1	50
4			Nonane, 5-methyl-	142	C10H22	015869-85-9	45
5			Heptane, 3,4,5-trimethyl-	142	C10H22	020278-89-1	40



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

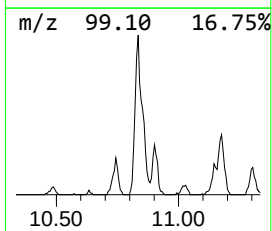
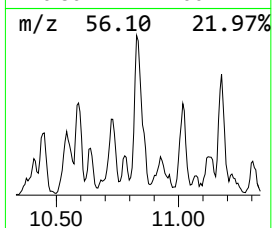
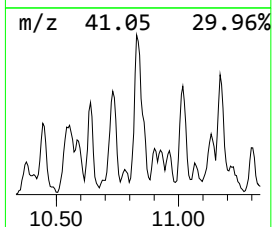
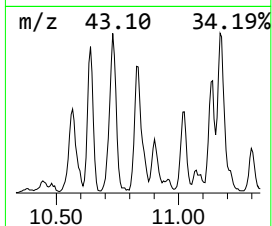
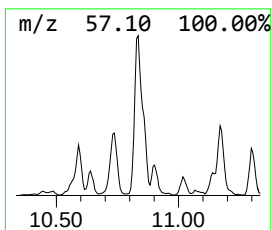
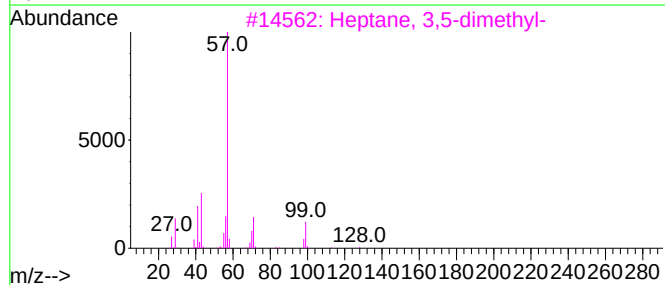
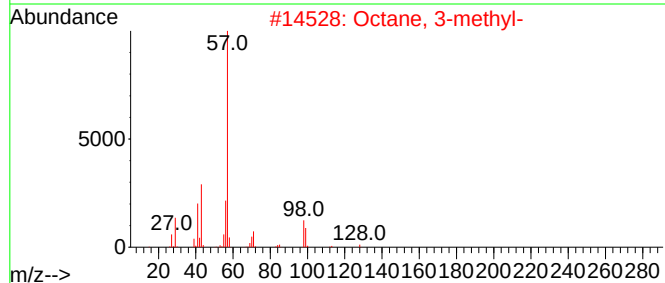
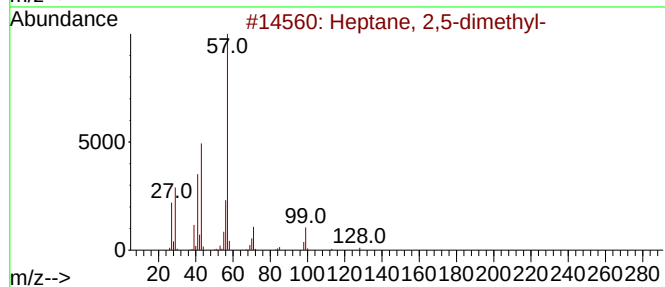
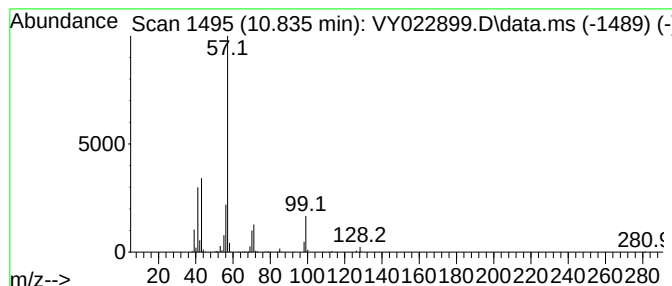
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

Peak Number 4 Heptane, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.835	12.42 ug/l	385300	Chlorobenzene-d5	11.414

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	91
2			Octane, 3-methyl-	128	C9H20	002216-33-3	90
3			Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	81
4			Heptane, 2,3,6-trimethyl-	142	C10H22	004032-93-3	47
5			1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	45



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

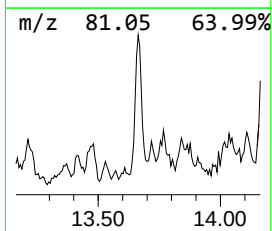
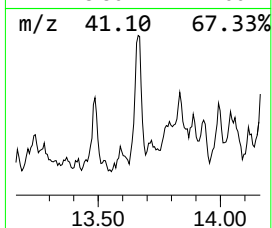
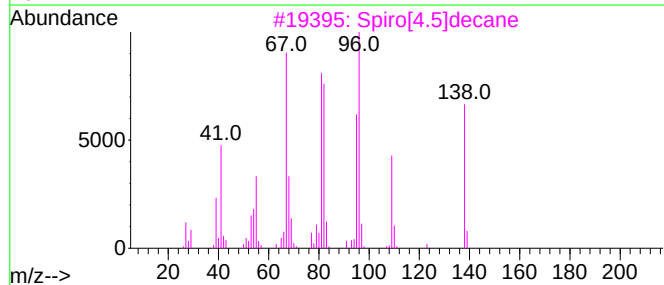
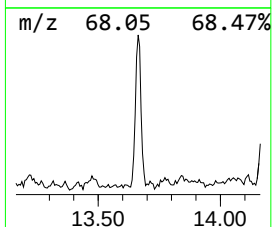
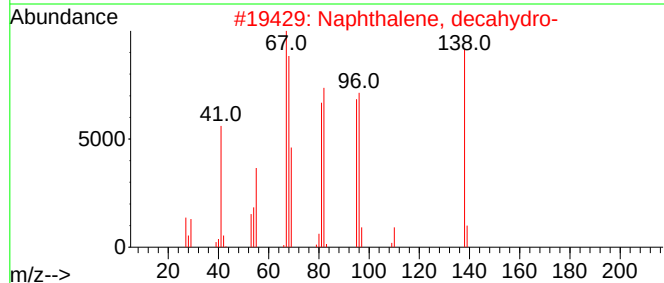
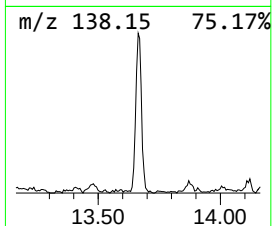
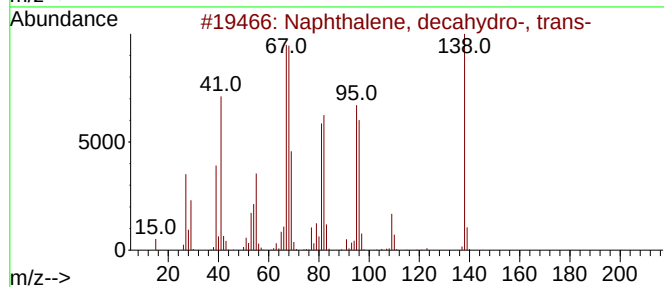
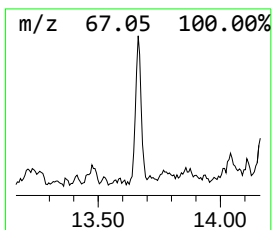
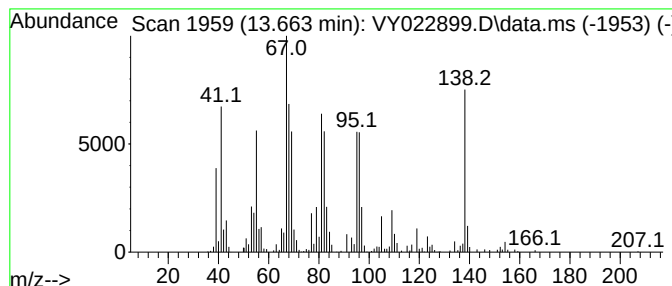
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Quant Title : SW846 8260

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

Peak Number 5 Naphthalene, decahydro-, tr... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.663	13.92 ug/l	348238	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	96
2			Naphthalene, decahydro-	138	C10H18	000091-17-8	95
3			Spiro[4.5]decane	138	C10H18	000176-63-6	81
4			Naphthalene, decahydro-, cis-	138	C10H18	000493-01-6	81
5			1,1'-Bicyclopentyl	138	C10H18	001636-39-1	76



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

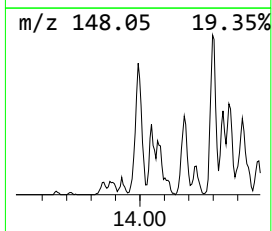
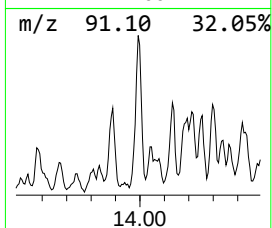
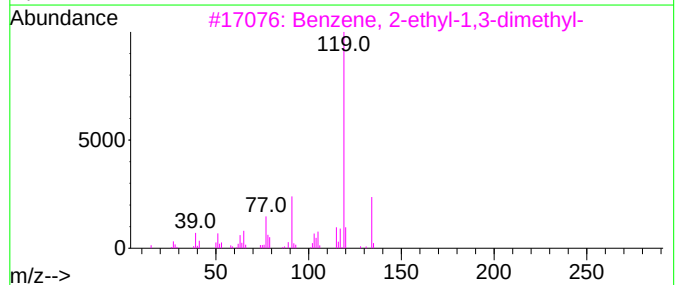
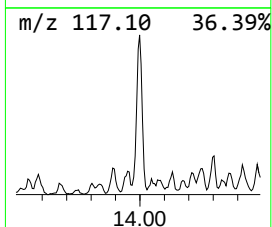
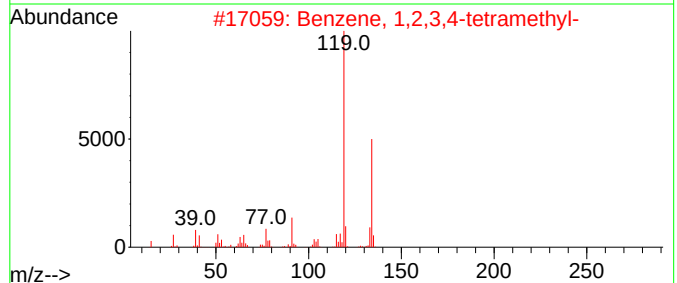
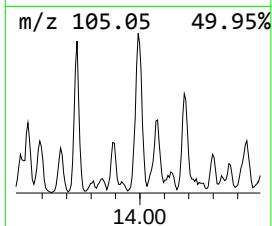
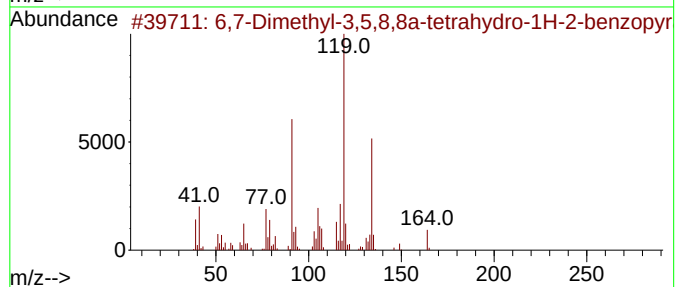
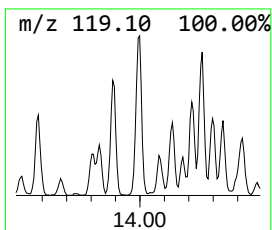
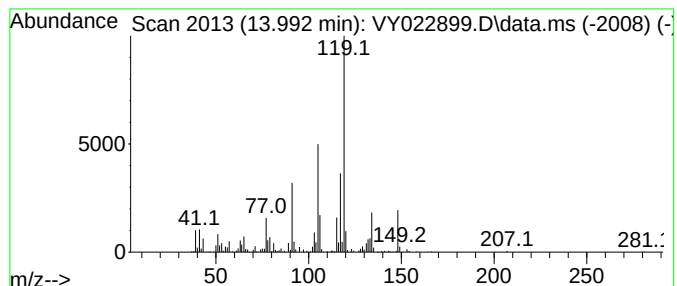
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Quant Title : SW846 8260

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

Peak Number 6 6,7-Dimethyl-3,5,8,8a-tetra... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.993	15.76 ug/l	394176	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			6,7-Dimethyl-3,5,8,8a-tetrahydro...	164	C11H16O	110028-10-9	72
2			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	64
3			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	64
4			o-Cymene	134	C10H14	000527-84-4	64
5			p-Cymene	134	C10H14	000099-87-6	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

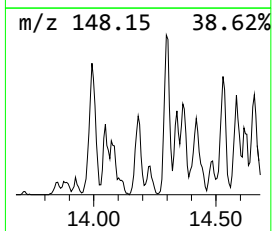
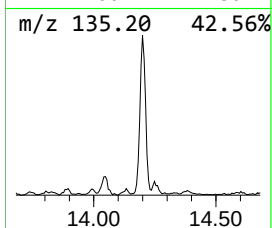
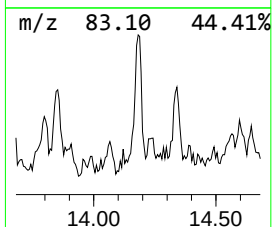
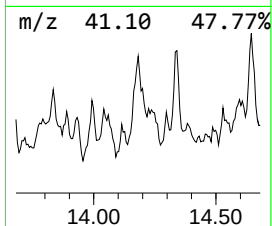
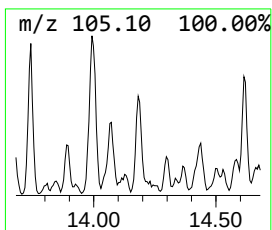
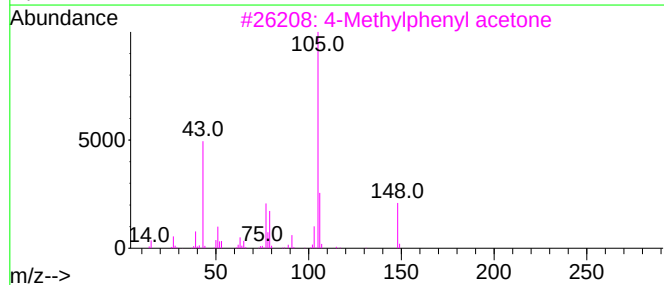
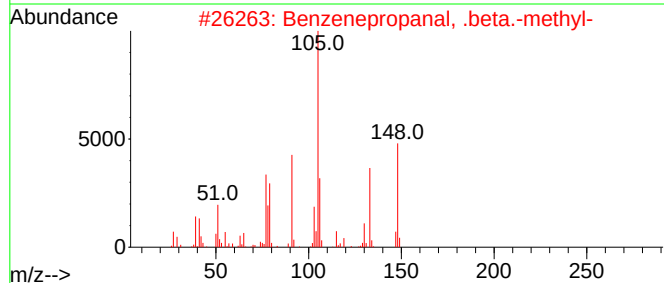
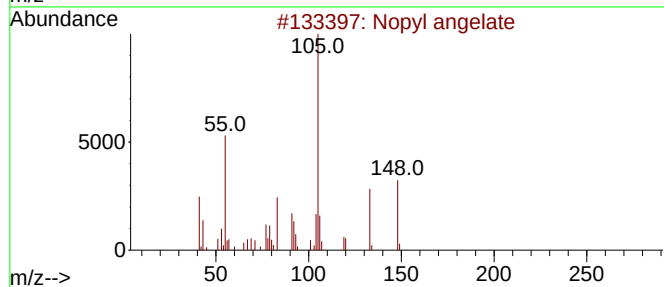
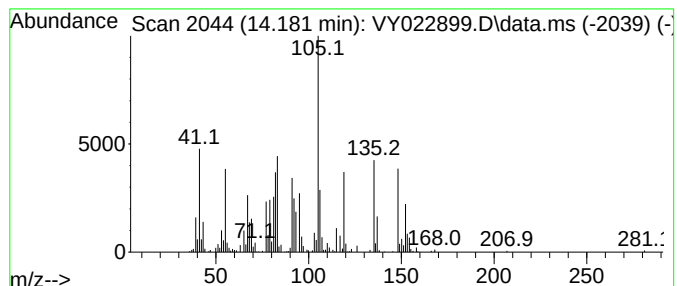
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Quant Title : SW846 8260

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

Peak Number 7 unknown14.182 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.182	9.51 ug/l	237744	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Nopyl angelate	248	C16H24O2	1000383-60-6	32
2			Benzenepropanal, .beta.-methyl-	148	C10H12O	016251-77-7	18
3			4-Methylphenyl acetone	148	C10H12O	002096-86-8	14
4			Benzene, 1-methyl-4-(2-methylpro...	148	C11H16	005161-04-6	14
5			2-Methylindan-2-ol	148	C10H12O	033223-84-6	14



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

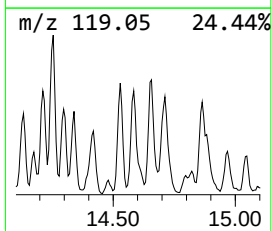
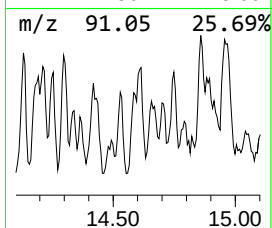
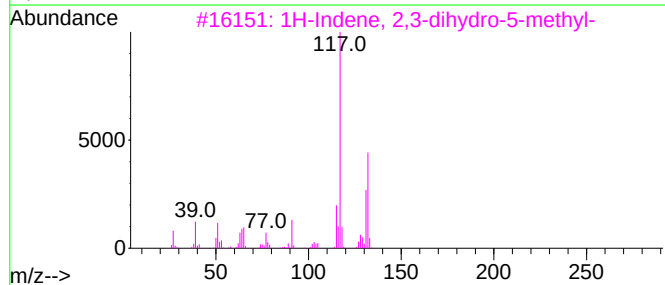
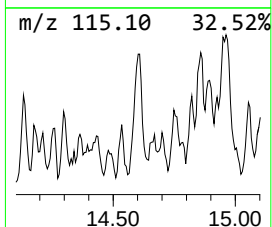
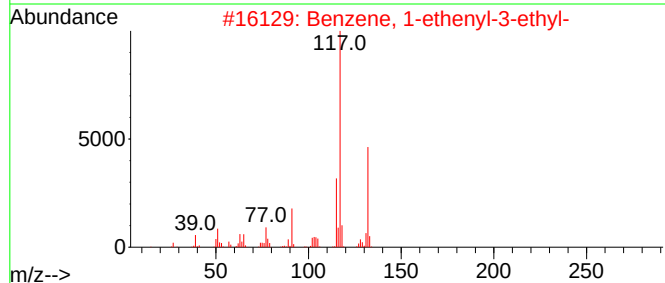
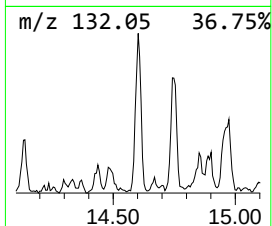
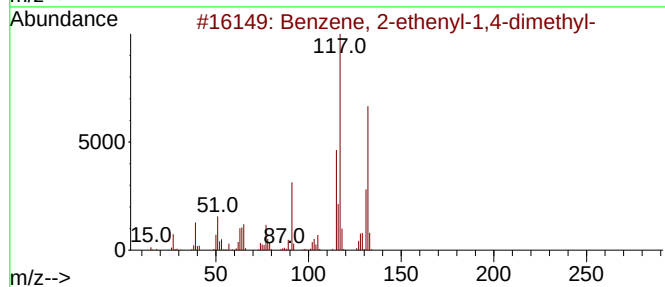
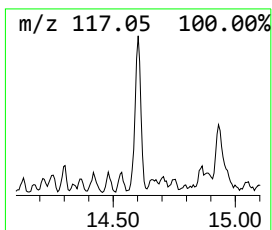
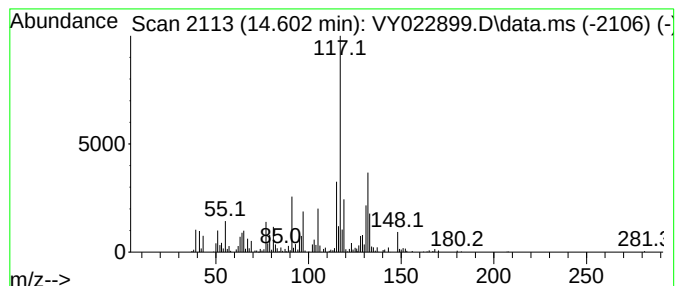
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Quant Title : SW846 8260

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

Peak Number 8 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.602	14.25 ug/l	356504	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	91
2			Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	70
3			1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	70
4			1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	70
5			3-Phenylbut-1-ene	132	C10H12	000934-10-1	68



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

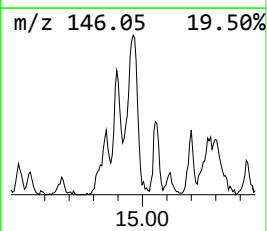
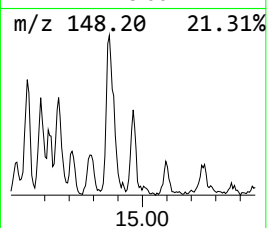
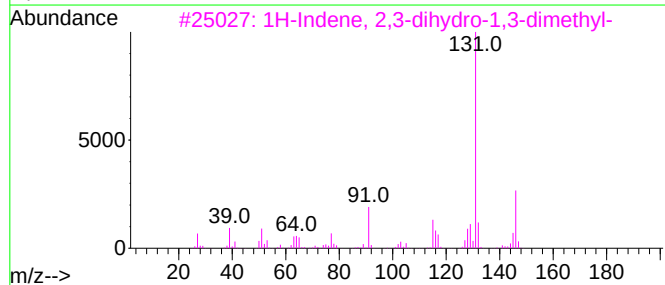
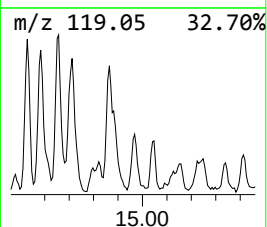
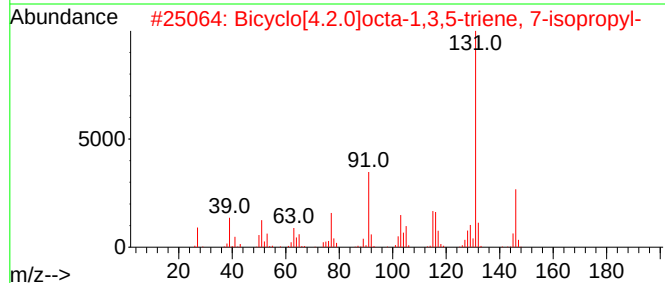
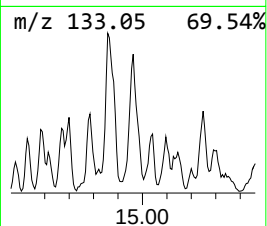
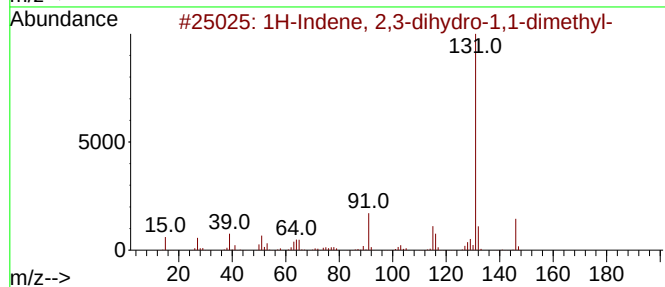
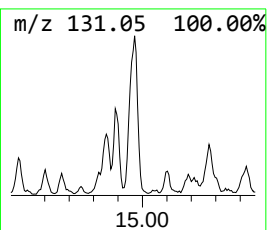
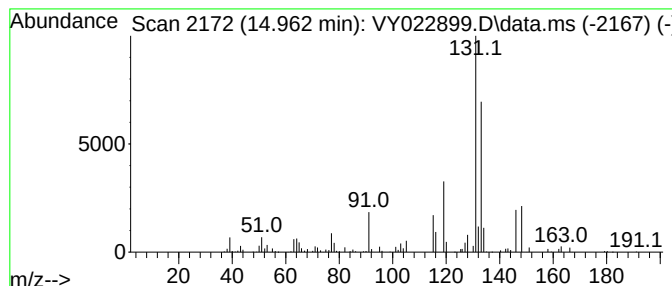
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Quant Title : SW846 8260

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

Peak Number 9 1H-Indene, 2,3-dihydro-1,1-... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.962	10.99 ug/l	274805	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	60
2			Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	55
3			1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	53
4			Cyclopropane, 1-chloro-1-methyl-...	166	C10H11Cl	1000161-07-9	43
5			2-Butene, 3-chloro-1-phenyl-, (Z)-	166	C10H11Cl	016608-68-7	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

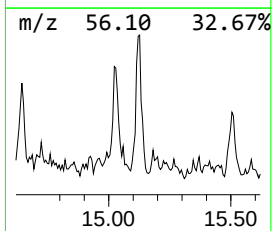
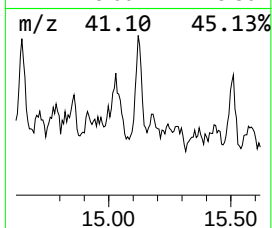
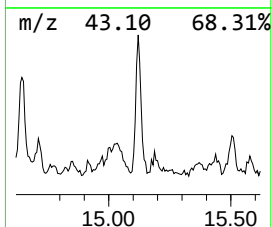
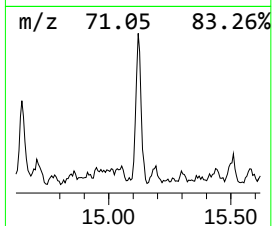
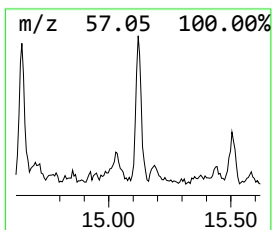
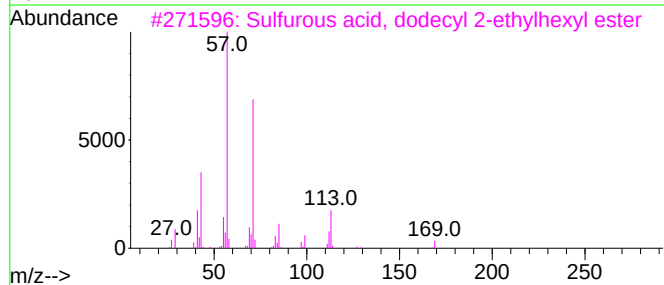
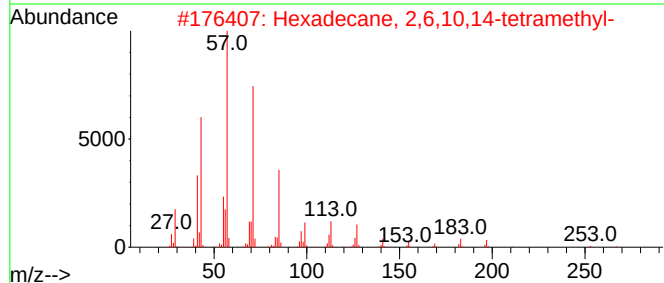
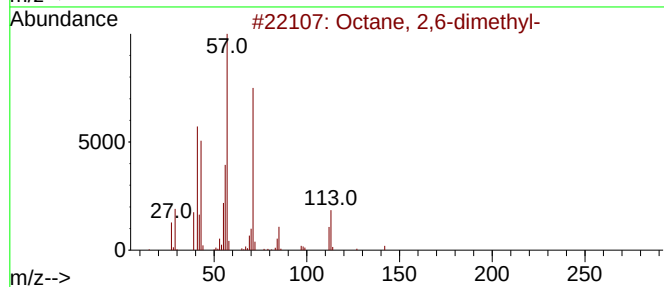
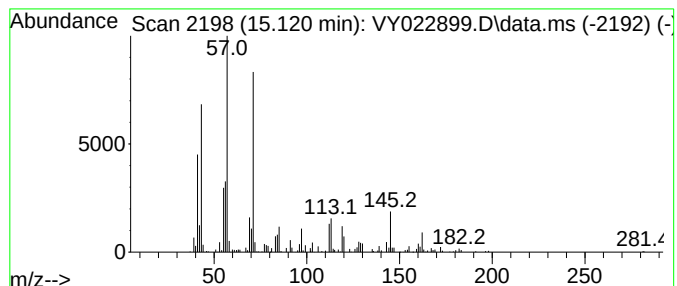
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

Peak Number 10 Octane, 2,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.120	10.36 ug/l	259010	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	64
2			Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	58
3			Sulfurous acid, dodecyl 2-ethylh...	362	C20H42O3S	1000309-19-5	53
4			Octyl tetracosyl ether	467	C32H66O	1000406-39-0	53
5			Tridecane, 7-methyl-	198	C14H30	026730-14-3	52



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022899.D
Acq On : 01 Jul 2025 15:06
Operator : SY/MD
Sample : Q2458-05
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-66

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Hexane, 2,3-dim...	9.688	13.7	ug/l	310702	2	8.615	1133630	50.0
Cyclopentanamine	9.865	21.6	ug/l	490761	2	8.615	1133630	50.0
Hexane, 3-ethyl-	9.920	24.1	ug/l	545420	2	8.615	1133630	50.0
Heptane, 2,5-di...	10.835	12.4	ug/l	385300	3	11.414	1551420	50.0
Naphthalene, de...	13.663	13.9	ug/l	348238	4	13.346	1250490	50.0
6,7-Dimethyl-3,...	13.993	15.8	ug/l	394176	4	13.346	1250490	50.0
unknown14.182	14.182	9.5	ug/l	237744	4	13.346	1250490	50.0
Benzene, 2-ethe...	14.602	14.3	ug/l	356504	4	13.346	1250490	50.0
1H-Indene, 2,3-...	14.962	11.0	ug/l	274805	4	13.346	1250490	50.0
Octane, 2,6-dim...	15.120	10.4	ug/l	259010	4	13.346	1250490	50.0

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.5
Sample Wt/Vol:	6.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022913.D	1	07/02/25 15:33	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.89	U	0.89	3.90	ug/Kg
74-87-3	Chloromethane	0.89	U	0.89	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	3.90	ug/Kg
74-83-9	Bromomethane	0.84	U	0.84	3.90	ug/Kg
75-00-3	Chloroethane	0.98	U	0.98	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.95	U	0.95	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	0.78	U	0.78	3.90	ug/Kg
67-64-1	Acetone	7.40	J	3.70	19.5	ug/Kg
75-15-0	Carbon Disulfide	0.83	U	0.83	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.57	U	0.57	3.90	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.90	ug/Kg
75-09-2	Methylene Chloride	5.50	J	2.80	7.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.67	U	0.67	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
110-82-7	Cyclohexane	0.62	U	0.62	3.90	ug/Kg
78-93-3	2-Butanone	5.10	U	5.10	19.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.76	U	0.76	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.59	U	0.59	3.90	ug/Kg
74-97-5	Bromochloromethane	0.90	U	0.90	3.90	ug/Kg
67-66-3	Chloroform	0.66	U	0.66	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.73	U	0.73	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.71	U	0.71	3.90	ug/Kg
71-43-2	Benzene	0.62	U	0.62	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
79-01-6	Trichloroethene	0.63	U	0.63	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.71	U	0.71	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.61	U	0.61	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	19.5	ug/Kg
108-88-3	Toluene	0.61	U	0.61	3.90	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.5
Sample Wt/Vol:	6.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022913.D	1	07/02/25 15:33	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.51	U	0.51	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.48	U	0.48	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	3.90	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.5	ug/Kg
124-48-1	Dibromochloromethane	0.68	U	0.68	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.69	U	0.69	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.82	U	0.82	3.90	ug/Kg
108-90-7	Chlorobenzene	0.71	U	0.71	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.52	U	0.52	3.90	ug/Kg
179601-23-1	m/p-Xylenes	0.97	U	0.97	7.80	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	3.90	ug/Kg
100-42-5	Styrene	0.55	U	0.55	3.90	ug/Kg
75-25-2	Bromoform	0.67	U	0.67	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.61	U	0.61	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		63 - 155	114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	51.4		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.4		17 - 146	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	284000	7.707			
540-36-3	1,4-Difluorobenzene	538000	8.615			
3114-55-4	Chlorobenzene-d5	539000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	220000	13.346			



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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.5
Sample Wt/Vol:	6.92	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022913.D	1	07/02/25 15:33	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022913.D
 Acq On : 02 Jul 2025 15:33
 Operator : SY/MD
 Sample : Q2458-06
 Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-60

Quant Time: Jul 03 02:23:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

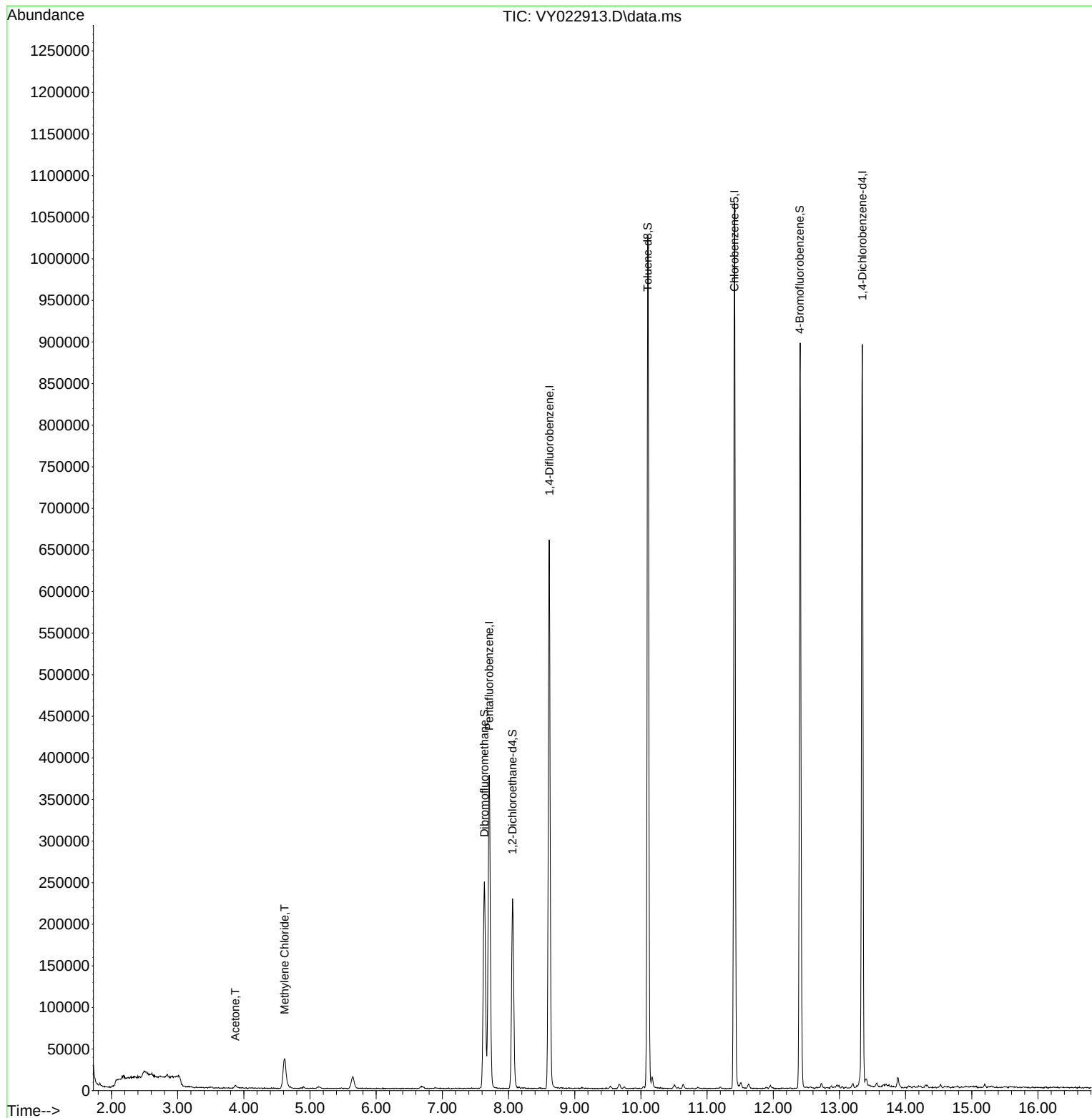
Internal Standards						
1) Pentafluorobenzene	7.707	168	284075	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	537745	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	538792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	220375	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	180152	56.820	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 113.640%	
35) Dibromofluoromethane	7.634	113	174954	53.498	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.000%	
50) Toluene-d8	10.103	98	666650	51.372	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.740%	
62) 4-Bromofluorobenzene	12.401	95	235145	56.367	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 112.740%	
Target Compounds						
					Qvalue	
16) Acetone	3.872	43	5690	9.495	ug/l	99
20) Methylene Chloride	4.616	84	26843	7.093	ug/l	94

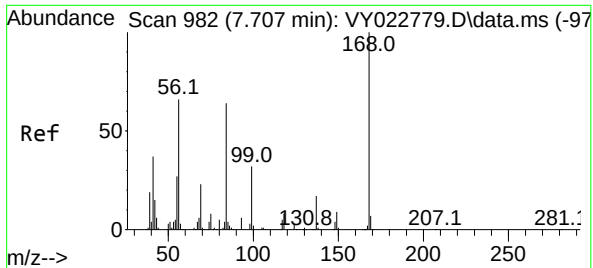
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022913.D
Acq On : 02 Jul 2025 15:33
Operator : SY/MD
Sample : Q2458-06
Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-60

Quant Time: Jul 03 02:23:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

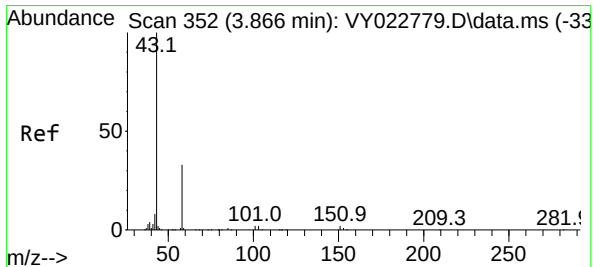
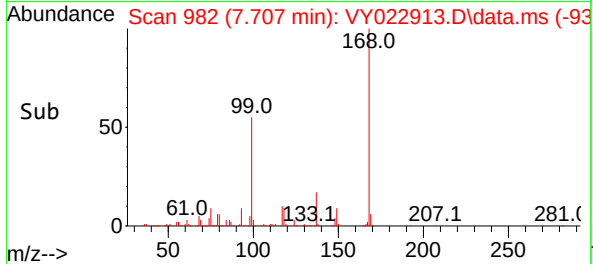
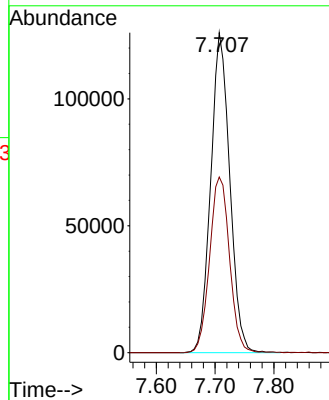
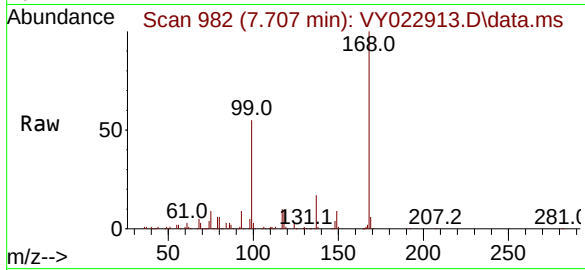




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022913.D
Acq: 02 Jul 2025 15:33

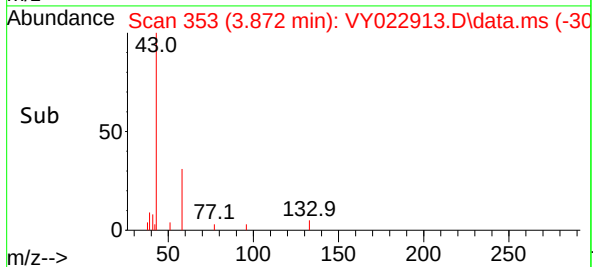
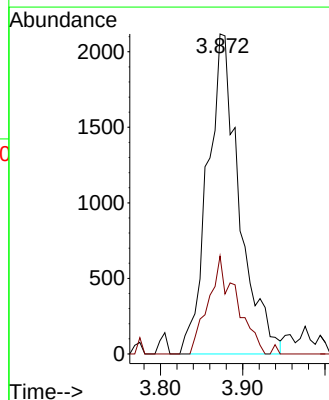
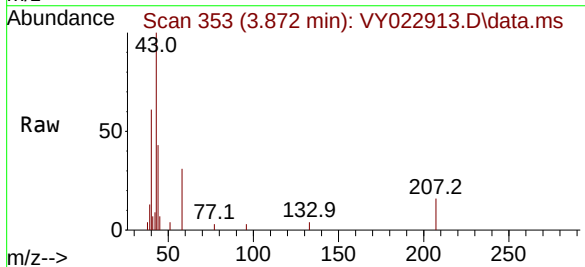
Instrument :
MSVOA_Y
ClientSampleId :
TP-60

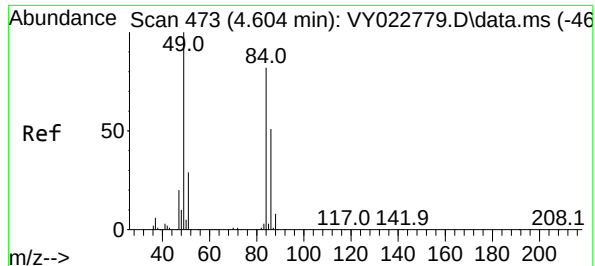
Tgt Ion:168 Resp: 284075
Ion Ratio Lower Upper
168 100
99 54.9 44.3 66.5



#16
Acetone
Concen: 9.495 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022913.D
Acq: 02 Jul 2025 15:33

Tgt Ion: 43 Resp: 5690
Ion Ratio Lower Upper
43 100
58 30.6 24.0 36.0





#20

Methylene Chloride

Concen: 7.093 ug/l

RT: 4.616 min Scan# 41

Delta R.T. -0.006 min

Lab File: VY022913.D

Acq: 02 Jul 2025 15:33

Instrument :

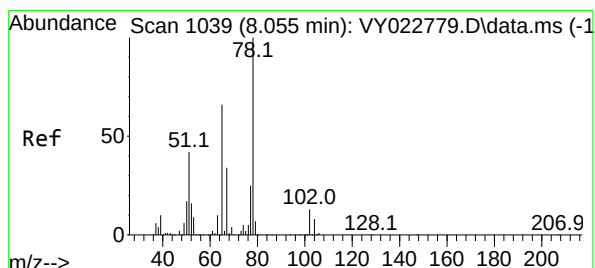
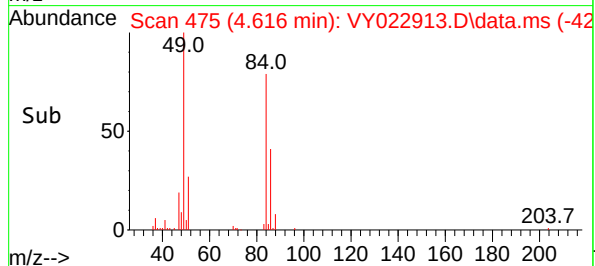
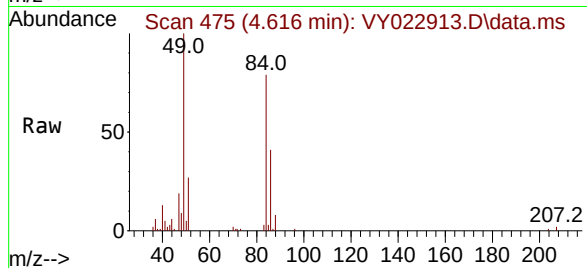
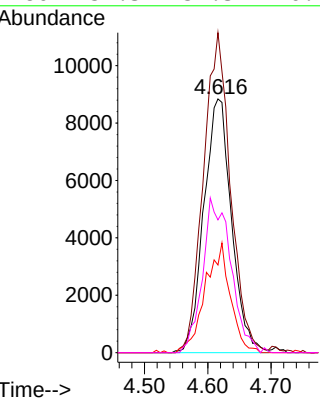
MSVOA_Y

ClientSampleId :

TP-60

Tgt Ion: 84 Resp: 26843

Ion	Ratio	Lower	Upper
84	100		
49	126.1	101.9	152.9
51	34.5	29.8	44.8
86	52.3	51.3	76.9



#33

1,2-Dichloroethane-d4

Concen: 56.820 ug/l

RT: 8.061 min Scan# 1040

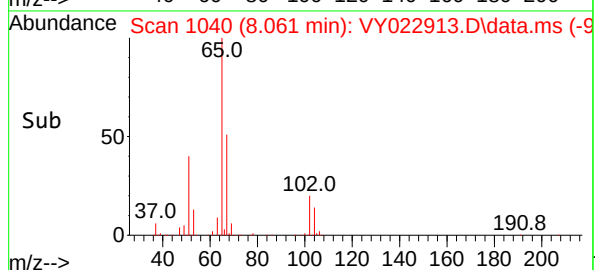
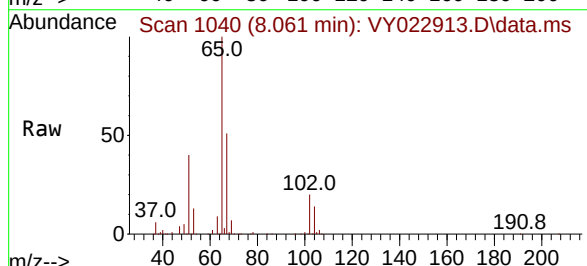
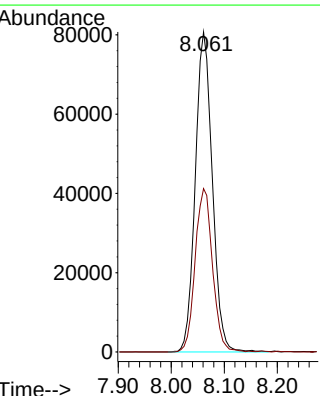
Delta R.T. -0.006 min

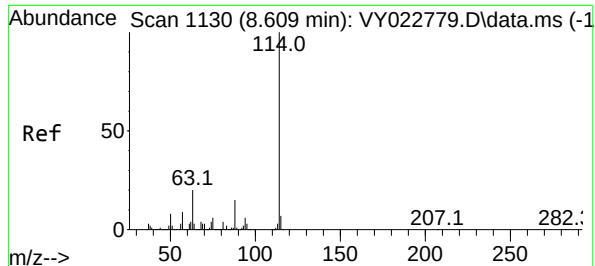
Lab File: VY022913.D

Acq: 02 Jul 2025 15:33

Tgt Ion: 65 Resp: 180152

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VY022913.D

Acq: 02 Jul 2025 15:33

Instrument :

MSVOA_Y

ClientSampleId :

TP-60

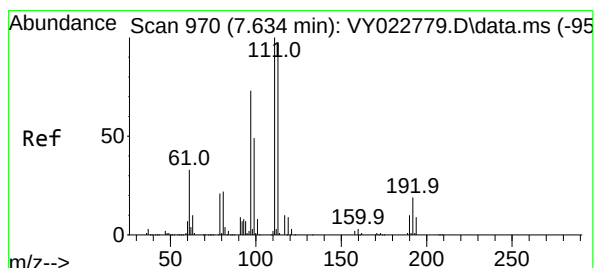
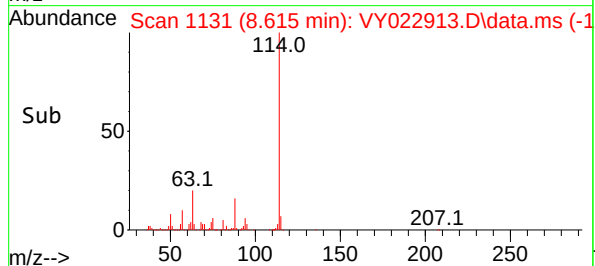
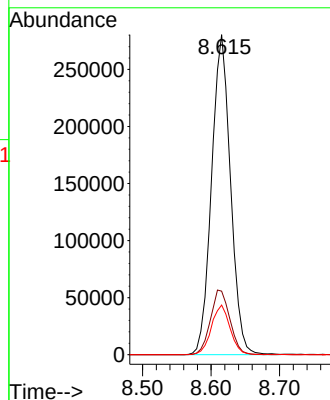
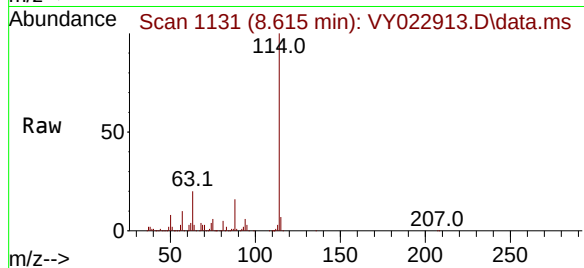
Tgt Ion:114 Resp: 537745

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.8

88 15.5 0.0 27.8



#35

Dibromofluoromethane

Concen: 53.498 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022913.D

Acq: 02 Jul 2025 15:33

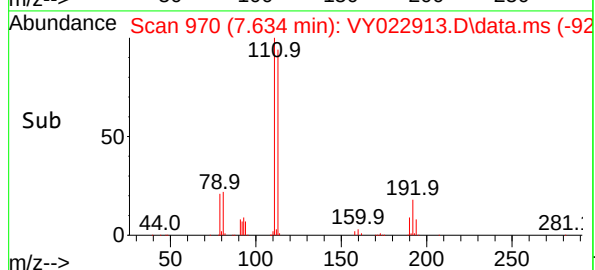
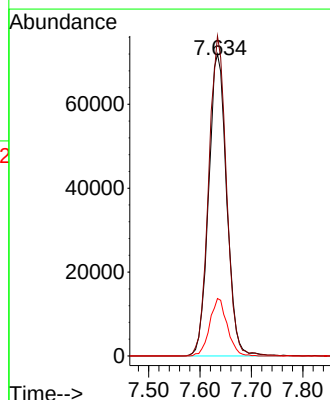
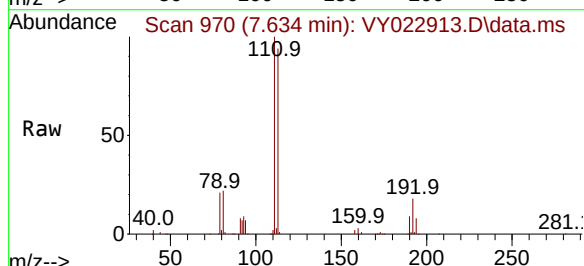
Tgt Ion:113 Resp: 174954

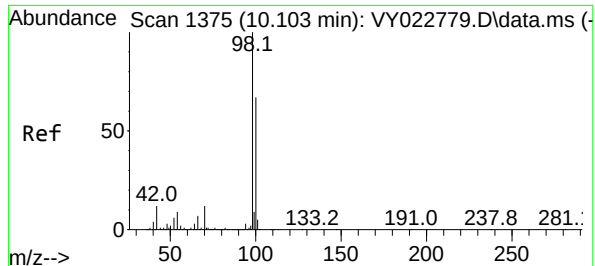
Ion Ratio Lower Upper

113 100

111 104.5 81.1 121.7

192 18.5 14.2 21.2





#50

Toluene-d8

Concen: 51.372 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022913.D

Acq: 02 Jul 2025 15:33

Instrument :

MSVOA_Y

ClientSampleId :

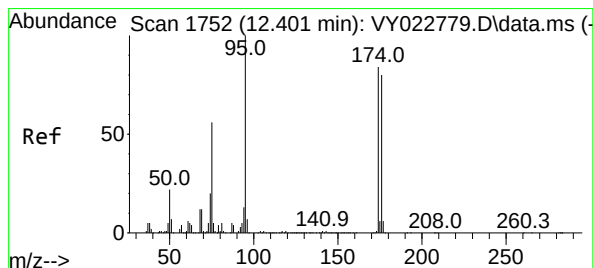
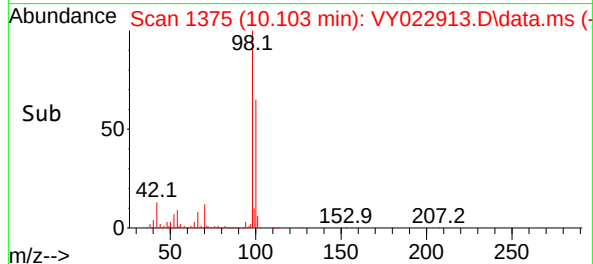
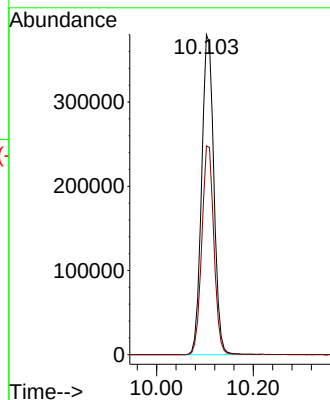
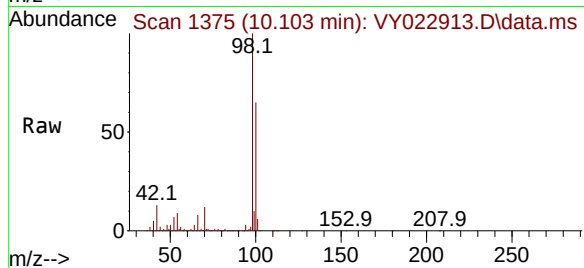
TP-60

Tgt Ion: 98 Resp: 666650

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 56.367 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022913.D

Acq: 02 Jul 2025 15:33

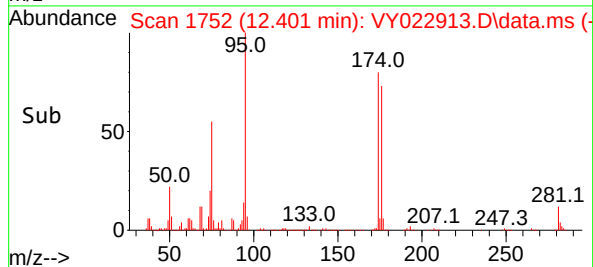
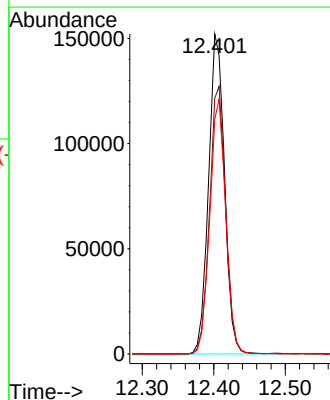
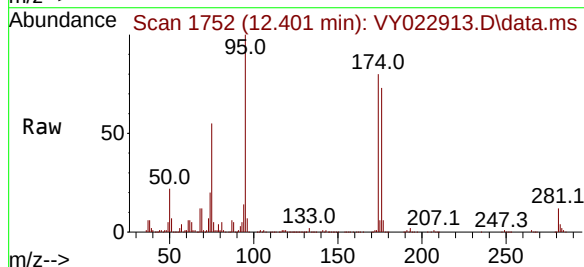
Tgt Ion: 95 Resp: 235145

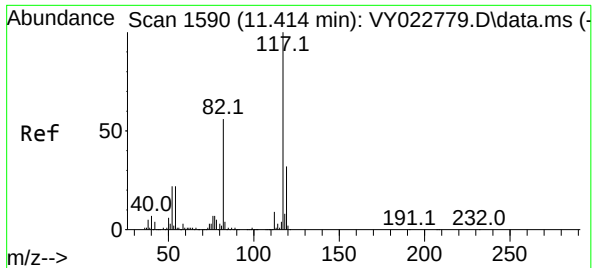
Ion Ratio Lower Upper

95 100

174 84.5 0.0 170.0

176 79.7 0.0 166.2

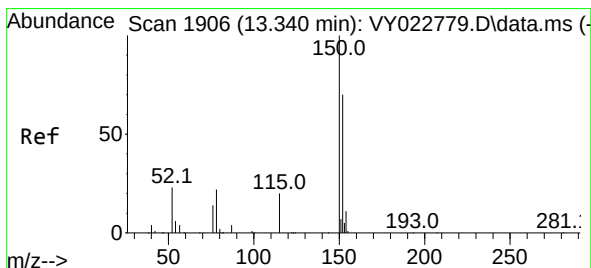
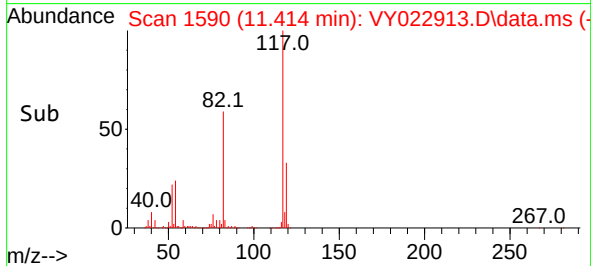
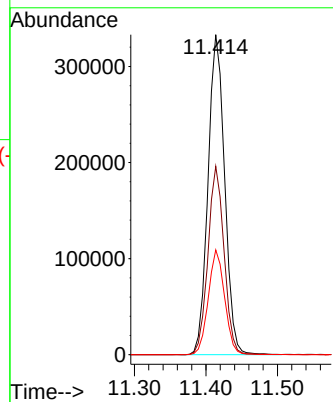
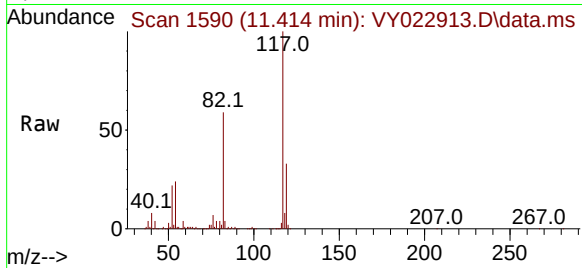




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022913.D
Acq: 02 Jul 2025 15:33

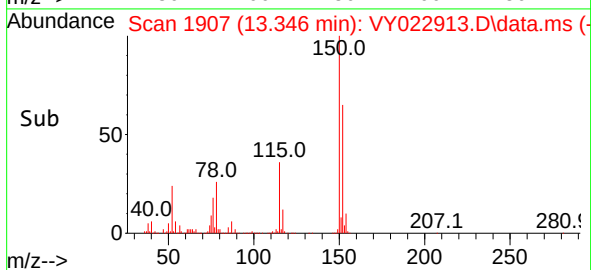
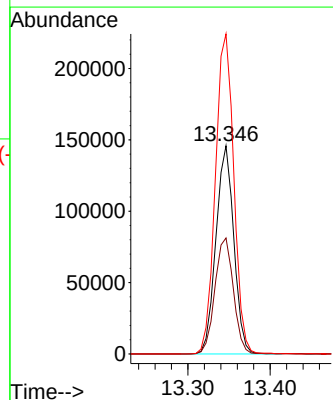
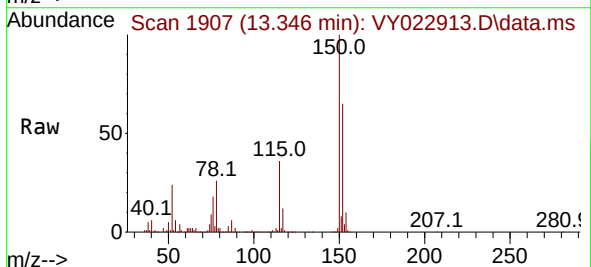
Instrument :
MSVOA_Y
ClientSampleId :
TP-60

Tgt Ion:117 Resp: 538792
Ion Ratio Lower Upper
117 100
82 58.9 44.6 66.8
119 32.7 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022913.D
Acq: 02 Jul 2025 15:33

Tgt Ion:152 Resp: 220375
Ion Ratio Lower Upper
152 100
115 57.5 28.9 86.7
150 157.9 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022913.D
 Acq On : 02 Jul 2025 15:33
 Operator : SY/MD
 Sample : Q2458-06
 Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-60

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Title : SW846 8260

Signal : TIC: VY022913.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	463	475	488	rBV4	35671	121854	6.83%	1.223%
2	5.646	631	644	655	rBV3	14950	50242	2.82%	0.504%
3	7.634	958	970	976	rBV	248465	593680	33.28%	5.960%
4	7.707	976	982	995	rVB	375934	863465	48.40%	8.668%
5	8.061	1030	1040	1053	rBV	228483	513178	28.77%	5.151%
6	8.615	1122	1131	1146	rBV	659679	1289895	72.31%	12.948%
7	10.103	1367	1375	1383	rBV	1025200	1783913	100.00%	17.907%
8	10.170	1383	1386	1392	rVB	12290	20982	1.18%	0.211%
9	11.414	1582	1590	1600	rBV	1064821	1724530	96.67%	17.311%
10	12.407	1744	1753	1765	rBV2	896237	1559590	87.43%	15.656%
11	13.346	1895	1907	1913	rBV	891499	1413800	79.25%	14.192%
12	13.883	1989	1995	2004	rVB3	12219	26700	1.50%	0.268%

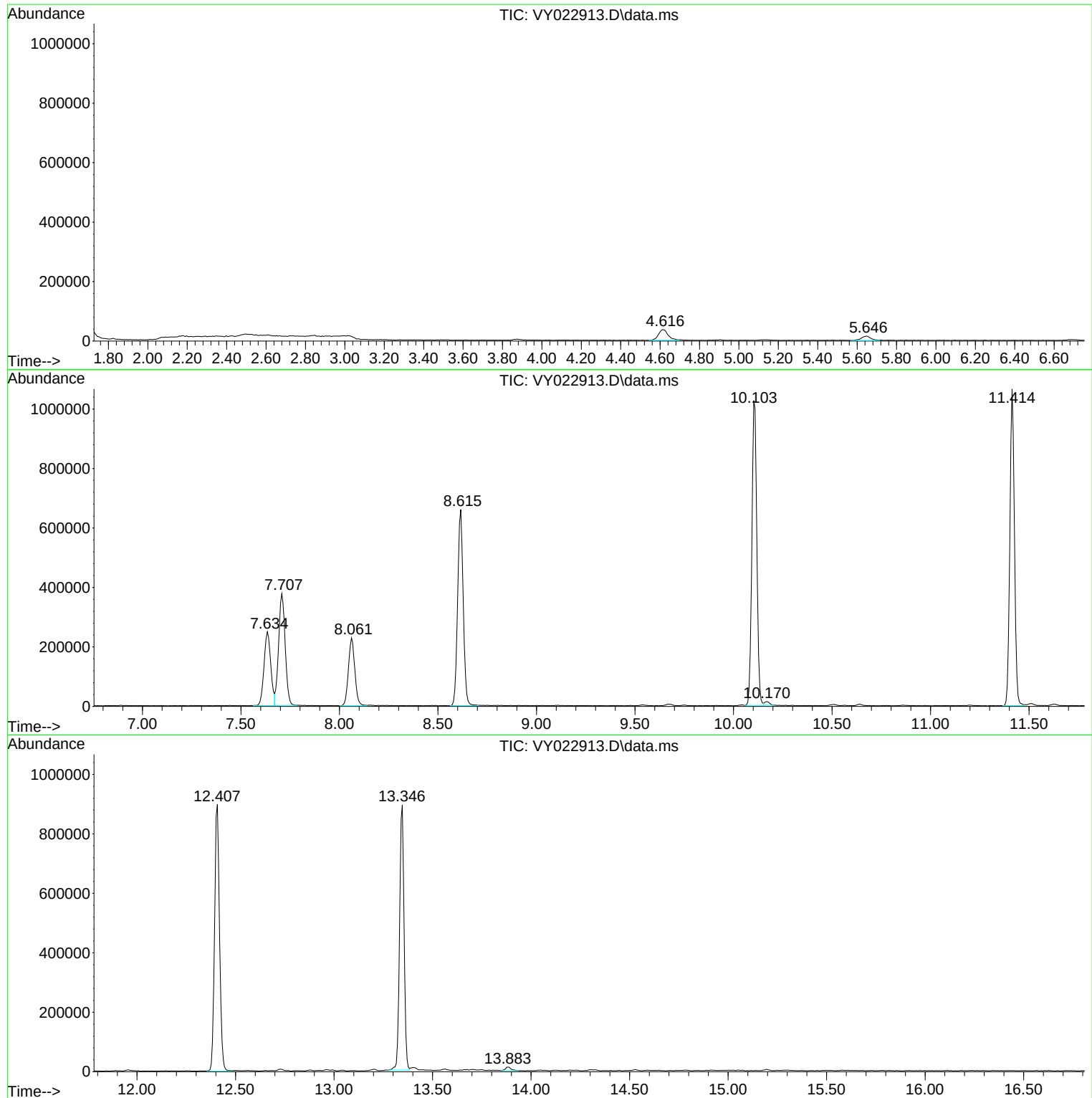
Sum of corrected areas: 9961829

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022913.D
Acq On : 02 Jul 2025 15:33
Operator : SY/MD
Sample : Q2458-06
Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-60

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022913.D
Acq On : 02 Jul 2025 15:33
Operator : SY/MD
Sample : Q2458-06
Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-60

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022913.D
Acq On : 02 Jul 2025 15:33
Operator : SY/MD
Sample : Q2458-06
Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-60

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.1
Sample Wt/Vol:	7.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022914.D	1	07/02/25 15:56	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.83	U	0.83	3.70	ug/Kg
74-87-3	Chloromethane	0.83	U	0.83	3.70	ug/Kg
75-01-4	Vinyl Chloride	0.58	U	0.58	3.70	ug/Kg
74-83-9	Bromomethane	0.78	U	0.78	3.70	ug/Kg
75-00-3	Chloroethane	0.92	U	0.92	3.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.89	U	0.89	3.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.78	U	0.78	3.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.73	U	0.73	3.70	ug/Kg
67-64-1	Acetone	3.50	U	3.50	18.3	ug/Kg
75-15-0	Carbon Disulfide	0.78	U	0.78	3.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.53	U	0.53	3.70	ug/Kg
79-20-9	Methyl Acetate	1.10	U	1.10	3.70	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.63	U	0.63	3.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.59	U	0.59	3.70	ug/Kg
110-82-7	Cyclohexane	0.58	U	0.58	3.70	ug/Kg
78-93-3	2-Butanone	4.80	U	4.80	18.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.71	U	0.71	3.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.55	U	0.55	3.70	ug/Kg
74-97-5	Bromochloromethane	0.84	U	0.84	3.70	ug/Kg
67-66-3	Chloroform	0.61	U	0.61	3.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.68	U	0.68	3.70	ug/Kg
108-87-2	Methylcyclohexane	0.67	U	0.67	3.70	ug/Kg
71-43-2	Benzene	0.58	U	0.58	3.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.58	U	0.58	3.70	ug/Kg
79-01-6	Trichloroethene	0.59	U	0.59	3.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.67	U	0.67	3.70	ug/Kg
75-27-4	Bromodichloromethane	0.57	U	0.57	3.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.60	U	2.60	18.3	ug/Kg
108-88-3	Toluene	0.57	U	0.57	3.70	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.1
Sample Wt/Vol:	7.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022914.D	1	07/02/25 15:56	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.48	U	0.48	3.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.45	U	0.45	3.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.67	U	0.67	3.70	ug/Kg
591-78-6	2-Hexanone	2.70	U	2.70	18.3	ug/Kg
124-48-1	Dibromochloromethane	0.64	U	0.64	3.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.64	U	0.64	3.70	ug/Kg
127-18-4	Tetrachloroethene	0.77	U	0.77	3.70	ug/Kg
108-90-7	Chlorobenzene	0.67	U	0.67	3.70	ug/Kg
100-41-4	Ethyl Benzene	0.49	U	0.49	3.70	ug/Kg
179601-23-1	m/p-Xylenes	0.91	U	0.91	7.30	ug/Kg
95-47-6	o-Xylene	0.60	U	0.60	3.70	ug/Kg
100-42-5	Styrene	0.52	U	0.52	3.70	ug/Kg
75-25-2	Bromoform	0.63	U	0.63	3.70	ug/Kg
98-82-8	Isopropylbenzene	0.57	U	0.57	3.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.89	U	0.89	3.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.10	U	1.10	3.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	3.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.20	U	2.20	3.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.30	U	2.30	3.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.2		63 - 155	116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		70 - 134	106%	SPK: 50
2037-26-5	Toluene-d8	50.7		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.2		17 - 146	116%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	277000	7.707			
540-36-3	1,4-Difluorobenzene	536000	8.616			
3114-55-4	Chlorobenzene-d5	553000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	247000	13.347			

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.1
Sample Wt/Vol:	7.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022914.D	1	07/02/25 15:56	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022914.D
 Acq On : 02 Jul 2025 15:56
 Operator : SY/MD
 Sample : Q2458-07
 Misc : 7.50g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-62

Quant Time: Jul 03 02:23:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	277237	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	536046	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	553104	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	246603	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	180233	58.248	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	116.500%
35) Dibromofluoromethane	7.634	113	171976	52.754	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	105.500%
50) Toluene-d8	10.103	98	656357	50.739	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	101.480%
62) 4-Bromofluorobenzene	12.402	95	242137	58.227	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	116.460%

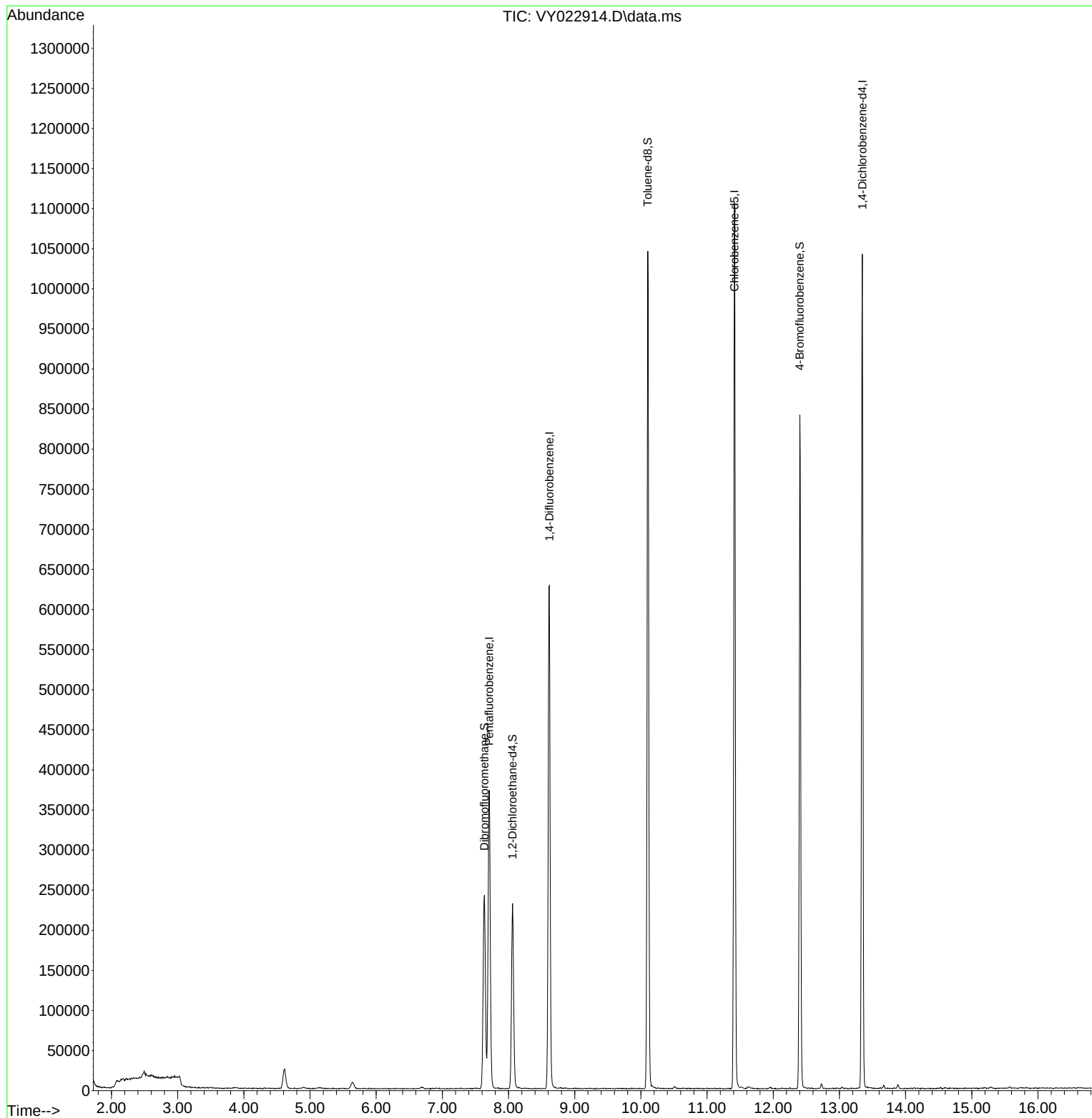
Target Compounds	Qvalue

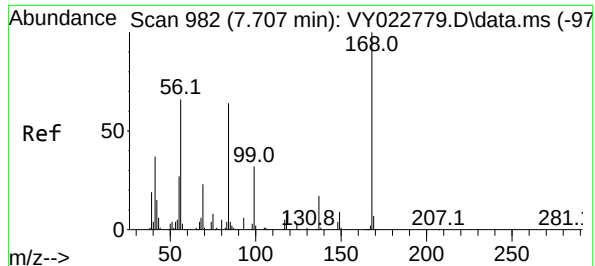
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022914.D
Acq On : 02 Jul 2025 15:56
Operator : SY/MD
Sample : Q2458-07
Misc : 7.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-62

Quant Time: Jul 03 02:23:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

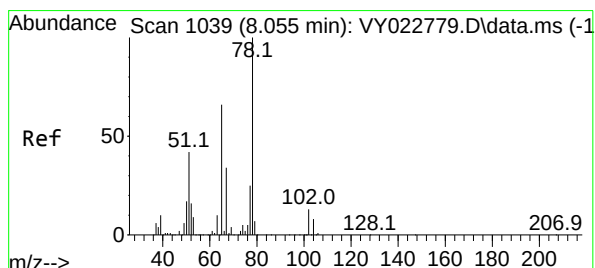
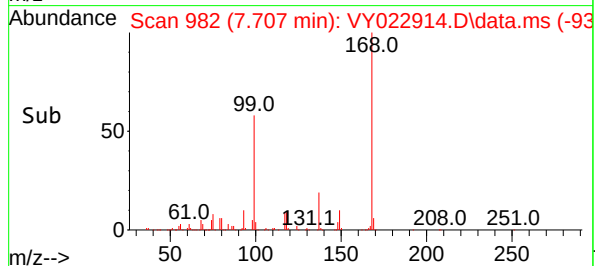
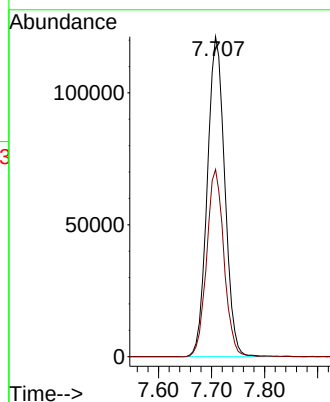
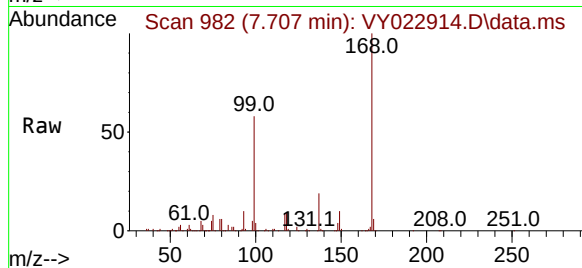




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022914.D
Acq: 02 Jul 2025 15:56

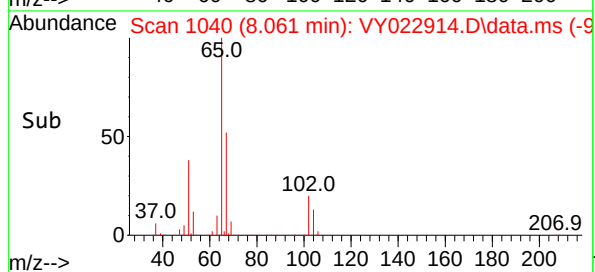
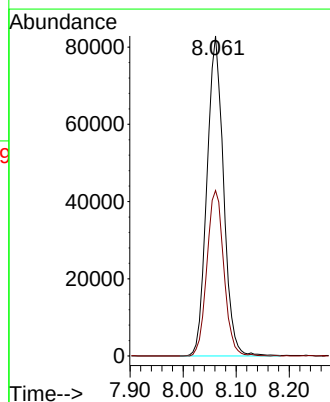
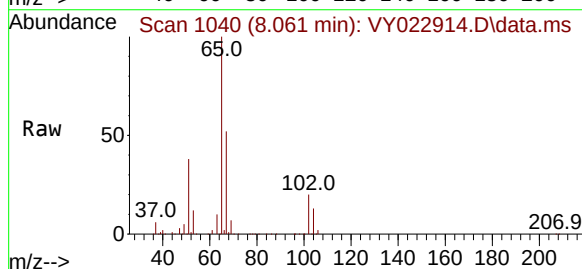
Instrument :
MSVOA_Y
ClientSampleId :
TP-62

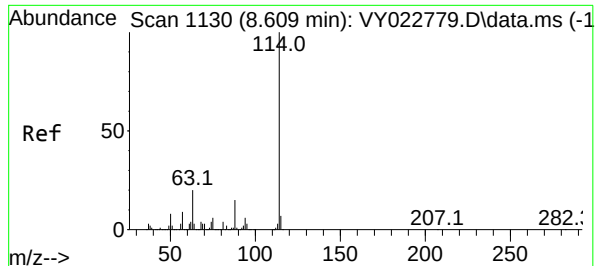
Tgt Ion:168 Resp: 277237
Ion Ratio Lower Upper
168 100
99 58.5 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 58.248 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022914.D
Acq: 02 Jul 2025 15:56

Tgt Ion: 65 Resp: 180233
Ion Ratio Lower Upper
65 100
67 52.8 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022914.D

Acq: 02 Jul 2025 15:56

Instrument :

MSVOA_Y

ClientSampleId :

TP-62

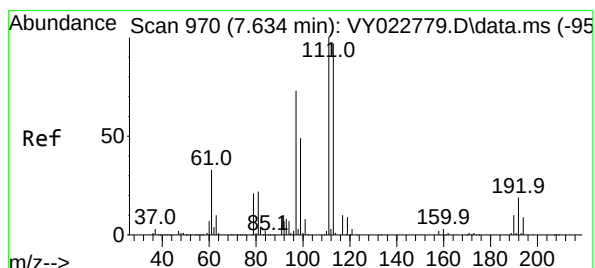
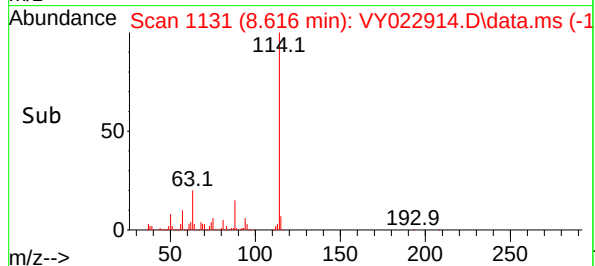
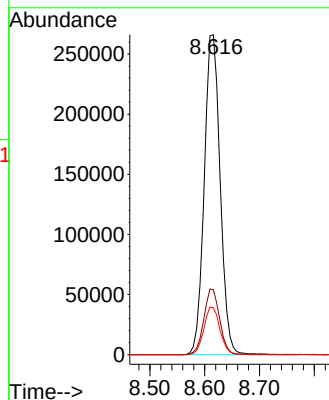
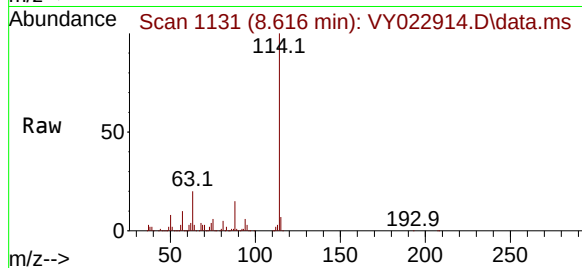
Tgt Ion:114 Resp: 536046

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

88 14.6 0.0 27.8



#35

Dibromofluoromethane

Concen: 52.754 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022914.D

Acq: 02 Jul 2025 15:56

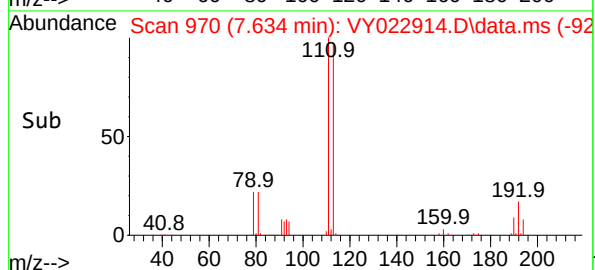
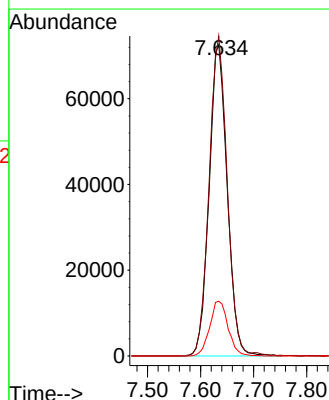
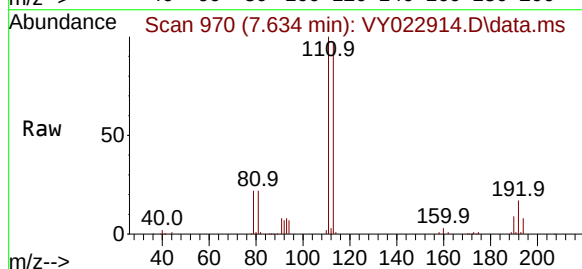
Tgt Ion:113 Resp: 171976

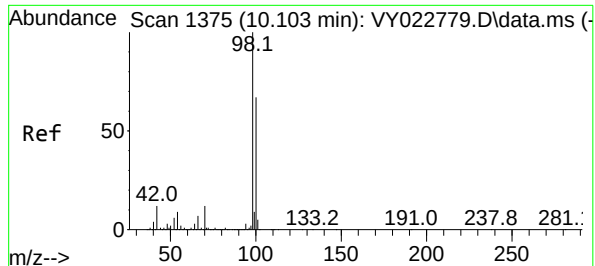
Ion Ratio Lower Upper

113 100

111 103.0 81.1 121.7

192 17.9 14.2 21.2





#50

Toluene-d8

Concen: 50.739 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022914.D

Acq: 02 Jul 2025 15:56

Instrument :

MSVOA_Y

ClientSampleId :

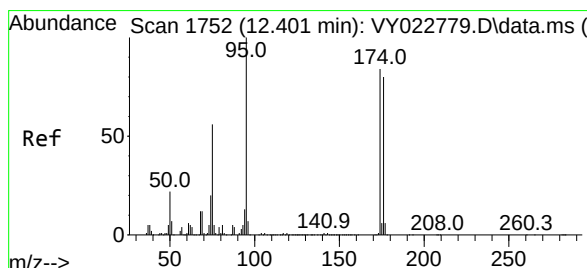
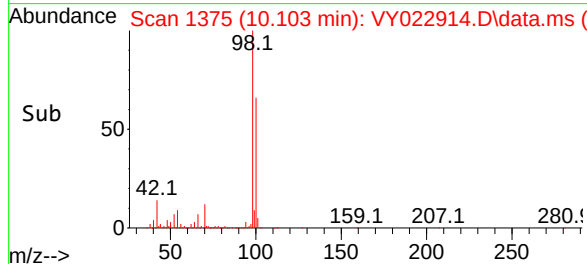
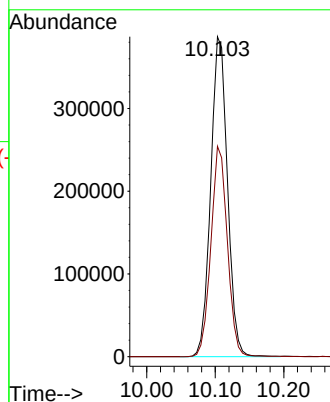
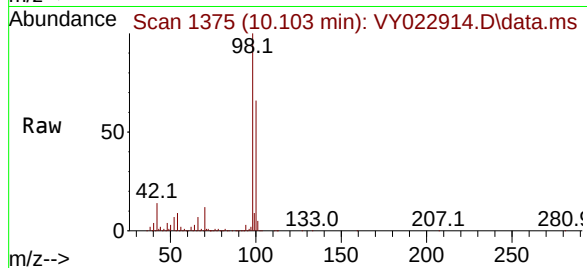
TP-62

Tgt Ion: 98 Resp: 656357

Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 58.227 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022914.D

Acq: 02 Jul 2025 15:56

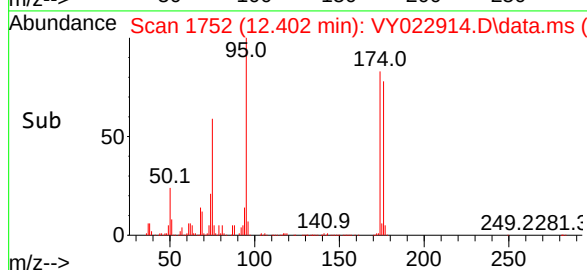
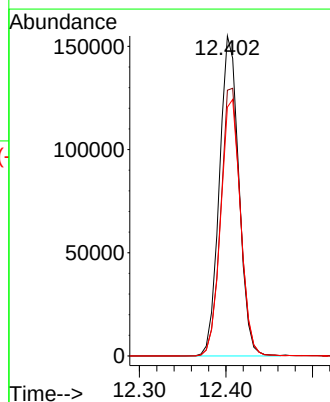
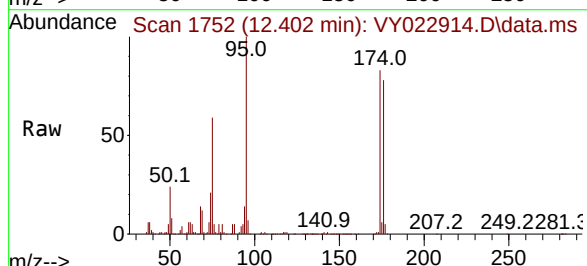
Tgt Ion: 95 Resp: 242137

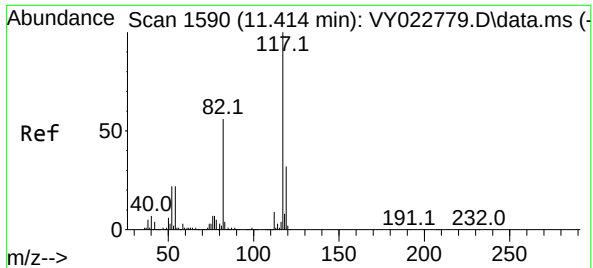
Ion Ratio Lower Upper

95 100

174 84.3 0.0 170.0

176 81.9 0.0 166.2

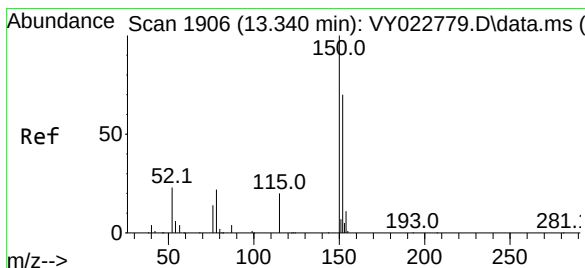
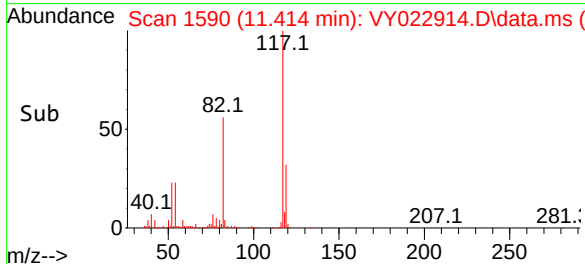
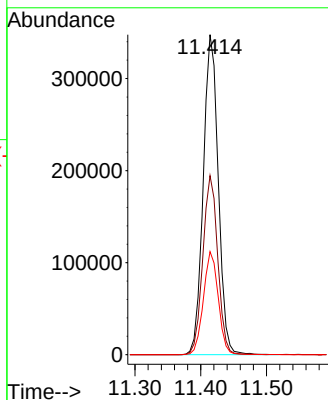
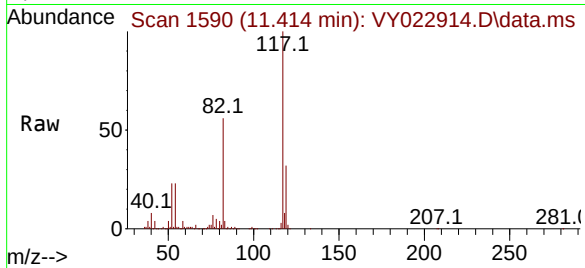




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022914.D
Acq: 02 Jul 2025 15:56

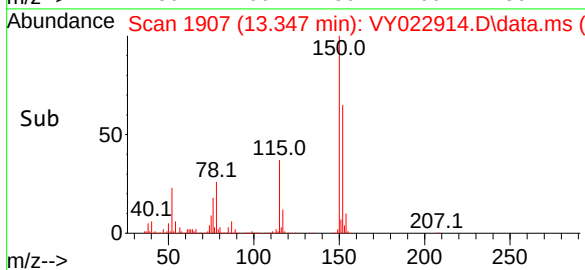
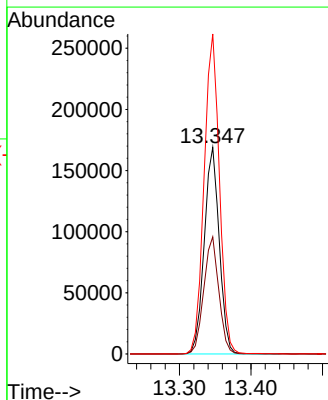
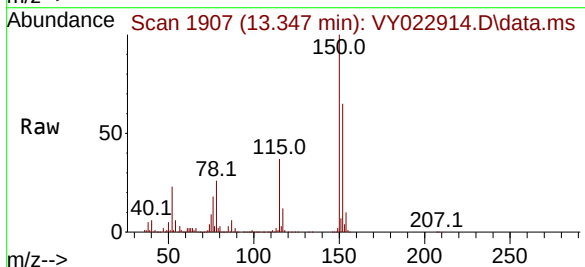
Instrument :
MSVOA_Y
ClientSampleId :
TP-62

Tgt Ion:117 Resp: 553104
Ion Ratio Lower Upper
117 100
82 56.0 44.6 66.8
119 32.2 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022914.D
Acq: 02 Jul 2025 15:56

Tgt Ion:152 Resp: 246603
Ion Ratio Lower Upper
152 100
115 56.8 28.9 86.7
150 157.5 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022914.D
Acq On : 02 Jul 2025 15:56
Operator : SY/MD
Sample : Q2458-07
Misc : 7.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-62

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Title : SW846 8260

Signal : TIC: VY022914.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	51	59	63	rBV3	7944	22681	1.28%	0.233%
2	4.616	463	475	484	rBV2	24458	74732	4.23%	0.766%
3	5.641	634	643	653	rVB6	8206	27048	1.53%	0.277%
4	7.634	959	970	976	rBV	241414	583437	33.01%	5.982%
5	7.707	976	982	996	rVB	371908	848344	47.99%	8.699%
6	8.061	1031	1040	1054	rBV	230889	511550	28.94%	5.245%
7	8.616	1121	1131	1145	rBV	627170	1271841	71.95%	13.041%
8	10.103	1368	1375	1384	rBV	1044148	1767704	100.00%	18.125%
9	11.414	1582	1590	1604	rBV	1104974	1757146	99.40%	18.017%
10	12.402	1744	1752	1763	rBV	840776	1322385	74.81%	13.559%
11	13.347	1900	1907	1917	rBV	1039724	1565756	88.58%	16.055%

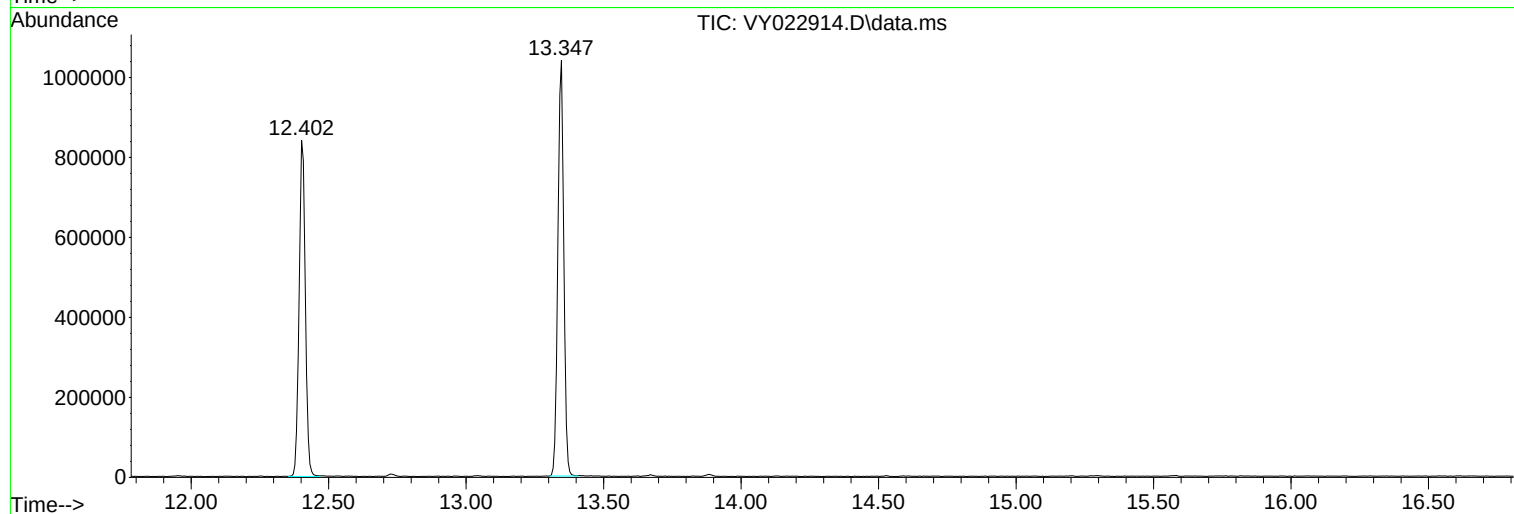
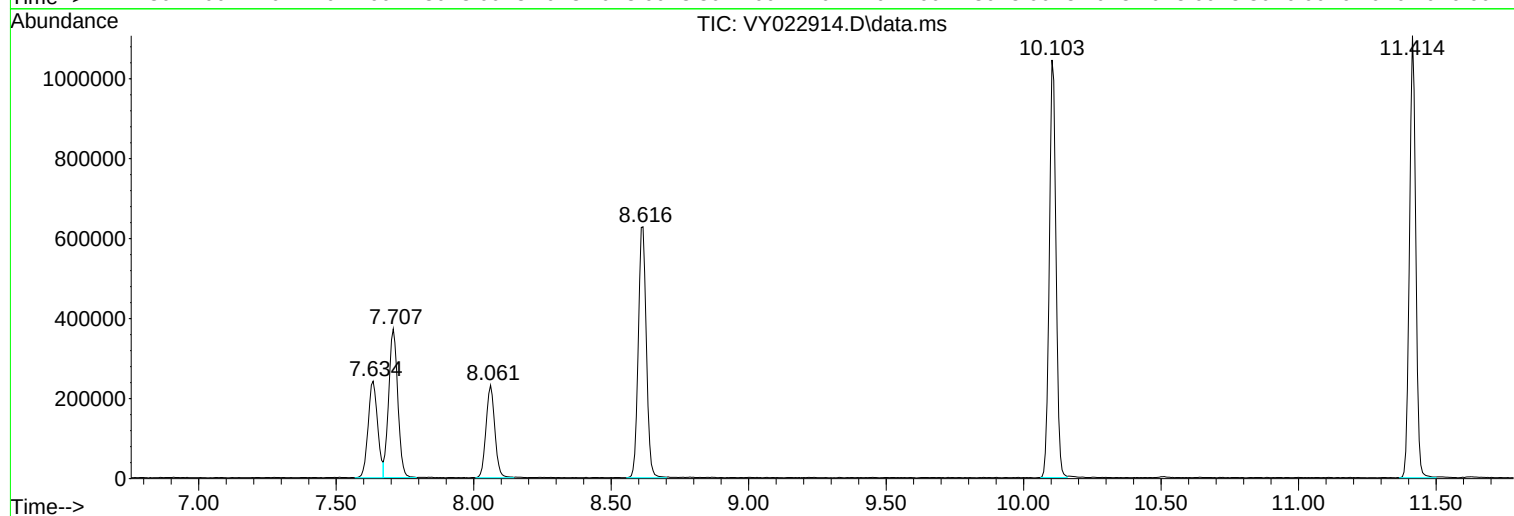
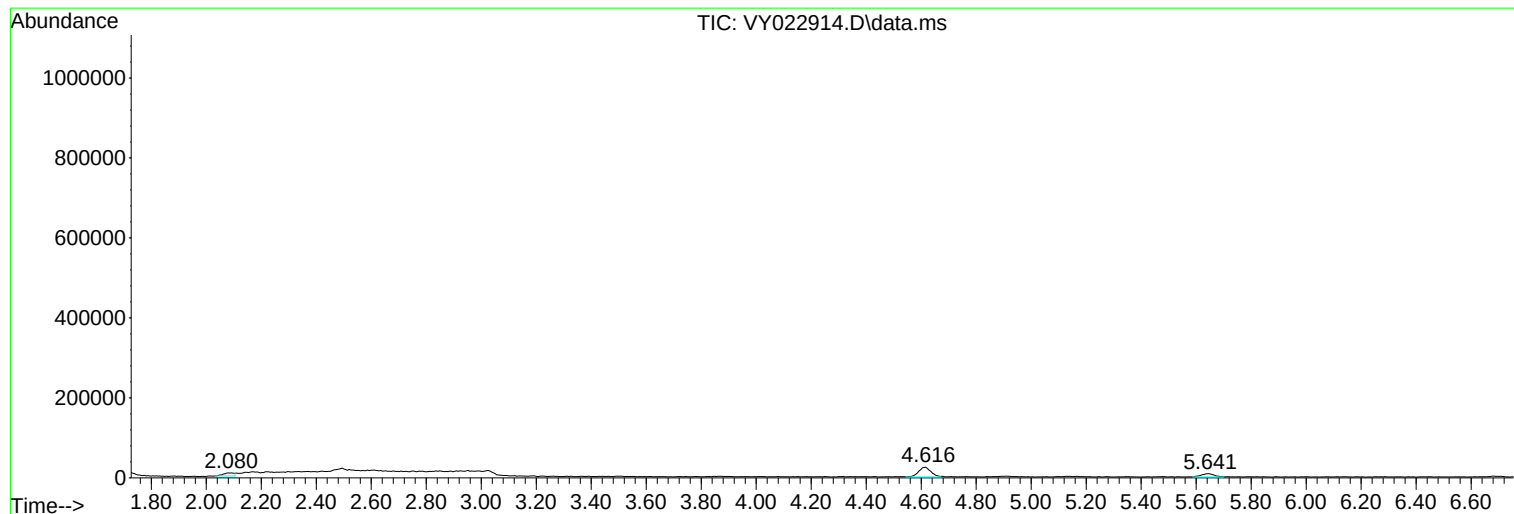
Sum of corrected areas: 9752624

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022914.D
Acq On : 02 Jul 2025 15:56
Operator : SY/MD
Sample : Q2458-07
Misc : 7.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-62

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022914.D
Acq On : 02 Jul 2025 15:56
Operator : SY/MD
Sample : Q2458-07
Misc : 7.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-62

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022914.D
Acq On : 02 Jul 2025 15:56
Operator : SY/MD
Sample : Q2458-07
Misc : 7.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-62

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.4
Sample Wt/Vol:	4.91 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022915.D	1	07/02/25 16:20	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	5.90	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.90	ug/Kg
75-01-4	Vinyl Chloride	0.93	U	0.93	5.90	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	5.90	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	5.90	ug/Kg
75-69-4	Trichlorofluoromethane	1.40	U	1.40	5.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.90	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	5.90	ug/Kg
67-64-1	Acetone	5.60	U	5.60	29.5	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	5.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.86	U	0.86	5.90	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.90	ug/Kg
75-09-2	Methylene Chloride	4.20	U	4.20	11.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	5.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.94	U	0.94	5.90	ug/Kg
110-82-7	Cyclohexane	0.93	U	0.93	5.90	ug/Kg
78-93-3	2-Butanone	7.70	U	7.70	29.5	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	5.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.88	U	0.88	5.90	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	5.90	ug/Kg
67-66-3	Chloroform	0.99	U	0.99	5.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	5.90	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	5.90	ug/Kg
71-43-2	Benzene	0.93	U	0.93	5.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.93	U	0.93	5.90	ug/Kg
79-01-6	Trichloroethene	0.95	U	0.95	5.90	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	5.90	ug/Kg
75-27-4	Bromodichloromethane	0.92	U	0.92	5.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	29.5	ug/Kg
108-88-3	Toluene	0.92	U	0.92	5.90	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.4
Sample Wt/Vol:	4.91 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022915.D	1	07/02/25 16:20	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.77	U	0.77	5.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.73	U	0.73	5.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	5.90	ug/Kg
591-78-6	2-Hexanone	4.30	U	4.30	29.5	ug/Kg
124-48-1	Dibromochloromethane	1.00	U	1.00	5.90	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	5.90	ug/Kg
127-18-4	Tetrachloroethene	1.20	U	1.20	5.90	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	5.90	ug/Kg
100-41-4	Ethyl Benzene	0.79	U	0.79	5.90	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	11.8	ug/Kg
95-47-6	o-Xylene	0.97	U	0.97	5.90	ug/Kg
100-42-5	Styrene	0.84	U	0.84	5.90	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	5.90	ug/Kg
98-82-8	Isopropylbenzene	0.92	U	0.92	5.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	5.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.00	U	2.00	5.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.80	U	1.80	5.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.70	U	1.70	5.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.20	U	2.20	5.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.50	U	3.50	5.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.70	U	3.70	5.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.7		63 - 155	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	50.0		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		17 - 146	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	278000	7.707			
540-36-3	1,4-Difluorobenzene	537000	8.615			
3114-55-4	Chlorobenzene-d5	515000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	196000	13.346			



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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.4
Sample Wt/Vol:	4.91	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022915.D	1	07/02/25 16:20	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022915.D
 Acq On : 02 Jul 2025 16:20
 Operator : SY/MD
 Sample : Q2458-08
 Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-63

Quant Time: Jul 03 02:24:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	278456	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	537398	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	515031	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	195752	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	166821	53.677	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	107.360%
35) Dibromofluoromethane	7.634	113	166540	50.958	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.920%
50) Toluene-d8	10.103	98	648984	50.042	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.080%
62) 4-Bromofluorobenzene	12.401	95	212971	51.084	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	102.160%

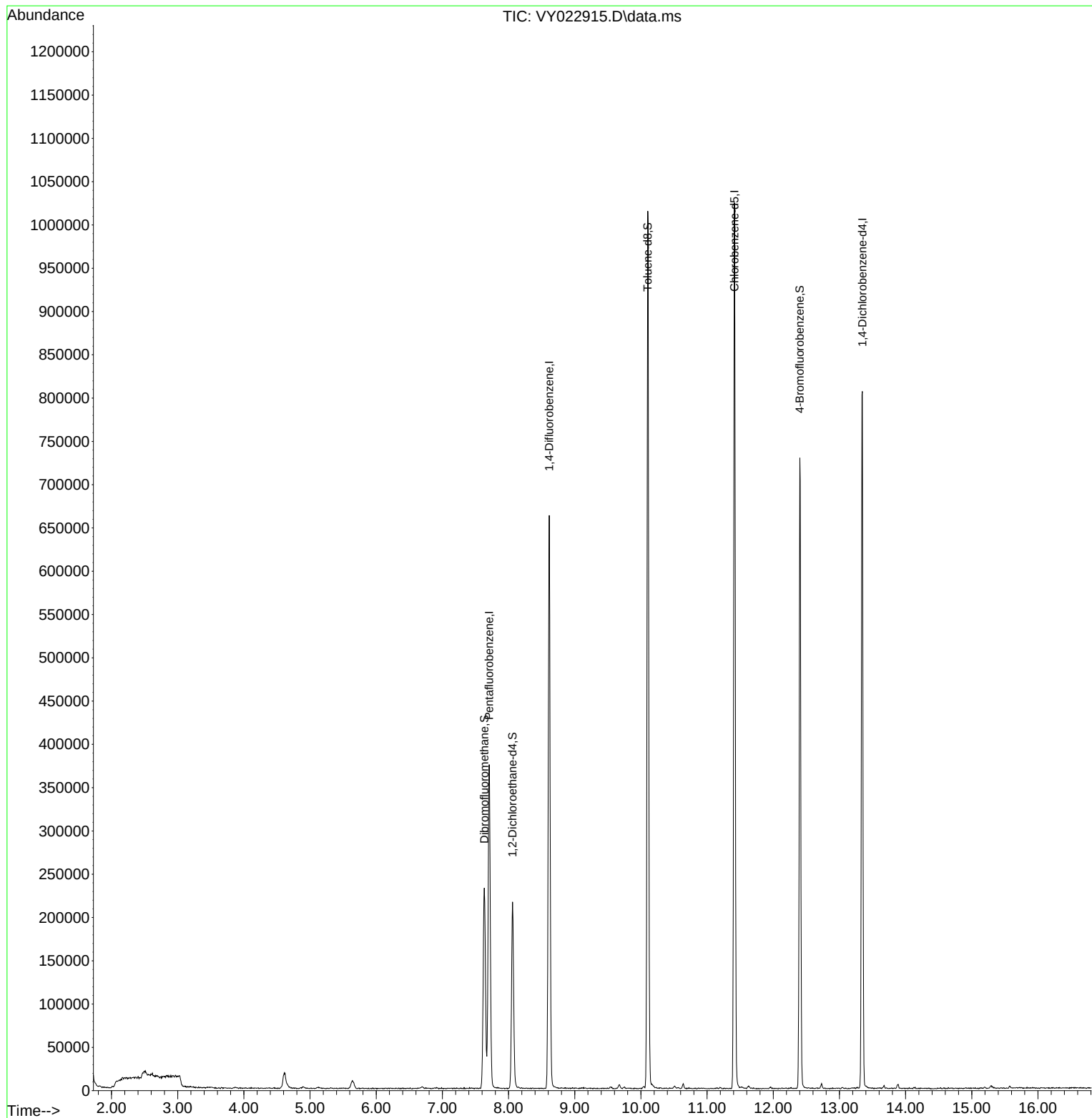
Target Compounds	Qvalue

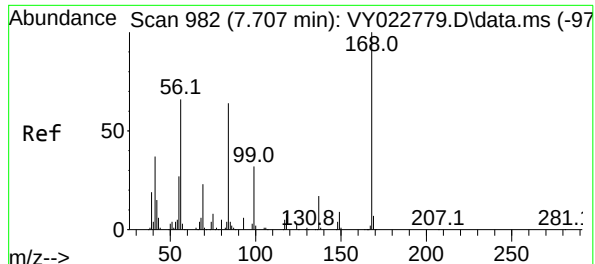
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022915.D
Acq On : 02 Jul 2025 16:20
Operator : SY/MD
Sample : Q2458-08
Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-63

Quant Time: Jul 03 02:24:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

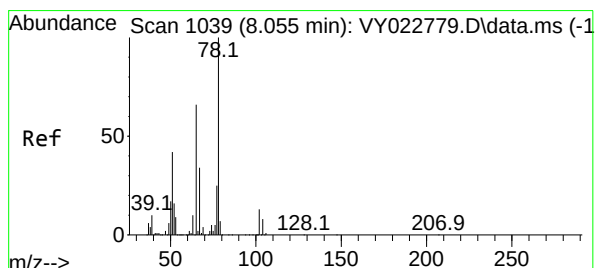
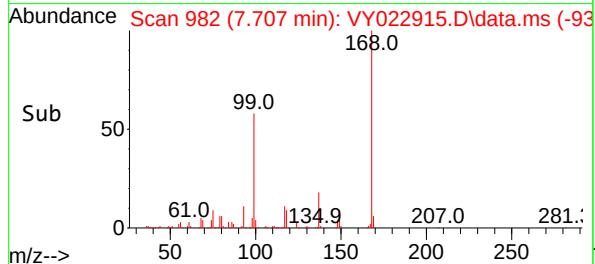
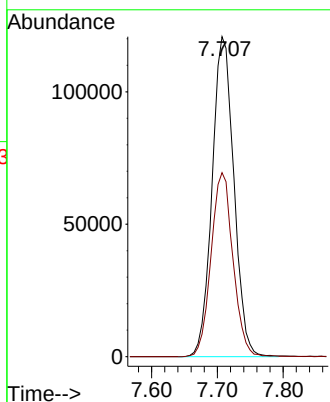
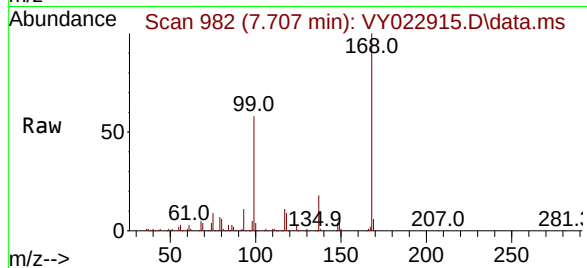




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022915.D
Acq: 02 Jul 2025 16:20

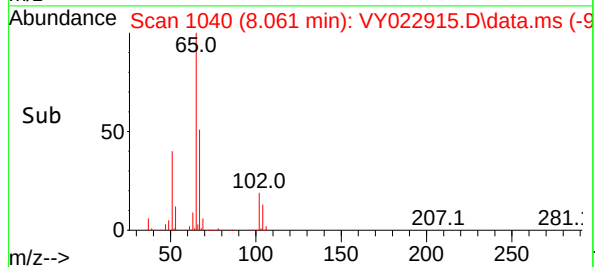
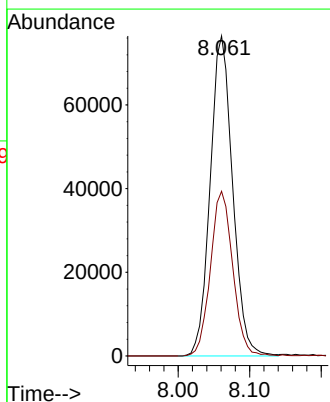
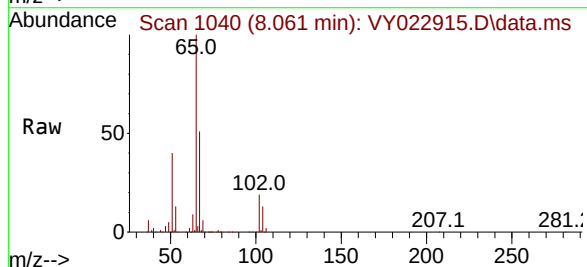
Instrument :
MSVOA_Y
ClientSampleId :
TP-63

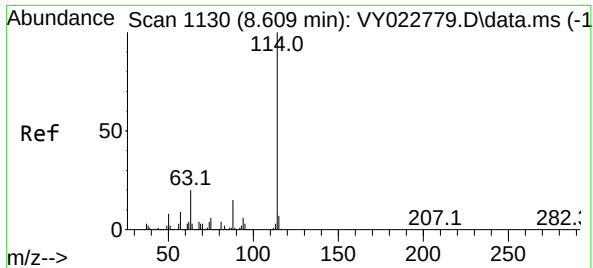
Tgt Ion:168 Resp: 278456
Ion Ratio Lower Upper
168 100
99 57.5 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 53.677 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022915.D
Acq: 02 Jul 2025 16:20

Tgt Ion: 65 Resp: 166821
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022915.D

Acq: 02 Jul 2025 16:20

Instrument :

MSVOA_Y

ClientSampleId :

TP-63

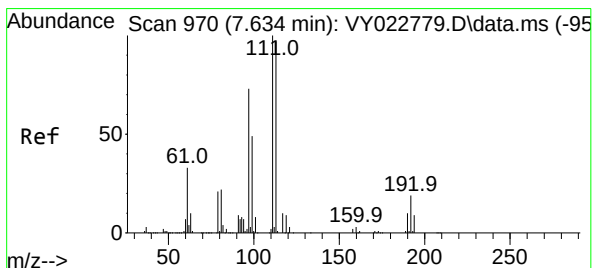
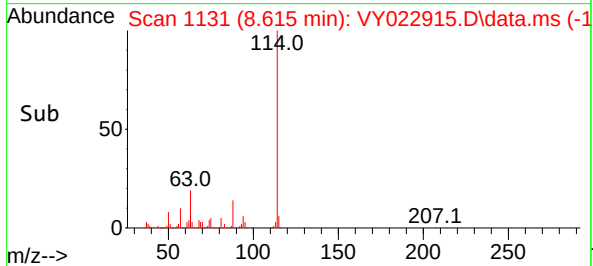
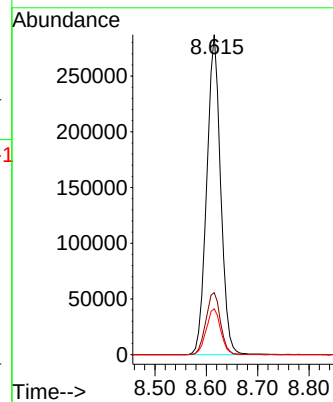
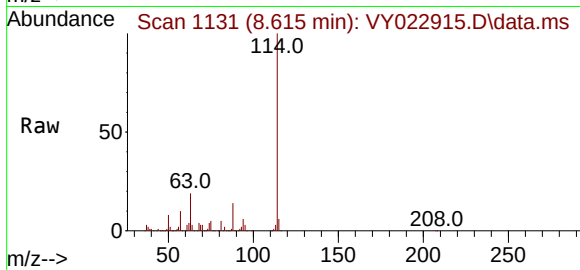
Tgt Ion:114 Resp: 537398

Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.8

88 14.4 0.0 27.8



#35

Dibromofluoromethane

Concen: 50.958 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022915.D

Acq: 02 Jul 2025 16:20

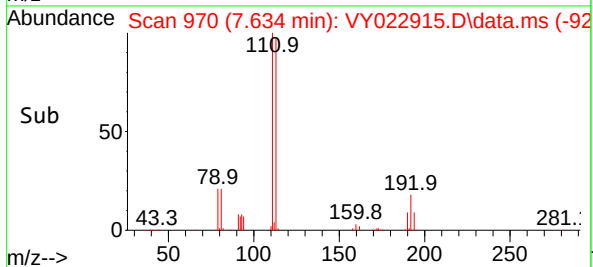
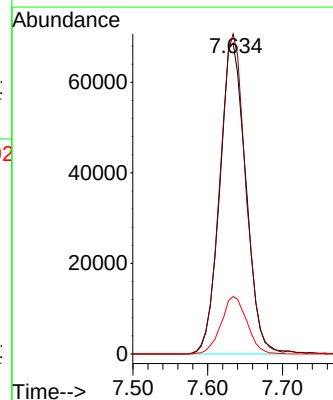
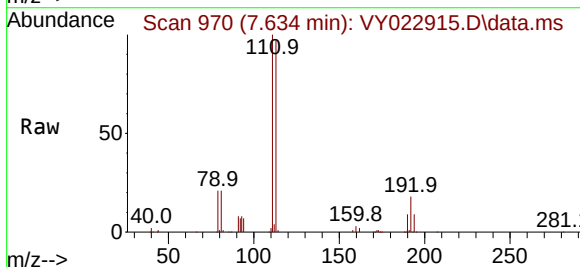
Tgt Ion:113 Resp: 166540

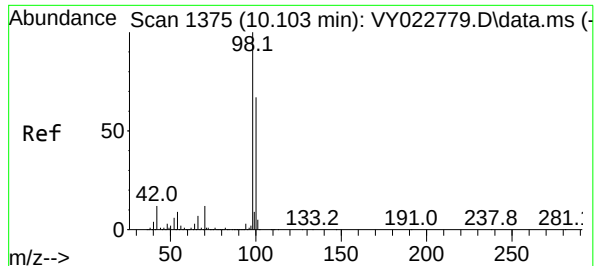
Ion Ratio Lower Upper

113 100

111 102.4 81.1 121.7

192 18.3 14.2 21.2





#50

Toluene-d8

Concen: 50.042 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022915.D

Acq: 02 Jul 2025 16:20

Instrument :

MSVOA_Y

ClientSampleId :

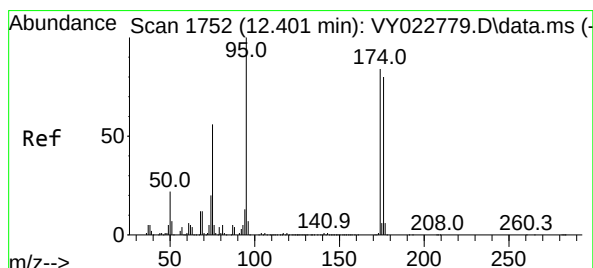
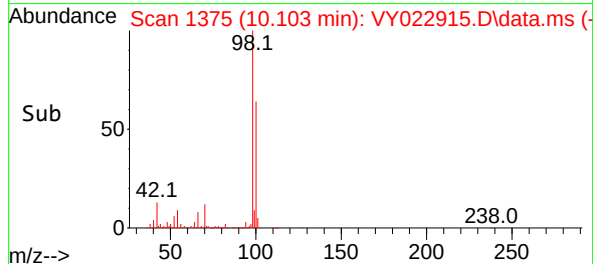
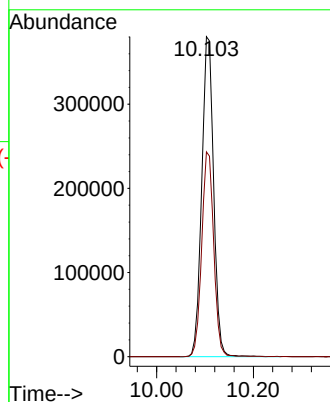
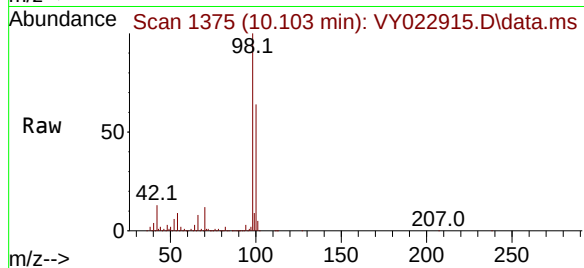
TP-63

Tgt Ion: 98 Resp: 648984

Ion Ratio Lower Upper

98 100

100 64.8 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 51.084 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022915.D

Acq: 02 Jul 2025 16:20

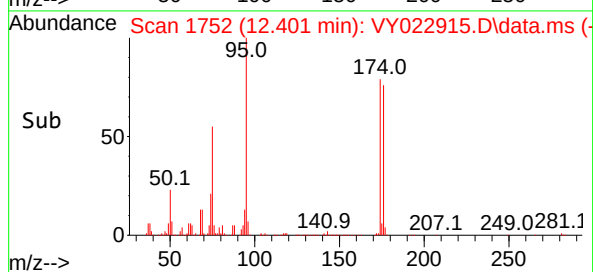
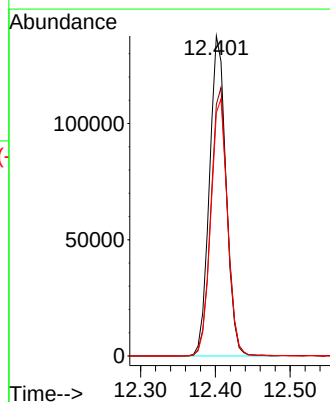
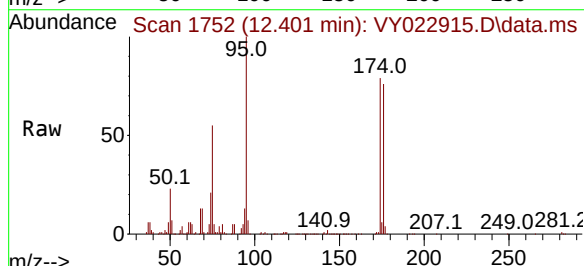
Tgt Ion: 95 Resp: 212971

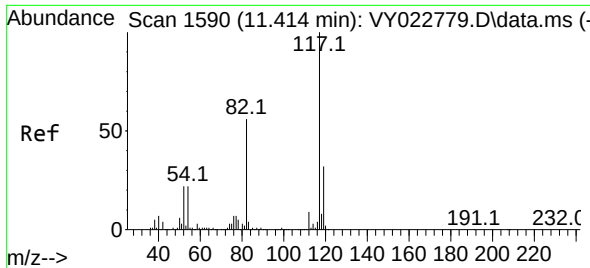
Ion Ratio Lower Upper

95 100

174 83.6 0.0 170.0

176 80.7 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022915.D

Acq: 02 Jul 2025 16:20

Instrument :

MSVOA_Y

ClientSampleId :

TP-63

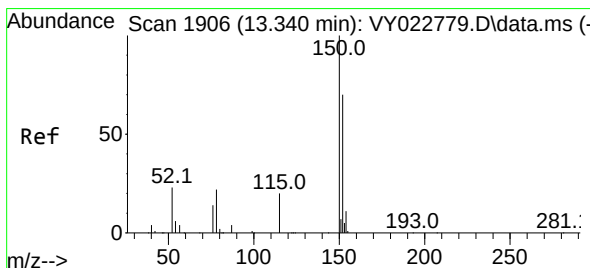
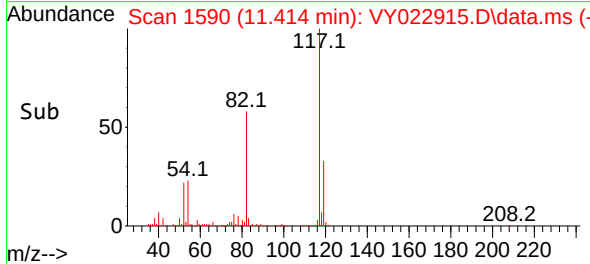
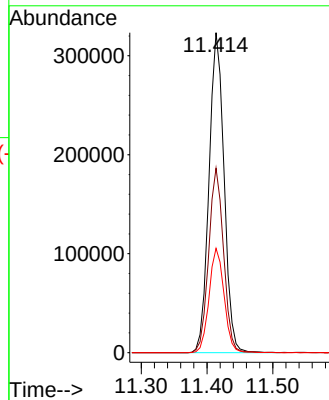
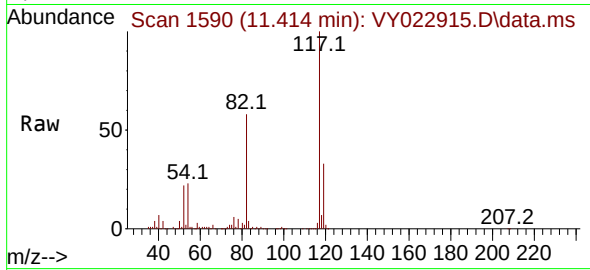
Tgt Ion:117 Resp: 515031

Ion Ratio Lower Upper

117 100

82 57.6 44.6 66.8

119 32.6 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022915.D

Acq: 02 Jul 2025 16:20

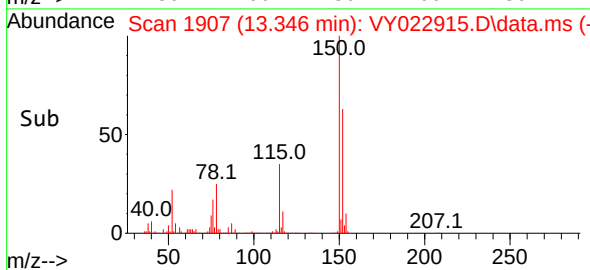
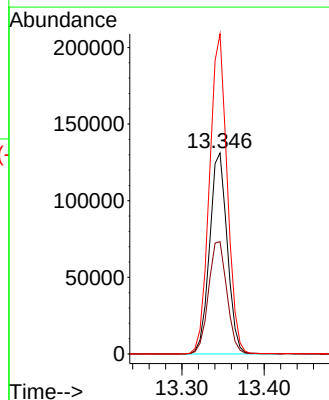
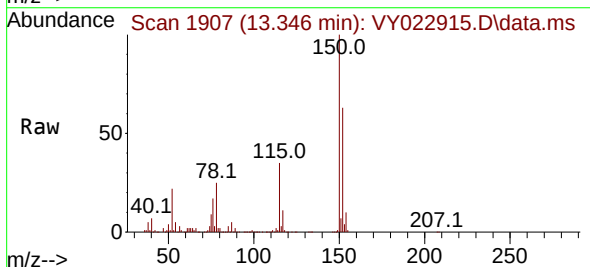
Tgt Ion:152 Resp: 195752

Ion Ratio Lower Upper

152 100

115 58.3 28.9 86.7

150 159.4 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022915.D
Acq On : 02 Jul 2025 16:20
Operator : SY/MD
Sample : Q2458-08
Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-63

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Title : SW846 8260

Signal : TIC: VY022915.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	464	474	486	rBV3	17737	61077	3.51%	0.672%
2	5.640	633	643	654	rVB5	9307	30725	1.77%	0.338%
3	7.634	960	970	976	rBV	231647	564679	32.48%	6.216%
4	7.707	976	982	996	rVB	373265	853001	49.06%	9.390%
5	8.061	1029	1040	1053	rBV	215801	480587	27.64%	5.290%
6	8.615	1122	1131	1142	rBV	662057	1273546	73.24%	14.019%
7	10.103	1368	1375	1384	rBV	1012624	1738791	100.00%	19.140%
8	11.414	1582	1590	1602	rBV	1023517	1647580	94.75%	18.136%
9	12.401	1743	1752	1767	rBV	728445	1170732	67.33%	12.887%
10	13.346	1898	1907	1916	rBV	804832	1263645	72.67%	13.910%

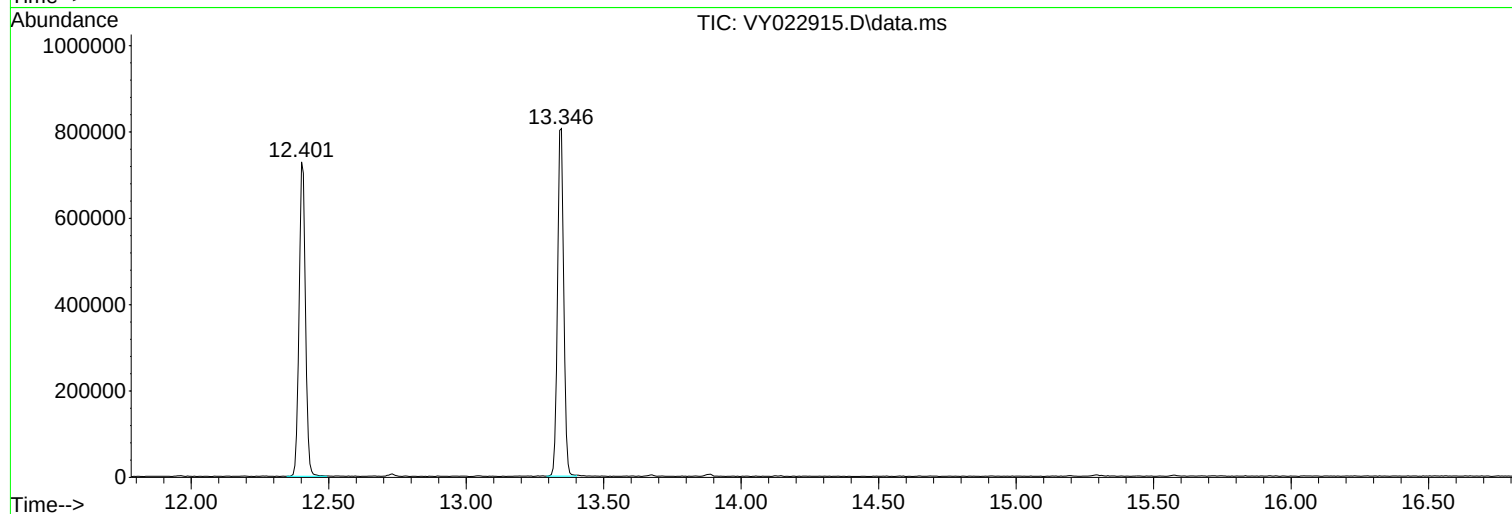
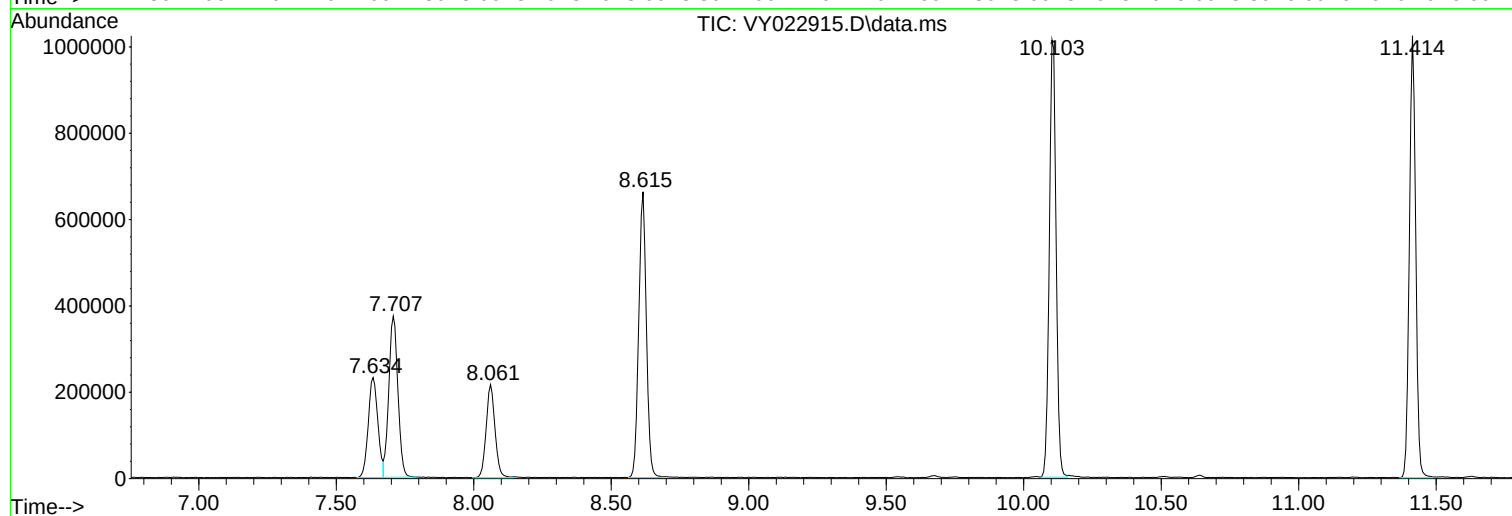
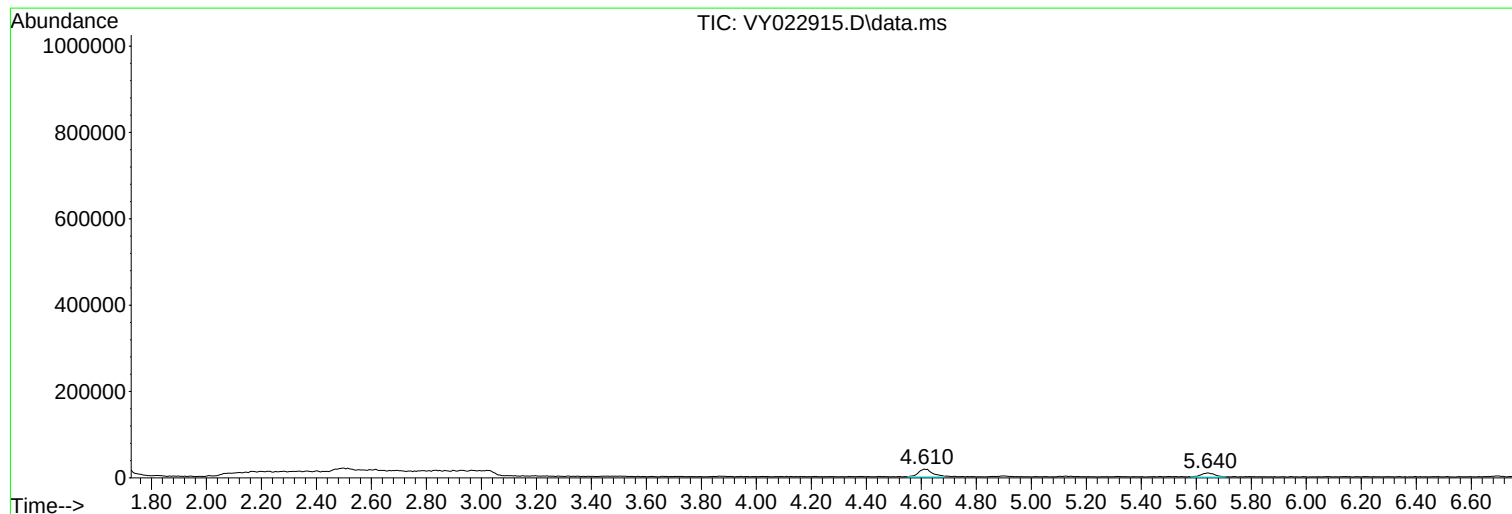
Sum of corrected areas: 9084363

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022915.D
Acq On : 02 Jul 2025 16:20
Operator : SY/MD
Sample : Q2458-08
Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-63

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022915.D
Acq On : 02 Jul 2025 16:20
Operator : SY/MD
Sample : Q2458-08
Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-63

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022915.D
Acq On : 02 Jul 2025 16:20
Operator : SY/MD
Sample : Q2458-08
Misc : 4.91g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-63

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.6
Sample Wt/Vol:	7.23 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022937.D	1	07/03/25 13:03	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.50	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.50	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.50	ug/Kg
74-83-9	Bromomethane	0.97	U	0.97	4.50	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.50	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	4.50	ug/Kg
75-35-4	1,1-Dichloroethene	0.90	U	0.90	4.50	ug/Kg
67-64-1	Acetone	73.3		4.30	22.6	ug/Kg
75-15-0	Carbon Disulfide	1.90	J	0.96	4.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.66	U	0.66	4.50	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.50	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.78	U	0.78	4.50	ug/Kg
75-34-3	1,1-Dichloroethane	0.72	U	0.72	4.50	ug/Kg
110-82-7	Cyclohexane	0.71	U	0.71	4.50	ug/Kg
78-93-3	2-Butanone	14.1	J	5.90	22.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.88	U	0.88	4.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.68	U	0.68	4.50	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.50	ug/Kg
67-66-3	Chloroform	0.76	U	0.76	4.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.84	U	0.84	4.50	ug/Kg
108-87-2	Methylcyclohexane	0.82	U	0.82	4.50	ug/Kg
71-43-2	Benzene	11.7		0.71	4.50	ug/Kg
107-06-2	1,2-Dichloroethane	0.71	U	0.71	4.50	ug/Kg
79-01-6	Trichloroethene	0.73	U	0.73	4.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.82	U	0.82	4.50	ug/Kg
75-27-4	Bromodichloromethane	0.70	U	0.70	4.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.6	ug/Kg
108-88-3	Toluene	0.70	U	0.70	4.50	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.6
Sample Wt/Vol:	7.23	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :	ID : 0.25		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022937.D	1	07/03/25 13:03	VY070325

[illegible]

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.6
Sample Wt/Vol:	7.23 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022937.D	1	07/03/25 13:03	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000106-97-8	Butane	7.60	J		2.20	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022937.D
 Acq On : 03 Jul 2025 13:03
 Operator : SY/MD
 Sample : Q2458-09
 Misc : 7.23g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-59

Quant Time: Jul 04 03:18:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

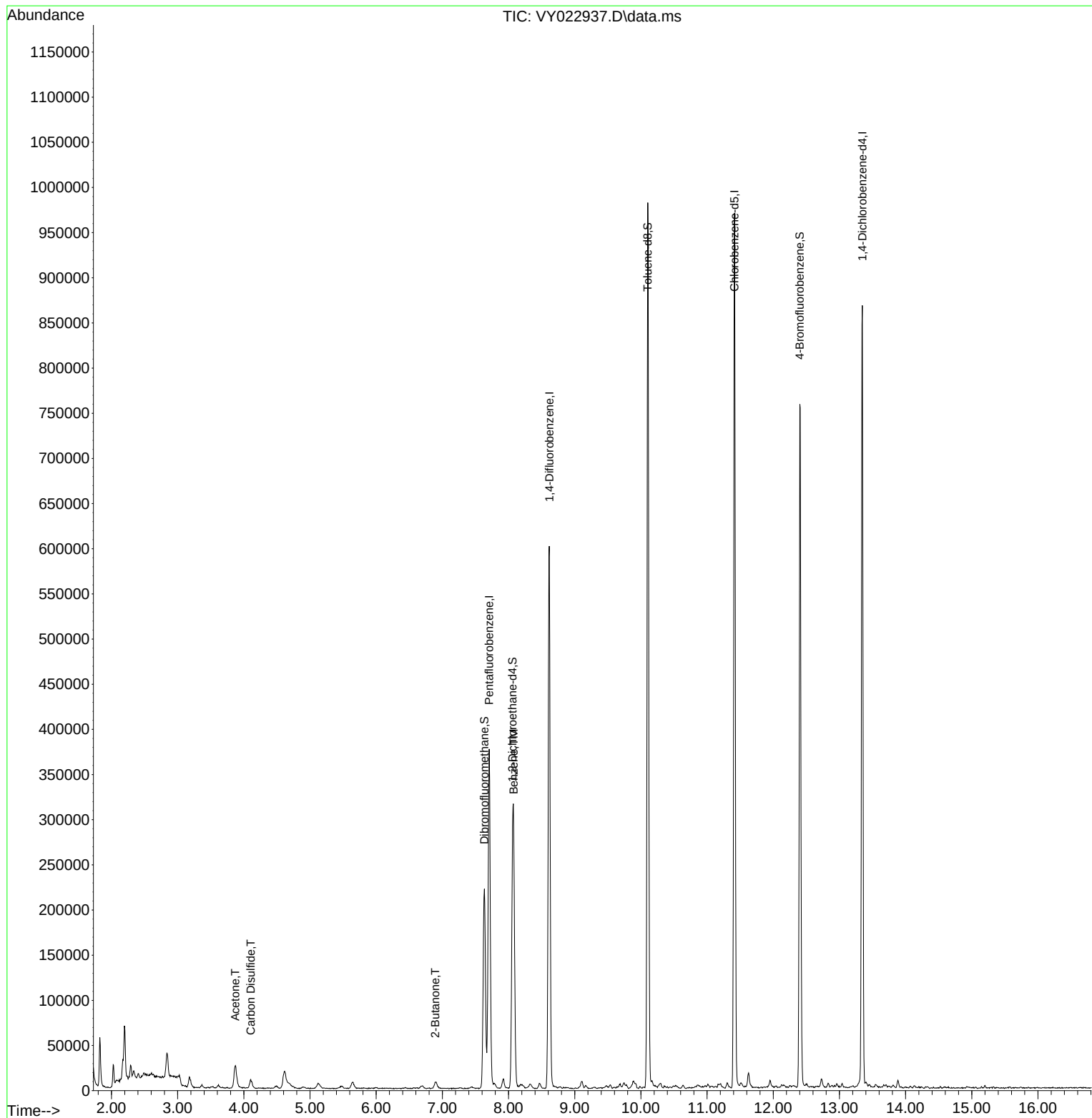
Internal Standards						
1) Pentafluorobenzene	7.707	168	268585	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	499539	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	495456	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	213523	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	161010	53.712	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 107.420%	
35) Dibromofluoromethane	7.634	113	157764	51.931	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 103.860%	
50) Toluene-d8	10.103	98	621695	51.571	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.140%	
62) 4-Bromofluorobenzene	12.402	95	216375	55.834	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 111.660%	
Target Compounds						
					Qvalue	
16) Acetone	3.873	43	46020	81.224	ug/l	97
17) Carbon Disulfide	4.104	76	18098	2.061	ug/l	99
25) 2-Butanone	6.890	43	12916	15.663	ug/l	93
40) Benzene	8.079	78	183825	12.984	ug/l	100

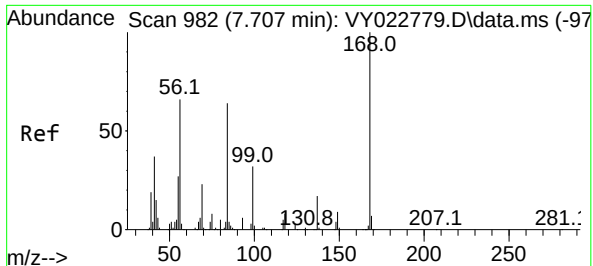
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022937.D
Acq On : 03 Jul 2025 13:03
Operator : SY/MD
Sample : Q2458-09
Misc : 7.23g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-59

Quant Time: Jul 04 03:18:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

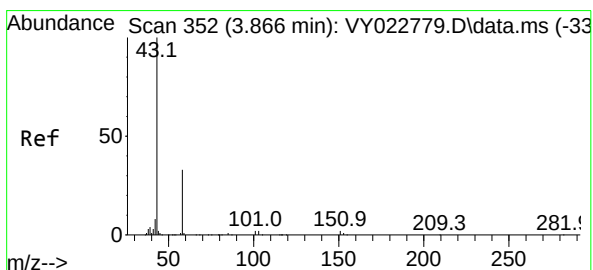
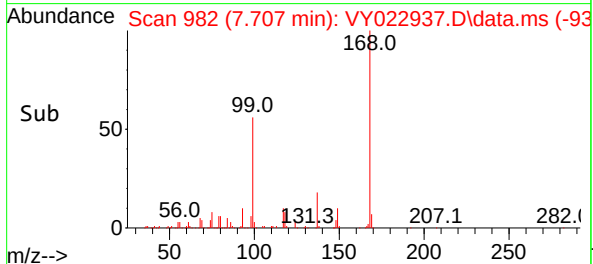
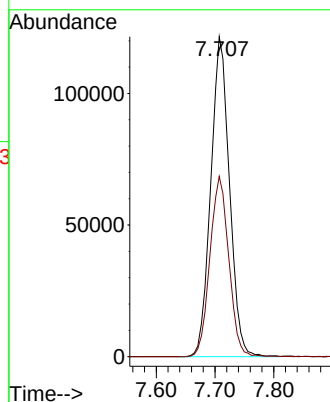
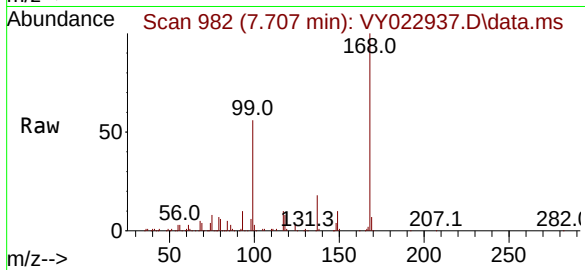




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022937.D
Acq: 03 Jul 2025 13:03

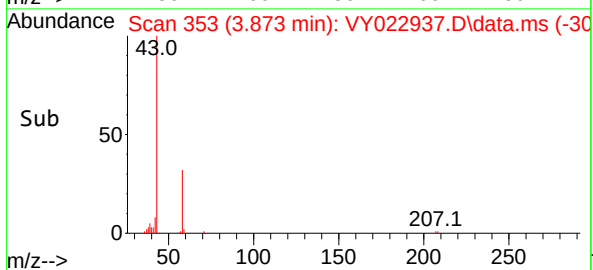
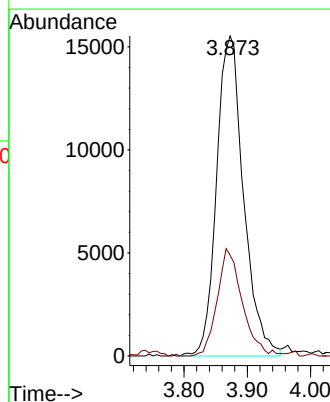
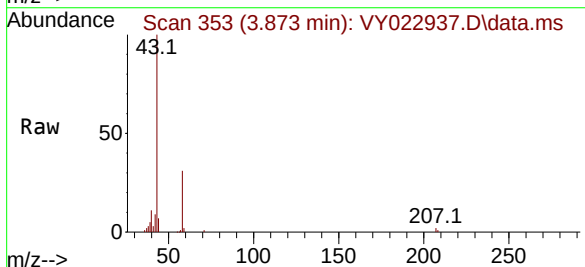
Instrument :
MSVOA_Y
ClientSampleId :
TP-59

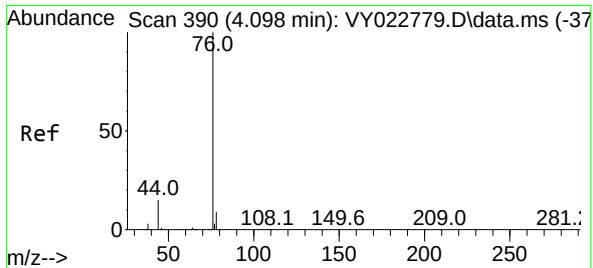
Tgt Ion:168 Resp: 268585
Ion Ratio Lower Upper
168 100
99 56.4 44.3 66.5



#16
Acetone
Concen: 81.224 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022937.D
Acq: 03 Jul 2025 13:03

Tgt Ion: 43 Resp: 46020
Ion Ratio Lower Upper
43 100
58 31.5 24.0 36.0





#17

Carbon Disulfide

Concen: 2.061 ug/l

RT: 4.104 min Scan# 391

Delta R.T. -0.006 min

Lab File: VY022937.D

Acq: 03 Jul 2025 13:03

Instrument :

MSVOA_Y

ClientSampleId :

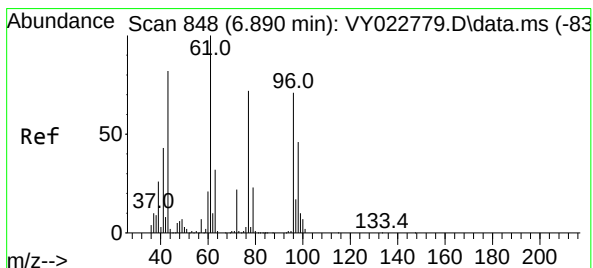
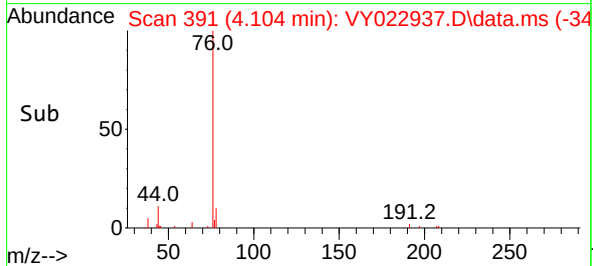
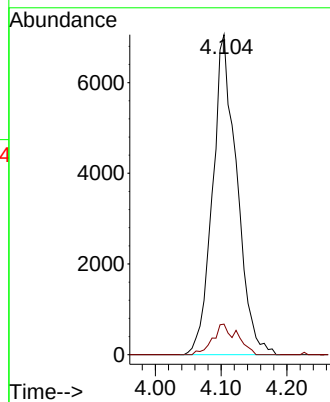
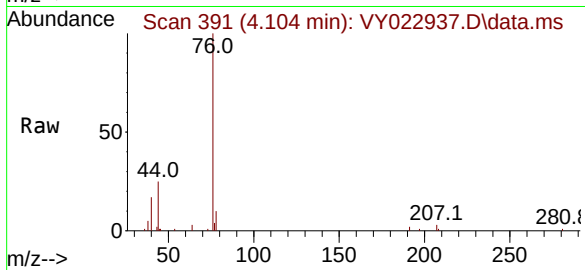
TP-59

Tgt Ion: 76 Resp: 18098

Ion Ratio Lower Upper

76 100

78 9.6 7.4 11.2



#25

2-Butanone

Concen: 15.663 ug/l

RT: 6.890 min Scan# 848

Delta R.T. -0.012 min

Lab File: VY022937.D

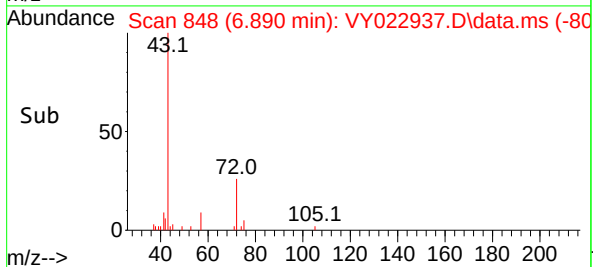
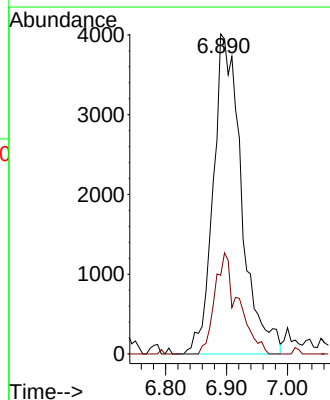
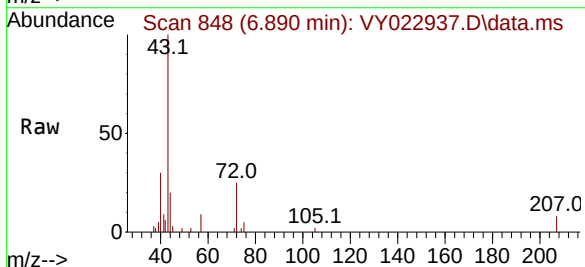
Acq: 03 Jul 2025 13:03

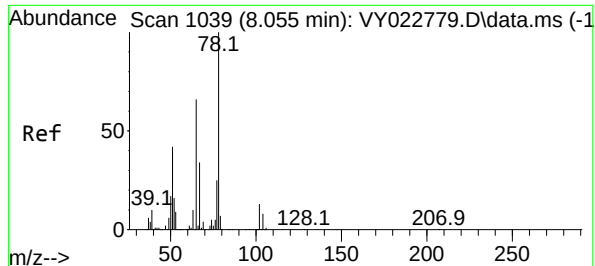
Tgt Ion: 43 Resp: 12916

Ion Ratio Lower Upper

43 100

72 24.6 22.9 34.3





#33

1,2-Dichloroethane-d4

Concen: 53.712 ug/l

RT: 8.061 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY022937.D

Acq: 03 Jul 2025 13:03

Instrument :

MSVOA_Y

ClientSampleId :

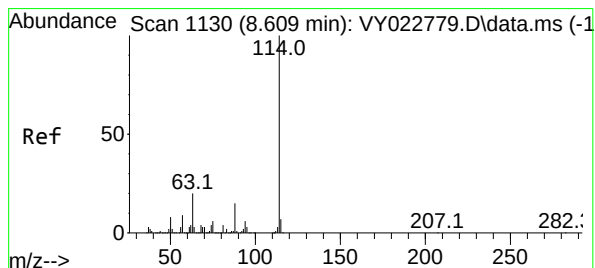
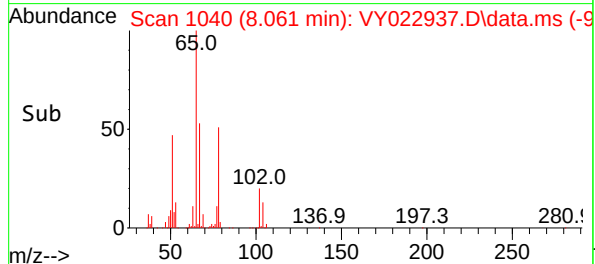
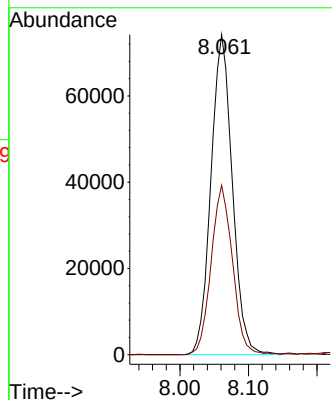
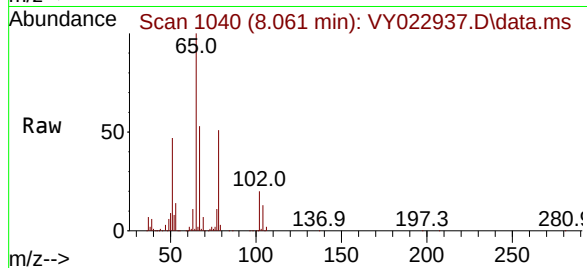
TP-59

Tgt Ion: 65 Resp: 161010

Ion Ratio Lower Upper

65 100

67 52.8 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022937.D

Acq: 03 Jul 2025 13:03

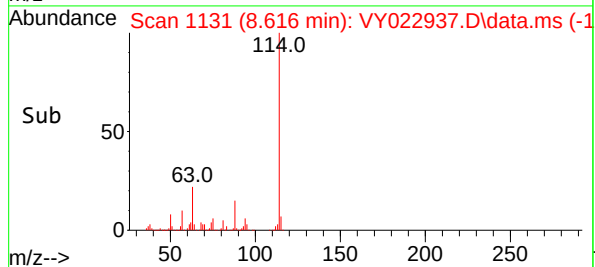
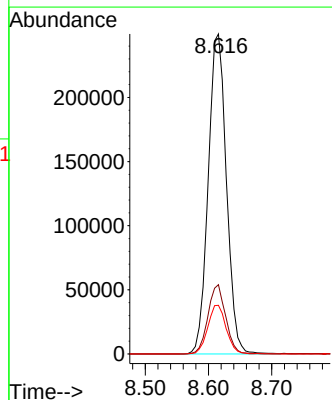
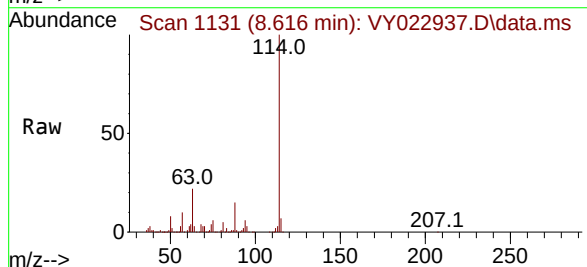
Tgt Ion:114 Resp: 499539

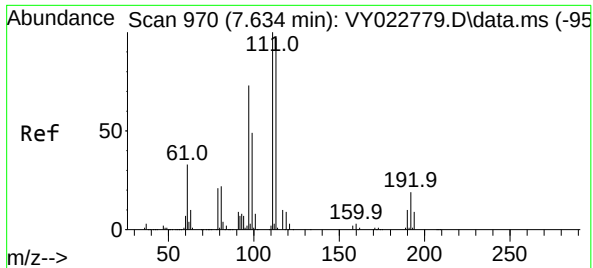
Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.8

88 15.2 0.0 27.8





#35

Dibromofluoromethane

Concen: 51.931 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY022937.D

Acq: 03 Jul 2025 13:03

Instrument :

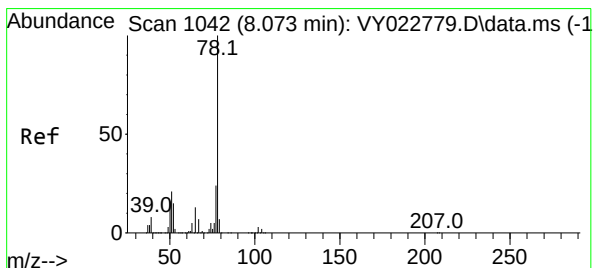
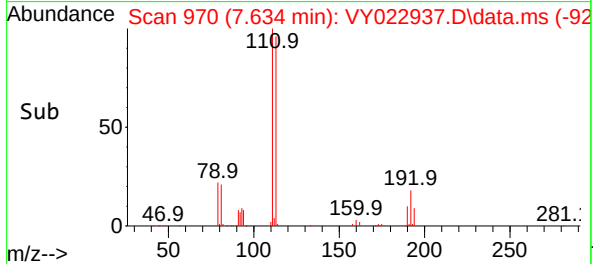
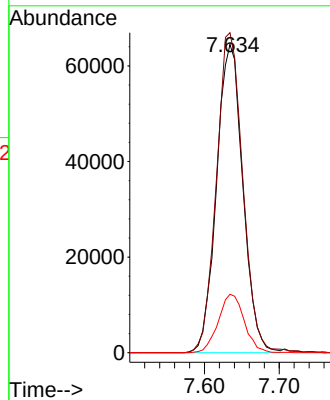
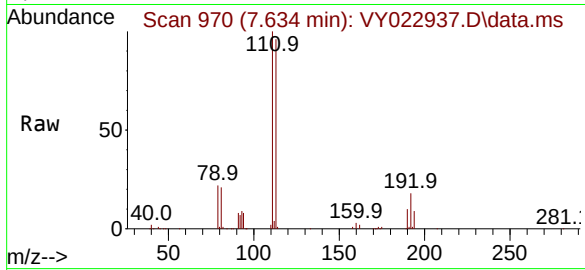
MSVOA_Y

ClientSampleId :

TP-59

Tgt Ion:113 Resp: 157764

Ion	Ratio	Lower	Upper
113	100		
111	104.5	81.1	121.7
192	18.8	14.2	21.2



#40

Benzene

Concen: 12.984 ug/l

RT: 8.079 min Scan# 1043

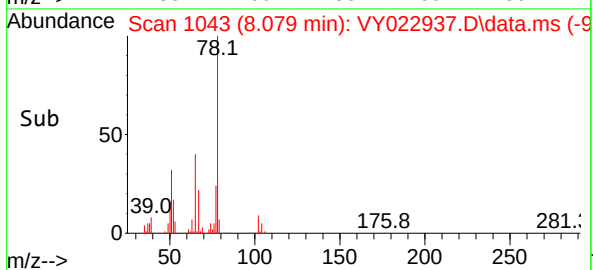
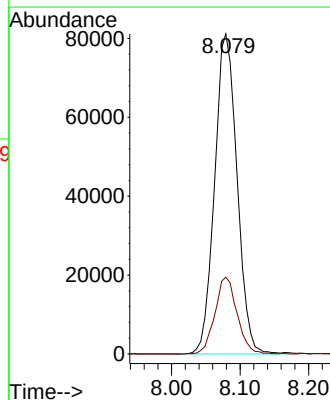
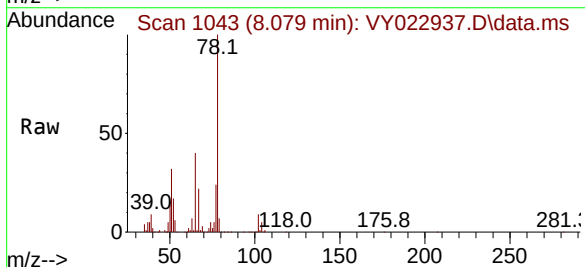
Delta R.T. -0.006 min

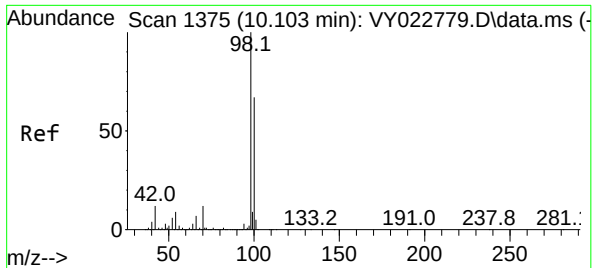
Lab File: VY022937.D

Acq: 03 Jul 2025 13:03

Tgt Ion: 78 Resp: 183825

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.3	28.9

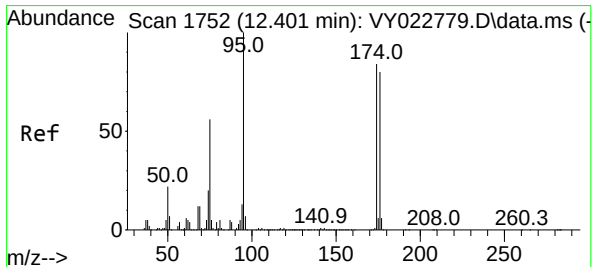
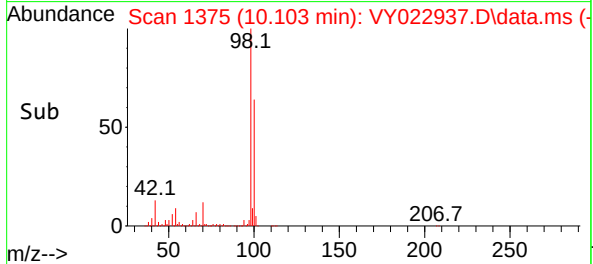
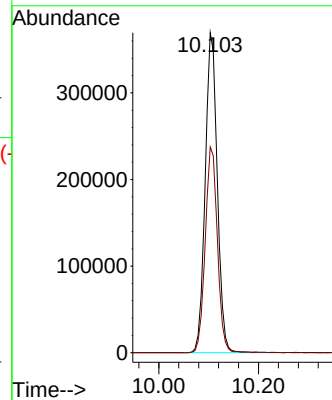
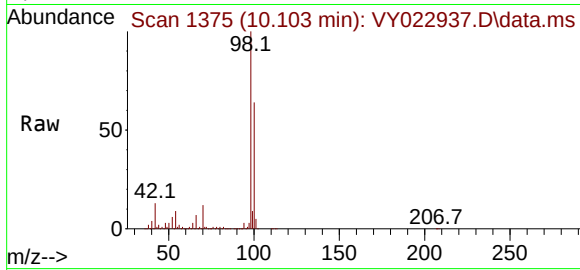




#50
Toluene-d8
Concen: 51.571 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022937.D
Acq: 03 Jul 2025 13:03

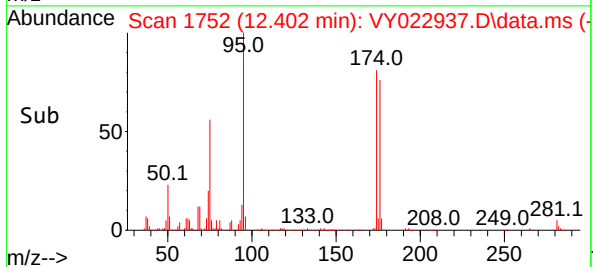
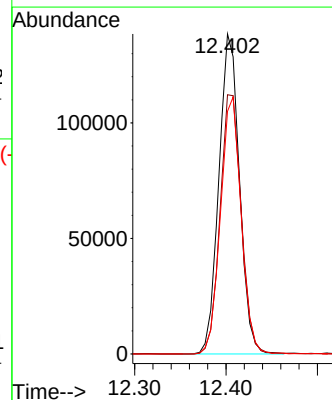
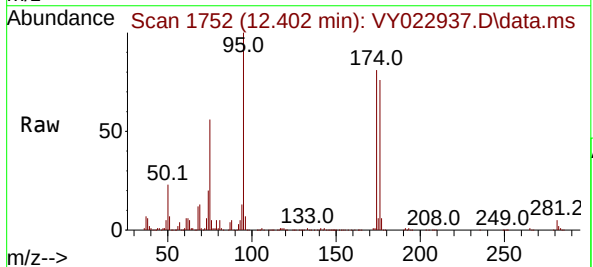
Instrument :
MSVOA_Y
ClientSampleId :
TP-59

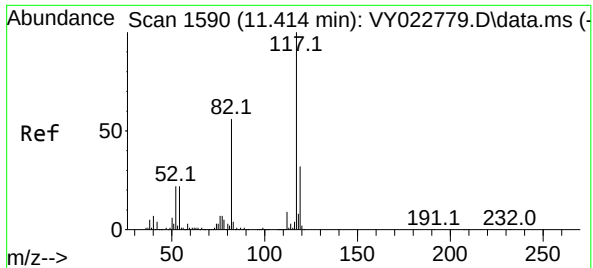
Tgt Ion: 98 Resp: 621695
Ion Ratio Lower Upper
98 100
100 64.7 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 55.834 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022937.D
Acq: 03 Jul 2025 13:03

Tgt Ion: 95 Resp: 216375
Ion Ratio Lower Upper
95 100
174 83.6 0.0 170.0
176 80.7 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022937.D

Acq: 03 Jul 2025 13:03

Instrument :

MSVOA_Y

ClientSampleId :

TP-59

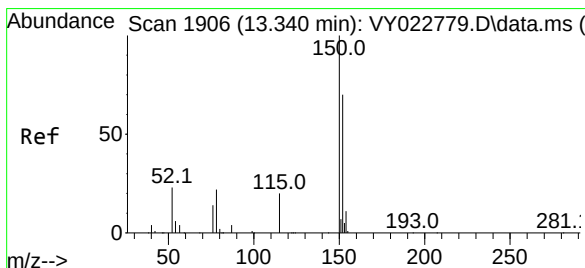
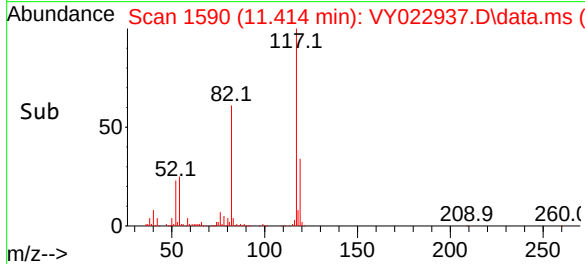
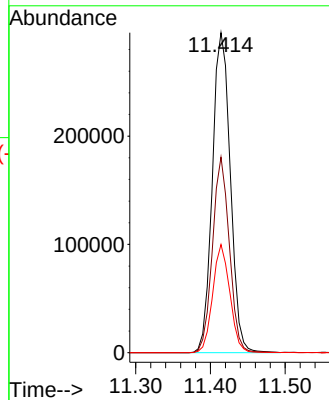
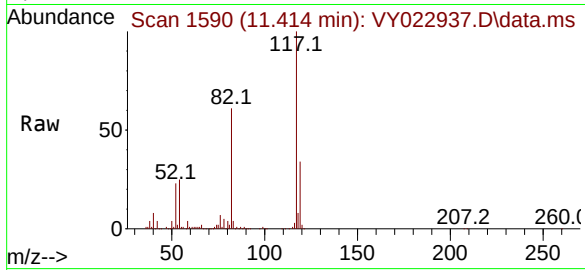
Tgt Ion:117 Resp: 495456

Ion Ratio Lower Upper

117 100

82 61.1 44.6 66.8

119 33.8 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022937.D

Acq: 03 Jul 2025 13:03

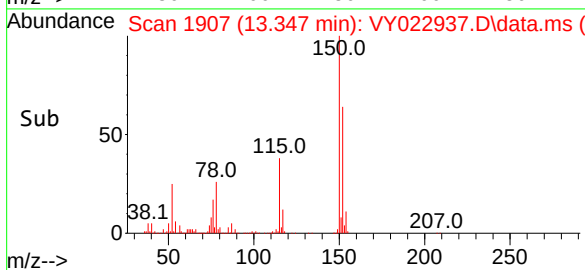
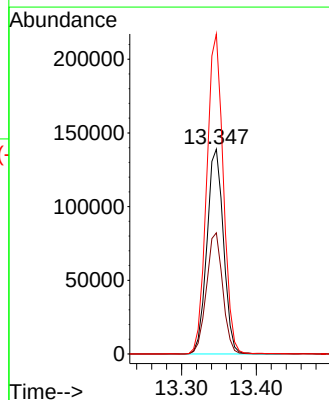
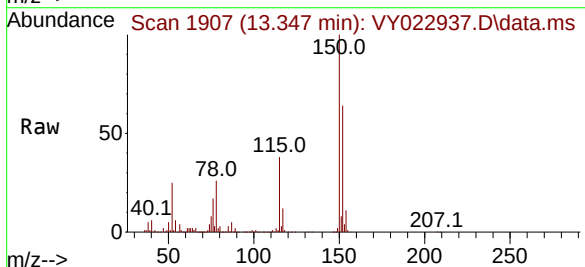
Tgt Ion:152 Resp: 213523

Ion Ratio Lower Upper

152 100

115 58.3 28.9 86.7

150 156.3 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022937.D
 Acq On : 03 Jul 2025 13:03
 Operator : SY/MD
 Sample : Q2458-09
 Misc : 7.23g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-59

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Title : SW846 8260

Signal : TIC: VY022937.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	12	17	25	rVB2	54158	79544	4.75%	0.789%
2	2.025	44	50	54	rBV	25171	38273	2.29%	0.380%
3	2.196	66	78	84	rBV2	62050	139290	8.32%	1.381%
4	2.288	90	93	97	rBV2	13340	20220	1.21%	0.201%
5	2.836	177	183	191	rBV3	26241	57833	3.45%	0.574%
6	3.178	233	239	248	rBV2	11331	27177	1.62%	0.270%
7	3.873	343	353	369	rVB2	24898	75401	4.50%	0.748%
8	4.616	463	475	494	rBV4	18980	85222	5.09%	0.845%
9	5.122	545	558	570	rBV8	5946	22036	1.32%	0.219%
10	5.647	633	644	653	rBV6	7425	23733	1.42%	0.235%
11	7.634	956	970	976	rBV	221345	550792	32.89%	5.462%
12	7.707	976	982	992	rVB	371769	826493	49.35%	8.196%
13	7.921	1009	1017	1024	rBV3	10528	24733	1.48%	0.245%
14	8.073	1031	1042	1056	rBV2	314951	865921	51.70%	8.587%
15	8.616	1122	1131	1141	rBV	600092	1202416	71.80%	11.924%
16	9.103	1202	1211	1217	rBV7	7706	19984	1.19%	0.198%
17	9.890	1328	1340	1349	rBV9	8321	30848	1.84%	0.306%
18	10.103	1368	1375	1384	rBV	979911	1674757	100.00%	16.608%
19	11.414	1582	1590	1602	rBV	968974	1593026	95.12%	15.798%
20	11.627	1619	1625	1634	rVB2	16011	35587	2.12%	0.353%
21	12.402	1745	1752	1765	rBV2	756151	1296311	77.40%	12.855%
22	12.731	1800	1806	1813	rVB10	9195	18986	1.13%	0.188%
23	13.347	1888	1907	1913	rBV	865648	1375242	82.12%	13.638%

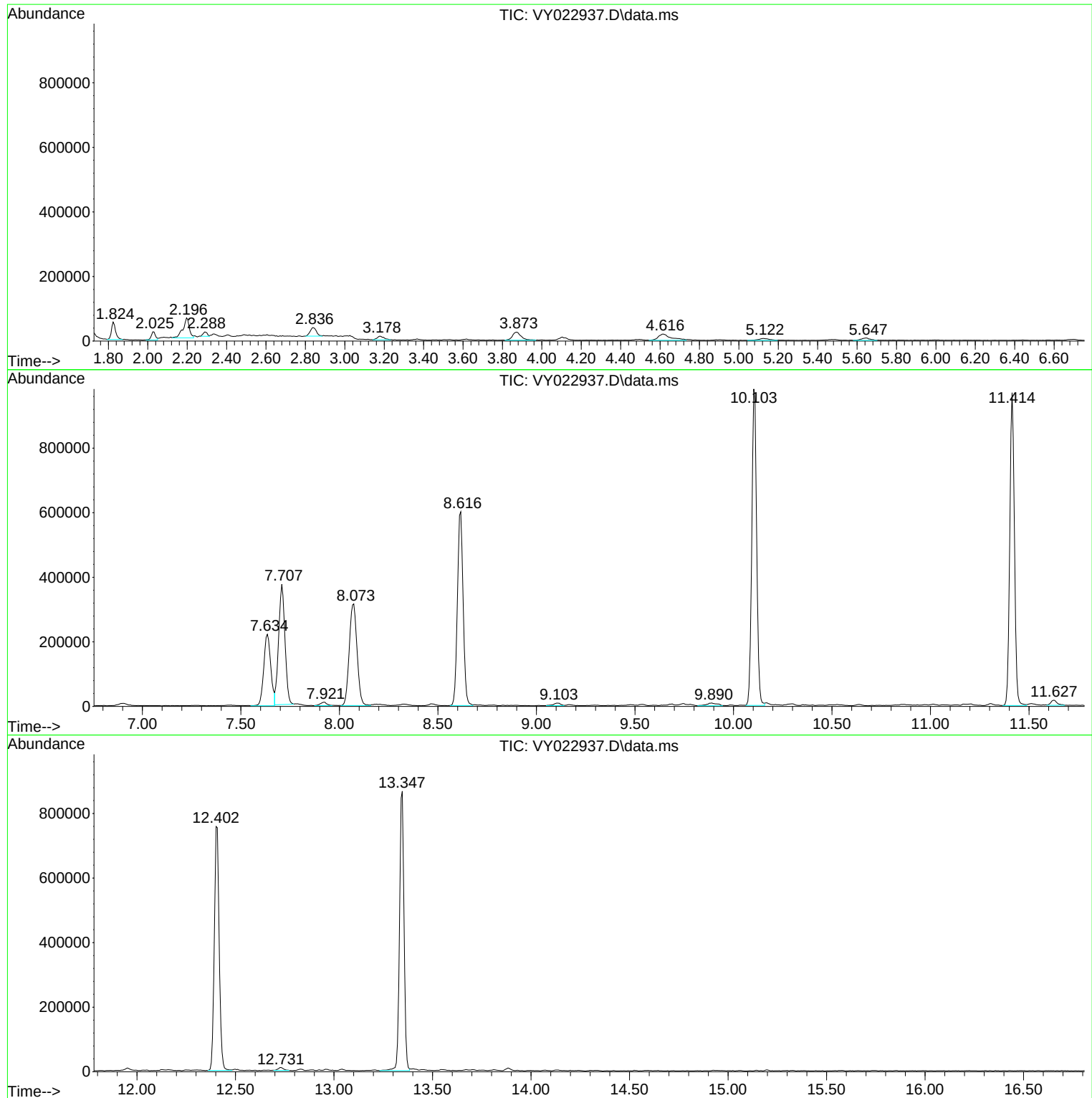
Sum of corrected areas: 10083825

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022937.D
Acq On : 03 Jul 2025 13:03
Operator : SY/MD
Sample : Q2458-09
Misc : 7.23g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-59

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022937.D
Acq On : 03 Jul 2025 13:03
Operator : SY/MD
Sample : Q2458-09
Misc : 7.23g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-59

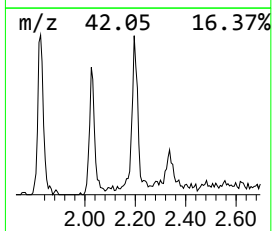
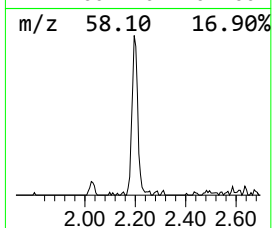
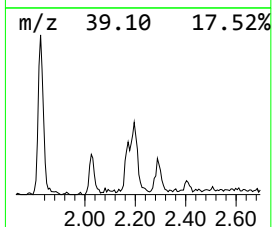
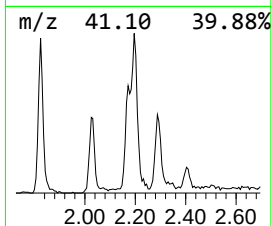
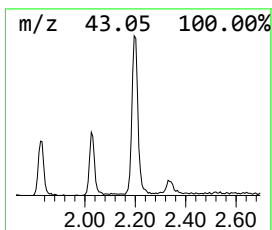
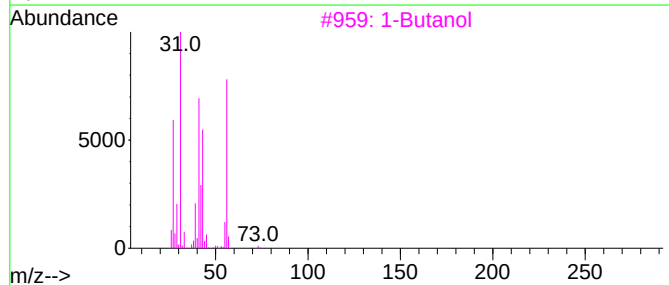
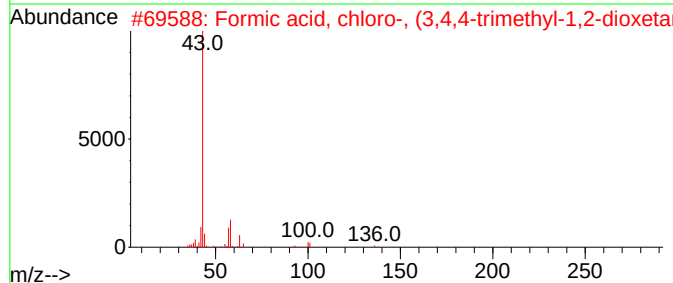
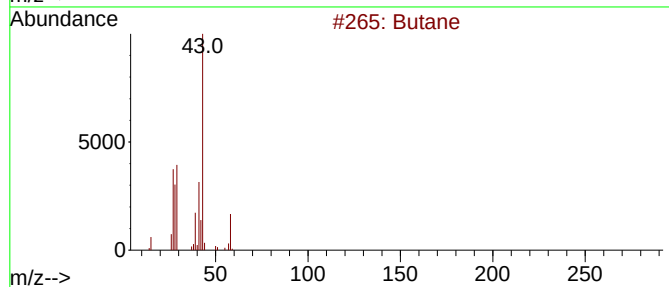
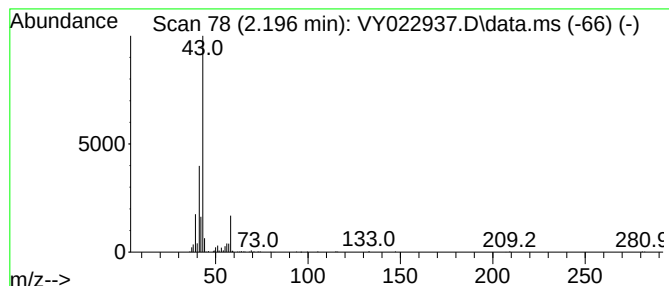
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.196	8.43 ug/l	139290	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane	58	C4H10	000106-97-8	64
2			Formic acid, chloro-, (3,4,4-tri...	194	C7H11ClO4	107323-92-2	36
3			1-Butanol	74	C4H10O	000071-36-3	9
4			Hydroperoxide, 1-methylethyl	76	C3H8O2	003031-75-2	9
5			Dimethadione	129	C5H7NO3	000695-53-4	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022937.D
Acq On : 03 Jul 2025 13:03
Operator : SY/MD
Sample : Q2458-09
Misc : 7.23g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-59

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane	2.196	8.4	ug/l	139290	1	7.707	826493	50.0

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046872.D	1	07/03/25 09:35	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046872.D	1	07/03/25 09:35	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	49.8		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	397000	5.556			
540-36-3	1,4-Difluorobenzene	689000	6.763			
3114-55-4	Chlorobenzene-d5	629000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	318000	12.018			

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046872.D	1	07/03/25 09:35	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046872.D
 Acq On : 03 Jul 2025 09:35
 Operator : JC/MD
 Sample : Q2458-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-06272025

Quant Time: Jul 04 01:26:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	397171	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	689071	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	628783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	317895	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	265228	50.548	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	101.100%
35) Dibromofluoromethane	5.391	113	223276	47.735	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.460%
50) Toluene-d8	8.647	98	821236	49.763	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.520%
62) 4-Bromofluorobenzene	11.079	95	313594	49.998	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	100.000%

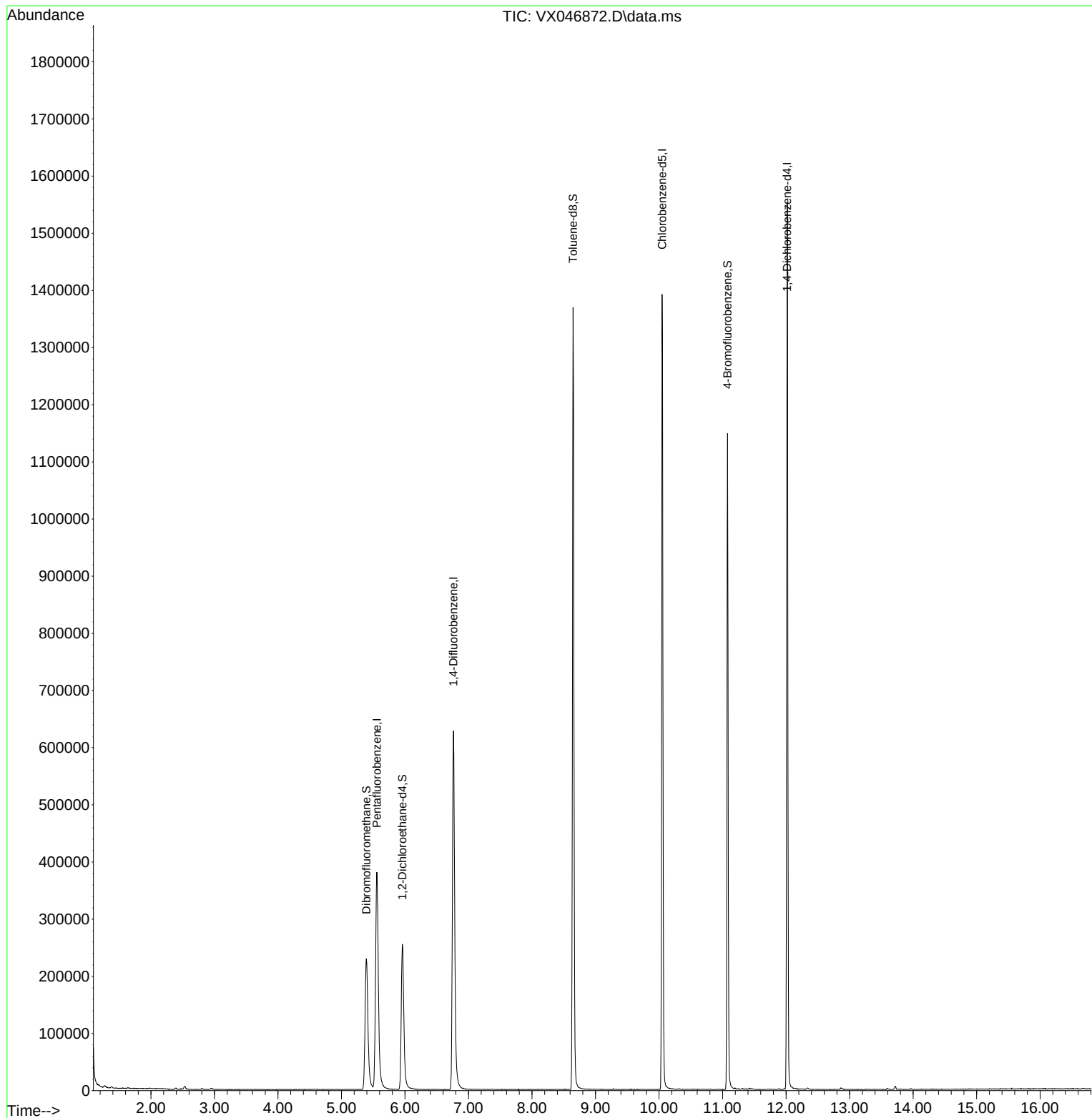
Target Compounds	Qvalue

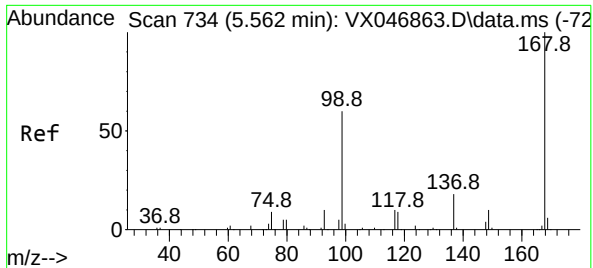
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046872.D
Acq On : 03 Jul 2025 09:35
Operator : JC/MD
Sample : Q2458-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-06272025

Quant Time: Jul 04 01:26:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

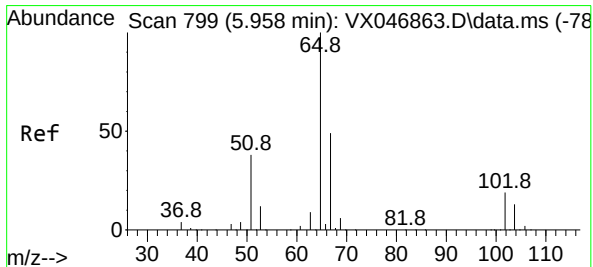
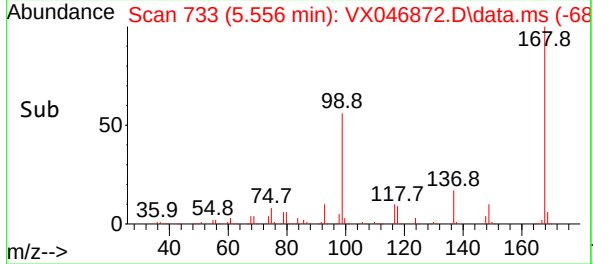
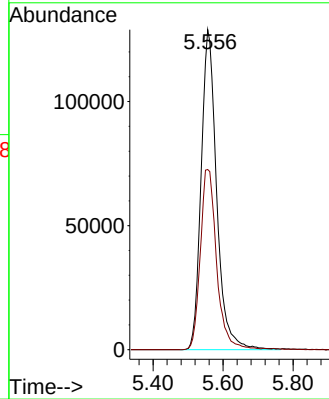
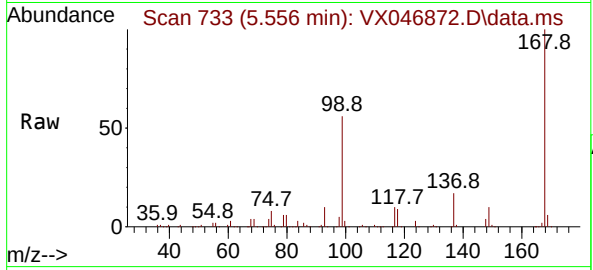




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 713
Delta R.T. -0.006 min
Lab File: VX046872.D
Acq: 03 Jul 2025 09:35

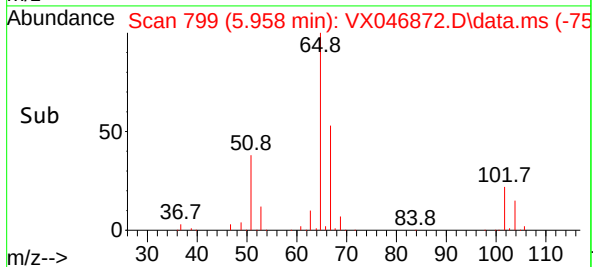
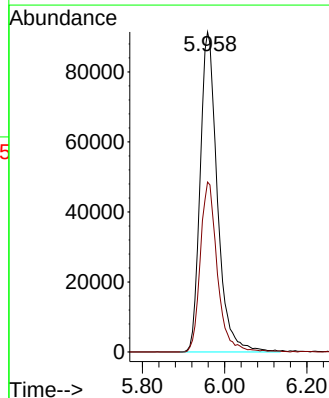
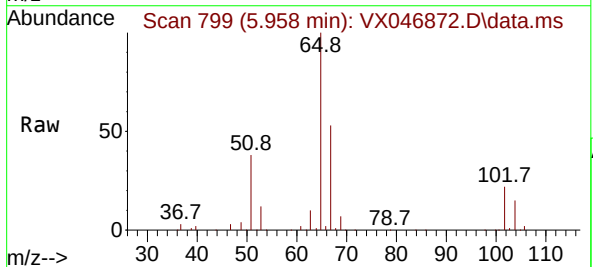
Instrument :
MSVOA_X
ClientSampleId :
FB-06272025

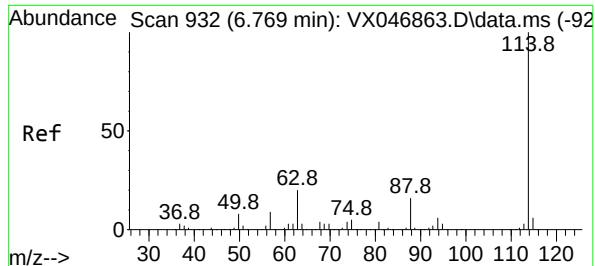
Tgt Ion:168 Resp: 397171
Ion Ratio Lower Upper
168 100
99 56.3 48.8 73.2



#33
1,2-Dichloroethane-d4
Concen: 50.548 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX046872.D
Acq: 03 Jul 2025 09:35

Tgt Ion: 65 Resp: 265228
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX046872.D

Acq: 03 Jul 2025 09:35

Instrument :

MSVOA_X

ClientSampleId :

FB-06272025

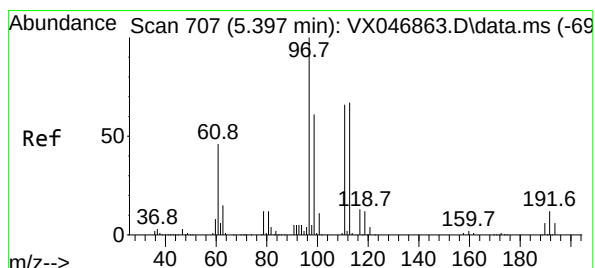
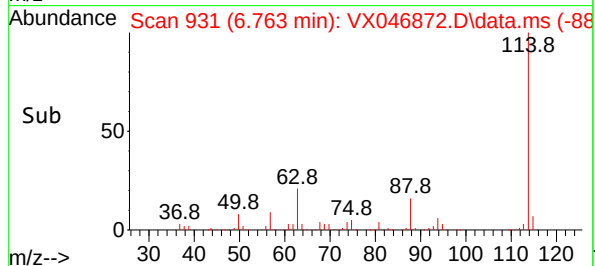
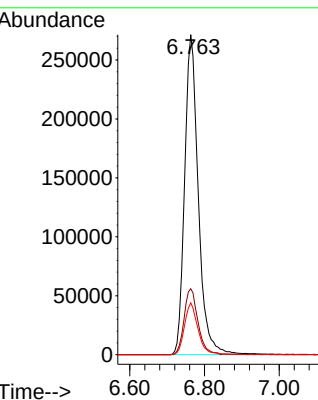
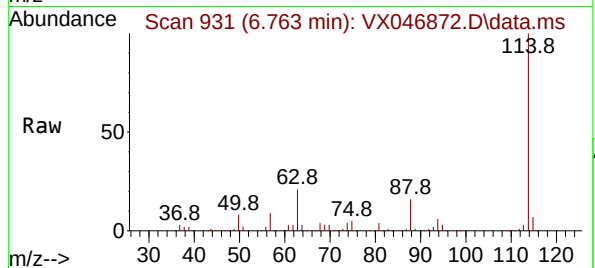
Tgt Ion:114 Resp: 689071

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.4

88 16.2 0.0 31.0



#35

Dibromofluoromethane

Concen: 47.735 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046872.D

Acq: 03 Jul 2025 09:35

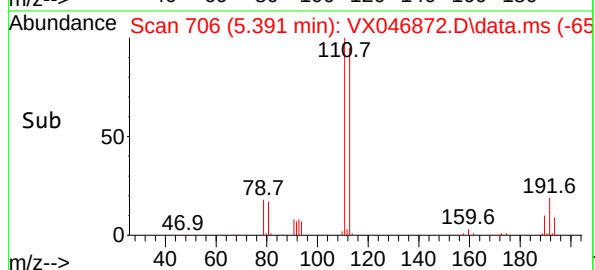
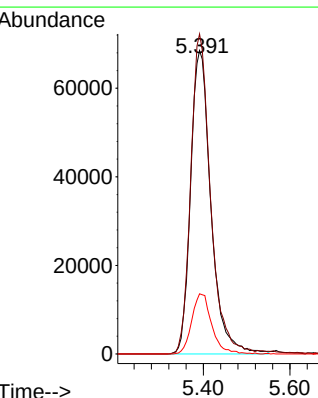
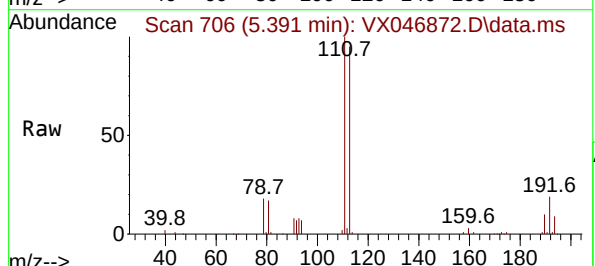
Tgt Ion:113 Resp: 223276

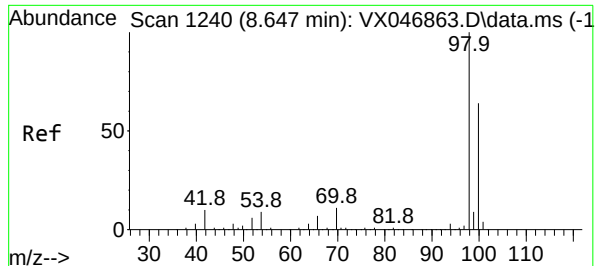
Ion Ratio Lower Upper

113 100

111 102.7 81.2 121.8

192 19.5 15.3 22.9





#50

Toluene-d8

Concen: 49.763 ug/l

RT: 8.647 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX046872.D

Acq: 03 Jul 2025 09:35

Instrument :

MSVOA_X

ClientSampleId :

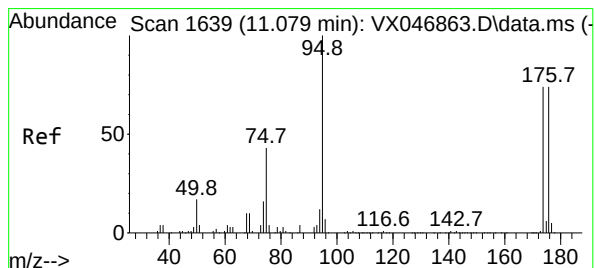
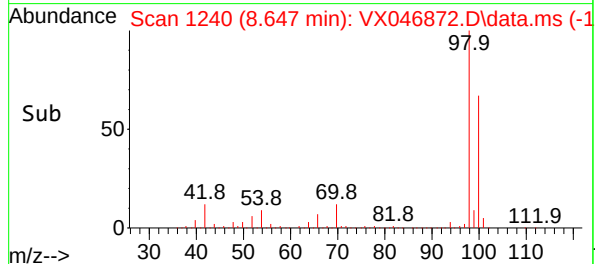
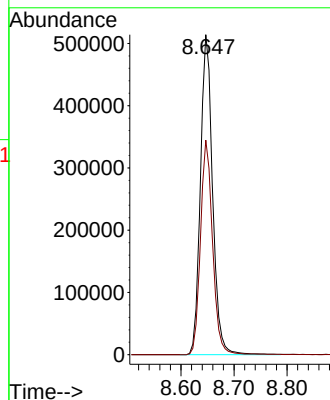
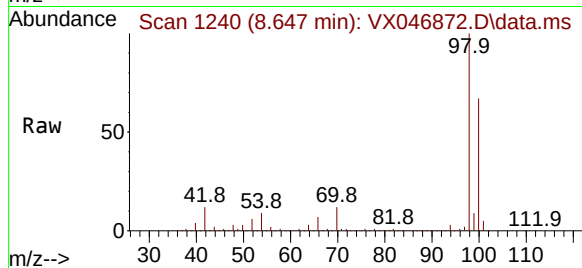
FB-06272025

Tgt Ion: 98 Resp: 821236

Ion Ratio Lower Upper

98 100

100 66.8 53.0 79.6



#62

4-Bromofluorobenzene

Concen: 49.998 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046872.D

Acq: 03 Jul 2025 09:35

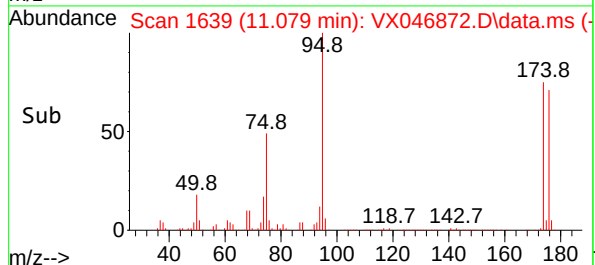
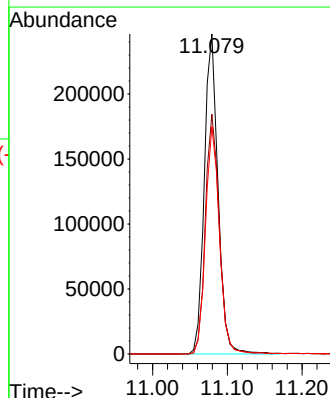
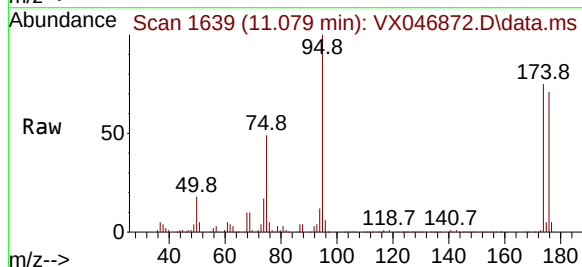
Tgt Ion: 95 Resp: 313594

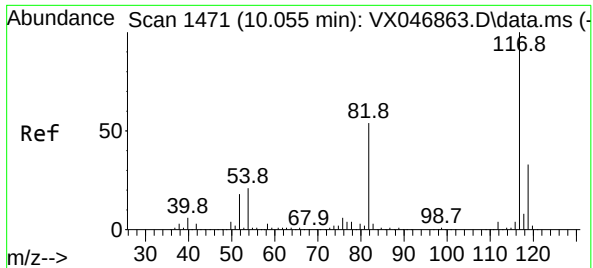
Ion Ratio Lower Upper

95 100

174 76.5 0.0 152.0

176 72.3 0.0 145.2

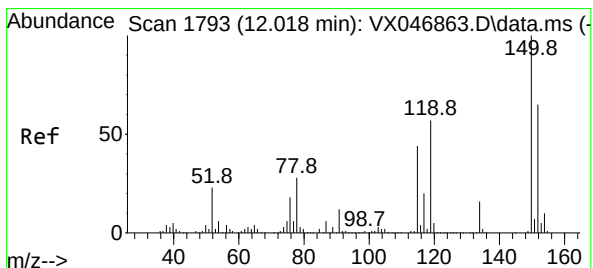
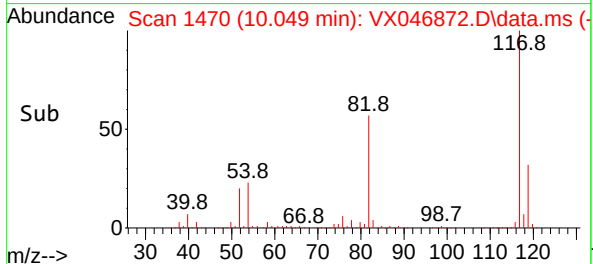
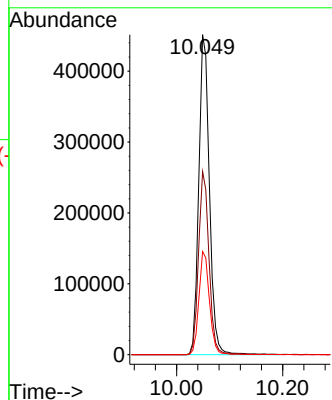
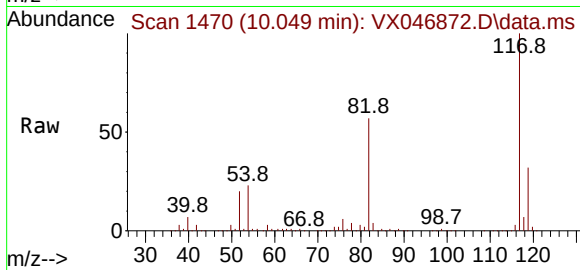




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VX046872.D
Acq: 03 Jul 2025 09:35

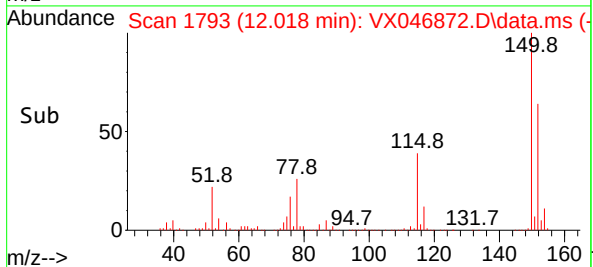
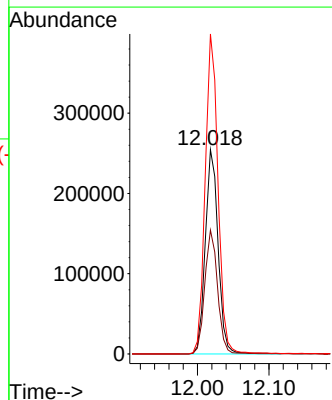
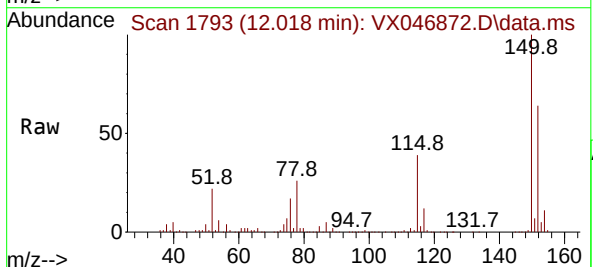
Instrument :
MSVOA_X
ClientSampleId :
FB-06272025

Tgt Ion:117 Resp: 628783
Ion Ratio Lower Upper
117 100
82 57.2 43.3 64.9
119 32.3 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046872.D
Acq: 03 Jul 2025 09:35

Tgt Ion:152 Resp: 317895
Ion Ratio Lower Upper
152 100
115 60.5 42.4 127.1
150 156.6 0.0 349.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046872.D
Acq On : 03 Jul 2025 09:35
Operator : JC/MD
Sample : Q2458-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-06272025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M

Title : SW846 8260

Signal : TIC: VX046872.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.391	694	706	723	rBV3	229410	737111	33.58%	6.250%
2	5.556	723	733	760	rVB	378789	1177058	53.62%	9.981%
3	5.958	787	799	820	rBV	254504	735538	33.51%	6.237%
4	6.763	922	931	951	rBV	627649	1603242	73.03%	13.595%
5	8.647	1234	1240	1262	rBV	1368047	2195253	100.00%	18.614%
6	10.049	1465	1470	1488	rBV	1390656	1933534	88.08%	16.395%
7	11.079	1634	1639	1655	rBV	1147352	1485062	67.65%	12.592%
8	12.018	1788	1793	1803	rBV	1550688	1926505	87.76%	16.336%

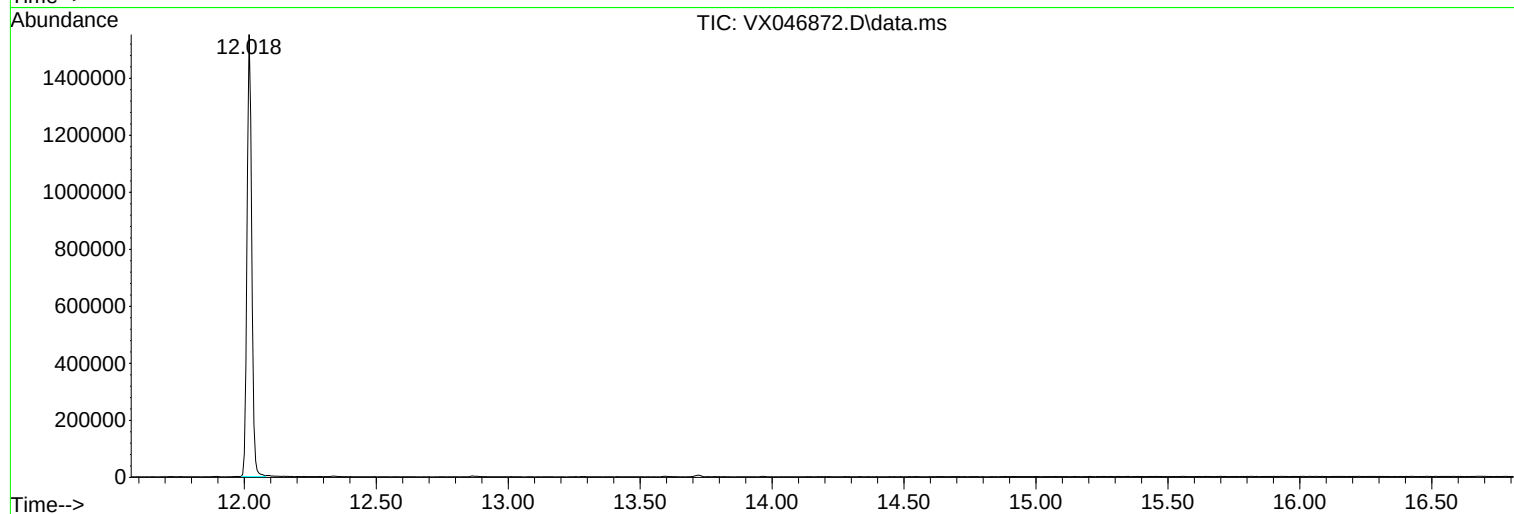
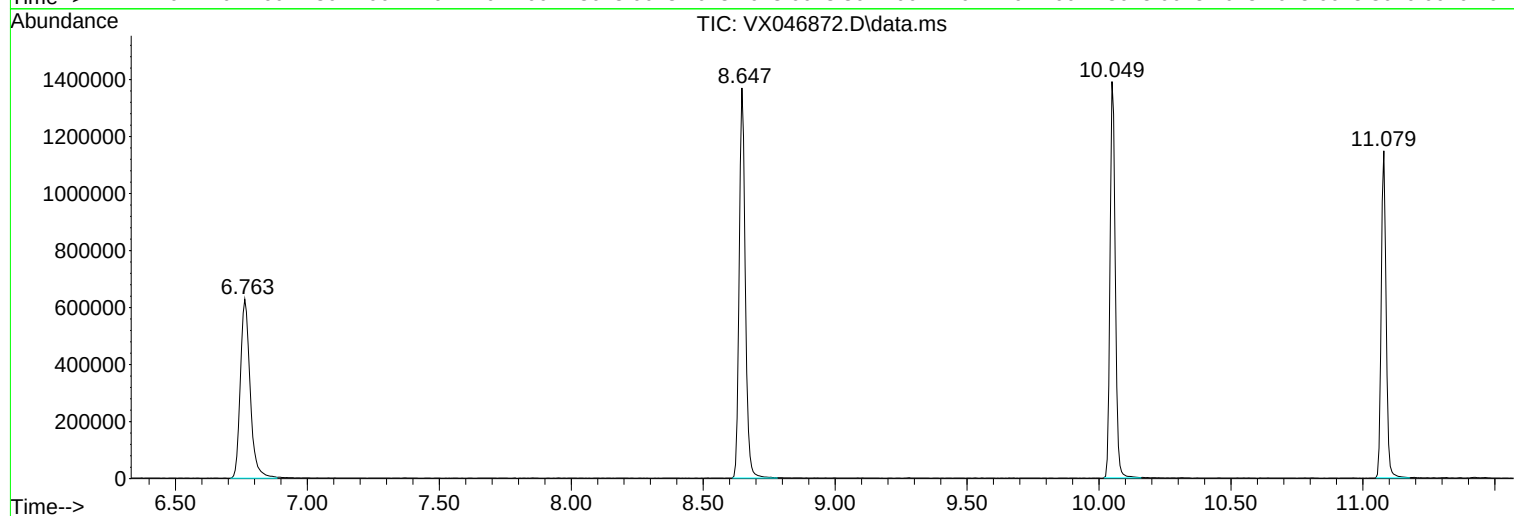
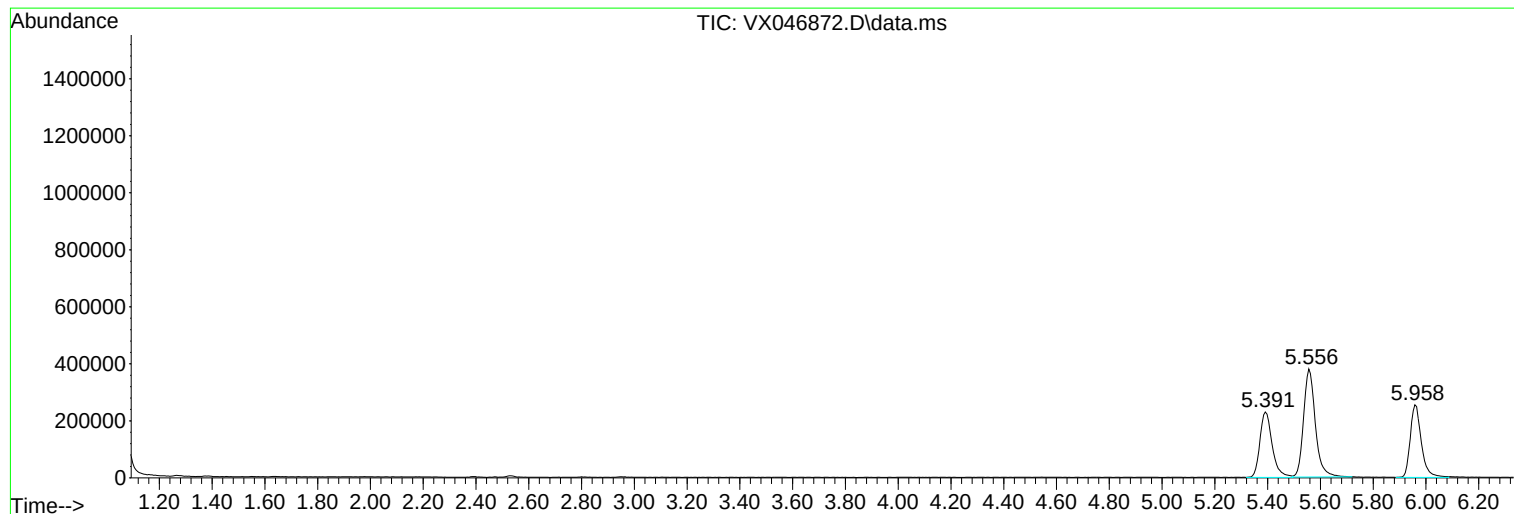
Sum of corrected areas: 11793303

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046872.D
Acq On : 03 Jul 2025 09:35
Operator : JC/MD
Sample : Q2458-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-06272025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046872.D
Acq On : 03 Jul 2025 09:35
Operator : JC/MD
Sample : Q2458-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-06272025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046872.D
Acq On : 03 Jul 2025 09:35
Operator : JC/MD
Sample : Q2458-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-06272025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

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



CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date(s):	<u>07/02/2025</u> <u>07/02/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Calibration Time(s):	<u>12:11</u> <u>14:31</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

LAB FILE ID:	RRF001 = VX046860.D			RRF005 = VX046861.D		RRF020 = VX046862.D		
	RRF050 = VX046863.D			RRF100 = VX046864.D		RRF150 = VX046865.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.445	0.433	0.512	0.487	0.503	0.490	0.478	6.7
Chloromethane	0.505	0.507	0.541	0.508	0.543	0.530	0.522	3.4
Vinyl Chloride	0.568	0.549	0.591	0.550	0.589	0.566	0.569	3.2
Bromomethane		0.402	0.402	0.360	0.369	0.295	0.366	12
Chloroethane	0.443	0.365	0.383	0.347	0.362	0.354	0.376	9.4
Trichlorofluoromethane	0.847	0.874	0.921	0.857	0.893	0.885	0.880	3
1,1,2-Trichlorotrifluoroethane	0.527	0.571	0.583	0.548	0.572	0.562	0.561	3.6
1,1-Dichloroethene	0.543	0.555	0.546	0.524	0.546	0.540	0.542	1.9
Acetone	0.236	0.210	0.195	0.193	0.197	0.200	0.205	7.9
Carbon Disulfide	1.585	1.425	1.405	1.342	1.398	1.376	1.422	6
Methyl tert-butyl Ether	1.447	1.470	1.540	1.528	1.587	1.615	1.531	4.2
Methyl Acetate	0.488	0.474	0.560	0.553	0.570	0.599	0.541	9.1
Methylene Chloride	0.623	0.625	0.624	0.585	0.596	0.588	0.607	3.1
trans-1,2-Dichloroethene	0.552	0.564	0.575	0.541	0.551	0.545	0.555	2.3
1,1-Dichloroethane	1.080	1.084	1.074	1.039	1.055	1.050	1.064	1.7
Cyclohexane		0.973	0.977	0.918	0.926	0.927	0.944	3
2-Butanone	0.260	0.270	0.275	0.275	0.276	0.286	0.274	3.1
Carbon Tetrachloride	0.471	0.505	0.495	0.476	0.480	0.478	0.484	2.7
cis-1,2-Dichloroethene	0.711	0.669	0.688	0.660	0.670	0.666	0.677	2.8
Bromochloromethane	0.529	0.543	0.524	0.528	0.516	0.508	0.525	2.3
Chloroform	1.150	1.106	1.112	1.048	1.052	1.050	1.087	3.9
1,1,1-Trichloroethane	0.944	0.897	0.908	0.886	0.901	0.910	0.908	2.2
Methylcyclohexane	0.539	0.588	0.589	0.567	0.578	0.576	0.573	3.2
Benzene	1.391	1.445	1.452	1.356	1.342	1.324	1.385	3.9
1,2-Dichloroethane	0.499	0.477	0.487	0.460	0.453	0.446	0.470	4.4
Trichloroethene	0.386	0.377	0.365	0.344	0.347	0.344	0.361	5
1,2-Dichloropropane	0.364	0.340	0.362	0.346	0.345	0.342	0.350	3
Bromodichloromethane	0.538	0.508	0.535	0.510	0.508	0.507	0.518	2.9
4-Methyl-2-Pentanone	0.330	0.340	0.368	0.366	0.353	0.357	0.353	4.3
Toluene	0.855	0.894	0.906	0.841	0.831	0.823	0.858	3.9

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CAMP02
 Lab Code: ACE SDG No.: Q2458
 Instrument ID: MSVOA_X Calibration Date(s): 07/02/2025 07/02/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:11 14:31
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX046860.D		RRF005 = VX046861.D		RRF020 = VX046862.D			
		RRF050 = VX046863.D		RRF100 = VX046864.D		RRF150 = VX046865.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.408	0.431	0.467	0.472	0.490	0.504	0.462	7.8	
cis-1,3-Dichloropropene	0.496	0.499	0.532	0.533	0.549	0.554	0.527	4.7	
1,1,2-Trichloroethane	0.325	0.329	0.328	0.318	0.310	0.308	0.320	2.8	
2-Hexanone	0.205	0.227	0.245	0.247	0.238	0.242	0.234	6.8	
Dibromochloromethane	0.383	0.390	0.393	0.377	0.376	0.377	0.383	1.9	
1,2-Dibromoethane	0.323	0.317	0.332	0.320	0.317	0.317	0.321	1.8	
Tetrachloroethene	0.353	0.346	0.345	0.315	0.320	0.318	0.333	5.1	
Chlorobenzene	1.111	1.117	1.113	1.049	1.051	1.045	1.081	3.3	
Ethyl Benzene	1.810	1.868	1.929	1.830	1.846	1.824	1.851	2.3	
m/p-Xylenes	0.702	0.710	0.731	0.688	0.683	0.672	0.698	3.1	
o-Xylene	0.676	0.677	0.703	0.665	0.663	0.660	0.674	2.4	
Styrene	1.070	1.152	1.228	1.175	1.157	1.134	1.153	4.5	
Bromoform	0.269	0.261	0.273	0.269	0.275	0.275	0.270	1.9	
Isopropylbenzene	3.267	3.428	3.611	3.601	3.592	3.590	3.515	4	
1,1,2,2-Tetrachloroethane	1.000	0.948	0.981	0.963	0.939	0.968	0.966	2.3	
1,3-Dichlorobenzene	1.615	1.664	1.673	1.627	1.625	1.619	1.637	1.5	
1,4-Dichlorobenzene	1.852	1.776	1.711	1.632	1.622	1.632	1.704	5.5	
1,2-Dichlorobenzene	1.626	1.592	1.625	1.568	1.560	1.550	1.587	2.1	
1,2-Dibromo-3-Chloropropane	0.158	0.151	0.164	0.171	0.178	0.192	0.169	8.7	
1,2,4-Trichlorobenzene	1.016	1.020	1.078	1.087	1.121	1.145	1.078	4.9	
1,2,3-Trichlorobenzene	0.900	0.965	1.033	1.045	1.069	1.099	1.019	7.2	
1,2-Dichloroethane-d4		0.722	0.652	0.647	0.641	0.640	0.661	5.3	
Dibromofluoromethane		0.355	0.346	0.339	0.332	0.325	0.339	3.5	
Toluene-d8		1.278	1.220	1.195	1.160	1.135	1.197	4.6	
4-Bromofluorobenzene		0.493	0.469	0.455	0.433	0.426	0.455	6	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X070225W.M
 Title : SW846 8260
 Last Update : Thu Jul 03 05:51:11 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX046860.D 5 =VX046861.D 20 =VX046862.D 50 =VX046863.D 100 =VX046864.D 150 =VX046865.D

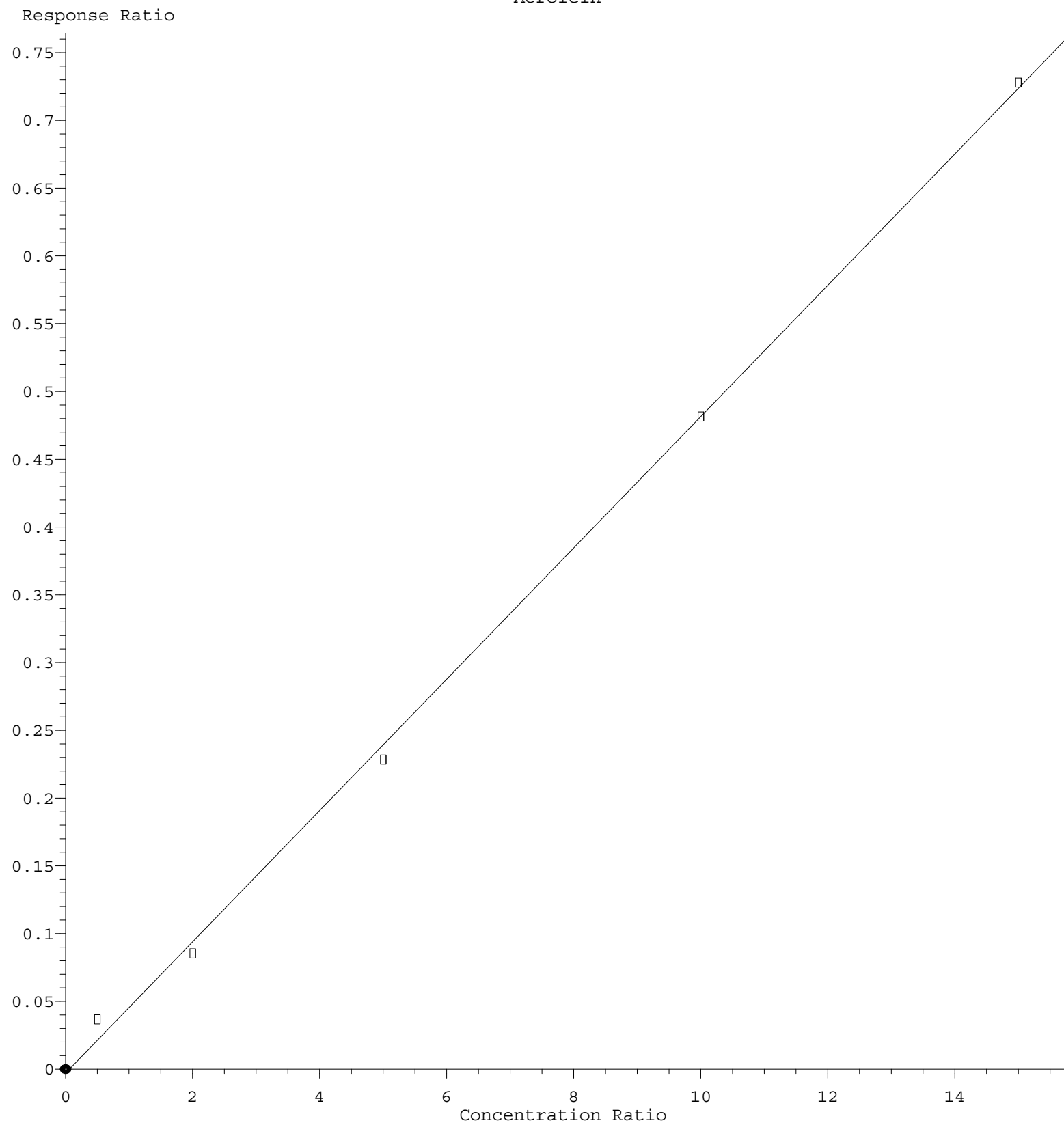
	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.445	0.433	0.512	0.487	0.503	0.490	0.478	6.67
3) P	Chloromethane	0.505	0.507	0.541	0.508	0.543	0.530	0.522	3.38
4) C	Vinyl Chloride	0.568	0.549	0.591	0.550	0.589	0.566	0.569	3.19#
5) T	Bromomethane		0.402	0.402	0.360	0.369	0.295	0.366	12.04
6) T	Chloroethane	0.443	0.365	0.383	0.347	0.362	0.354	0.376	9.38
7) T	Trichlorofluor...	0.847	0.874	0.921	0.857	0.893	0.885	0.880	3.02
8) T	Diethyl Ether	0.315	0.308	0.316	0.304	0.317	0.317	0.313	1.78
9) T	1,1,2-Trichlor...	0.527	0.571	0.583	0.548	0.572	0.562	0.561	3.58
10) T	Methyl Iodide		0.465	0.581	0.631	0.681	0.696	0.611	15.27
11) T	Tert butyl alc...		0.044	0.042	0.042	0.043	0.045	0.043	3.54
12) CM	1,1-Dichloroet...	0.543	0.555	0.546	0.524	0.546	0.540	0.542	1.85#
13) T	Acrolein		0.074	0.043	0.046	0.048	0.049	0.052	24.05
14) T	Allyl chloride	0.975	0.939	0.963	0.943	0.988	0.983	0.965	2.12
15) T	Acrylonitrile	0.266	0.238	0.249	0.246	0.250	0.254	0.250	3.81
16) T	Acetone	0.236	0.210	0.195	0.193	0.197	0.200	0.205	7.90
17) T	Carbon Disulfide	1.585	1.425	1.405	1.342	1.398	1.376	1.422	5.98
18) T	Methyl Acetate	0.488	0.474	0.560	0.553	0.570	0.599	0.541	9.08
19) T	Methyl tert-bu...	1.447	1.470	1.540	1.528	1.587	1.615	1.531	4.25
20) T	Methylene Chlo...	0.623	0.625	0.624	0.585	0.596	0.588	0.607	3.14
21) T	trans-1,2-Dich...	0.552	0.564	0.575	0.541	0.551	0.545	0.555	2.31
22) T	Diisopropyl ether	1.666	1.831	1.967	1.905	1.927	1.893	1.865	5.75
23) T	Vinyl Acetate	1.255	1.341	1.423	1.423	1.465	1.475	1.397	6.02
24) P	1,1-Dichloroet...	1.080	1.084	1.074	1.039	1.055	1.050	1.064	1.71
25) T	2-Butanone	0.260	0.270	0.275	0.275	0.276	0.286	0.274	3.07
26) T	2,2-Dichloropr...	0.832	0.746	0.782	0.761	0.802	0.826	0.792	4.38
27) T	cis-1,2-Dichlo...	0.711	0.669	0.688	0.660	0.670	0.666	0.677	2.78
28) T	Bromochloromet...	0.529	0.543	0.524	0.528	0.516	0.508	0.525	2.29
29) T	Tetrahydrofuran	0.175	0.162	0.174	0.175	0.178	0.183	0.175	4.02
30) C	Chloroform	1.150	1.106	1.112	1.048	1.052	1.050	1.087	3.93#
31) T	Cyclohexane		0.973	0.977	0.918	0.926	0.927	0.944	3.00
32) T	1,1,1-Trichlor...	0.944	0.897	0.908	0.886	0.901	0.910	0.908	2.17
33) S	1,2-Dichloroet...		0.722	0.652	0.647	0.641	0.640	0.661	5.29
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.355	0.346	0.339	0.332	0.325	0.339	3.47
36) T	1,1-Dichloropr...	0.499	0.477	0.461	0.439	0.434	0.437	0.458	5.71
37) T	Ethyl Acetate	0.506	0.376	0.371	0.360	0.355	0.373	0.390	14.73
38) T	Carbon Tetrach...	0.471	0.505	0.495	0.476	0.480	0.478	0.484	2.73
39) T	Methylcyclohexane	0.539	0.588	0.589	0.567	0.578	0.576	0.573	3.20
40) TM	Benzene	1.391	1.445	1.452	1.356	1.342	1.324	1.385	3.88
41) T	Methacrylonitrile	0.175	0.196	0.222	0.213	0.221	0.222	0.208	9.12
42) TM	1,2-Dichloroet...	0.499	0.477	0.487	0.460	0.453	0.446	0.470	4.39
43) T	Isopropyl Acetate	0.508	0.562	0.613	0.618	0.630	0.652	0.597	8.82
44) TM	Trichloroethene	0.386	0.377	0.365	0.344	0.347	0.344	0.361	5.02
45) C	1,2-Dichloropr...	0.364	0.340	0.362	0.346	0.345	0.342	0.350	3.03#
46) T	Dibromomethane	0.247	0.246	0.250	0.240	0.236	0.237	0.242	2.35
47) T	Bromodichlorom...	0.538	0.508	0.535	0.510	0.508	0.507	0.518	2.87
48) T	Methyl methacr...	0.257	0.294	0.307	0.322	0.329	0.343	0.308	9.89
49) T	1,4-Dioxane	0.003	0.004	0.004	0.004	0.004	0.004	0.004	2.38
50) S	Toluene-d8		1.278	1.220	1.195	1.160	1.135	1.197	4.60
51) T	4-Methyl-2-Pen...	0.330	0.340	0.368	0.366	0.353	0.357	0.353	4.26
52) CM	Toluene	0.855	0.894	0.906	0.841	0.831	0.823	0.858	3.95#
53) T	t-1,3-Dichloro...	0.408	0.431	0.467	0.472	0.490	0.504	0.462	7.81
54) T	cis-1,3-Dichlo...	0.496	0.499	0.532	0.533	0.549	0.554	0.527	4.71
55) T	1,1,2-Trichlor...	0.325	0.329	0.328	0.318	0.310	0.308	0.320	2.82
56) T	Ethyl methacry...	0.390	0.409	0.447	0.459	0.468	0.482	0.442	8.13

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X070225W.M

57)	T	1,3-Dichloropr...	0.567	0.567	0.572	0.541	0.528	0.527	0.550	3.76
58)	T	2-Chloroethyl ...	0.217	0.235	0.258	0.267	0.260	0.259	0.249	7.69
59)	T	2-Hexanone	0.205	0.227	0.245	0.247	0.238	0.242	0.234	6.83
60)	T	Dibromochlorom...	0.383	0.390	0.393	0.377	0.376	0.377	0.383	1.94
61)	T	1,2-Dibromoethane	0.323	0.317	0.332	0.320	0.317	0.317	0.321	1.82
62)	S	4-Bromofluorob...		0.493	0.469	0.455	0.433	0.426	0.455	5.97
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.353	0.346	0.345	0.315	0.320	0.318	0.333	5.13
65)	PM	Chlorobenzene	1.111	1.117	1.113	1.049	1.051	1.045	1.081	3.32
66)	T	1,1,1,2-Tetrac...	0.366	0.347	0.377	0.359	0.366	0.367	0.363	2.75
67)	C	Ethyl Benzene	1.810	1.868	1.929	1.830	1.846	1.824	1.851	2.32#
68)	T	m/p-Xylenes	0.702	0.710	0.731	0.688	0.683	0.672	0.698	3.05
69)	T	o-Xylene	0.676	0.677	0.703	0.665	0.663	0.660	0.674	2.36
70)	T	Styrene	1.070	1.152	1.228	1.175	1.157	1.134	1.153	4.50
71)	P	Bromoform	0.269	0.261	0.273	0.269	0.275	0.275	0.270	1.94
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.267	3.428	3.611	3.601	3.592	3.590	3.515	3.97
74)	T	N-amyl acetate	0.953	1.079	1.194	1.270	1.303	1.367	1.194	12.93
75)	P	1,1,2,2-Tetrac...	1.000	0.948	0.981	0.963	0.939	0.968	0.966	2.26
76)	T	1,2,3-Trichlor...	0.781	0.720	0.770	0.787	0.791	0.787	0.773	3.46
77)	T	Bromobenzene	0.868	0.890	0.876	0.876	0.870	0.872	0.875	0.89
78)	T	n-propylbenzene	4.048	4.223	4.362	4.293	4.271	4.233	4.238	2.50
79)	T	2-Chlorotoluene	2.441	2.523	2.596	2.482	2.498	2.474	2.503	2.13
80)	T	1,3,5-Trimethy...	2.574	2.780	3.014	2.924	2.947	2.896	2.856	5.54
81)	T	trans-1,4-Dich...		0.236	0.267	0.292	0.312	0.333	0.288	13.09
82)	T	4-Chlorotoluene	2.755	2.916	2.982	2.915	2.899	2.859	2.888	2.64
83)	T	tert-Butylbenzene	2.733	2.876	3.036	3.020	3.031	3.002	2.950	4.13
84)	T	1,2,4-Trimethy...	2.615	2.872	3.017	2.949	2.930	2.937	2.887	4.88
85)	T	sec-Butylbenzene	3.475	3.721	3.852	3.782	3.766	3.719	3.719	3.47
86)	T	p-Isopropyltol...	2.948	3.159	3.181	3.162	3.160	3.077	3.114	2.87
87)	T	1,3-Dichlorobe...	1.615	1.664	1.673	1.627	1.625	1.619	1.637	1.50
88)	T	1,4-Dichlorobe...	1.852	1.776	1.711	1.632	1.622	1.632	1.704	5.52
89)	T	n-Butylbenzene	2.747	2.891	3.036	2.987	2.983	2.914	2.926	3.51
90)	T	Hexachloroethane	0.530	0.523	0.537	0.554	0.581	0.589	0.552	4.95
91)	T	1,2-Dichlorobe...	1.626	1.592	1.625	1.568	1.560	1.550	1.587	2.07
92)	T	1,2-Dibromo-3-...	0.158	0.151	0.164	0.171	0.178	0.192	0.169	8.69
93)	T	1,2,4-Trichlor...	1.016	1.020	1.078	1.087	1.121	1.145	1.078	4.86
94)	T	Hexachlorobuta...	0.393	0.397	0.421	0.409	0.408	0.411	0.407	2.52
95)	T	Naphthalene	2.210	2.537	2.893	3.034	3.096	3.273	2.840	13.92
96)	T	1,2,3-Trichlor...	0.900	0.965	1.033	1.045	1.069	1.099	1.019	7.20

(#) = Out of Range

Acrolein



$\text{Response} = 4.842\text{e-}002 * \text{Amt} - 2.745\text{e-}003$
 Coef of Det (r^2) = 0.998662 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X070225W.M
 Calibration Table Last Updated: Thu Jul 03 05:51:11 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046860.D
 Acq On : 02 Jul 2025 12:11
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:29:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	372069	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	622566	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	571866	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	290571	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	78 - 117	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	92 - 112	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	83 - 123	Recovery	=	0.000%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	3309	0.930	ug/l	89
3) Chloromethane	1.307	50	3761	0.967	ug/l	89
4) Vinyl Chloride	1.386	62	4227	0.998	ug/l	99
6) Chloroethane	1.703	64	3296	1.179	ug/l	94
7) Trichlorofluoromethane	1.910	101	6304	0.963	ug/l	88
8) Diethyl Ether	2.148	74	2346	1.007	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.349	101	3923	0.940	ug/l	93
12) 1,1-Dichloroethene	2.337	96	4037	1.001	ug/l	90
14) Allyl chloride	2.678	41	7259	1.011	ug/l	96
15) Acrylonitrile	3.081	53	9914m	5.298	ug/l	
16) Acetone	2.386	43	8778	5.749	ug/l	89
17) Carbon Disulfide	2.532	76	11797	1.115	ug/l #	88
18) Methyl Acetate	2.715	43	3632	0.903	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	10768	0.945	ug/l	96
20) Methylene Chloride	2.800	84	4636	1.027	ug/l #	91
21) trans-1,2-Dichloroethene	3.111	96	4109	0.995	ug/l	92
22) Diisopropyl ether	3.776	45	12396	0.893	ug/l #	56
23) Vinyl Acetate	3.739	43	46702	4.492	ug/l	97
24) 1,1-Dichloroethane	3.623	63	8033	1.015	ug/l	98
25) 2-Butanone	4.599	43	9681m	4.752	ug/l	
26) 2,2-Dichloropropane	4.483	77	6192	1.051	ug/l	93
27) cis-1,2-Dichloroethene	4.501	96	5289	1.049	ug/l	98
28) Bromochloromethane	4.910	49	3938	1.008	ug/l #	95
29) Tetrahydrofuran	5.025	42	6512	5.015	ug/l #	62
30) Chloroform	5.111	83	8561	1.059	ug/l #	80
32) 1,1,1-Trichloroethane	5.391	97	7025	1.040	ug/l #	49
36) 1,1-Dichloropropene	5.702	75	6211	1.089	ug/l	91
37) Ethyl Acetate	4.763	43	6302m	1.298	ug/l	
38) Carbon Tetrachloride	5.690	117	5859m	0.959	ug/l	
39) Methylcyclohexane	7.385	83	6714	0.941	ug/l	86
40) Benzene	6.050	78	17315	1.004	ug/l #	87
41) Methacrylonitrile	4.958	41	2181m	0.842	ug/l	
42) 1,2-Dichloroethane	6.104	62	6218	1.062	ug/l	88
43) Isopropyl Acetate	6.354	43	6331	0.851	ug/l #	79
44) Trichloroethene	7.135	130	4807	1.071	ug/l	94
45) 1,2-Dichloropropane	7.446	63	4536	1.041	ug/l #	77

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046860.D
 Acq On : 02 Jul 2025 12:11
 Operator : JC/MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:29:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.592	93	3072	1.018	ug/l	96
47) Bromodichloromethane	7.830	83	6705	1.040	ug/l	91
48) Methyl methacrylate	7.714	41	3198	0.833	ug/l #	54
49) 1,4-Dioxane	7.683	88	860m	19.325	ug/l	
51) 4-Methyl-2-Pentanone	8.580	43	20561	4.684	ug/l	97
52) Toluene	8.726	92	10648	0.996	ug/l	96
53) t-1,3-Dichloropropene	8.994	75	5080	0.883	ug/l	97
54) cis-1,3-Dichloropropene	8.372	75	6171	0.940	ug/l #	47
55) 1,1,2-Trichloroethane	9.159	97	4046	1.016	ug/l #	84
56) Ethyl methacrylate	9.122	69	4850	0.880	ug/l	95
57) 1,3-Dichloropropane	9.311	76	7057	1.030	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.250	63	13509	4.352	ug/l	100
59) 2-Hexanone	9.439	43	12742	4.376	ug/l	94
60) Dibromochloromethane	9.519	129	4772	1.002	ug/l	95
61) 1,2-Dibromoethane	9.610	107	4026	1.007	ug/l	100
64) Tetrachloroethene	9.275	164	4039	1.061	ug/l #	86
65) Chlorobenzene	10.079	112	12712	1.028	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	4188	1.008	ug/l #	65
67) Ethyl Benzene	10.195	91	20707	0.978	ug/l	96
68) m/p-Xylenes	10.305	106	16047	2.011	ug/l	91
69) o-Xylene	10.640	106	7726	1.002	ug/l	95
70) Styrene	10.659	104	12236	0.928	ug/l	98
71) Bromoform	10.805	173	3071	0.994	ug/l #	97
73) Isopropylbenzene	10.963	105	18985	0.929	ug/l	100
74) N-amyl acetate	10.848	43	5537	0.798	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.213	83	5809	1.034	ug/l	94
76) 1,2,3-Trichloropropane	11.238	75	4536m	1.010	ug/l	
77) Bromobenzene	11.201	156	5045	0.992	ug/l	96
78) n-propylbenzene	11.305	91	23522	0.955	ug/l	98
79) 2-Chlorotoluene	11.366	91	14185	0.975	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	14958	0.901	ug/l	100
82) 4-Chlorotoluene	11.457	91	16012	0.954	ug/l	97
83) tert-Butylbenzene	11.713	119	15883	0.927	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	15197	0.906	ug/l	96
85) sec-Butylbenzene	11.890	105	20193	0.934	ug/l	99
86) p-Isopropyltoluene	12.006	119	17131	0.946	ug/l	93
87) 1,3-Dichlorobenzene	11.969	146	9388	0.987	ug/l	97
88) 1,4-Dichlorobenzene	12.036	146	10764m	1.087	ug/l	
89) n-Butylbenzene	12.335	91	15963	0.939	ug/l	99
90) Hexachloroethane	12.536	117	3079	0.960	ug/l	91
91) 1,2-Dichlorobenzene	12.335	146	9448	1.025	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	920	0.937	ug/l	95
93) 1,2,4-Trichlorobenzene	13.591	180	5904	0.942	ug/l	98
94) Hexachlorobutadiene	13.725	225	2281	0.966	ug/l	87
95) Naphthalene	13.780	128	12846	0.778	ug/l	98
96) 1,2,3-Trichlorobenzene	13.963	180	5231	0.884	ug/l	95

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

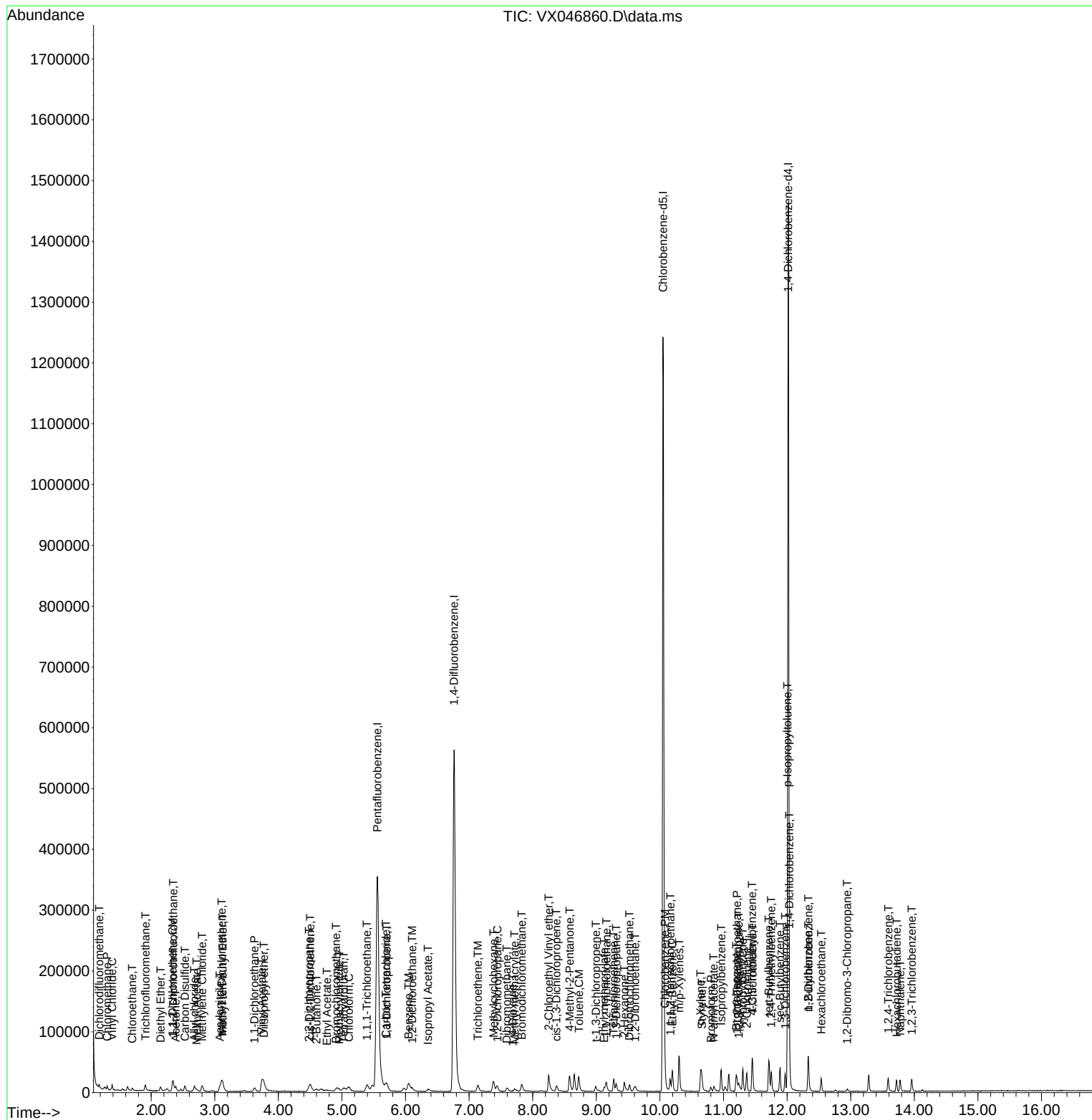
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046860.D
Acq On : 02 Jul 2025 12:11
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:29:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046861.D
 Acq On : 02 Jul 2025 12:37
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:30:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	396691	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	652365	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	592225	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	309407	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	28658	5.468	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	10.940%#		
35) Dibromofluoromethane	5.397	113	23179	5.234	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.460%#		
50) Toluene-d8	8.647	98	83349	5.335	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	10.660%#		
62) 4-Bromofluorobenzene	11.079	95	32156	5.415	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	10.840%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.178	85	17184	4.530	ug/l	99
3) Chloromethane	1.306	50	20130	4.857	ug/l	95
4) Vinyl Chloride	1.386	62	21789	4.827	ug/l	99
5) Bromomethane	1.623	94	15966	5.505	ug/l	93
6) Chloroethane	1.703	64	14497	4.864	ug/l	97
7) Trichlorofluoromethane	1.904	101	34689	4.970	ug/l	98
8) Diethyl Ether	2.148	74	12204	4.914	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.343	101	22655	5.094	ug/l	98
10) Methyl Iodide	2.465	142	18441	3.806	ug/l	95
11) Tert butyl alcohol	2.952	59	8771	25.519	ug/l	100
12) 1,1-Dichloroethene	2.337	96	22008	5.116	ug/l	100
13) Acrolein	2.245	56	14598	40.835	ug/l	98
14) Allyl chloride	2.678	41	37266	4.866	ug/l	95
15) Acrylonitrile	3.074	53	47130	23.621	ug/l	100
16) Acetone	2.385	43	41693	25.612	ug/l	94
17) Carbon Disulfide	2.526	76	56543	5.012	ug/l	98
18) Methyl Acetate	2.715	43	18796	4.381	ug/l	92
19) Methyl tert-butyl Ether	3.123	73	58304	4.800	ug/l	96
20) Methylene Chloride	2.800	84	24790	5.150	ug/l	92
21) trans-1,2-Dichloroethene	3.105	96	22385	5.086	ug/l	98
22) Diisopropyl ether	3.763	45	72646	4.910	ug/l #	74
23) Vinyl Acetate	3.733	43	265941	23.992	ug/l	97
24) 1,1-Dichloroethane	3.617	63	42994	5.095	ug/l	97
25) 2-Butanone	4.568	43	53597	24.678	ug/l	99
26) 2,2-Dichloropropane	4.483	77	29599	4.713	ug/l	79
27) cis-1,2-Dichloroethene	4.501	96	26549	4.940	ug/l	96
28) Bromochloromethane	4.915	49	21555	5.176	ug/l	94
29) Tetrahydrofuran	5.019	42	32120	23.200	ug/l	98
30) Chloroform	5.098	83	43886	5.091	ug/l	99
31) Cyclohexane	5.482	56	38601	5.153	ug/l	96
32) 1,1,1-Trichloroethane	5.391	97	35598	4.943	ug/l	95
36) 1,1-Dichloropropene	5.702	75	31138	5.212	ug/l	98
37) Ethyl Acetate	4.733	43	24519	4.818	ug/l #	92
38) Carbon Tetrachloride	5.690	117	32963	5.151	ug/l	93
39) Methylcyclohexane	7.385	83	38332	5.129	ug/l	99
40) Benzene	6.043	78	94260	5.216	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046861.D
 Acq On : 02 Jul 2025 12:37
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:30:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	12777	4.707	ug/l #	94
42) 1,2-Dichloroethane	6.092	62	31102	5.068	ug/l	98
43) Isopropyl Acetate	6.348	43	36681	4.706	ug/l	98
44) Trichloroethene	7.128	130	24587	5.227	ug/l	98
45) 1,2-Dichloropropane	7.433	63	22205	4.863	ug/l	91
46) Dibromomethane	7.586	93	16018	5.063	ug/l	99
47) Bromodichloromethane	7.824	83	33143	4.907	ug/l	99
48) Methyl methacrylate	7.702	41	19166	4.762	ug/l	98
49) 1,4-Dioxane	7.671	88	4647	99.650	ug/l #	90
51) 4-Methyl-2-Pentanone	8.573	43	110844	24.096	ug/l	100
52) Toluene	8.720	92	58295	5.206	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	28142	4.668	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	32562	4.732	ug/l	92
55) 1,1,2-Trichloroethane	9.153	97	21431	5.138	ug/l	96
56) Ethyl methacrylate	9.122	69	26665	4.619	ug/l	97
57) 1,3-Dichloropropane	9.311	76	37000	5.152	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	76711	23.583	ug/l	99
59) 2-Hexanone	9.433	43	73995	24.251	ug/l	94
60) Dibromochloromethane	9.518	129	25465	5.101	ug/l	96
61) 1,2-Dibromoethane	9.610	107	20695	4.940	ug/l	98
64) Tetrachloroethene	9.274	164	20514	5.203	ug/l	97
65) Chlorobenzene	10.079	112	66148	5.166	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.158	131	20533	4.770	ug/l	94
67) Ethyl Benzene	10.195	91	110637	5.046	ug/l	97
68) m/p-Xylenes	10.299	106	84083	10.176	ug/l	100
69) o-Xylene	10.640	106	40078	5.021	ug/l	99
70) Styrene	10.652	104	68250	4.998	ug/l	99
71) Bromoform	10.799	173	15461	4.831	ug/l #	99
73) Isopropylbenzene	10.963	105	106065	4.876	ug/l	98
74) N-amyl acetate	10.841	43	33387	4.517	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	29333	4.905	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	22279m	4.660	ug/l	
77) Bromobenzene	11.195	156	27534	5.082	ug/l	95
78) n-propylbenzene	11.298	91	130658	4.982	ug/l	97
79) 2-Chlorotoluene	11.359	91	78075	5.042	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	86020	4.867	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	7304	4.100	ug/l #	81
82) 4-Chlorotoluene	11.451	91	90236	5.049	ug/l	100
83) tert-Butylbenzene	11.713	119	88998	4.876	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	88868	4.975	ug/l	95
85) sec-Butylbenzene	11.890	105	115141	5.003	ug/l	100
86) p-Isopropyltoluene	12.006	119	97742	5.072	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	51500	5.083	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	54943	5.210	ug/l	95
89) n-Butylbenzene	12.329	91	89435	4.939	ug/l	97
90) Hexachloroethane	12.536	117	16170	4.733	ug/l	94
91) 1,2-Dichlorobenzene	12.335	146	49253	5.016	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	4675	4.469	ug/l	90
93) 1,2,4-Trichlorobenzene	13.585	180	31558	4.731	ug/l	100
94) Hexachlorobutadiene	13.719	225	12292	4.886	ug/l	97
95) Naphthalene	13.774	128	78483	4.465	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	29854	4.737	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046861.D
Acq On : 02 Jul 2025 12:37
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:30:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration

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

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

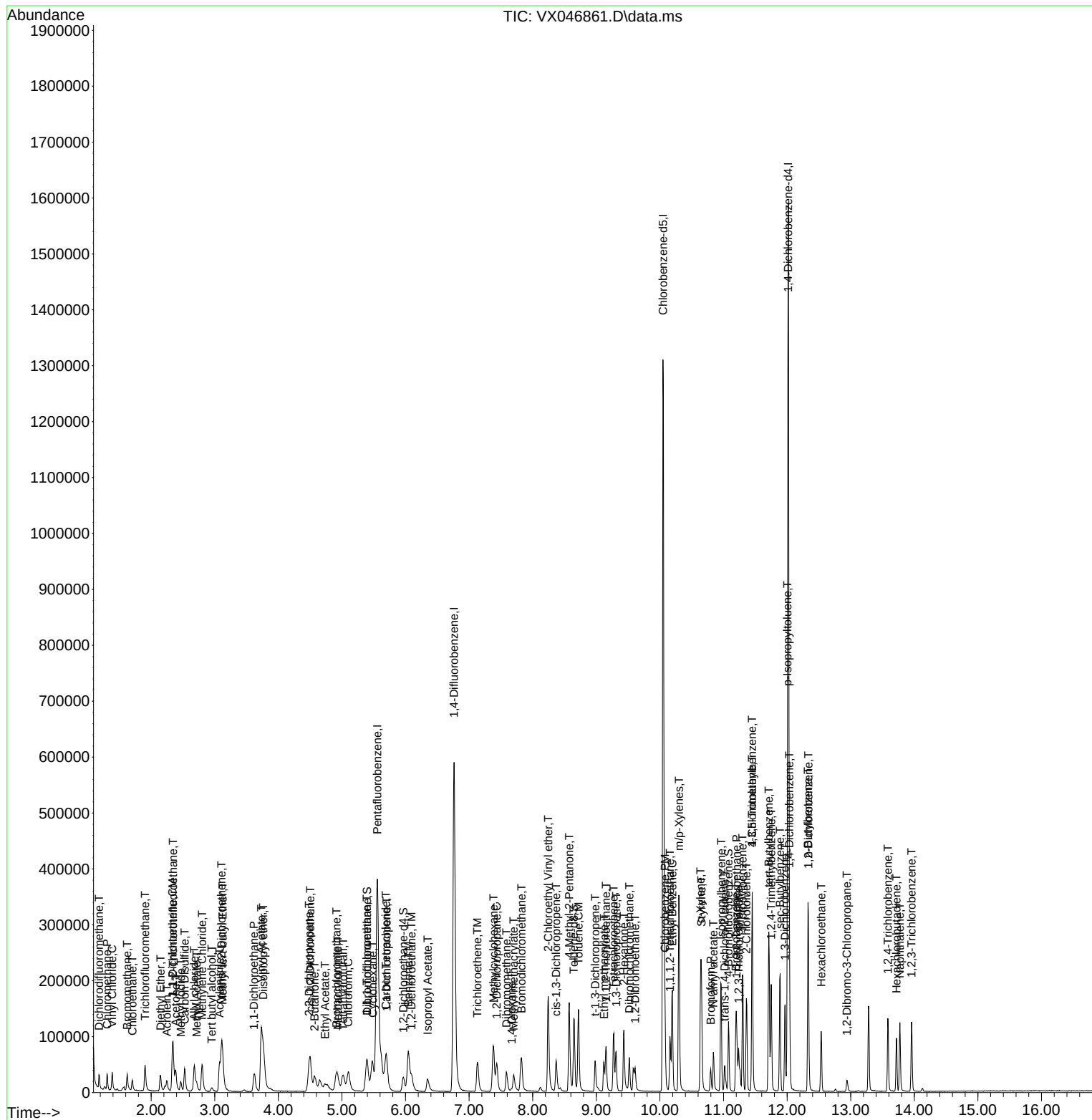
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Data File : VX046861.D
Acq On : 02 Jul 2025 12:37
Operator : JC/MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:30:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046862.D
 Acq On : 02 Jul 2025 13:18
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:31:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	399111	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	642908	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	576289	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	296482	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	104091	19.742	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	39.480%#		
35) Dibromofluoromethane	5.391	113	88863	20.362	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.720%#		
50) Toluene-d8	8.647	98	313624	20.369	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	40.740%#		
62) 4-Bromofluorobenzene	11.079	95	120554	20.601	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	41.200%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.184	85	81688	21.402	ug/l	99
3) Chloromethane	1.306	50	86312	20.697	ug/l	97
4) Vinyl Chloride	1.386	62	94339	20.773	ug/l	100
5) Bromomethane	1.629	94	64159	21.988	ug/l	97
6) Chloroethane	1.703	64	61209	20.412	ug/l	100
7) Trichlorofluoromethane	1.904	101	147045	20.941	ug/l	98
8) Diethyl Ether	2.142	74	50485	20.203	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.343	101	93041	20.794	ug/l	98
10) Methyl Iodide	2.465	142	92753	19.028	ug/l	100
11) Tert butyl alcohol	2.952	59	33170	95.921	ug/l	99
12) 1,1-Dichloroethene	2.337	96	87106	20.127	ug/l	99
13) Acrolein	2.245	56	34095	91.049	ug/l	97
14) Allyl chloride	2.678	41	153719	19.950	ug/l	99
15) Acrylonitrile	3.068	53	198794	99.028	ug/l	99
16) Acetone	2.379	43	155869	95.170	ug/l	98
17) Carbon Disulfide	2.526	76	224317	19.764	ug/l	98
18) Methyl Acetate	2.709	43	89471	20.726	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	245776	20.110	ug/l	100
20) Methylene Chloride	2.800	84	99547	20.555	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	91856	20.742	ug/l	94
22) Diisopropyl ether	3.763	45	314003	21.094	ug/l	94
23) Vinyl Acetate	3.727	43	1136064	101.868	ug/l	100
24) 1,1-Dichloroethane	3.617	63	171529	20.204	ug/l	100
25) 2-Butanone	4.556	43	219759	100.571	ug/l	99
26) 2,2-Dichloropropane	4.483	77	124894	19.767	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	109844	20.316	ug/l	99
28) Bromochloromethane	4.903	49	83733	19.985	ug/l	97
29) Tetrahydrofuran	5.001	42	138587	99.493	ug/l	99
30) Chloroform	5.098	83	177543	20.470	ug/l	97
31) Cyclohexane	5.470	56	155952	20.692	ug/l	93
32) 1,1,1-Trichloroethane	5.391	97	144962	20.005	ug/l	98
36) 1,1-Dichloropropene	5.702	75	118611	20.144	ug/l	97
37) Ethyl Acetate	4.720	43	95352	19.013	ug/l	99
38) Carbon Tetrachloride	5.684	117	127307	20.188	ug/l	97
39) Methylcyclohexane	7.378	83	151595	20.582	ug/l	96
40) Benzene	6.043	78	373429	20.968	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046862.D
 Acq On : 02 Jul 2025 13:18
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:31:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	57138	21.358	ug/l	95
42) 1,2-Dichloroethane	6.086	62	125114	20.689	ug/l	99
43) Isopropyl Acetate	6.336	43	157613	20.519	ug/l	100
44) Trichloroethene	7.128	130	93746	20.221	ug/l	100
45) 1,2-Dichloropropane	7.427	63	93205	20.714	ug/l	99
46) Dibromomethane	7.580	93	64260	20.612	ug/l	100
47) Bromodichloromethane	7.817	83	137600	20.670	ug/l	98
48) Methyl methacrylate	7.695	41	78897	19.892	ug/l	97
49) 1,4-Dioxane	7.659	88	18907	411.405	ug/l	97
51) 4-Methyl-2-Pentanone	8.567	43	473773	104.508	ug/l	99
52) Toluene	8.714	92	232882	21.102	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	120040	20.206	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	136889	20.187	ug/l	98
55) 1,1,2-Trichloroethane	9.146	97	84451	20.545	ug/l	97
56) Ethyl methacrylate	9.116	69	114929	20.200	ug/l	99
57) 1,3-Dichloropropane	9.305	76	147193	20.795	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	331143	103.298	ug/l	100
59) 2-Hexanone	9.427	43	314535	104.602	ug/l	99
60) Dibromochloromethane	9.518	129	100960	20.523	ug/l	100
61) 1,2-Dibromoethane	9.610	107	85342	20.672	ug/l	100
64) Tetrachloroethene	9.268	164	79577	20.740	ug/l	96
65) Chlorobenzene	10.073	112	256491	20.586	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.158	131	86804	20.724	ug/l	99
67) Ethyl Benzene	10.189	91	444690	20.841	ug/l	99
68) m/p-Xylenes	10.299	106	337082	41.924	ug/l	98
69) o-Xylene	10.640	106	162094	20.870	ug/l	99
70) Styrene	10.652	104	283121	21.307	ug/l	100
71) Bromoform	10.799	173	62957	20.215	ug/l #	98
73) Isopropylbenzene	10.957	105	428283	20.549	ug/l	100
74) N-amyl acetate	10.841	43	141581	19.991	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	116329	20.298	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	91349m	19.941	ug/l	
77) Bromobenzene	11.195	156	103902	20.014	ug/l	96
78) n-propylbenzene	11.298	91	517332	20.585	ug/l	100
79) 2-Chlorotoluene	11.359	91	307886	20.748	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	357455	21.108	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	31721	18.582	ug/l	94
82) 4-Chlorotoluene	11.451	91	353678	20.654	ug/l	99
83) tert-Butylbenzene	11.713	119	360024	20.583	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	357753	20.900	ug/l	95
85) sec-Butylbenzene	11.890	105	456837	20.715	ug/l	100
86) p-Isopropyltoluene	12.006	119	377192	20.425	ug/l	100
87) 1,3-Dichlorobenzene	11.963	146	198351	20.429	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	202881	20.078	ug/l	99
89) n-Butylbenzene	12.329	91	360061	20.750	ug/l	99
90) Hexachloroethane	12.536	117	63705	19.459	ug/l	99
91) 1,2-Dichlorobenzene	12.329	146	192682	20.479	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	19455	19.409	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	127830	19.999	ug/l	99
94) Hexachlorobutadiene	13.725	225	49928	20.713	ug/l	99
95) Naphthalene	13.774	128	343123	20.372	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	122506	20.284	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046862.D
Acq On : 02 Jul 2025 13:18
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:31:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration

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

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

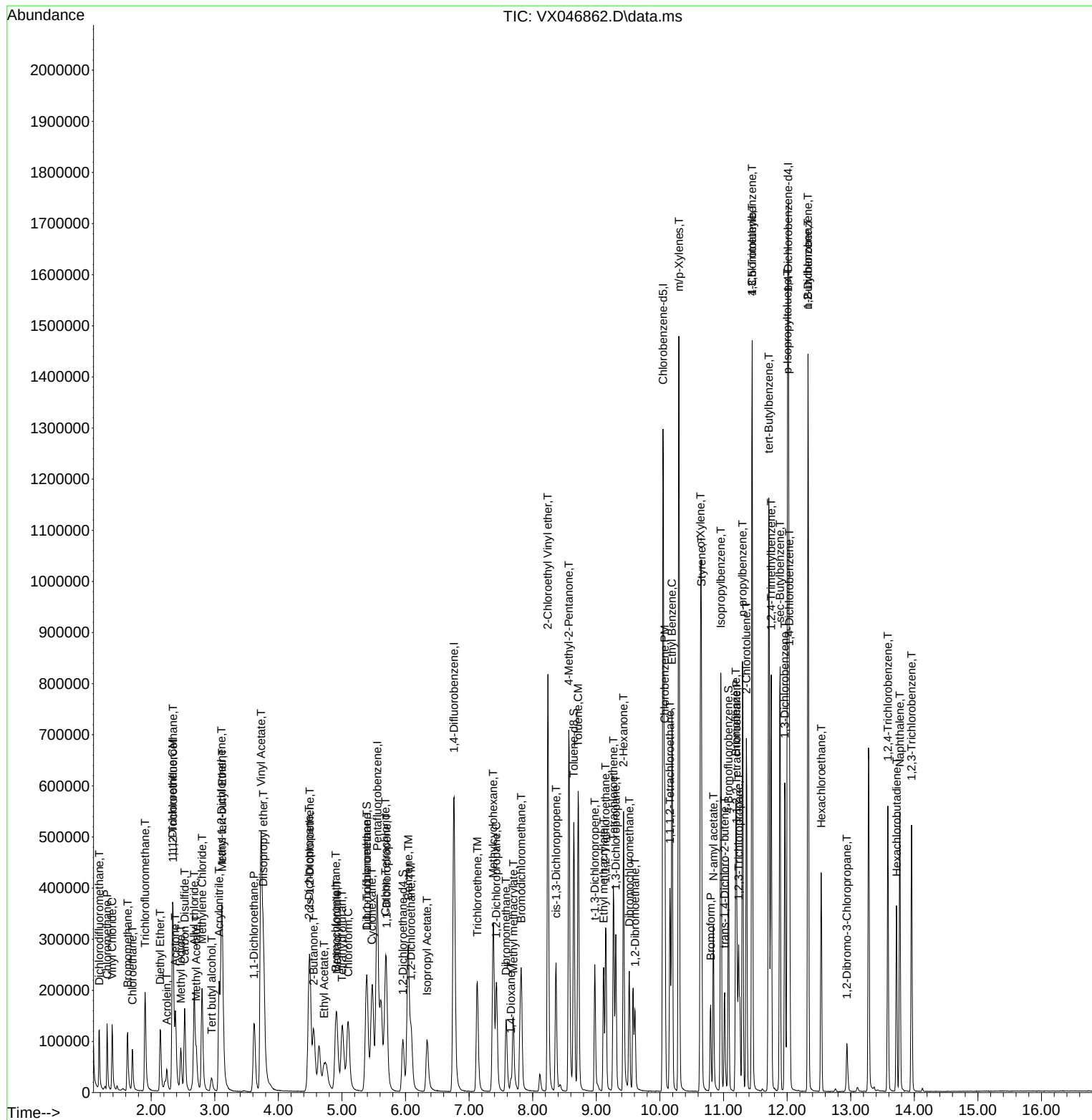
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046862.D
Acq On : 02 Jul 2025 13:18
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:31:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046863.D
 Acq On : 02 Jul 2025 13:39
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:32:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	368182	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	601240	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	539902	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	266829	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	238206	48.973	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	97.940%		
35) Dibromofluoromethane	5.397	113	203814	49.939	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.880%		
50) Toluene-d8	8.647	98	718232	49.879	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.760%		
62) 4-Bromofluorobenzene	11.079	95	273366	49.952	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	179160	50.881	ug/l	100
3) Chloromethane	1.307	50	186908	48.585	ug/l	100
4) Vinyl Chloride	1.386	62	202462	48.327	ug/l	100
5) Bromomethane	1.624	94	132366	49.174	ug/l	100
6) Chloroethane	1.703	64	127577	46.118	ug/l	100
7) Trichlorofluoromethane	1.904	101	315495	48.704	ug/l	100
8) Diethyl Ether	2.148	74	112089	48.624	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	201760	48.880	ug/l	100
10) Methyl Iodide	2.471	142	232179	51.631	ug/l	100
11) Tert butyl alcohol	2.953	59	77545	243.081	ug/l	100
12) 1,1-Dichloroethene	2.337	96	193069	48.359	ug/l	100
13) Acrolein	2.246	56	84088	238.671	ug/l	100
14) Allyl chloride	2.678	41	347253	48.854	ug/l	100
15) Acrylonitrile	3.075	53	453047	244.641	ug/l	100
16) Acetone	2.386	43	355803	235.495	ug/l	100
17) Carbon Disulfide	2.532	76	494153	47.196	ug/l	100
18) Methyl Acetate	2.715	43	203643	51.137	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	562569	49.898	ug/l	100
20) Methylene Chloride	2.800	84	215411	48.215	ug/l	100
21) trans-1,2-Dichloroethene	3.105	96	199150	48.748	ug/l	100
22) Diisopropyl ether	3.770	45	701332	51.071	ug/l	100
23) Vinyl Acetate	3.733	43	2620249	254.689	ug/l	100
24) 1,1-Dichloroethane	3.623	63	382510	48.841	ug/l	100
25) 2-Butanone	4.562	43	506469	251.252	ug/l	100
26) 2,2-Dichloropropane	4.489	77	280159	48.066	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	243080	48.734	ug/l	100
28) Bromochloromethane	4.910	49	194431	50.303	ug/l	100
29) Tetrahydrofuran	5.007	42	322800	251.209	ug/l	100
30) Chloroform	5.105	83	386035	48.247	ug/l	100
31) Cyclohexane	5.483	56	337894	48.598	ug/l	100
32) 1,1,1-Trichloroethane	5.397	97	326288	48.811	ug/l	100
36) 1,1-Dichloropropene	5.702	75	264243	47.988	ug/l	100
37) Ethyl Acetate	4.721	43	216259	46.111	ug/l	100
38) Carbon Tetrachloride	5.690	117	286310	48.549	ug/l	100
39) Methylcyclohexane	7.385	83	341159	49.529	ug/l	100
40) Benzene	6.050	78	815341	48.954	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046863.D
 Acq On : 02 Jul 2025 13:39
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:32:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	127915	51.128	ug/l	100
42) 1,2-Dichloroethane	6.092	62	276628	48.913	ug/l	100
43) Isopropyl Acetate	6.342	43	371859	51.765	ug/l	100
44) Trichloroethene	7.129	130	206841	47.708	ug/l	100
45) 1,2-Dichloropropane	7.434	63	207864	49.398	ug/l	100
46) Dibromomethane	7.586	93	144114	49.430	ug/l	100
47) Bromodichloromethane	7.824	83	306696	49.265	ug/l	100
48) Methyl methacrylate	7.696	41	193493	52.165	ug/l	100
49) 1,4-Dioxane	7.659	88	43664	1015.947	ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	1101634	259.847	ug/l	100
52) Toluene	8.720	92	505397	48.969	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	284038	51.124	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	320678	50.567	ug/l	100
55) 1,1,2-Trichloroethane	9.153	97	191073	49.704	ug/l	100
56) Ethyl methacrylate	9.116	69	276170	51.905	ug/l	100
57) 1,3-Dichloropropane	9.305	76	325345	49.150	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	802354	267.636	ug/l	100
59) 2-Hexanone	9.427	43	742855	264.164	ug/l	100
60) Dibromochloromethane	9.519	129	226427	49.218	ug/l	100
61) 1,2-Dibromoethane	9.610	107	192320	49.814	ug/l	100
64) Tetrachloroethene	9.275	164	170176	47.341	ug/l	100
65) Chlorobenzene	10.079	112	566582	48.538	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	193638	49.347	ug/l	100
67) Ethyl Benzene	10.189	91	987806	49.415	ug/l	100
68) m/p-Xylenes	10.299	106	743275	98.674	ug/l	100
69) o-Xylene	10.640	106	358798	49.311	ug/l	100
70) Styrene	10.653	104	634597	50.976	ug/l	100
71) Bromoform	10.799	173	145282	49.794	ug/l #	100
73) Isopropylbenzene	10.957	105	960979	51.232	ug/l	100
74) N-amyl acetate	10.842	43	338897	53.169	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	256928	49.814	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	210006m	50.937	ug/l	
77) Bromobenzene	11.195	156	233851	50.052	ug/l	100
78) n-propylbenzene	11.299	91	1145518	50.647	ug/l	100
79) 2-Chlorotoluene	11.360	91	662335	49.595	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	780315	51.198	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	77831	50.659	ug/l	100
82) 4-Chlorotoluene	11.451	91	777681	50.461	ug/l	100
83) tert-Butylbenzene	11.713	119	805925	51.197	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	786934	51.082	ug/l	100
85) sec-Butylbenzene	11.884	105	1009027	50.840	ug/l	100
86) p-Isopropyltoluene	12.006	119	843813	50.770	ug/l	100
87) 1,3-Dichlorobenzene	11.963	146	434168	49.687	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	435439	47.882	ug/l	100
89) n-Butylbenzene	12.329	91	797119	51.042	ug/l	100
90) Hexachloroethane	12.536	117	147768	50.152	ug/l	100
91) 1,2-Dichlorobenzene	12.329	146	418287	49.398	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	45584	50.530	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	290148	50.438	ug/l	100
94) Hexachlorobutadiene	13.719	225	109236	50.352	ug/l	100
95) Naphthalene	13.774	128	809540	53.405	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	278713	51.278	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046863.D
Acq On : 02 Jul 2025 13:39
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:32:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration

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

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

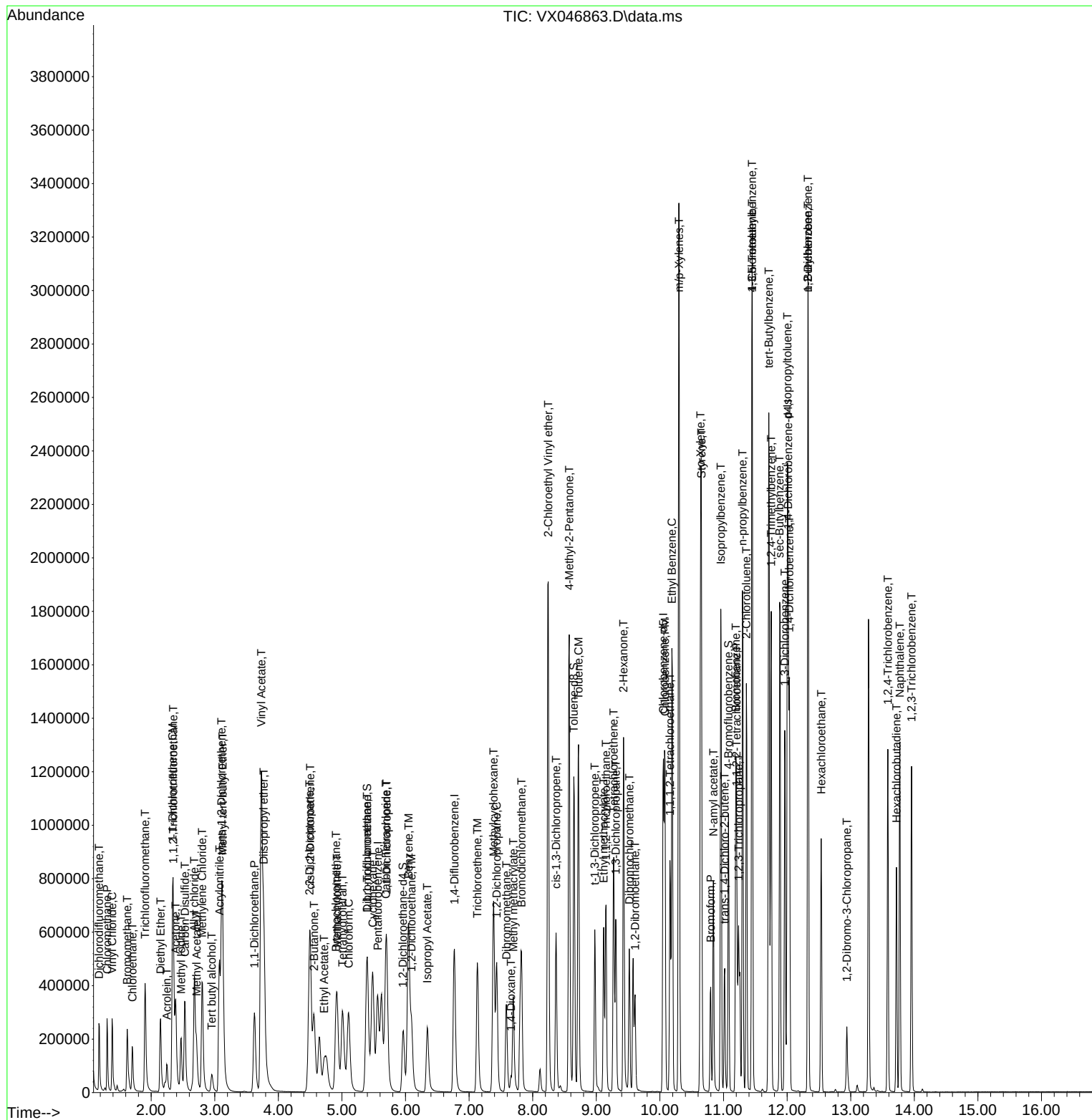
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046863.D
Acq On    : 02 Jul 2025  13:39
Operator  : JC/MD
Sample    : VSTDICCC050
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 5      Sample Multiplier: 1
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Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:32:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046864.D
 Acq On : 02 Jul 2025 14:10
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:33:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	360099	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	591959	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	521464	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	253960	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	461552	97.021	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 194.040%#			
35) Dibromofluoromethane	5.385	113	393465	97.920	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 195.840%#			
50) Toluene-d8	8.647	98	1373545	96.884	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 193.760%#			
62) 4-Bromofluorobenzene	11.079	95	513224	95.251	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 190.500%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.179	85	361969	105.107	ug/l	99
3) Chloromethane	1.307	50	391364	104.014	ug/l	98
4) Vinyl Chloride	1.386	62	424193	103.527	ug/l	100
5) Bromomethane	1.618	94	265849	100.979	ug/l	100
6) Chloroethane	1.697	64	260651	96.337	ug/l	99
7) Trichlorofluoromethane	1.904	101	643202	101.523	ug/l	98
8) Diethyl Ether	2.142	74	228526	101.358	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.343	101	412204	102.105	ug/l	99
10) Methyl Iodide	2.465	142	490208	111.457	ug/l	99
11) Tert butyl alcohol	2.953	59	156192	500.607	ug/l	99
12) 1,1-Dichloroethene	2.331	96	393053	100.660	ug/l	97
13) Acrolein	2.245	56	173378	500.012	ug/l	100
14) Allyl chloride	2.672	41	711428	102.334	ug/l	99
15) Acrylonitrile	3.068	53	898537	496.093	ug/l	100
16) Acetone	2.380	43	707647	478.882	ug/l	98
17) Carbon Disulfide	2.526	76	1006664	98.304	ug/l	99
18) Methyl Acetate	2.709	43	410853	105.486	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	1142805	103.638	ug/l	98
20) Methylene Chloride	2.800	84	428892	98.153	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	396705	99.285	ug/l	97
22) Diisopropyl ether	3.764	45	1387980	103.342	ug/l	97
23) Vinyl Acetate	3.727	43	5276627	524.403	ug/l	100
24) 1,1-Dichloroethane	3.617	63	759957	99.213	ug/l	100
25) 2-Butanone	4.550	43	992659	503.497	ug/l	99
26) 2,2-Dichloropropane	4.483	77	577382	101.283	ug/l	100
27) cis-1,2-Dichloroethene	4.495	96	482620	98.931	ug/l	100
28) Bromochloromethane	4.904	49	371458	98.260	ug/l	100
29) Tetrahydrofuran	5.001	42	640795	509.872	ug/l	99
30) Chloroform	5.099	83	757773	96.834	ug/l	100
31) Cyclohexane	5.477	56	667229	98.120	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	649123	99.286	ug/l	99
36) 1,1-Dichloropropene	5.696	75	514002	94.809	ug/l	99
37) Ethyl Acetate	4.715	43	420101	90.979	ug/l	98
38) Carbon Tetrachloride	5.684	117	567706	97.774	ug/l	98
39) Methylcyclohexane	7.379	83	683852	100.837	ug/l	99
40) Benzene	6.044	78	1589318	96.921	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046864.D
 Acq On : 02 Jul 2025 14:10
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:33:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	261090	105.996	ug/l	99
42) 1,2-Dichloroethane	6.086	62	536004	96.261	ug/l	100
43) Isopropyl Acetate	6.336	43	746174	105.501	ug/l	100
44) Trichloroethene	7.123	130	411222	96.336	ug/l	98
45) 1,2-Dichloropropane	7.427	63	408244	98.538	ug/l	100
46) Dibromomethane	7.580	93	279372	97.324	ug/l	99
47) Bromodichloromethane	7.818	83	601292	98.101	ug/l	98
48) Methyl methacrylate	7.690	41	389200	106.573	ug/l	100
49) 1,4-Dioxane	7.659	88	82890	1958.872	ug/l	97
51) 4-Methyl-2-Pentanone	8.568	43	2089507	500.587	ug/l	99
52) Toluene	8.714	92	984220	96.858	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	580117	106.052	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	650539	104.190	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	367441	97.082	ug/l	98
56) Ethyl methacrylate	9.116	69	554620	105.873	ug/l	99
57) 1,3-Dichloropropane	9.305	76	625220	95.933	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	1541497	522.248	ug/l	100
59) 2-Hexanone	9.427	43	1406681	508.068	ug/l	100
60) Dibromochloromethane	9.519	129	445393	98.331	ug/l	99
61) 1,2-Dibromoethane	9.604	107	375661	98.827	ug/l	99
64) Tetrachloroethene	9.269	164	333229	95.978	ug/l	95
65) Chlorobenzene	10.073	112	1095855	97.200	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	381396	100.632	ug/l	99
67) Ethyl Benzene	10.189	91	1925349	99.720	ug/l	99
68) m/p-Xylenes	10.299	106	1424898	195.851	ug/l	99
69) o-Xylene	10.640	106	691874	98.448	ug/l	99
70) Styrene	10.653	104	1206962	100.381	ug/l	99
71) Bromoform	10.799	173	286378	101.623	ug/l	100
73) Isopropylbenzene	10.957	105	1824241	102.183	ug/l	100
74) N-amyl acetate	10.842	43	661864	109.100	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	477117	97.192	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	401735m	102.378	ug/l	
77) Bromobenzene	11.195	156	441962	99.388	ug/l	98
78) n-propylbenzene	11.299	91	2169188	100.767	ug/l	99
79) 2-Chlorotoluene	11.360	91	1268825	99.822	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	1497082	103.204	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	158326	108.273	ug/l	98
82) 4-Chlorotoluene	11.451	91	1472712	100.402	ug/l	100
83) tert-Butylbenzene	11.713	119	1539450	102.751	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	1488102	101.492	ug/l	97
85) sec-Butylbenzene	11.890	105	1912633	101.251	ug/l	99
86) p-Isopropyltoluene	12.006	119	1605082	101.466	ug/l	100
87) 1,3-Dichlorobenzene	11.963	146	825505	99.260	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	823926	95.192	ug/l	100
89) n-Butylbenzene	12.329	91	1515258	101.944	ug/l	100
90) Hexachloroethane	12.536	117	294961	105.182	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	792536	98.339	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	90270	105.136	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	569410	104.000	ug/l	100
94) Hexachlorobutadiene	13.725	225	207095	100.298	ug/l	99
95) Naphthalene	13.774	128	1572381	108.986	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	543127	104.988	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046864.D
Acq On : 02 Jul 2025 14:10
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration

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

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

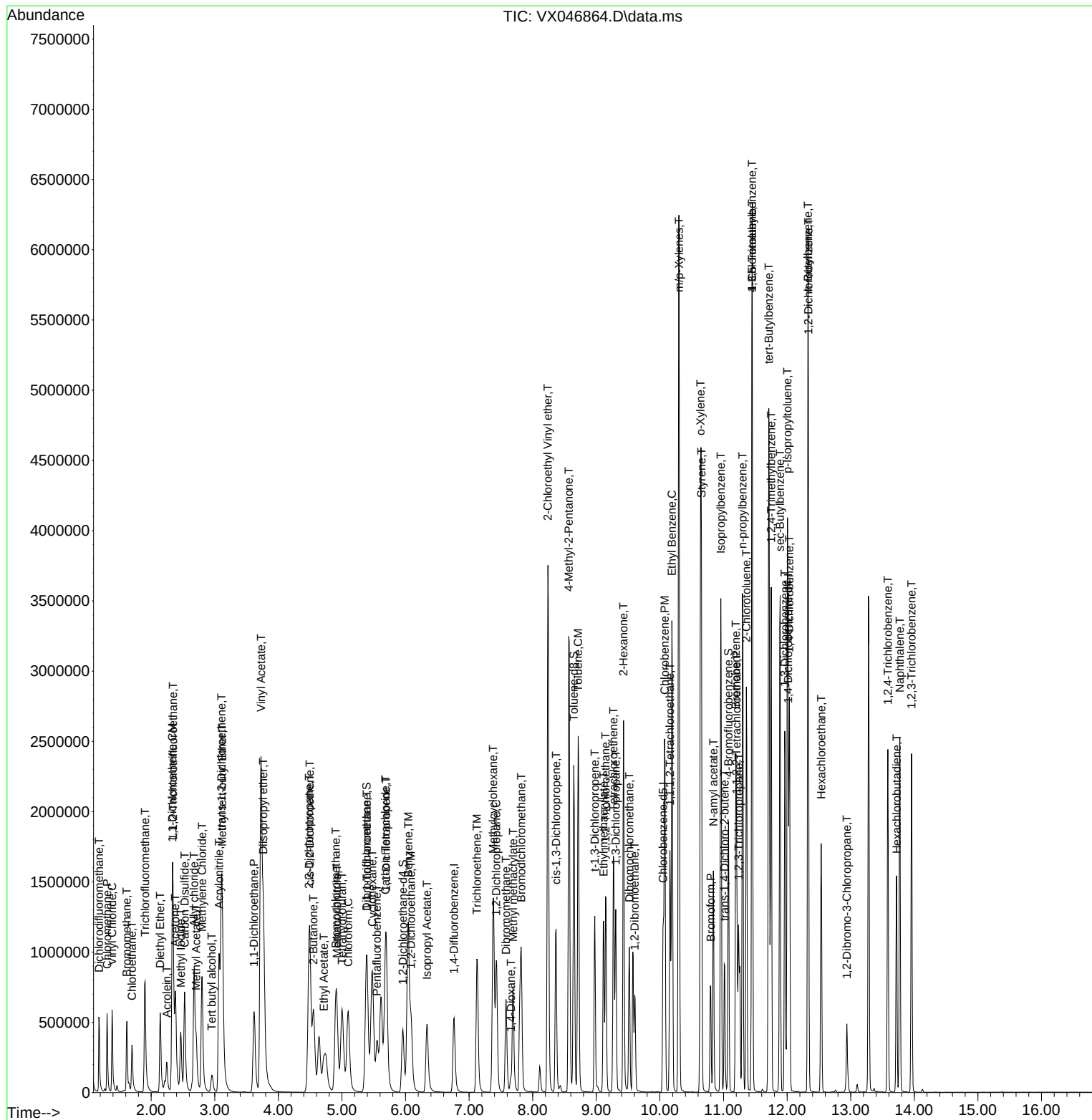
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\  
Data File : VX046864.D  
Acq On    : 02 Jul 2025   14:10  
Operator  : JC/MD  
Sample    : VSTDICC100  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 6      Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046865.D
 Acq On : 02 Jul 2025 14:31
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:34:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	337940	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	564585	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	498758	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	240348	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	649303	145.436	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 290.880%#	
35) Dibromofluoromethane	5.391	113	550160	143.554	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 287.100%#	
50) Toluene-d8	8.653	98	1923179	142.230	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 284.460%#	
62) 4-Bromofluorobenzene	11.079	95	721016	140.303	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 280.600%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	497096	153.809	ug/l	99
3) Chloromethane	1.307	50	537388	152.188	ug/l	98
4) Vinyl Chloride	1.386	62	574277	149.346	ug/l	99
5) Bromomethane	1.611	94	298828	120.949	ug/l	100
6) Chloroethane	1.697	64	358739	141.285	ug/l	99
7) Trichlorofluoromethane	1.904	101	897728	150.988	ug/l	99
8) Diethyl Ether	2.148	74	321838	152.105	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.343	101	569627	150.352	ug/l	99
10) Methyl Iodide	2.465	142	705949	171.034	ug/l	98
11) Tert butyl alcohol	2.965	59	229819	784.885	ug/l	99
12) 1,1-Dichloroethene	2.337	96	547474	149.400	ug/l	97
13) Acrolein	2.245	56	245973	754.434	ug/l	98
14) Allyl chloride	2.678	41	996540	152.745	ug/l	99
15) Acrylonitrile	3.075	53	1288046	757.776	ug/l	99
16) Acetone	2.386	43	1013283	730.677	ug/l	99
17) Carbon Disulfide	2.526	76	1394541	145.111	ug/l	99
18) Methyl Acetate	2.709	43	607185	166.116	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	1637759	158.264	ug/l	98
20) Methylene Chloride	2.800	84	596413	145.441	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	552703	147.398	ug/l	97
22) Diisopropyl ether	3.770	45	1919430	152.282	ug/l	99
23) Vinyl Acetate	3.733	43	7476523	791.755	ug/l	100
24) 1,1-Dichloroethane	3.623	63	1064068	148.024	ug/l	100
25) 2-Butanone	4.562	43	1449681	783.522	ug/l	100
26) 2,2-Dichloropropane	4.489	77	837466	156.539	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	674986	147.435	ug/l	100
28) Bromochloromethane	4.910	49	515523	145.311	ug/l	99
29) Tetrahydrofuran	5.007	42	928390	787.145	ug/l	100
30) Chloroform	5.105	83	1064448	144.942	ug/l	100
31) Cyclohexane	5.483	56	939695	147.249	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	922378	150.332	ug/l	98
36) 1,1-Dichloropropene	5.702	75	739394	142.995	ug/l	99
37) Ethyl Acetate	4.721	43	631521	143.396	ug/l	98
38) Carbon Tetrachloride	5.684	117	809906	146.250	ug/l	98
39) Methylcyclohexane	7.385	83	974901	150.724	ug/l	99
40) Benzene	6.043	78	2243029	143.418	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046865.D
 Acq On : 02 Jul 2025 14:31
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:34:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	375761	159.945	ug/l	99
42) 1,2-Dichloroethane	6.092	62	756183	142.387	ug/l	100
43) Isopropyl Acetate	6.342	43	1104335	163.711	ug/l	100
44) Trichloroethene	7.129	130	583397	143.298	ug/l	97
45) 1,2-Dichloropropane	7.433	63	579224	146.587	ug/l	99
46) Dibromomethane	7.586	93	401338	146.592	ug/l	99
47) Bromodichloromethane	7.824	83	858188	146.803	ug/l	99
48) Methyl methacrylate	7.696	41	580607	166.693	ug/l	99
49) 1,4-Dioxane	7.665	88	122695	3040.136	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	3026947	760.332	ug/l	98
52) Toluene	8.720	92	1394797	143.918	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	853017	163.503	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	939003	157.682	ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	521889	144.574	ug/l	98
56) Ethyl methacrylate	9.116	69	816206	163.362	ug/l	100
57) 1,3-Dichloropropane	9.305	76	893213	143.699	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	2192288	778.743	ug/l	100
59) 2-Hexanone	9.427	43	2051712	776.972	ug/l	100
60) Dibromochloromethane	9.518	129	637739	147.623	ug/l	99
61) 1,2-Dibromoethane	9.610	107	536592	148.009	ug/l	100
64) Tetrachloroethene	9.275	164	475745	143.265	ug/l	96
65) Chlorobenzene	10.079	112	1563433	144.986	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	548552	151.325	ug/l	100
67) Ethyl Benzene	10.195	91	2729559	147.809	ug/l	98
68) m/p-Xylenes	10.299	106	2009645	288.799	ug/l	99
69) o-Xylene	10.640	106	987134	146.856	ug/l	99
70) Styrene	10.652	104	1697064	147.567	ug/l	98
71) Bromoform	10.799	173	411264	152.584	ug/l	97
73) Isopropylbenzene	10.963	105	2588441	153.200	ug/l	100
74) N-amyl acetate	10.841	43	986018	171.738	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	698105	150.263	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	567147m	152.717	ug/l	
77) Bromobenzene	11.195	156	628974	149.454	ug/l	99
78) n-propylbenzene	11.305	91	3052066	149.810	ug/l	99
79) 2-Chlorotoluene	11.360	91	1784161	148.315	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	2088013	152.092	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	239775	173.259	ug/l	95
82) 4-Chlorotoluene	11.451	91	2061746	148.519	ug/l	99
83) tert-Butylbenzene	11.713	119	2164507	152.653	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	2118023	152.635	ug/l	97
85) sec-Butylbenzene	11.890	105	2681731	150.005	ug/l	99
86) p-Isopropyltoluene	12.006	119	2218491	148.186	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	1167669	148.354	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	1176579	143.634	ug/l	99
89) n-Butylbenzene	12.329	91	2101194	149.371	ug/l	99
90) Hexachloroethane	12.536	117	424369	159.899	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	1117598	146.526	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	138617	170.588	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	825907	159.391	ug/l	99
94) Hexachlorobutadiene	13.725	225	296507	151.734	ug/l	99
95) Naphthalene	13.774	128	2359854	172.832	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	792593	161.887	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046865.D
Acq On : 02 Jul 2025 14:31
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:34:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration

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

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

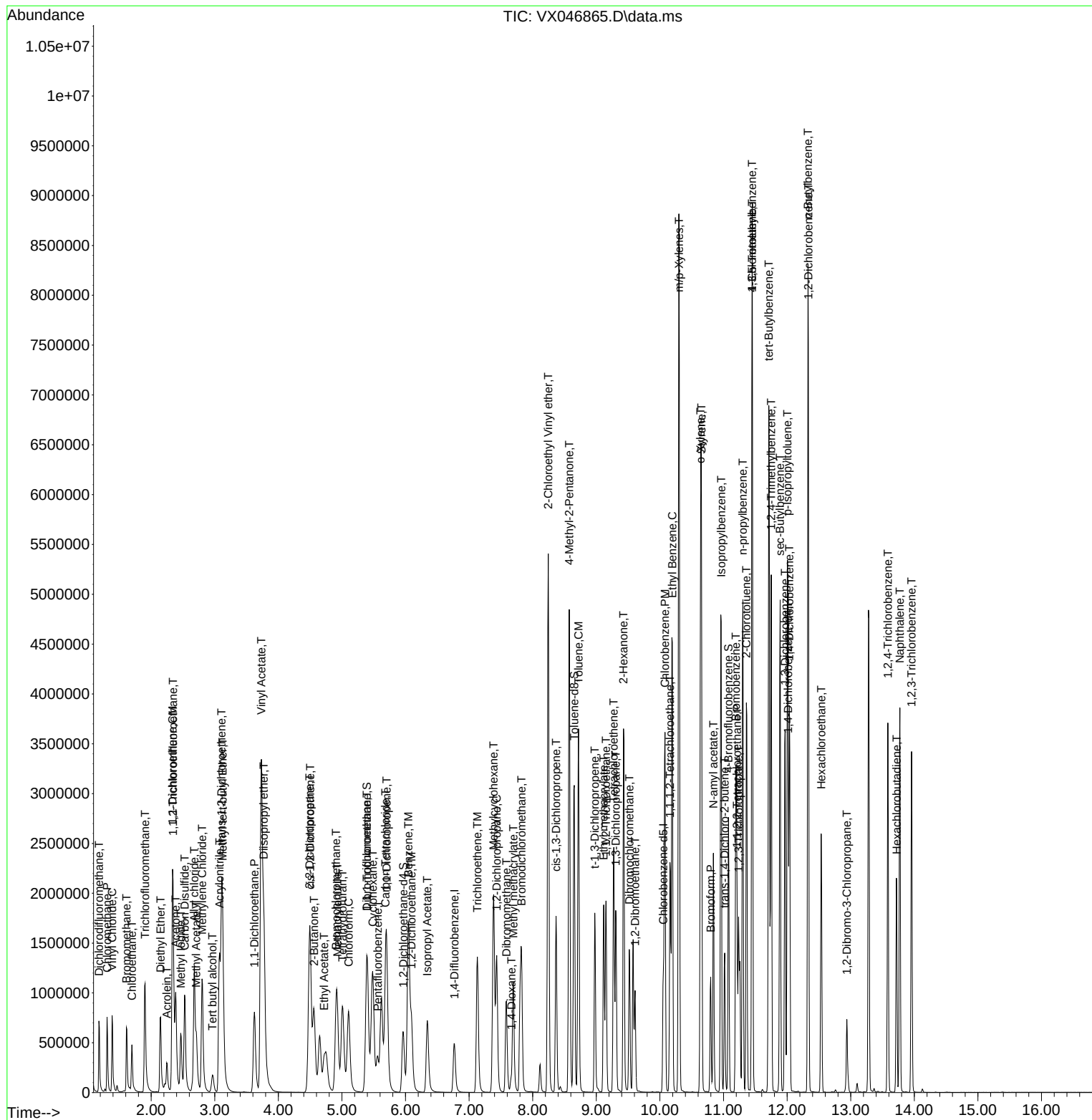
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Data File : VX046865.D
Acq On : 02 Jul 2025 14:31
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:34:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046867.D
 Acq On : 02 Jul 2025 15:14
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX070225

Quant Time: Jul 03 05:55:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	376229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	610660	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	549326	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	275295	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	242648	48.819	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	97.640%		
35) Dibromofluoromethane	5.397	113	208822	50.377	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.760%		
50) Toluene-d8	8.647	98	731941	50.047	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	100.100%		
62) 4-Bromofluorobenzene	11.079	95	282463	50.818	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	101.640%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.179	85	178684	49.661	ug/l	98
3) Chloromethane	1.307	50	192497	48.967	ug/l	100
4) Vinyl Chloride	1.386	62	208626	48.733	ug/l	99
5) Bromomethane	1.624	94	141065	51.285	ug/l	97
6) Chloroethane	1.703	64	132155	46.751	ug/l	100
7) Trichlorofluoromethane	1.904	101	326501	49.325	ug/l	98
8) Diethyl Ether	2.148	74	117004	49.670	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.349	101	208780	49.499	ug/l	100
10) Methyl Iodide	2.471	142	229855	50.021	ug/l	97
11) Tert butyl alcohol	2.953	59	86884	266.531	ug/l	100
12) 1,1-Dichloroethene	2.337	96	197950	48.521	ug/l	99
13) Acrolein	2.252	56	87230	242.250	ug/l	98
14) Allyl chloride	2.678	41	359895	49.549	ug/l	99
15) Acrylonitrile	3.075	53	482124	255.809	ug/l	99
16) Acetone	2.386	43	376127	243.622	ug/l	97
17) Carbon Disulfide	2.532	76	501161	46.842	ug/l	100
18) Methyl Acetate	2.715	43	217113	53.354	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	601377	52.199	ug/l	99
20) Methylene Chloride	2.800	84	224143	49.097	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	205950	49.334	ug/l	99
22) Diisopropyl ether	3.770	45	723627	51.568	ug/l	97
23) Vinyl Acetate	3.733	43	2777219	264.173	ug/l	99
24) 1,1-Dichloroethane	3.623	63	395739	49.449	ug/l	99
25) 2-Butanone	4.562	43	538755	261.552	ug/l	98
26) 2,2-Dichloropropane	4.489	77	293933	49.351	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	247860	48.630	ug/l	99
28) Bromochloromethane	4.910	49	198401	50.232	ug/l	98
29) Tetrahydrofuran	5.013	42	350947	267.272	ug/l	99
30) Chloroform	5.105	83	395292	48.348	ug/l	100
31) Cyclohexane	5.483	56	350463	49.328	ug/l	97
32) 1,1,1-Trichloroethane	5.397	97	335397	49.101	ug/l	99
36) 1,1-Dichloropropene	5.702	75	275506	49.261	ug/l	100
37) Ethyl Acetate	4.721	43	229364	48.151	ug/l	100
38) Carbon Tetrachloride	5.690	117	291659	49.327	ug/l	99
39) Methylcyclohexane	7.385	83	355028	50.747	ug/l	98
40) Benzene	6.050	78	835235	49.375	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046867.D
 Acq On : 02 Jul 2025 15:14
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX070225

Quant Time: Jul 03 05:55:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	137841	54.246	ug/l	98
42) 1,2-Dichloroethane	6.092	62	282094	49.110	ug/l	100
43) Isopropyl Acetate	6.342	43	390969	53.586	ug/l	99
44) Trichloroethene	7.129	130	212780	48.321	ug/l	100
45) 1,2-Dichloropropane	7.434	63	213351	49.920	ug/l	98
46) Dibromomethane	7.586	93	146563	49.494	ug/l	100
47) Bromodichloromethane	7.824	83	313088	49.516	ug/l	97
48) Methyl methacrylate	7.696	41	206773	54.886	ug/l	99
49) 1,4-Dioxane	7.659	88	47208	1081.463	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	1163206	270.137	ug/l	100
52) Toluene	8.720	92	524414	50.028	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	298344	52.871	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	334998	52.010	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	194738	49.876	ug/l	98
56) Ethyl methacrylate	9.116	69	294579	54.511	ug/l	99
57) 1,3-Dichloropropane	9.305	76	334325	49.728	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.245	63	817519	268.488	ug/l	100
59) 2-Hexanone	9.427	43	792449	277.453	ug/l	100
60) Dibromochloromethane	9.519	129	234044	50.089	ug/l	99
61) 1,2-Dibromoethane	9.610	107	200842	51.219	ug/l	100
64) Tetrachloroethene	9.275	164	174726	47.773	ug/l	93
65) Chlorobenzene	10.080	112	584424	49.208	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	199525	49.975	ug/l	99
67) Ethyl Benzene	10.189	91	1013473	49.829	ug/l	99
68) m/p-Xylenes	10.299	106	760571	99.238	ug/l	100
69) o-Xylene	10.640	106	368751	49.809	ug/l	99
70) Styrene	10.653	104	644744	50.903	ug/l	100
71) Bromoform	10.799	173	147395	49.651	ug/l #	99
73) Isopropylbenzene	10.957	105	981991	50.742	ug/l	100
74) N-amyl acetate	10.842	43	359547	54.674	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	269327	50.612	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	218733m	51.422	ug/l	
77) Bromobenzene	11.195	156	237950	49.363	ug/l	99
78) n-propylbenzene	11.299	91	1172148	50.231	ug/l	100
79) 2-Chlorotoluene	11.360	91	678845	49.268	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	808534	51.418	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	82807	52.240	ug/l	99
82) 4-Chlorotoluene	11.451	91	802710	50.483	ug/l	100
83) tert-Butylbenzene	11.713	119	826920	50.916	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	801503	50.428	ug/l	100
85) sec-Butylbenzene	11.890	105	1032626	50.429	ug/l	100
86) p-Isopropyltoluene	12.006	119	867283	50.577	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	446776	49.558	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	448682	47.821	ug/l	99
89) n-Butylbenzene	12.329	91	817746	50.753	ug/l	99
90) Hexachloroethane	12.536	117	151888	49.965	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	424172	48.553	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	48557	52.171	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	301081	50.729	ug/l	99
94) Hexachlorobutadiene	13.719	225	117882	52.667	ug/l	99
95) Naphthalene	13.774	128	844747	54.014	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	285334	50.881	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046867.D
Acq On : 02 Jul 2025 15:14
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

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

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

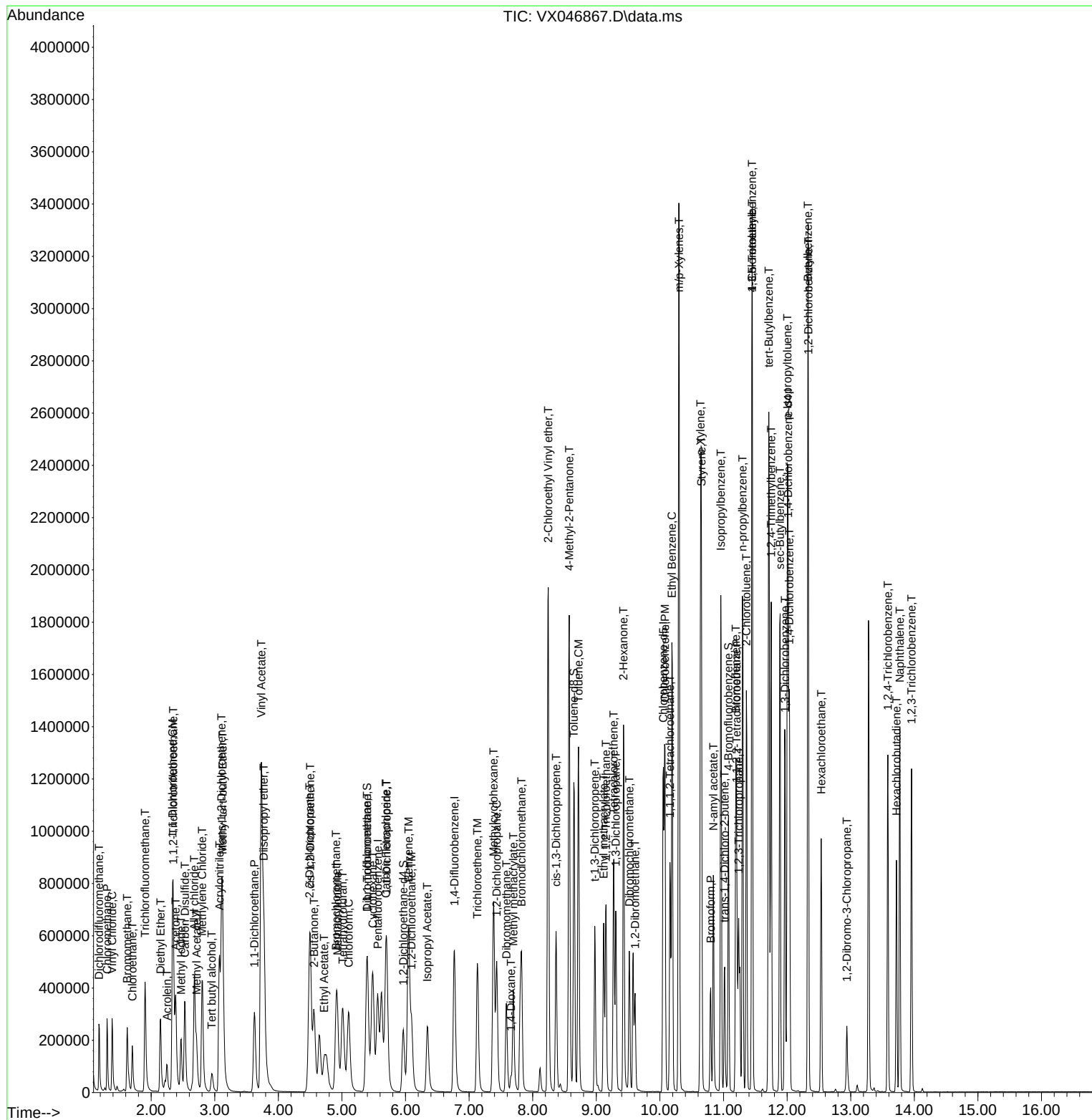
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046867.D
 Acq On : 02 Jul 2025 15:14
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX070225

Quant Time: Jul 03 05:55:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046867.D
 Acq On : 02 Jul 2025 15:14
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX070225

Quant Time: Jul 03 05:55:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	102	0.00
2 T	Dichlorodifluoromethane	0.478	0.475	0.6	100	0.00
3 P	Chloromethane	0.522	0.512	1.9	103	0.00
4 C	Vinyl Chloride	0.569	0.555	2.5#	103	0.00
5 T	Bromomethane	0.366	0.375	-2.5	107	0.00
6 T	Chloroethane	0.376	0.351	6.6	104	0.00
7 T	Trichlorofluoromethane	0.880	0.868	1.4	103	0.00
8 T	Diethyl Ether	0.313	0.311	0.6	104	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.561	0.555	1.1	103	0.00
10 T	Methyl Iodide	0.611	0.611	0.0	99	0.00
11 T	Tert butyl alcohol	0.043	0.046	-7.0	112	0.00
12 CM	1,1-Dichloroethene	0.542	0.526	3.0#	103	0.00
13 T	Acrolein	0.052	0.046	11.5	104	0.00
14 T	Allyl chloride	0.965	0.957	0.8	104	0.00
15 T	Acrylonitrile	0.250	0.256	-2.4	106	0.00
16 T	Acetone	0.205	0.200	2.4	106	0.00
17 T	Carbon Disulfide	1.422	1.332	6.3	101	0.00
18 T	Methyl Acetate	0.541	0.577	-6.7	107	0.00
19 T	Methyl tert-butyl Ether	1.531	1.598	-4.4	107	0.00
20 T	Methylene Chloride	0.607	0.596	1.8	104	0.00
21 T	trans-1,2-Dichloroethene	0.555	0.547	1.4	103	0.00
22 T	Diisopropyl ether	1.865	1.923	-3.1	103	0.00
23 T	Vinyl Acetate	1.397	1.476	-5.7	106	0.00
24 P	1,1-Dichloroethane	1.064	1.052	1.1	103	0.00
25 T	2-Butanone	0.274	0.286	-4.4	106	0.00
26 T	2,2-Dichloropropane	0.792	0.781	1.4	105	0.00
27 T	cis-1,2-Dichloroethene	0.677	0.659	2.7	102	0.00
28 T	Bromochloromethane	0.525	0.527	-0.4	102	0.00
29 T	Tetrahydrofuran	0.175	0.187	-6.9	109	0.00
30 C	Chloroform	1.087	1.051	3.3#	102	0.00
31 T	Cyclohexane	0.944	0.932	1.3	104	0.00
32 T	1,1,1-Trichloroethane	0.908	0.891	1.9	103	0.00
33 S	1,2-Dichloroethane-d4	0.661	0.645	2.4	102	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35 S	Dibromofluoromethane	0.339	0.342	-0.9	102	0.00
36 T	1,1-Dichloropropene	0.458	0.451	1.5	104	0.00
37 T	Ethyl Acetate	0.390	0.376	3.6	106	0.00
38 T	Carbon Tetrachloride	0.484	0.478	1.2	102	0.00
39 T	Methylcyclohexane	0.573	0.581	-1.4	104	0.00
40 TM	Benzene	1.385	1.368	1.2	102	0.00
41 T	Methacrylonitrile	0.208	0.226	-8.7	108	0.00
42 TM	1,2-Dichloroethane	0.470	0.462	1.7	102	0.00
43 T	Isopropyl Acetate	0.597	0.640	-7.2	105	0.00
44 TM	Trichloroethene	0.361	0.348	3.6	103	0.00
45 C	1,2-Dichloropropane	0.350	0.349	0.3#	103	0.00
46 T	Dibromomethane	0.242	0.240	0.8	102	0.00
47 T	Bromodichloromethane	0.518	0.513	1.0	102	0.00
48 T	Methyl methacrylate	0.308	0.339	-10.1	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046867.D
 Acq On : 02 Jul 2025 15:14
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX070225

Quant Time: Jul 03 05:55:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.004	0.004	0.0	108	0.00
50 S	Toluene-d8	1.197	1.199	-0.2	102	0.00
51 T	4-Methyl-2-Pentanone	0.353	0.381	-7.9	106	0.00
52 CM	Toluene	0.858	0.859	-0.1#	104	0.00
53 T	t-1,3-Dichloropropene	0.462	0.489	-5.8	105	0.00
54 T	cis-1,3-Dichloropropene	0.527	0.549	-4.2	104	0.00
55 T	1,1,2-Trichloroethane	0.320	0.319	0.3	102	0.00
56 T	Ethyl methacrylate	0.442	0.482	-9.0	107	0.00
57 T	1,3-Dichloropropane	0.550	0.547	0.5	103	0.00
58 T	2-Chloroethyl Vinyl ether	0.249	0.268	-7.6	102	0.00
59 T	2-Hexanone	0.234	0.260	-11.1	107	0.00
60 T	Dibromochloromethane	0.383	0.383	0.0	103	0.00
61 T	1,2-Dibromoethane	0.321	0.329	-2.5	104	0.00
62 S	4-Bromofluorobenzene	0.455	0.463	-1.8	103	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64 T	Tetrachloroethene	0.333	0.318	4.5	103	0.00
65 PM	Chlorobenzene	1.081	1.064	1.6	103	0.00
66 T	1,1,1,2-Tetrachloroethane	0.363	0.363	0.0	103	0.00
67 C	Ethyl Benzene	1.851	1.845	0.3#	103	0.00
68 T	m/p-Xylenes	0.698	0.692	0.9	102	0.00
69 T	o-Xylene	0.674	0.671	0.4	103	0.00
70 T	Styrene	1.153	1.174	-1.8	102	0.00
71 P	Bromoform	0.270	0.268	0.7	101	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73 T	Isopropylbenzene	3.515	3.567	-1.5	102	0.00
74 T	N-amyl acetate	1.194	1.306	-9.4	106	0.00
75 P	1,1,2,2-Tetrachloroethane	0.966	0.978	-1.2	105	0.00
76 T	1,2,3-Trichloropropane	0.773	0.795	-2.8	104	0.00
77 T	Bromobenzene	0.875	0.864	1.3	102	0.00
78 T	n-propylbenzene	4.238	4.258	-0.5	102	0.00
79 T	2-Chlorotoluene	2.503	2.466	1.5	102	0.00
80 T	1,3,5-Trimethylbenzene	2.856	2.937	-2.8	104	0.00
81 T	trans-1,4-Dichloro-2-butene	0.288	0.301	-4.5	106	0.00
82 T	4-Chlorotoluene	2.888	2.916	-1.0	103	0.00
83 T	tert-Butylbenzene	2.950	3.004	-1.8	103	0.00
84 T	1,2,4-Trimethylbenzene	2.887	2.911	-0.8	102	0.00
85 T	sec-Butylbenzene	3.719	3.751	-0.9	102	0.00
86 T	p-Isopropyltoluene	3.114	3.150	-1.2	103	0.00
87 T	1,3-Dichlorobenzene	1.637	1.623	0.9	103	0.00
88 T	1,4-Dichlorobenzene	1.704	1.630	4.3	103	0.00
89 T	n-Butylbenzene	2.926	2.970	-1.5	103	0.00
90 T	Hexachloroethane	0.552	0.552	0.0	103	0.00
91 T	1,2-Dichlorobenzene	1.587	1.541	2.9	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.169	0.176	-4.1	107	0.00
93 T	1,2,4-Trichlorobenzene	1.078	1.094	-1.5	104	0.00
94 T	Hexachlorobutadiene	0.407	0.428	-5.2	108	0.00
95 T	Naphthalene	2.840	3.069	-8.1	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046867.D
Acq On : 02 Jul 2025 15:14
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Quant Time: Jul 03 05:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.019	1.036	-1.7	102	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\X070225\
 Data File : VX046867.D
 Acq On : 02 Jul 2025 15:14
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX070225

Quant Time: Jul 03 05:55:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	102	0.00
2 T	Dichlorodifluoromethane	50.000	49.661	0.7	100	0.00
3 P	Chloromethane	50.000	48.967	2.1	103	0.00
4 C	Vinyl Chloride	50.000	48.733	2.5#	103	0.00
5 T	Bromomethane	50.000	51.285	-2.6	107	0.00
6 T	Chloroethane	50.000	46.751	6.5	104	0.00
7 T	Trichlorofluoromethane	50.000	49.325	1.3	103	0.00
8 T	Diethyl Ether	50.000	49.670	0.7	104	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.499	1.0	103	0.00
10 T	Methyl Iodide	50.000	50.021	-0.0	99	0.00
11 T	Tert butyl alcohol	250.000	266.531	-6.6	112	0.00
12 CM	1,1-Dichloroethene	50.000	48.521	3.0#	103	0.00
13 T	Acrolein	250.000	242.250	3.1	104	0.00
14 T	Allyl chloride	50.000	49.549	0.9	104	0.00
15 T	Acrylonitrile	250.000	255.809	-2.3	106	0.00
16 T	Acetone	250.000	243.622	2.6	106	0.00
17 T	Carbon Disulfide	50.000	46.842	6.3	101	0.00
18 T	Methyl Acetate	50.000	53.354	-6.7	107	0.00
19 T	Methyl tert-butyl Ether	50.000	52.199	-4.4	107	0.00
20 T	Methylene Chloride	50.000	49.097	1.8	104	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.334	1.3	103	0.00
22 T	Diisopropyl ether	50.000	51.568	-3.1	103	0.00
23 T	Vinyl Acetate	250.000	264.173	-5.7	106	0.00
24 P	1,1-Dichloroethane	50.000	49.449	1.1	103	0.00
25 T	2-Butanone	250.000	261.552	-4.6	106	0.00
26 T	2,2-Dichloropropane	50.000	49.351	1.3	105	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.630	2.7	102	0.00
28 T	Bromochloromethane	50.000	50.232	-0.5	102	0.00
29 T	Tetrahydrofuran	250.000	267.272	-6.9	109	0.00
30 C	Chloroform	50.000	48.348	3.3#	102	0.00
31 T	Cyclohexane	50.000	49.328	1.3	104	0.00
32 T	1,1,1-Trichloroethane	50.000	49.101	1.8	103	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.819	2.4	102	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35 S	Dibromofluoromethane	50.000	50.377	-0.8	102	0.00
36 T	1,1-Dichloropropene	50.000	49.261	1.5	104	0.00
37 T	Ethyl Acetate	50.000	48.151	3.7	106	0.00
38 T	Carbon Tetrachloride	50.000	49.327	1.3	102	0.00
39 T	Methylcyclohexane	50.000	50.747	-1.5	104	0.00
40 TM	Benzene	50.000	49.375	1.3	102	0.00
41 T	Methacrylonitrile	50.000	54.246	-8.5	108	0.00
42 TM	1,2-Dichloroethane	50.000	49.110	1.8	102	0.00
43 T	Isopropyl Acetate	50.000	53.586	-7.2	105	0.00
44 TM	Trichloroethene	50.000	48.321	3.4	103	0.00
45 C	1,2-Dichloropropane	50.000	49.920	0.2#	103	0.00
46 T	Dibromomethane	50.000	49.494	1.0	102	0.00
47 T	Bromodichloromethane	50.000	49.516	1.0	102	0.00
48 T	Methyl methacrylate	50.000	54.886	-9.8	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046867.D
 Acq On : 02 Jul 2025 15:14
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX070225

Quant Time: Jul 03 05:55:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1081.463	-8.1	108	0.00
50 S	Toluene-d8	50.000	50.047	-0.1	102	0.00
51 T	4-Methyl-2-Pentanone	250.000	270.137	-8.1	106	0.00
52 CM	Toluene	50.000	50.028	-0.1#	104	0.00
53 T	t-1,3-Dichloropropene	50.000	52.871	-5.7	105	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.010	-4.0	104	0.00
55 T	1,1,2-Trichloroethane	50.000	49.876	0.2	102	0.00
56 T	Ethyl methacrylate	50.000	54.511	-9.0	107	0.00
57 T	1,3-Dichloropropane	50.000	49.728	0.5	103	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	268.488	-7.4	102	0.00
59 T	2-Hexanone	250.000	277.453	-11.0	107	0.00
60 T	Dibromochloromethane	50.000	50.089	-0.2	103	0.00
61 T	1,2-Dibromoethane	50.000	51.219	-2.4	104	0.00
62 S	4-Bromofluorobenzene	50.000	50.818	-1.6	103	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64 T	Tetrachloroethene	50.000	47.773	4.5	103	0.00
65 PM	Chlorobenzene	50.000	49.208	1.6	103	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.975	0.0	103	0.00
67 C	Ethyl Benzene	50.000	49.829	0.3#	103	0.00
68 T	m/p-Xylenes	100.000	99.238	0.8	102	0.00
69 T	o-Xylene	50.000	49.809	0.4	103	0.00
70 T	Styrene	50.000	50.903	-1.8	102	0.00
71 P	Bromoform	50.000	49.651	0.7	101	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73 T	Isopropylbenzene	50.000	50.742	-1.5	102	0.00
74 T	N-ethyl acetate	50.000	54.674	-9.3	106	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.612	-1.2	105	0.00
76 T	1,2,3-Trichloropropane	50.000	51.422	-2.8	104	0.00
77 T	Bromobenzene	50.000	49.363	1.3	102	0.00
78 T	n-propylbenzene	50.000	50.231	-0.5	102	0.00
79 T	2-Chlorotoluene	50.000	49.268	1.5	102	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.418	-2.8	104	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.240	-4.5	106	0.00
82 T	4-Chlorotoluene	50.000	50.483	-1.0	103	0.00
83 T	tert-Butylbenzene	50.000	50.916	-1.8	103	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.428	-0.9	102	0.00
85 T	sec-Butylbenzene	50.000	50.429	-0.9	102	0.00
86 T	p-Isopropyltoluene	50.000	50.577	-1.2	103	0.00
87 T	1,3-Dichlorobenzene	50.000	49.558	0.9	103	0.00
88 T	1,4-Dichlorobenzene	50.000	47.821	4.4	103	0.00
89 T	n-Butylbenzene	50.000	50.753	-1.5	103	0.00
90 T	Hexachloroethane	50.000	49.965	0.1	103	0.00
91 T	1,2-Dichlorobenzene	50.000	48.553	2.9	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.171	-4.3	107	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.729	-1.5	104	0.00
94 T	Hexachlorobutadiene	50.000	52.667	-5.3	108	0.00
95 T	Naphthalene	50.000	54.014	-8.0	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046867.D
Acq On : 02 Jul 2025 15:14
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Quant Time: Jul 03 05:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.881	-1.8	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CAMP02
 Lab Code: ACE SDG No.: Q2458
 Instrument ID: MSVOA_Y Calibration Date(s): 06/23/2025 06/23/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 13:38 15:31
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY022776.D		RRF010 = VY022777.D		RRF020 = VY022778.D			
		RRF050 = VY022779.D		RRF100 = VY022780.D		RRF150 = VY022781.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.424	0.456	0.474	0.424	0.404	0.384	0.428	7.7	
Chloromethane	0.837	0.921	0.865	0.793	0.758	0.724	0.816	8.9	
Vinyl Chloride	0.934	1.099	1.091	1.045	0.993	0.958	1.020	6.8	
Bromomethane	0.784	0.885	0.854	0.771	0.760	0.756	0.802	6.8	
Chloroethane	0.649	0.736	0.722	0.694	0.673	0.640	0.686	5.6	
Trichlorofluoromethane	0.999	1.180	1.219	1.166	1.127	1.085	1.129	7	
1,1,2-Trichlorotrifluoroethane	0.508	0.560	0.547	0.515	0.492	0.474	0.516	6.3	
1,1-Dichloroethene	0.478	0.539	0.524	0.514	0.500	0.483	0.506	4.7	
Acetone	0.117	0.124	0.114	0.095	0.096	0.087	0.105	13.9	
Carbon Disulfide	1.516	1.705	1.731	1.667	1.625	1.566	1.635	5.1	
Methyl tert-butyl Ether	1.173	1.398	1.396	1.435	1.460	1.405	1.378	7.5	
Methyl Acetate	0.272	0.358	0.440	0.351	0.353	0.322	0.349	15.7	
Methylene Chloride	0.840	0.777	0.664	0.590	0.578	0.548	0.666	17.7	
trans-1,2-Dichloroethene	0.521	0.604	0.597	0.592	0.581	0.575	0.578	5.2	
1,1-Dichloroethane	0.949	1.075	1.079	1.077	1.055	1.030	1.044	4.8	
Cyclohexane	0.998	1.021	0.988	0.946	0.905	0.894	0.959	5.4	
2-Butanone	0.145	0.160	0.160	0.153	0.156	0.147	0.154	4.4	
Carbon Tetrachloride	0.439	0.498	0.507	0.491	0.492	0.491	0.486	5	
cis-1,2-Dichloroethene	0.606	0.689	0.687	0.685	0.687	0.678	0.672	4.8	
Bromochloromethane	0.437	0.431	0.437	0.459	0.443	0.427	0.439	2.6	
Chloroform	0.986	1.130	1.099	1.096	1.084	1.059	1.076	4.6	
1,1,1-Trichloroethane	0.847	0.945	0.973	0.950	0.939	0.923	0.929	4.7	
Methylcyclohexane	0.543	0.589	0.610	0.618	0.608	0.611	0.596	4.7	
Benzene	1.248	1.433	1.451	1.464	1.467	1.440	1.417	5.9	
1,2-Dichloroethane	0.335	0.397	0.402	0.400	0.404	0.392	0.388	6.8	
Trichloroethene	0.305	0.364	0.382	0.372	0.360	0.350	0.356	7.6	
1,2-Dichloropropane	0.289	0.339	0.345	0.339	0.341	0.337	0.332	6.4	
Bromodichloromethane	0.422	0.495	0.496	0.498	0.504	0.498	0.485	6.4	
4-Methyl-2-Pentanone	0.168	0.201	0.215	0.226	0.230	0.221	0.210	10.9	
Toluene	0.747	0.873	0.908	0.926	0.955	0.954	0.894	8.8	

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date(s):	<u>06/23/2025</u> <u>06/23/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Calibration Time(s):	<u>13:38</u> <u>15:31</u>
GC Column:	<u>RXI-624</u> ID: <u>0.25</u> (mm)		

LAB FILE ID:		RRF005 = VY022776.D		RRF010 = VY022777.D		RRF020 = VY022778.D		
		RRF050 = VY022779.D		RRF100 = VY022780.D		RRF150 = VY022781.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.355	0.430	0.438	0.451	0.473	0.473	0.437	10
cis-1,3-Dichloropropene	0.412	0.503	0.523	0.524	0.540	0.538	0.506	9.6
1,1,2-Trichloroethane	0.207	0.249	0.249	0.253	0.255	0.250	0.244	7.4
2-Hexanone	0.115	0.140	0.145	0.151	0.157	0.149	0.143	10.5
Dibromochloromethane	0.260	0.315	0.321	0.329	0.336	0.329	0.315	8.8
1,2-Dibromoethane	0.193	0.231	0.229	0.237	0.244	0.236	0.228	7.8
Tetrachloroethene	0.399	0.465	0.535	0.515	0.473	0.446	0.472	10.3
Chlorobenzene	0.981	1.110	1.131	1.126	1.130	1.114	1.099	5.3
Ethyl Benzene	1.644	1.881	1.971	2.029	2.040	2.018	1.930	7.9
m/p-Xylenes	0.624	0.722	0.759	0.782	0.800	0.791	0.746	8.8
o-Xylene	0.578	0.674	0.708	0.734	0.759	0.765	0.703	10
Styrene	0.926	1.108	1.165	1.249	1.309	1.309	1.178	12.5
Bromoform	0.178	0.204	0.203	0.212	0.225	0.220	0.207	8
Isopropylbenzene	3.354	3.764	3.823	3.778	3.709	3.759	3.698	4.7
1,1,2,2-Tetrachloroethane	0.597	0.659	0.566	0.567	0.594	0.593	0.596	5.6
1,3-Dichlorobenzene	1.546	1.660	1.692	1.708	1.750	1.744	1.683	4.5
1,4-Dichlorobenzene	1.564	1.740	1.688	1.685	1.690	1.666	1.672	3.5
1,2-Dichlorobenzene	1.395	1.488	1.502	1.499	1.515	1.502	1.483	3
1,2-Dibromo-3-Chloropropane	0.102	0.101	0.103	0.103	0.102	0.096	0.101	2.7
1,2,4-Trichlorobenzene	0.778	0.841	0.848	0.843	0.871	0.845	0.838	3.7
1,2,3-Trichlorobenzene	0.679	0.723	0.735	0.728	0.751	0.727	0.724	3.3
1,2-Dichloroethane-d4	0.568	0.550	0.557	0.559	0.571	0.545	0.558	1.8
Dibromofluoromethane	0.306	0.297	0.295	0.304	0.314	0.308	0.304	2.3
Toluene-d8	1.182	1.148	1.186	1.215	1.262	1.247	1.207	3.6
4-Bromofluorobenzene	0.368	0.362	0.370	0.385	0.423	0.421	0.388	7

* 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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y062325S.M
 Title : SW846 8260
 Last Update : Tue Jun 24 08:29:52 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY022776.D 10 =VY022777.D 20 =VY022778.D 50 =VY022779.D 100 =VY022780.D 150 =VY022781.D

	Compound	5	10	20	50	100	150	Avg	%RSD

1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.424	0.456	0.474	0.424	0.404	0.384	0.428	7.74
3) P	Chloromethane	0.837	0.921	0.865	0.793	0.758	0.724	0.816	8.89
4) C	Vinyl Chloride	0.934	1.099	1.091	1.045	0.993	0.958	1.020	6.78#
5) T	Bromomethane	0.784	0.885	0.854	0.771	0.760	0.756	0.802	6.77
6) T	Chloroethane	0.649	0.736	0.722	0.694	0.673	0.640	0.686	5.64
7) T	Trichlorofluor...	0.999	1.180	1.219	1.166	1.127	1.085	1.129	6.96
8) T	Diethyl Ether	0.260	0.289	0.287	0.285	0.281	0.271	0.279	3.93
9) T	1,1,2-Trichlor...	0.508	0.560	0.547	0.515	0.492	0.474	0.516	6.35
10) T	Methyl Iodide	0.451	0.542	0.567	0.626	0.611	0.575	0.562	11.12
11) T	Tert butyl alc...	0.034	0.037	0.038	0.038	0.039	0.036	0.037	4.97
12) CM	1,1-Dichloroet...	0.478	0.539	0.524	0.514	0.500	0.483	0.506	4.68#
13) T	Acrolein	0.052	0.051	0.053	0.049	0.049	0.047	0.050	4.22
14) T	Allyl chloride	0.687	0.803	0.805	0.797	0.790	0.789	0.778	5.80
15) T	Acrylonitrile	0.105	0.116	0.120	0.121	0.122	0.116	0.116	5.45
16) T	Acetone	0.117	0.124	0.114	0.095	0.096	0.087	0.105	13.91
17) T	Carbon Disulfide	1.516	1.705	1.731	1.667	1.625	1.566	1.635	5.06
18) T	Methyl Acetate	0.272	0.358	0.440	0.351	0.353	0.322	0.349	15.66
19) T	Methyl tert-bu...	1.173	1.398	1.396	1.435	1.460	1.405	1.378	7.50
20) T	Methylene Chlo...	0.840	0.777	0.664	0.590	0.578	0.548	0.666	17.74
21) T	trans-1,2-Dich...	0.521	0.604	0.597	0.592	0.581	0.575	0.578	5.19
22) T	Diisopropyl ether	1.460	1.762	1.779	1.789	1.804	1.778	1.729	7.65
23) T	Vinyl Acetate	0.830	0.942	0.920	1.010	1.024	1.003	0.955	7.72
24) P	1,1-Dichloroet...	0.949	1.075	1.079	1.077	1.055	1.030	1.044	4.83
25) T	2-Butanone	0.145	0.160	0.160	0.153	0.156	0.147	0.154	4.37
26) T	2,2-Dichloropr...	0.801	0.930	0.927	0.884	0.863	0.847	0.875	5.65
27) T	cis-1,2-Dichlo...	0.606	0.689	0.687	0.685	0.687	0.678	0.672	4.84
28) T	Bromochloromet...	0.437	0.431	0.437	0.459	0.443	0.427	0.439	2.59
29) T	Tetrahydrofuran	0.087	0.095	0.098	0.102	0.103	0.097	0.097	6.02
30) C	Chloroform	0.986	1.130	1.099	1.096	1.084	1.059	1.076	4.60#
31) T	Cyclohexane	0.998	1.021	0.988	0.946	0.905	0.894	0.959	5.41
32) T	1,1,1-Trichlor...	0.847	0.945	0.973	0.950	0.939	0.923	0.929	4.68
33) S	1,2-Dichloroet...	0.568	0.550	0.557	0.559	0.571	0.545	0.558	1.77
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.306	0.297	0.295	0.304	0.314	0.308	0.304	2.31
36) T	1,1-Dichloropr...	0.420	0.473	0.472	0.469	0.468	0.465	0.461	4.42
37) T	Ethyl Acetate	0.181	0.198	0.198	0.206	0.210	0.200	0.199	5.09
38) T	Carbon Tetrach...	0.439	0.498	0.507	0.491	0.492	0.491	0.486	4.98
39) T	Methylcyclohexane	0.543	0.589	0.610	0.618	0.608	0.611	0.596	4.65
40) TM	Benzene	1.248	1.433	1.451	1.464	1.467	1.440	1.417	5.92
41) T	Methacrylonitrile	0.118	0.137	0.129	0.120	0.108	0.123	0.122	8.16
42) TM	1,2-Dichloroet...	0.335	0.397	0.402	0.400	0.404	0.392	0.388	6.79
43) T	Isopropyl Acetate	0.348	0.408	0.424	0.436	0.442	0.424	0.413	8.29
44) TM	Trichloroethene	0.305	0.364	0.382	0.372	0.360	0.350	0.356	7.60
45) C	1,2-Dichloropr...	0.289	0.339	0.345	0.339	0.341	0.337	0.332	6.35#
46) T	Dibromomethane	0.169	0.193	0.192	0.191	0.194	0.190	0.188	4.94
47) T	Bromodichlorom...	0.422	0.495	0.496	0.498	0.504	0.498	0.485	6.40
48) T	Methyl methacr...	0.151	0.193	0.208	0.214	0.219	0.207	0.199	12.57
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	8.51
50) S	Toluene-d8	1.182	1.148	1.186	1.215	1.262	1.247	1.207	3.57
51) T	4-Methyl-2-Pen...	0.168	0.201	0.215	0.226	0.230	0.221	0.210	10.86
52) CM	Toluene	0.747	0.873	0.908	0.926	0.955	0.954	0.894	8.76#
53) T	t-1,3-Dichloro...	0.355	0.430	0.438	0.451	0.473	0.473	0.437	10.03
54) T	cis-1,3-Dichlo...	0.412	0.503	0.523	0.524	0.540	0.538	0.506	9.55
55) T	1,1,2-Trichlor...	0.207	0.249	0.249	0.253	0.255	0.250	0.244	7.40
56) T	Ethyl methacry...	0.258	0.296	0.315	0.354	0.372	0.374	0.328	14.17

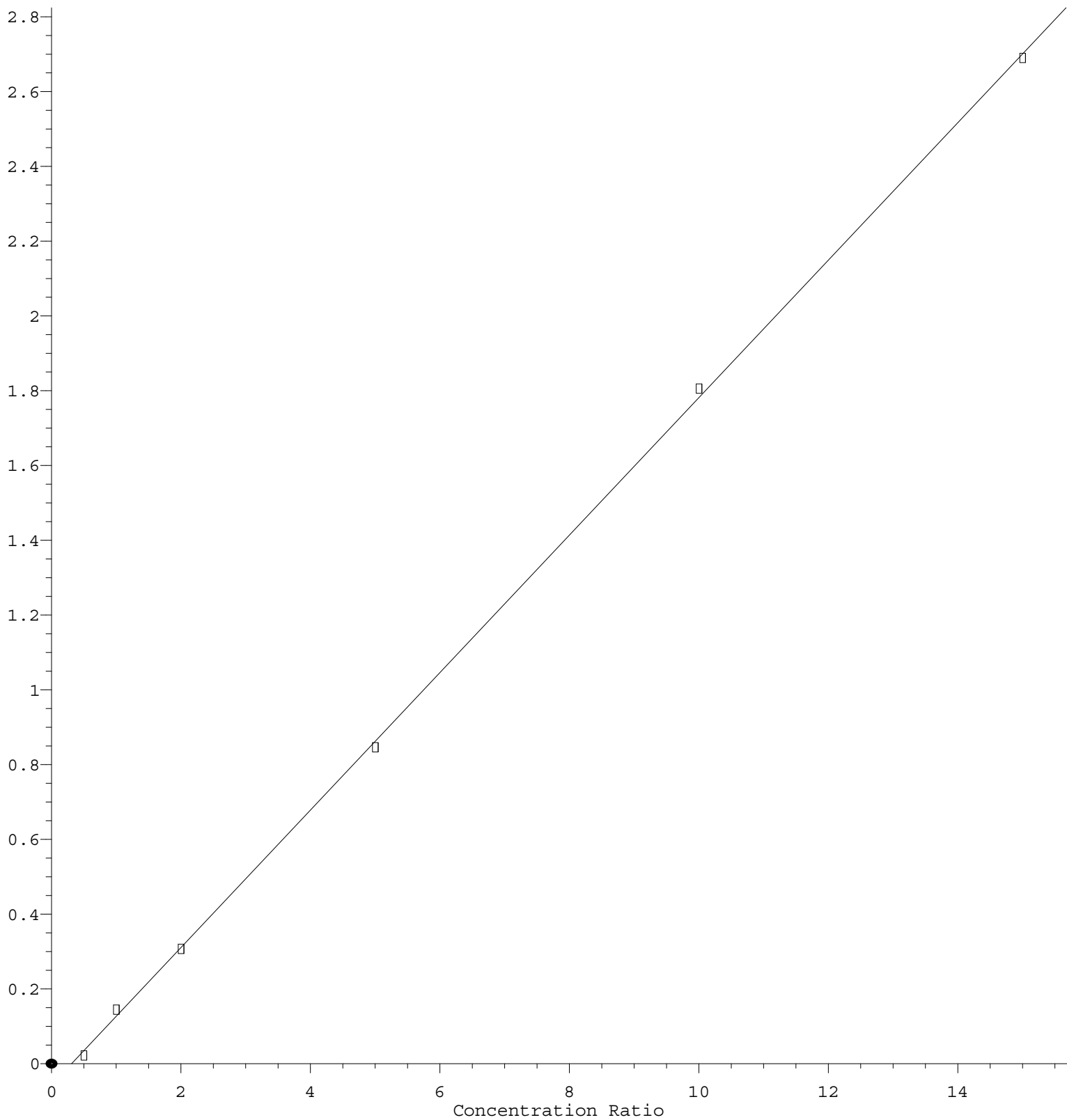
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y062325S.M

57)	T	1,3-Dichloropr...	0.371	0.428	0.439	0.438	0.442	0.433	0.425	6.39
58)	T	2-Chloroethyl ...	0.044	0.145	0.154	0.169	0.181	0.179	0.145	35.44
59)	T	2-Hexanone	0.115	0.140	0.145	0.151	0.157	0.149	0.143	10.48
60)	T	Dibromochlorom...	0.260	0.315	0.321	0.329	0.336	0.329	0.315	8.82
61)	T	1,2-Dibromoethane	0.193	0.231	0.229	0.237	0.244	0.236	0.228	7.81
62)	S	4-Bromofluorob...	0.368	0.362	0.370	0.385	0.423	0.421	0.388	7.02
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.399	0.465	0.535	0.515	0.473	0.446	0.472	10.30
65)	PM	Chlorobenzene	0.981	1.110	1.131	1.126	1.130	1.114	1.099	5.30
66)	T	1,1,1,2-Tetrac...	0.315	0.377	0.377	0.385	0.393	0.386	0.372	7.76
67)	C	Ethyl Benzene	1.644	1.881	1.971	2.029	2.040	2.018	1.930	7.88#
68)	T	m/p-Xylenes	0.624	0.722	0.759	0.782	0.800	0.791	0.746	8.85
69)	T	o-Xylene	0.578	0.674	0.708	0.734	0.759	0.765	0.703	9.99
70)	T	Styrene	0.926	1.108	1.165	1.249	1.309	1.309	1.178	12.49
71)	P	Bromoform	0.178	0.204	0.203	0.212	0.225	0.220	0.207	8.02
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.354	3.764	3.823	3.778	3.709	3.759	3.698	4.67
74)	T	N-amyl acetate	0.680	0.794	0.814	0.897	0.896	0.900	0.830	10.47
75)	P	1,1,2,2-Tetrac...	0.597	0.659	0.566	0.567	0.594	0.593	0.596	5.65
76)	T	1,2,3-Trichlor...	0.559	0.516	0.514	0.510	0.489	0.474	0.510	5.67
77)	T	Bromobenzene	0.762	0.859	0.854	0.852	0.847	0.855	0.838	4.46
78)	T	n-propylbenzene	4.147	4.548	4.635	4.562	4.453	4.444	4.465	3.84
79)	T	2-Chlorotoluene	2.325	2.536	2.601	2.576	2.556	2.541	2.522	3.95
80)	T	1,3,5-Trimethy...	2.664	2.991	3.077	3.062	3.068	3.049	2.985	5.37
81)	T	trans-1,4-Dich...	0.179	0.208	0.210	0.199	0.212	0.205	0.202	5.96
82)	T	4-Chlorotoluene	2.411	2.686	2.688	2.697	2.718	2.698	2.650	4.43
83)	T	tert-Butylbenzene	2.410	2.643	2.647	2.720	2.670	2.706	2.633	4.31
84)	T	1,2,4-Trimethy...	2.551	3.002	3.081	3.098	3.101	3.099	2.989	7.28
85)	T	sec-Butylbenzene	3.629	3.998	4.083	4.097	4.016	3.943	3.961	4.35
86)	T	p-Isopropyltol...	2.887	3.282	3.338	3.414	3.442	3.415	3.296	6.34
87)	T	1,3-Dichlorobe...	1.546	1.660	1.692	1.708	1.750	1.744	1.683	4.47
88)	T	1,4-Dichlorobe...	1.564	1.740	1.688	1.685	1.690	1.666	1.672	3.50
89)	T	n-Butylbenzene	2.814	3.124	3.194	3.204	3.160	3.107	3.101	4.69
90)	T	Hexachloroethane	0.618	0.664	0.670	0.673	0.654	0.659	0.657	3.04
91)	T	1,2-Dichlorobe...	1.395	1.488	1.502	1.499	1.515	1.502	1.483	3.00
92)	T	1,2-Dibromo-3-...	0.102	0.101	0.103	0.103	0.102	0.096	0.101	2.72
93)	T	1,2,4-Trichlor...	0.778	0.841	0.848	0.843	0.871	0.845	0.838	3.74
94)	T	Hexachlorobuta...	0.516	0.499	0.489	0.464	0.449	0.424	0.474	7.22
95)	T	Naphthalene	1.240	1.383	1.516	1.599	1.696	1.655	1.515	11.53
96)	T	1,2,3-Trichlor...	0.679	0.723	0.735	0.728	0.751	0.727	0.724	3.31

(#) = Out of Range

2-Chloroethyl Vinyl ether

Response Ratio



$$\text{Response} = 1.839\text{e-}001 * \text{Amt} - 5.758\text{e-}002$$

Coef of Det (r^2) = 0.999746 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y062325S.M

Calibration Table Last Updated: Tue Jun 24 08:29:52 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022776.D
 Acq On : 23 Jun 2025 13:38
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:49:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	475810	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	805517	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	670807	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	304230	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	27016	5.087	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	10.180%#		
35) Dibromofluoromethane	7.634	113	24664	5.035	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	10.060%#		
50) Toluene-d8	10.103	98	95214	4.898	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	9.800%#		
62) 4-Bromofluorobenzene	12.402	95	29609	4.738	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	9.480%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	20158	4.954	ug/l	98
3) Chloromethane	2.068	50	39810	5.124	ug/l	97
4) Vinyl Chloride	2.202	62	44450	4.579	ug/l	98
5) Bromomethane	2.598	94	37327	4.892	ug/l	95
6) Chloroethane	2.732	64	30869	4.731	ug/l	99
7) Trichlorofluoromethane	3.056	101	47536	4.423	ug/l	99
8) Diethyl Ether	3.458	74	12389	4.667	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	24158	4.919	ug/l	98
10) Methyl Iodide	4.001	142	21456	4.012	ug/l	99
11) Tert butyl alcohol	4.866	59	8018	22.707	ug/l	96
12) 1,1-Dichloroethene	3.787	96	22737	4.721	ug/l	98
13) Acrolein	3.653	56	12383	25.861	ug/l	94
14) Allyl chloride	4.379	41	32705	4.415	ug/l	99
15) Acrylonitrile	5.061	53	24866	22.452	ug/l	99
16) Acetone	3.873	43	27862	27.758	ug/l	97
17) Carbon Disulfide	4.104	76	72112	4.635	ug/l	100
18) Methyl Acetate	4.385	43	12955	3.897	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	55836	4.258	ug/l	100
20) Methylene Chloride	4.616	84	39953	6.303	ug/l	92
21) trans-1,2-Dichloroethene	5.110	96	24796	4.505	ug/l	84
22) Diisopropyl ether	6.012	45	69481	4.223	ug/l #	86
23) Vinyl Acetate	5.958	43	197369	21.723	ug/l	99
24) 1,1-Dichloroethane	5.909	63	45142	4.543	ug/l	99
25) 2-Butanone	6.902	43	34396	23.545	ug/l	93
26) 2,2-Dichloropropane	6.884	77	38104	4.574	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	28846	4.510	ug/l	96
28) Bromochloromethane	7.244	49	20781	4.974	ug/l	99
29) Tetrahydrofuran	7.262	42	20593	22.324	ug/l	96
30) Chloroform	7.421	83	46913	4.584	ug/l	97
31) Cyclohexane	7.701	56	47489	5.206	ug/l #	78
32) 1,1,1-Trichloroethane	7.616	97	40296	4.556	ug/l	99
36) 1,1-Dichloropropene	7.829	75	33812	4.554	ug/l	100
37) Ethyl Acetate	6.988	43	14555	4.543	ug/l	98
38) Carbon Tetrachloride	7.823	117	35332	4.510	ug/l	99
39) Methylcyclohexane	9.109	83	43762	4.554	ug/l	96
40) Benzene	8.079	78	100522	4.403	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022776.D
 Acq On : 23 Jun 2025 13:38
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025

Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:49:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Quant Title : SW846 8260

QLast Update : Tue Jun 24 02:48:20 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	9489m	4.694	ug/l	
42) 1,2-Dichloroethane	8.152	62	27003	4.316	ug/l	97
43) Isopropyl Acetate	8.201	43	28001	4.205	ug/l	99
44) Trichloroethene	8.866	130	24585	4.289	ug/l	95
45) 1,2-Dichloropropane	9.140	63	23279	4.357	ug/l	95
46) Dibromomethane	9.231	93	13652	4.501	ug/l	96
47) Bromodichloromethane	9.420	83	34024	4.350	ug/l	97
48) Methyl methacrylate	9.219	41	12155	3.797	ug/l	98
49) 1,4-Dioxane	9.231	88	3000	83.716	ug/l #	88
51) 4-Methyl-2-Pentanone	9.999	43	67853	20.050	ug/l	96
52) Toluene	10.170	92	60162	4.177	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	28590	4.063	ug/l	94
54) cis-1,3-Dichloropropene	9.853	75	33149	4.063	ug/l	97
55) 1,1,2-Trichloroethane	10.566	97	16701	4.252	ug/l	93
56) Ethyl methacrylate	10.438	69	20761	3.929	ug/l	96
57) 1,3-Dichloropropane	10.713	76	29874	4.360	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.707	63	17827	21.672	ug/l	98
59) 2-Hexanone	10.755	43	46132	20.050	ug/l	96
60) Dibromochloromethane	10.908	129	20962	4.132	ug/l	99
61) 1,2-Dibromoethane	11.012	107	15579	4.239	ug/l	99
64) Tetrachloroethene	10.640	164	26784	4.227	ug/l	97
65) Chlorobenzene	11.438	112	65810	4.465	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.511	131	21097	4.226	ug/l	99
67) Ethyl Benzene	11.518	91	110258	4.257	ug/l	98
68) m/p-Xylenes	11.621	106	83728	8.364	ug/l	98
69) o-Xylene	11.950	106	38740	4.107	ug/l	98
70) Styrene	11.963	104	62104	3.930	ug/l	99
71) Bromoform	12.127	173	11959	4.302	ug/l #	99
73) Isopropylbenzene	12.249	105	102024	4.534	ug/l	99
74) N-amyl acetate	12.066	43	20685	4.096	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.499	83	18149	5.005	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	17021m	5.313	ug/l	
77) Bromobenzene	12.530	156	23191	4.547	ug/l	98
78) n-propylbenzene	12.590	91	126153	4.644	ug/l	97
79) 2-Chlorotoluene	12.676	91	70735	4.609	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	81045	4.462	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.298	75	5453	4.436	ug/l	93
82) 4-Chlorotoluene	12.773	91	73344	4.549	ug/l	99
83) tert-Butylbenzene	12.993	119	73316	4.577	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	77619	4.268	ug/l	98
85) sec-Butylbenzene	13.170	105	110395	4.580	ug/l	99
86) p-Isopropyltoluene	13.285	119	87840	4.380	ug/l	99
87) 1,3-Dichlorobenzene	13.279	146	47028	4.591	ug/l	100
88) 1,4-Dichlorobenzene	13.359	146	47574	4.676	ug/l	92
89) n-Butylbenzene	13.615	91	85615	4.538	ug/l	99
90) Hexachloroethane	13.871	117	18815	4.710	ug/l	100
91) 1,2-Dichlorobenzene	13.651	146	42426	4.700	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.267	75	3105	5.049	ug/l	90
93) 1,2,4-Trichlorobenzene	14.913	180	23654	4.641	ug/l	99
94) Hexachlorobutadiene	15.017	225	15690	5.444	ug/l	98
95) Naphthalene	15.139	128	37712	4.092	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	20664	4.692	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022776.D
Acq On : 23 Jun 2025 13:38
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:49:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 02:48:20 2025
Response via : Initial Calibration

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

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

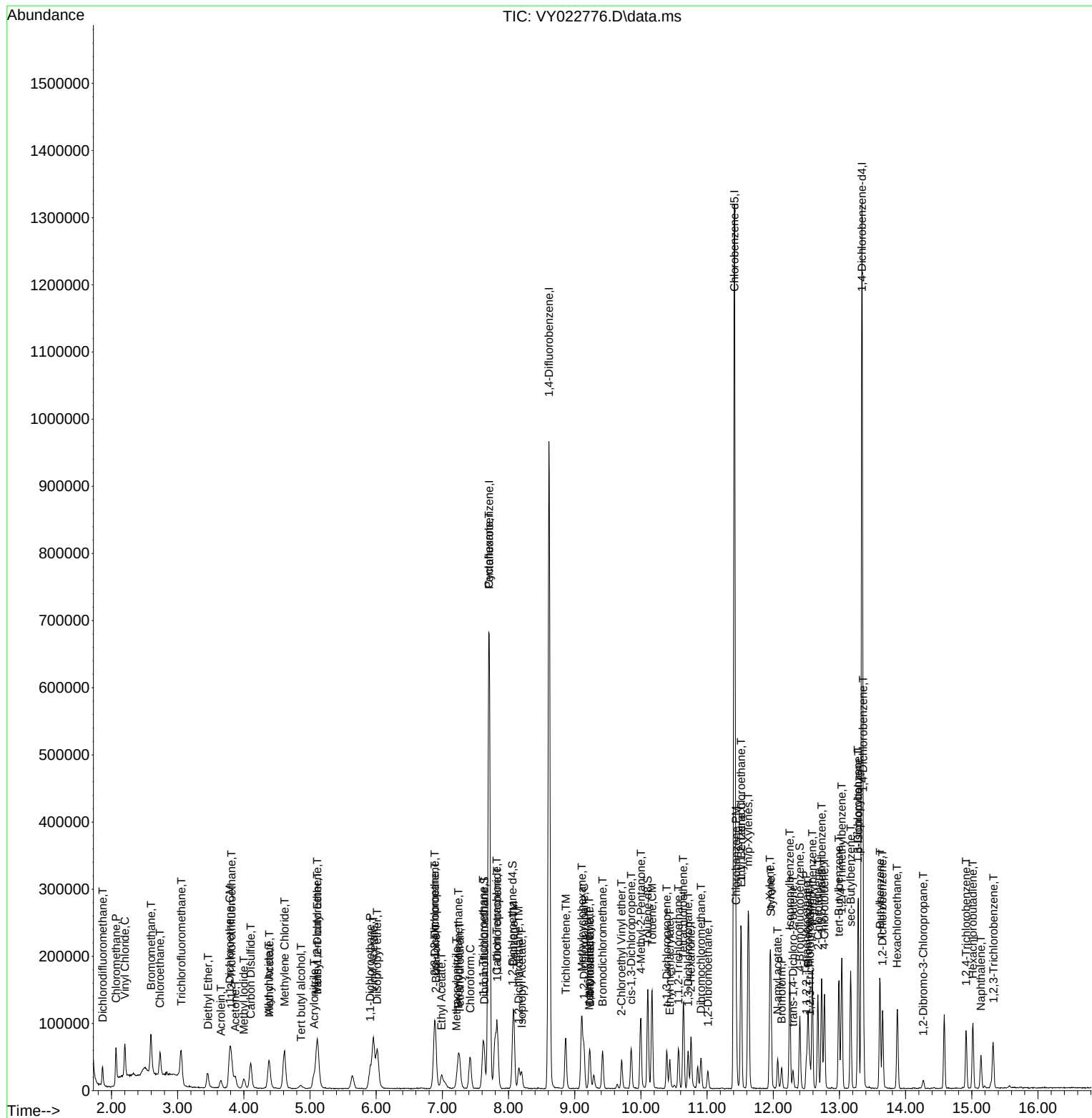
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022776.D
Acq On : 23 Jun 2025 13:38
Operator : SY/MD
Sample : VSTDIC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:49:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 02:48:20 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022777.D
 Acq On : 23 Jun 2025 14:00
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:50:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	463035	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	781463	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	664424	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	310897	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	50892	9.848	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	19.700%#
35) Dibromofluoromethane	7.628	113	46399	9.763	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	19.520%#
50) Toluene-d8	10.103	98	179425	9.514	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	19.020%#
62) 4-Bromofluorobenzene	12.401	95	56575	9.332	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	18.660%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	42214	10.662	ug/l	94
3) Chloromethane	2.068	50	85337	11.287	ug/l	95
4) Vinyl Chloride	2.202	62	101774	10.775	ug/l	99
5) Bromomethane	2.592	94	81985	11.040	ug/l	98
6) Chloroethane	2.732	64	68123	10.729	ug/l	97
7) Trichlorofluoromethane	3.049	101	109310	10.451	ug/l	99
8) Diethyl Ether	3.452	74	26729	10.347	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	51901	10.858	ug/l	98
10) Methyl Iodide	3.994	142	50149	9.637	ug/l	99
11) Tert butyl alcohol	4.860	59	17351	50.493	ug/l #	92
12) 1,1-Dichloroethene	3.787	96	49870	10.641	ug/l	94
13) Acrolein	3.653	56	23603	50.654	ug/l	96
14) Allyl chloride	4.385	41	74349	10.314	ug/l	100
15) Acrylonitrile	5.055	53	53484	49.623	ug/l	97
16) Acetone	3.866	43	57265	58.626	ug/l	97
17) Carbon Disulfide	4.104	76	157862	10.426	ug/l	96
18) Methyl Acetate	4.385	43	33123	10.240	ug/l	98
19) Methyl tert-butyl Ether	5.110	73	129453	10.144	ug/l	97
20) Methylene Chloride	4.610	84	71926	11.660	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	55933	10.442	ug/l	93
22) Diisopropyl ether	6.012	45	163202	10.194	ug/l #	90
23) Vinyl Acetate	5.957	43	436202	49.334	ug/l	99
24) 1,1-Dichloroethane	5.909	63	99575	10.297	ug/l	99
25) 2-Butanone	6.896	43	74304	52.267	ug/l	98
26) 2,2-Dichloropropane	6.884	77	86121	10.624	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	63822	10.254	ug/l	98
28) Bromochloromethane	7.244	49	39901	9.815	ug/l	99
29) Tetrahydrofuran	7.256	42	44155	49.188	ug/l	99
30) Chloroform	7.415	83	104609	10.503	ug/l	100
31) Cyclohexane	7.695	56	94507	10.647	ug/l #	96
32) 1,1,1-Trichloroethane	7.616	97	87498	10.166	ug/l	98
36) 1,1-Dichloropropene	7.835	75	73869	10.254	ug/l	99
37) Ethyl Acetate	6.982	43	30940	9.953	ug/l	99
38) Carbon Tetrachloride	7.817	117	77817	10.238	ug/l	96
39) Methylcyclohexane	9.103	83	92069	9.876	ug/l	96
40) Benzene	8.073	78	223979	10.113	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022777.D
 Acq On : 23 Jun 2025 14:00
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:50:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.244	41	21459m	10.943	ug/l	
42) 1,2-Dichloroethane	8.152	62	62006	10.217	ug/l	98
43) Isopropyl Acetate	8.195	43	63693	9.859	ug/l	97
44) Trichloroethene	8.866	130	56947	10.241	ug/l	98
45) 1,2-Dichloropropane	9.140	63	53045	10.233	ug/l	94
46) Dibromomethane	9.225	93	30124	10.237	ug/l	96
47) Bromodichloromethane	9.420	83	77307	10.188	ug/l	99
48) Methyl methacrylate	9.219	41	30168	9.713	ug/l	99
49) 1,4-Dioxane	9.225	88	6781	195.052	ug/l	93
51) 4-Methyl-2-Pentanone	9.993	43	156769	47.750	ug/l	99
52) Toluene	10.164	92	136520	9.771	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	67233	9.848	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	78622	9.932	ug/l	98
55) 1,1,2-Trichloroethane	10.566	97	38897	10.208	ug/l	97
56) Ethyl methacrylate	10.438	69	46228	9.018	ug/l	98
57) 1,3-Dichloropropane	10.713	76	66930	10.068	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.707	63	113045	54.985	ug/l	100
59) 2-Hexanone	10.755	43	109594	49.099	ug/l	98
60) Dibromochloromethane	10.908	129	49185	9.994	ug/l	99
61) 1,2-Dibromoethane	11.011	107	36029	10.105	ug/l	98
64) Tetrachloroethene	10.646	164	61796	9.845	ug/l	95
65) Chlorobenzene	11.438	112	147476	10.101	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	50032	10.118	ug/l	100
67) Ethyl Benzene	11.511	91	249925	9.743	ug/l	98
68) m/p-Xylenes	11.627	106	191878	19.351	ug/l	99
69) o-Xylene	11.950	106	89531	9.582	ug/l	100
70) Styrene	11.963	104	147196	9.405	ug/l	99
71) Bromoform	12.127	173	27105	9.844	ug/l #	98
73) Isopropylbenzene	12.249	105	234034	10.179	ug/l	99
74) N-amyl acetate	12.066	43	49341	9.560	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	40964	11.054	ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	32074m	9.797	ug/l	
77) Bromobenzene	12.523	156	53437	10.253	ug/l	98
78) n-propylbenzene	12.590	91	282781	10.186	ug/l	99
79) 2-Chlorotoluene	12.676	91	157704	10.055	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	186006	10.021	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	12937	10.297	ug/l	95
82) 4-Chlorotoluene	12.773	91	166997	10.137	ug/l	98
83) tert-Butylbenzene	12.993	119	164329	10.039	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	186662	10.045	ug/l	99
85) sec-Butylbenzene	13.170	105	248568	10.092	ug/l	99
86) p-Isopropyltoluene	13.285	119	204047	9.955	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	103200	9.860	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	108198	10.406	ug/l	98
89) n-Butylbenzene	13.609	91	194233	10.075	ug/l	98
90) Hexachloroethane	13.877	117	41277	10.111	ug/l	99
91) 1,2-Dichlorobenzene	13.651	146	92518	10.030	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6258	9.958	ug/l	97
93) 1,2,4-Trichlorobenzene	14.913	180	52305	10.043	ug/l	99
94) Hexachlorobutadiene	15.017	225	31049	10.543	ug/l	100
95) Naphthalene	15.139	128	85996	9.131	ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	44944	9.987	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022777.D
Acq On : 23 Jun 2025 14:00
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:50:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 02:48:20 2025
Response via : Initial Calibration

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

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

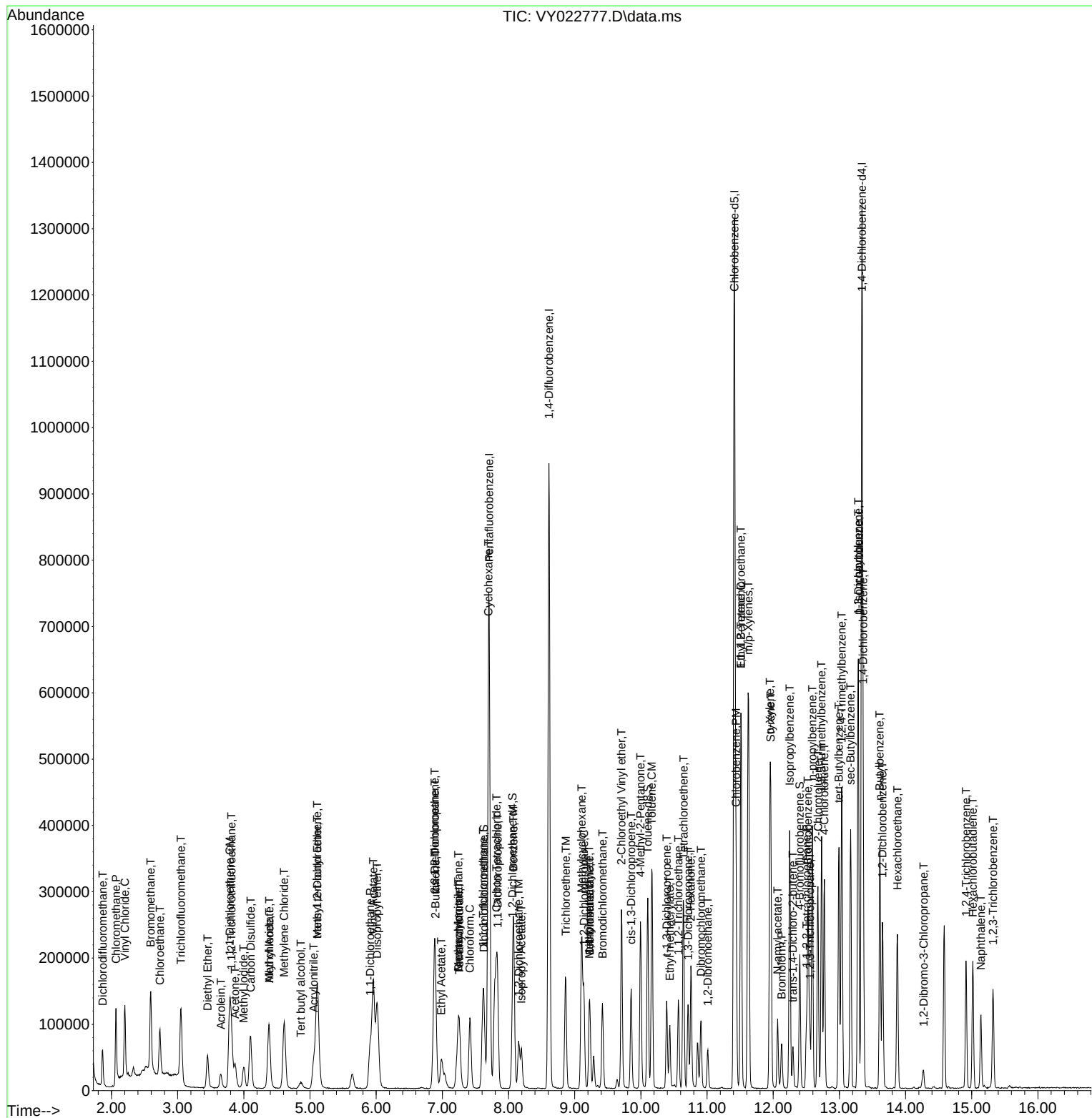
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022777.D
Acq On : 23 Jun 2025 14:00
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:50:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 02:48:20 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022778.D
 Acq On : 23 Jun 2025 14:23
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:51:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	466622	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	781920	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	668589	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	321641	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.055	65	103895	19.949	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	39.900%#
35) Dibromofluoromethane	7.628	113	92378	19.426	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	38.860%#
50) Toluene-d8	10.103	98	370864	19.654	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	39.300%#
62) 4-Bromofluorobenzene	12.402	95	115617	19.060	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	38.120%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	88527	22.187	ug/l	96
3) Chloromethane	2.062	50	161461	21.191	ug/l	97
4) Vinyl Chloride	2.196	62	203692	21.399	ug/l	98
5) Bromomethane	2.580	94	159406	21.301	ug/l	100
6) Chloroethane	2.727	64	134813	21.069	ug/l	95
7) Trichlorofluoromethane	3.044	101	227500	21.584	ug/l	97
8) Diethyl Ether	3.452	74	53531	20.563	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.806	101	102158	21.209	ug/l	99
10) Methyl Iodide	3.995	142	105737	20.162	ug/l	99
11) Tert butyl alcohol	4.854	59	35575	102.731	ug/l	99
12) 1,1-Dichloroethene	3.781	96	97726	20.691	ug/l	93
13) Acrolein	3.647	56	49556	105.534	ug/l	97
14) Allyl chloride	4.373	41	150283	20.687	ug/l	100
15) Acrylonitrile	5.049	53	112031	103.145	ug/l	99
16) Acetone	3.867	43	106379	108.071	ug/l	94
17) Carbon Disulfide	4.092	76	323087	21.175	ug/l	98
18) Methyl Acetate	4.379	43	82088	25.182	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	260531	20.258	ug/l	99
20) Methylene Chloride	4.610	84	123947	19.939	ug/l	98
21) trans-1,2-Dichloroethene	5.104	96	111517	20.659	ug/l	94
22) Diisopropyl ether	6.013	45	331999	20.578	ug/l	96
23) Vinyl Acetate	5.952	43	858731	96.375	ug/l	99
24) 1,1-Dichloroethane	5.909	63	201445	20.671	ug/l	99
25) 2-Butanone	6.890	43	149196	104.140	ug/l	100
26) 2,2-Dichloropropane	6.878	77	173008	21.179	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	128206	20.439	ug/l	99
28) Bromochloromethane	7.238	49	81625	19.923	ug/l	99
29) Tetrahydrofuran	7.256	42	91536	101.186	ug/l	98
30) Chloroform	7.415	83	205035	20.428	ug/l	95
31) Cyclohexane	7.695	56	184362	20.610	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	181573	20.934	ug/l	99
36) 1,1-Dichloropropene	7.829	75	147625	20.481	ug/l	99
37) Ethyl Acetate	6.982	43	62062	19.954	ug/l	98
38) Carbon Tetrachloride	7.811	117	158707	20.868	ug/l	97
39) Methylcyclohexane	9.103	83	190778	20.453	ug/l	95
40) Benzene	8.079	78	453686	20.472	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022778.D
 Acq On : 23 Jun 2025 14:23
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025

Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:51:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Quant Title : SW846 8260

QLast Update : Tue Jun 24 02:48:20 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.214	41	40422m	20.600	ug/l	
42) 1,2-Dichloroethane	8.152	62	125873	20.728	ug/l	100
43) Isopropyl Acetate	8.195	43	132526	20.501	ug/l	99
44) Trichloroethene	8.860	130	119612	21.498	ug/l	97
45) 1,2-Dichloropropane	9.134	63	107803	20.785	ug/l	100
46) Dibromomethane	9.225	93	60151	20.430	ug/l	100
47) Bromodichloromethane	9.420	83	155066	20.424	ug/l	99
48) Methyl methacrylate	9.219	41	65108	20.951	ug/l	99
49) 1,4-Dioxane	9.219	88	14738	423.683	ug/l	97
51) 4-Methyl-2-Pentanone	9.993	43	335542	102.143	ug/l	99
52) Toluene	10.164	92	284109	20.321	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	137096	20.069	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	163425	20.633	ug/l	98
55) 1,1,2-Trichloroethane	10.567	97	77767	20.398	ug/l	96
56) Ethyl methacrylate	10.439	69	98608	19.224	ug/l	98
57) 1,3-Dichloropropane	10.713	76	137448	20.664	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	240143	99.154	ug/l	99
59) 2-Hexanone	10.756	43	226399	101.369	ug/l	100
60) Dibromochloromethane	10.908	129	100360	20.380	ug/l	99
61) 1,2-Dibromoethane	11.012	107	71565	20.059	ug/l	99
64) Tetrachloroethene	10.640	164	143038	22.646	ug/l	97
65) Chlorobenzene	11.438	112	302372	20.582	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.512	131	100839	20.265	ug/l	99
67) Ethyl Benzene	11.512	91	527080	20.420	ug/l	97
68) m/p-Xylenes	11.621	106	405724	40.662	ug/l	99
69) o-Xylene	11.950	106	189409	20.146	ug/l	100
70) Styrene	11.963	104	311610	19.787	ug/l	99
71) Bromoform	12.127	173	54365	19.622	ug/l #	99
73) Isopropylbenzene	12.249	105	491885	20.678	ug/l	99
74) N-amyl acetate	12.066	43	104745	19.617	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.499	83	72880	19.010	ug/l	100
76) 1,2,3-Trichloropropane	12.548	75	66146m	19.529	ug/l	
77) Bromobenzene	12.530	156	109855	20.375	ug/l	98
78) n-propylbenzene	12.591	91	596356	20.765	ug/l	100
79) 2-Chlorotoluene	12.676	91	334595	20.620	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	395821	20.613	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	26956	20.739	ug/l	97
82) 4-Chlorotoluene	12.774	91	345875	20.293	ug/l	99
83) tert-Butylbenzene	12.993	119	340561	20.110	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	396401	20.618	ug/l	100
85) sec-Butylbenzene	13.170	105	525353	20.618	ug/l	100
86) p-Isopropyltoluene	13.286	119	429419	20.252	ug/l	99
87) 1,3-Dichlorobenzene	13.280	146	217684	20.103	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	217184	20.191	ug/l	98
89) n-Butylbenzene	13.609	91	410986	20.605	ug/l	99
90) Hexachloroethane	13.871	117	86261	20.425	ug/l	95
91) 1,2-Dichlorobenzene	13.651	146	193285	20.255	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	13274	20.417	ug/l	99
93) 1,2,4-Trichlorobenzene	14.913	180	109060	20.242	ug/l	99
94) Hexachlorobutadiene	15.017	225	62946	20.660	ug/l	97
95) Naphthalene	15.139	128	195013	20.015	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	94536	20.305	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022778.D
Acq On : 23 Jun 2025 14:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:51:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 02:48:20 2025
Response via : Initial Calibration

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

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

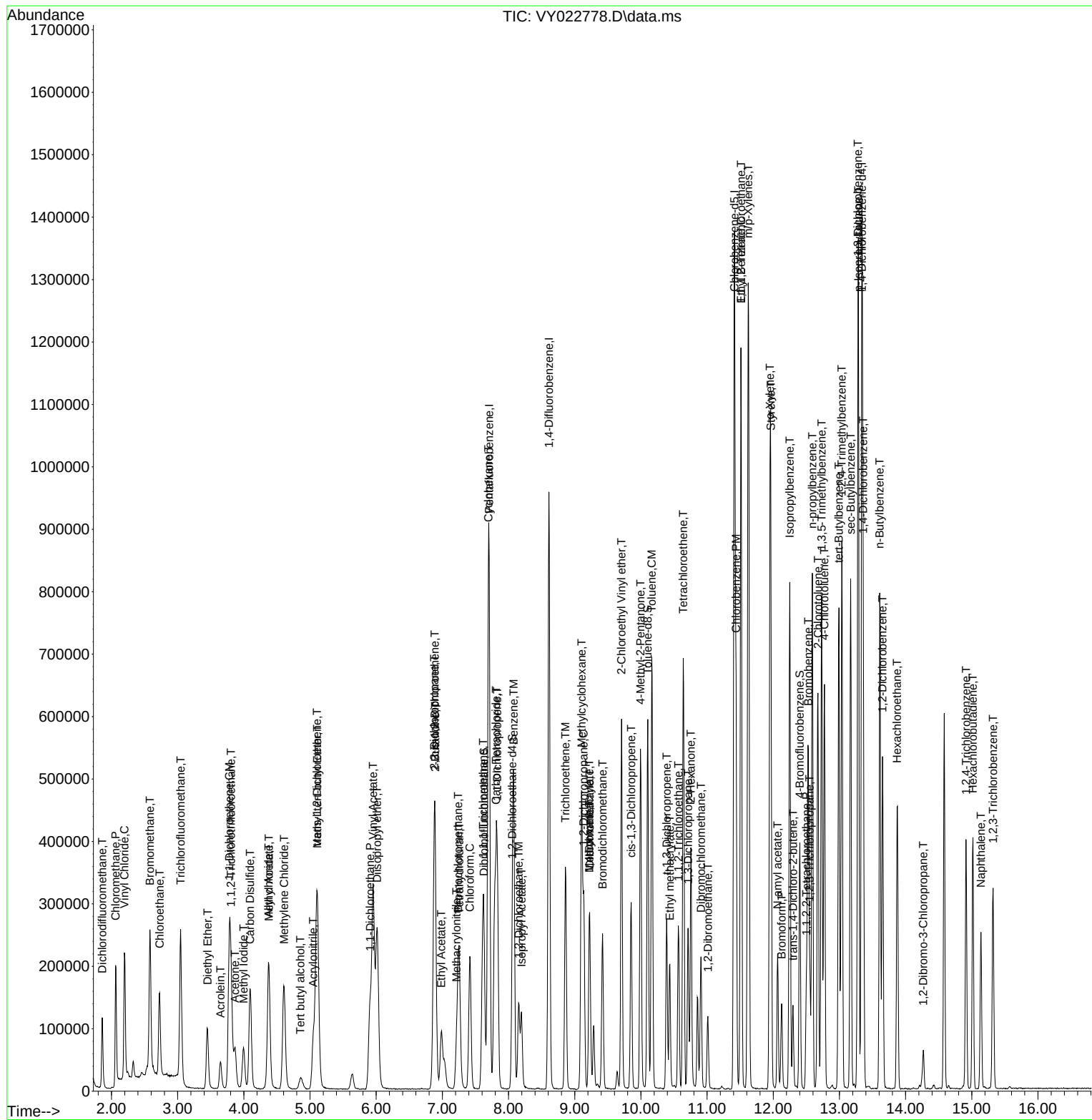
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 Data File : VY022778.D
 Acq On : 23 Jun 2025 14:23
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:51:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022779.D
 Acq On : 23 Jun 2025 14:46
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:52:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	466305	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	785509	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	682333	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	344728	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	260449	50.044	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.080%			
35) Dibromofluoromethane	7.634	113	238601	49.947	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.900%			
50) Toluene-d8	10.103	98	954176	50.336	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.680%			
62) 4-Bromofluorobenzene	12.401	95	302230	49.596	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.200%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.861	85	197658	49.571	ug/l	100
3) Chloromethane	2.062	50	369888	48.580	ug/l	100
4) Vinyl Chloride	2.196	62	487333	51.231	ug/l	100
5) Bromomethane	2.586	94	359349	48.052	ug/l	100
6) Chloroethane	2.726	64	323583	50.606	ug/l	100
7) Trichlorofluoromethane	3.043	101	543608	51.610	ug/l	100
8) Diethyl Ether	3.452	74	132997	51.123	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.805	101	240341	49.930	ug/l	100
10) Methyl Iodide	3.994	142	292108	55.737	ug/l	100
11) Tert butyl alcohol	4.860	59	89018	257.234	ug/l	100
12) 1,1-Dichloroethene	3.781	96	239818	50.810	ug/l	100
13) Acrolein	3.647	56	115313	245.735	ug/l	100
14) Allyl chloride	4.378	41	371698	51.200	ug/l	100
15) Acrylonitrile	5.049	53	281372	259.229	ug/l	100
16) Acetone	3.866	43	222401	226.091	ug/l	100
17) Carbon Disulfide	4.098	76	777454	50.988	ug/l	100
18) Methyl Acetate	4.378	43	163588	50.217	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	669314	52.080	ug/l	100
20) Methylene Chloride	4.604	84	275283	44.313	ug/l	100
21) trans-1,2-Dichloroethene	5.104	96	276104	51.184	ug/l	100
22) Diisopropyl ether	6.018	45	834245	51.744	ug/l	100
23) Vinyl Acetate	5.951	43	2354219	264.392	ug/l	100
24) 1,1-Dichloroethane	5.909	63	502277	51.577	ug/l	100
25) 2-Butanone	6.890	43	357225	249.517	ug/l	100
26) 2,2-Dichloropropane	6.878	77	412194	50.494	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	319602	50.988	ug/l	100
28) Bromochloromethane	7.244	49	214101	52.294	ug/l	100
29) Tetrahydrofuran	7.256	42	237439	262.648	ug/l	100
30) Chloroform	7.421	83	511015	50.947	ug/l	100
31) Cyclohexane	7.695	56	441072	49.341	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	442929	51.101	ug/l	100
36) 1,1-Dichloropropene	7.829	75	368198	50.850	ug/l	100
37) Ethyl Acetate	6.982	43	161593	51.717	ug/l	100
38) Carbon Tetrachloride	7.817	117	385426	50.447	ug/l	100
39) Methylcyclohexane	9.103	83	485179	51.778	ug/l	100
40) Benzene	8.073	78	1150210	51.666	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022779.D
 Acq On : 23 Jun 2025 14:46
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:52:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	93931	47.652	ug/l	100
42) 1,2-Dichloroethane	8.152	62	314067	51.482	ug/l	100
43) Isopropyl Acetate	8.195	43	342439	52.731	ug/l	100
44) Trichloroethene	8.859	130	292433	52.319	ug/l	100
45) 1,2-Dichloropropane	9.140	63	266251	51.100	ug/l	100
46) Dibromomethane	9.231	93	150422	50.856	ug/l	100
47) Bromodichloromethane	9.420	83	391542	51.335	ug/l	100
48) Methyl methacrylate	9.219	41	168241	53.890	ug/l	100
49) 1,4-Dioxane	9.231	88	36253	1037.426	ug/l	100
51) 4-Methyl-2-Pentanone	9.993	43	886055	268.494	ug/l	100
52) Toluene	10.170	92	727451	51.795	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	354481	51.655	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	411345	51.696	ug/l	100
55) 1,1,2-Trichloroethane	10.566	97	198415	51.805	ug/l	100
56) Ethyl methacrylate	10.432	69	277956	53.942	ug/l	100
57) 1,3-Dichloropropane	10.713	76	344212	51.512	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	664611	245.688	ug/l	100
59) 2-Hexanone	10.755	43	594522	264.979	ug/l	100
60) Dibromochloromethane	10.908	129	258124	52.176	ug/l	100
61) 1,2-Dibromoethane	11.011	107	185981	51.892	ug/l	100
64) Tetrachloroethene	10.646	164	351675	54.557	ug/l	100
65) Chlorobenzene	11.438	112	768503	51.257	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.511	131	262905	51.771	ug/l	100
67) Ethyl Benzene	11.517	91	1384381	52.553	ug/l	100
68) m/p-Xylenes	11.627	106	1067204	104.802	ug/l	100
69) o-Xylene	11.950	106	501048	52.219	ug/l	100
70) Styrene	11.962	104	852365	53.034	ug/l	100
71) Bromoform	12.127	173	144890	51.241	ug/l #	100
73) Isopropylbenzene	12.249	105	1302433	51.086	ug/l	100
74) N-amyl acetate	12.066	43	309312	54.051	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.499	83	195531	47.587	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	175695m	48.399	ug/l	100
77) Bromobenzene	12.529	156	293698	50.823	ug/l	100
78) n-propylbenzene	12.590	91	1572487	51.086	ug/l	100
79) 2-Chlorotoluene	12.676	91	887920	51.056	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	1055520	51.286	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	68487	49.163	ug/l	100
82) 4-Chlorotoluene	12.773	91	929596	50.888	ug/l	100
83) tert-Butylbenzene	12.993	119	937562	51.654	ug/l	100
84) 1,2,4-Trimethylbenzene	13.035	105	1068099	51.835	ug/l	100
85) sec-Butylbenzene	13.170	105	1412230	51.712	ug/l	100
86) p-Isopropyltoluene	13.285	119	1176992	51.790	ug/l	100
87) 1,3-Dichlorobenzene	13.279	146	588857	50.737	ug/l	100
88) 1,4-Dichlorobenzene	13.358	146	581012	50.397	ug/l	100
89) n-Butylbenzene	13.608	91	1104530	51.668	ug/l	100
90) Hexachloroethane	13.871	117	232074	51.271	ug/l	100
91) 1,2-Dichlorobenzene	13.651	146	516584	50.508	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	35564	51.039	ug/l	100
93) 1,2,4-Trichlorobenzene	14.913	180	290624	50.327	ug/l	100
94) Hexachlorobutadiene	15.017	225	160111	49.032	ug/l	100
95) Naphthalene	15.139	128	551169	52.780	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	251077	50.316	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022779.D
Acq On : 23 Jun 2025 14:46
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:52:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 02:48:20 2025
Response via : Initial Calibration

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

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

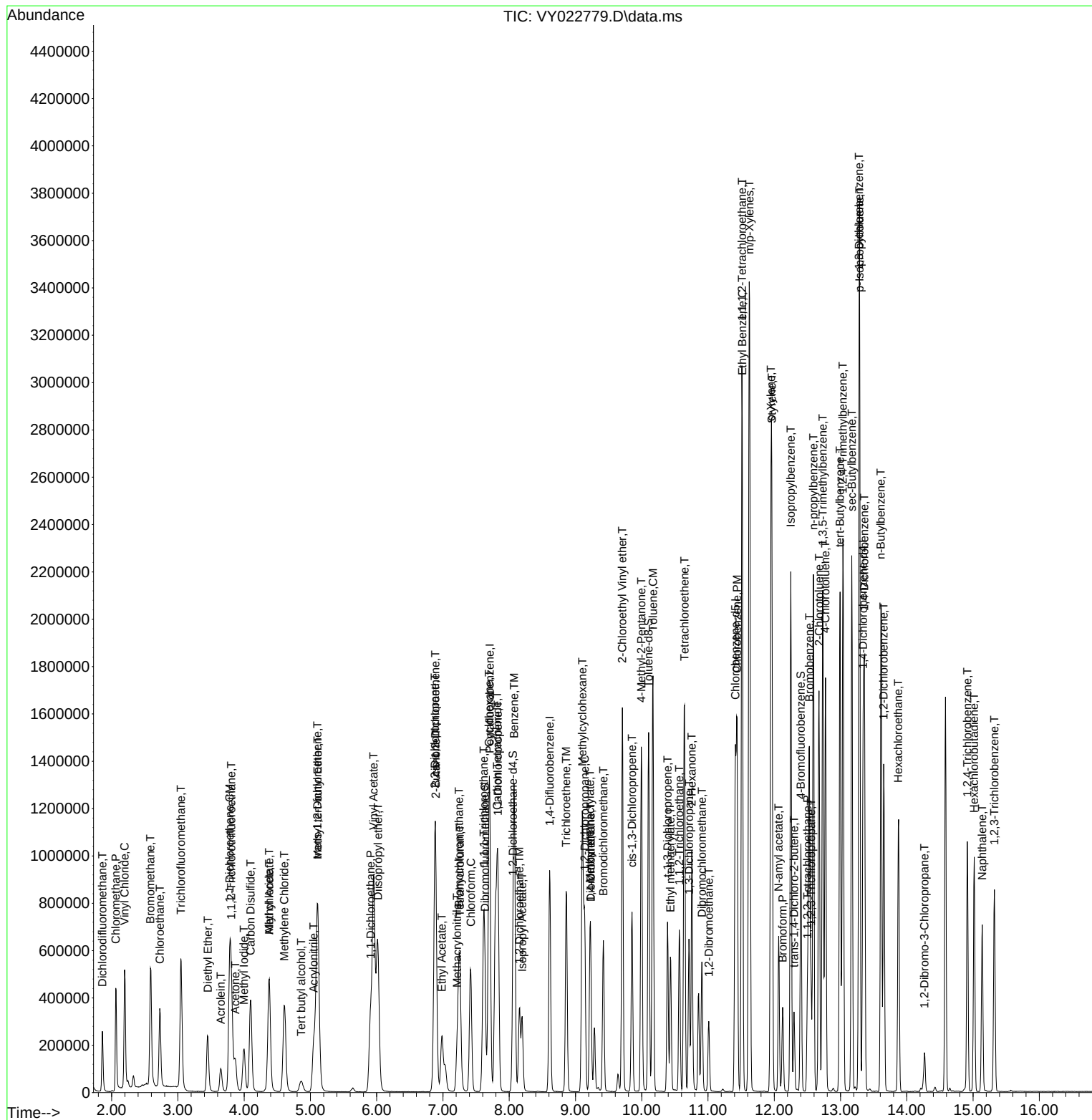
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022779.D
Acq On : 23 Jun 2025 14:46
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Jun 24 02:52:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 02:48:20 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022780.D
 Acq On : 23 Jun 2025 15:08
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:53:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.701	168	475581	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	797167	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	712427	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	372652	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.055	65	542659	102.235	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 204.460%#	
35) Dibromofluoromethane	7.628	113	500461	103.231	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 206.460%#	
50) Toluene-d8	10.103	98	2012122	104.594	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 209.180%#	
62) 4-Bromofluorobenzene	12.402	95	673658	108.931	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 217.860%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	383820	94.381	ug/l	97
3) Chloromethane	2.062	50	721237	92.877	ug/l	96
4) Vinyl Chloride	2.196	62	944075	97.310	ug/l	100
5) Bromomethane	2.580	94	723247	94.826	ug/l	100
6) Chloroethane	2.726	64	639835	98.113	ug/l	96
7) Trichlorofluoromethane	3.043	101	1072039	99.794	ug/l	98
8) Diethyl Ether	3.446	74	267488	100.816	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.805	101	467671	95.263	ug/l	99
10) Methyl Iodide	3.994	142	581464	108.785	ug/l	99
11) Tert butyl alcohol	4.854	59	184238	522.007	ug/l	99
12) 1,1-Dichloroethene	3.781	96	475211	98.719	ug/l	96
13) Acrolein	3.647	56	232931	486.701	ug/l	98
14) Allyl chloride	4.372	41	751070	101.438	ug/l	100
15) Acrylonitrile	5.049	53	578586	522.657	ug/l	99
16) Acetone	3.866	43	454852	453.380	ug/l	93
17) Carbon Disulfide	4.098	76	1545558	99.386	ug/l	99
18) Methyl Acetate	4.379	43	336182	101.185	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	1388952	105.967	ug/l	99
20) Methylene Chloride	4.604	84	549956	86.802	ug/l	98
21) trans-1,2-Dichloroethene	5.104	96	552497	100.424	ug/l	93
22) Diisopropyl ether	6.012	45	1716130	104.367	ug/l	98
23) Vinyl Acetate	5.951	43	4870879	536.357	ug/l	100
24) 1,1-Dichloroethane	5.909	63	1003848	101.070	ug/l	99
25) 2-Butanone	6.884	43	743716	509.343	ug/l	98
26) 2,2-Dichloropropane	6.878	77	821294	98.646	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	653863	102.279	ug/l	99
28) Bromochloromethane	7.238	49	421499	100.943	ug/l	98
29) Tetrahydrofuran	7.256	42	489018	530.386	ug/l	99
30) Chloroform	7.415	83	1031414	100.825	ug/l	99
31) Cyclohexane	7.695	56	860538	94.387	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	892886	101.003	ug/l	99
36) 1,1-Dichloropropene	7.829	75	745473	101.447	ug/l	100
37) Ethyl Acetate	6.982	43	335415	105.778	ug/l	98
38) Carbon Tetrachloride	7.811	117	784957	101.239	ug/l	99
39) Methylcyclohexane	9.103	83	969618	101.963	ug/l	97
40) Benzene	8.073	78	2338781	103.518	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022780.D
 Acq On : 23 Jun 2025 15:08
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:53:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	172503	86.232	ug/l	90
42) 1,2-Dichloroethane	8.152	62	644142	104.044	ug/l	100
43) Isopropyl Acetate	8.195	43	703942	106.813	ug/l	99
44) Trichloroethene	8.859	130	573927	101.178	ug/l	94
45) 1,2-Dichloropropane	9.140	63	543704	102.824	ug/l	100
46) Dibromomethane	9.225	93	308843	102.889	ug/l	99
47) Bromodichloromethane	9.420	83	803009	103.743	ug/l	99
48) Methyl methacrylate	9.219	41	348723	110.068	ug/l	99
49) 1,4-Dioxane	9.225	88	74032	2087.539	ug/l	95
51) 4-Methyl-2-Pentanone	9.993	43	1833298	547.404	ug/l	100
52) Toluene	10.170	92	1522485	106.816	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	754526	108.342	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	860746	106.593	ug/l	97
55) 1,1,2-Trichloroethane	10.566	97	407343	104.800	ug/l	99
56) Ethyl methacrylate	10.432	69	592646	113.331	ug/l	99
57) 1,3-Dichloropropane	10.713	76	705449	104.027	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	1439247	506.517	ug/l	99
59) 2-Hexanone	10.755	43	1250090	549.018	ug/l	99
60) Dibromochloromethane	10.908	129	535327	106.627	ug/l	99
61) 1,2-Dibromoethane	11.012	107	388631	106.848	ug/l	99
64) Tetrachloroethene	10.646	164	674360	100.198	ug/l	98
65) Chlorobenzene	11.438	112	1610361	102.870	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.511	131	559842	105.587	ug/l	99
67) Ethyl Benzene	11.511	91	2906187	105.662	ug/l	99
68) m/p-Xylenes	11.627	106	2278768	214.327	ug/l	99
69) o-Xylene	11.950	106	1082170	108.020	ug/l	99
70) Styrene	11.963	104	1865505	111.168	ug/l	99
71) Bromoform	12.127	173	321083	108.756	ug/l #	98
73) Isopropylbenzene	12.249	105	2764621	100.312	ug/l	99
74) N-amyl acetate	12.066	43	667613	107.920	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.499	83	442467	99.615	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	364588m	92.907	ug/l	
77) Bromobenzene	12.530	156	631186	101.040	ug/l	99
78) n-propylbenzene	12.590	91	3318659	99.735	ug/l	99
79) 2-Chlorotoluene	12.676	91	1904783	101.319	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	2286529	102.773	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	157671	104.703	ug/l	94
82) 4-Chlorotoluene	12.773	91	2025702	102.582	ug/l	99
83) tert-Butylbenzene	12.993	119	1990057	101.425	ug/l	100
84) 1,2,4-Trimethylbenzene	13.036	105	2310931	103.747	ug/l	99
85) sec-Butylbenzene	13.170	105	2993511	101.400	ug/l	99
86) p-Isopropyltoluene	13.285	119	2565197	104.416	ug/l	100
87) 1,3-Dichlorobenzene	13.279	146	1304649	103.989	ug/l	100
88) 1,4-Dichlorobenzene	13.359	146	1259287	101.046	ug/l	100
89) n-Butylbenzene	13.609	91	2355349	101.924	ug/l	99
90) Hexachloroethane	13.877	117	487480	99.627	ug/l	98
91) 1,2-Dichlorobenzene	13.651	146	1129471	102.157	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	75666	100.453	ug/l	99
93) 1,2,4-Trichlorobenzene	14.913	180	648932	103.955	ug/l	99
94) Hexachlorobutadiene	15.017	225	334737	94.827	ug/l	99
95) Naphthalene	15.139	128	1263808	111.955	ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	559578	103.737	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022780.D
Acq On : 23 Jun 2025 15:08
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:53:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 02:48:20 2025
Response via : Initial Calibration

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

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

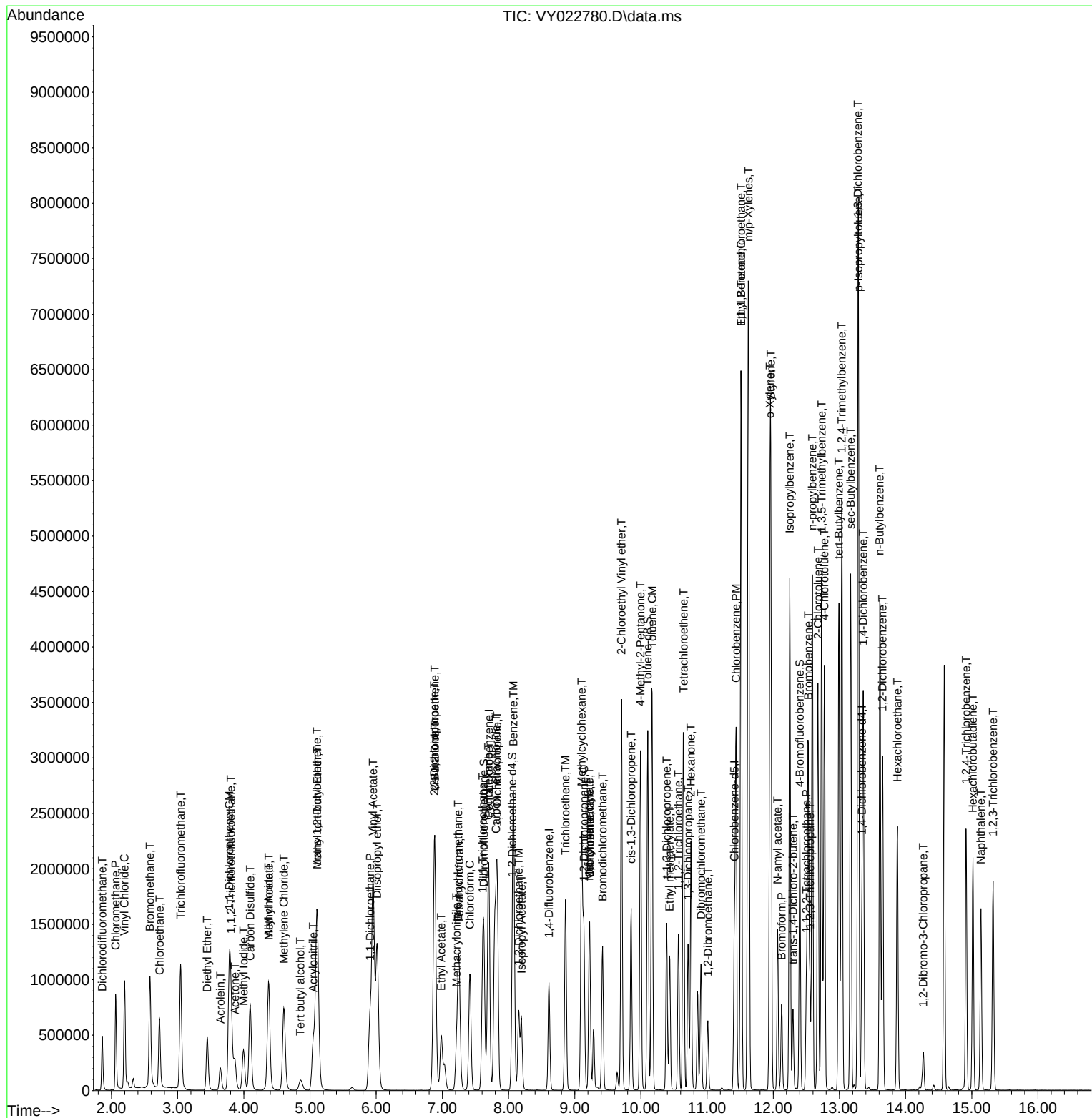
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022780.D
 Acq On : 23 Jun 2025 15:08
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Quant Time: Jun 24 02:53:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 06/24/2025
 Supervised By : Semsettin Yesilyurt 06/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022781.D
 Acq On : 23 Jun 2025 15:31
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:54:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	487197	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	805416	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	724825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	371200	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.055	65	796965	146.565	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 293.140%#	
35) Dibromofluoromethane	7.628	113	745134	152.126	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 304.260%#	
50) Toluene-d8	10.103	98	3013418	155.039	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 310.080%#	
62) 4-Bromofluorobenzene	12.402	95	1016821	162.737	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 325.480%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	561426	134.762	ug/l	98
3) Chloromethane	2.062	50	1057912	132.984	ug/l	98
4) Vinyl Chloride	2.196	62	1399862	140.850	ug/l	99
5) Bromomethane	2.574	94	1105489	141.487	ug/l	98
6) Chloroethane	2.720	64	936104	140.121	ug/l	99
7) Trichlorofluoromethane	3.043	101	1586258	144.141	ug/l	100
8) Diethyl Ether	3.446	74	396737	145.964	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.799	101	693105	137.817	ug/l	99
10) Methyl Iodide	3.995	142	840407	153.482	ug/l	100
11) Tert butyl alcohol	4.854	59	266185	736.208	ug/l	99
12) 1,1-Dichloroethene	3.775	96	705539	143.072	ug/l	99
13) Acrolein	3.647	56	345938	705.591	ug/l	99
14) Allyl chloride	4.373	41	1152496	151.943	ug/l	99
15) Acrylonitrile	5.049	53	846962	746.849	ug/l	99
16) Acetone	3.860	43	636155	618.978	ug/l	93
17) Carbon Disulfide	4.092	76	2289343	143.705	ug/l	99
18) Methyl Acetate	4.373	43	470360	138.195	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	2054163	152.981	ug/l	100
20) Methylene Chloride	4.604	84	800473	123.330	ug/l	98
21) trans-1,2-Dichloroethene	5.104	96	840284	149.092	ug/l	97
22) Diisopropyl ether	6.012	45	2598616	154.267	ug/l	99
23) Vinyl Acetate	5.952	43	7328920	787.783	ug/l	98
24) 1,1-Dichloroethane	5.903	63	1504725	147.888	ug/l	100
25) 2-Butanone	6.890	43	1071039	716.025	ug/l	98
26) 2,2-Dichloropropane	6.878	77	1237615	145.107	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	990315	151.215	ug/l	98
28) Bromochloromethane	7.238	49	623792	145.828	ug/l	98
29) Tetrahydrofuran	7.256	42	708429	750.039	ug/l	98
30) Chloroform	7.415	83	1547385	147.656	ug/l	97
31) Cyclohexane	7.695	56	1306948	139.933	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	1349504	149.016	ug/l	99
36) 1,1-Dichloropropene	7.829	75	1122908	151.246	ug/l	99
37) Ethyl Acetate	6.982	43	483616	150.953	ug/l	100
38) Carbon Tetrachloride	7.811	117	1186256	151.429	ug/l	98
39) Methylcyclohexane	9.103	83	1475329	153.554	ug/l	98
40) Benzene	8.073	78	3478622	152.393	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022781.D
 Acq On : 23 Jun 2025 15:31
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

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Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:54:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 02:48:20 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	296053	146.477	ug/l	97
42) 1,2-Dichloroethane	8.152	62	946330	151.288	ug/l	100
43) Isopropyl Acetate	8.195	43	1024167	153.810	ug/l	99
44) Trichloroethene	8.860	130	846785	147.752	ug/l	97
45) 1,2-Dichloropropane	9.140	63	814039	152.372	ug/l	99
46) Dibromomethane	9.225	93	458817	151.287	ug/l	99
47) Bromodichloromethane	9.420	83	1203370	153.874	ug/l	100
48) Methyl methacrylate	9.213	41	500939	156.493	ug/l	98
49) 1,4-Dioxane	9.225	88	112563	3141.521	ug/l	96
51) 4-Methyl-2-Pentanone	9.993	43	2671727	789.580	ug/l	99
52) Toluene	10.164	92	2305726	160.110	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	1142721	162.402	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	1300617	159.417	ug/l	98
55) 1,1,2-Trichloroethane	10.567	97	603625	153.708	ug/l	99
56) Ethyl methacrylate	10.432	69	902735	170.861	ug/l	98
57) 1,3-Dichloropropane	10.713	76	1045814	152.639	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	2166504	746.984	ug/l	99
59) 2-Hexanone	10.756	43	1801932	783.272	ug/l	97
60) Dibromochloromethane	10.908	129	795480	156.822	ug/l	99
61) 1,2-Dibromoethane	11.012	107	569130	154.871	ug/l	99
64) Tetrachloroethene	10.640	164	970361	141.712	ug/l	98
65) Chlorobenzene	11.438	112	2422303	152.091	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	840296	155.771	ug/l	99
67) Ethyl Benzene	11.511	91	4388572	156.829	ug/l	98
68) m/p-Xylenes	11.627	106	3439594	317.973	ug/l	98
69) o-Xylene	11.950	106	1664173	163.273	ug/l	98
70) Styrene	11.963	104	2846995	166.754	ug/l	99
71) Bromoform	12.127	173	478356	159.256	ug/l #	99
73) Isopropylbenzene	12.249	105	4185860	152.475	ug/l	99
74) N-amyl acetate	12.066	43	1001716	162.561	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.499	83	660490	149.281	ug/l	99
76) 1,2,3-Trichloropropane	12.548	75	528364m	135.169	ug/l	
77) Bromobenzene	12.530	156	951688	152.942	ug/l	100
78) n-propylbenzene	12.591	91	4948353	149.293	ug/l	99
79) 2-Chlorotoluene	12.676	91	2829859	151.115	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	3395371	153.210	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	228578	152.383	ug/l	93
82) 4-Chlorotoluene	12.773	91	3004256	152.731	ug/l	100
83) tert-Butylbenzene	12.993	119	3013552	154.188	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	3450572	155.516	ug/l	99
85) sec-Butylbenzene	13.170	105	4391401	149.333	ug/l	98
86) p-Isopropyltoluene	13.286	119	3802837	155.399	ug/l	99
87) 1,3-Dichlorobenzene	13.279	146	1942052	155.399	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	1855055	149.433	ug/l	99
89) n-Butylbenzene	13.615	91	3459894	150.307	ug/l	98
90) Hexachloroethane	13.871	117	733958	150.586	ug/l	98
91) 1,2-Dichlorobenzene	13.651	146	1672579	151.871	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	106711	142.222	ug/l	96
93) 1,2,4-Trichlorobenzene	14.913	180	941295	151.380	ug/l	99
94) Hexachlorobutadiene	15.017	225	472010	134.238	ug/l	99
95) Naphthalene	15.139	128	1842806	163.884	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	809138	150.588	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022781.D
Acq On : 23 Jun 2025 15:31
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 02:48:20 2025
Response via : Initial Calibration

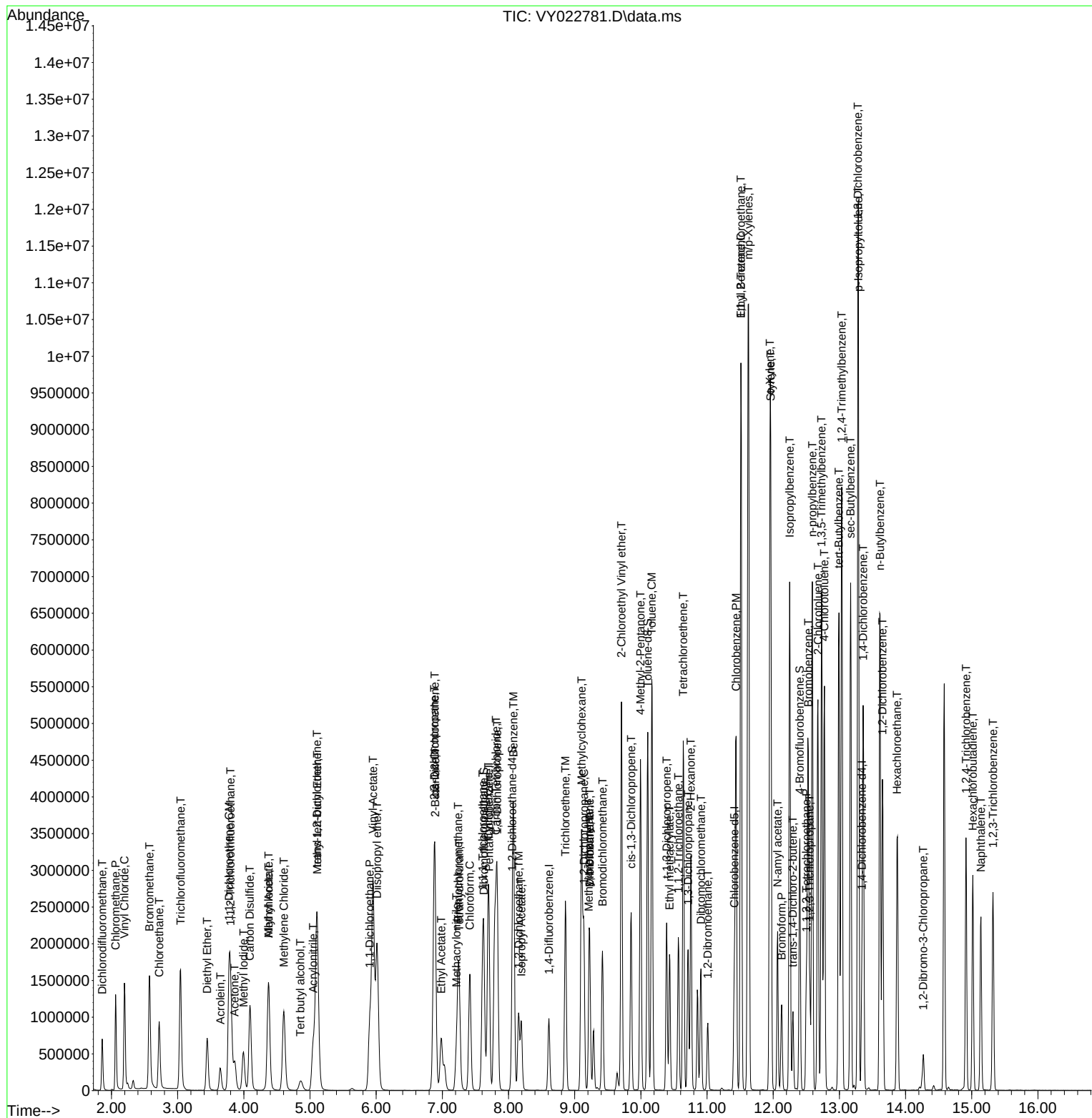
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022783.D
 Acq On : 23 Jun 2025 16:17
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY062325

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
 Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 03:36:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 03:08:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.701	168	480076	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	806385	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	709921	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	359311	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	268490	50.109	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.220%			
35) Dibromofluoromethane	7.628	113	246693	50.304	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.600%			
50) Toluene-d8	10.103	98	968221	49.755	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.500%			
62) 4-Bromofluorobenzene	12.401	95	314924	50.342	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.680%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	188576	45.936	ug/l	99
3) Chloromethane	2.068	50	383362	48.905	ug/l	97
4) Vinyl Chloride	2.196	62	480207	49.034	ug/l	100
5) Bromomethane	2.586	94	372449	48.375	ug/l	98
6) Chloroethane	2.726	64	317341	48.206	ug/l	98
7) Trichlorofluoromethane	3.043	101	519156	47.875	ug/l	99
8) Diethyl Ether	3.452	74	128819	48.097	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.805	101	234148	47.248	ug/l	98
10) Methyl Iodide	3.994	142	252766	46.847	ug/l	100
11) Tert butyl alcohol	4.860	59	90461	253.906	ug/l #	86
12) 1,1-Dichloroethene	3.781	96	232605	47.868	ug/l	94
13) Acrolein	3.647	56	99713	206.396	ug/l	100
14) Allyl chloride	4.378	41	357454	47.825	ug/l	99
15) Acrylonitrile	5.049	53	278053	248.823	ug/l	99
16) Acetone	3.860	43	217427	214.694	ug/l	95
17) Carbon Disulfide	4.098	76	753545	48.003	ug/l	99
18) Methyl Acetate	4.385	43	169460	50.527	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	652685	49.329	ug/l	99
20) Methylene Chloride	4.610	84	279076	43.635	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	266943	48.066	ug/l	98
22) Diisopropyl ether	6.012	45	800669	48.237	ug/l	93
23) Vinyl Acetate	5.951	43	2264377	247.008	ug/l	99
24) 1,1-Dichloroethane	5.909	63	486998	48.573	ug/l	99
25) 2-Butanone	6.890	43	353339	239.723	ug/l	98
26) 2,2-Dichloropropane	6.878	77	388040	46.171	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	308904	47.867	ug/l	100
28) Bromochloromethane	7.244	49	211120	50.087	ug/l	100
29) Tetrahydrofuran	7.256	42	235186	252.693	ug/l	100
30) Chloroform	7.414	83	500741	48.491	ug/l	97
31) Cyclohexane	7.695	56	422671	45.926	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	431799	48.388	ug/l	99
36) 1,1-Dichloropropene	7.829	75	354829	47.735	ug/l	100
37) Ethyl Acetate	6.982	43	160039	49.894	ug/l	99
38) Carbon Tetrachloride	7.817	117	373583	47.632	ug/l	98
39) Methylcyclohexane	9.103	83	463905	48.226	ug/l	98
40) Benzene	8.073	78	1105593	48.376	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022783.D
 Acq On : 23 Jun 2025 16:17
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY062325

Manual Integrations
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Quant Time: Jun 24 03:36:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 03:08:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	106081m	53.720	ug/l	
42) 1,2-Dichloroethane	8.152	62	307548	49.108	ug/l	100
43) Isopropyl Acetate	8.195	43	333219	49.983	ug/l	99
44) Trichloroethene	8.859	130	274874	47.904	ug/l	98
45) 1,2-Dichloropropane	9.140	63	259472	48.510	ug/l	100
46) Dibromomethane	9.231	93	145961	48.070	ug/l	98
47) Bromodichloromethane	9.420	83	382665	48.872	ug/l	99
48) Methyl methacrylate	9.219	41	164362	51.285	ug/l	99
49) 1,4-Dioxane	9.225	88	35276	983.335	ug/l	96
51) 4-Methyl-2-Pentanone	9.993	43	867628	256.103	ug/l	99
52) Toluene	10.170	92	704960	48.894	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	348211	49.428	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	404721	49.547	ug/l	99
55) 1,1,2-Trichloroethane	10.566	97	194151	49.380	ug/l	98
56) Ethyl methacrylate	10.432	69	270067	51.054	ug/l	99
57) 1,3-Dichloropropane	10.713	76	340025	49.568	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	680973	245.249	ug/l	100
59) 2-Hexanone	10.755	43	580425	251.999	ug/l	99
60) Dibromochloromethane	10.908	129	253700	49.955	ug/l	100
61) 1,2-Dibromoethane	11.011	107	181754	49.399	ug/l	99
64) Tetrachloroethene	10.646	164	303522	45.257	ug/l	98
65) Chlorobenzene	11.438	112	750243	48.095	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.511	131	253468	47.973	ug/l	99
67) Ethyl Benzene	11.517	91	1351655	49.316	ug/l	100
68) m/p-Xylenes	11.621	106	1043651	98.506	ug/l	100
69) o-Xylene	11.950	106	495462	49.631	ug/l	99
70) Styrene	11.962	104	834381	49.897	ug/l	99
71) Bromoform	12.127	173	142330	48.380	ug/l	99
73) Isopropylbenzene	12.249	105	1264391	47.581	ug/l	100
74) N-amyl acetate	12.066	43	299778	50.258	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.499	83	213316	49.808	ug/l	99
76) 1,2,3-Trichloropropane	12.548	75	171584m	46.775	ug/l	
77) Bromobenzene	12.529	156	287890	47.796	ug/l	100
78) n-propylbenzene	12.590	91	1543476	48.108	ug/l	100
79) 2-Chlorotoluene	12.676	91	871527	48.080	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	1052077	49.044	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	66143	45.554	ug/l	99
82) 4-Chlorotoluene	12.773	91	919177	48.276	ug/l	99
83) tert-Butylbenzene	12.993	119	917192	48.481	ug/l	99
84) 1,2,4-Trimethylbenzene	13.035	105	1058356	49.278	ug/l	99
85) sec-Butylbenzene	13.170	105	1377847	48.405	ug/l	100
86) p-Isopropyltoluene	13.285	119	1157677	48.873	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	584110	48.286	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	574913	47.844	ug/l	100
89) n-Butylbenzene	13.615	91	1083397	48.623	ug/l	100
90) Hexachloroethane	13.877	117	228507	48.434	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	512081	48.036	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	35693	49.145	ug/l	99
93) 1,2,4-Trichlorobenzene	14.913	180	293980	48.842	ug/l	99
94) Hexachlorobutadiene	15.017	225	157173	46.178	ug/l	98
95) Naphthalene	15.139	128	558879	51.347	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	252267	48.503	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022783.D
Acq On : 23 Jun 2025 16:17
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY062325

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Quant Title : SW846 8260
QLast Update : Tue Jun 24 03:08:29 2025
Response via : Initial Calibration

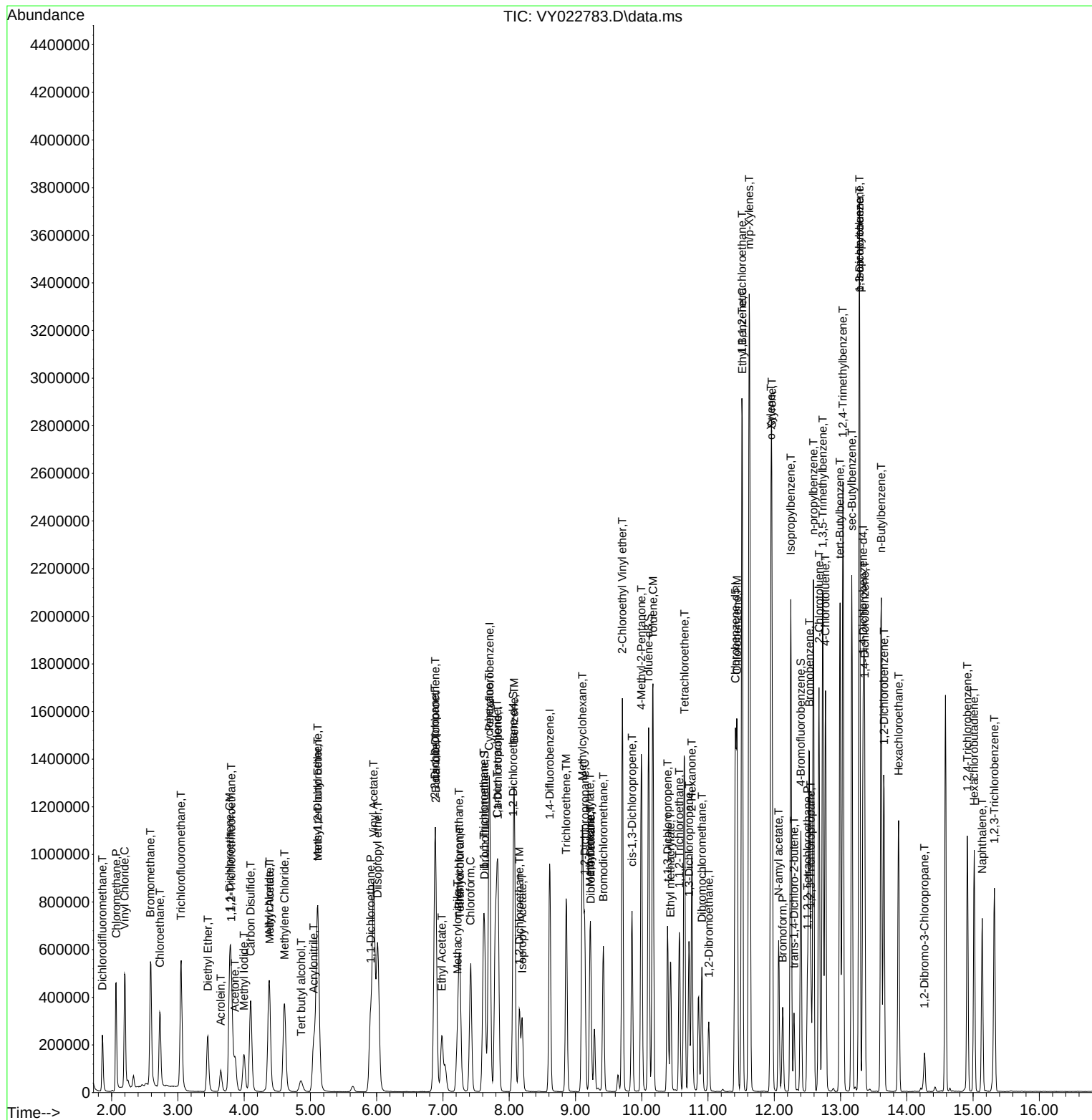
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
ICVY062325

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 Acq On : 23 Jun 2025 16:17
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY062325

Quant Time: Jun 24 03:36:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 03:08:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	103	-0.01
2 T	Dichlorodifluoromethane	0.428	0.393	8.2	95	0.00
3 P	Chloromethane	0.816	0.799	2.1	104	0.00
4 C	Vinyl Chloride	1.020	1.000	2.0#	99	0.00
5 T	Bromomethane	0.802	0.776	3.2	104	-0.01
6 T	Chloroethane	0.686	0.661	3.6	98	-0.01
7 T	Trichlorofluoromethane	1.129	1.081	4.3	96	-0.01
8 T	Diethyl Ether	0.279	0.268	3.9	97	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.516	0.488	5.4	97	-0.01
10 T	Methyl Iodide	0.562	0.527	6.2	87	-0.01
11 T	Tert butyl alcohol	0.037	0.038	-2.7	102	-0.02
12 CM	1,1-Dichloroethene	0.506	0.485	4.2#	97	-0.02
13 T	Acrolein	0.050	0.042	16.0	86	-0.01
14 T	Allyl chloride	0.778	0.745	4.2	96	-0.01
15 T	Acrylonitrile	0.116	0.116	0.0	99	-0.02
16 T	Acetone	0.105	0.091	13.3	98	-0.02
17 T	Carbon Disulfide	1.635	1.570	4.0	97	-0.01
18 T	Methyl Acetate	0.349	0.353	-1.1	104	-0.01
19 T	Methyl tert-butyl Ether	1.378	1.360	1.3	98	-0.02
20 T	Methylene Chloride	0.666	0.581	12.8	101	-0.01
21 T	trans-1,2-Dichloroethene	0.578	0.556	3.8	97	-0.01
22 T	Diisopropyl ether	1.729	1.668	3.5	96	-0.01
23 T	Vinyl Acetate	0.955	0.943	1.3	96	-0.02
24 P	1,1-Dichloroethane	1.044	1.014	2.9	97	-0.01
25 T	2-Butanone	0.154	0.147	4.5	99	-0.01
26 T	2,2-Dichloropropane	0.875	0.808	7.7	94	-0.01
27 T	cis-1,2-Dichloroethene	0.672	0.643	4.3	97	-0.01
28 T	Bromochloromethane	0.439	0.440	-0.2	99	0.00
29 T	Tetrahydrofuran	0.097	0.098	-1.0	99	-0.01
30 C	Chloroform	1.076	1.043	3.1#	98	-0.01
31 T	Cyclohexane	0.959	0.880	8.2	96	-0.01
32 T	1,1,1-Trichloroethane	0.929	0.899	3.2	97	0.00
33 S	1,2-Dichloroethane-d4	0.558	0.559	-0.2	103	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
35 S	Dibromofluoromethane	0.304	0.306	-0.7	103	-0.01
36 T	1,1-Dichloropropene	0.461	0.440	4.6	96	-0.01
37 T	Ethyl Acetate	0.199	0.198	0.5	99	-0.01
38 T	Carbon Tetrachloride	0.486	0.463	4.7	97	0.00
39 T	Methylcyclohexane	0.596	0.575	3.5	96	-0.01
40 TM	Benzene	1.417	1.371	3.2	96	-0.01
41 T	Methacrylonitrile	0.122	0.132	-8.2	113	-0.01
42 TM	1,2-Dichloroethane	0.388	0.381	1.8	98	-0.01
43 T	Isopropyl Acetate	0.413	0.413	0.0	97	0.00
44 TM	Trichloroethene	0.356	0.341	4.2	94	0.00
45 C	1,2-Dichloropropane	0.332	0.322	3.0#	97	0.00
46 T	Dibromomethane	0.188	0.181	3.7	97	0.00
47 T	Bromodichloromethane	0.485	0.475	2.1	98	0.00
48 T	Methyl methacrylate	0.199	0.204	-2.5	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022783.D
 Acq On : 23 Jun 2025 16:17
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY062325

Quant Time: Jun 24 03:36:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 03:08:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	97	-0.02
50 S	Toluene-d8	1.207	1.201	0.5	101	0.00
51 T	4-Methyl-2-Pentanone	0.210	0.215	-2.4	98	0.00
52 CM	Toluene	0.894	0.874	2.2#	97	0.00
53 T	t-1,3-Dichloropropene	0.437	0.432	1.1	98	0.00
54 T	cis-1,3-Dichloropropene	0.506	0.502	0.8	98	0.00
55 T	1,1,2-Trichloroethane	0.244	0.241	1.2	98	0.00
56 T	Ethyl methacrylate	0.328	0.335	-2.1	97	-0.01
57 T	1,3-Dichloropropane	0.425	0.422	0.7	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.145	0.169	-16.6	102	0.00
59 T	2-Hexanone	0.143	0.144	-0.7	98	0.00
60 T	Dibromochloromethane	0.315	0.315	0.0	98	0.00
61 T	1,2-Dibromoethane	0.228	0.225	1.3	98	0.00
62 S	4-Bromofluorobenzene	0.388	0.391	-0.8	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64 T	Tetrachloroethene	0.472	0.428	9.3	86	0.00
65 PM	Chlorobenzene	1.099	1.057	3.8	98	0.00
66 T	1,1,1,2-Tetrachloroethane	0.372	0.357	4.0	96	0.00
67 C	Ethyl Benzene	1.930	1.904	1.3#	98	0.00
68 T	m/p-Xylenes	0.746	0.735	1.5	98	-0.01
69 T	o-Xylene	0.703	0.698	0.7	99	0.00
70 T	Styrene	1.178	1.175	0.3	98	0.00
71 P	Bromoform	0.207	0.200	3.4	98	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
73 T	Isopropylbenzene	3.698	3.519	4.8	97	0.00
74 T	N-amyl acetate	0.830	0.834	-0.5	97	0.00
75 P	1,1,2,2-Tetrachloroethane	0.596	0.594	0.3	109	0.00
76 T	1,2,3-Trichloropropane	0.510	0.478	6.3	98	0.00
77 T	Bromobenzene	0.838	0.801	4.4	98	0.00
78 T	n-propylbenzene	4.465	4.296	3.8	98	0.00
79 T	2-Chlorotoluene	2.522	2.426	3.8	98	0.00
80 T	1,3,5-Trimethylbenzene	2.985	2.928	1.9	100	0.00
81 T	trans-1,4-Dichloro-2-butene	0.202	0.184	8.9	97	0.00
82 T	4-Chlorotoluene	2.650	2.558	3.5	99	0.00
83 T	tert-Butylbenzene	2.633	2.553	3.0	98	0.00
84 T	1,2,4-Trimethylbenzene	2.989	2.946	1.4	99	0.00
85 T	sec-Butylbenzene	3.961	3.835	3.2	98	0.00
86 T	p-Isopropyltoluene	3.296	3.222	2.2	98	0.00
87 T	1,3-Dichlorobenzene	1.683	1.626	3.4	99	0.00
88 T	1,4-Dichlorobenzene	1.672	1.600	4.3	99	0.00
89 T	n-Butylbenzene	3.101	3.015	2.8	98	0.00
90 T	Hexachloroethane	0.657	0.636	3.2	98	0.00
91 T	1,2-Dichlorobenzene	1.483	1.425	3.9	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.101	0.099	2.0	100	0.00
93 T	1,2,4-Trichlorobenzene	0.838	0.818	2.4	101	0.00
94 T	Hexachlorobutadiene	0.474	0.437	7.8	98	0.00
95 T	Naphthalene	1.515	1.555	-2.6	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022783.D
Acq On : 23 Jun 2025 16:17
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY062325

Quant Time: Jun 24 03:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 03:08:29 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.724	0.702	3.0	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022783.D
 Acq On : 23 Jun 2025 16:17
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY062325

Quant Time: Jun 24 03:36:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 03:08:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	103	-0.01
2 T	Dichlorodifluoromethane	50.000	45.936	8.1	95	0.00
3 P	Chloromethane	50.000	48.905	2.2	104	0.00
4 C	Vinyl Chloride	50.000	49.034	1.9#	99	0.00
5 T	Bromomethane	50.000	48.375	3.3	104	-0.01
6 T	Chloroethane	50.000	48.206	3.6	98	-0.01
7 T	Trichlorofluoromethane	50.000	47.875	4.3	96	-0.01
8 T	Diethyl Ether	50.000	48.097	3.8	97	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.248	5.5	97	-0.01
10 T	Methyl Iodide	50.000	46.847	6.3	87	-0.01
11 T	Tert butyl alcohol	250.000	253.906	-1.6	102	-0.02
12 CM	1,1-Dichloroethene	50.000	47.868	4.3#	97	-0.02
13 T	Acrolein	250.000	206.396	17.4	86	-0.01
14 T	Allyl chloride	50.000	47.825	4.3	96	-0.01
15 T	Acrylonitrile	250.000	248.823	0.5	99	-0.02
16 T	Acetone	250.000	214.694	14.1	98	-0.02
17 T	Carbon Disulfide	50.000	48.003	4.0	97	-0.01
18 T	Methyl Acetate	50.000	50.527	-1.1	104	-0.01
19 T	Methyl tert-butyl Ether	50.000	49.329	1.3	98	-0.02
20 T	Methylene Chloride	50.000	43.635	12.7	101	-0.01
21 T	trans-1,2-Dichloroethene	50.000	48.066	3.9	97	-0.01
22 T	Diisopropyl ether	50.000	48.237	3.5	96	-0.01
23 T	Vinyl Acetate	250.000	247.008	1.2	96	-0.02
24 P	1,1-Dichloroethane	50.000	48.573	2.9	97	-0.01
25 T	2-Butanone	250.000	239.723	4.1	99	-0.01
26 T	2,2-Dichloropropane	50.000	46.171	7.7	94	-0.01
27 T	cis-1,2-Dichloroethene	50.000	47.867	4.3	97	-0.01
28 T	Bromochloromethane	50.000	50.087	-0.2	99	0.00
29 T	Tetrahydrofuran	250.000	252.693	-1.1	99	-0.01
30 C	Chloroform	50.000	48.491	3.0#	98	-0.01
31 T	Cyclohexane	50.000	45.926	8.1	96	-0.01
32 T	1,1,1-Trichloroethane	50.000	48.388	3.2	97	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.109	-0.2	103	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	103	0.00
35 S	Dibromofluoromethane	50.000	50.304	-0.6	103	-0.01
36 T	1,1-Dichloropropene	50.000	47.735	4.5	96	-0.01
37 T	Ethyl Acetate	50.000	49.894	0.2	99	-0.01
38 T	Carbon Tetrachloride	50.000	47.632	4.7	97	0.00
39 T	Methylcyclohexane	50.000	48.226	3.5	96	-0.01
40 TM	Benzene	50.000	48.376	3.2	96	-0.01
41 T	Methacrylonitrile	50.000	53.720	-7.4	113	-0.01
42 TM	1,2-Dichloroethane	50.000	49.108	1.8	98	-0.01
43 T	Isopropyl Acetate	50.000	49.983	0.0	97	0.00
44 TM	Trichloroethene	50.000	47.904	4.2	94	0.00
45 C	1,2-Dichloropropane	50.000	48.510	3.0#	97	0.00
46 T	Dibromomethane	50.000	48.070	3.9	97	0.00
47 T	Bromodichloromethane	50.000	48.872	2.3	98	0.00
48 T	Methyl methacrylate	50.000	51.285	-2.6	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022783.D
 Acq On : 23 Jun 2025 16:17
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY062325

Quant Time: Jun 24 03:36:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 03:08:29 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	983.335	1.7	97	-0.02
50 S	Toluene-d8	50.000	49.755	0.5	101	0.00
51 T	4-Methyl-2-Pentanone	250.000	256.103	-2.4	98	0.00
52 CM	Toluene	50.000	48.894	2.2#	97	0.00
53 T	t-1,3-Dichloropropene	50.000	49.428	1.1	98	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.547	0.9	98	0.00
55 T	1,1,2-Trichloroethane	50.000	49.380	1.2	98	0.00
56 T	Ethyl methacrylate	50.000	51.054	-2.1	97	-0.01
57 T	1,3-Dichloropropane	50.000	49.568	0.9	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	245.249	1.9	102	0.00
59 T	2-Hexanone	250.000	251.999	-0.8	98	0.00
60 T	Dibromochloromethane	50.000	49.955	0.1	98	0.00
61 T	1,2-Dibromoethane	50.000	49.399	1.2	98	0.00
62 S	4-Bromofluorobenzene	50.000	50.342	-0.7	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64 T	Tetrachloroethene	50.000	45.257	9.5	86	0.00
65 PM	Chlorobenzene	50.000	48.095	3.8	98	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	47.973	4.1	96	0.00
67 C	Ethyl Benzene	50.000	49.316	1.4#	98	0.00
68 T	m/p-Xylenes	100.000	98.506	1.5	98	-0.01
69 T	o-Xylene	50.000	49.631	0.7	99	0.00
70 T	Styrene	50.000	49.897	0.2	98	0.00
71 P	Bromoform	50.000	48.380	3.2	98	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	104	0.00
73 T	Isopropylbenzene	50.000	47.581	4.8	97	0.00
74 T	N-amyl acetate	50.000	50.258	-0.5	97	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.808	0.4	109	0.00
76 T	1,2,3-Trichloropropane	50.000	46.775	6.5	98	0.00
77 T	Bromobenzene	50.000	47.796	4.4	98	0.00
78 T	n-propylbenzene	50.000	48.108	3.8	98	0.00
79 T	2-Chlorotoluene	50.000	48.080	3.8	98	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.044	1.9	100	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	45.554	8.9	97	0.00
82 T	4-Chlorotoluene	50.000	48.276	3.4	99	0.00
83 T	tert-Butylbenzene	50.000	48.481	3.0	98	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.278	1.4	99	0.00
85 T	sec-Butylbenzene	50.000	48.405	3.2	98	0.00
86 T	p-Isopropyltoluene	50.000	48.873	2.3	98	0.00
87 T	1,3-Dichlorobenzene	50.000	48.286	3.4	99	0.00
88 T	1,4-Dichlorobenzene	50.000	47.844	4.3	99	0.00
89 T	n-Butylbenzene	50.000	48.623	2.8	98	0.00
90 T	Hexachloroethane	50.000	48.434	3.1	98	0.00
91 T	1,2-Dichlorobenzene	50.000	48.036	3.9	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.145	1.7	100	0.00
93 T	1,2,4-Trichlorobenzene	50.000	48.842	2.3	101	0.00
94 T	Hexachlorobutadiene	50.000	46.178	7.6	98	0.00
95 T	Naphthalene	50.000	51.347	-2.7	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022783.D
Acq On : 23 Jun 2025 16:17
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY062325

Quant Time: Jun 24 03:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 03:08:29 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.503	3.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>07/03/2025 08:19</u>
Lab File ID:	<u>VX046869.D</u>	Init. Calib. Date(s):	<u>07/02/2025 07/02/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:11 14:31</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.478	0.537		12.34	20
Chloromethane	0.522	0.558	0.1	6.9	20
Vinyl Chloride	0.569	0.604		6.15	20
Bromomethane	0.366	0.389		6.28	20
Chloroethane	0.376	0.375		-0.27	20
Trichlorofluoromethane	0.880	0.928		5.45	20
1,1,2-Trichlorotrifluoroethane	0.561	0.587		4.64	20
1,1-Dichloroethene	0.542	0.555		2.4	20
Acetone	0.205	0.211		2.93	20
Carbon Disulfide	1.422	1.427		0.35	20
Methyl tert-butyl Ether	1.531	1.544		0.85	20
Methyl Acetate	0.541	0.539		-0.37	20
Methylene Chloride	0.607	0.613		0.99	20
trans-1,2-Dichloroethene	0.555	0.565		1.8	20
1,1-Dichloroethane	1.064	1.066	0.1	0.19	20
Cyclohexane	0.944	0.920		-2.54	20
2-Butanone	0.274	0.255		-6.93	20
Carbon Tetrachloride	0.484	0.485		0.21	20
cis-1,2-Dichloroethene	0.677	0.672		-0.74	20
Bromochloromethane	0.525	0.520		-0.95	20
Chloroform	1.087	1.054		-3.04	20
1,1,1-Trichloroethane	0.908	0.890		-1.98	20
Methylcyclohexane	0.573	0.568		-0.87	20
Benzene	1.385	1.373		-0.87	20
1,2-Dichloroethane	0.470	0.464		-1.28	20
Trichloroethene	0.361	0.350		-3.05	20
1,2-Dichloropropane	0.350	0.343		-2	20
Bromodichloromethane	0.518	0.510		-1.54	20
4-Methyl-2-Pentanone	0.353	0.332		-5.95	20
Toluene	0.858	0.841		-1.98	20
t-1,3-Dichloropropene	0.462	0.460		-0.43	20
cis-1,3-Dichloropropene	0.527	0.530		0.57	20
1,1,2-Trichloroethane	0.320	0.308		-3.75	20
2-Hexanone	0.234	0.224		-4.27	20
Dibromochloromethane	0.383	0.374		-2.35	20
1,2-Dibromoethane	0.321	0.309		-3.74	20
Tetrachloroethene	0.333	0.324		-2.7	20
Chlorobenzene	1.081	1.046	0.3	-3.24	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>07/03/2025 08:19</u>
Lab File ID:	<u>VX046869.D</u>	Init. Calib. Date(s):	<u>07/02/2025 07/02/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:11 14:31</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.835		-0.86	20
m/p-Xylenes	0.698	0.690		-1.15	20
o-Xylene	0.674	0.666		-1.19	20
Styrene	1.153	1.148		-0.43	20
Bromoform	0.270	0.264	0.1	-2.22	20
Isopropylbenzene	3.515	3.558		1.22	20
1,1,2,2-Tetrachloroethane	0.966	0.901	0.3	-6.73	20
1,3-Dichlorobenzene	1.637	1.599		-2.32	20
1,4-Dichlorobenzene	1.704	1.592		-6.57	20
1,2-Dichlorobenzene	1.587	1.508		-4.98	20
1,2-Dibromo-3-Chloropropane	0.169	0.156		-7.69	20
1,2,4-Trichlorobenzene	1.078	1.054		-2.23	20
1,2,3-Trichlorobenzene	1.019	0.991		-2.75	20
1,2-Dichloroethane-d4	0.661	0.644		-2.57	20
Dibromofluoromethane	0.339	0.351		3.54	20
Toluene-d8	1.197	1.191		-0.5	20
4-Bromofluorobenzene	0.455	0.447		-1.76	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046869.D
 Acq On : 03 Jul 2025 08:19
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/07/2025
 Supervised By : Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:22:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	416385	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	663948	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	582621	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	287854	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	268159	48.749	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	97.500%		
35) Dibromofluoromethane	5.391	113	233072	51.715	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.420%		
50) Toluene-d8	8.647	98	790622	49.721	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.440%		
62) 4-Bromofluorobenzene	11.079	95	297077	49.157	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.320%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	223770	56.194	ug/l	98
3) Chloromethane	1.307	50	232406	53.418	ug/l	97
4) Vinyl Chloride	1.386	62	251664	53.117	ug/l	97
5) Bromomethane	1.624	94	161842	53.164	ug/l	98
6) Chloroethane	1.703	64	156188	49.924	ug/l	98
7) Trichlorofluoromethane	1.904	101	386398	52.745	ug/l	98
8) Diethyl Ether	2.142	74	134606	51.632	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.343	101	244471	52.371	ug/l	99
10) Methyl Iodide	2.465	142	268151	52.727	ug/l	99
11) Tert butyl alcohol	2.947	59	80926	224.312	ug/l	100
12) 1,1-Dichloroethene	2.337	96	230895	51.138	ug/l	97
13) Acrolein	2.246	56	107635	269.765	ug/l	100
14) Allyl chloride	2.678	41	407774	50.727	ug/l	99
15) Acrylonitrile	3.069	53	506424	242.788	ug/l	99
16) Acetone	2.380	43	438299	256.513	ug/l	97
17) Carbon Disulfide	2.526	76	594052	50.169	ug/l	99
18) Methyl Acetate	2.709	43	224225	49.787	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	643059	50.434	ug/l	98
20) Methylene Chloride	2.800	84	255314	50.531	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	235323	50.934	ug/l	98
22) Diisopropyl ether	3.764	45	800256	51.529	ug/l	97
23) Vinyl Acetate	3.727	43	2938553	252.563	ug/l	100
24) 1,1-Dichloroethane	3.617	63	443818	50.109	ug/l	98
25) 2-Butanone	4.556	43	531674	233.222	ug/l	99
26) 2,2-Dichloropropane	4.483	77	328171	49.785	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	279872	49.615	ug/l	99
28) Bromochloromethane	4.904	49	216349	49.494	ug/l	99
29) Tetrahydrofuran	5.007	42	338924	233.223	ug/l	99
30) Chloroform	5.099	83	438996	48.515	ug/l	99
31) Cyclohexane	5.477	56	382912	48.698	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	370625	49.025	ug/l	99
36) 1,1-Dichloropropene	5.696	75	298025	49.011	ug/l	99
37) Ethyl Acetate	4.715	43	228731	44.164	ug/l	99
38) Carbon Tetrachloride	5.684	117	322149	50.111	ug/l	99
39) Methylcyclohexane	7.379	83	377242	49.595	ug/l	98
40) Benzene	6.044	78	911859	49.578	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046869.D
 Acq On : 03 Jul 2025 08:19
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/07/2025
 Supervised By : Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:22:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	146617	53.069	ug/l	97
42) 1,2-Dichloroethane	6.092	62	307803	49.285	ug/l	99
43) Isopropyl Acetate	6.336	43	391699	49.377	ug/l	99
44) Trichloroethene	7.123	130	232324	48.525	ug/l	100
45) 1,2-Dichloropropane	7.428	63	227723	49.006	ug/l	97
46) Dibromomethane	7.580	93	154969	48.133	ug/l	98
47) Bromodichloromethane	7.818	83	338904	49.297	ug/l	97
48) Methyl methacrylate	7.690	41	203191	49.606	ug/l	99
49) 1,4-Dioxane	7.659	88	46162	972.626	ug/l	98
51) 4-Methyl-2-Pentanone	8.568	43	1101047	235.179	ug/l	100
52) Toluene	8.714	92	558370	48.992	ug/l	97
53) t-1,3-Dichloropropene	8.976	75	305488	49.792	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	351836	50.240	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	204472	48.166	ug/l	98
56) Ethyl methacrylate	9.110	69	287813	48.984	ug/l	99
57) 1,3-Dichloropropane	9.305	76	351147	48.038	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	861768	260.305	ug/l	100
59) 2-Hexanone	9.427	43	744805	239.843	ug/l	99
60) Dibromochloromethane	9.519	129	248143	48.844	ug/l	98
61) 1,2-Dibromoethane	9.604	107	205122	48.112	ug/l	100
64) Tetrachloroethene	9.269	164	188971	48.715	ug/l	93
65) Chlorobenzene	10.073	112	609150	48.359	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	210490	49.708	ug/l	100
67) Ethyl Benzene	10.189	91	1069097	49.560	ug/l	100
68) m/p-Xylenes	10.299	106	804090	98.920	ug/l	100
69) o-Xylene	10.640	106	387802	49.389	ug/l	98
70) Styrene	10.653	104	668591	49.769	ug/l	99
71) Bromoform	10.793	173	153922	48.887	ug/l #	100
73) Isopropylbenzene	10.957	105	1024195	50.614	ug/l	100
74) N-amyl acetate	10.842	43	335560	48.800	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	259488	46.635	ug/l	100
76) 1,2,3-Trichloropropane	11.232	75	216945m	48.776	ug/l	
77) Bromobenzene	11.195	156	247421	49.088	ug/l	99
78) n-propylbenzene	11.299	91	1212749	49.703	ug/l	100
79) 2-Chlorotoluene	11.360	91	700526	48.623	ug/l	99
80) 1,3,5-Trimethylbenzene	11.445	105	825975	50.235	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.012	75	79854	48.179	ug/l #	95
82) 4-Chlorotoluene	11.451	91	824470	49.590	ug/l	100
83) tert-Butylbenzene	11.713	119	855537	50.379	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	835526	50.275	ug/l	97
85) sec-Butylbenzene	11.884	105	1061754	49.589	ug/l	100
86) p-Isopropyltoluene	12.006	119	892126	49.756	ug/l	100
87) 1,3-Dichlorobenzene	11.963	146	460220	48.822	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	458294	46.714	ug/l	99
89) n-Butylbenzene	12.329	91	834911	49.557	ug/l	100
90) Hexachloroethane	12.536	117	157858	49.664	ug/l	100
91) 1,2-Dichlorobenzene	12.329	146	434008	47.511	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	44929	46.166	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	303352	48.882	ug/l	100
94) Hexachlorobutadiene	13.719	225	115868	49.508	ug/l	99
95) Naphthalene	13.774	128	814689	49.820	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	285145	48.629	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046869.D
Acq On : 03 Jul 2025 08:19
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:22:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

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

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

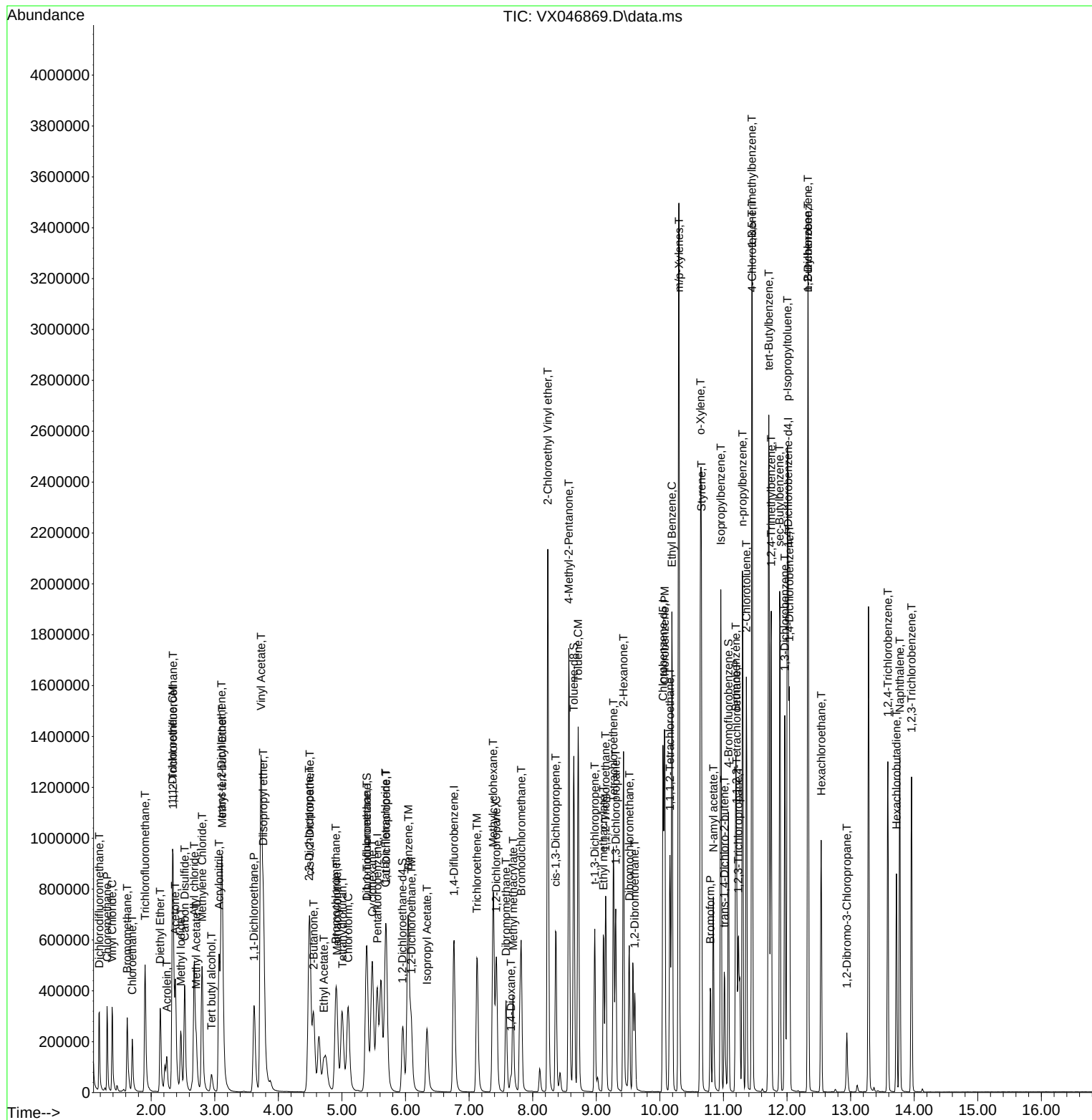
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046869.D
Acq On : 03 Jul 2025 08:19
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :John Carlone 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:22:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046869.D
 Acq On : 03 Jul 2025 08:19
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 04 01:22:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	113	0.00
2 T	Dichlorodifluoromethane	0.478	0.537	-12.3	125	0.00
3 P	Chloromethane	0.522	0.558	-6.9	124	0.00
4 C	Vinyl Chloride	0.569	0.604	-6.2#	124	0.00
5 T	Bromomethane	0.366	0.389	-6.3	122	0.00
6 T	Chloroethane	0.376	0.375	0.3	122	0.00
7 T	Trichlorofluoromethane	0.880	0.928	-5.5	122	0.00
8 T	Diethyl Ether	0.313	0.323	-3.2	120	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.561	0.587	-4.6	121	0.00
10 T	Methyl Iodide	0.611	0.644	-5.4	115	0.00
11 T	Tert butyl alcohol	0.043	0.039	9.3	104	0.00
12 CM	1,1-Dichloroethene	0.542	0.555	-2.4#	120	0.00
13 T	Acrolein	0.052	0.052	0.0	128	0.00
14 T	Allyl chloride	0.965	0.979	-1.5	117	0.00
15 T	Acrylonitrile	0.250	0.243	2.8	112	0.00
16 T	Acetone	0.205	0.211	-2.9	123	0.00
17 T	Carbon Disulfide	1.422	1.427	-0.4	120	0.00
18 T	Methyl Acetate	0.541	0.539	0.4	110	0.00
19 T	Methyl tert-butyl Ether	1.531	1.544	-0.8	114	0.00
20 T	Methylene Chloride	0.607	0.613	-1.0	119	0.00
21 T	trans-1,2-Dichloroethene	0.555	0.565	-1.8	118	0.00
22 T	Diisopropyl ether	1.865	1.922	-3.1	114	0.00
23 T	Vinyl Acetate	1.397	1.411	-1.0	112	0.00
24 P	1,1-Dichloroethane	1.064	1.066	-0.2	116	0.00
25 T	2-Butanone	0.274	0.255	6.9	105	0.00
26 T	2,2-Dichloropropane	0.792	0.788	0.5	117	0.00
27 T	cis-1,2-Dichloroethene	0.677	0.672	0.7	115	0.00
28 T	Bromochloromethane	0.525	0.520	1.0	111	0.00
29 T	Tetrahydrofuran	0.175	0.163	6.9	105	0.00
30 C	Chloroform	1.087	1.054	3.0#	114	0.00
31 T	Cyclohexane	0.944	0.920	2.5	113	0.00
32 T	1,1,1-Trichloroethane	0.908	0.890	2.0	114	0.00
33 S	1,2-Dichloroethane-d4	0.661	0.644	2.6	113	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	110	0.00
35 S	Dibromofluoromethane	0.339	0.351	-3.5	114	0.00
36 T	1,1-Dichloropropene	0.458	0.449	2.0	113	0.00
37 T	Ethyl Acetate	0.390	0.345	11.5	106	0.00
38 T	Carbon Tetrachloride	0.484	0.485	-0.2	113	0.00
39 T	Methylcyclohexane	0.573	0.568	0.9	111	0.00
40 TM	Benzene	1.385	1.373	0.9	112	0.00
41 T	Methacrylonitrile	0.208	0.221	-6.3	115	0.00
42 TM	1,2-Dichloroethane	0.470	0.464	1.3	111	0.00
43 T	Isopropyl Acetate	0.597	0.590	1.2	105	0.00
44 TM	Trichloroethene	0.361	0.350	3.0	112	0.00
45 C	1,2-Dichloropropane	0.350	0.343	2.0#	110	0.00
46 T	Dibromomethane	0.242	0.233	3.7	108	0.00
47 T	Bromodichloromethane	0.518	0.510	1.5	111	0.00
48 T	Methyl methacrylate	0.308	0.306	0.6	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046869.D
 Acq On : 03 Jul 2025 08:19
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 04 01:22:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.004	0.003	25.0	106	0.00
50 S	Toluene-d8	1.197	1.191	0.5	110	0.00
51 T	4-Methyl-2-Pentanone	0.353	0.332	5.9	100	0.00
52 CM	Toluene	0.858	0.841	2.0#	110	0.00
53 T	t-1,3-Dichloropropene	0.462	0.460	0.4	108	0.00
54 T	cis-1,3-Dichloropropene	0.527	0.530	-0.6	110	0.00
55 T	1,1,2-Trichloroethane	0.320	0.308	3.8	107	0.00
56 T	Ethyl methacrylate	0.442	0.433	2.0	104	0.00
57 T	1,3-Dichloropropane	0.550	0.529	3.8	108	0.00
58 T	2-Chloroethyl Vinyl ether	0.249	0.260	-4.4	107	0.00
59 T	2-Hexanone	0.234	0.224	4.3	100	0.00
60 T	Dibromochloromethane	0.383	0.374	2.3	110	0.00
61 T	1,2-Dibromoethane	0.321	0.309	3.7	107	0.00
62 S	4-Bromofluorobenzene	0.455	0.447	1.8	109	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00
64 T	Tetrachloroethene	0.333	0.324	2.7	111	0.00
65 PM	Chlorobenzene	1.081	1.046	3.2	108	0.00
66 T	1,1,1,2-Tetrachloroethane	0.363	0.361	0.6	109	0.00
67 C	Ethyl Benzene	1.851	1.835	0.9#	108	0.00
68 T	m/p-Xylenes	0.698	0.690	1.1	108	0.00
69 T	o-Xylene	0.674	0.666	1.2	108	0.00
70 T	Styrene	1.153	1.148	0.4	105	0.00
71 P	Bromoform	0.270	0.264	2.2	106	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
73 T	Isopropylbenzene	3.515	3.558	-1.2	107	0.00
74 T	N-amyl acetate	1.194	1.166	2.3	99	0.00
75 P	1,1,2,2-Tetrachloroethane	0.966	0.901	6.7	101	0.00
76 T	1,2,3-Trichloropropane	0.773	0.754	2.5	103	0.00
77 T	Bromobenzene	0.875	0.860	1.7	106	0.00
78 T	n-propylbenzene	4.238	4.213	0.6	106	0.00
79 T	2-Chlorotoluene	2.503	2.434	2.8	106	0.00
80 T	1,3,5-Trimethylbenzene	2.856	2.869	-0.5	106	0.00
81 T	trans-1,4-Dichloro-2-butene	0.288	0.277	3.8	103	0.00
82 T	4-Chlorotoluene	2.888	2.864	0.8	106	0.00
83 T	tert-Butylbenzene	2.950	2.972	-0.7	106	0.00
84 T	1,2,4-Trimethylbenzene	2.887	2.903	-0.6	106	0.00
85 T	sec-Butylbenzene	3.719	3.689	0.8	105	0.00
86 T	p-Isopropyltoluene	3.114	3.099	0.5	106	0.00
87 T	1,3-Dichlorobenzene	1.637	1.599	2.3	106	0.00
88 T	1,4-Dichlorobenzene	1.704	1.592	6.6	105	0.00
89 T	n-Butylbenzene	2.926	2.900	0.9	105	0.00
90 T	Hexachloroethane	0.552	0.548	0.7	107	0.00
91 T	1,2-Dichlorobenzene	1.587	1.508	5.0	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.169	0.156	7.7	99	0.00
93 T	1,2,4-Trichlorobenzene	1.078	1.054	2.2	105	0.00
94 T	Hexachlorobutadiene	0.407	0.403	1.0	106	0.00
95 T	Naphthalene	2.840	2.830	0.4	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046869.D
Acq On : 03 Jul 2025 08:19
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jul 04 01:22:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.019	0.991	2.7	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046869.D
 Acq On : 03 Jul 2025 08:19
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 04 01:22:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	113	0.00
2 T	Dichlorodifluoromethane	50.000	56.194	-12.4	125	0.00
3 P	Chloromethane	50.000	53.418	-6.8	124	0.00
4 C	Vinyl Chloride	50.000	53.117	-6.2#	124	0.00
5 T	Bromomethane	50.000	53.164	-6.3	122	0.00
6 T	Chloroethane	50.000	49.924	0.2	122	0.00
7 T	Trichlorofluoromethane	50.000	52.745	-5.5	122	0.00
8 T	Diethyl Ether	50.000	51.632	-3.3	120	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	52.371	-4.7	121	0.00
10 T	Methyl Iodide	50.000	52.727	-5.5	115	0.00
11 T	Tert butyl alcohol	250.000	224.312	10.3	104	0.00
12 CM	1,1-Dichloroethene	50.000	51.138	-2.3#	120	0.00
13 T	Acrolein	250.000	269.765	-7.9	128	0.00
14 T	Allyl chloride	50.000	50.727	-1.5	117	0.00
15 T	Acrylonitrile	250.000	242.788	2.9	112	0.00
16 T	Acetone	250.000	256.513	-2.6	123	0.00
17 T	Carbon Disulfide	50.000	50.169	-0.3	120	0.00
18 T	Methyl Acetate	50.000	49.787	0.4	110	0.00
19 T	Methyl tert-butyl Ether	50.000	50.434	-0.9	114	0.00
20 T	Methylene Chloride	50.000	50.531	-1.1	119	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.934	-1.9	118	0.00
22 T	Diisopropyl ether	50.000	51.529	-3.1	114	0.00
23 T	Vinyl Acetate	250.000	252.563	-1.0	112	0.00
24 P	1,1-Dichloroethane	50.000	50.109	-0.2	116	0.00
25 T	2-Butanone	250.000	233.222	6.7	105	0.00
26 T	2,2-Dichloropropane	50.000	49.785	0.4	117	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.615	0.8	115	0.00
28 T	Bromochloromethane	50.000	49.494	1.0	111	0.00
29 T	Tetrahydrofuran	250.000	233.223	6.7	105	0.00
30 C	Chloroform	50.000	48.515	3.0#	114	0.00
31 T	Cyclohexane	50.000	48.698	2.6	113	0.00
32 T	1,1,1-Trichloroethane	50.000	49.025	2.0	114	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.749	2.5	113	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	110	0.00
35 S	Dibromofluoromethane	50.000	51.715	-3.4	114	0.00
36 T	1,1-Dichloropropene	50.000	49.011	2.0	113	0.00
37 T	Ethyl Acetate	50.000	44.164	11.7	106	0.00
38 T	Carbon Tetrachloride	50.000	50.111	-0.2	113	0.00
39 T	Methylcyclohexane	50.000	49.595	0.8	111	0.00
40 TM	Benzene	50.000	49.578	0.8	112	0.00
41 T	Methacrylonitrile	50.000	53.069	-6.1	115	0.00
42 TM	1,2-Dichloroethane	50.000	49.285	1.4	111	0.00
43 T	Isopropyl Acetate	50.000	49.377	1.2	105	0.00
44 TM	Trichloroethene	50.000	48.525	3.0	112	0.00
45 C	1,2-Dichloropropane	50.000	49.006	2.0#	110	0.00
46 T	Dibromomethane	50.000	48.133	3.7	108	0.00
47 T	Bromodichloromethane	50.000	49.297	1.4	111	0.00
48 T	Methyl methacrylate	50.000	49.606	0.8	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046869.D
 Acq On : 03 Jul 2025 08:19
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 04 01:22:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	972.626	2.7	106	0.00
50 S	Toluene-d8	50.000	49.721	0.6	110	0.00
51 T	4-Methyl-2-Pentanone	250.000	235.179	5.9	100	0.00
52 CM	Toluene	50.000	48.992	2.0#	110	0.00
53 T	t-1,3-Dichloropropene	50.000	49.792	0.4	108	0.00
54 T	cis-1,3-Dichloropropene	50.000	50.240	-0.5	110	0.00
55 T	1,1,2-Trichloroethane	50.000	48.166	3.7	107	0.00
56 T	Ethyl methacrylate	50.000	48.984	2.0	104	0.00
57 T	1,3-Dichloropropane	50.000	48.038	3.9	108	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	260.305	-4.1	107	0.00
59 T	2-Hexanone	250.000	239.843	4.1	100	0.00
60 T	Dibromochloromethane	50.000	48.844	2.3	110	0.00
61 T	1,2-Dibromoethane	50.000	48.112	3.8	107	0.00
62 S	4-Bromofluorobenzene	50.000	49.157	1.7	109	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	108	0.00
64 T	Tetrachloroethene	50.000	48.715	2.6	111	0.00
65 PM	Chlorobenzene	50.000	48.359	3.3	108	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.708	0.6	109	0.00
67 C	Ethyl Benzene	50.000	49.560	0.9#	108	0.00
68 T	m/p-Xylenes	100.000	98.920	1.1	108	0.00
69 T	o-Xylene	50.000	49.389	1.2	108	0.00
70 T	Styrene	50.000	49.769	0.5	105	0.00
71 P	Bromoform	50.000	48.887	2.2	106	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	108	0.00
73 T	Isopropylbenzene	50.000	50.614	-1.2	107	0.00
74 T	N-amyl acetate	50.000	48.800	2.4	99	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	46.635	6.7	101	0.00
76 T	1,2,3-Trichloropropane	50.000	48.776	2.4	103	0.00
77 T	Bromobenzene	50.000	49.088	1.8	106	0.00
78 T	n-propylbenzene	50.000	49.703	0.6	106	0.00
79 T	2-Chlorotoluene	50.000	48.623	2.8	106	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.235	-0.5	106	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	48.179	3.6	103	0.00
82 T	4-Chlorotoluene	50.000	49.590	0.8	106	0.00
83 T	tert-Butylbenzene	50.000	50.379	-0.8	106	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.275	-0.5	106	0.00
85 T	sec-Butylbenzene	50.000	49.589	0.8	105	0.00
86 T	p-Isopropyltoluene	50.000	49.756	0.5	106	0.00
87 T	1,3-Dichlorobenzene	50.000	48.822	2.4	106	0.00
88 T	1,4-Dichlorobenzene	50.000	46.714	6.6	105	0.00
89 T	n-Butylbenzene	50.000	49.557	0.9	105	0.00
90 T	Hexachloroethane	50.000	49.664	0.7	107	0.00
91 T	1,2-Dichlorobenzene	50.000	47.511	5.0	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.166	7.7	99	0.00
93 T	1,2,4-Trichlorobenzene	50.000	48.882	2.2	105	0.00
94 T	Hexachlorobutadiene	50.000	49.508	1.0	106	0.00
95 T	Naphthalene	50.000	49.820	0.4	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046869.D
Acq On : 03 Jul 2025 08:19
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jul 04 01:22:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.629	2.7	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>06/30/2025 11:03</u>
Lab File ID:	<u>VY022872.D</u>	Init. Calib. Date(s):	<u>06/23/2025 06/23/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>13:38 15:31</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.394		-7.94	20
Chloromethane	0.816	0.771	0.1	-5.51	20
Vinyl Chloride	1.020	0.967		-5.2	20
Bromomethane	0.802	0.735		-8.35	20
Chloroethane	0.686	0.666		-2.91	20
Trichlorofluoromethane	1.129	1.080		-4.34	20
1,1,2-Trichlorotrifluoroethane	0.516	0.554		7.36	20
1,1-Dichloroethene	0.506	0.562		11.07	20
Acetone	0.105	0.124		18.09	20
Carbon Disulfide	1.635	1.820		11.31	20
Methyl tert-butyl Ether	1.378	1.494		8.42	20
Methyl Acetate	0.349	0.300		-14.04	20
Methylene Chloride	0.666	0.725		8.86	20
trans-1,2-Dichloroethene	0.578	0.648		12.11	20
1,1-Dichloroethane	1.044	1.203	0.1	15.23	20
Cyclohexane	0.959	1.049		9.39	20
2-Butanone	0.154	0.166		7.79	20
Carbon Tetrachloride	0.486	0.536		10.29	20
cis-1,2-Dichloroethene	0.672	0.765		13.84	20
Bromochloromethane	0.439	0.448		2.05	20
Chloroform	1.076	1.198		11.44	20
1,1,1-Trichloroethane	0.929	1.028		10.66	20
Methylcyclohexane	0.596	0.679		13.93	20
Benzene	1.417	1.617		14.11	20
1,2-Dichloroethane	0.388	0.429		10.57	20
Trichloroethene	0.356	0.404		13.48	20
1,2-Dichloropropane	0.332	0.380		14.46	20
Bromodichloromethane	0.485	0.546		12.58	20
4-Methyl-2-Pentanone	0.210	0.221		5.24	20
Toluene	0.894	1.029		15.1	20
t-1,3-Dichloropropene	0.437	0.496		13.5	20
cis-1,3-Dichloropropene	0.506	0.585		15.61	20
1,1,2-Trichloroethane	0.244	0.262		7.38	20
2-Hexanone	0.143	0.150		4.89	20
Dibromochloromethane	0.315	0.338		7.3	20
1,2-Dibromoethane	0.228	0.244		7.02	20
Tetrachloroethene	0.472	0.539		14.19	20
Chlorobenzene	1.099	1.262	0.3	14.83	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>06/30/2025 11:03</u>
Lab File ID:	<u>VY022872.D</u>	Init. Calib. Date(s):	<u>06/23/2025 06/23/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>13:38 15:31</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.279		18.08	20
m/p-Xylenes	0.746	0.876		17.43	20
o-Xylene	0.703	0.826		17.5	20
Styrene	1.178	1.368		16.13	20
Bromoform	0.207	0.217	0.1	4.83	20
Isopropylbenzene	3.698	4.437		19.98	20
1,1,2,2-Tetrachloroethane	0.596	0.623	0.3	4.53	20
1,3-Dichlorobenzene	1.683	1.949		15.81	20
1,4-Dichlorobenzene	1.672	1.902		13.76	20
1,2-Dichlorobenzene	1.483	1.663		12.14	20
1,2-Dibromo-3-Chloropropane	0.101	0.098		-2.97	20
1,2,4-Trichlorobenzene	0.838	0.907		8.23	20
1,2,3-Trichlorobenzene	0.724	0.733		1.24	20
1,2-Dichloroethane-d4	0.558	0.541		-3.05	20
Dibromofluoromethane	0.304	0.310		1.97	20
Toluene-d8	1.207	1.238		2.57	20
4-Bromofluorobenzene	0.388	0.386		-0.51	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022872.D
 Acq On : 30 Jun 2025 11:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
 Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:33:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	450935	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	753538	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	651538	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	313014	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	243756	48.433	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.860%		
35) Dibromofluoromethane	7.634	113	233475	50.948	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	101.900%		
50) Toluene-d8	10.103	98	932998	51.307	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	102.620%		
62) 4-Bromofluorobenzene	12.401	95	291027	49.784	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	99.560%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	177749	46.097	ug/l	98
3) Chloromethane	2.068	50	347504	47.196	ug/l	99
4) Vinyl Chloride	2.202	62	435833	47.379	ug/l	99
5) Bromomethane	2.598	94	331517	45.841	ug/l	96
6) Chloroethane	2.732	64	300201	48.549	ug/l	98
7) Trichlorofluoromethane	3.055	101	487199	47.831	ug/l	100
8) Diethyl Ether	3.452	74	137982	54.847	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.811	101	249812	53.667	ug/l	98
10) Methyl Iodide	4.000	142	308595	60.890	ug/l	99
11) Tert butyl alcohol	4.860	59	75627	225.987	ug/l	98
12) 1,1-Dichloroethene	3.787	96	253515	55.543	ug/l	97
13) Acrolein	3.653	56	131156	289.024	ug/l	97
14) Allyl chloride	4.385	41	415192	59.140	ug/l	93
15) Acrylonitrile	5.055	53	280964	267.677	ug/l	99
16) Acetone	3.866	43	278686	292.967	ug/l	97
17) Carbon Disulfide	4.104	76	820572	55.650	ug/l	99
18) Methyl Acetate	4.385	43	135413	42.985	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	673902	54.224	ug/l	99
20) Methylene Chloride	4.610	84	326844	54.407	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	292093	55.994	ug/l	100
22) Diisopropyl ether	6.018	45	915302	58.707	ug/l	94
23) Vinyl Acetate	5.957	43	2512854	291.827	ug/l	100
24) 1,1-Dichloroethane	5.915	63	542541	57.610	ug/l	99
25) 2-Butanone	6.890	43	373524	269.794	ug/l	98
26) 2,2-Dichloropropane	6.884	77	464978	58.901	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	344955	56.908	ug/l	99
28) Bromochloromethane	7.244	49	201848	50.982	ug/l	94
29) Tetrahydrofuran	7.262	42	223570	255.736	ug/l	99
30) Chloroform	7.421	83	540067	55.679	ug/l	94
31) Cyclohexane	7.701	56	472984	54.714	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	463413	55.286	ug/l	98
36) 1,1-Dichloropropene	7.835	75	395697	56.966	ug/l	99
37) Ethyl Acetate	6.982	43	158012	52.716	ug/l	98
38) Carbon Tetrachloride	7.817	117	404250	55.156	ug/l	99
39) Methylcyclohexane	9.109	83	511782	56.934	ug/l	98
40) Benzene	8.079	78	1218805	57.070	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022872.D
 Acq On : 30 Jun 2025 11:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025

Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:33:38 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Quant Title : SW846 8260

QLast Update : Tue Jun 24 08:29:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	100059	54.225	ug/l	89
42) 1,2-Dichloroethane	8.158	62	323015	55.195	ug/l	99
43) Isopropyl Acetate	8.195	43	327734	52.608	ug/l	99
44) Trichloroethene	8.865	130	304616	56.810	ug/l	97
45) 1,2-Dichloropropane	9.140	63	286614	57.342	ug/l	99
46) Dibromomethane	9.231	93	151910	53.538	ug/l	96
47) Bromodichloromethane	9.420	83	411221	56.203	ug/l	99
48) Methyl methacrylate	9.219	41	161343	53.874	ug/l	94
49) 1,4-Dioxane	9.225	88	32035	955.617	ug/l	98
51) 4-Methyl-2-Pentanone	9.999	43	833028	263.135	ug/l	97
52) Toluene	10.170	92	775479	57.557	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	373508	56.737	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	440703	57.736	ug/l	96
55) 1,1,2-Trichloroethane	10.572	97	197476	53.748	ug/l	97
56) Ethyl methacrylate	10.438	69	269183	54.456	ug/l	96
57) 1,3-Dichloropropane	10.713	76	351498	54.834	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	584171	226.425	ug/l	99
59) 2-Hexanone	10.761	43	564964	262.488	ug/l	97
60) Dibromochloromethane	10.908	129	254363	53.598	ug/l	100
61) 1,2-Dibromoethane	11.011	107	184175	53.568	ug/l	97
64) Tetrachloroethene	10.646	164	351422	57.095	ug/l	98
65) Chlorobenzene	11.438	112	822264	57.435	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	271870	56.067	ug/l	99
67) Ethyl Benzene	11.517	91	1484733	59.026	ug/l	100
68) m/p-Xylenes	11.627	106	1141915	117.439	ug/l	99
69) o-Xylene	11.950	106	538230	58.746	ug/l	99
70) Styrene	11.969	104	891455	58.087	ug/l	99
71) Bromoform	12.133	173	141480	52.400	ug/l #	99
73) Isopropylbenzene	12.255	105	1388714	59.989	ug/l	99
74) N-amyl acetate	12.072	43	292603	56.311	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	195128	52.300	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	156817m	49.073	ug/l	
77) Bromobenzene	12.529	156	300835	57.333	ug/l	99
78) n-propylbenzene	12.590	91	1680095	60.112	ug/l	98
79) 2-Chlorotoluene	12.676	91	944654	59.822	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	1121467	60.011	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	69372	54.844	ug/l	99
82) 4-Chlorotoluene	12.773	91	978923	59.018	ug/l	100
83) tert-Butylbenzene	12.993	119	995290	60.390	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1120897	59.909	ug/l	99
85) sec-Butylbenzene	13.176	105	1485102	59.890	ug/l	99
86) p-Isopropyltoluene	13.291	119	1240025	60.092	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	610002	57.885	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	595473	56.885	ug/l	100
89) n-Butylbenzene	13.615	91	1159242	59.722	ug/l	98
90) Hexachloroethane	13.877	117	239625	58.303	ug/l	96
91) 1,2-Dichlorobenzene	13.657	146	520523	56.050	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	30651	48.445	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	283954	54.155	ug/l	97
94) Hexachlorobutadiene	15.023	225	156306	52.716	ug/l	99
95) Naphthalene	15.139	128	478727	50.488	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	229335	50.615	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022872.D
Acq On : 30 Jun 2025 11:03
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

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

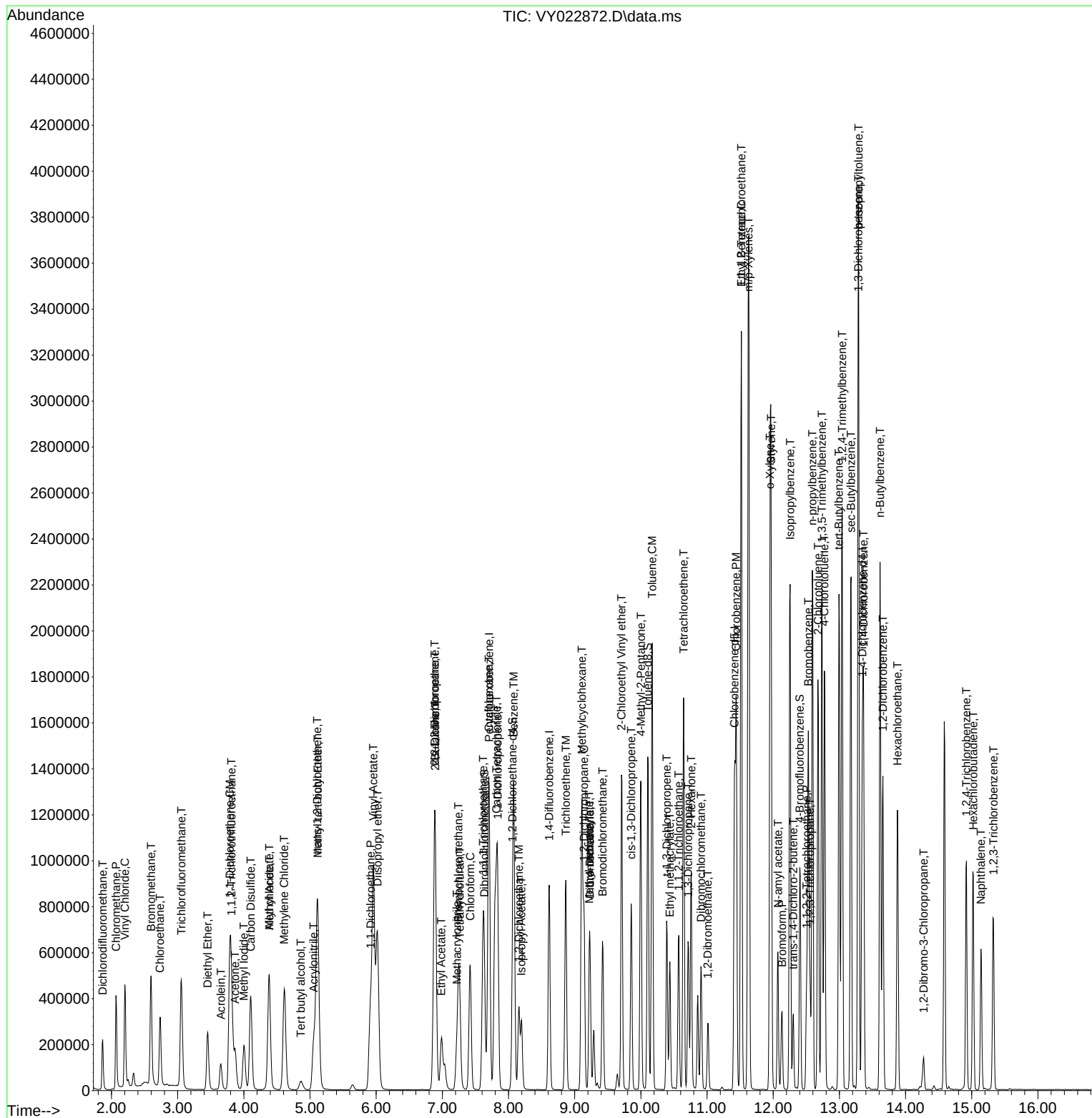
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022872.D
Acq On : 30 Jun 2025 11:03
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022872.D
 Acq On : 30 Jun 2025 11:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 01 03:33:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	0.428	0.394	7.9	90	0.00
3 P	Chloromethane	0.816	0.771	5.5	94	0.00
4 C	Vinyl Chloride	1.020	0.967	5.2#	89	0.00
5 T	Bromomethane	0.802	0.735	8.4	92	0.00
6 T	Chloroethane	0.686	0.666	2.9	93	0.00
7 T	Trichlorofluoromethane	1.129	1.080	4.3	90	0.00
8 T	Diethyl Ether	0.279	0.306	-9.7	104	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.516	0.554	-7.4	104	0.00
10 T	Methyl Iodide	0.562	0.684	-21.7	106	0.00
11 T	Tert butyl alcohol	0.037	0.034	8.1	85	-0.02
12 CM	1,1-Dichloroethene	0.506	0.562	-11.1#	106	-0.01
13 T	Acrolein	0.050	0.058	-16.0	114	0.00
14 T	Allyl chloride	0.778	0.921	-18.4	112	0.00
15 T	Acrylonitrile	0.116	0.125	-7.8	100	-0.01
16 T	Acetone	0.105	0.124	-18.1	125	-0.01
17 T	Carbon Disulfide	1.635	1.820	-11.3	106	0.00
18 T	Methyl Acetate	0.349	0.300	14.0	83	-0.01
19 T	Methyl tert-butyl Ether	1.378	1.494	-8.4	101	-0.01
20 T	Methylene Chloride	0.666	0.725	-8.9	119	-0.01
21 T	trans-1,2-Dichloroethene	0.578	0.648	-12.1	106	-0.01
22 T	Diisopropyl ether	1.729	2.030	-17.4	110	0.00
23 T	Vinyl Acetate	0.955	1.115	-16.8	107	-0.01
24 P	1,1-Dichloroethane	1.044	1.203	-15.2	108	0.00
25 T	2-Butanone	0.154	0.166	-7.8	105	-0.01
26 T	2,2-Dichloropropane	0.875	1.031	-17.8	113	0.00
27 T	cis-1,2-Dichloroethene	0.672	0.765	-13.8	108	-0.01
28 T	Bromochloromethane	0.439	0.448	-2.1	94	0.00
29 T	Tetrahydrofuran	0.097	0.099	-2.1	94	0.00
30 C	Chloroform	1.076	1.198	-11.3#	106	0.00
31 T	Cyclohexane	0.959	1.049	-9.4	107	0.00
32 T	1,1,1-Trichloroethane	0.929	1.028	-10.7	105	0.00
33 S	1,2-Dichloroethane-d4	0.558	0.541	3.0	94	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
35 S	Dibromofluoromethane	0.304	0.310	-2.0	98	0.00
36 T	1,1-Dichloropropene	0.461	0.525	-13.9	107	0.00
37 T	Ethyl Acetate	0.199	0.210	-5.5	98	-0.01
38 T	Carbon Tetrachloride	0.486	0.536	-10.3	105	0.00
39 T	Methylcyclohexane	0.596	0.679	-13.9	105	0.00
40 TM	Benzene	1.417	1.617	-14.1	106	0.00
41 T	Methacrylonitrile	0.122	0.133	-9.0	107	-0.01
42 TM	1,2-Dichloroethane	0.388	0.429	-10.6	103	0.00
43 T	Isopropyl Acetate	0.413	0.435	-5.3	96	0.00
44 TM	Trichloroethene	0.356	0.404	-13.5	104	0.00
45 C	1,2-Dichloropropane	0.332	0.380	-14.5#	108	0.00
46 T	Dibromomethane	0.188	0.202	-7.4	101	0.00
47 T	Bromodichloromethane	0.485	0.546	-12.6	105	0.00
48 T	Methyl methacrylate	0.199	0.214	-7.5	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022872.D
 Acq On : 30 Jun 2025 11:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 01 03:33:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	88	-0.02
50 S	Toluene-d8	1.207	1.238	-2.6	98	0.00
51 T	4-Methyl-2-Pentanone	0.210	0.221	-5.2	94	0.00
52 CM	Toluene	0.894	1.029	-15.1#	107	0.00
53 T	t-1,3-Dichloropropene	0.437	0.496	-13.5	105	0.00
54 T	cis-1,3-Dichloropropene	0.506	0.585	-15.6	107	0.00
55 T	1,1,2-Trichloroethane	0.244	0.262	-7.4	100	0.00
56 T	Ethyl methacrylate	0.328	0.357	-8.8	97	0.00
57 T	1,3-Dichloropropane	0.425	0.466	-9.6	102	0.00
58 T	2-Chloroethyl Vinyl ether	0.145	0.155	-6.9	88	0.00
59 T	2-Hexanone	0.143	0.150	-4.9	95	0.00
60 T	Dibromochloromethane	0.315	0.338	-7.3	99	0.00
61 T	1,2-Dibromoethane	0.228	0.244	-7.0	99	0.00
62 S	4-Bromofluorobenzene	0.388	0.386	0.5	96	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
64 T	Tetrachloroethene	0.472	0.539	-14.2	100	0.00
65 PM	Chlorobenzene	1.099	1.262	-14.8	107	0.00
66 T	1,1,1,2-Tetrachloroethane	0.372	0.417	-12.1	103	0.00
67 C	Ethyl Benzene	1.930	2.279	-18.1#	107	0.00
68 T	m/p-Xylenes	0.746	0.876	-17.4	107	0.00
69 T	o-Xylene	0.703	0.826	-17.5	107	0.00
70 T	Styrene	1.178	1.368	-16.1	105	0.00
71 P	Bromoform	0.207	0.217	-4.8	98	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73 T	Isopropylbenzene	3.698	4.437	-20.0	107	0.00
74 T	N-amyl acetate	0.830	0.935	-12.7	95	0.00
75 P	1,1,2,2-Tetrachloroethane	0.596	0.623	-4.5	100	0.00
76 T	1,2,3-Trichloropropane	0.510	0.501	1.8	89	0.00
77 T	Bromobenzene	0.838	0.961	-14.7	102	0.00
78 T	n-propylbenzene	4.465	5.367	-20.2	107	0.00
79 T	2-Chlorotoluene	2.522	3.018	-19.7	106	0.00
80 T	1,3,5-Trimethylbenzene	2.985	3.583	-20.0	106	0.00
81 T	trans-1,4-Dichloro-2-butene	0.202	0.222	-9.9	101	0.00
82 T	4-Chlorotoluene	2.650	3.127	-18.0	105	0.00
83 T	tert-Butylbenzene	2.633	3.180	-20.8	106	0.00
84 T	1,2,4-Trimethylbenzene	2.989	3.581	-19.8	105	0.00
85 T	sec-Butylbenzene	3.961	4.745	-19.8	105	0.00
86 T	p-Isopropyltoluene	3.296	3.962	-20.2	105	0.00
87 T	1,3-Dichlorobenzene	1.683	1.949	-15.8	104	0.00
88 T	1,4-Dichlorobenzene	1.672	1.902	-13.8	102	0.00
89 T	n-Butylbenzene	3.101	3.703	-19.4	105	0.00
90 T	Hexachloroethane	0.657	0.766	-16.6	103	0.00
91 T	1,2-Dichlorobenzene	1.483	1.663	-12.1	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.101	0.098	3.0	86	0.00
93 T	1,2,4-Trichlorobenzene	0.838	0.907	-8.2	98	0.00
94 T	Hexachlorobutadiene	0.474	0.499	-5.3	98	0.00
95 T	Naphthalene	1.515	1.529	-0.9	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022872.D
Acq On : 30 Jun 2025 11:03
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 01 03:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.724	0.733	-1.2	91	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022872.D
 Acq On : 30 Jun 2025 11:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 01 03:33:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	50.000	46.097	7.8	90	0.00
3 P	Chloromethane	50.000	47.196	5.6	94	0.00
4 C	Vinyl Chloride	50.000	47.379	5.2#	89	0.00
5 T	Bromomethane	50.000	45.841	8.3	92	0.00
6 T	Chloroethane	50.000	48.549	2.9	93	0.00
7 T	Trichlorofluoromethane	50.000	47.831	4.3	90	0.00
8 T	Diethyl Ether	50.000	54.847	-9.7	104	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.667	-7.3	104	0.00
10 T	Methyl Iodide	50.000	60.890	-21.8	106	0.00
11 T	Tert butyl alcohol	250.000	225.987	9.6	85	-0.02
12 CM	1,1-Dichloroethene	50.000	55.543	-11.1#	106	-0.01
13 T	Acrolein	250.000	289.024	-15.6	114	0.00
14 T	Allyl chloride	50.000	59.140	-18.3	112	0.00
15 T	Acrylonitrile	250.000	267.677	-7.1	100	-0.01
16 T	Acetone	250.000	292.967	-17.2	125	-0.01
17 T	Carbon Disulfide	50.000	55.650	-11.3	106	0.00
18 T	Methyl Acetate	50.000	42.985	14.0	83	-0.01
19 T	Methyl tert-butyl Ether	50.000	54.224	-8.4	101	-0.01
20 T	Methylene Chloride	50.000	54.407	-8.8	119	-0.01
21 T	trans-1,2-Dichloroethene	50.000	55.994	-12.0	106	-0.01
22 T	Diisopropyl ether	50.000	58.707	-17.4	110	0.00
23 T	Vinyl Acetate	250.000	291.827	-16.7	107	-0.01
24 P	1,1-Dichloroethane	50.000	57.610	-15.2	108	0.00
25 T	2-Butanone	250.000	269.794	-7.9	105	-0.01
26 T	2,2-Dichloropropane	50.000	58.901	-17.8	113	0.00
27 T	cis-1,2-Dichloroethene	50.000	56.908	-13.8	108	-0.01
28 T	Bromochloromethane	50.000	50.982	-2.0	94	0.00
29 T	Tetrahydrofuran	250.000	255.736	-2.3	94	0.00
30 C	Chloroform	50.000	55.679	-11.4#	106	0.00
31 T	Cyclohexane	50.000	54.714	-9.4	107	0.00
32 T	1,1,1-Trichloroethane	50.000	55.286	-10.6	105	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.433	3.1	94	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	96	0.00
35 S	Dibromofluoromethane	50.000	50.948	-1.9	98	0.00
36 T	1,1-Dichloropropene	50.000	56.966	-13.9	107	0.00
37 T	Ethyl Acetate	50.000	52.716	-5.4	98	-0.01
38 T	Carbon Tetrachloride	50.000	55.156	-10.3	105	0.00
39 T	Methylcyclohexane	50.000	56.934	-13.9	105	0.00
40 TM	Benzene	50.000	57.070	-14.1	106	0.00
41 T	Methacrylonitrile	50.000	54.225	-8.5	107	-0.01
42 TM	1,2-Dichloroethane	50.000	55.195	-10.4	103	0.00
43 T	Isopropyl Acetate	50.000	52.608	-5.2	96	0.00
44 TM	Trichloroethene	50.000	56.810	-13.6	104	0.00
45 C	1,2-Dichloropropane	50.000	57.342	-14.7#	108	0.00
46 T	Dibromomethane	50.000	53.538	-7.1	101	0.00
47 T	Bromodichloromethane	50.000	56.203	-12.4	105	0.00
48 T	Methyl methacrylate	50.000	53.874	-7.7	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022872.D
 Acq On : 30 Jun 2025 11:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 01 03:33:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	955.617	4.4	88	-0.02
50 S	Toluene-d8	50.000	51.307	-2.6	98	0.00
51 T	4-Methyl-2-Pentanone	250.000	263.135	-5.3	94	0.00
52 CM	Toluene	50.000	57.557	-15.1#	107	0.00
53 T	t-1,3-Dichloropropene	50.000	56.737	-13.5	105	0.00
54 T	cis-1,3-Dichloropropene	50.000	57.736	-15.5	107	0.00
55 T	1,1,2-Trichloroethane	50.000	53.748	-7.5	100	0.00
56 T	Ethyl methacrylate	50.000	54.456	-8.9	97	0.00
57 T	1,3-Dichloropropane	50.000	54.834	-9.7	102	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	226.425	9.4	88	0.00
59 T	2-Hexanone	250.000	262.488	-5.0	95	0.00
60 T	Dibromochloromethane	50.000	53.598	-7.2	99	0.00
61 T	1,2-Dibromoethane	50.000	53.568	-7.1	99	0.00
62 S	4-Bromofluorobenzene	50.000	49.784	0.4	96	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	95	0.00
64 T	Tetrachloroethene	50.000	57.095	-14.2	100	0.00
65 PM	Chlorobenzene	50.000	57.435	-14.9	107	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	56.067	-12.1	103	0.00
67 C	Ethyl Benzene	50.000	59.026	-18.1#	107	0.00
68 T	m/p-Xylenes	100.000	117.439	-17.4	107	0.00
69 T	o-Xylene	50.000	58.746	-17.5	107	0.00
70 T	Styrene	50.000	58.087	-16.2	105	0.00
71 P	Bromoform	50.000	52.400	-4.8	98	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73 T	Isopropylbenzene	50.000	59.989	-20.0	107	0.00
74 T	N-amyl acetate	50.000	56.311	-12.6	95	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.300	-4.6	100	0.00
76 T	1,2,3-Trichloropropane	50.000	49.073	1.9	89	0.00
77 T	Bromobenzene	50.000	57.333	-14.7	102	0.00
78 T	n-propylbenzene	50.000	60.112	-20.2	107	0.00
79 T	2-Chlorotoluene	50.000	59.822	-19.6	106	0.00
80 T	1,3,5-Trimethylbenzene	50.000	60.011	-20.0	106	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	54.844	-9.7	101	0.00
82 T	4-Chlorotoluene	50.000	59.018	-18.0	105	0.00
83 T	tert-Butylbenzene	50.000	60.390	-20.8	106	0.00
84 T	1,2,4-Trimethylbenzene	50.000	59.909	-19.8	105	0.00
85 T	sec-Butylbenzene	50.000	59.890	-19.8	105	0.00
86 T	p-Isopropyltoluene	50.000	60.092	-20.2	105	0.00
87 T	1,3-Dichlorobenzene	50.000	57.885	-15.8	104	0.00
88 T	1,4-Dichlorobenzene	50.000	56.885	-13.8	102	0.00
89 T	n-Butylbenzene	50.000	59.722	-19.4	105	0.00
90 T	Hexachloroethane	50.000	58.303	-16.6	103	0.00
91 T	1,2-Dichlorobenzene	50.000	56.050	-12.1	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.445	3.1	86	0.00
93 T	1,2,4-Trichlorobenzene	50.000	54.155	-8.3	98	0.00
94 T	Hexachlorobutadiene	50.000	52.716	-5.4	98	0.00
95 T	Naphthalene	50.000	50.488	-1.0	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022872.D
Acq On : 30 Jun 2025 11:03
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 01 03:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.615	-1.2	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>07/01/2025 10:32</u>
Lab File ID:	<u>VY022891.D</u>	Init. Calib. Date(s):	<u>06/23/2025 06/23/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>13:38 15:31</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.435		1.64	20
Chloromethane	0.816	0.978	0.1	19.85	20
Vinyl Chloride	1.020	1.097		7.55	20
Bromomethane	0.802	0.865		7.86	20
Chloroethane	0.686	0.760		10.79	20
Trichlorofluoromethane	1.129	1.161		2.83	20
1,1,2-Trichlorotrifluoroethane	0.516	0.562		8.91	20
1,1-Dichloroethene	0.506	0.552		9.09	20
Acetone	0.105	0.124		18.09	20
Carbon Disulfide	1.635	1.756		7.4	20
Methyl tert-butyl Ether	1.378	1.513		9.8	20
Methyl Acetate	0.349	0.323		-7.45	20
Methylene Chloride	0.666	0.681		2.25	20
trans-1,2-Dichloroethene	0.578	0.625		8.13	20
1,1-Dichloroethane	1.044	1.172	0.1	12.26	20
Cyclohexane	0.959	1.037		8.13	20
2-Butanone	0.154	0.172		11.69	20
Carbon Tetrachloride	0.486	0.545		12.14	20
cis-1,2-Dichloroethene	0.672	0.744		10.71	20
Bromochloromethane	0.439	0.449		2.28	20
Chloroform	1.076	1.169		8.74	20
1,1,1-Trichloroethane	0.929	1.030		10.87	20
Methylcyclohexane	0.596	0.685		14.93	20
Benzene	1.417	1.588		12.07	20
1,2-Dichloroethane	0.388	0.425		9.54	20
Trichloroethene	0.356	0.384		7.86	20
1,2-Dichloropropane	0.332	0.374		12.65	20
Bromodichloromethane	0.485	0.542		11.75	20
4-Methyl-2-Pentanone	0.210	0.236		12.38	20
Toluene	0.894	1.012		13.2	20
t-1,3-Dichloropropene	0.437	0.505		15.56	20
cis-1,3-Dichloropropene	0.506	0.581		14.82	20
1,1,2-Trichloroethane	0.244	0.264		8.2	20
2-Hexanone	0.143	0.163		13.99	20
Dibromochloromethane	0.315	0.346		9.84	20
1,2-Dibromoethane	0.228	0.245		7.46	20
Tetrachloroethene	0.472	0.476		0.85	20
Chlorobenzene	1.099	1.246	0.3	13.38	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>07/01/2025</u> <u>10:32</u>
Lab File ID:	<u>VY022891.D</u>	Init. Calib. Date(s):	<u>06/23/2025</u> <u>06/23/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>13:38</u> <u>15:31</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.269		17.57	20
m/p-Xylenes	0.746	0.877		17.56	20
o-Xylene	0.703	0.823		17.07	20
Styrene	1.178	1.383		17.4	20
Bromoform	0.207	0.226	0.1	9.18	20
Isopropylbenzene	3.698	4.253		15.01	20
1,1,2,2-Tetrachloroethane	0.596	0.673	0.3	12.92	20
1,3-Dichlorobenzene	1.683	1.900		12.89	20
1,4-Dichlorobenzene	1.672	1.835		9.75	20
1,2-Dichlorobenzene	1.483	1.637		10.38	20
1,2-Dibromo-3-Chloropropane	0.101	0.103		1.98	20
1,2,4-Trichlorobenzene	0.838	0.896		6.92	20
1,2,3-Trichlorobenzene	0.724	0.731		0.97	20
1,2-Dichloroethane-d4	0.558	0.559		0.18	20
Dibromofluoromethane	0.304	0.316		3.95	20
Toluene-d8	1.207	1.257		4.14	20
4-Bromofluorobenzene	0.388	0.412		6.19	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022891.D
 Acq On : 01 Jul 2025 10:32
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/02/2025
 Supervised By :Semsettin Yesilyurt 07/02/2025

Quant Time: Jul 02 02:41:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	433923	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	723740	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	623953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	315665	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	242716	50.117	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.240%			
35) Dibromofluoromethane	7.634	113	228987	52.026	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.060%			
50) Toluene-d8	10.103	98	909677	52.084	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.160%			
62) 4-Bromofluorobenzene	12.401	95	297945	53.066	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.140%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	188731	50.864	ug/l	95
3) Chloromethane	2.068	50	424443	59.905	ug/l	100
4) Vinyl Chloride	2.208	62	475845	53.756	ug/l	100
5) Bromomethane	2.598	94	375326	53.934	ug/l	99
6) Chloroethane	2.738	64	329699	55.410	ug/l	98
7) Trichlorofluoromethane	3.055	101	503992	51.420	ug/l	99
8) Diethyl Ether	3.458	74	133207	55.025	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	243661	54.398	ug/l	97
10) Methyl Iodide	4.007	142	268256	55.006	ug/l	99
11) Tert butyl alcohol	4.878	59	78565	243.971	ug/l #	73
12) 1,1-Dichloroethene	3.793	96	239544	54.539	ug/l	97
13) Acrolein	3.659	56	59342	135.897	ug/l	97
14) Allyl chloride	4.385	41	388175	57.459	ug/l	94
15) Acrylonitrile	5.061	53	273022	270.308	ug/l	99
16) Acetone	3.879	43	269518	294.437	ug/l	96
17) Carbon Disulfide	4.110	76	761834	53.692	ug/l	99
18) Methyl Acetate	4.391	43	139969	46.173	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	656704	54.912	ug/l	100
20) Methylene Chloride	4.616	84	295695	51.151	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	271108	54.009	ug/l	100
22) Diisopropyl ether	6.018	45	864680	57.634	ug/l	98
23) Vinyl Acetate	5.964	43	2418826	291.920	ug/l	99
24) 1,1-Dichloroethane	5.921	63	508724	56.137	ug/l	99
25) 2-Butanone	6.902	43	372472	279.582	ug/l	100
26) 2,2-Dichloropropane	6.884	77	445879	58.696	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	323021	55.379	ug/l	99
28) Bromochloromethane	7.244	49	194998	51.183	ug/l	95
29) Tetrahydrofuran	7.268	42	227624	270.581	ug/l	99
30) Chloroform	7.421	83	507044	54.324	ug/l	96
31) Cyclohexane	7.701	56	449838	54.077	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	446987	55.417	ug/l	99
36) 1,1-Dichloropropene	7.835	75	373288	55.953	ug/l	99
37) Ethyl Acetate	6.988	43	156501	54.362	ug/l	98
38) Carbon Tetrachloride	7.823	117	394298	56.013	ug/l	97
39) Methylcyclohexane	9.109	83	495931	57.442	ug/l	99
40) Benzene	8.079	78	1149332	56.033	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022891.D
 Acq On : 01 Jul 2025 10:32
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/02/2025

Supervised By :Semsettin Yesilyurt 07/02/2025

Quant Time: Jul 02 02:41:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Quant Title : SW846 8260

QLast Update : Tue Jun 24 08:29:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	102083m	57.599	ug/l	
42) 1,2-Dichloroethane	8.158	62	307948	54.787	ug/l	99
43) Isopropyl Acetate	8.201	43	334915	55.974	ug/l	97
44) Trichloroethene	8.865	130	278239	54.028	ug/l	97
45) 1,2-Dichloropropane	9.140	63	270780	56.405	ug/l	98
46) Dibromomethane	9.231	93	145493	53.388	ug/l	96
47) Bromodichloromethane	9.426	83	392078	55.793	ug/l	97
48) Methyl methacrylate	9.219	41	155937	54.212	ug/l	95
49) 1,4-Dioxane	9.237	88	31890	990.459	ug/l	98
51) 4-Methyl-2-Pentanone	9.999	43	852601	280.406	ug/l	96
52) Toluene	10.170	92	732726	56.623	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	365810	57.856	ug/l	95
54) cis-1,3-Dichloropropene	9.853	75	420354	57.337	ug/l	96
55) 1,1,2-Trichloroethane	10.572	97	191290	54.208	ug/l	98
56) Ethyl methacrylate	10.438	69	274119	57.738	ug/l	97
57) 1,3-Dichloropropane	10.719	76	340574	55.317	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	644190	257.649	ug/l	99
59) 2-Hexanone	10.761	43	590302	285.553	ug/l	97
60) Dibromochloromethane	10.908	129	250286	54.910	ug/l	100
61) 1,2-Dibromoethane	11.011	107	177577	53.775	ug/l	97
64) Tetrachloroethene	10.646	164	297003	50.387	ug/l	97
65) Chlorobenzene	11.438	112	777415	56.703	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	260226	56.038	ug/l	99
67) Ethyl Benzene	11.517	91	1415552	58.764	ug/l	98
68) m/p-Xylenes	11.627	106	1094333	117.521	ug/l	100
69) o-Xylene	11.950	106	513781	58.557	ug/l	100
70) Styrene	11.969	104	863151	58.730	ug/l	99
71) Bromoform	12.133	173	140762	54.439	ug/l #	98
73) Isopropylbenzene	12.249	105	1342670	57.513	ug/l	99
74) N-amyl acetate	12.066	43	310947	59.339	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	212401	56.452	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	182917m	56.759	ug/l	
77) Bromobenzene	12.529	156	290824	54.959	ug/l	99
78) n-propylbenzene	12.590	91	1648681	58.492	ug/l	99
79) 2-Chlorotoluene	12.676	91	909020	57.082	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	1100453	58.392	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	72325	56.699	ug/l	98
82) 4-Chlorotoluene	12.773	91	946044	56.557	ug/l	100
83) tert-Butylbenzene	12.993	119	973249	58.557	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1100862	58.344	ug/l	99
85) sec-Butylbenzene	13.170	105	1480916	59.220	ug/l	99
86) p-Isopropyltoluene	13.285	119	1244473	59.801	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	599706	56.430	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	579169	54.863	ug/l	99
89) n-Butylbenzene	13.615	91	1176870	60.121	ug/l	99
90) Hexachloroethane	13.877	117	235640	56.852	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	516734	55.174	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	32570	51.046	ug/l	96
93) 1,2,4-Trichlorobenzene	14.919	180	282885	53.498	ug/l	98
94) Hexachlorobutadiene	15.023	225	156829	52.448	ug/l	99
95) Naphthalene	15.139	128	499754	52.263	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	230647	50.477	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022891.D
Acq On : 01 Jul 2025 10:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/02/2025
Supervised By :Semsettin Yesilyurt 07/02/2025

Quant Time: Jul 02 02:41:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

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

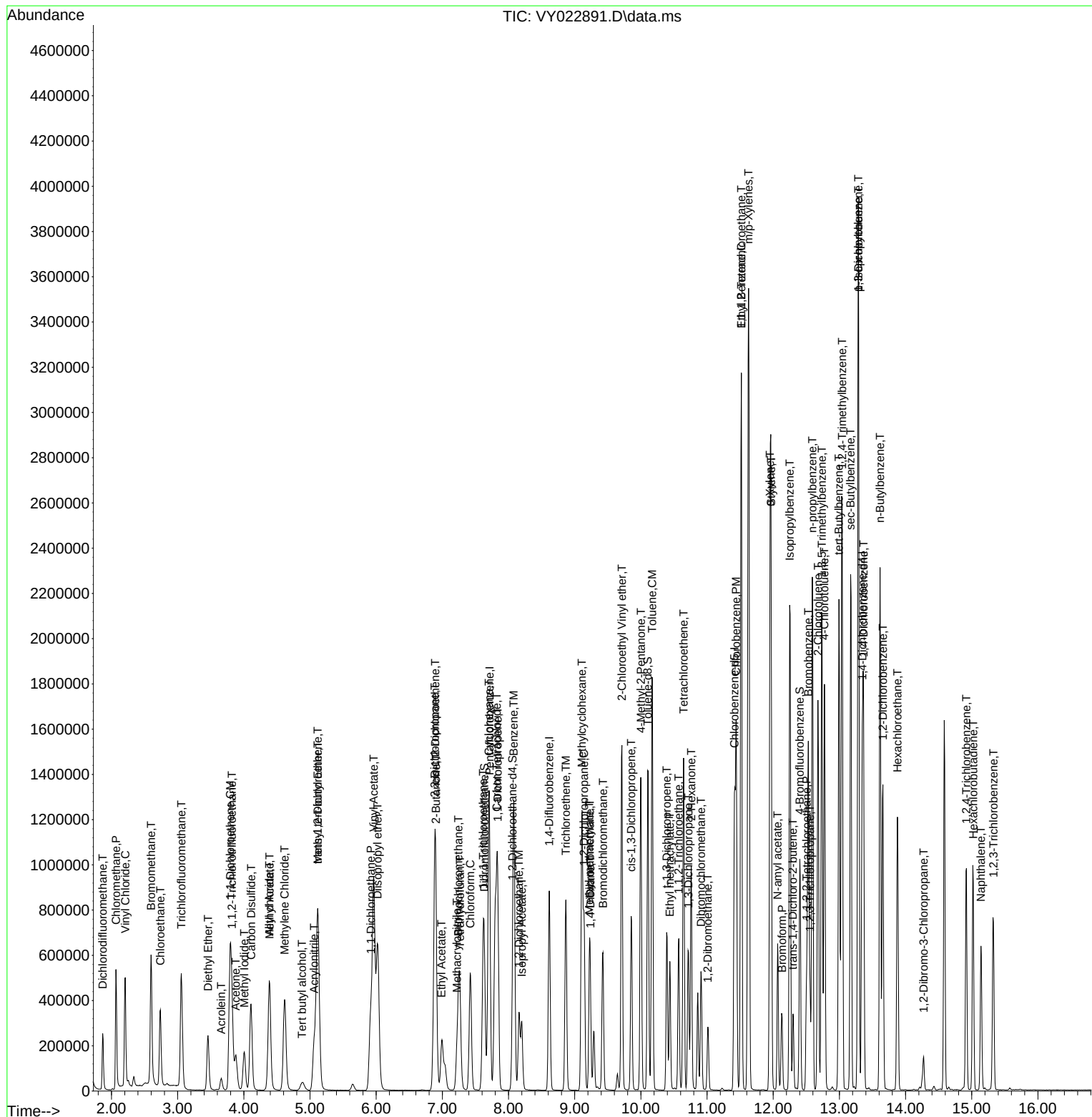
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022891.D
 Acq On : 01 Jul 2025 10:32
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/soil
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 07/02/2025
 Supervised By : Semsettin Yesilyurt 07/02/2025

Quant Time: Jul 02 02:41:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022891.D
 Acq On : 01 Jul 2025 10:32
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 02 02:41:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	0.428	0.435	-1.6	95	0.00
3 P	Chloromethane	0.816	0.978	-19.9	115	0.00
4 C	Vinyl Chloride	1.020	1.097	-7.5#	98	0.00
5 T	Bromomethane	0.802	0.865	-7.9	104	0.00
6 T	Chloroethane	0.686	0.760	-10.8	102	0.00
7 T	Trichlorofluoromethane	1.129	1.161	-2.8	93	0.00
8 T	Diethyl Ether	0.279	0.307	-10.0	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.516	0.562	-8.9	101	0.00
10 T	Methyl Iodide	0.562	0.618	-10.0	92	0.00
11 T	Tert butyl alcohol	0.037	0.036	2.7	88	0.00
12 CM	1,1-Dichloroethene	0.506	0.552	-9.1#	100	0.00
13 T	Acrolein	0.050	0.027	46.0#	51	0.00
14 T	Allyl chloride	0.778	0.895	-15.0	104	0.00
15 T	Acrylonitrile	0.116	0.126	-8.6	97	0.00
16 T	Acetone	0.105	0.124	-18.1	121	0.00
17 T	Carbon Disulfide	1.635	1.756	-7.4	98	0.00
18 T	Methyl Acetate	0.349	0.323	7.4	86	0.00
19 T	Methyl tert-butyl Ether	1.378	1.513	-9.8	98	-0.01
20 T	Methylene Chloride	0.666	0.681	-2.3	107	0.00
21 T	trans-1,2-Dichloroethene	0.578	0.625	-8.1	98	0.00
22 T	Diisopropyl ether	1.729	1.993	-15.3	104	0.00
23 T	Vinyl Acetate	0.955	1.115	-16.8	103	0.00
24 P	1,1-Dichloroethane	1.044	1.172	-12.3	101	0.00
25 T	2-Butanone	0.154	0.172	-11.7	104	0.00
26 T	2,2-Dichloropropane	0.875	1.028	-17.5	108	0.00
27 T	cis-1,2-Dichloroethene	0.672	0.744	-10.7	101	0.00
28 T	Bromochloromethane	0.439	0.449	-2.3	91	0.00
29 T	Tetrahydrofuran	0.097	0.105	-8.2	96	0.00
30 C	Chloroform	1.076	1.169	-8.6#	99	0.00
31 T	Cyclohexane	0.959	1.037	-8.1	102	0.00
32 T	1,1,1-Trichloroethane	0.929	1.030	-10.9	101	0.00
33 S	1,2-Dichloroethane-d4	0.558	0.559	-0.2	93	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35 S	Dibromofluoromethane	0.304	0.316	-3.9	96	0.00
36 T	1,1-Dichloropropene	0.461	0.516	-11.9	101	0.00
37 T	Ethyl Acetate	0.199	0.216	-8.5	97	0.00
38 T	Carbon Tetrachloride	0.486	0.545	-12.1	102	0.00
39 T	Methylcyclohexane	0.596	0.685	-14.9	102	0.00
40 TM	Benzene	1.417	1.588	-12.1	100	0.00
41 T	Methacrylonitrile	0.122	0.141	-15.6	109	-0.01
42 TM	1,2-Dichloroethane	0.388	0.425	-9.5	98	0.00
43 T	Isopropyl Acetate	0.413	0.463	-12.1	98	0.00
44 TM	Trichloroethene	0.356	0.384	-7.9	95	0.00
45 C	1,2-Dichloropropane	0.332	0.374	-12.7#	102	0.00
46 T	Dibromomethane	0.188	0.201	-6.9	97	0.00
47 T	Bromodichloromethane	0.485	0.542	-11.8	100	0.00
48 T	Methyl methacrylate	0.199	0.215	-8.0	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022891.D
 Acq On : 01 Jul 2025 10:32
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 02 02:41:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	88	0.00
50 S	Toluene-d8	1.207	1.257	-4.1	95	0.00
51 T	4-Methyl-2-Pentanone	0.210	0.236	-12.4	96	0.00
52 CM	Toluene	0.894	1.012	-13.2#	101	0.00
53 T	t-1,3-Dichloropropene	0.437	0.505	-15.6	103	0.00
54 T	cis-1,3-Dichloropropene	0.506	0.581	-14.8	102	0.00
55 T	1,1,2-Trichloroethane	0.244	0.264	-8.2	96	0.00
56 T	Ethyl methacrylate	0.328	0.379	-15.5	99	0.00
57 T	1,3-Dichloropropane	0.425	0.471	-10.8	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.145	0.178	-22.8	97	0.00
59 T	2-Hexanone	0.143	0.163	-14.0	99	0.00
60 T	Dibromochloromethane	0.315	0.346	-9.8	97	0.00
61 T	1,2-Dibromoethane	0.228	0.245	-7.5	95	0.00
62 S	4-Bromofluorobenzene	0.388	0.412	-6.2	99	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
64 T	Tetrachloroethene	0.472	0.476	-0.8	84	0.00
65 PM	Chlorobenzene	1.099	1.246	-13.4	101	0.00
66 T	1,1,1,2-Tetrachloroethane	0.372	0.417	-12.1	99	0.00
67 C	Ethyl Benzene	1.930	2.269	-17.6#	102	0.00
68 T	m/p-Xylenes	0.746	0.877	-17.6	103	0.00
69 T	o-Xylene	0.703	0.823	-17.1	103	0.00
70 T	Styrene	1.178	1.383	-17.4	101	0.00
71 P	Bromoform	0.207	0.226	-9.2	97	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
73 T	Isopropylbenzene	3.698	4.253	-15.0	103	0.00
74 T	N-amyl acetate	0.830	0.985	-18.7	101	0.00
75 P	1,1,2,2-Tetrachloroethane	0.596	0.673	-12.9	109	0.00
76 T	1,2,3-Trichloropropane	0.510	0.579	-13.5	104	0.00
77 T	Bromobenzene	0.838	0.921	-9.9	99	0.00
78 T	n-propylbenzene	4.465	5.223	-17.0	105	0.00
79 T	2-Chlorotoluene	2.522	2.880	-14.2	102	0.00
80 T	1,3,5-Trimethylbenzene	2.985	3.486	-16.8	104	0.00
81 T	trans-1,4-Dichloro-2-butene	0.202	0.229	-13.4	106	0.00
82 T	4-Chlorotoluene	2.650	2.997	-13.1	102	0.00
83 T	tert-Butylbenzene	2.633	3.083	-17.1	104	0.00
84 T	1,2,4-Trimethylbenzene	2.989	3.487	-16.7	103	0.00
85 T	sec-Butylbenzene	3.961	4.691	-18.4	105	0.00
86 T	p-Isopropyltoluene	3.296	3.942	-19.6	106	0.00
87 T	1,3-Dichlorobenzene	1.683	1.900	-12.9	102	0.00
88 T	1,4-Dichlorobenzene	1.672	1.835	-9.7	100	0.00
89 T	n-Butylbenzene	3.101	3.728	-20.2	107	0.00
90 T	Hexachloroethane	0.657	0.746	-13.5	102	0.00
91 T	1,2-Dichlorobenzene	1.483	1.637	-10.4	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.101	0.103	-2.0	92	0.00
93 T	1,2,4-Trichlorobenzene	0.838	0.896	-6.9	97	0.00
94 T	Hexachlorobutadiene	0.474	0.497	-4.9	98	0.00
95 T	Naphthalene	1.515	1.583	-4.5	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022891.D
Acq On : 01 Jul 2025 10:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 02 02:41:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.724	0.731	-1.0	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022891.D
 Acq On : 01 Jul 2025 10:32
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 02 02:41:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	50.000	50.864	-1.7	95	0.00
3 P	Chloromethane	50.000	59.905	-19.8	115	0.00
4 C	Vinyl Chloride	50.000	53.756	-7.5#	98	0.00
5 T	Bromomethane	50.000	53.934	-7.9	104	0.00
6 T	Chloroethane	50.000	55.410	-10.8	102	0.00
7 T	Trichlorofluoromethane	50.000	51.420	-2.8	93	0.00
8 T	Diethyl Ether	50.000	55.025	-10.0	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	54.398	-8.8	101	0.00
10 T	Methyl Iodide	50.000	55.006	-10.0	92	0.00
11 T	Tert butyl alcohol	250.000	243.971	2.4	88	0.00
12 CM	1,1-Dichloroethene	50.000	54.539	-9.1#	100	0.00
13 T	Acrolein	250.000	135.897	45.6#	51	0.00
14 T	Allyl chloride	50.000	57.459	-14.9	104	0.00
15 T	Acrylonitrile	250.000	270.308	-8.1	97	0.00
16 T	Acetone	250.000	294.437	-17.8	121	0.00
17 T	Carbon Disulfide	50.000	53.692	-7.4	98	0.00
18 T	Methyl Acetate	50.000	46.173	7.7	86	0.00
19 T	Methyl tert-butyl Ether	50.000	54.912	-9.8	98	-0.01
20 T	Methylene Chloride	50.000	51.151	-2.3	107	0.00
21 T	trans-1,2-Dichloroethene	50.000	54.009	-8.0	98	0.00
22 T	Diisopropyl ether	50.000	57.634	-15.3	104	0.00
23 T	Vinyl Acetate	250.000	291.920	-16.8	103	0.00
24 P	1,1-Dichloroethane	50.000	56.137	-12.3	101	0.00
25 T	2-Butanone	250.000	279.582	-11.8	104	0.00
26 T	2,2-Dichloropropane	50.000	58.696	-17.4	108	0.00
27 T	cis-1,2-Dichloroethene	50.000	55.379	-10.8	101	0.00
28 T	Bromochloromethane	50.000	51.183	-2.4	91	0.00
29 T	Tetrahydrofuran	250.000	270.581	-8.2	96	0.00
30 C	Chloroform	50.000	54.324	-8.6#	99	0.00
31 T	Cyclohexane	50.000	54.077	-8.2	102	0.00
32 T	1,1,1-Trichloroethane	50.000	55.417	-10.8	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.117	-0.2	93	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35 S	Dibromofluoromethane	50.000	52.026	-4.1	96	0.00
36 T	1,1-Dichloropropene	50.000	55.953	-11.9	101	0.00
37 T	Ethyl Acetate	50.000	54.362	-8.7	97	0.00
38 T	Carbon Tetrachloride	50.000	56.013	-12.0	102	0.00
39 T	Methylcyclohexane	50.000	57.442	-14.9	102	0.00
40 TM	Benzene	50.000	56.033	-12.1	100	0.00
41 T	Methacrylonitrile	50.000	57.599	-15.2	109	-0.01
42 TM	1,2-Dichloroethane	50.000	54.787	-9.6	98	0.00
43 T	Isopropyl Acetate	50.000	55.974	-11.9	98	0.00
44 TM	Trichloroethene	50.000	54.028	-8.1	95	0.00
45 C	1,2-Dichloropropane	50.000	56.405	-12.8#	102	0.00
46 T	Dibromomethane	50.000	53.388	-6.8	97	0.00
47 T	Bromodichloromethane	50.000	55.793	-11.6	100	0.00
48 T	Methyl methacrylate	50.000	54.212	-8.4	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022891.D
 Acq On : 01 Jul 2025 10:32
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 02 02:41:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	990.459	1.0	88	0.00
50 S	Toluene-d8	50.000	52.084	-4.2	95	0.00
51 T	4-Methyl-2-Pentanone	250.000	280.406	-12.2	96	0.00
52 CM	Toluene	50.000	56.623	-13.2#	101	0.00
53 T	t-1,3-Dichloropropene	50.000	57.856	-15.7	103	0.00
54 T	cis-1,3-Dichloropropene	50.000	57.337	-14.7	102	0.00
55 T	1,1,2-Trichloroethane	50.000	54.208	-8.4	96	0.00
56 T	Ethyl methacrylate	50.000	57.738	-15.5	99	0.00
57 T	1,3-Dichloropropane	50.000	55.317	-10.6	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	257.649	-3.1	97	0.00
59 T	2-Hexanone	250.000	285.553	-14.2	99	0.00
60 T	Dibromochloromethane	50.000	54.910	-9.8	97	0.00
61 T	1,2-Dibromoethane	50.000	53.775	-7.5	95	0.00
62 S	4-Bromofluorobenzene	50.000	53.066	-6.1	99	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	91	0.00
64 T	Tetrachloroethene	50.000	50.387	-0.8	84	0.00
65 PM	Chlorobenzene	50.000	56.703	-13.4	101	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	56.038	-12.1	99	0.00
67 C	Ethyl Benzene	50.000	58.764	-17.5#	102	0.00
68 T	m/p-Xylenes	100.000	117.521	-17.5	103	0.00
69 T	o-Xylene	50.000	58.557	-17.1	103	0.00
70 T	Styrene	50.000	58.730	-17.5	101	0.00
71 P	Bromoform	50.000	54.439	-8.9	97	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
73 T	Isopropylbenzene	50.000	57.513	-15.0	103	0.00
74 T	N-amyl acetate	50.000	59.339	-18.7	101	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	56.452	-12.9	109	0.00
76 T	1,2,3-Trichloropropane	50.000	56.759	-13.5	104	0.00
77 T	Bromobenzene	50.000	54.959	-9.9	99	0.00
78 T	n-propylbenzene	50.000	58.492	-17.0	105	0.00
79 T	2-Chlorotoluene	50.000	57.082	-14.2	102	0.00
80 T	1,3,5-Trimethylbenzene	50.000	58.392	-16.8	104	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	56.699	-13.4	106	0.00
82 T	4-Chlorotoluene	50.000	56.557	-13.1	102	0.00
83 T	tert-Butylbenzene	50.000	58.557	-17.1	104	0.00
84 T	1,2,4-Trimethylbenzene	50.000	58.344	-16.7	103	0.00
85 T	sec-Butylbenzene	50.000	59.220	-18.4	105	0.00
86 T	p-Isopropyltoluene	50.000	59.801	-19.6	106	0.00
87 T	1,3-Dichlorobenzene	50.000	56.430	-12.9	102	0.00
88 T	1,4-Dichlorobenzene	50.000	54.863	-9.7	100	0.00
89 T	n-Butylbenzene	50.000	60.121	-20.2	107	0.00
90 T	Hexachloroethane	50.000	56.852	-13.7	102	0.00
91 T	1,2-Dichlorobenzene	50.000	55.174	-10.3	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.046	-2.1	92	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.498	-7.0	97	0.00
94 T	Hexachlorobutadiene	50.000	52.448	-4.9	98	0.00
95 T	Naphthalene	50.000	52.263	-4.5	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022891.D
Acq On : 01 Jul 2025 10:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 02 02:41:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.477	-1.0	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>07/02/2025 10:37</u>
Lab File ID:	<u>VY022903.D</u>	Init. Calib. Date(s):	<u>06/23/2025 06/23/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>13:38 15:31</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.411		-3.97	20
Chloromethane	0.816	0.897	0.1	9.93	20
Vinyl Chloride	1.020	1.044		2.35	20
Bromomethane	0.802	0.808		0.75	20
Chloroethane	0.686	0.718		4.66	20
Trichlorofluoromethane	1.129	1.131		0.18	20
1,1,2-Trichlorotrifluoroethane	0.516	0.529		2.52	20
1,1-Dichloroethene	0.506	0.524		3.56	20
Acetone	0.105	0.130		23.81	20
Carbon Disulfide	1.635	1.666		1.9	20
Methyl tert-butyl Ether	1.378	1.459		5.88	20
Methyl Acetate	0.349	0.342		-2.01	20
Methylene Chloride	0.666	0.654		-1.8	20
trans-1,2-Dichloroethene	0.578	0.601		3.98	20
1,1-Dichloroethane	1.044	1.127	0.1	7.95	20
Cyclohexane	0.959	1.013		5.63	20
2-Butanone	0.154	0.175		13.64	20
Carbon Tetrachloride	0.486	0.518		6.58	20
cis-1,2-Dichloroethene	0.672	0.696		3.57	20
Bromochloromethane	0.439	0.455		3.64	20
Chloroform	1.076	1.121		4.28	20
1,1,1-Trichloroethane	0.929	0.989		6.46	20
Methylcyclohexane	0.596	0.656		10.07	20
Benzene	1.417	1.521		7.34	20
1,2-Dichloroethane	0.388	0.415		6.96	20
Trichloroethene	0.356	0.379		6.46	20
1,2-Dichloropropane	0.332	0.363		9.34	20
Bromodichloromethane	0.485	0.513		5.77	20
4-Methyl-2-Pentanone	0.210	0.238		13.33	20
Toluene	0.894	0.967		8.17	20
t-1,3-Dichloropropene	0.437	0.480		9.84	20
cis-1,3-Dichloropropene	0.506	0.551		8.89	20
1,1,2-Trichloroethane	0.244	0.260		6.56	20
2-Hexanone	0.143	0.165		15.39	20
Dibromochloromethane	0.315	0.331		5.08	20
1,2-Dibromoethane	0.228	0.239		4.82	20
Tetrachloroethene	0.472	0.498		5.51	20
Chlorobenzene	1.099	1.178	0.3	7.19	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>07/02/2025</u> <u>10:37</u>
Lab File ID:	<u>VY022903.D</u>	Init. Calib. Date(s):	<u>06/23/2025</u> <u>06/23/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>13:38</u> <u>15:31</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.164		12.12	20
m/p-Xylenes	0.746	0.834		11.8	20
o-Xylene	0.703	0.783		11.38	20
Styrene	1.178	1.313		11.46	20
Bromoform	0.207	0.220	0.1	6.28	20
Isopropylbenzene	3.698	4.114		11.25	20
1,1,2,2-Tetrachloroethane	0.596	0.635	0.3	6.54	20
1,3-Dichlorobenzene	1.683	1.822		8.26	20
1,4-Dichlorobenzene	1.672	1.793		7.24	20
1,2-Dichlorobenzene	1.483	1.577		6.34	20
1,2-Dibromo-3-Chloropropane	0.101	0.105		3.96	20
1,2,4-Trichlorobenzene	0.838	0.880		5.01	20
1,2,3-Trichlorobenzene	0.724	0.729		0.69	20
1,2-Dichloroethane-d4	0.558	0.550		-1.43	20
Dibromofluoromethane	0.304	0.303		-0.33	20
Toluene-d8	1.207	1.217		0.83	20
4-Bromofluorobenzene	0.388	0.389		0.26	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022903.D
 Acq On : 02 Jul 2025 10:37
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/03/2025
 Supervised By :Semsettin Yesilyurt 07/03/2025

Quant Time: Jul 03 02:17:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	453239	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	750175	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	644334	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	321198	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	249332	49.289	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	98.580%		
35) Dibromofluoromethane	7.634	113	227050	49.768	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.540%		
50) Toluene-d8	10.109	98	913078	50.437	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	100.880%		
62) 4-Bromofluorobenzene	12.402	95	291499	50.088	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	100.180%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	186320	48.074	ug/l	98
3) Chloromethane	2.068	50	406579	54.938	ug/l	98
4) Vinyl Chloride	2.202	62	473041	51.162	ug/l	100
5) Bromomethane	2.598	94	366252	50.387	ug/l	99
6) Chloroethane	2.739	64	325483	52.370	ug/l	95
7) Trichlorofluoromethane	3.056	101	512534	50.063	ug/l	97
8) Diethyl Ether	3.458	74	131602	52.045	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	239790	51.252	ug/l	98
10) Methyl Iodide	4.007	142	268171	52.645	ug/l	99
11) Tert butyl alcohol	4.891	59	77275	229.738	ug/l #	88
12) 1,1-Dichloroethene	3.793	96	237332	51.733	ug/l	97
13) Acrolein	3.659	56	59412	130.259	ug/l	98
14) Allyl chloride	4.385	41	389043	55.134	ug/l	93
15) Acrylonitrile	5.061	53	283103	268.343	ug/l	100
16) Acetone	3.879	43	295403	308.962	ug/l	97
17) Carbon Disulfide	4.104	76	755112	50.951	ug/l	100
18) Methyl Acetate	4.391	43	154964	48.941	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	661264	52.936	ug/l	100
20) Methylene Chloride	4.616	84	296352	49.080	ug/l	99
21) trans-1,2-Dichloroethene	5.116	96	272178	51.911	ug/l	99
22) Diisopropyl ether	6.025	45	859742	54.863	ug/l	98
23) Vinyl Acetate	5.964	43	2436577	281.530	ug/l	100
24) 1,1-Dichloroethane	5.921	63	510988	53.984	ug/l	99
25) 2-Butanone	6.903	43	396519	284.947	ug/l	98
26) 2,2-Dichloropropane	6.890	77	438828	55.306	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	315381	51.765	ug/l	97
28) Bromochloromethane	7.244	49	206234	51.825	ug/l	97
29) Tetrahydrofuran	7.268	42	237778	270.605	ug/l	98
30) Chloroform	7.427	83	508238	52.131	ug/l	94
31) Cyclohexane	7.701	56	459160	52.845	ug/l	99
32) 1,1,1-Trichloroethane	7.622	97	448242	53.205	ug/l	99
36) 1,1-Dichloropropene	7.835	75	371706	53.752	ug/l	100
37) Ethyl Acetate	6.988	43	165291	55.392	ug/l	98
38) Carbon Tetrachloride	7.823	117	388703	53.273	ug/l	99
39) Methylcyclohexane	9.109	83	491933	54.971	ug/l	99
40) Benzene	8.079	78	1141160	53.674	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022903.D
 Acq On : 02 Jul 2025 10:37
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/03/2025

Supervised By :Semsettin Yesilyurt 07/03/2025

Quant Time: Jul 03 02:17:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	89058	48.479	ug/l	96
42) 1,2-Dichloroethane	8.158	62	311167	53.409	ug/l	99
43) Isopropyl Acetate	8.201	43	339974	54.817	ug/l	99
44) Trichloroethene	8.866	130	284153	53.232	ug/l	100
45) 1,2-Dichloropropane	9.140	63	272403	54.743	ug/l	100
46) Dibromomethane	9.231	93	145649	51.562	ug/l	96
47) Bromodichloromethane	9.426	83	384954	52.849	ug/l	95
48) Methyl methacrylate	9.219	41	166230	55.754	ug/l	94
49) 1,4-Dioxane	9.238	88	32026	959.632	ug/l	98
51) 4-Methyl-2-Pentanone	10.000	43	891979	283.019	ug/l	97
52) Toluene	10.170	92	725115	54.060	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	360192	54.960	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	413613	54.430	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	194751	53.244	ug/l	96
56) Ethyl methacrylate	10.438	69	273989	55.677	ug/l	94
57) 1,3-Dichloropropane	10.719	76	342524	53.673	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	675089	260.320	ug/l	100
59) 2-Hexanone	10.762	43	618341	288.576	ug/l	98
60) Dibromochloromethane	10.914	129	248656	52.630	ug/l	99
61) 1,2-Dibromoethane	11.018	107	179534	52.452	ug/l	98
64) Tetrachloroethene	10.646	164	320778	52.699	ug/l	96
65) Chlorobenzene	11.444	112	759204	53.623	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	254715	53.117	ug/l	98
67) Ethyl Benzene	11.518	91	1394245	56.048	ug/l	98
68) m/p-Xylenes	11.627	106	1074780	111.770	ug/l	99
69) o-Xylene	11.957	106	504799	55.713	ug/l	99
70) Styrene	11.969	104	846178	55.754	ug/l	99
71) Bromoform	12.133	173	141673	53.058	ug/l #	99
73) Isopropylbenzene	12.255	105	1321351	55.625	ug/l	99
74) N-amyl acetate	12.072	43	308837	57.921	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	204060	53.300	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	160991m	49.095	ug/l	
77) Bromobenzene	12.530	156	287274	53.353	ug/l	99
78) n-propylbenzene	12.597	91	1616734	56.371	ug/l	98
79) 2-Chlorotoluene	12.676	91	895405	55.258	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	1071945	55.899	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.304	75	73314	56.484	ug/l	97
82) 4-Chlorotoluene	12.780	91	925486	54.375	ug/l	100
83) tert-Butylbenzene	12.999	119	955110	56.476	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1072543	55.864	ug/l	99
85) sec-Butylbenzene	13.176	105	1449215	56.954	ug/l	100
86) p-Isopropyltoluene	13.292	119	1197717	56.563	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	585352	54.130	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	576014	53.624	ug/l	99
89) n-Butylbenzene	13.615	91	1146686	57.570	ug/l	99
90) Hexachloroethane	13.877	117	228866	54.266	ug/l	96
91) 1,2-Dichlorobenzene	13.657	146	506458	53.145	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	33664	51.851	ug/l	97
93) 1,2,4-Trichlorobenzene	14.919	180	282495	52.504	ug/l	98
94) Hexachlorobutadiene	15.023	225	154702	50.846	ug/l	98
95) Naphthalene	15.139	128	508722	52.284	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	234121	50.355	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022903.D
Acq On : 02 Jul 2025 10:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/03/2025
Supervised By :Semsettin Yesilyurt 07/03/2025

Quant Time: Jul 03 02:17:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

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

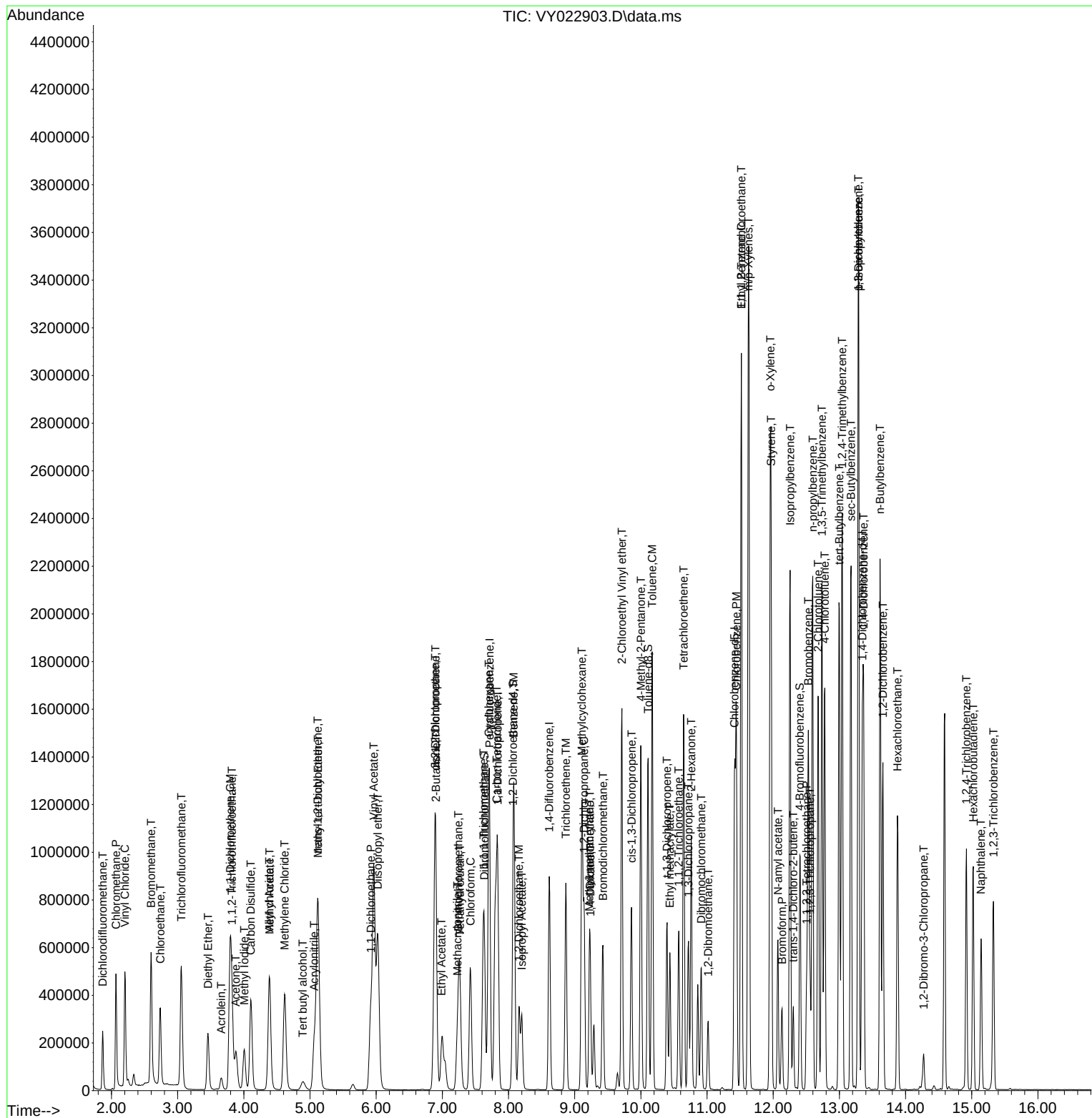
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022903.D
 Acq On : 02 Jul 2025 10:37
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/soil
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Quant Time: Jul 03 02:17:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/03/2025
 Supervised By :Semsettin Yesilyurt 07/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022903.D
 Acq On : 02 Jul 2025 10:37
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 03 02:17:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	0.428	0.411	4.0	94	0.00
3 P	Chloromethane	0.816	0.897	-9.9	110	0.00
4 C	Vinyl Chloride	1.020	1.044	-2.4#	97	0.00
5 T	Bromomethane	0.802	0.808	-0.7	102	0.00
6 T	Chloroethane	0.686	0.718	-4.7	101	0.00
7 T	Trichlorofluoromethane	1.129	1.131	-0.2	94	0.00
8 T	Diethyl Ether	0.279	0.290	-3.9	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.516	0.529	-2.5	100	0.00
10 T	Methyl Iodide	0.562	0.592	-5.3	92	0.00
11 T	Tert butyl alcohol	0.037	0.034	8.1	87	0.00
12 CM	1,1-Dichloroethene	0.506	0.524	-3.6#	99	0.00
13 T	Acrolein	0.050	0.026	48.0#	52	0.00
14 T	Allyl chloride	0.778	0.858	-10.3	105	0.00
15 T	Acrylonitrile	0.116	0.125	-7.8	101	0.00
16 T	Acetone	0.105	0.130	-23.8	133	0.00
17 T	Carbon Disulfide	1.635	1.666	-1.9	97	0.00
18 T	Methyl Acetate	0.349	0.342	2.0	95	0.00
19 T	Methyl tert-butyl Ether	1.378	1.459	-5.9	99	0.00
20 T	Methylene Chloride	0.666	0.654	1.8	108	0.00
21 T	trans-1,2-Dichloroethene	0.578	0.601	-4.0	99	0.00
22 T	Diisopropyl ether	1.729	1.897	-9.7	103	0.00
23 T	Vinyl Acetate	0.955	1.075	-12.6	103	0.00
24 P	1,1-Dichloroethane	1.044	1.127	-8.0	102	0.00
25 T	2-Butanone	0.154	0.175	-13.6	111	0.00
26 T	2,2-Dichloropropane	0.875	0.968	-10.6	106	0.00
27 T	cis-1,2-Dichloroethene	0.672	0.696	-3.6	99	0.00
28 T	Bromochloromethane	0.439	0.455	-3.6	96	0.00
29 T	Tetrahydrofuran	0.097	0.105	-8.2	100	0.00
30 C	Chloroform	1.076	1.121	-4.2#	99	0.00
31 T	Cyclohexane	0.959	1.013	-5.6	104	0.00
32 T	1,1,1-Trichloroethane	0.929	0.989	-6.5	101	0.00
33 S	1,2-Dichloroethane-d4	0.558	0.550	1.4	96	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
35 S	Dibromofluoromethane	0.304	0.303	0.3	95	0.00
36 T	1,1-Dichloropropene	0.461	0.495	-7.4	101	0.00
37 T	Ethyl Acetate	0.199	0.220	-10.6	102	0.00
38 T	Carbon Tetrachloride	0.486	0.518	-6.6	101	0.00
39 T	Methylcyclohexane	0.596	0.656	-10.1	101	0.00
40 TM	Benzene	1.417	1.521	-7.3	99	0.00
41 T	Methacrylonitrile	0.122	0.119	2.5	95	0.00
42 TM	1,2-Dichloroethane	0.388	0.415	-7.0	99	0.00
43 T	Isopropyl Acetate	0.413	0.453	-9.7	99	0.00
44 TM	Trichloroethene	0.356	0.379	-6.5	97	0.00
45 C	1,2-Dichloropropane	0.332	0.363	-9.3#	102	0.00
46 T	Dibromomethane	0.188	0.194	-3.2	97	0.00
47 T	Bromodichloromethane	0.485	0.513	-5.8	98	0.00
48 T	Methyl methacrylate	0.199	0.222	-11.6	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022903.D
 Acq On : 02 Jul 2025 10:37
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 03 02:17:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	88	0.00
50 S	Toluene-d8	1.207	1.217	-0.8	96	0.00
51 T	4-Methyl-2-Pentanone	0.210	0.238	-13.3	101	0.00
52 CM	Toluene	0.894	0.967	-8.2#	100	0.00
53 T	t-1,3-Dichloropropene	0.437	0.480	-9.8	102	0.00
54 T	cis-1,3-Dichloropropene	0.506	0.551	-8.9	101	0.00
55 T	1,1,2-Trichloroethane	0.244	0.260	-6.6	98	0.00
56 T	Ethyl methacrylate	0.328	0.365	-11.3	99	0.00
57 T	1,3-Dichloropropane	0.425	0.457	-7.5	100	0.00
58 T	2-Chloroethyl Vinyl ether	0.145	0.180	-24.1	102	0.00
59 T	2-Hexanone	0.143	0.165	-15.4	104	0.00
60 T	Dibromochloromethane	0.315	0.331	-5.1	96	0.00
61 T	1,2-Dibromoethane	0.228	0.239	-4.8	97	0.00
62 S	4-Bromofluorobenzene	0.388	0.389	-0.3	96	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64 T	Tetrachloroethene	0.472	0.498	-5.5	91	0.00
65 PM	Chlorobenzene	1.099	1.178	-7.2	99	0.00
66 T	1,1,1,2-Tetrachloroethane	0.372	0.395	-6.2	97	0.00
67 C	Ethyl Benzene	1.930	2.164	-12.1#	101	0.00
68 T	m/p-Xylenes	0.746	0.834	-11.8	101	0.00
69 T	o-Xylene	0.703	0.783	-11.4	101	0.00
70 T	Styrene	1.178	1.313	-11.5	99	0.00
71 P	Bromoform	0.207	0.220	-6.3	98	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73 T	Isopropylbenzene	3.698	4.114	-11.2	101	0.00
74 T	N-amyl acetate	0.830	0.962	-15.9	100	0.00
75 P	1,1,2,2-Tetrachloroethane	0.596	0.635	-6.5	104	0.00
76 T	1,2,3-Trichloropropane	0.510	0.501	1.8	92	0.00
77 T	Bromobenzene	0.838	0.894	-6.7	98	0.00
78 T	n-propylbenzene	4.465	5.033	-12.7	103	0.00
79 T	2-Chlorotoluene	2.522	2.788	-10.5	101	0.00
80 T	1,3,5-Trimethylbenzene	2.985	3.337	-11.8	102	0.00
81 T	trans-1,4-Dichloro-2-butene	0.202	0.228	-12.9	107	0.00
82 T	4-Chlorotoluene	2.650	2.881	-8.7	100	0.00
83 T	tert-Butylbenzene	2.633	2.974	-13.0	102	0.00
84 T	1,2,4-Trimethylbenzene	2.989	3.339	-11.7	100	0.00
85 T	sec-Butylbenzene	3.961	4.512	-13.9	103	0.00
86 T	p-Isopropyltoluene	3.296	3.729	-13.1	102	0.00
87 T	1,3-Dichlorobenzene	1.683	1.822	-8.3	99	0.00
88 T	1,4-Dichlorobenzene	1.672	1.793	-7.2	99	0.00
89 T	n-Butylbenzene	3.101	3.570	-15.1	104	0.00
90 T	Hexachloroethane	0.657	0.713	-8.5	99	0.00
91 T	1,2-Dichlorobenzene	1.483	1.577	-6.3	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.101	0.105	-4.0	95	0.00
93 T	1,2,4-Trichlorobenzene	0.838	0.880	-5.0	97	0.00
94 T	Hexachlorobutadiene	0.474	0.482	-1.7	97	0.00
95 T	Naphthalene	1.515	1.584	-4.6	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022903.D
Acq On : 02 Jul 2025 10:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 03 02:17:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.724	0.729	-0.7	93	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022903.D
 Acq On : 02 Jul 2025 10:37
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 03 02:17:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	50.000	48.074	3.9	94	0.00
3 P	Chloromethane	50.000	54.938	-9.9	110	0.00
4 C	Vinyl Chloride	50.000	51.162	-2.3#	97	0.00
5 T	Bromomethane	50.000	50.387	-0.8	102	0.00
6 T	Chloroethane	50.000	52.370	-4.7	101	0.00
7 T	Trichlorofluoromethane	50.000	50.063	-0.1	94	0.00
8 T	Diethyl Ether	50.000	52.045	-4.1	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.252	-2.5	100	0.00
10 T	Methyl Iodide	50.000	52.645	-5.3	92	0.00
11 T	Tert butyl alcohol	250.000	229.738	8.1	87	0.00
12 CM	1,1-Dichloroethene	50.000	51.733	-3.5#	99	0.00
13 T	Acrolein	250.000	130.259	47.9#	52	0.00
14 T	Allyl chloride	50.000	55.134	-10.3	105	0.00
15 T	Acrylonitrile	250.000	268.343	-7.3	101	0.00
16 T	Acetone	250.000	308.962	-23.6	133	0.00
17 T	Carbon Disulfide	50.000	50.951	-1.9	97	0.00
18 T	Methyl Acetate	50.000	48.941	2.1	95	0.00
19 T	Methyl tert-butyl Ether	50.000	52.936	-5.9	99	0.00
20 T	Methylene Chloride	50.000	49.080	1.8	108	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.911	-3.8	99	0.00
22 T	Diisopropyl ether	50.000	54.863	-9.7	103	0.00
23 T	Vinyl Acetate	250.000	281.530	-12.6	103	0.00
24 P	1,1-Dichloroethane	50.000	53.984	-8.0	102	0.00
25 T	2-Butanone	250.000	284.947	-14.0	111	0.00
26 T	2,2-Dichloropropane	50.000	55.306	-10.6	106	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.765	-3.5	99	0.00
28 T	Bromochloromethane	50.000	51.825	-3.7	96	0.00
29 T	Tetrahydrofuran	250.000	270.605	-8.2	100	0.00
30 C	Chloroform	50.000	52.131	-4.3#	99	0.00
31 T	Cyclohexane	50.000	52.845	-5.7	104	0.00
32 T	1,1,1-Trichloroethane	50.000	53.205	-6.4	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.289	1.4	96	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	96	0.00
35 S	Dibromofluoromethane	50.000	49.768	0.5	95	0.00
36 T	1,1-Dichloropropene	50.000	53.752	-7.5	101	0.00
37 T	Ethyl Acetate	50.000	55.392	-10.8	102	0.00
38 T	Carbon Tetrachloride	50.000	53.273	-6.5	101	0.00
39 T	Methylcyclohexane	50.000	54.971	-9.9	101	0.00
40 TM	Benzene	50.000	53.674	-7.3	99	0.00
41 T	Methacrylonitrile	50.000	48.479	3.0	95	0.00
42 TM	1,2-Dichloroethane	50.000	53.409	-6.8	99	0.00
43 T	Isopropyl Acetate	50.000	54.817	-9.6	99	0.00
44 TM	Trichloroethene	50.000	53.232	-6.5	97	0.00
45 C	1,2-Dichloropropane	50.000	54.743	-9.5#	102	0.00
46 T	Dibromomethane	50.000	51.562	-3.1	97	0.00
47 T	Bromodichloromethane	50.000	52.849	-5.7	98	0.00
48 T	Methyl methacrylate	50.000	55.754	-11.5	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022903.D
 Acq On : 02 Jul 2025 10:37
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 03 02:17:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	959.632	4.0	88	0.00
50 S	Toluene-d8	50.000	50.437	-0.9	96	0.00
51 T	4-Methyl-2-Pentanone	250.000	283.019	-13.2	101	0.00
52 CM	Toluene	50.000	54.060	-8.1#	100	0.00
53 T	t-1,3-Dichloropropene	50.000	54.960	-9.9	102	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.430	-8.9	101	0.00
55 T	1,1,2-Trichloroethane	50.000	53.244	-6.5	98	0.00
56 T	Ethyl methacrylate	50.000	55.677	-11.4	99	0.00
57 T	1,3-Dichloropropane	50.000	53.673	-7.3	100	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	260.320	-4.1	102	0.00
59 T	2-Hexanone	250.000	288.576	-15.4	104	0.00
60 T	Dibromochloromethane	50.000	52.630	-5.3	96	0.00
61 T	1,2-Dibromoethane	50.000	52.452	-4.9	97	0.00
62 S	4-Bromofluorobenzene	50.000	50.088	-0.2	96	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64 T	Tetrachloroethene	50.000	52.699	-5.4	91	0.00
65 PM	Chlorobenzene	50.000	53.623	-7.2	99	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.117	-6.2	97	0.00
67 C	Ethyl Benzene	50.000	56.048	-12.1#	101	0.00
68 T	m/p-Xylenes	100.000	111.770	-11.8	101	0.00
69 T	o-Xylene	50.000	55.713	-11.4	101	0.00
70 T	Styrene	50.000	55.754	-11.5	99	0.00
71 P	Bromoform	50.000	53.058	-6.1	98	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73 T	Isopropylbenzene	50.000	55.625	-11.3	101	0.00
74 T	N-amyl acetate	50.000	57.921	-15.8	100	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	53.300	-6.6	104	0.00
76 T	1,2,3-Trichloropropane	50.000	49.095	1.8	92	0.00
77 T	Bromobenzene	50.000	53.353	-6.7	98	0.00
78 T	n-propylbenzene	50.000	56.371	-12.7	103	0.00
79 T	2-Chlorotoluene	50.000	55.258	-10.5	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	55.899	-11.8	102	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	56.484	-13.0	107	0.00
82 T	4-Chlorotoluene	50.000	54.375	-8.8	100	0.00
83 T	tert-Butylbenzene	50.000	56.476	-13.0	102	0.00
84 T	1,2,4-Trimethylbenzene	50.000	55.864	-11.7	100	0.00
85 T	sec-Butylbenzene	50.000	56.954	-13.9	103	0.00
86 T	p-Isopropyltoluene	50.000	56.563	-13.1	102	0.00
87 T	1,3-Dichlorobenzene	50.000	54.130	-8.3	99	0.00
88 T	1,4-Dichlorobenzene	50.000	53.624	-7.2	99	0.00
89 T	n-Butylbenzene	50.000	57.570	-15.1	104	0.00
90 T	Hexachloroethane	50.000	54.266	-8.5	99	0.00
91 T	1,2-Dichlorobenzene	50.000	53.145	-6.3	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.851	-3.7	95	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.504	-5.0	97	0.00
94 T	Hexachlorobutadiene	50.000	50.846	-1.7	97	0.00
95 T	Naphthalene	50.000	52.284	-4.6	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022903.D
Acq On : 02 Jul 2025 10:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 03 02:17:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.355	-0.7	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>07/03/2025 09:26</u>
Lab File ID:	<u>VY022929.D</u>	Init. Calib. Date(s):	<u>06/23/2025 06/23/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>13:38 15:31</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.395		-7.71	20
Chloromethane	0.816	0.853	0.1	4.53	20
Vinyl Chloride	1.020	1.001		-1.86	20
Bromomethane	0.802	0.783		-2.37	20
Chloroethane	0.686	0.704		2.62	20
Trichlorofluoromethane	1.129	1.112		-1.51	20
1,1,2-Trichlorotrifluoroethane	0.516	0.521		0.97	20
1,1-Dichloroethene	0.506	0.499		-1.38	20
Acetone	0.105	0.122		16.19	20
Carbon Disulfide	1.635	1.601		-2.08	20
Methyl tert-butyl Ether	1.378	1.350		-2.03	20
Methyl Acetate	0.349	0.306		-12.32	20
Methylene Chloride	0.666	0.618		-7.21	20
trans-1,2-Dichloroethene	0.578	0.573		-0.87	20
1,1-Dichloroethane	1.044	1.086	0.1	4.02	20
Cyclohexane	0.959	0.963		0.42	20
2-Butanone	0.154	0.158		2.6	20
Carbon Tetrachloride	0.486	0.511		5.14	20
cis-1,2-Dichloroethene	0.672	0.674		0.3	20
Bromochloromethane	0.439	0.476		8.43	20
Chloroform	1.076	1.085		0.93	20
1,1,1-Trichloroethane	0.929	0.949		2.15	20
Methylcyclohexane	0.596	0.639		7.22	20
Benzene	1.417	1.504		6.14	20
1,2-Dichloroethane	0.388	0.408		5.16	20
Trichloroethene	0.356	0.371		4.21	20
1,2-Dichloropropane	0.332	0.354		6.63	20
Bromodichloromethane	0.485	0.508		4.74	20
4-Methyl-2-Pentanone	0.210	0.223		6.19	20
Toluene	0.894	0.947		5.93	20
t-1,3-Dichloropropene	0.437	0.460		5.26	20
cis-1,3-Dichloropropene	0.506	0.534		5.53	20
1,1,2-Trichloroethane	0.244	0.251		2.87	20
2-Hexanone	0.143	0.154		7.69	20
Dibromochloromethane	0.315	0.319		1.27	20
1,2-Dibromoethane	0.228	0.231		1.32	20
Tetrachloroethene	0.472	0.517		9.53	20
Chlorobenzene	1.099	1.171	0.3	6.55	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2458</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>07/03/2025</u> <u>09:26</u>
Lab File ID:	<u>VY022929.D</u>	Init. Calib. Date(s):	<u>06/23/2025</u> <u>06/23/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>13:38</u> <u>15:31</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.129		10.31	20
m/p-Xylenes	0.746	0.813		8.98	20
o-Xylene	0.703	0.753		7.11	20
Styrene	1.178	1.277		8.4	20
Bromoform	0.207	0.207	0.1	0	20
Isopropylbenzene	3.698	4.069		10.03	20
1,1,2,2-Tetrachloroethane	0.596	0.596	0.3	0	20
1,3-Dichlorobenzene	1.683	1.801		7.01	20
1,4-Dichlorobenzene	1.672	1.727		3.29	20
1,2-Dichlorobenzene	1.483	1.511		1.89	20
1,2-Dibromo-3-Chloropropane	0.101	0.094		-6.93	20
1,2,4-Trichlorobenzene	0.838	0.802		-4.3	20
1,2,3-Trichlorobenzene	0.724	0.673		-7.04	20
1,2-Dichloroethane-d4	0.558	0.550		-1.43	20
Dibromofluoromethane	0.304	0.318		4.61	20
Toluene-d8	1.207	1.258		4.22	20
4-Bromofluorobenzene	0.388	0.393		1.29	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022929.D
 Acq On : 03 Jul 2025 09:26
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : Mahesh Dadoda 07/07/2025
 Supervised By : Semsettin Yesilyurt 07/07/2025

Quant Time: Jul 04 03:14:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	402903	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	653588	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	556811	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	273118	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	221711	49.304	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	98.600%		
35) Dibromofluoromethane	7.634	113	207893	52.303	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	104.600%		
50) Toluene-d8	10.109	98	822398	52.141	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	104.280%		
62) 4-Bromofluorobenzene	12.402	95	256743	50.636	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	101.280%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	159301	46.238	ug/l	99
3) Chloromethane	2.068	50	343620	52.232	ug/l	100
4) Vinyl Chloride	2.202	62	403476	49.090	ug/l	99
5) Bromomethane	2.592	94	315366	48.807	ug/l	99
6) Chloroethane	2.733	64	283645	51.340	ug/l	95
7) Trichlorofluoromethane	3.050	101	447854	49.210	ug/l	97
8) Diethyl Ether	3.452	74	109892	48.889	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	209821	50.449	ug/l	98
10) Methyl Iodide	4.007	142	264145	58.333	ug/l	100
11) Tert butyl alcohol	4.891	59	62549	209.190	ug/l #	88
12) 1,1-Dichloroethene	3.787	96	201123	49.317	ug/l	98
13) Acrolein	3.653	56	45546	112.333	ug/l	100
14) Allyl chloride	4.385	41	329895	52.592	ug/l	93
15) Acrylonitrile	5.061	53	236140	251.792	ug/l	99
16) Acetone	3.879	43	244955	288.206	ug/l	96
17) Carbon Disulfide	4.104	76	644897	48.950	ug/l	100
18) Methyl Acetate	4.385	43	123302	43.806	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	543984	48.988	ug/l	100
20) Methylene Chloride	4.616	84	248906	46.373	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	230748	49.507	ug/l	95
22) Diisopropyl ether	6.019	45	737022	52.907	ug/l	96
23) Vinyl Acetate	5.958	43	2032484	264.179	ug/l	99
24) 1,1-Dichloroethane	5.915	63	437401	51.983	ug/l	99
25) 2-Butanone	6.896	43	318896	257.796	ug/l	98
26) 2,2-Dichloropropane	6.884	77	380952	54.010	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	271426	50.116	ug/l	98
28) Bromochloromethane	7.244	49	191848	54.233	ug/l	99
29) Tetrahydrofuran	7.262	42	192259	246.138	ug/l	99
30) Chloroform	7.421	83	437061	50.431	ug/l	93
31) Cyclohexane	7.701	56	388020	50.237	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	382460	51.068	ug/l	99
36) 1,1-Dichloropropene	7.835	75	319955	53.106	ug/l	100
37) Ethyl Acetate	6.988	43	137965	53.067	ug/l	98
38) Carbon Tetrachloride	7.817	117	334137	52.562	ug/l	97
39) Methylcyclohexane	9.110	83	417671	53.570	ug/l	99
40) Benzene	8.079	78	983034	53.069	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022929.D
 Acq On : 03 Jul 2025 09:26
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/07/2025
 Supervised By :Semsettin Yesilyurt 07/07/2025

Quant Time: Jul 04 03:14:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	79058	49.395	ug/l	97
42) 1,2-Dichloroethane	8.158	62	266580	52.518	ug/l	97
43) Isopropyl Acetate	8.195	43	278215	51.489	ug/l	99
44) Trichloroethene	8.866	130	242347	52.109	ug/l	95
45) 1,2-Dichloropropane	9.140	63	231313	53.355	ug/l	95
46) Dibromomethane	9.231	93	124676	50.659	ug/l	98
47) Bromodichloromethane	9.420	83	331843	52.290	ug/l	96
48) Methyl methacrylate	9.219	41	132085	50.849	ug/l	94
49) 1,4-Dioxane	9.238	88	26705	918.445	ug/l	96
51) 4-Methyl-2-Pentanone	10.000	43	730249	265.945	ug/l	97
52) Toluene	10.170	92	619081	52.975	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	300582	52.642	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	348697	52.668	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	163959	51.449	ug/l	98
56) Ethyl methacrylate	10.439	69	220750	51.487	ug/l	96
57) 1,3-Dichloropropane	10.719	76	288129	51.822	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	564852	250.621	ug/l	100
59) 2-Hexanone	10.762	43	503372	269.637	ug/l	99
60) Dibromochloromethane	10.908	129	208619	50.681	ug/l	100
61) 1,2-Dibromoethane	11.012	107	150877	50.594	ug/l	96
64) Tetrachloroethene	10.646	164	287771	54.707	ug/l	98
65) Chlorobenzene	11.444	112	651961	53.287	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.512	131	218147	52.642	ug/l	99
67) Ethyl Benzene	11.518	91	1185364	55.142	ug/l	99
68) m/p-Xylenes	11.627	106	904993	108.907	ug/l	97
69) o-Xylene	11.957	106	419143	53.531	ug/l	99
70) Styrene	11.969	104	711124	54.220	ug/l	99
71) Bromoform	12.133	173	115339	49.986	ug/l #	99
73) Isopropylbenzene	12.255	105	1111224	55.014	ug/l	100
74) N-amyl acetate	12.072	43	247051	54.490	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	162805	50.011	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	136940m	49.112	ug/l	
77) Bromobenzene	12.530	156	237250	51.820	ug/l	99
78) n-propylbenzene	12.597	91	1352930	55.477	ug/l	99
79) 2-Chlorotoluene	12.682	91	749820	54.420	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	900336	55.216	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	58536	53.038	ug/l	98
82) 4-Chlorotoluene	12.774	91	779678	53.872	ug/l	100
83) tert-Butylbenzene	12.999	119	799316	55.584	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	890409	54.542	ug/l	100
85) sec-Butylbenzene	13.176	105	1195350	55.247	ug/l	99
86) p-Isopropyltoluene	13.292	119	993029	55.152	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	491888	53.495	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	471793	51.654	ug/l	99
89) n-Butylbenzene	13.615	91	940757	55.546	ug/l	100
90) Hexachloroethane	13.877	117	193122	53.852	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	412651	50.925	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	25721	46.591	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	218911	47.848	ug/l	99
94) Hexachlorobutadiene	15.023	225	125810	48.629	ug/l	98
95) Naphthalene	15.145	128	386461	46.711	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	183678	46.460	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022929.D
Acq On : 03 Jul 2025 09:26
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/07/2025
Supervised By :Semsettin Yesilyurt 07/07/2025

Quant Time: Jul 04 03:14:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

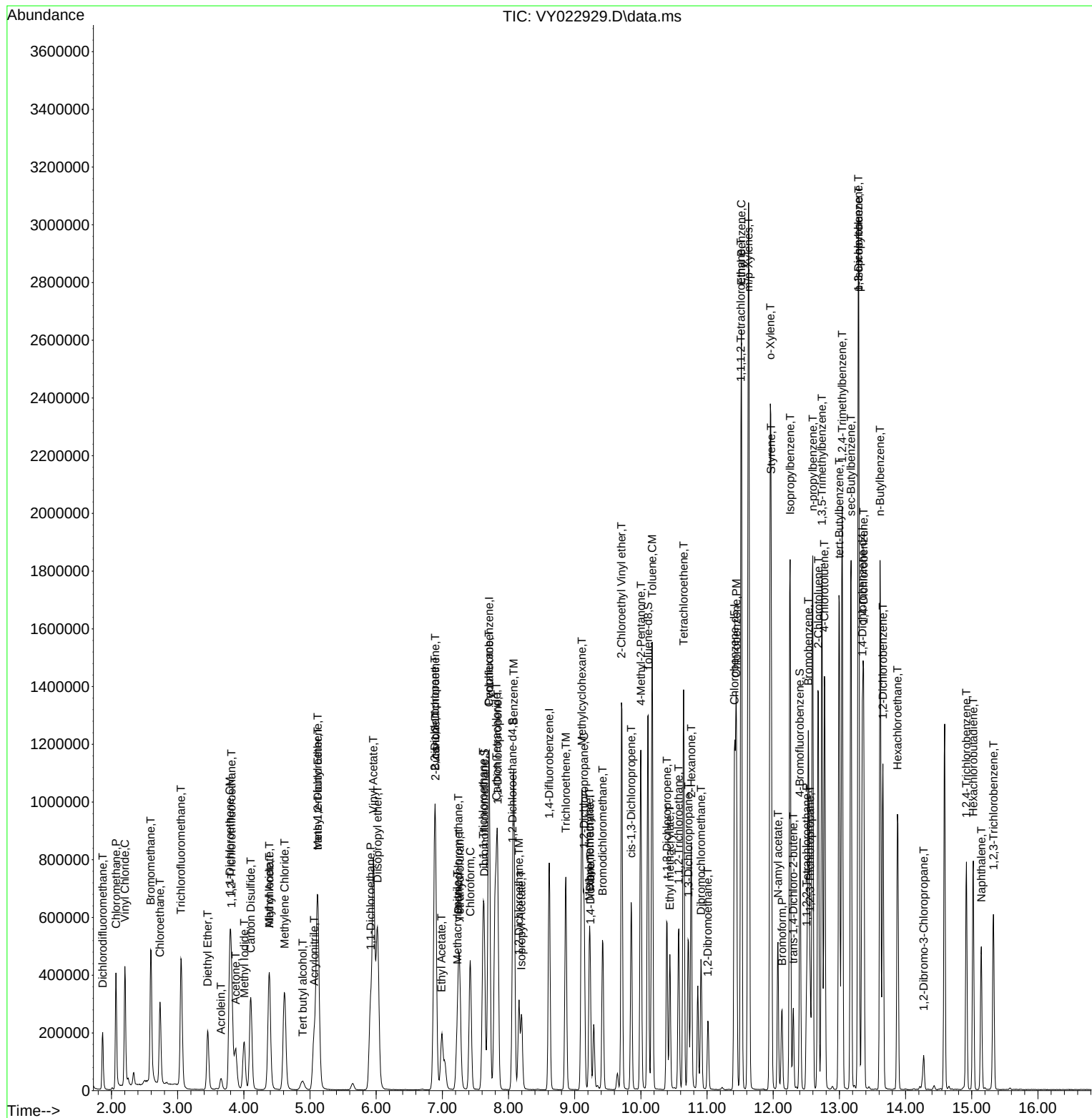
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :Mahesh Dadoda 07/07/2025
Supervised By :Semsettin Yesilyurt 07/07/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022929.D
 Acq On : 03 Jul 2025 09:26
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
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Instrument :
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 LabSampleId :
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Quant Time: Jul 04 03:14:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	86	0.00
2 T	Dichlorodifluoromethane	0.428	0.395	7.7	81	0.00
3 P	Chloromethane	0.816	0.853	-4.5	93	0.00
4 C	Vinyl Chloride	1.020	1.001	1.9#	83	0.00
5 T	Bromomethane	0.802	0.783	2.4	88	0.00
6 T	Chloroethane	0.686	0.704	-2.6	88	0.00
7 T	Trichlorofluoromethane	1.129	1.112	1.5	82	0.00
8 T	Diethyl Ether	0.279	0.273	2.2	83	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.516	0.521	-1.0	87	0.00
10 T	Methyl Iodide	0.562	0.656	-16.7	90	0.00
11 T	Tert butyl alcohol	0.037	0.031	16.2	70	0.00
12 CM	1,1-Dichloroethene	0.506	0.499	1.4#	84	-0.01
13 T	Acrolein	0.050	0.023	54.0#	39#	0.00
14 T	Allyl chloride	0.778	0.819	-5.3	89	0.00
15 T	Acrylonitrile	0.116	0.117	-0.9	84	0.00
16 T	Acetone	0.105	0.122	-16.2	110	0.00
17 T	Carbon Disulfide	1.635	1.601	2.1	83	0.00
18 T	Methyl Acetate	0.349	0.306	12.3	75	-0.01
19 T	Methyl tert-butyl Ether	1.378	1.350	2.0	81	-0.01
20 T	Methylene Chloride	0.666	0.618	7.2	90	0.00
21 T	trans-1,2-Dichloroethene	0.578	0.573	0.9	84	0.00
22 T	Diisopropyl ether	1.729	1.829	-5.8	88	0.00
23 T	Vinyl Acetate	0.955	1.009	-5.7	86	-0.01
24 P	1,1-Dichloroethane	1.044	1.086	-4.0	87	0.00
25 T	2-Butanone	0.154	0.158	-2.6	89	0.00
26 T	2,2-Dichloropropane	0.875	0.946	-8.1	92	0.00
27 T	cis-1,2-Dichloroethene	0.672	0.674	-0.3	85	0.00
28 T	Bromochloromethane	0.439	0.476	-8.4	90	0.00
29 T	Tetrahydrofuran	0.097	0.095	2.1	81	0.00
30 C	Chloroform	1.076	1.085	-0.8#	86	0.00
31 T	Cyclohexane	0.959	0.963	-0.4	88	0.00
32 T	1,1,1-Trichloroethane	0.929	0.949	-2.2	86	0.00
33 S	1,2-Dichloroethane-d4	0.558	0.550	1.4	85	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	83	0.00
35 S	Dibromofluoromethane	0.304	0.318	-4.6	87	0.00
36 T	1,1-Dichloropropene	0.461	0.490	-6.3	87	0.00
37 T	Ethyl Acetate	0.199	0.211	-6.0	85	0.00
38 T	Carbon Tetrachloride	0.486	0.511	-5.1	87	0.00
39 T	Methylcyclohexane	0.596	0.639	-7.2	86	0.00
40 TM	Benzene	1.417	1.504	-6.1	85	0.00
41 T	Methacrylonitrile	0.122	0.121	0.8	84	0.00
42 TM	1,2-Dichloroethane	0.388	0.408	-5.2	85	0.00
43 T	Isopropyl Acetate	0.413	0.426	-3.1	81	0.00
44 TM	Trichloroethene	0.356	0.371	-4.2	83	0.00
45 C	1,2-Dichloropropane	0.332	0.354	-6.6#	87	0.00
46 T	Dibromomethane	0.188	0.191	-1.6	83	0.00
47 T	Bromodichloromethane	0.485	0.508	-4.7	85	0.00
48 T	Methyl methacrylate	0.199	0.202	-1.5	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022929.D
 Acq On : 03 Jul 2025 09:26
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 04 03:14:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	74	0.00
50 S	Toluene-d8	1.207	1.258	-4.2	86	0.00
51 T	4-Methyl-2-Pentanone	0.210	0.223	-6.2	82	0.00
52 CM	Toluene	0.894	0.947	-5.9#	85	0.00
53 T	t-1,3-Dichloropropene	0.437	0.460	-5.3	85	0.00
54 T	cis-1,3-Dichloropropene	0.506	0.534	-5.5	85	0.00
55 T	1,1,2-Trichloroethane	0.244	0.251	-2.9	83	0.00
56 T	Ethyl methacrylate	0.328	0.338	-3.0	79	0.00
57 T	1,3-Dichloropropane	0.425	0.441	-3.8	84	0.00
58 T	2-Chloroethyl Vinyl ether	0.145	0.173	-19.3	85	0.00
59 T	2-Hexanone	0.143	0.154	-7.7	85	0.00
60 T	Dibromochloromethane	0.315	0.319	-1.3	81	0.00
61 T	1,2-Dibromoethane	0.228	0.231	-1.3	81	0.00
62 S	4-Bromofluorobenzene	0.388	0.393	-1.3	85	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	82	0.00
64 T	Tetrachloroethene	0.472	0.517	-9.5	82	0.00
65 PM	Chlorobenzene	1.099	1.171	-6.6	85	0.00
66 T	1,1,1,2-Tetrachloroethane	0.372	0.392	-5.4	83	0.00
67 C	Ethyl Benzene	1.930	2.129	-10.3#	86	0.00
68 T	m/p-Xylenes	0.746	0.813	-9.0	85	0.00
69 T	o-Xylene	0.703	0.753	-7.1	84	0.00
70 T	Styrene	1.178	1.277	-8.4	83	0.00
71 P	Bromoform	0.207	0.207	0.0	80	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	79	0.00
73 T	Isopropylbenzene	3.698	4.069	-10.0	85	0.00
74 T	N-amyl acetate	0.830	0.905	-9.0	80	0.00
75 P	1,1,2,2-Tetrachloroethane	0.596	0.596	0.0	83	0.00
76 T	1,2,3-Trichloropropane	0.510	0.501	1.8	78	0.00
77 T	Bromobenzene	0.838	0.869	-3.7	81	0.00
78 T	n-propylbenzene	4.465	4.954	-11.0	86	0.00
79 T	2-Chlorotoluene	2.522	2.745	-8.8	84	0.00
80 T	1,3,5-Trimethylbenzene	2.985	3.297	-10.5	85	0.00
81 T	trans-1,4-Dichloro-2-butene	0.202	0.214	-5.9	85	0.00
82 T	4-Chlorotoluene	2.650	2.855	-7.7	84	0.00
83 T	tert-Butylbenzene	2.633	2.927	-11.2	85	0.00
84 T	1,2,4-Trimethylbenzene	2.989	3.260	-9.1	83	0.00
85 T	sec-Butylbenzene	3.961	4.377	-10.5	85	0.00
86 T	p-Isopropyltoluene	3.296	3.636	-10.3	84	0.00
87 T	1,3-Dichlorobenzene	1.683	1.801	-7.0	84	0.00
88 T	1,4-Dichlorobenzene	1.672	1.727	-3.3	81	0.00
89 T	n-Butylbenzene	3.101	3.445	-11.1	85	0.00
90 T	Hexachloroethane	0.657	0.707	-7.6	83	0.00
91 T	1,2-Dichlorobenzene	1.483	1.511	-1.9	80	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.101	0.094	6.9	72	0.00
93 T	1,2,4-Trichlorobenzene	0.838	0.802	4.3	75	0.00
94 T	Hexachlorobutadiene	0.474	0.461	2.7	79	0.00
95 T	Naphthalene	1.515	1.415	6.6	70	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022929.D
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Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 04 03:14:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.724	0.673	7.0	73	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022929.D
 Acq On : 03 Jul 2025 09:26
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 04 03:14:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	86	0.00
2 T	Dichlorodifluoromethane	50.000	46.238	7.5	81	0.00
3 P	Chloromethane	50.000	52.232	-4.5	93	0.00
4 C	Vinyl Chloride	50.000	49.090	1.8#	83	0.00
5 T	Bromomethane	50.000	48.807	2.4	88	0.00
6 T	Chloroethane	50.000	51.340	-2.7	88	0.00
7 T	Trichlorofluoromethane	50.000	49.210	1.6	82	0.00
8 T	Diethyl Ether	50.000	48.889	2.2	83	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.449	-0.9	87	0.00
10 T	Methyl Iodide	50.000	58.333	-16.7	90	0.00
11 T	Tert butyl alcohol	250.000	209.190	16.3	70	0.00
12 CM	1,1-Dichloroethene	50.000	49.317	1.4#	84	-0.01
13 T	Acrolein	250.000	112.333	55.1#	39	0.00
14 T	Allyl chloride	50.000	52.592	-5.2	89	0.00
15 T	Acrylonitrile	250.000	251.792	-0.7	84	0.00
16 T	Acetone	250.000	288.206	-15.3	110	0.00
17 T	Carbon Disulfide	50.000	48.950	2.1	83	0.00
18 T	Methyl Acetate	50.000	43.806	12.4	75	-0.01
19 T	Methyl tert-butyl Ether	50.000	48.988	2.0	81	-0.01
20 T	Methylene Chloride	50.000	46.373	7.3	90	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.507	1.0	84	0.00
22 T	Diisopropyl ether	50.000	52.907	-5.8	88	0.00
23 T	Vinyl Acetate	250.000	264.179	-5.7	86	-0.01
24 P	1,1-Dichloroethane	50.000	51.983	-4.0	87	0.00
25 T	2-Butanone	250.000	257.796	-3.1	89	0.00
26 T	2,2-Dichloropropane	50.000	54.010	-8.0	92	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.116	-0.2	85	0.00
28 T	Bromochloromethane	50.000	54.233	-8.5	90	0.00
29 T	Tetrahydrofuran	250.000	246.138	1.5	81	0.00
30 C	Chloroform	50.000	50.431	-0.9#	86	0.00
31 T	Cyclohexane	50.000	50.237	-0.5	88	0.00
32 T	1,1,1-Trichloroethane	50.000	51.068	-2.1	86	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.304	1.4	85	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	83	0.00
35 S	Dibromofluoromethane	50.000	52.303	-4.6	87	0.00
36 T	1,1-Dichloropropene	50.000	53.106	-6.2	87	0.00
37 T	Ethyl Acetate	50.000	53.067	-6.1	85	0.00
38 T	Carbon Tetrachloride	50.000	52.562	-5.1	87	0.00
39 T	Methylcyclohexane	50.000	53.570	-7.1	86	0.00
40 TM	Benzene	50.000	53.069	-6.1	85	0.00
41 T	Methacrylonitrile	50.000	49.395	1.2	84	0.00
42 TM	1,2-Dichloroethane	50.000	52.518	-5.0	85	0.00
43 T	Isopropyl Acetate	50.000	51.489	-3.0	81	0.00
44 TM	Trichloroethene	50.000	52.109	-4.2	83	0.00
45 C	1,2-Dichloropropane	50.000	53.355	-6.7#	87	0.00
46 T	Dibromomethane	50.000	50.659	-1.3	83	0.00
47 T	Bromodichloromethane	50.000	52.290	-4.6	85	0.00
48 T	Methyl methacrylate	50.000	50.849	-1.7	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022929.D
 Acq On : 03 Jul 2025 09:26
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 04 03:14:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	918.445	8.2	74	0.00
50 S	Toluene-d8	50.000	52.141	-4.3	86	0.00
51 T	4-Methyl-2-Pentanone	250.000	265.945	-6.4	82	0.00
52 CM	Toluene	50.000	52.975	-6.0#	85	0.00
53 T	t-1,3-Dichloropropene	50.000	52.642	-5.3	85	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.668	-5.3	85	0.00
55 T	1,1,2-Trichloroethane	50.000	51.449	-2.9	83	0.00
56 T	Ethyl methacrylate	50.000	51.487	-3.0	79	0.00
57 T	1,3-Dichloropropane	50.000	51.822	-3.6	84	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	250.621	-0.2	85	0.00
59 T	2-Hexanone	250.000	269.637	-7.9	85	0.00
60 T	Dibromochloromethane	50.000	50.681	-1.4	81	0.00
61 T	1,2-Dibromoethane	50.000	50.594	-1.2	81	0.00
62 S	4-Bromofluorobenzene	50.000	50.636	-1.3	85	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	82	0.00
64 T	Tetrachloroethene	50.000	54.707	-9.4	82	0.00
65 PM	Chlorobenzene	50.000	53.287	-6.6	85	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.642	-5.3	83	0.00
67 C	Ethyl Benzene	50.000	55.142	-10.3#	86	0.00
68 T	m/p-Xylenes	100.000	108.907	-8.9	85	0.00
69 T	o-Xylene	50.000	53.531	-7.1	84	0.00
70 T	Styrene	50.000	54.220	-8.4	83	0.00
71 P	Bromoform	50.000	49.986	0.0	80	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	79	0.00
73 T	Isopropylbenzene	50.000	55.014	-10.0	85	0.00
74 T	N-amyl acetate	50.000	54.490	-9.0	80	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.011	-0.0	83	0.00
76 T	1,2,3-Trichloropropane	50.000	49.112	1.8	78	0.00
77 T	Bromobenzene	50.000	51.820	-3.6	81	0.00
78 T	n-propylbenzene	50.000	55.477	-11.0	86	0.00
79 T	2-Chlorotoluene	50.000	54.420	-8.8	84	0.00
80 T	1,3,5-Trimethylbenzene	50.000	55.216	-10.4	85	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.038	-6.1	85	0.00
82 T	4-Chlorotoluene	50.000	53.872	-7.7	84	0.00
83 T	tert-Butylbenzene	50.000	55.584	-11.2	85	0.00
84 T	1,2,4-Trimethylbenzene	50.000	54.542	-9.1	83	0.00
85 T	sec-Butylbenzene	50.000	55.247	-10.5	85	0.00
86 T	p-Isopropyltoluene	50.000	55.152	-10.3	84	0.00
87 T	1,3-Dichlorobenzene	50.000	53.495	-7.0	84	0.00
88 T	1,4-Dichlorobenzene	50.000	51.654	-3.3	81	0.00
89 T	n-Butylbenzene	50.000	55.546	-11.1	85	0.00
90 T	Hexachloroethane	50.000	53.852	-7.7	83	0.00
91 T	1,2-Dichlorobenzene	50.000	50.925	-1.8	80	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.591	6.8	72	0.00
93 T	1,2,4-Trichlorobenzene	50.000	47.848	4.3	75	0.00
94 T	Hexachlorobutadiene	50.000	48.629	2.7	79	0.00
95 T	Naphthalene	50.000	46.711	6.6	70	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022929.D
Acq On : 03 Jul 2025 09:26
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 04 03:14:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	46.460	7.1	73	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



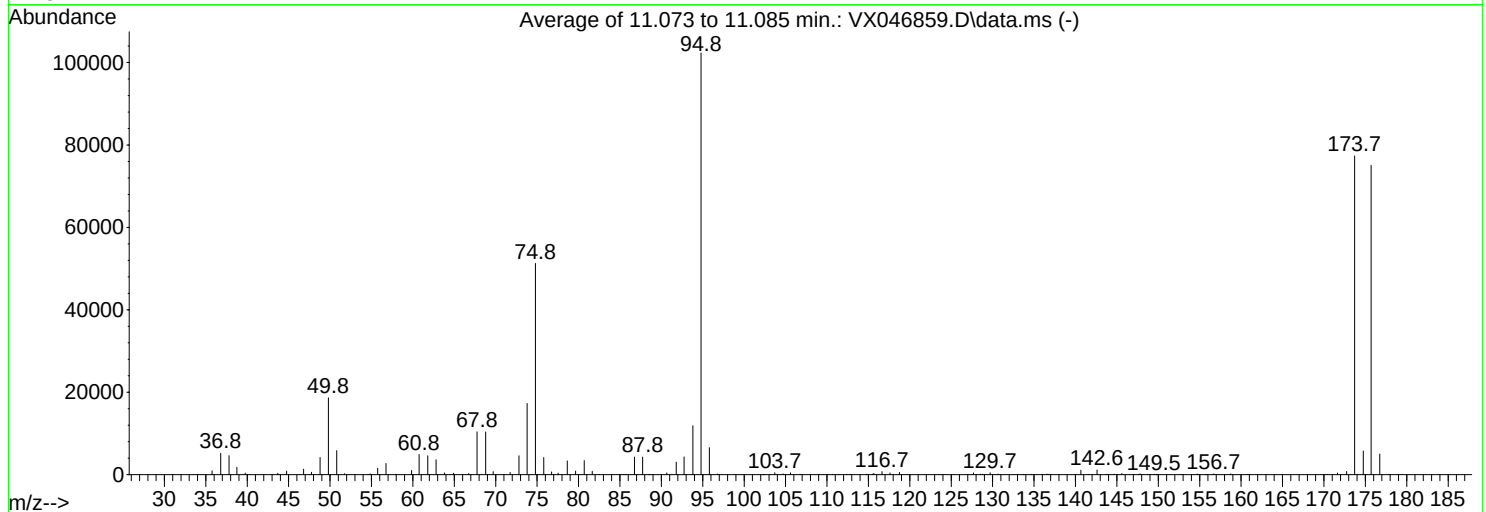
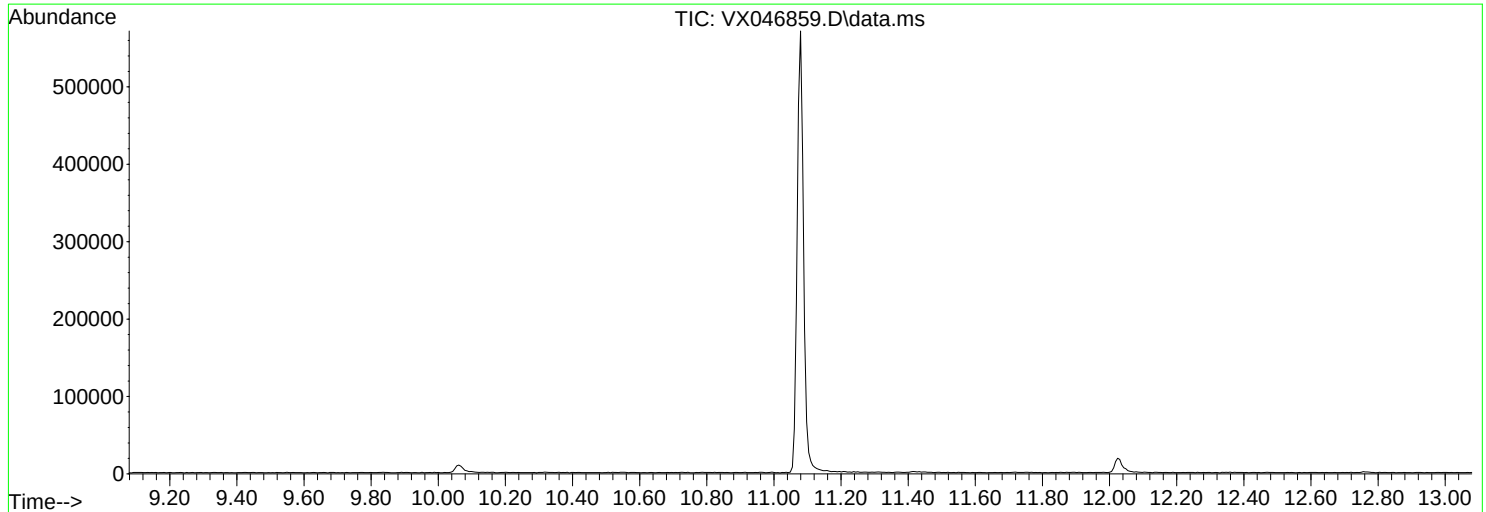
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046859.D
Acq On : 02 Jul 2025 11:12
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Title : SW846 8260
Last Update : Thu Jul 03 05:51:11 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

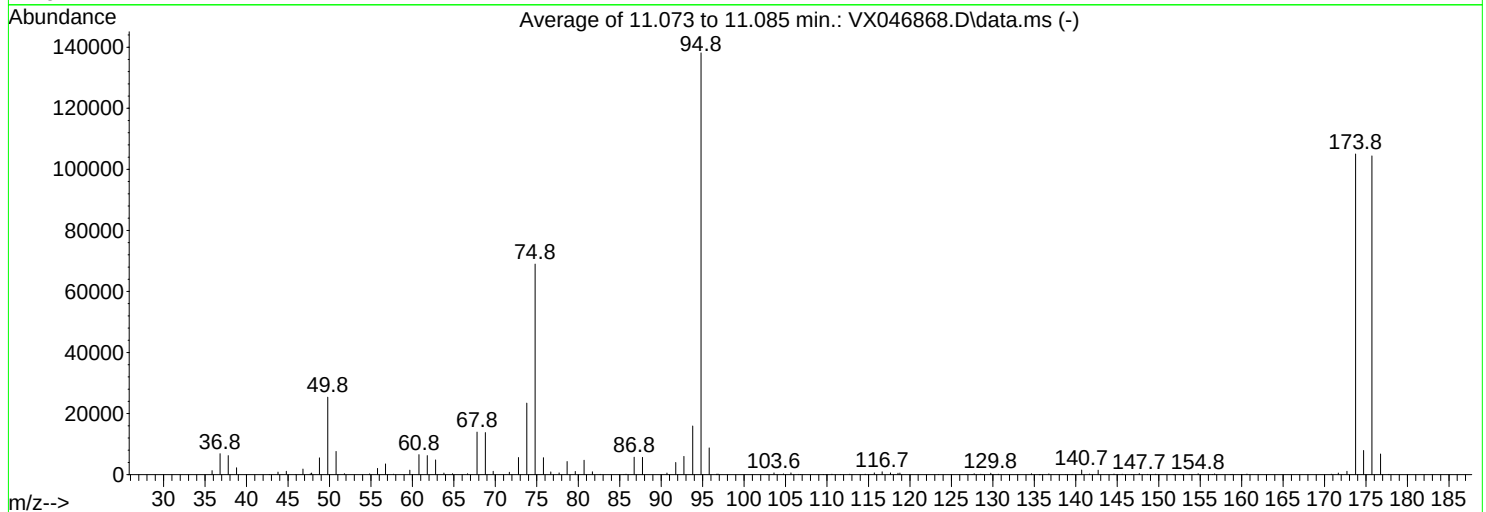
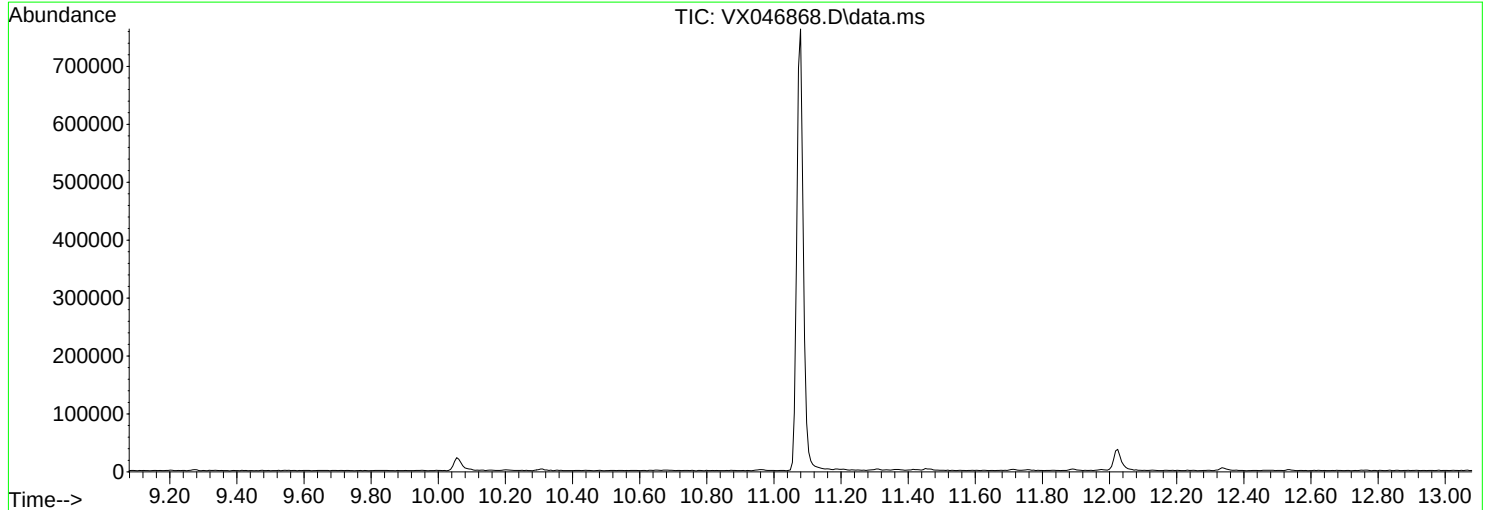
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	18657	PASS
75	95	30	60	50.1	51248	PASS
95	95	100	100	100.0	102357	PASS
96	95	5	9	6.4	6574	PASS
173	174	0.00	2	1.0	779	PASS
174	95	50	100	75.5	77328	PASS
175	174	5	9	7.4	5758	PASS
176	174	95	101	97.1	75051	PASS
177	176	5	9	6.7	5020	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046868.D
Acq On : 03 Jul 2025 07:52
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Title : SW846 8260
Last Update : Thu Jul 03 05:51:11 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

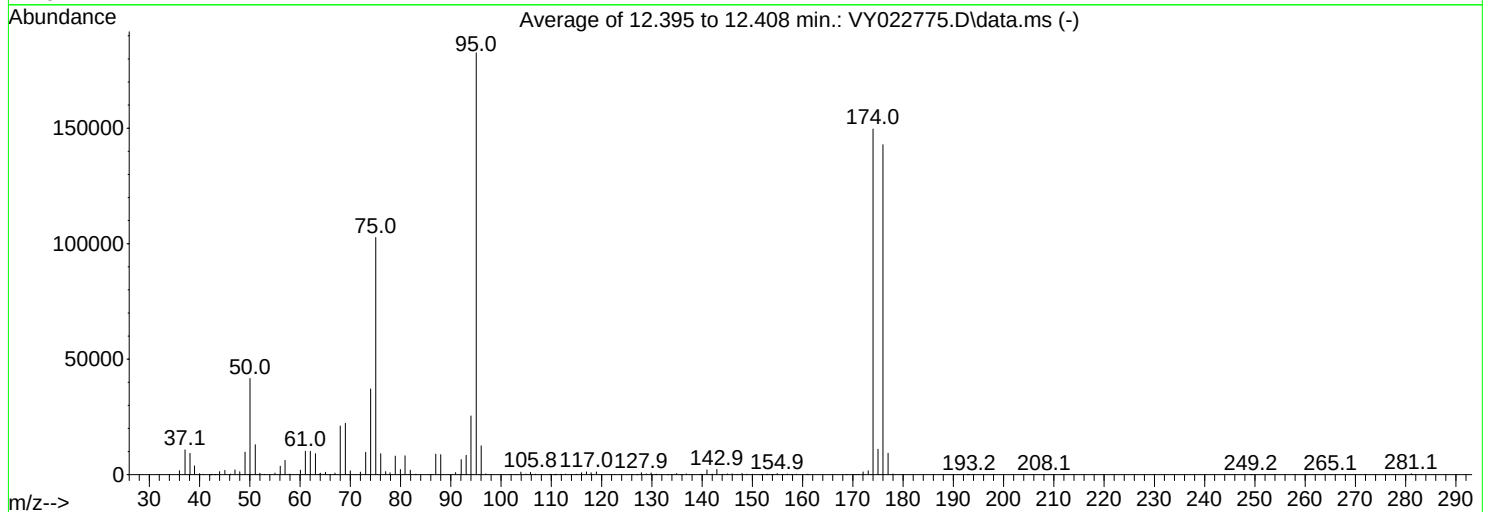
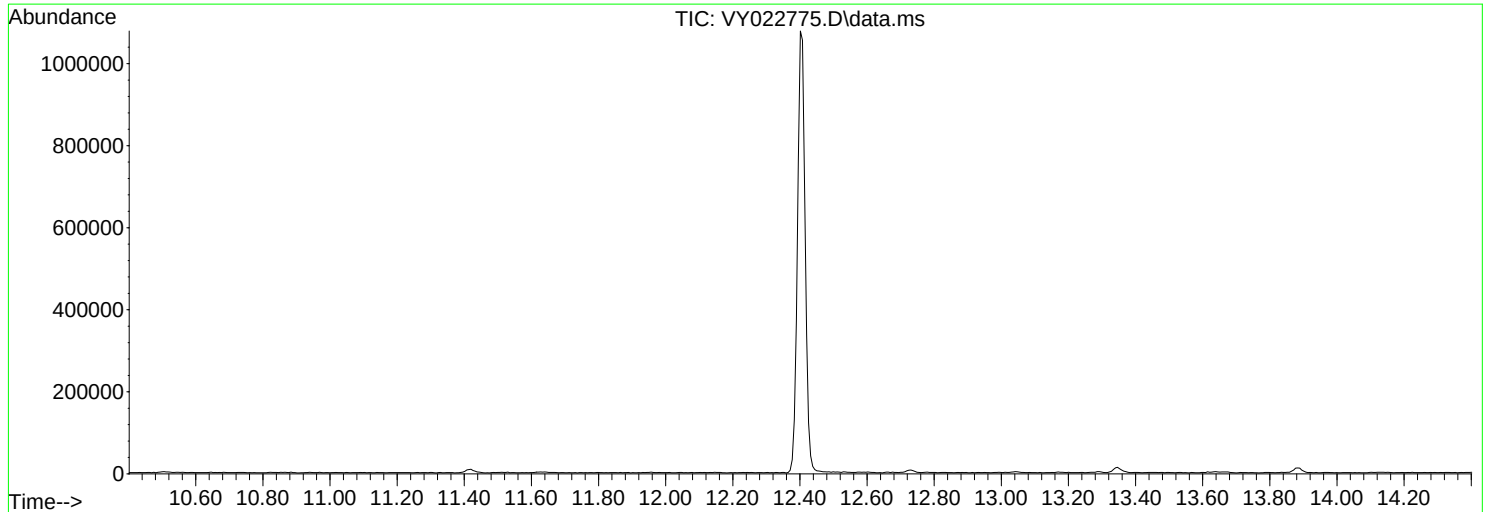
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	25355	PASS
75	95	30	60	49.9	68992	PASS
95	95	100	100	100.0	138160	PASS
96	95	5	9	6.3	8736	PASS
173	174	0.00	2	1.0	1090	PASS
174	95	50	100	76.0	105016	PASS
175	174	5	9	7.6	7936	PASS
176	174	95	101	99.4	104379	PASS
177	176	5	9	6.5	6758	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022775.D
Acq On : 23 Jun 2025 10:17
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Title : SW846 8260
Last Update : Tue Jun 24 08:29:52 2025



AutoFind: Scans 1751, 1752, 1753; Background Corrected with Scan 1743

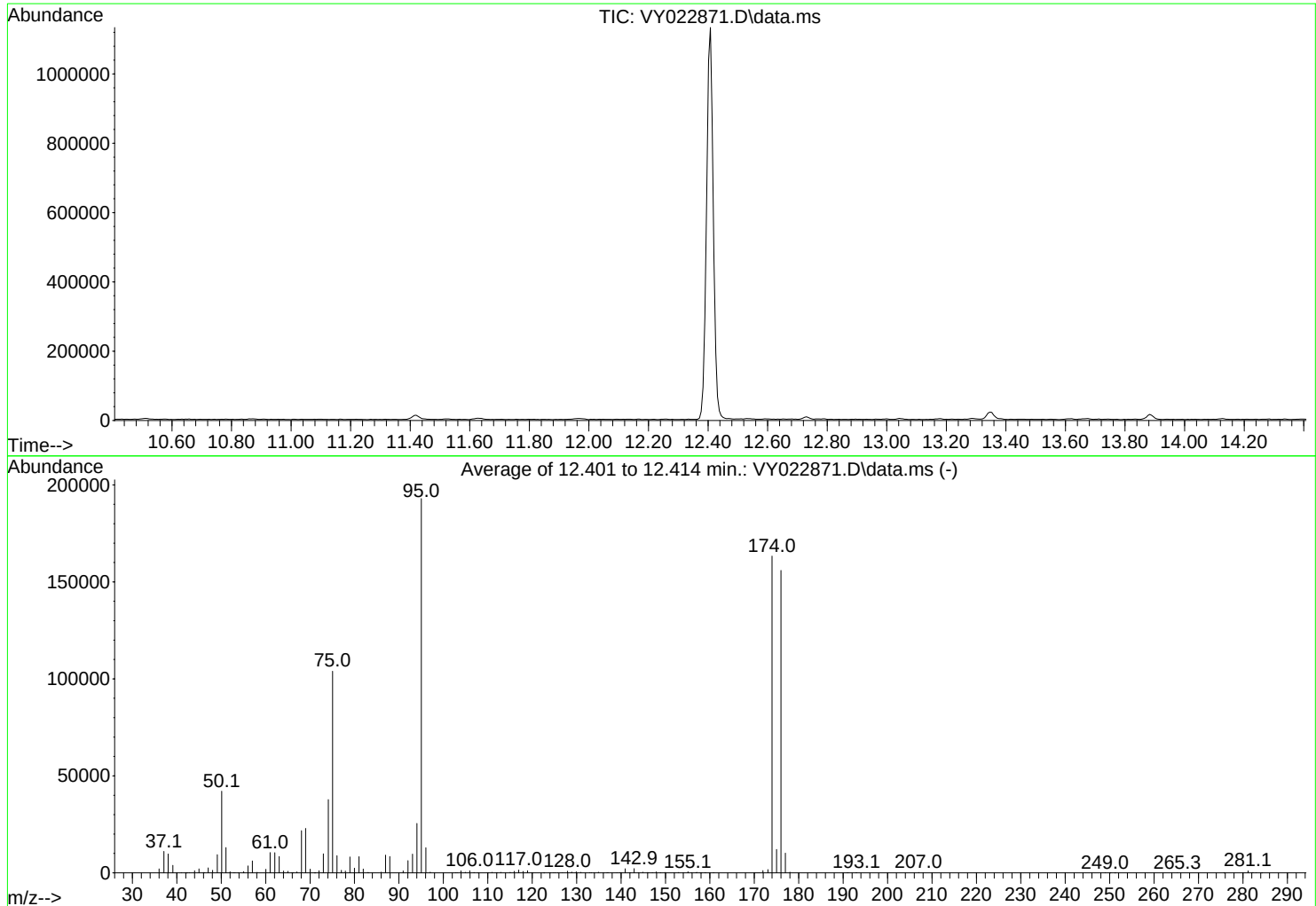
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	41667	PASS
75	95	30	60	56.2	102659	PASS
95	95	100	100	100.0	182635	PASS
96	95	5	9	6.8	12459	PASS
173	174	0.00	2	1.1	1700	PASS
174	95	50	100	81.9	149608	PASS
175	174	5	9	7.4	11034	PASS
176	174	95	101	95.5	142859	PASS
177	176	5	9	6.5	9270	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022871.D
Acq On : 30 Jun 2025 08:42
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Title : SW846 8260
Last Update : Tue Jun 24 08:29:52 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

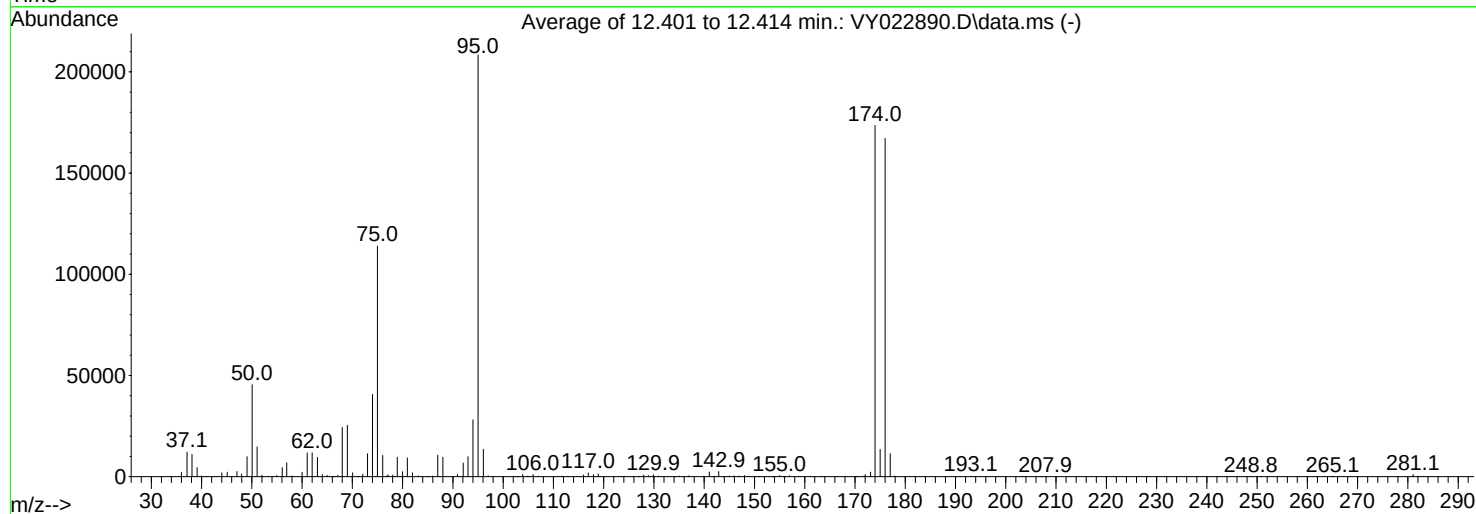
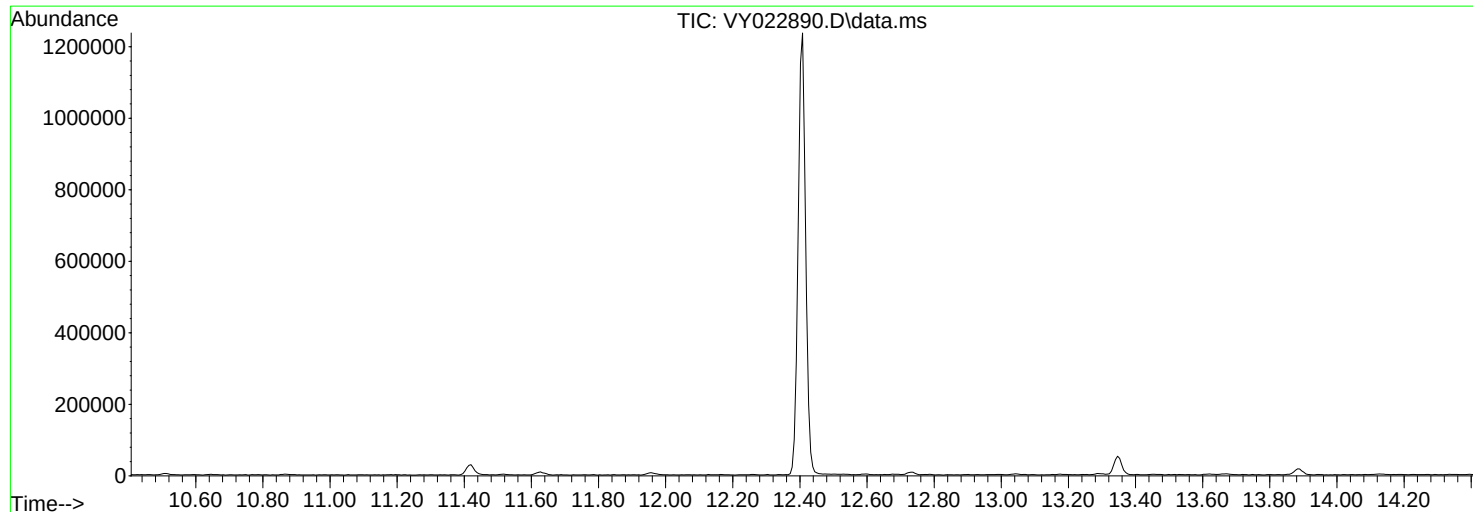
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	42065	PASS
75	95	30	60	53.9	103952	PASS
95	95	100	100	100.0	192960	PASS
96	95	5	9	6.7	12943	PASS
173	174	0.00	2	1.0	1712	PASS
174	95	50	100	84.6	163328	PASS
175	174	5	9	7.4	12062	PASS
176	174	95	101	95.5	155925	PASS
177	176	5	9	6.5	10196	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022890.D
Acq On : 01 Jul 2025 08:47
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Title : SW846 8260
Last Update : Tue Jun 24 08:29:52 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

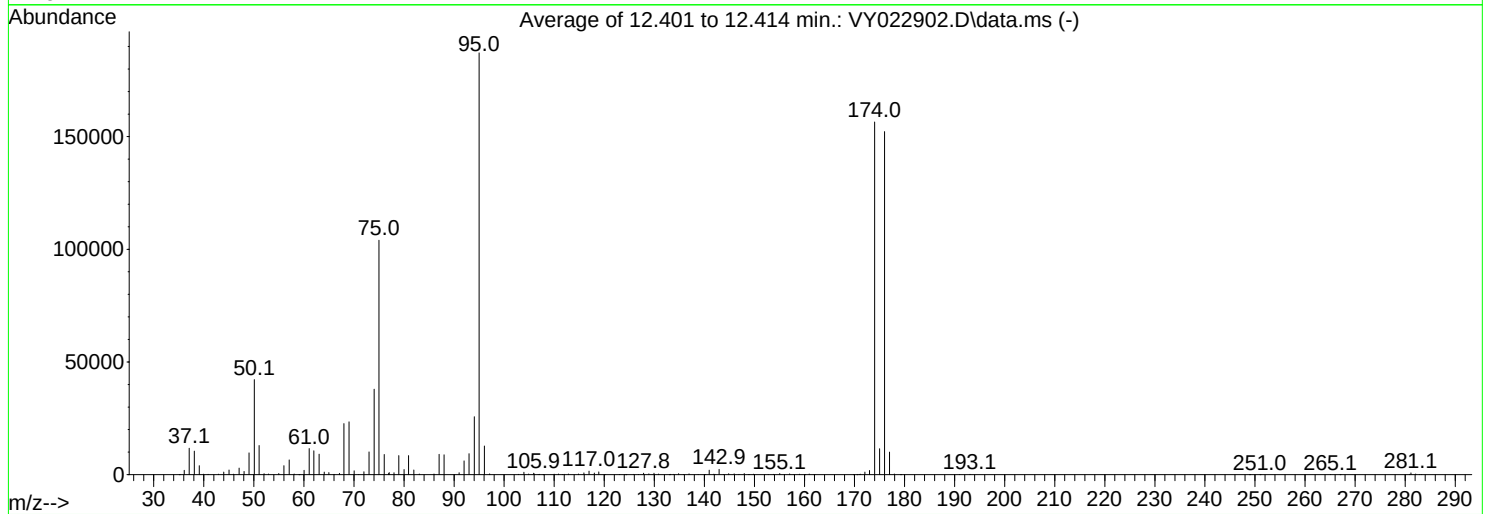
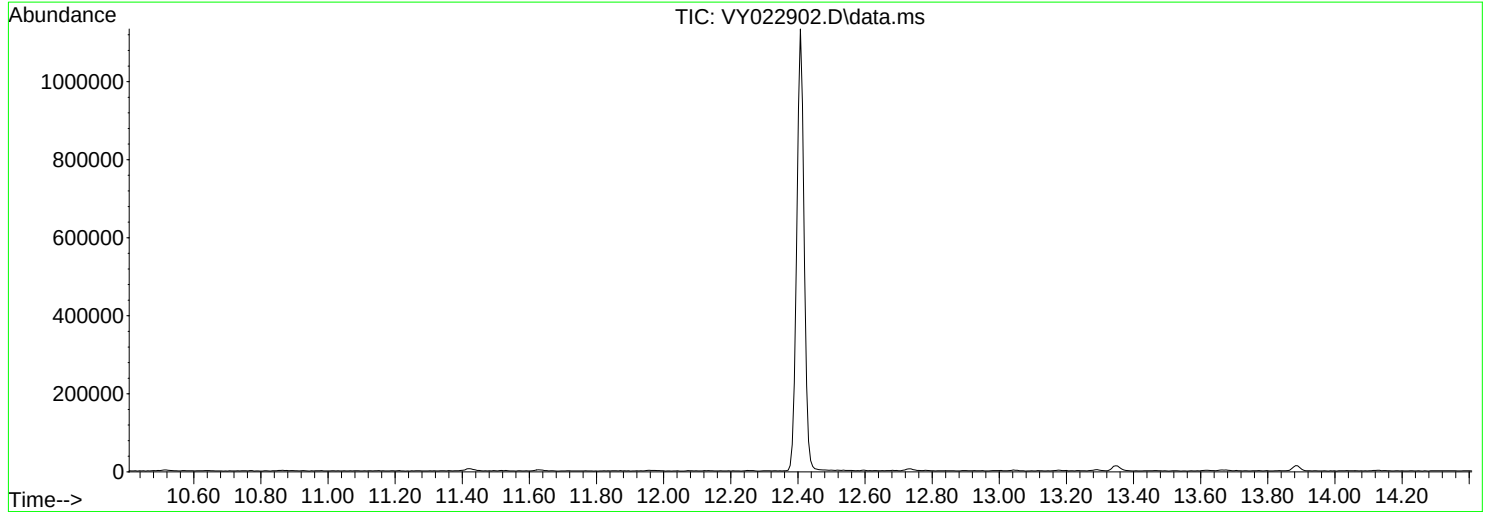
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	45461	PASS
75	95	30	60	54.7	113920	PASS
95	95	100	100	100.0	208405	PASS
96	95	5	9	6.5	13554	PASS
173	174	0.00	2	1.3	2202	PASS
174	95	50	100	83.3	173525	PASS
175	174	5	9	7.7	13418	PASS
176	174	95	101	96.3	167104	PASS
177	176	5	9	6.8	11381	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022902.D
Acq On : 02 Jul 2025 08:51
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Title : SW846 8260
Last Update : Tue Jun 24 08:29:52 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1742

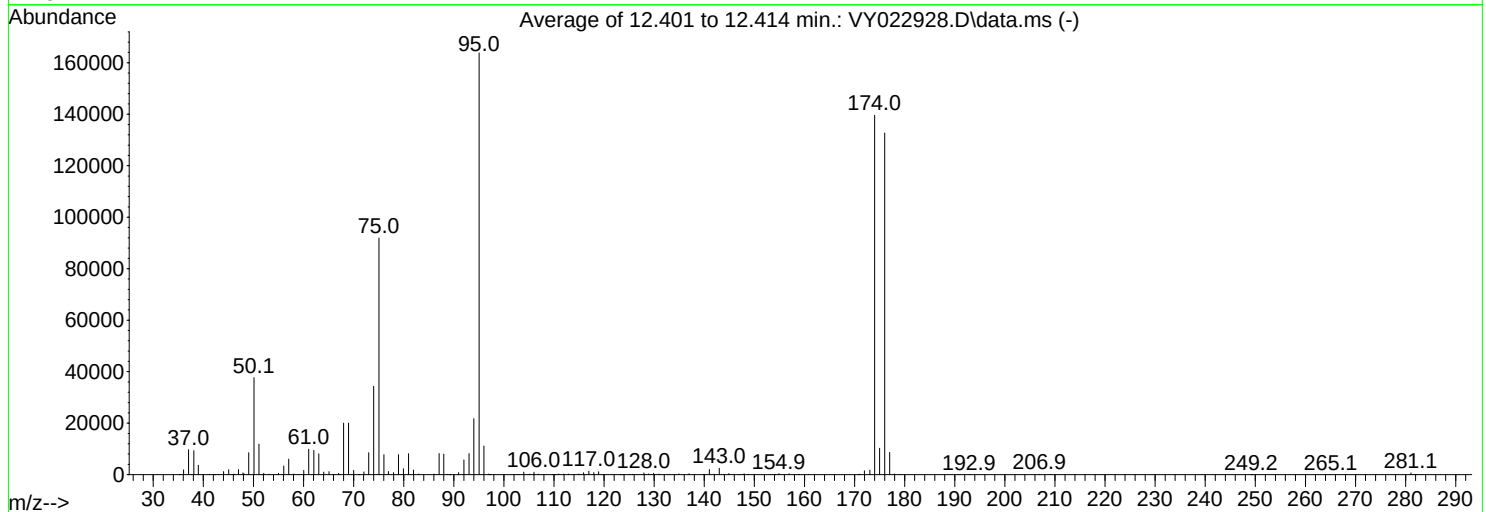
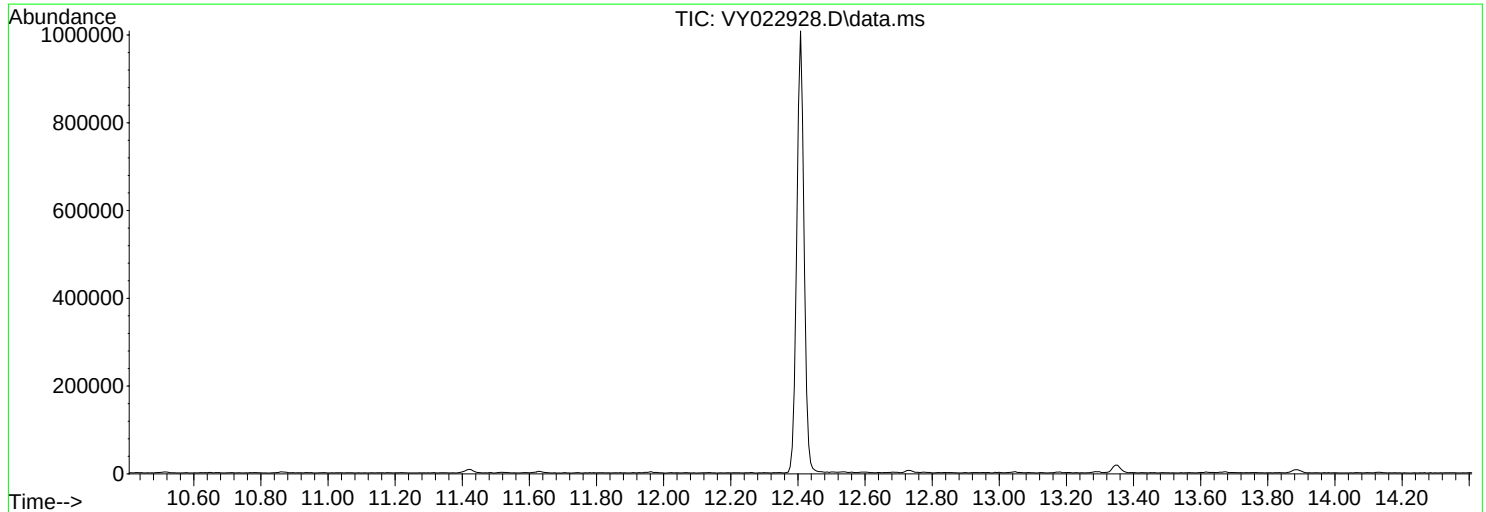
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	42181	PASS
75	95	30	60	55.6	103995	PASS
95	95	100	100	100.0	187179	PASS
96	95	5	9	6.8	12720	PASS
173	174	0.00	2	1.2	1816	PASS
174	95	50	100	83.6	156480	PASS
175	174	5	9	7.3	11484	PASS
176	174	95	101	97.3	152213	PASS
177	176	5	9	6.6	10021	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022928.D
Acq On : 03 Jul 2025 08:03
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Title : SW846 8260
Last Update : Tue Jun 24 08:29:52 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	23.0	37680	PASS
75	95	30	60	56.1	91939	PASS
95	95	100	100	100.0	163840	PASS
96	95	5	9	6.8	11141	PASS
173	174	0.00	2	1.3	1759	PASS
174	95	50	100	85.2	139597	PASS
175	174	5	9	7.3	10242	PASS
176	174	95	101	95.1	132707	PASS
177	176	5	9	6.5	8654	PASS

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBL01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046871.D	1	07/03/25 09:09	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBL01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046871.D	1	07/03/25 09:09	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	49.6		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	436000	5.556			
540-36-3	1,4-Difluorobenzene	753000	6.763			
3114-55-4	Chlorobenzene-d5	692000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	352000	12.018			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBL01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046871.D	1	07/03/25 09:09	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046871.D
 Acq On : 03 Jul 2025 09:09
 Operator : JC/MD
 Sample : VX0703WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0703WBL01

Quant Time: Jul 04 01:26:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	435949	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	752530	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	691838	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	351915	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	289406	50.250	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	100.500%
35) Dibromofluoromethane	5.391	113	248443	48.636	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.280%
50) Toluene-d8	8.647	98	893863	49.596	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.200%
62) 4-Bromofluorobenzene	11.079	95	346730	50.620	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.240%

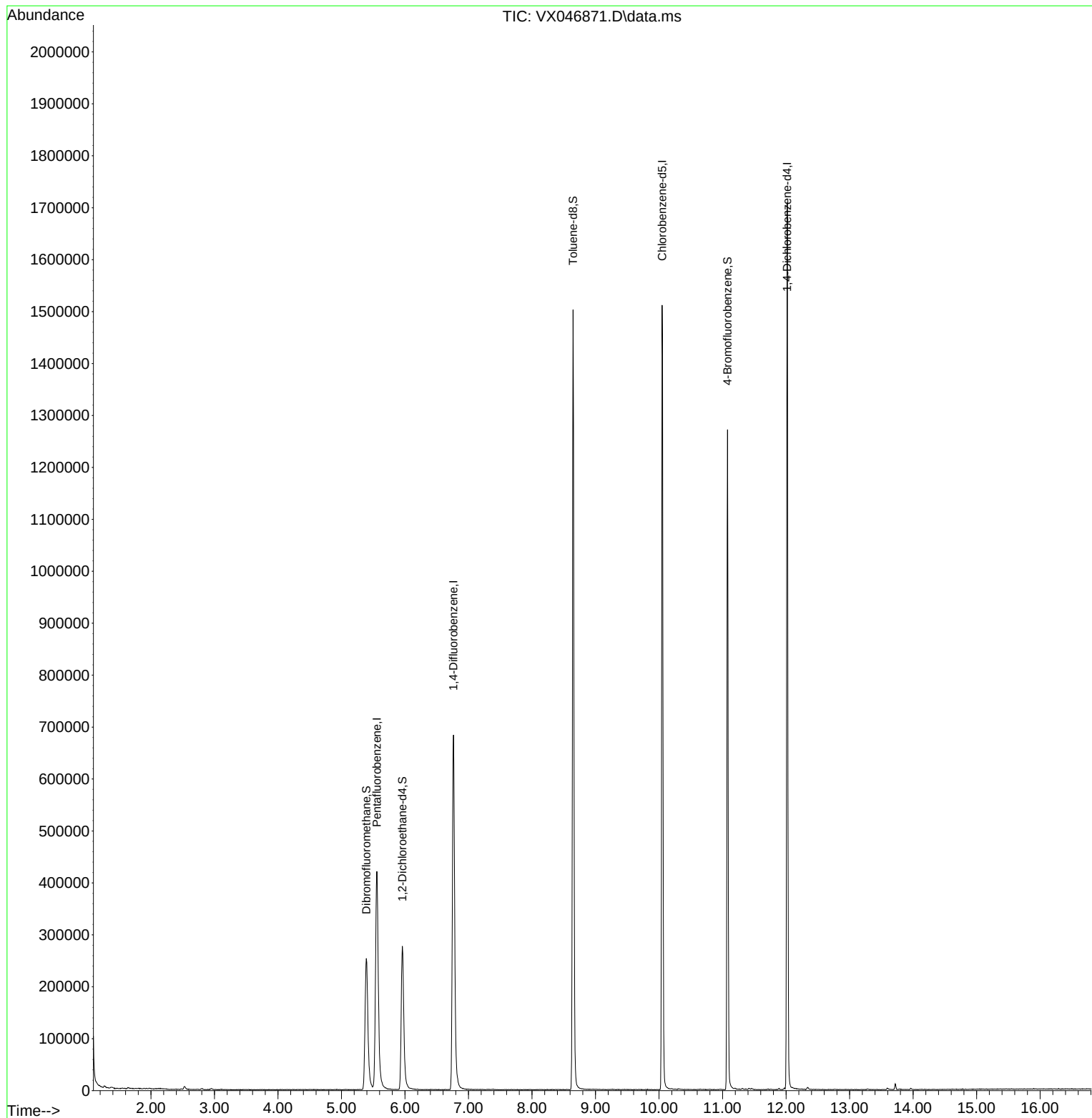
Target Compounds	Qvalue

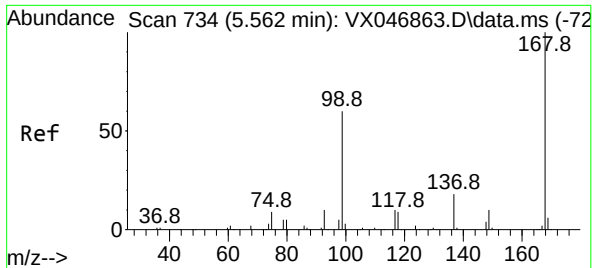
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046871.D
Acq On : 03 Jul 2025 09:09
Operator : JC/MD
Sample : VX0703WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0703WBL01

Quant Time: Jul 04 01:26:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

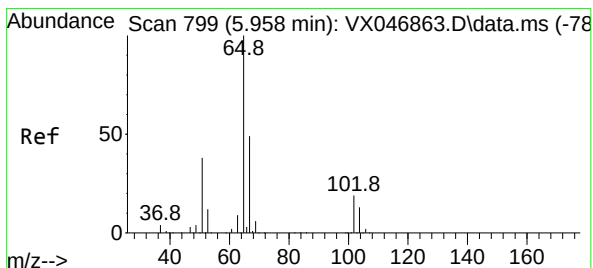
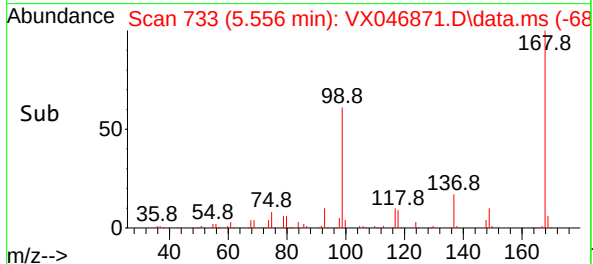
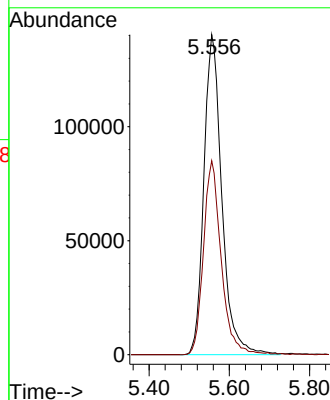
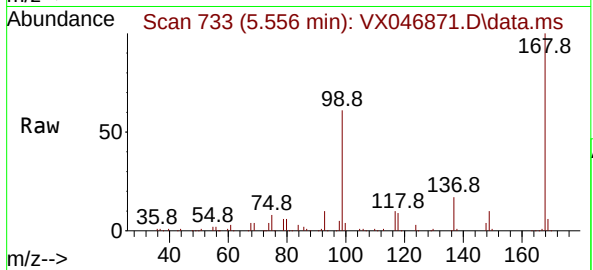




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 713
Delta R.T. -0.006 min
Lab File: VX046871.D
Acq: 03 Jul 2025 09:09

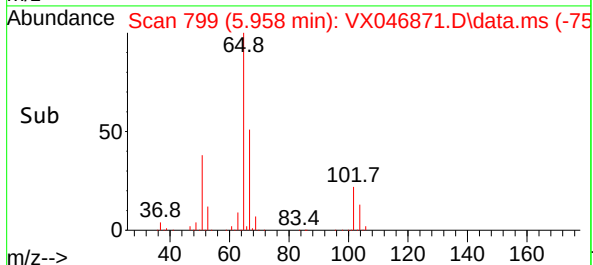
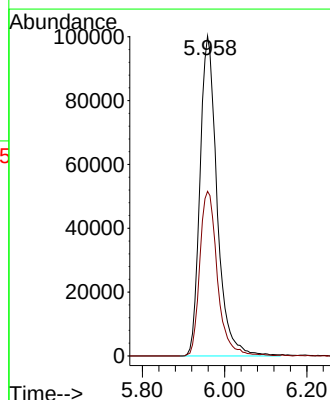
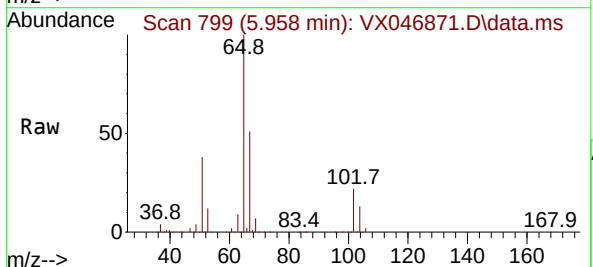
Instrument :
MSVOA_X
ClientSampleId :
VX0703WBL01

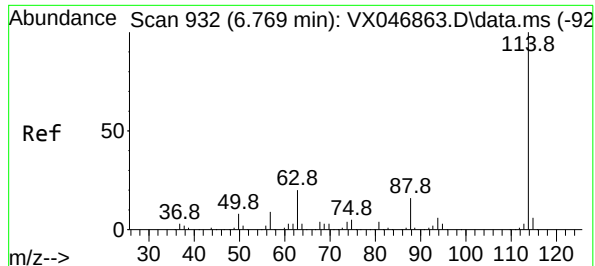
Tgt Ion:168 Resp: 435949
Ion Ratio Lower Upper
168 100
99 60.6 48.8 73.2



#33
1,2-Dichloroethane-d4
Concen: 50.250 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX046871.D
Acq: 03 Jul 2025 09:09

Tgt Ion: 65 Resp: 289406
Ion Ratio Lower Upper
65 100
67 53.1 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX046871.D

Acq: 03 Jul 2025 09:09

Instrument :

MSVOA_X

ClientSampleId :

VX0703WBL01

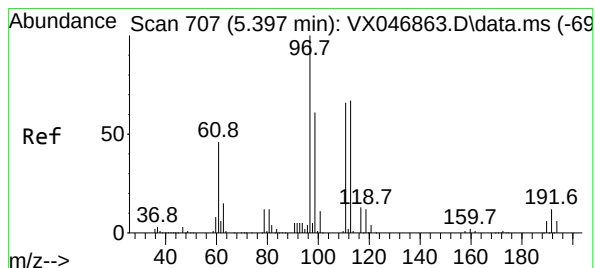
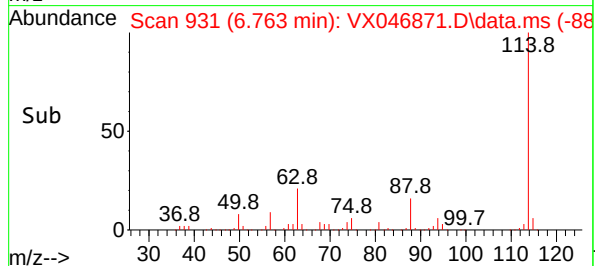
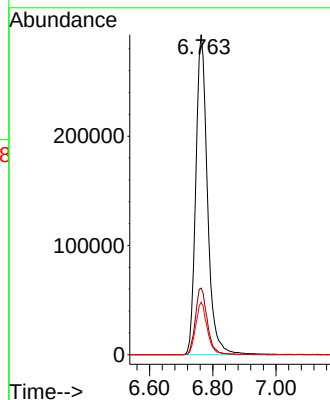
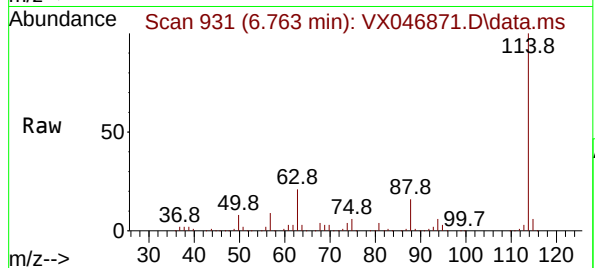
Tgt Ion:114 Resp: 752530

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.4

88 16.4 0.0 31.0



#35

Dibromofluoromethane

Concen: 48.636 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046871.D

Acq: 03 Jul 2025 09:09

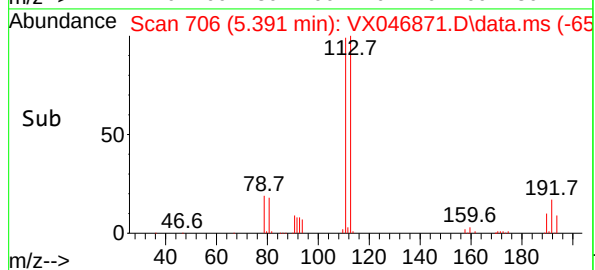
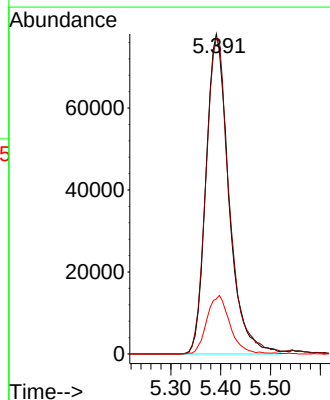
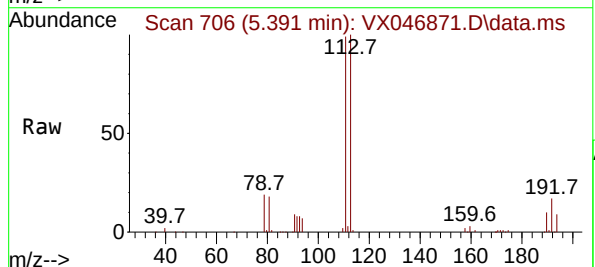
Tgt Ion:113 Resp: 248443

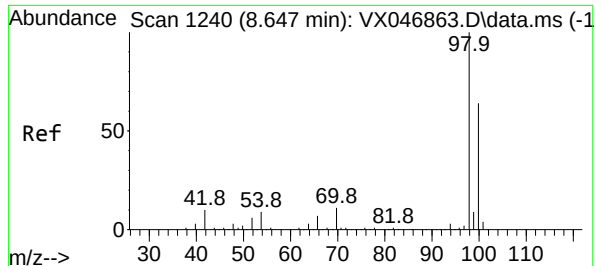
Ion Ratio Lower Upper

113 100

111 101.1 81.2 121.8

192 18.6 15.3 22.9





#50

Toluene-d8

Concen: 49.596 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046871.D

Acq: 03 Jul 2025 09:09

Instrument :

MSVOA_X

ClientSampleId :

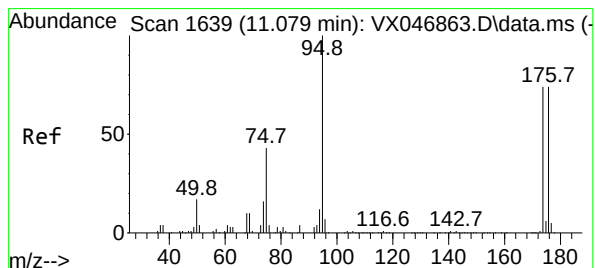
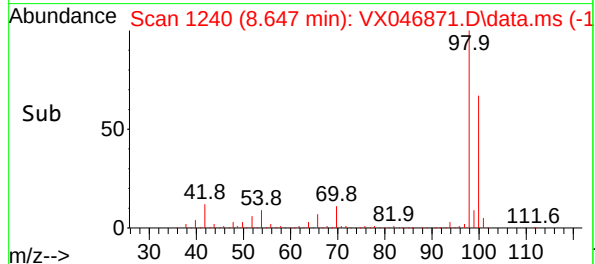
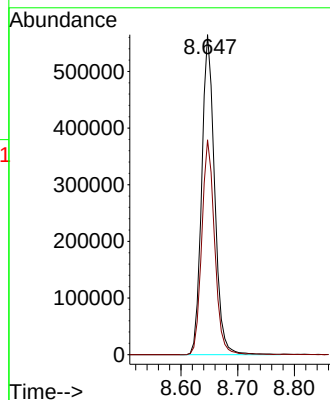
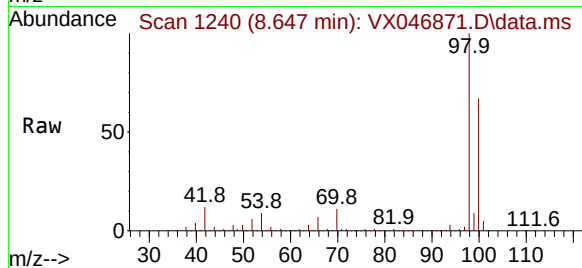
VX0703WBL01

Tgt Ion: 98 Resp: 893863

Ion Ratio Lower Upper

98 100

100 66.9 53.0 79.6



#62

4-Bromofluorobenzene

Concen: 50.620 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046871.D

Acq: 03 Jul 2025 09:09

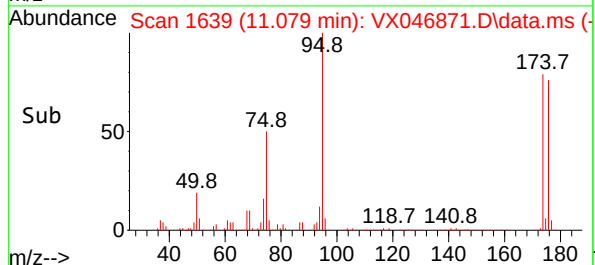
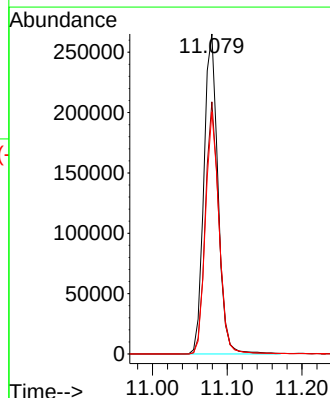
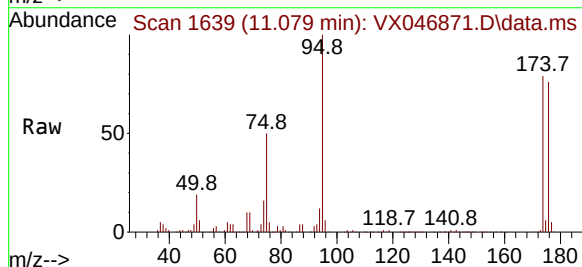
Tgt Ion: 95 Resp: 346730

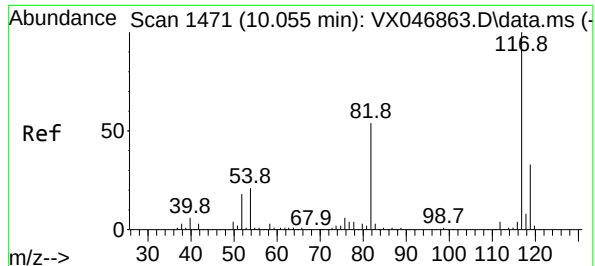
Ion Ratio Lower Upper

95 100

174 76.3 0.0 152.0

176 73.3 0.0 145.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1471

Delta R.T. -0.006 min

Lab File: VX046871.D

Acq: 03 Jul 2025 09:09

Instrument :

MSVOA_X

ClientSampleId :

VX0703WBL01

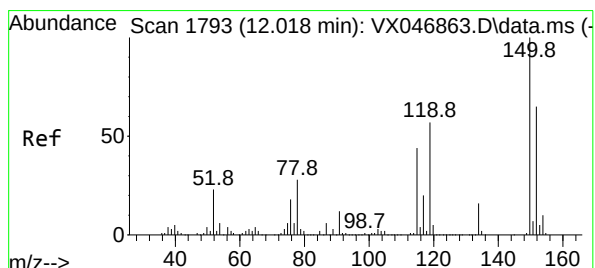
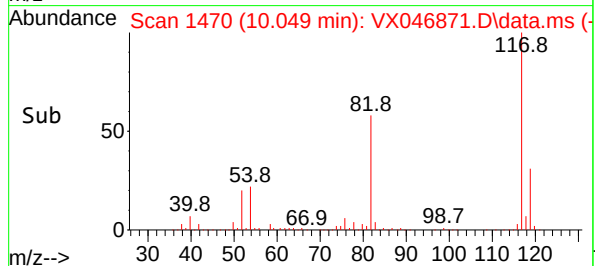
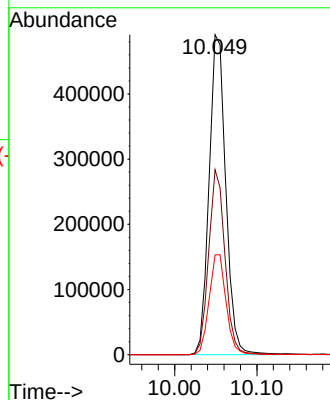
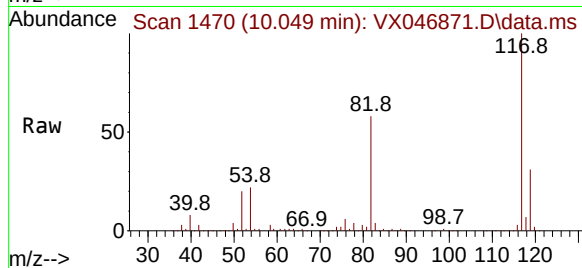
Tgt Ion:117 Resp: 691838

Ion Ratio Lower Upper

117 100

82 57.8 43.3 64.9

119 31.1 26.4 39.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX046871.D

Acq: 03 Jul 2025 09:09

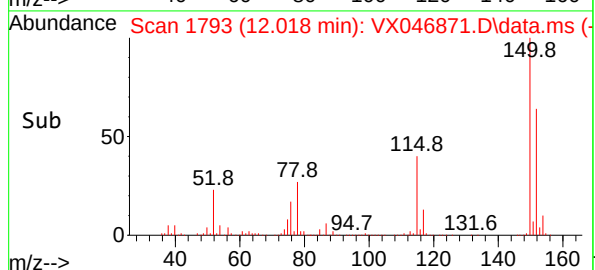
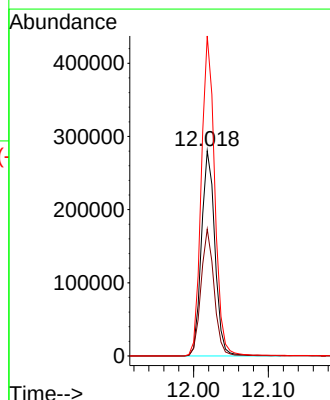
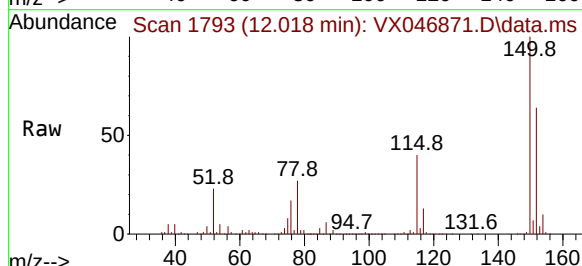
Tgt Ion:152 Resp: 351915

Ion Ratio Lower Upper

152 100

115 60.5 42.4 127.1

150 155.3 0.0 349.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046871.D
Acq On : 03 Jul 2025 09:09
Operator : JC/MD
Sample : VX0703WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0703WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M

Title : SW846 8260

Signal : TIC: VX046871.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.391	693	706	722	rBV3	252459	806462	33.72%	6.238%
2	5.556	722	733	755	rVB	417520	1288634	53.88%	9.968%
3	5.958	789	799	821	rBV	275779	796159	33.29%	6.159%
4	6.763	921	931	955	rBV	682915	1758304	73.51%	13.601%
5	8.647	1234	1240	1263	rBV	1501135	2391896	100.00%	18.503%
6	10.049	1465	1470	1488	rBV	1509598	2122659	88.74%	16.420%
7	11.079	1633	1639	1655	rBV	1270871	1647557	68.88%	12.745%
8	12.018	1788	1793	1805	rBV	1706389	2115618	88.45%	16.366%

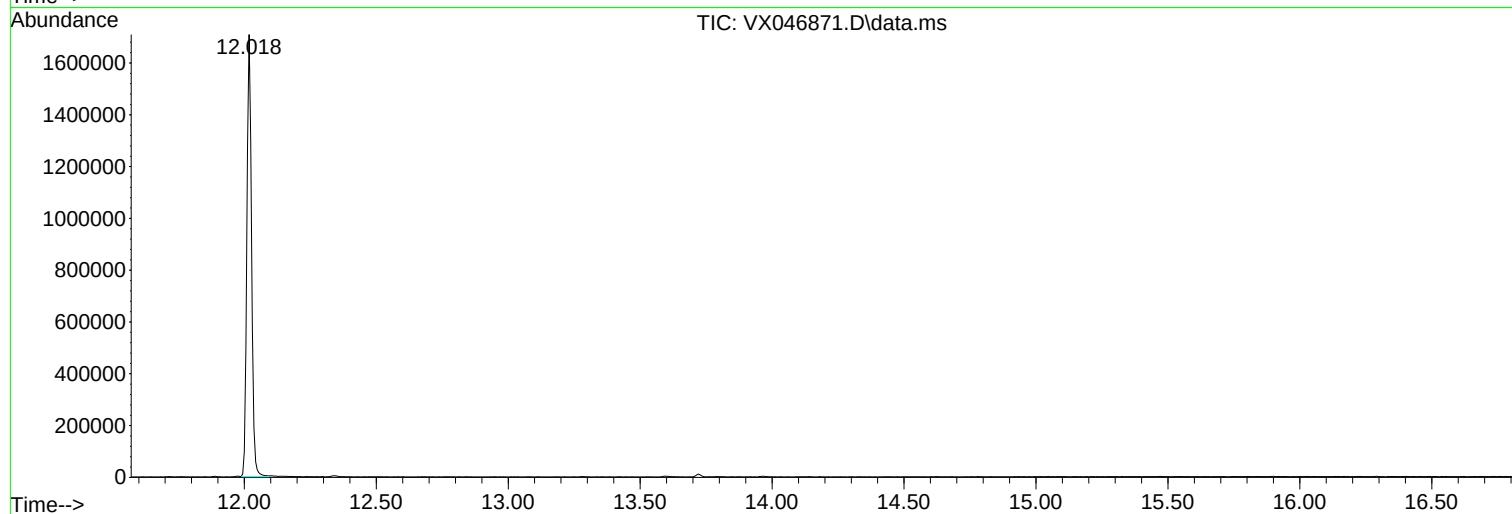
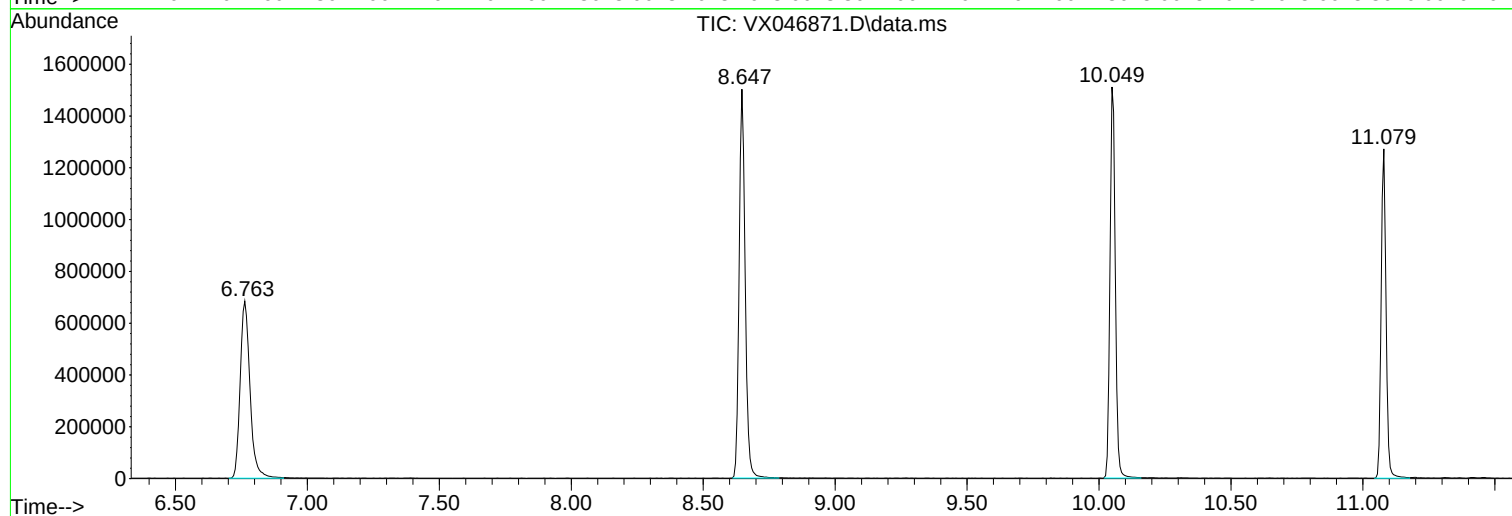
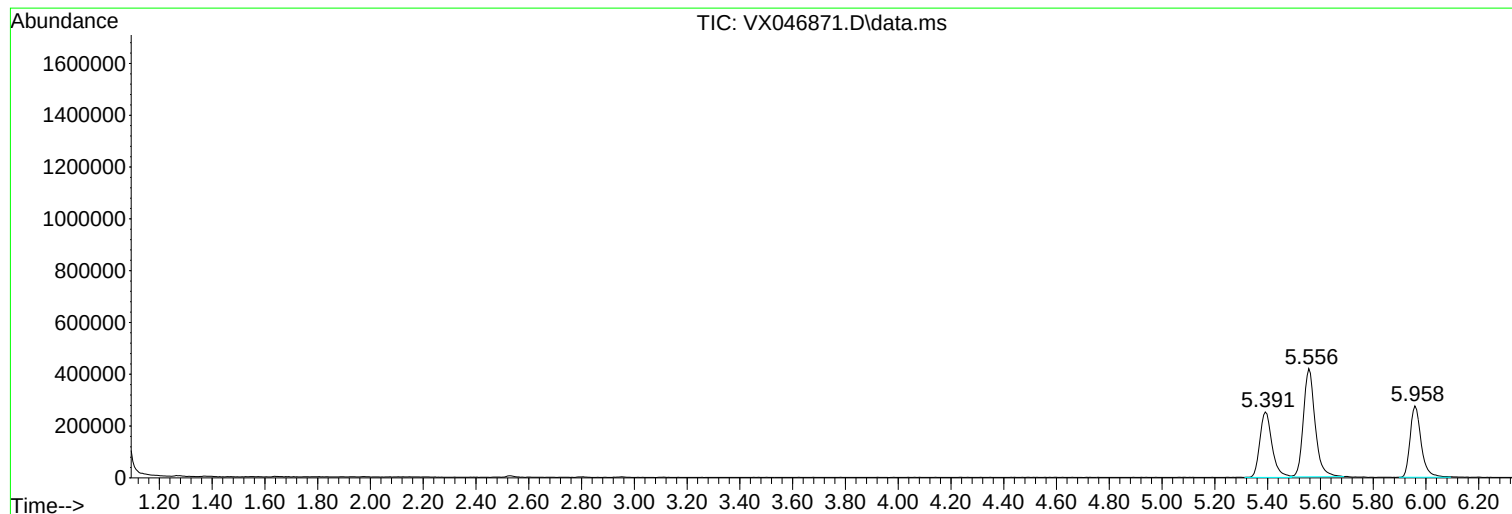
Sum of corrected areas: 12927289

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046871.D
Acq On : 03 Jul 2025 09:09
Operator : JC/MD
Sample : VX0703WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0703WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046871.D
Acq On : 03 Jul 2025 09:09
Operator : JC/MD
Sample : VX0703WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0703WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046871.D
Acq On : 03 Jul 2025 09:09
Operator : JC/MD
Sample : VX0703WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0703WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
	ID :	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022873.D	1	06/30/25 11:39	VY063025

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

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0630SBL01		SDG No.:	Q2458
Lab Sample ID:	VY0630SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022873.D	1	06/30/25 11:39	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.2		63 - 155	88%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		17 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	371000	7.707			
540-36-3	1,4-Difluorobenzene	672000	8.615			
3114-55-4	Chlorobenzene-d5	636000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	275000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
	ID :	Test:	VOC-TCLVOA-10
	0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022873.D	1	06/30/25 11:39	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022873.D
Acq On : 30 Jun 2025 11:39
Operator : SY/MD
Sample : VY0630SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBL01

Quant Time: Jul 01 03:34:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	371114	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	672085	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	635637	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	274914	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	182916	44.161	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	88.320%
35) Dibromofluoromethane	7.634	113	204913	50.134	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.260%
50) Toluene-d8	10.103	98	799901	49.319	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.640%
62) 4-Bromofluorobenzene	12.401	95	282612	54.204	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	108.400%

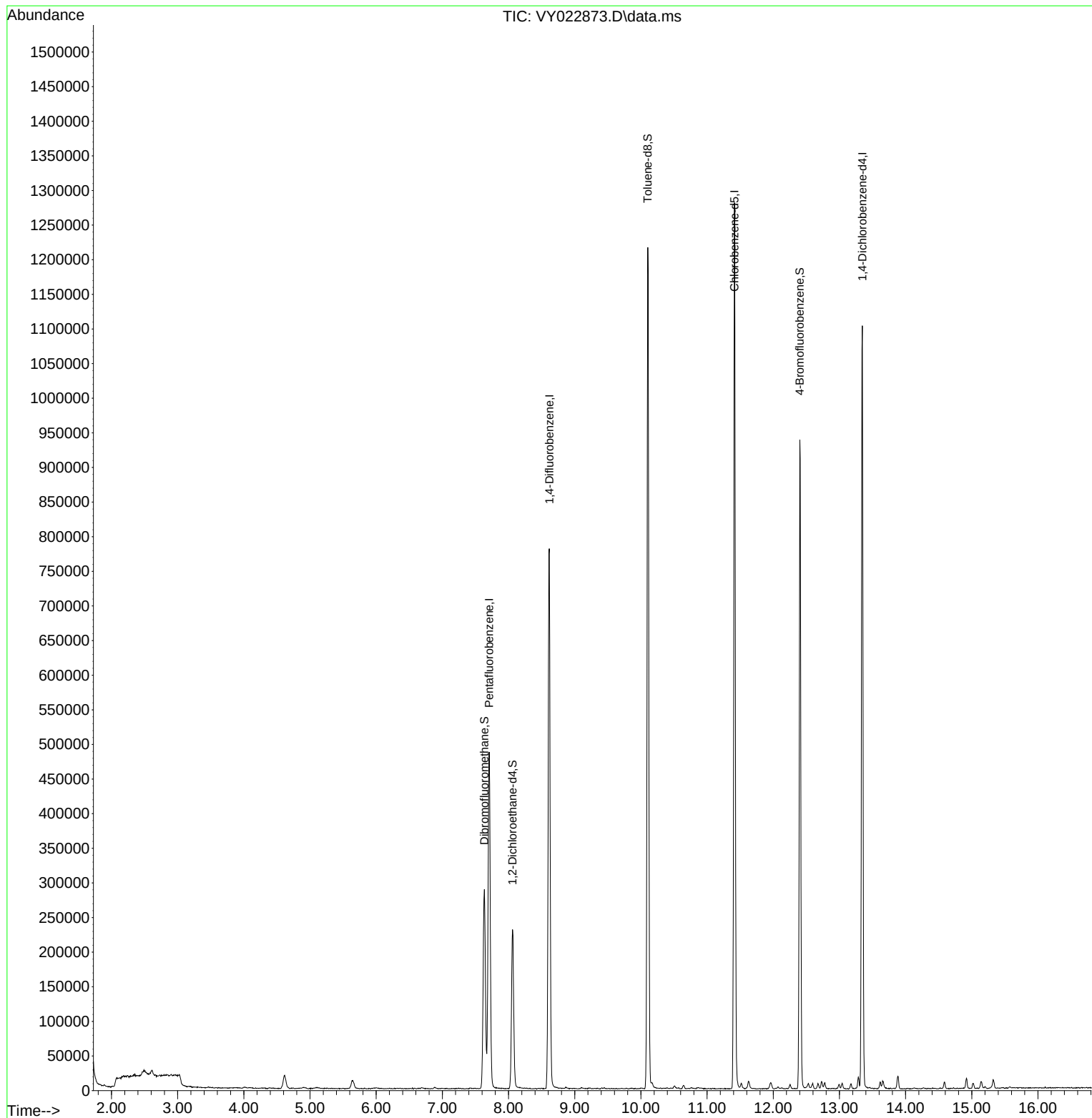
Target Compounds	Qvalue

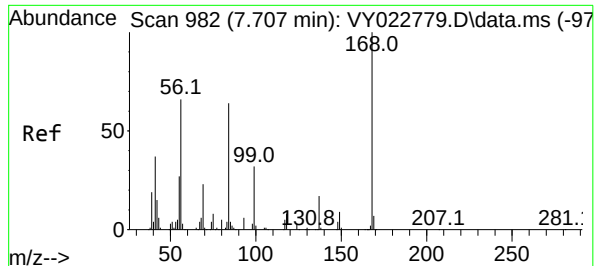
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022873.D
Acq On : 30 Jun 2025 11:39
Operator : SY/MD
Sample : VY0630SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBL01

Quant Time: Jul 01 03:34:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

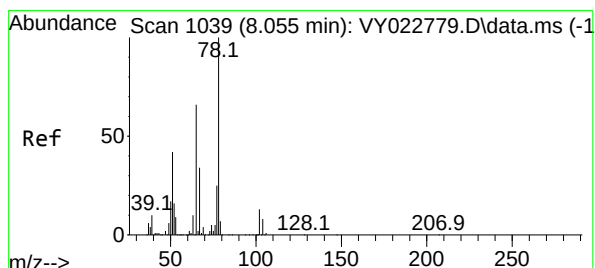
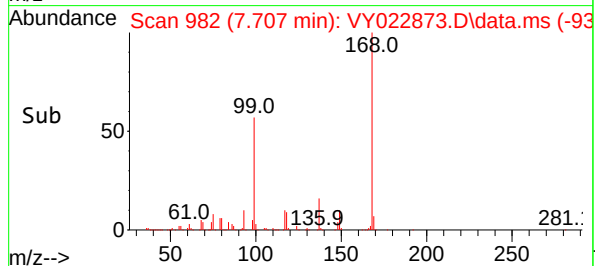
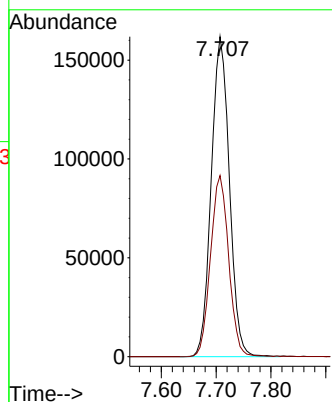
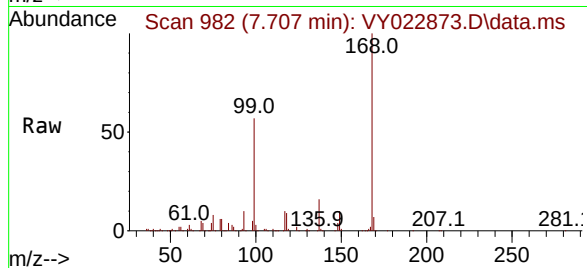




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

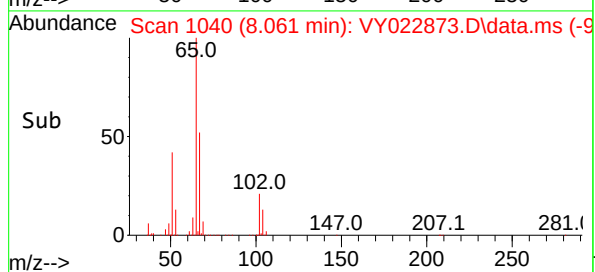
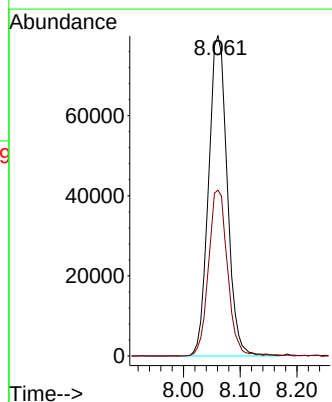
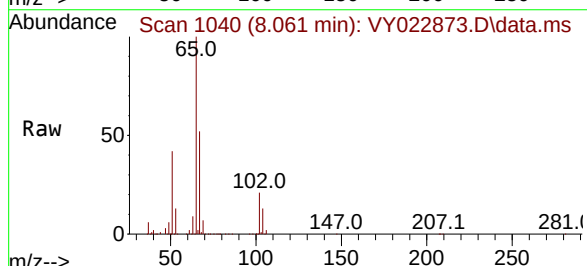
Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBL01

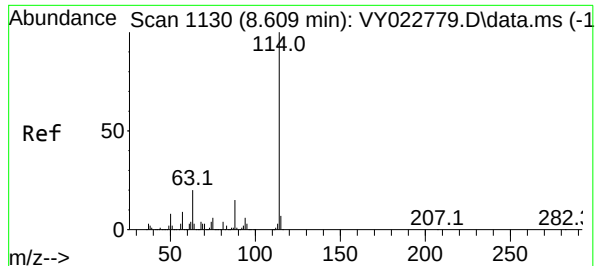
Tgt Ion:168 Resp: 371114
Ion Ratio Lower Upper
168 100
99 56.6 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 44.161 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

Tgt Ion: 65 Resp: 182916
Ion Ratio Lower Upper
65 100
67 52.4 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022873.D

Acq: 30 Jun 2025 11:39

Instrument :

MSVOA_Y

ClientSampleId :

VY0630SBL01

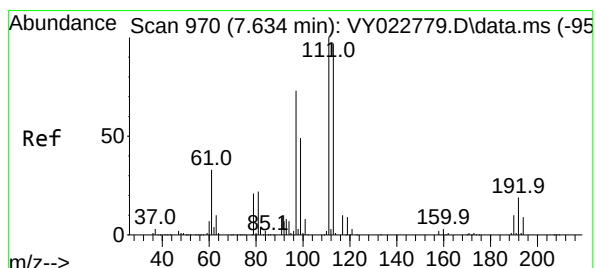
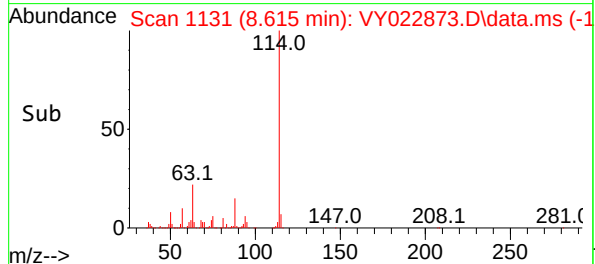
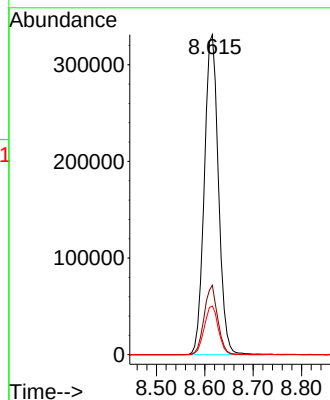
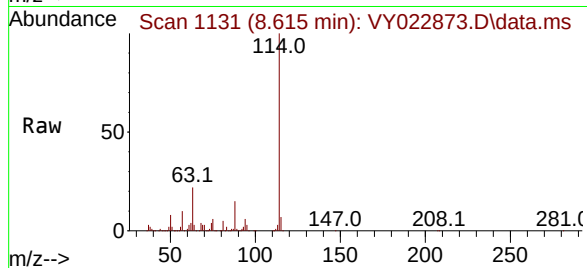
Tgt Ion:114 Resp: 672085

Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.8

88 15.2 0.0 27.8



#35

Dibromofluoromethane

Concen: 50.134 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022873.D

Acq: 30 Jun 2025 11:39

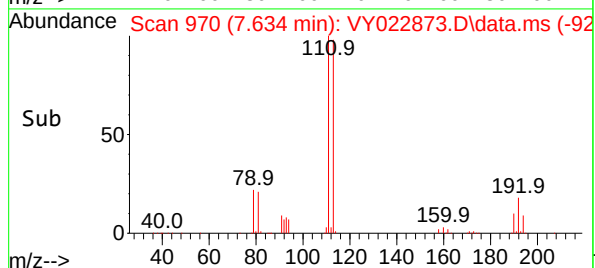
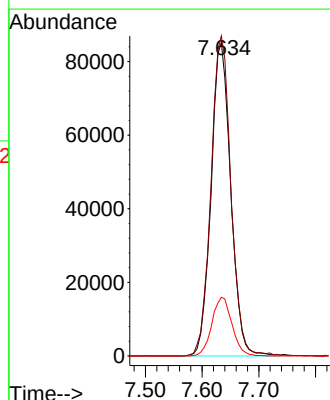
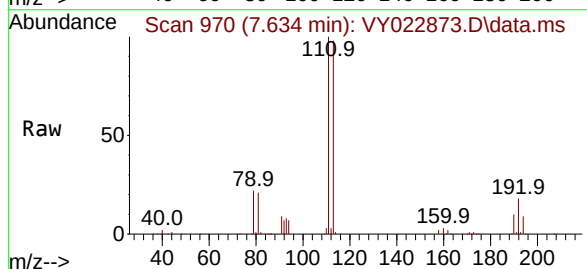
Tgt Ion:113 Resp: 204913

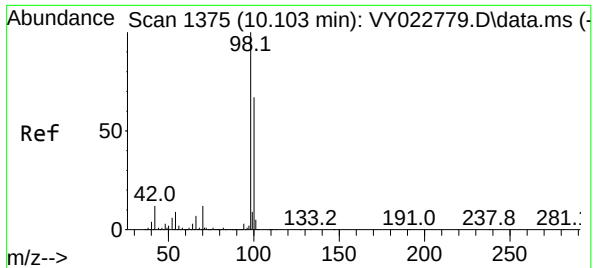
Ion Ratio Lower Upper

113 100

111 103.7 81.1 121.7

192 19.1 14.2 21.2

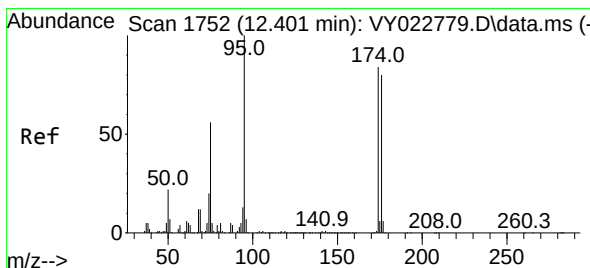
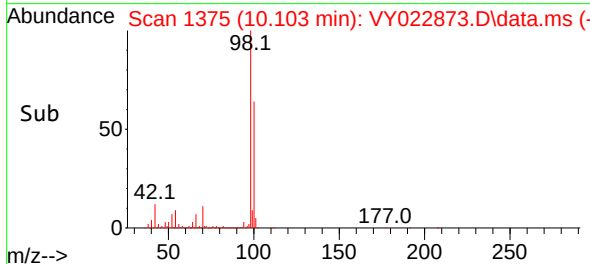
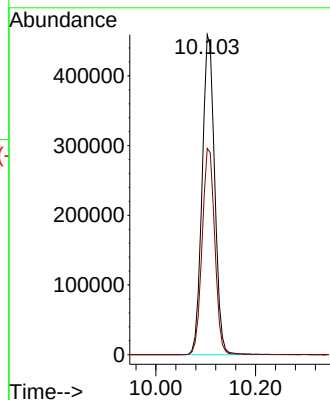
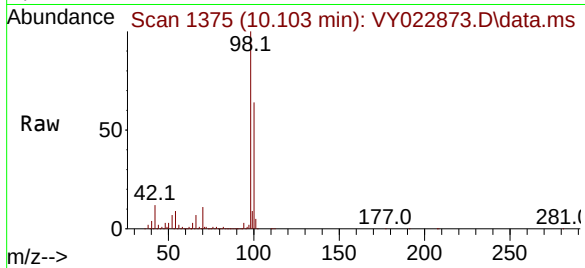




#50
Toluene-d8
Concen: 49.319 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

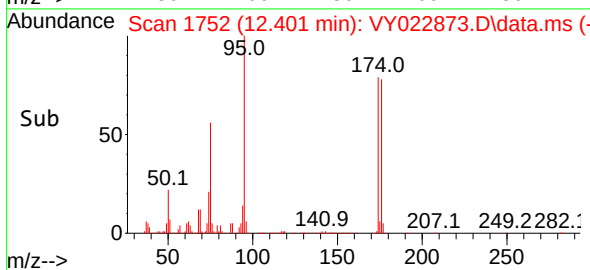
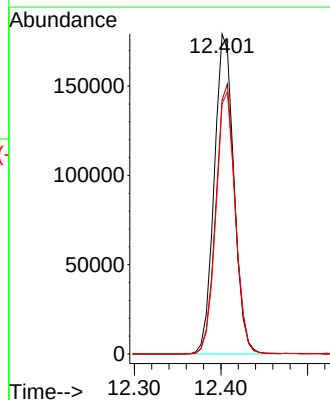
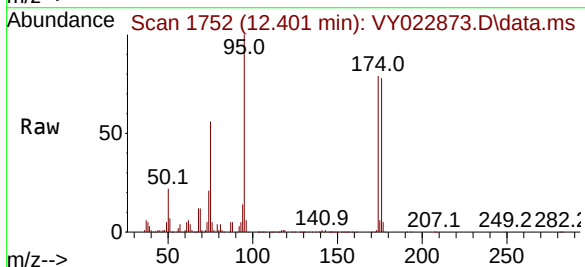
Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBL01

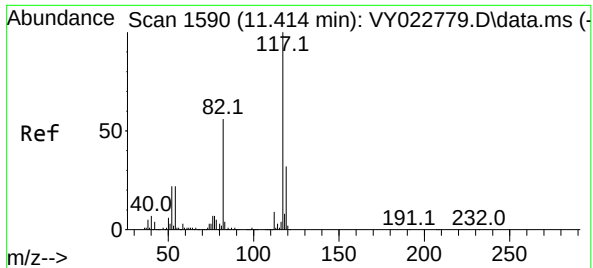
Tgt Ion: 98 Resp: 799901
Ion Ratio Lower Upper
98 100
100 65.1 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 54.204 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

Tgt Ion: 95 Resp: 282612
Ion Ratio Lower Upper
95 100
174 83.1 0.0 170.0
176 80.8 0.0 166.2

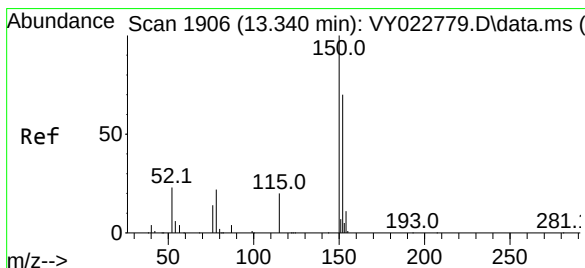
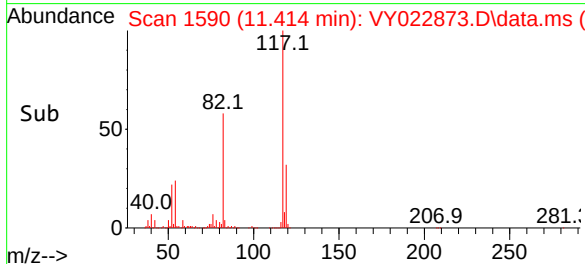
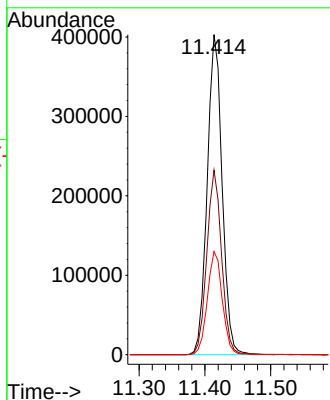
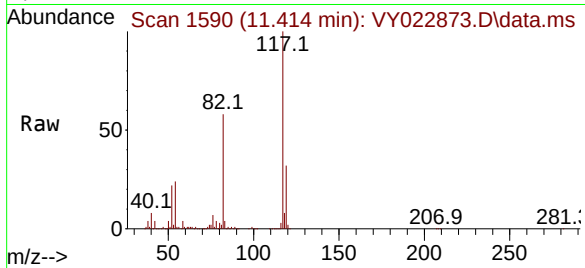




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

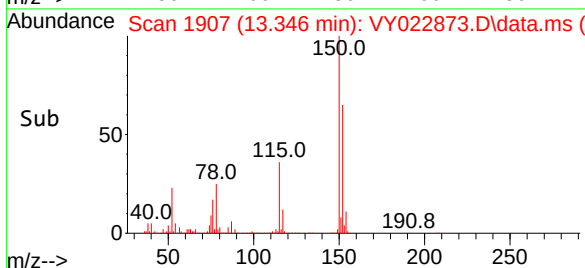
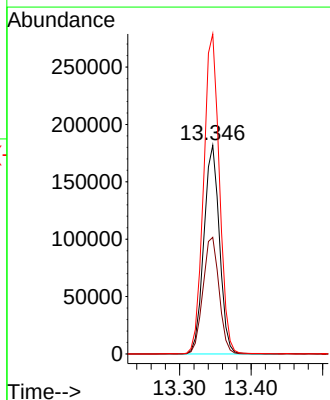
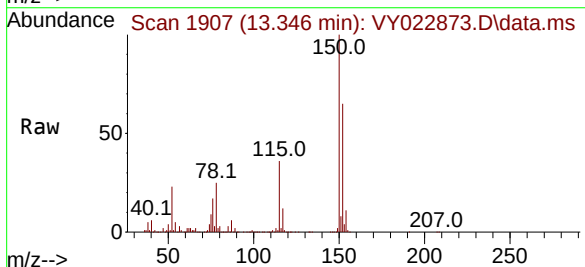
Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBL01

Tgt Ion:117 Resp: 635637
Ion Ratio Lower Upper
117 100
82 57.7 44.6 66.8
119 32.2 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

Tgt Ion:152 Resp: 274914
Ion Ratio Lower Upper
152 100
115 58.1 28.9 86.7
150 155.5 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022873.D
 Acq On : 30 Jun 2025 11:39
 Operator : SY/MD
 Sample : VY0630SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0630SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Title : SW846 8260

Signal : TIC: VY022873.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	52	59	60	rBV5	12588	23107	1.08%	0.199%
2	4.616	463	475	488	rVB3	19433	60895	2.85%	0.525%
3	5.634	635	642	651	rBV4	11151	32778	1.53%	0.283%
4	7.634	959	970	976	rBV	288000	696359	32.57%	6.005%
5	7.707	976	982	996	rVB	485067	1112201	52.03%	9.591%
6	8.061	1031	1040	1053	rBV2	229925	530748	24.83%	4.577%
7	8.615	1123	1131	1145	rBV	779528	1585172	74.15%	13.670%
8	10.103	1367	1375	1383	rBV	1215336	2137753	100.00%	18.435%
9	11.414	1581	1590	1602	rBV	1279647	2031642	95.04%	17.520%
10	11.627	1615	1625	1633	rBV3	10947	24442	1.14%	0.211%
11	11.962	1670	1680	1688	rBV6	9251	22092	1.03%	0.191%
12	12.401	1745	1752	1763	rBV	937050	1503838	70.35%	12.969%
13	13.285	1892	1897	1900	rBV5	15901	24124	1.13%	0.208%
14	13.346	1900	1907	1917	rVB	1100218	1732468	81.04%	14.940%
15	13.883	1987	1995	2002	rVB2	18308	33770	1.58%	0.291%
16	14.919	2159	2165	2170	rVB3	14477	22251	1.04%	0.192%
17	15.322	2223	2231	2236	rBV5	12106	22438	1.05%	0.193%

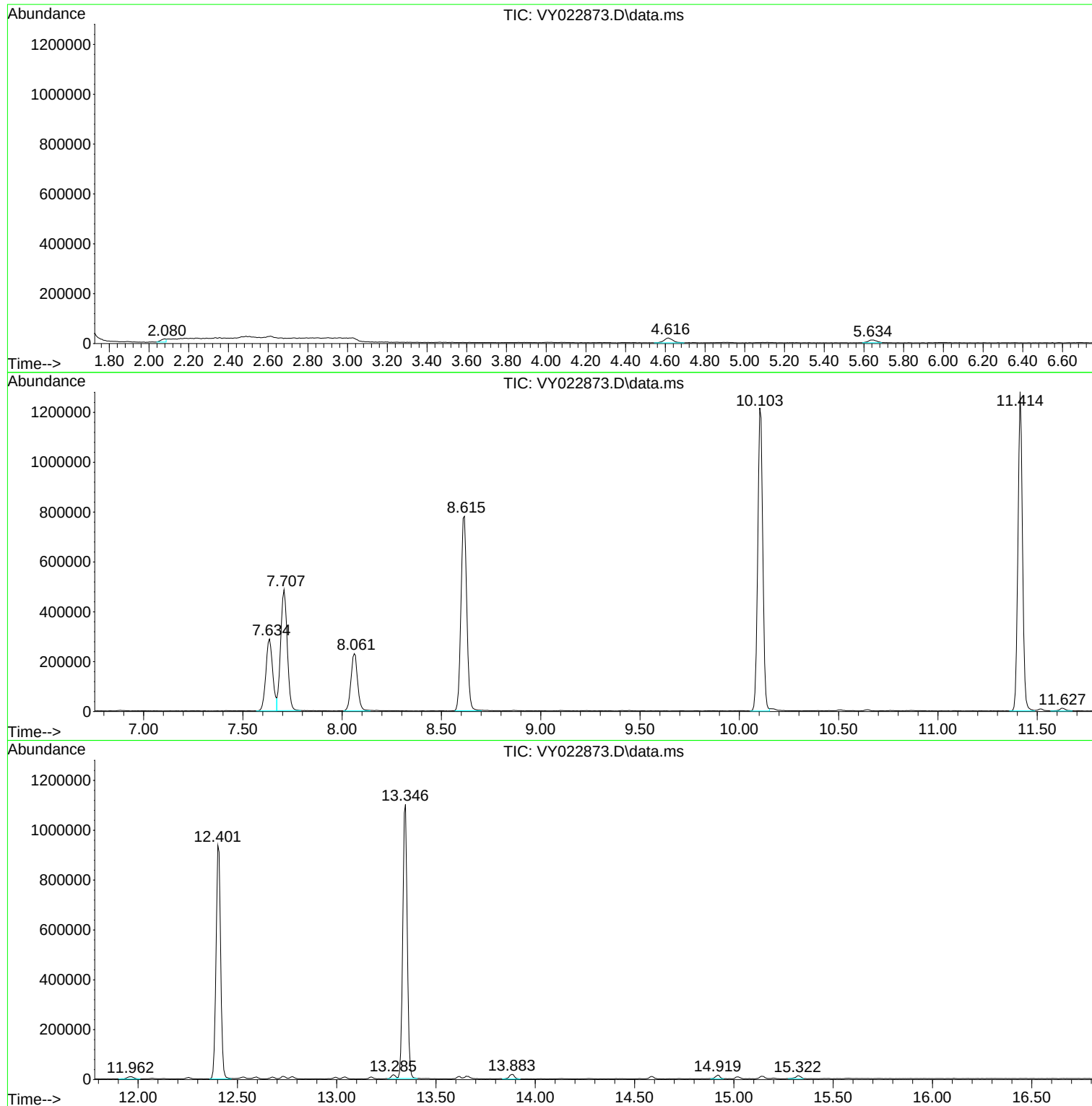
Sum of corrected areas: 11596078

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022873.D
Acq On : 30 Jun 2025 11:39
Operator : SY/MD
Sample : VY0630SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022873.D
Acq On : 30 Jun 2025 11:39
Operator : SY/MD
Sample : VY0630SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022873.D
Acq On : 30 Jun 2025 11:39
Operator : SY/MD
Sample : VY0630SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0701SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0701SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
	ID :	Test:	VOC-TCLVOA-10
	0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022892.D	1	07/01/25 11:05	VY070125

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

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0701SBL01		SDG No.:	Q2458
Lab Sample ID:	VY0701SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022892.D	1	07/01/25 11:05	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.6		17 - 146	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	324000	7.707			
540-36-3	1,4-Difluorobenzene	617000	8.616			
3114-55-4	Chlorobenzene-d5	600000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	258000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0701SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0701SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
	ID : 0.25	Test:	VOC-TCLVOA-10
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022892.D	1	07/01/25 11:05	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022892.D
 Acq On : 01 Jul 2025 11:05
 Operator : SY/MD
 Sample : VY0701SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0701SBL01

Quant Time: Jul 02 02:43:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	323968	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	617486	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	600262	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	258497	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	188872	52.235	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	104.480%
35) Dibromofluoromethane	7.634	113	189629	50.497	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.000%
50) Toluene-d8	10.103	98	751174	50.410	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.820%
62) 4-Bromofluorobenzene	12.401	95	266412	55.615	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	111.220%

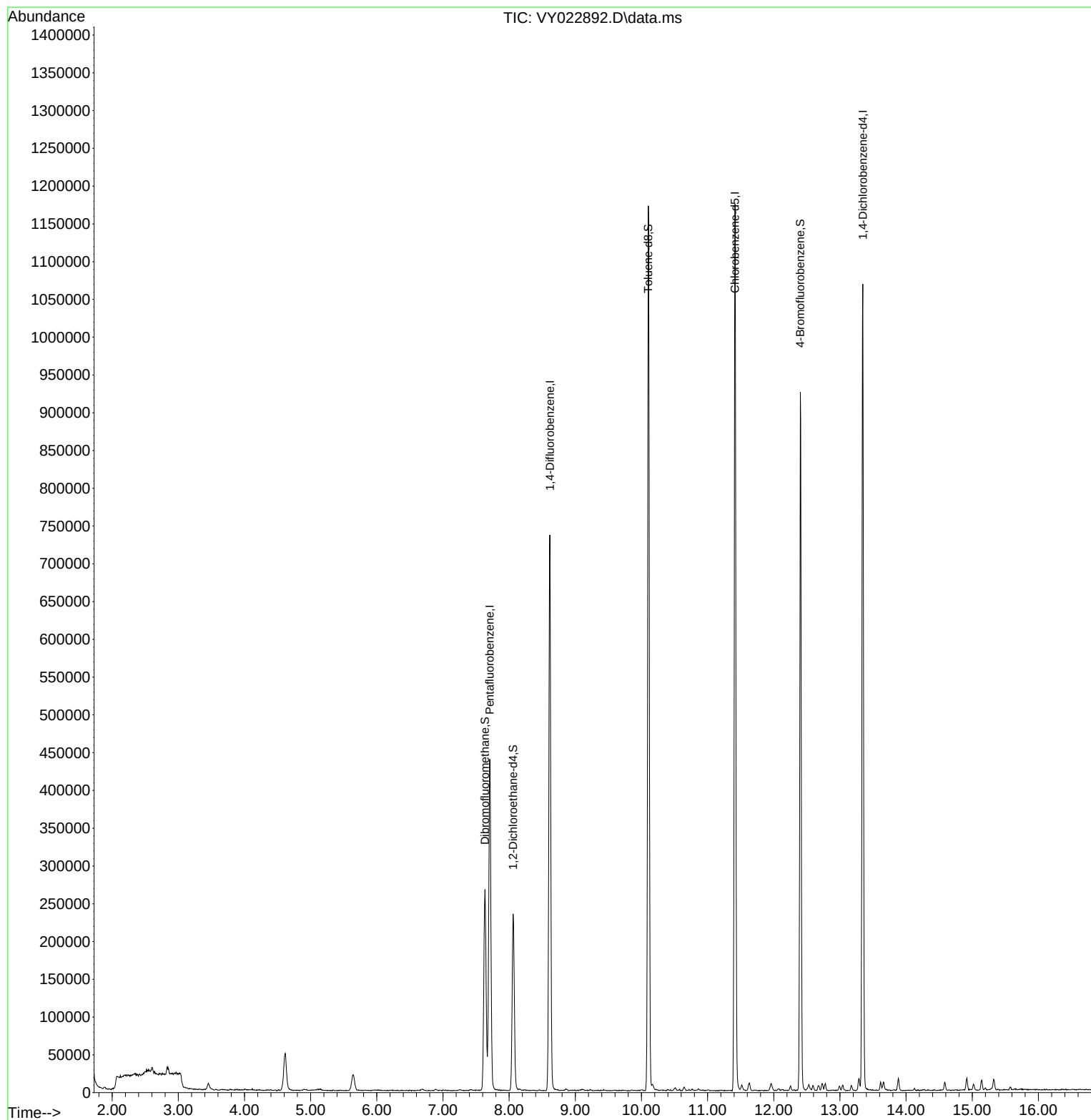
Target Compounds	Qvalue

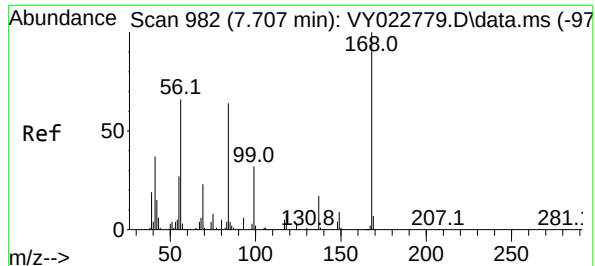
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022892.D
Acq On : 01 Jul 2025 11:05
Operator : SY/MD
Sample : VY0701SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0701SBL01

Quant Time: Jul 02 02:43:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

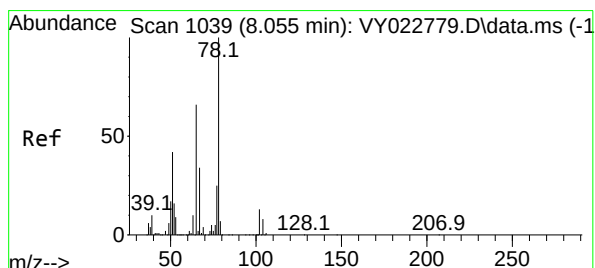
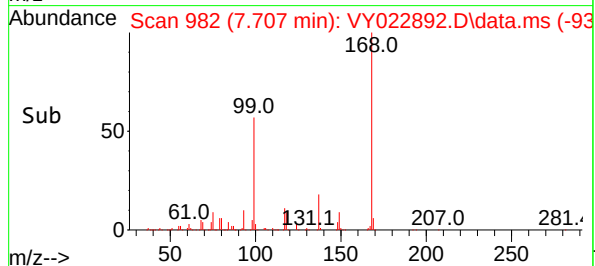
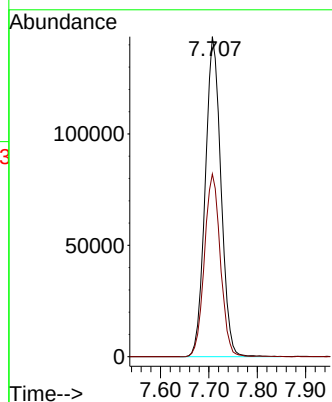
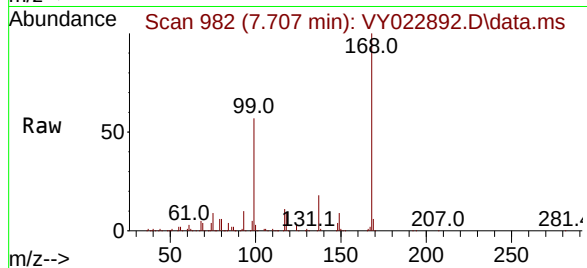




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022892.D
Acq: 01 Jul 2025 11:05

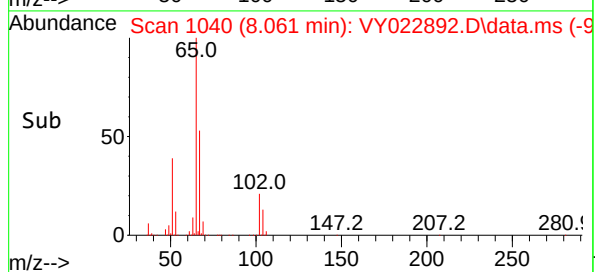
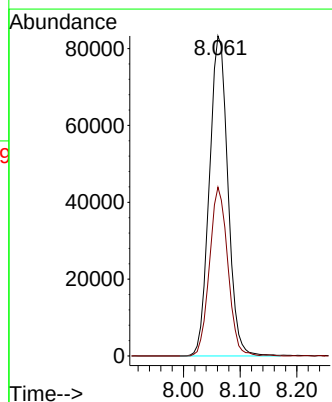
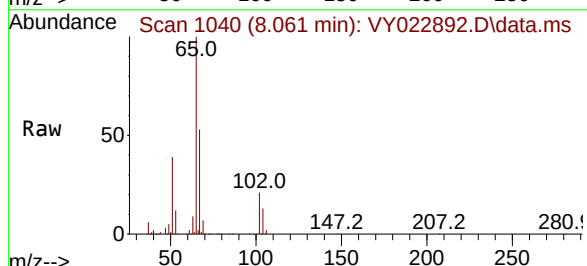
Instrument :
MSVOA_Y
ClientSampleId :
VY0701SBL01

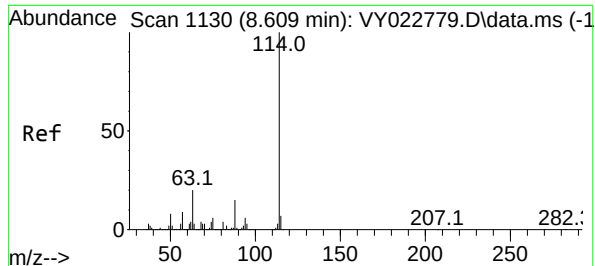
Tgt Ion:168 Resp: 323968
Ion Ratio Lower Upper
168 100
99 57.1 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 52.235 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022892.D
Acq: 01 Jul 2025 11:05

Tgt Ion: 65 Resp: 188872
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022892.D

Acq: 01 Jul 2025 11:05

Instrument :

MSVOA_Y

ClientSampleId :

VY0701SBL01

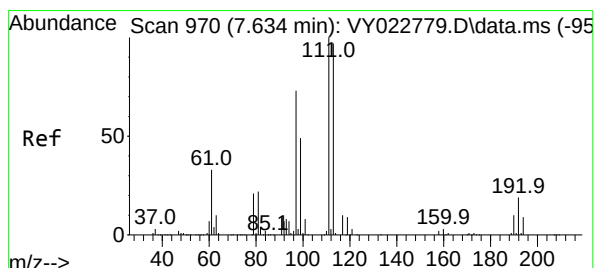
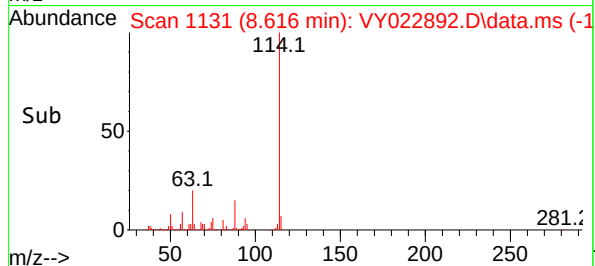
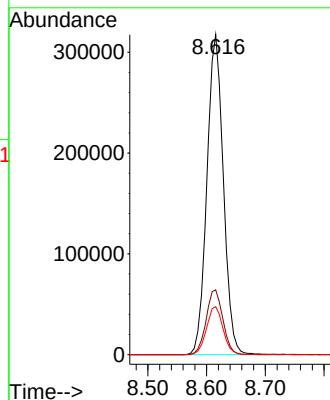
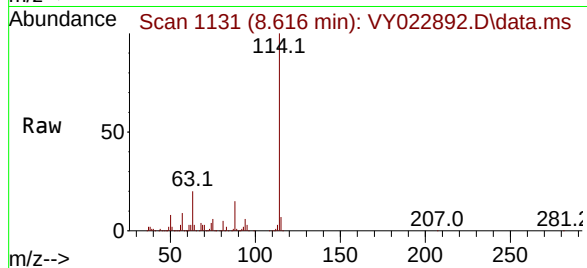
Tgt Ion:114 Resp: 617486

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

88 15.0 0.0 27.8



#35

Dibromofluoromethane

Concen: 50.497 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022892.D

Acq: 01 Jul 2025 11:05

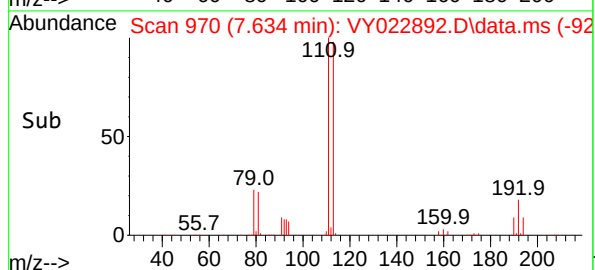
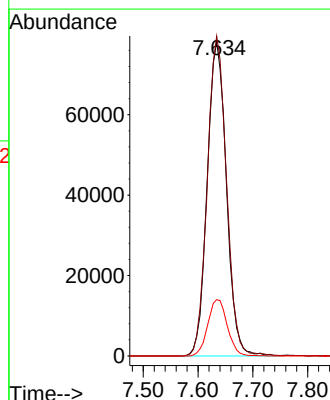
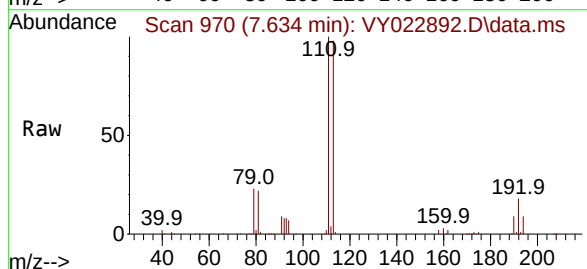
Tgt Ion:113 Resp: 189629

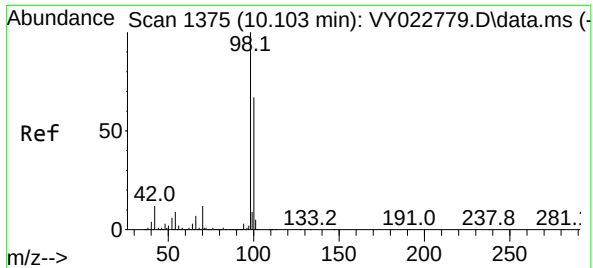
Ion Ratio Lower Upper

113 100

111 102.0 81.1 121.7

192 18.2 14.2 21.2

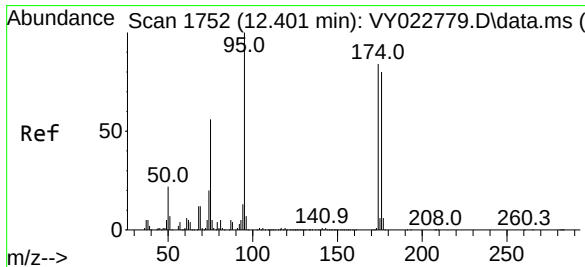
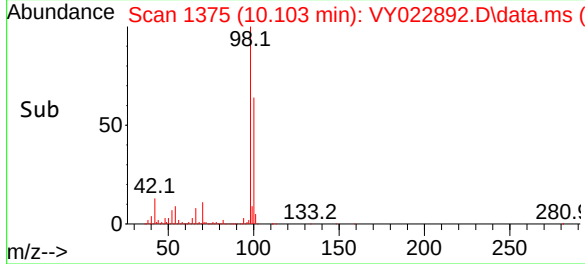
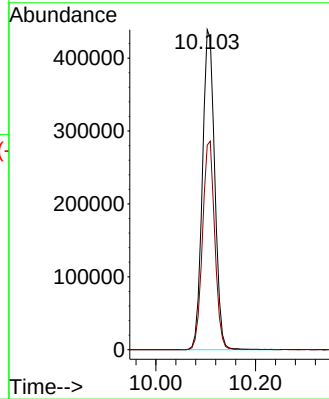
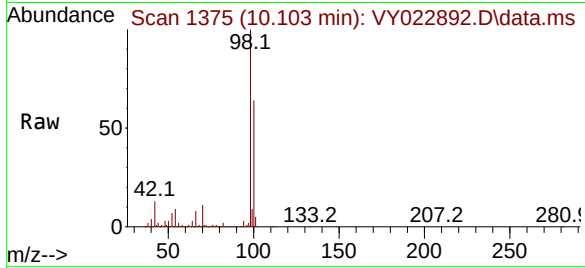




#50
Toluene-d8
Concen: 50.410 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022892.D
Acq: 01 Jul 2025 11:05

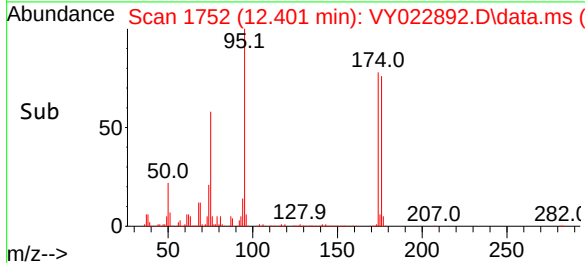
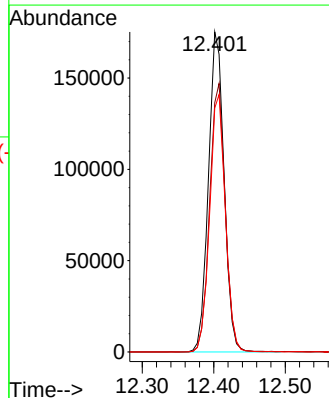
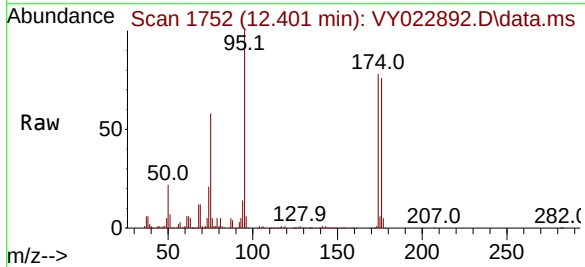
Instrument :
MSVOA_Y
ClientSampleId :
VY0701SBL01

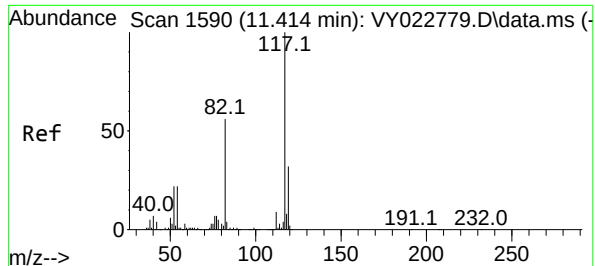
Tgt Ion: 98 Resp: 751174
Ion Ratio Lower Upper
98 100
100 65.0 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 55.615 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022892.D
Acq: 01 Jul 2025 11:05

Tgt Ion: 95 Resp: 266412
Ion Ratio Lower Upper
95 100
174 83.6 0.0 170.0
176 80.6 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022892.D

Acq: 01 Jul 2025 11:05

Instrument :

MSVOA_Y

ClientSampleId :

VY0701SBL01

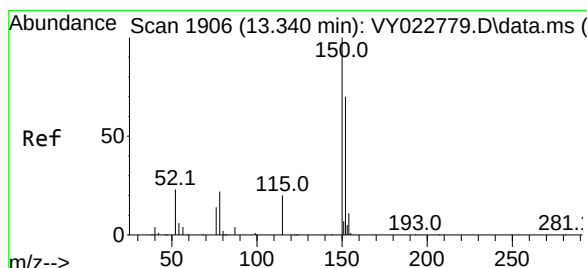
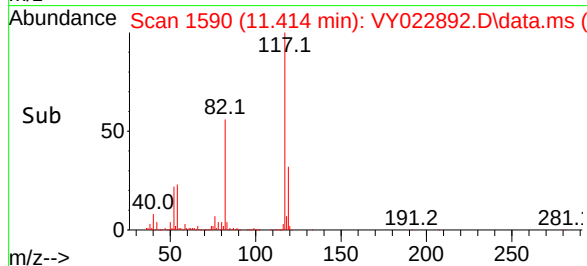
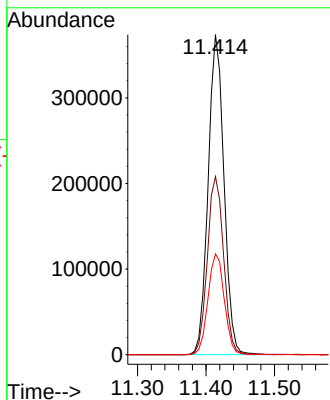
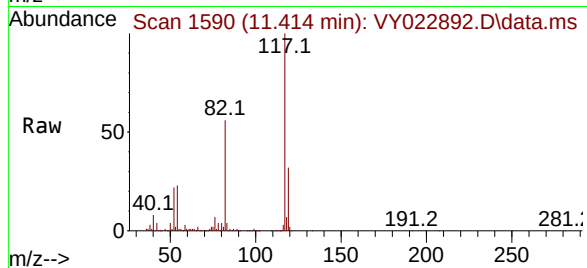
Tgt Ion:117 Resp: 600262

Ion Ratio Lower Upper

117 100

82 55.7 44.6 66.8

119 31.5 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022892.D

Acq: 01 Jul 2025 11:05

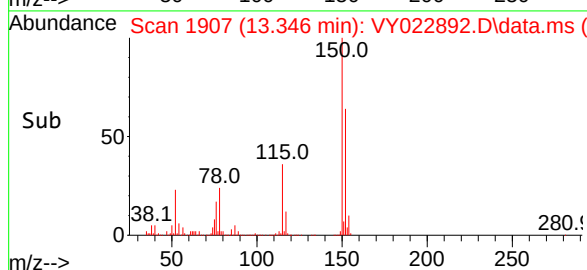
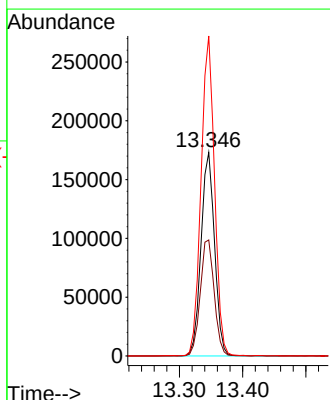
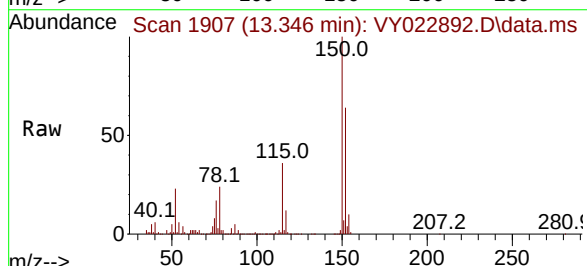
Tgt Ion:152 Resp: 258497

Ion Ratio Lower Upper

152 100

115 58.6 28.9 86.7

150 156.2 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022892.D
 Acq On : 01 Jul 2025 11:05
 Operator : SY/MD
 Sample : VY0701SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0701SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Title : SW846 8260

Signal : TIC: VY022892.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.074	50	58	65	rBV5	15743	61629	3.06%	0.554%
2	3.452	277	284	292	rBV2	8452	20456	1.01%	0.184%
3	4.616	461	475	490	rBV2	49160	153050	7.59%	1.376%
4	5.640	633	643	652	rBV4	20827	65427	3.24%	0.588%
5	7.634	960	970	976	rBV	266058	638270	31.64%	5.740%
6	7.707	976	982	998	rVB	437835	986282	48.90%	8.870%
7	8.061	1030	1040	1052	rBV	233724	533870	26.47%	4.802%
8	8.616	1121	1131	1142	rBV	735793	1453261	72.05%	13.070%
9	10.103	1368	1375	1383	rBV	1171467	2017053	100.00%	18.141%
10	11.414	1583	1590	1602	rBV	1173630	1928591	95.61%	17.345%
11	11.633	1619	1626	1635	rVB3	10256	20930	1.04%	0.188%
12	11.956	1672	1679	1688	rVB5	9612	21778	1.08%	0.196%
13	12.401	1745	1752	1764	rBV	924681	1433682	71.08%	12.894%
14	13.285	1889	1897	1901	rBV3	16238	31146	1.54%	0.280%
15	13.346	1901	1907	1915	rVB	1065551	1650193	81.81%	14.841%
16	13.883	1988	1995	2001	rBV	16039	26575	1.32%	0.239%
17	14.919	2159	2165	2171	rBV3	16095	26740	1.33%	0.240%
18	15.145	2196	2202	2206	rBV	12949	20873	1.03%	0.188%
19	15.322	2222	2231	2238	rVB5	14256	28976	1.44%	0.261%

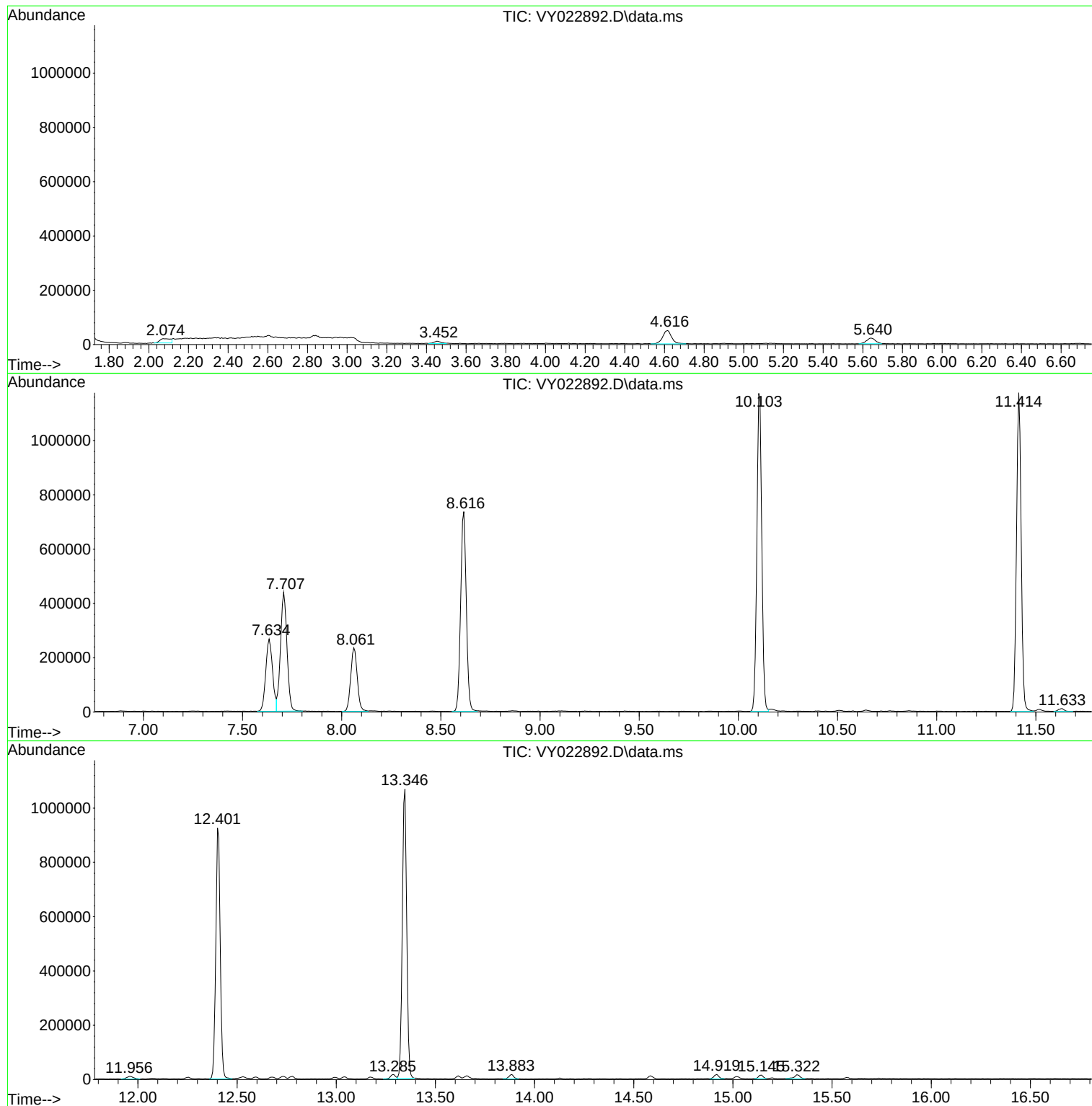
Sum of corrected areas: 11118782

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022892.D
Acq On : 01 Jul 2025 11:05
Operator : SY/MD
Sample : VY0701SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0701SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022892.D
Acq On : 01 Jul 2025 11:05
Operator : SY/MD
Sample : VY0701SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0701SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022892.D
Acq On : 01 Jul 2025 11:05
Operator : SY/MD
Sample : VY0701SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0701SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0702SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0702SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022904.D	1	07/02/25 11:42	VY070225

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0702SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0702SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022904.D	1	07/02/25 11:42	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.3		63 - 155	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	51.3		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		17 - 146	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	327000	7.713			
540-36-3	1,4-Difluorobenzene	608000	8.616			
3114-55-4	Chlorobenzene-d5	600000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	251000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0702SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0702SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022904.D	1	07/02/25 11:42	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022904.D
Acq On : 02 Jul 2025 11:42
Operator : SY/MD
Sample : VY0702SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0702SBL01

Quant Time: Jul 03 02:18:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	327303	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	608180	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	599654	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	251367	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	179996	49.273	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.540%
35) Dibromofluoromethane	7.640	113	188102	50.857	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.720%
50) Toluene-d8	10.109	98	752943	51.302	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.600%
62) 4-Bromofluorobenzene	12.408	95	260821	55.281	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	110.560%

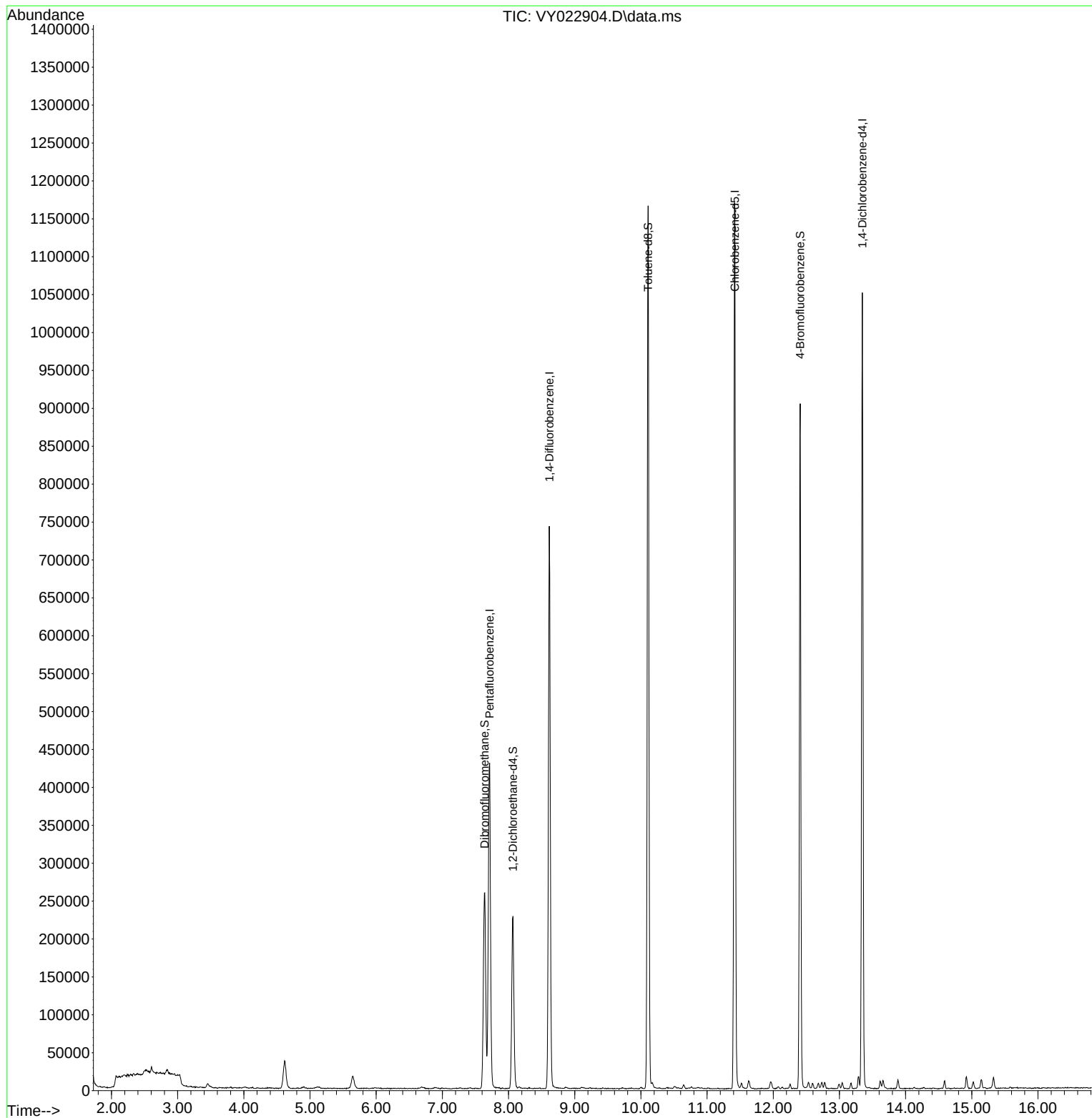
Target Compounds	Qvalue

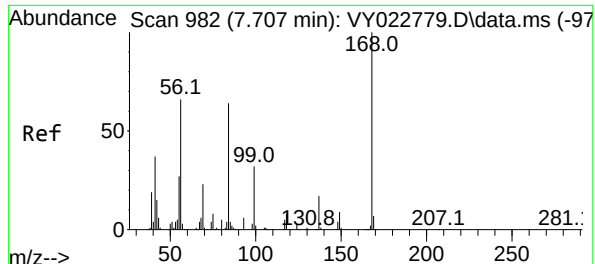
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022904.D
Acq On : 02 Jul 2025 11:42
Operator : SY/MD
Sample : VY0702SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0702SBL01

Quant Time: Jul 03 02:18:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

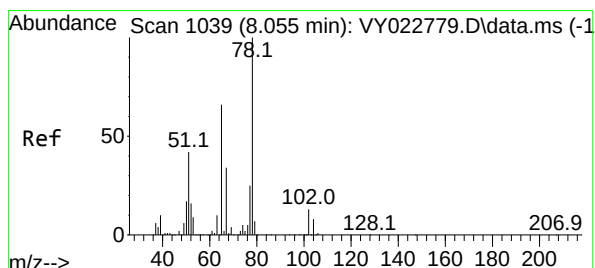
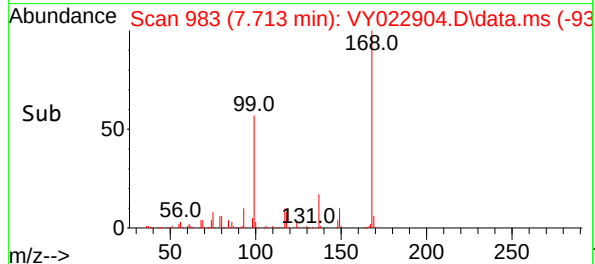
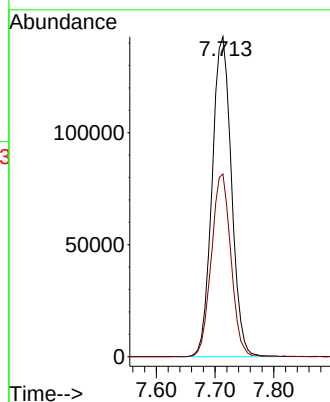
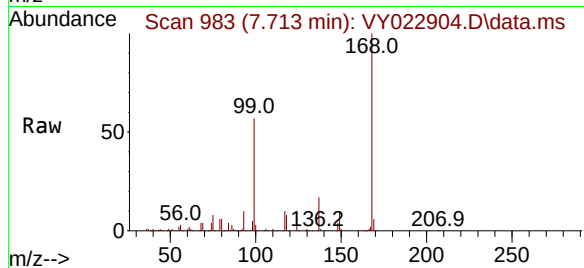




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022904.D
Acq: 02 Jul 2025 11:42

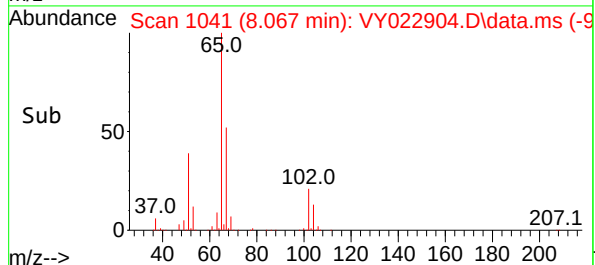
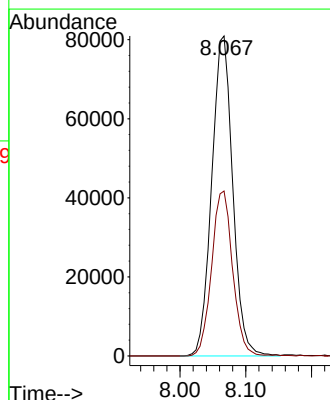
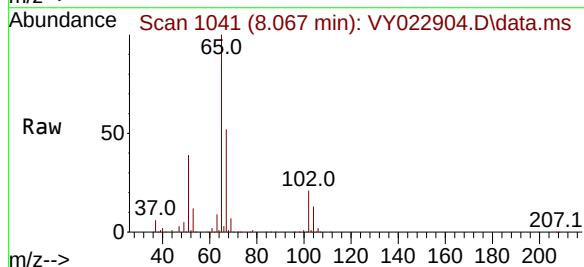
Instrument :
MSVOA_Y
ClientSampleId :
VY0702SBL01

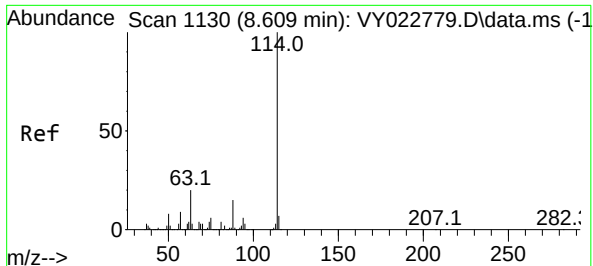
Tgt Ion:168 Resp: 327303
Ion Ratio Lower Upper
168 100
99 57.1 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 49.273 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022904.D
Acq: 02 Jul 2025 11:42

Tgt Ion: 65 Resp: 179996
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VY022904.D

Acq: 02 Jul 2025 11:42

Instrument :

MSVOA_Y

ClientSampleId :

VY0702SBL01

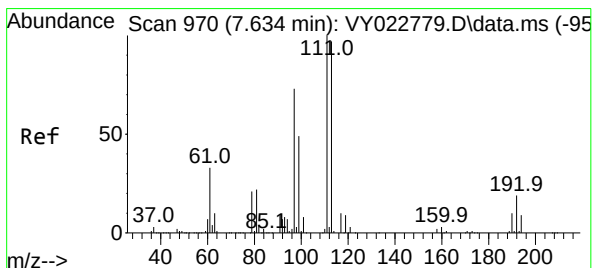
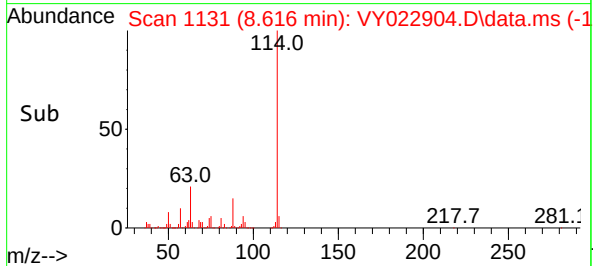
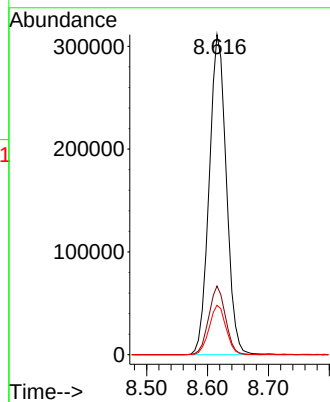
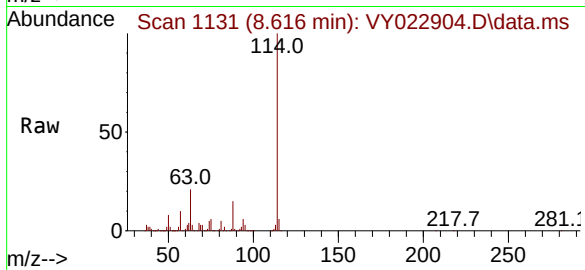
Tgt Ion:114 Resp: 608180

Ion Ratio Lower Upper

114 100

63 21.4 0.0 40.8

88 15.4 0.0 27.8



#35

Dibromofluoromethane

Concen: 50.857 ug/l

RT: 7.640 min Scan# 971

Delta R.T. -0.000 min

Lab File: VY022904.D

Acq: 02 Jul 2025 11:42

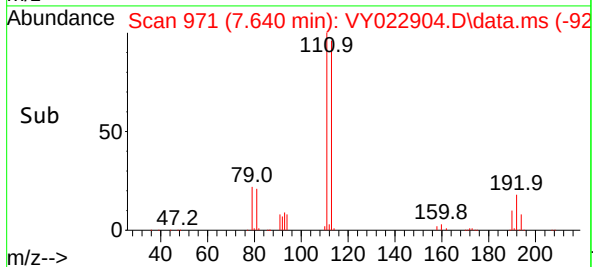
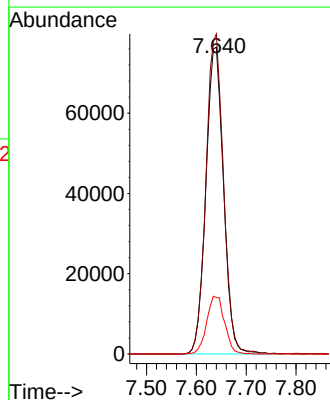
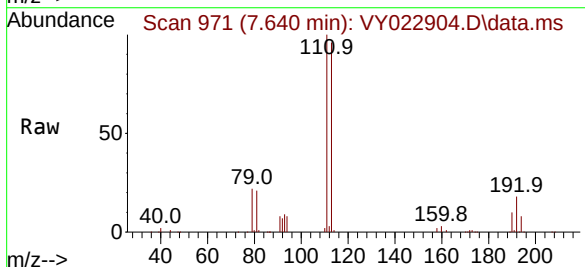
Tgt Ion:113 Resp: 188102

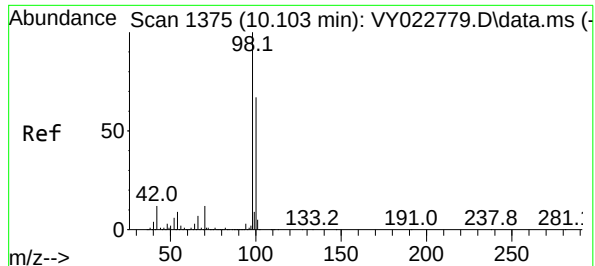
Ion Ratio Lower Upper

113 100

111 103.4 81.1 121.7

192 19.0 14.2 21.2





#50

Toluene-d8

Concen: 51.302 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. -0.000 min

Lab File: VY022904.D

Acq: 02 Jul 2025 11:42

Instrument :

MSVOA_Y

ClientSampleId :

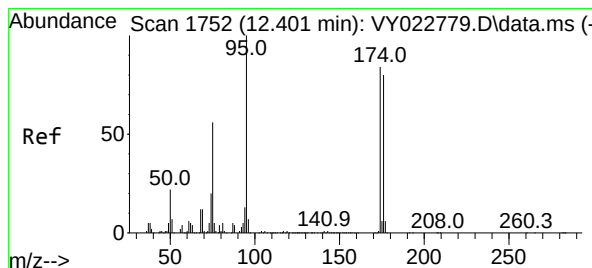
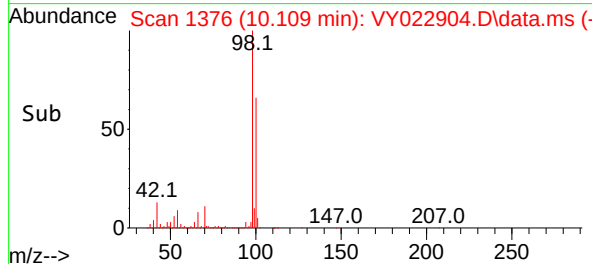
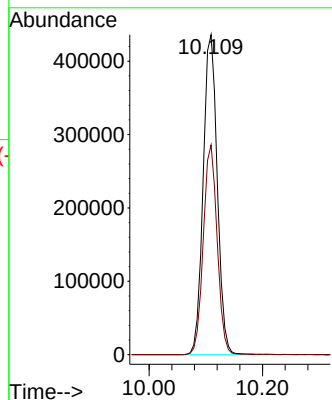
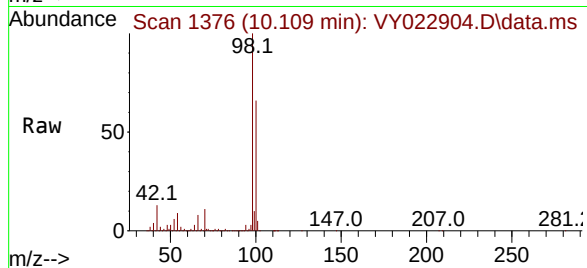
VY0702SBL01

Tgt Ion: 98 Resp: 752943

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 55.281 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.000 min

Lab File: VY022904.D

Acq: 02 Jul 2025 11:42

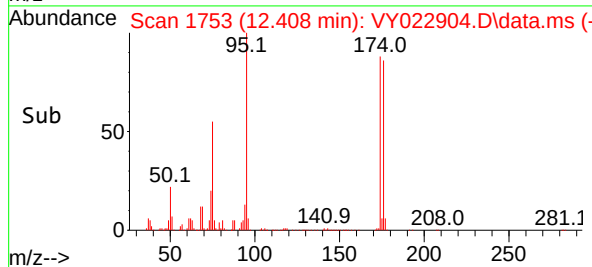
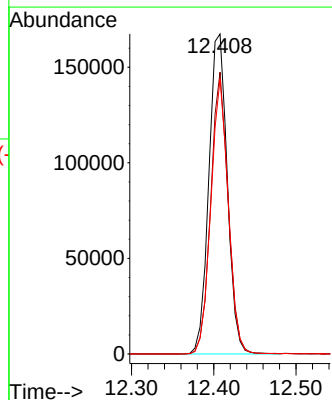
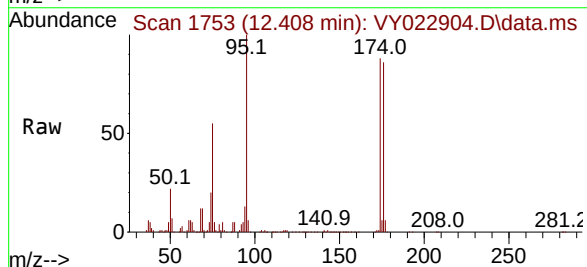
Tgt Ion: 95 Resp: 260821

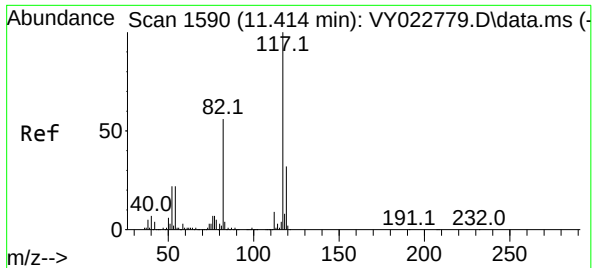
Ion Ratio Lower Upper

95 100

174 82.8 0.0 170.0

176 81.5 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022904.D

Acq: 02 Jul 2025 11:42

Instrument :

MSVOA_Y

ClientSampleId :

VY0702SBL01

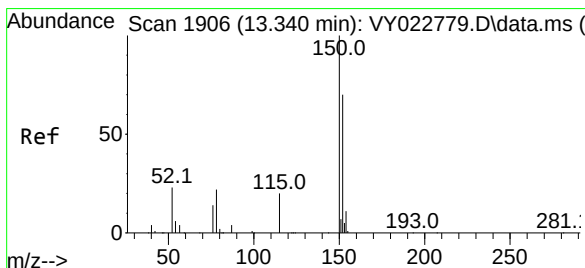
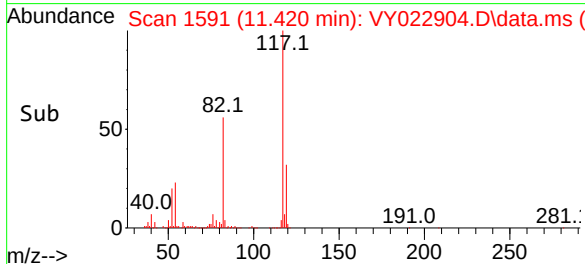
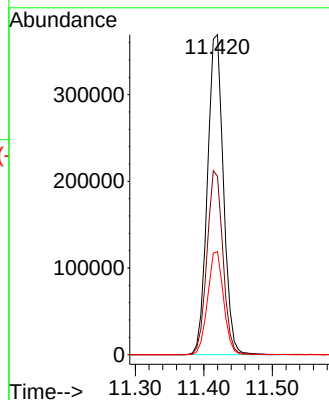
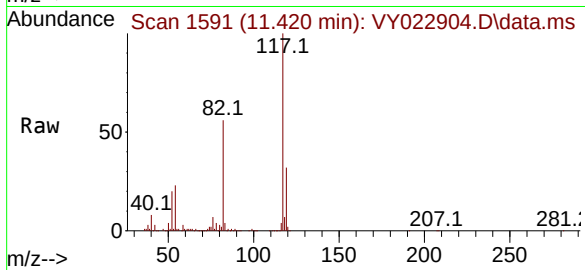
Tgt Ion:117 Resp: 599654

Ion Ratio Lower Upper

117 100

82 55.7 44.6 66.8

119 32.2 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022904.D

Acq: 02 Jul 2025 11:42

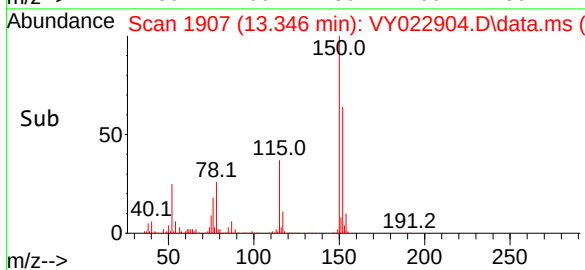
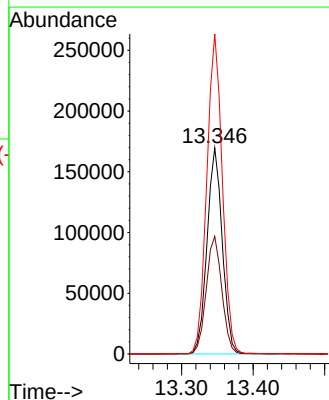
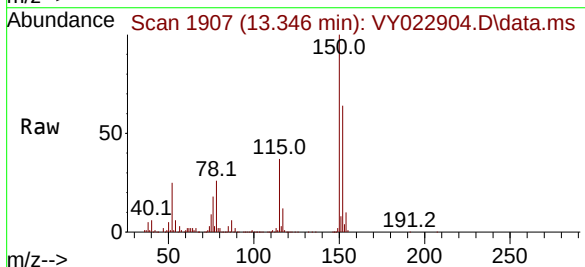
Tgt Ion:152 Resp: 251367

Ion Ratio Lower Upper

152 100

115 58.6 28.9 86.7

150 157.7 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022904.D
Acq On : 02 Jul 2025 11:42
Operator : SY/MD
Sample : VY0702SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0702SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M

Title : SW846 8260

Signal : TIC: VY022904.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.068	51	57	60	rBV2	14564	30673	1.52%	0.282%
2	4.616	465	475	492	rVB2	36594	111940	5.56%	1.031%
3	5.647	636	644	654	rVB3	15922	46650	2.32%	0.430%
4	7.640	960	971	976	rBV	258351	631532	31.36%	5.815%
5	7.713	976	983	996	rVB	428249	1000499	49.68%	9.212%
6	8.067	1031	1041	1052	rBV	227293	509454	25.30%	4.691%
7	8.616	1121	1131	1145	rBV	742030	1450953	72.05%	13.360%
8	10.109	1367	1376	1384	rBV	1164555	2013910	100.00%	18.544%
9	11.414	1581	1590	1602	rBV	1168950	1926634	95.67%	17.740%
10	12.408	1745	1753	1765	rBV	903652	1403272	69.68%	12.921%
11	13.285	1892	1897	1901	rBV2	15365	25847	1.28%	0.238%
12	13.346	1901	1907	1920	rVB	1049196	1614410	80.16%	14.865%
13	13.657	1955	1958	1969	rVB5	11156	21359	1.06%	0.197%
14	13.883	1989	1995	2001	rBV4	11811	20309	1.01%	0.187%
15	14.919	2158	2165	2171	rBV3	15676	25813	1.28%	0.238%
16	15.328	2224	2232	2240	rVB3	14493	27021	1.34%	0.249%

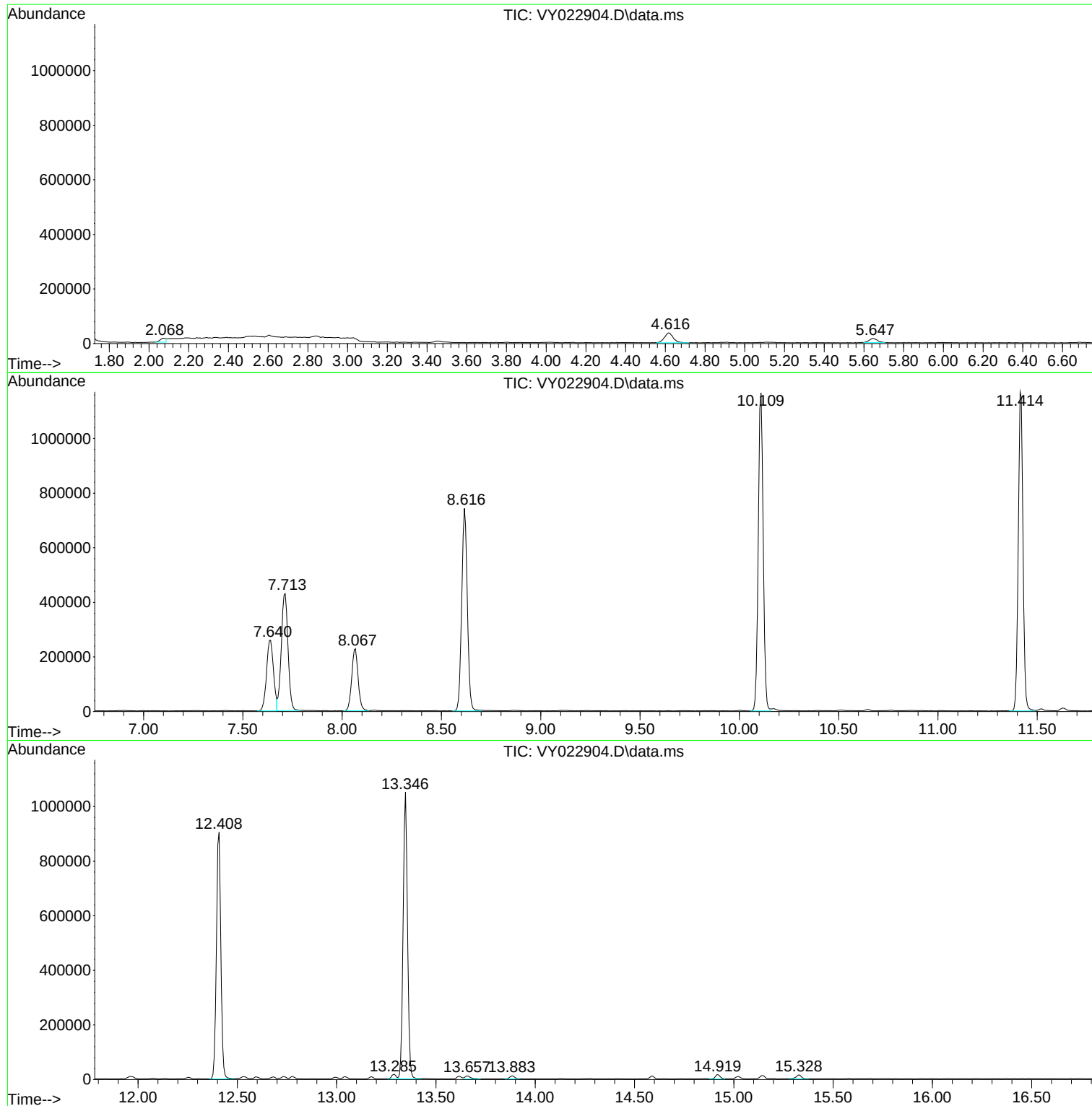
Sum of corrected areas: 10860276

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022904.D
Acq On : 02 Jul 2025 11:42
Operator : SY/MD
Sample : VY0702SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0702SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022904.D
Acq On : 02 Jul 2025 11:42
Operator : SY/MD
Sample : VY0702SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0702SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022904.D
Acq On : 02 Jul 2025 11:42
Operator : SY/MD
Sample : VY0702SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0702SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0703SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0703SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022930.D	1	07/03/25 09:57	VY070325

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

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0703SBL01		SDG No.:	Q2458
Lab Sample ID:	VY0703SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022930.D	1	07/03/25 09:57	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.7		63 - 155	105%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	52.1		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		17 - 146	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	297000	7.707			
540-36-3	1,4-Difluorobenzene	558000	8.615			
3114-55-4	Chlorobenzene-d5	554000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	231000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0703SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0703SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022930.D	1	07/03/25 09:57	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022930.D
Acq On : 03 Jul 2025 09:57
Operator : SY/MD
Sample : VY0703SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0703SBL01

Quant Time: Jul 04 03:15:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	297416	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	558302	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	553906	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	230762	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	174829	52.668	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	105.340%
35) Dibromofluoromethane	7.634	113	179026	52.727	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	105.460%
50) Toluene-d8	10.109	98	701592	52.073	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	104.140%
62) 4-Bromofluorobenzene	12.401	95	239365	55.266	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	110.540%

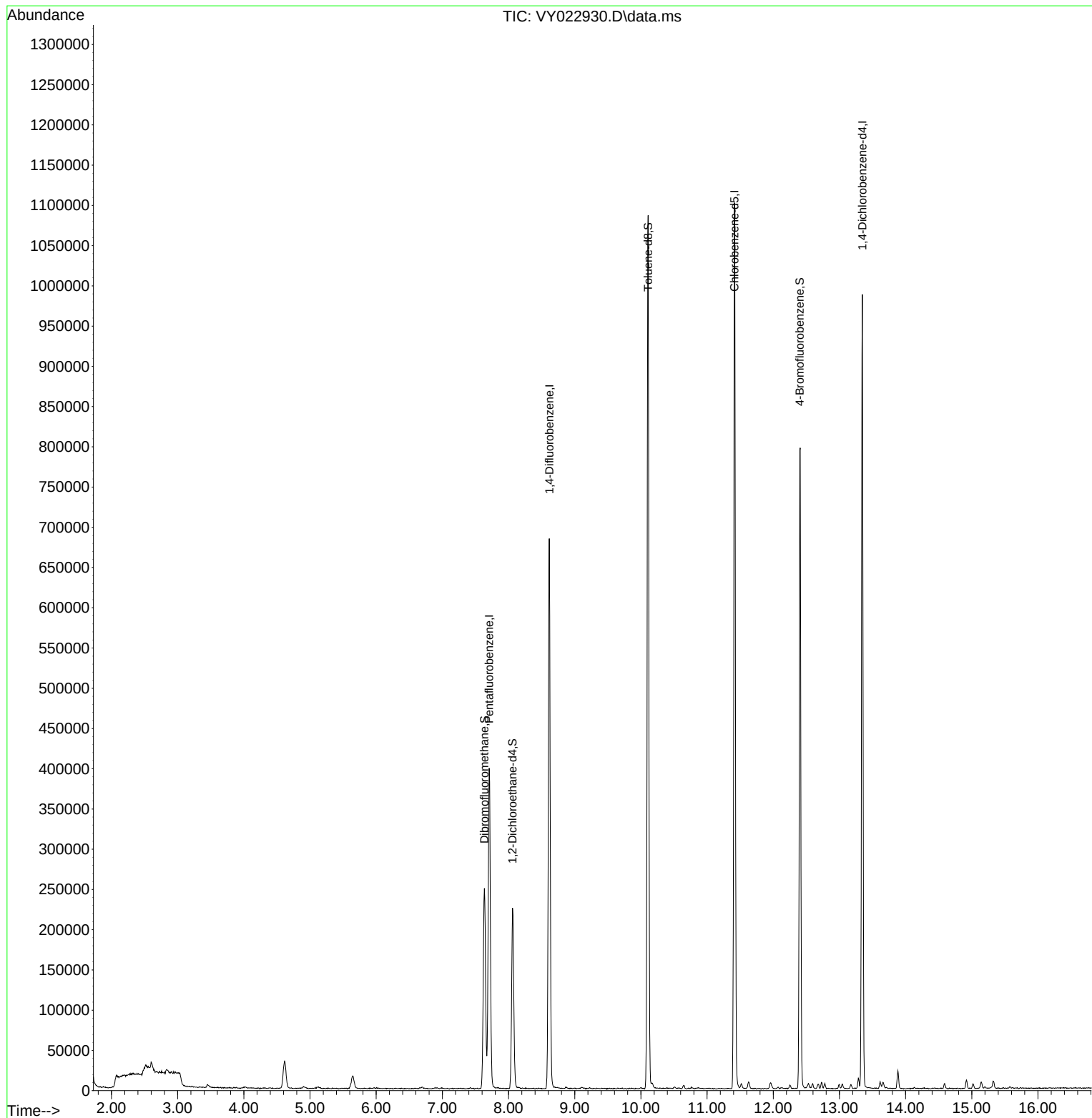
Target Compounds	Qvalue

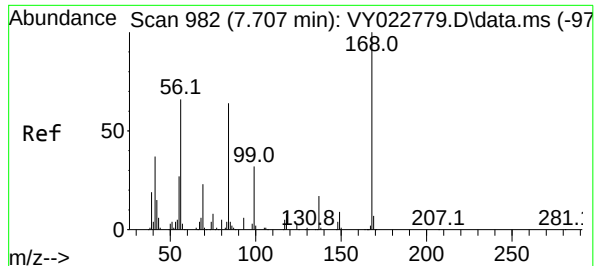
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022930.D
Acq On : 03 Jul 2025 09:57
Operator : SY/MD
Sample : VY0703SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0703SBL01

Quant Time: Jul 04 03:15:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

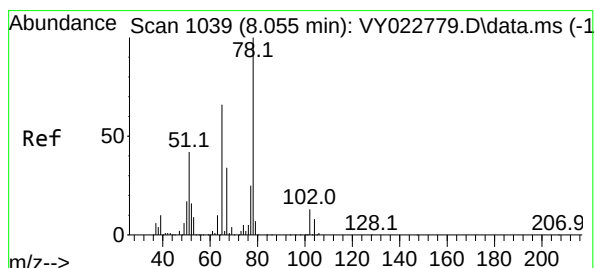
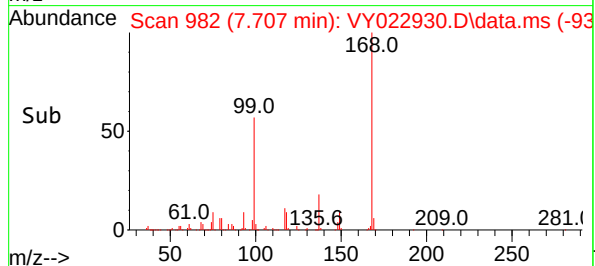
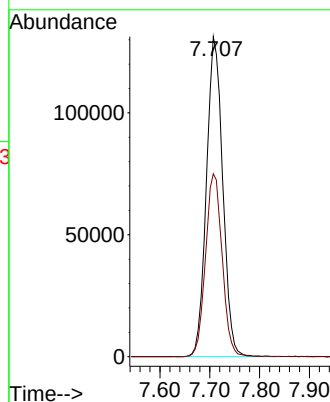
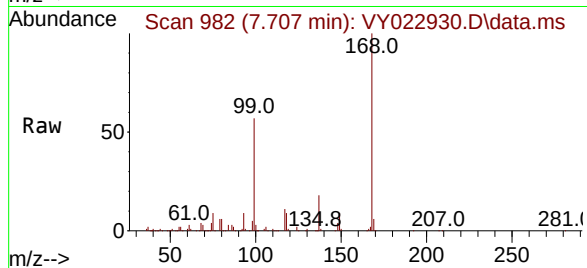




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022930.D
Acq: 03 Jul 2025 09:57

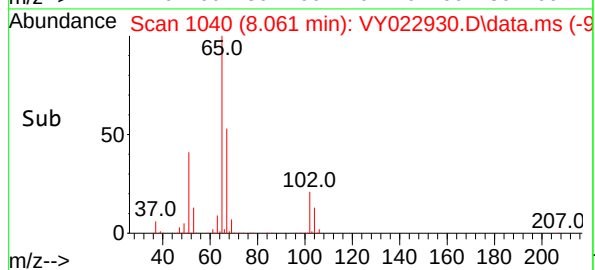
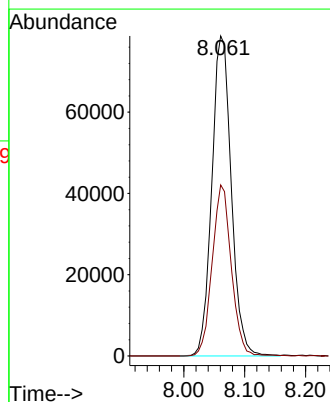
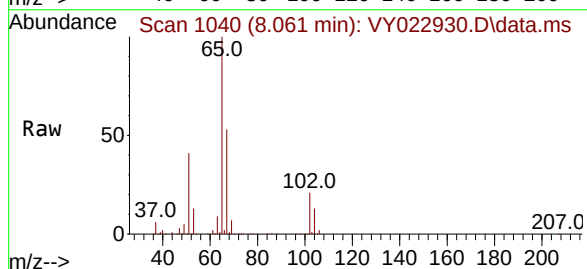
Instrument :
MSVOA_Y
ClientSampleId :
VY0703SBL01

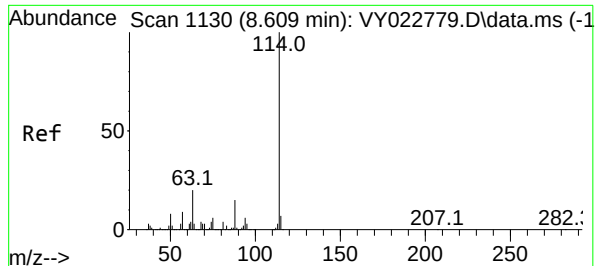
Tgt Ion:168 Resp: 297416
Ion Ratio Lower Upper
168 100
99 57.1 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 52.668 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022930.D
Acq: 03 Jul 2025 09:57

Tgt Ion: 65 Resp: 174829
Ion Ratio Lower Upper
65 100
67 52.5 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VY022930.D

Acq: 03 Jul 2025 09:57

Instrument :

MSVOA_Y

ClientSampleId :

VY0703SBL01

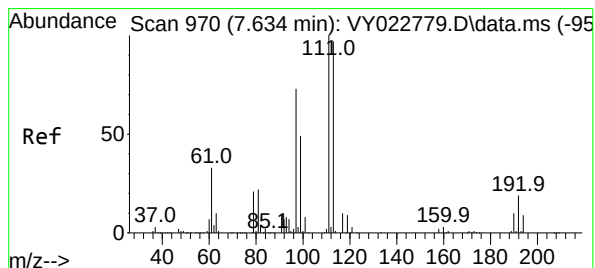
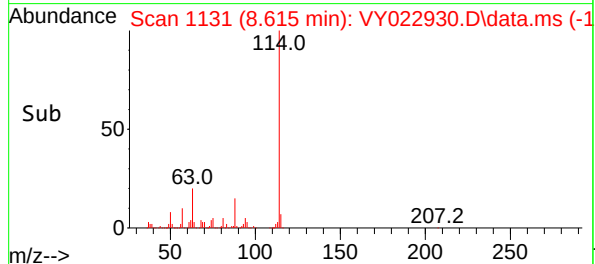
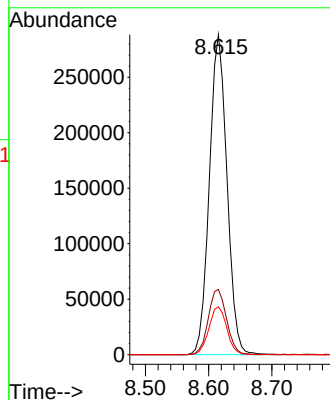
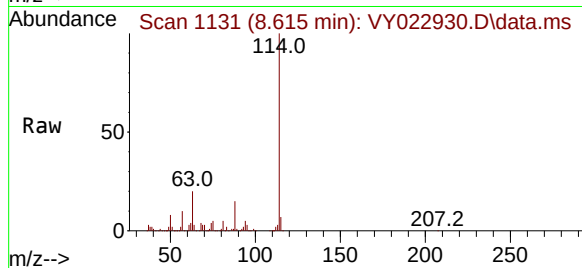
Tgt Ion:114 Resp: 558302

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

88 15.0 0.0 27.8



#35

Dibromofluoromethane

Concen: 52.727 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022930.D

Acq: 03 Jul 2025 09:57

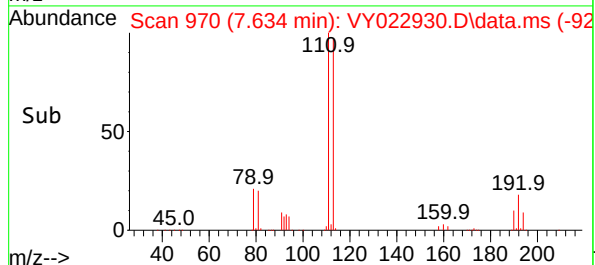
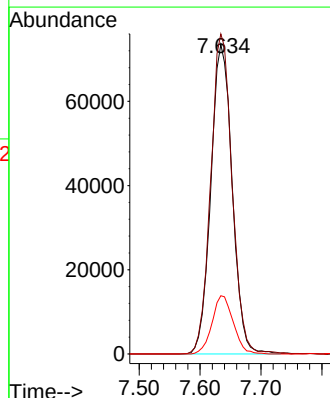
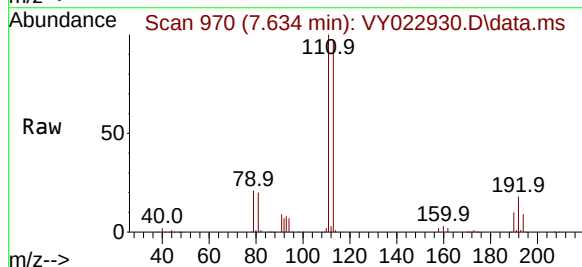
Tgt Ion:113 Resp: 179026

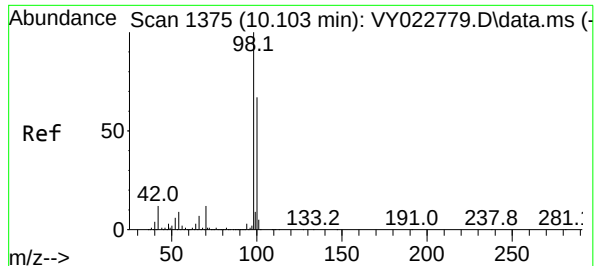
Ion Ratio Lower Upper

113 100

111 103.5 81.1 121.7

192 18.7 14.2 21.2

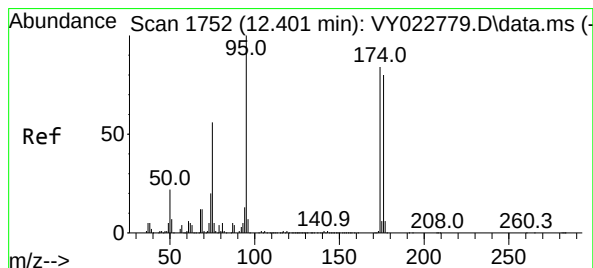
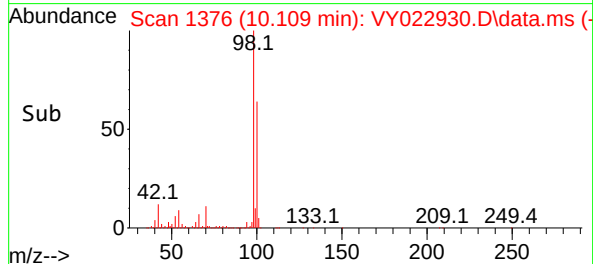
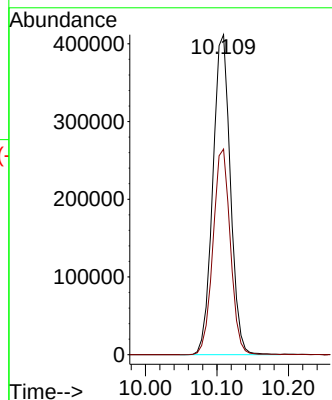
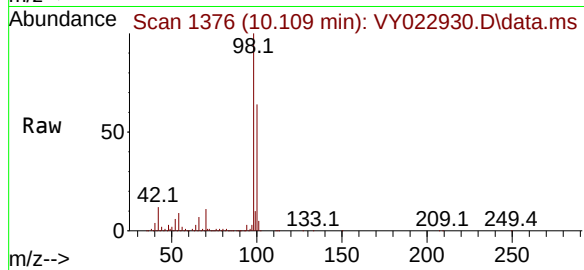




#50
Toluene-d8
Concen: 52.073 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022930.D
Acq: 03 Jul 2025 09:57

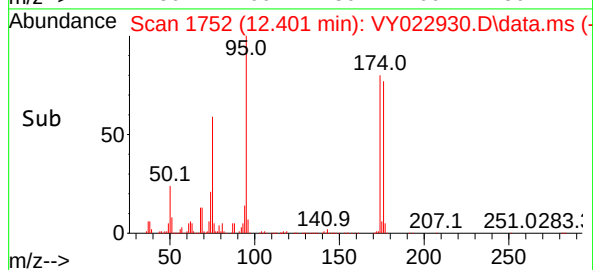
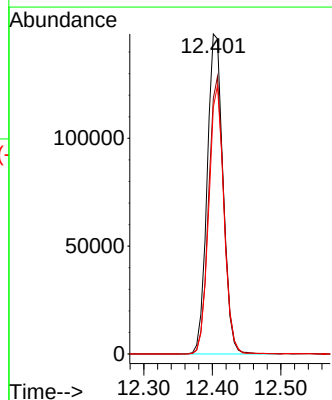
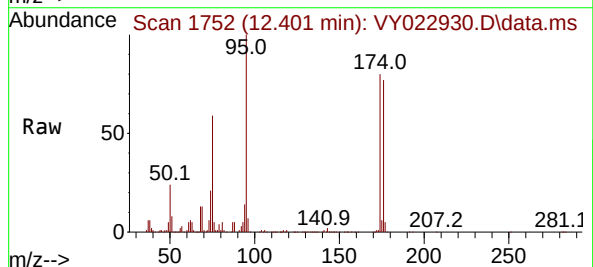
Instrument :
MSVOA_Y
ClientSampleId :
VY0703SBL01

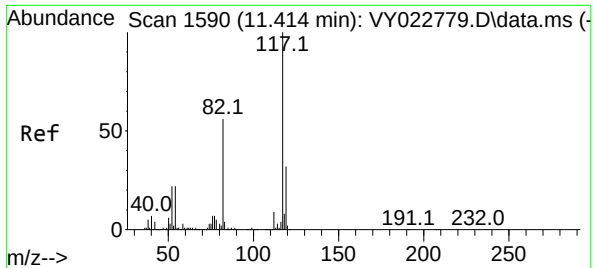
Tgt Ion: 98 Resp: 701592
Ion Ratio Lower Upper
98 100
100 63.6 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 55.266 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022930.D
Acq: 03 Jul 2025 09:57

Tgt Ion: 95 Resp: 239365
Ion Ratio Lower Upper
95 100
174 83.6 0.0 170.0
176 80.1 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022930.D

Acq: 03 Jul 2025 09:57

Instrument :

MSVOA_Y

ClientSampleId :

VY0703SBL01

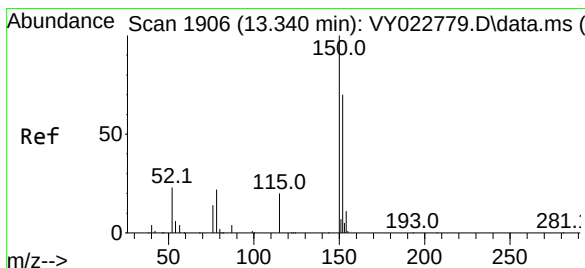
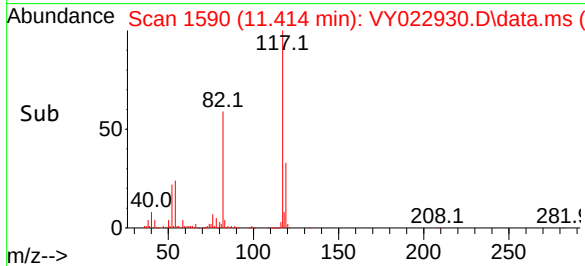
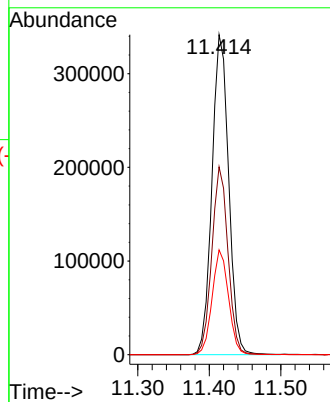
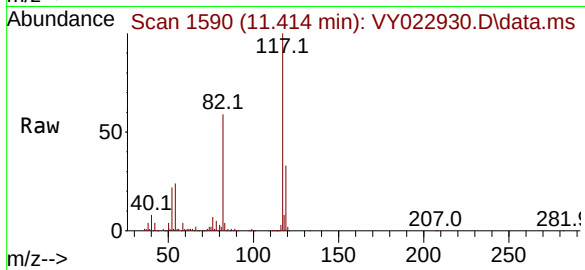
Tgt Ion:117 Resp: 553906

Ion Ratio Lower Upper

117 100

82 58.7 44.6 66.8

119 32.7 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022930.D

Acq: 03 Jul 2025 09:57

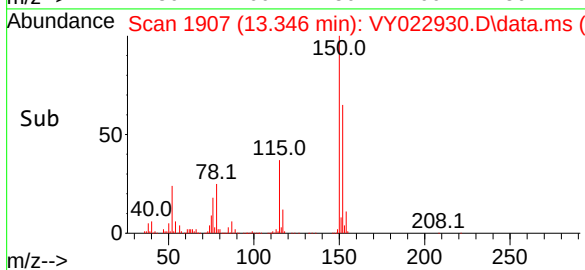
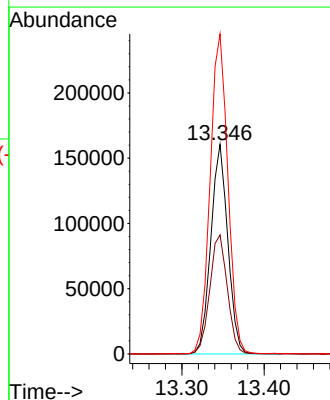
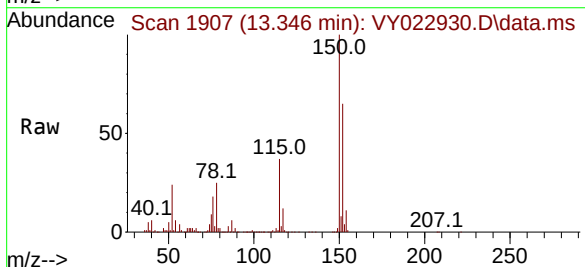
Tgt Ion:152 Resp: 230762

Ion Ratio Lower Upper

152 100

115 58.7 28.9 86.7

150 158.8 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022930.D
 Acq On : 03 Jul 2025 09:57
 Operator : SY/MD
 Sample : VY0703SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0703SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Title : SW846 8260

Signal : TIC: VY022930.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.074	49	58	61	rBV5	14926	36646	1.95%	0.363%
2	2.519	121	131	132	rBV8	13011	32846	1.75%	0.325%
3	4.616	465	475	488	rVB2	33480	102902	5.48%	1.018%
4	5.646	635	644	656	rVB4	15732	49187	2.62%	0.487%
5	7.634	956	970	976	rBV	249281	607900	32.36%	6.014%
6	7.707	976	982	993	rVB	396423	905940	48.22%	8.963%
7	8.061	1031	1040	1051	rBV	224571	498303	26.52%	4.930%
8	8.615	1122	1131	1142	rBV	683546	1344450	71.56%	13.302%
9	10.109	1367	1376	1385	rBV	1085611	1878829	100.00%	18.589%
10	11.414	1582	1590	1602	rBV	1101042	1779952	94.74%	17.610%
11	12.407	1744	1753	1765	rBV	796203	1293354	68.84%	12.796%
12	13.285	1890	1897	1900	rBV4	12918	19699	1.05%	0.195%
13	13.346	1900	1907	1921	rVB	986176	1501071	79.89%	14.851%
14	13.883	1989	1995	2002	rBV	22106	36676	1.95%	0.363%
15	15.322	2223	2231	2239	rVB5	9283	19667	1.05%	0.195%

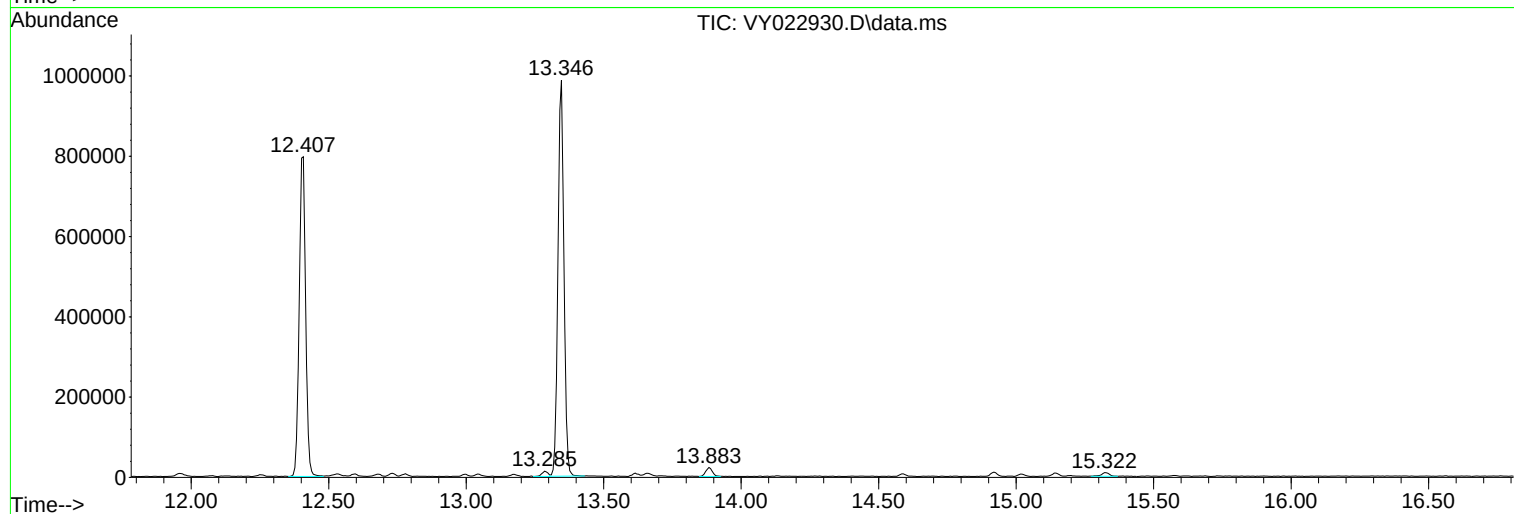
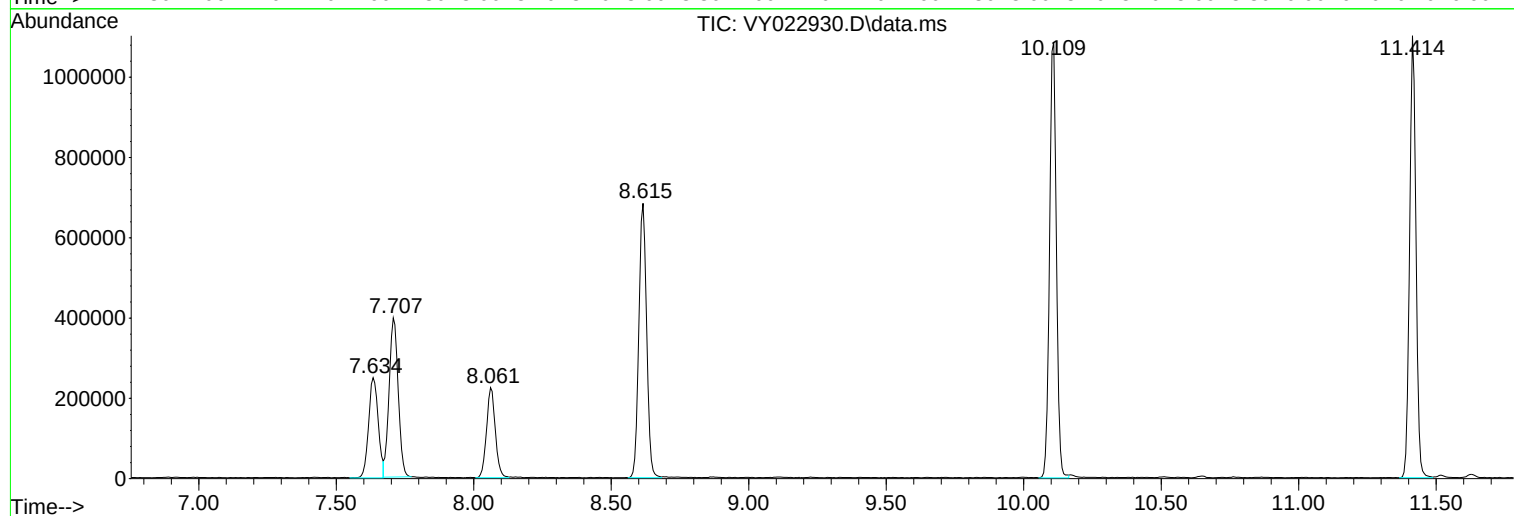
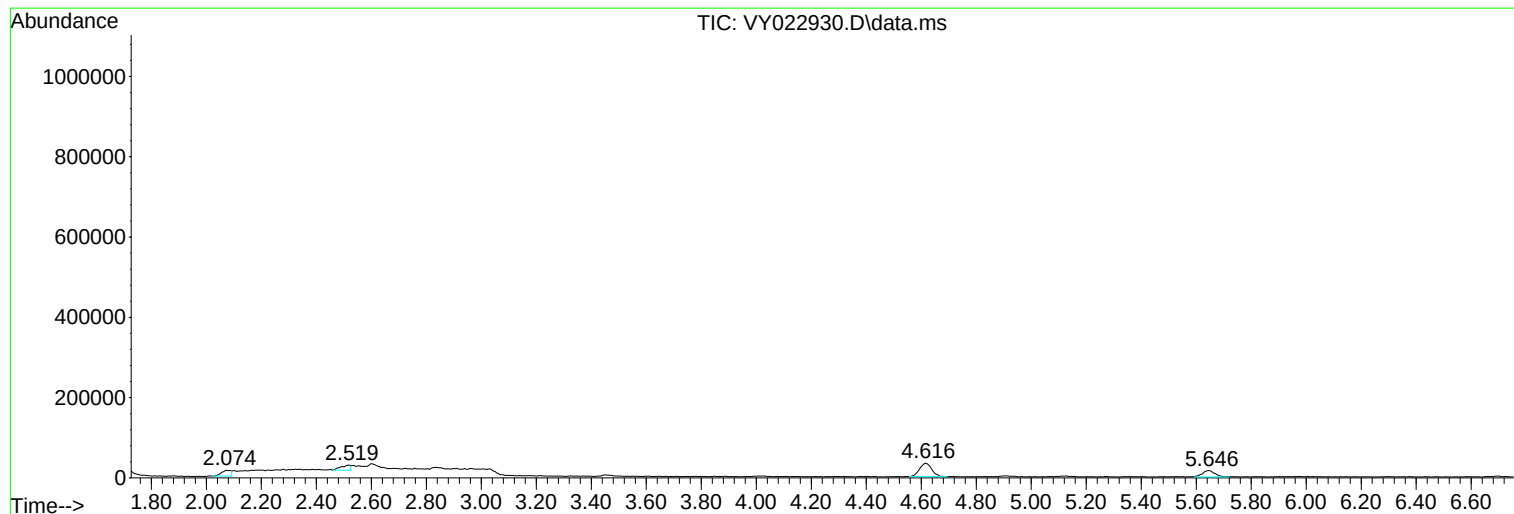
Sum of corrected areas: 10107422

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022930.D
Acq On : 03 Jul 2025 09:57
Operator : SY/MD
Sample : VY0703SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0703SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022930.D
Acq On : 03 Jul 2025 09:57
Operator : SY/MD
Sample : VY0703SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0703SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022930.D
Acq On : 03 Jul 2025 09:57
Operator : SY/MD
Sample : VY0703SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0703SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBS01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046873.D	1	07/03/25 09:56	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		0.22	1.00	ug/L
74-87-3	Chloromethane	19.0		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.7		0.26	1.00	ug/L
74-83-9	Bromomethane	20.5		1.40	5.00	ug/L
75-00-3	Chloroethane	18.2		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.2		0.23	1.00	ug/L
67-64-1	Acetone	86.7		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	18.0		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	19.3		0.27	1.00	ug/L
75-09-2	Methylene Chloride	18.5		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.2		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.2		1.50	5.00	ug/L
78-93-3	2-Butanone	93.1		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.3		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.0		0.19	1.00	ug/L
74-97-5	Bromochloromethane	16.0		0.22	1.00	ug/L
67-66-3	Chloroform	19.1		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.8		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.6		0.16	1.00	ug/L
71-43-2	Benzene	18.9		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.4		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.6		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.8		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	95.2		0.68	5.00	ug/L
108-88-3	Toluene	19.1		0.14	1.00	ug/L

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VX0703WBS01		SDG No.:	Q2458
Lab Sample ID:	VX0703WBS01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046873.D	1	07/03/25 09:56	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.4		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.5		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.1		0.21	1.00	ug/L
591-78-6	2-Hexanone	92.1		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	18.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.6		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	18.5		0.23	1.00	ug/L
108-90-7	Chlorobenzene	18.6		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.9		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	38.0		0.24	2.00	ug/L
95-47-6	o-Xylene	18.7		0.12	1.00	ug/L
100-42-5	Styrene	19.3		0.15	1.00	ug/L
75-25-2	Bromoform	18.3		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	18.6		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.2		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.4		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.0		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.5		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.6		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.8		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.9		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.9		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	49.6		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	381000	5.562			
540-36-3	1,4-Difluorobenzene	632000	6.769			
3114-55-4	Chlorobenzene-d5	573000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	294000	12.018			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBS01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046873.D	1	07/03/25 09:56	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046873.D
 Acq On : 03 Jul 2025 09:56
 Operator : JC/MD
 Sample : VX0703WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0703WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/07/2025
 Supervised By : Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:26:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	380935	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	631809	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	572542	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	293826	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	250995	49.875	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	99.740%
35) Dibromofluoromethane	5.397	113	210542	49.092	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.180%
50) Toluene-d8	8.646	98	750632	49.607	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.220%
62) 4-Bromofluorobenzene	11.079	95	291553	50.697	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.184	85	68036	18.675	ug/l	97
3) Chloromethane	1.306	50	75722	19.024	ug/l	98
4) Vinyl Chloride	1.386	62	80875	18.658	ug/l	97
5) Bromomethane	1.629	94	57067	20.491	ug/l	95
6) Chloroethane	1.709	64	51958	18.153	ug/l	97
7) Trichlorofluoromethane	1.910	101	125782	18.767	ug/l	100
8) Diethyl Ether	2.148	74	44233	18.546	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	80482	18.845	ug/l	99
10) Methyl Iodide	2.471	142	81435	17.503	ug/l	95
11) Tert butyl alcohol	2.952	59	29156	88.336	ug/l	99
12) 1,1-Dichloroethene	2.337	96	75156	18.194	ug/l	99
13) Acrolein	2.251	56	32484	90.891	ug/l	98
14) Allyl chloride	2.684	41	135287	18.396	ug/l	99
15) Acrylonitrile	3.074	53	177334	92.929	ug/l	99
16) Acetone	2.385	43	135535	86.703	ug/l	99
17) Carbon Disulfide	2.532	76	194647	17.968	ug/l	99
18) Methyl Acetate	2.715	43	79351	19.259	ug/l	98
19) Methyl tert-butyl Ether	3.123	73	220287	18.885	ug/l	100
20) Methylene Chloride	2.806	84	85406	18.476	ug/l	97
21) trans-1,2-Dichloroethene	3.111	96	80998	19.163	ug/l	92
22) Diisopropyl ether	3.769	45	278055	19.570	ug/l	91
23) Vinyl Acetate	3.733	43	1002297	94.162	ug/l	100
24) 1,1-Dichloroethane	3.629	63	153606	18.957	ug/l	98
25) 2-Butanone	4.568	43	194141	93.086	ug/l	98
26) 2,2-Dichloropropane	4.495	77	109423	18.145	ug/l	98
27) cis-1,2-Dichloroethene	4.507	96	98001	18.990	ug/l	99
28) Bromochloromethane	4.909	49	63945	15.990	ug/l	99
29) Tetrahydrofuran	5.013	42	125617	94.485	ug/l	99
30) Chloroform	5.104	83	157900	19.074	ug/l	99
31) Cyclohexane	5.488	56	138302	19.226	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	130237	18.831	ug/l	99
36) 1,1-Dichloropropene	5.708	75	104793	18.110	ug/l	98
37) Ethyl Acetate	4.726	43	81519	16.541	ug/l	96
38) Carbon Tetrachloride	5.690	117	111817	18.278	ug/l	96
39) Methylcyclohexane	7.385	83	134672	18.606	ug/l	95
40) Benzene	6.049	78	331479	18.939	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046873.D
 Acq On : 03 Jul 2025 09:56
 Operator : JC/MD
 Sample : VX0703WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0703WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/07/2025
 Supervised By : Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:26:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	49384	18.784	ug/l	95
42) 1,2-Dichloroethane	6.092	62	110414	18.579	ug/l	99
43) Isopropyl Acetate	6.348	43	142626	18.894	ug/l	100
44) Trichloroethene	7.135	130	83932	18.422	ug/l	99
45) 1,2-Dichloropropane	7.433	63	82453	18.647	ug/l	100
46) Dibromomethane	7.586	93	56307	18.378	ug/l	97
47) Bromodichloromethane	7.823	83	122976	18.798	ug/l	97
48) Methyl methacrylate	7.695	41	72971	18.721	ug/l	99
49) 1,4-Dioxane	7.665	88	16908	374.371	ug/l #	91
51) 4-Methyl-2-Pentanone	8.573	43	424297	95.238	ug/l	99
52) Toluene	8.720	92	207111	19.096	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	107683	18.444	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	123427	18.521	ug/l	97
55) 1,1,2-Trichloroethane	9.152	97	77121	19.091	ug/l	97
56) Ethyl methacrylate	9.116	69	105762	18.916	ug/l	99
57) 1,3-Dichloropropane	9.311	76	132209	19.007	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	274129	87.015	ug/l	100
59) 2-Hexanone	9.427	43	272293	92.144	ug/l	99
60) Dibromochloromethane	9.518	129	89907	18.597	ug/l	100
61) 1,2-Dibromoethane	9.610	107	75647	18.646	ug/l	100
64) Tetrachloroethene	9.274	164	70534	18.503	ug/l	95
65) Chlorobenzene	10.079	112	230093	18.588	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.158	131	77000	18.504	ug/l	98
67) Ethyl Benzene	10.195	91	400024	18.870	ug/l	98
68) m/p-Xylenes	10.299	106	303388	37.980	ug/l	99
69) o-Xylene	10.640	106	144569	18.736	ug/l	99
70) Styrene	10.652	104	255321	19.340	ug/l	100
71) Bromoform	10.799	173	56499	18.260	ug/l	100
73) Isopropylbenzene	10.963	105	384896	18.634	ug/l	100
74) N-amyl acetate	10.841	43	127048	18.101	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	103145	18.161	ug/l	99
76) 1,2,3-Trichloropropane	11.237	75	80806m	17.799	ug/l	
77) Bromobenzene	11.195	156	93265	18.128	ug/l	98
78) n-propylbenzene	11.298	91	461151	18.516	ug/l	100
79) 2-Chlorotoluene	11.359	91	274010	18.632	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	314655	18.748	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	28155	16.642	ug/l	96
82) 4-Chlorotoluene	11.451	91	317541	18.711	ug/l	98
83) tert-Butylbenzene	11.713	119	326204	18.819	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	318339	18.766	ug/l	96
85) sec-Butylbenzene	11.890	105	411978	18.850	ug/l	100
86) p-Isopropyltoluene	12.006	119	340932	18.628	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	177009	18.396	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	180023	17.977	ug/l	99
89) n-Butylbenzene	12.329	91	317598	18.468	ug/l	99
90) Hexachloroethane	12.536	117	56665	17.465	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	172751	18.527	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	17485	17.601	ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	112828	17.812	ug/l	99
94) Hexachlorobutadiene	13.719	225	44266	18.530	ug/l	100
95) Naphthalene	13.774	128	308131	18.460	ug/l	100
96) 1,2,3-Trichlorobenzene	13.956	180	107332	17.933	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046873.D
Acq On : 03 Jul 2025 09:56
Operator : JC/MD
Sample : VX0703WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0703WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:26:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

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

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

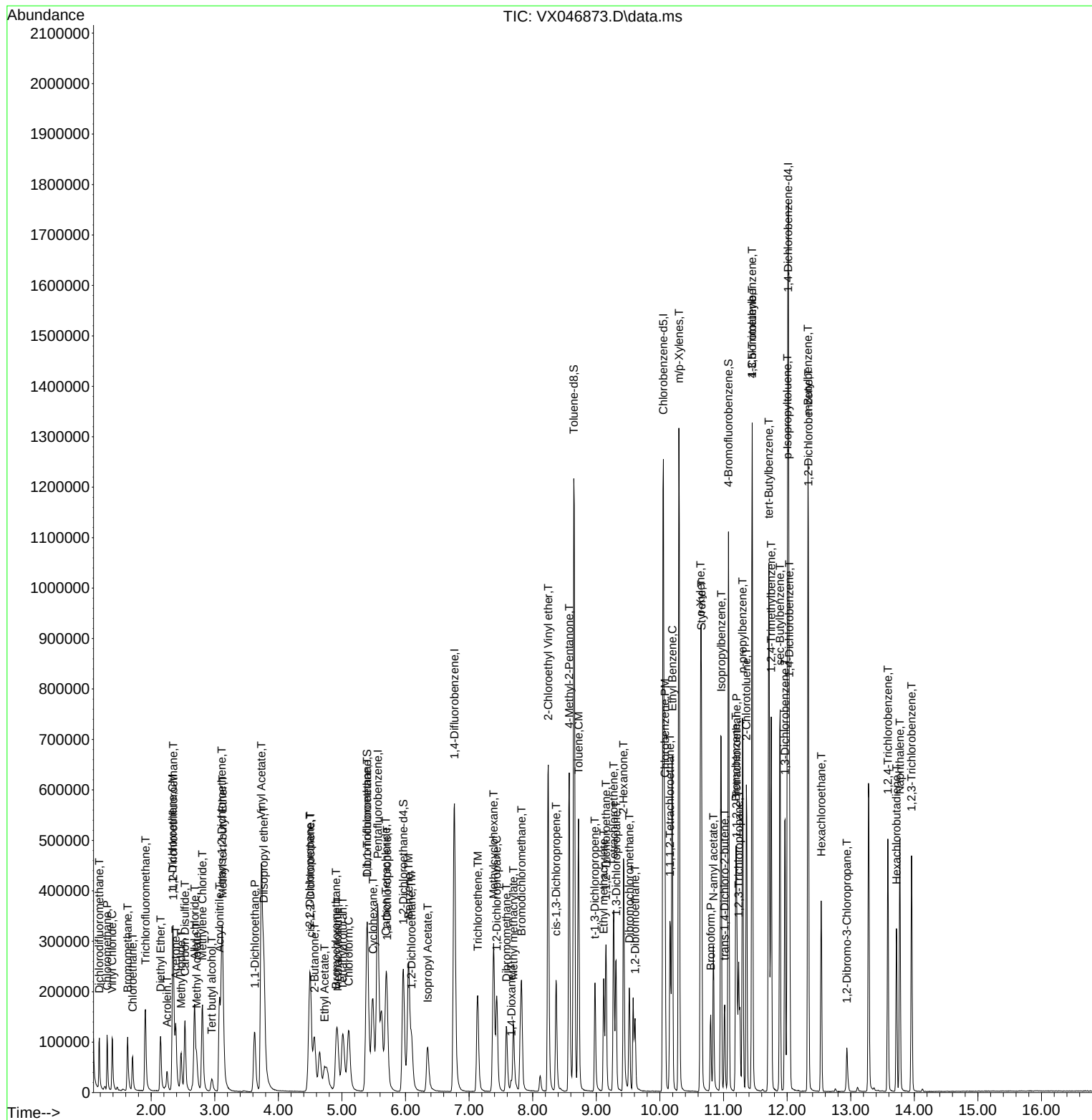
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046873.D
Acq On : 03 Jul 2025 09:56
Operator : JC/MD
Sample : VX0703WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0703WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:26:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022874.D	1	06/30/25 12:09	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.1		1.10	5.00	ug/Kg
74-87-3	Chloromethane	21.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.4		0.79	5.00	ug/Kg
74-83-9	Bromomethane	20.1		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.2		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.7		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.6		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.8		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.5		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	21.7		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.2		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.4		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.0		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.0		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.6		1.20	5.00	ug/Kg
67-66-3	Chloroform	19.9		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	21.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	19.6		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	90.8		3.60	25.0	ug/Kg
108-88-3	Toluene	19.7		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022874.D	1	06/30/25 12:09	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.8		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.8		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.1		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	98.0		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	18.7		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.6		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.3		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.2		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.82	5.00	ug/Kg
100-42-5	Styrene	19.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.3		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.6		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.3		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.1		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.5		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.6		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	48.5		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		17 - 146	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	474000	7.707			
540-36-3	1,4-Difluorobenzene	796000	8.616			
3114-55-4	Chlorobenzene-d5	674000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	318000	13.34			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022874.D	1	06/30/25 12:09	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022874.D
 Acq On : 30 Jun 2025 12:09
 Operator : SY/MD
 Sample : VY0630SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0630SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
 Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:35:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	473861	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	796065	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	673720	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	318118	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	246667	46.640	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	93.280%
35) Dibromofluoromethane	7.634	113	232610	48.047	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.100%
50) Toluene-d8	10.103	98	932142	48.522	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.040%
62) 4-Bromofluorobenzene	12.402	95	290126	46.979	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	93.960%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	81579	20.133	ug/l	95
3) Chloromethane	2.068	50	168156	21.733	ug/l	98
4) Vinyl Chloride	2.202	62	187583	19.405	ug/l	100
5) Bromomethane	2.592	94	152651	20.087	ug/l	98
6) Chloroethane	2.733	64	124906	19.223	ug/l	97
7) Trichlorofluoromethane	3.050	101	199758	18.663	ug/l	97
8) Diethyl Ether	3.452	74	54671	20.680	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	101678	20.787	ug/l	97
10) Methyl Iodide	4.007	142	95282	17.891	ug/l	98
11) Tert butyl alcohol	4.866	59	28096	79.894	ug/l #	94
12) 1,1-Dichloroethene	3.787	96	98700	20.578	ug/l	96
13) Acrolein	3.659	56	37048	77.691	ug/l	100
14) Allyl chloride	4.385	41	153359	20.788	ug/l	93
15) Acrylonitrile	5.055	53	101171	91.723	ug/l	98
16) Acetone	3.873	43	131012	131.062	ug/l	97
17) Carbon Disulfide	4.104	76	314458	20.294	ug/l	99
18) Methyl Acetate	4.385	43	61372	18.539	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	245086	18.766	ug/l	97
20) Methylene Chloride	4.616	84	137274	21.745	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	110712	20.197	ug/l	99
22) Diisopropyl ether	6.019	45	335512	20.478	ug/l	99
23) Vinyl Acetate	5.958	43	879611	97.210	ug/l	100
24) 1,1-Dichloroethane	5.915	63	201549	20.366	ug/l	99
25) 2-Butanone	6.896	43	153773	105.696	ug/l	99
26) 2,2-Dichloropropane	6.884	77	173634	20.931	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	127099	19.953	ug/l	99
28) Bromochloromethane	7.244	49	81472	19.582	ug/l	99
29) Tetrahydrofuran	7.262	42	80642	87.781	ug/l	98
30) Chloroform	7.421	83	202836	19.900	ug/l	96
31) Cyclohexane	7.701	56	188855	20.790	ug/l	93
32) 1,1,1-Trichloroethane	7.616	97	177823	20.188	ug/l	99
36) 1,1-Dichloropropene	7.835	75	149601	20.387	ug/l	100
37) Ethyl Acetate	6.982	43	59183	18.690	ug/l	98
38) Carbon Tetrachloride	7.817	117	154719	19.982	ug/l	99
39) Methylcyclohexane	9.109	83	199958	21.056	ug/l	98
40) Benzene	8.079	78	454171	20.130	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022874.D
 Acq On : 30 Jun 2025 12:09
 Operator : SY/MD
 Sample : VY0630SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0630SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
 Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:35:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	39709m	20.370	ug/l	
42) 1,2-Dichloroethane	8.158	62	120093	19.425	ug/l	100
43) Isopropyl Acetate	8.195	43	119771	18.199	ug/l	97
44) Trichloroethene	8.866	130	111139	19.620	ug/l	100
45) 1,2-Dichloropropane	9.140	63	106975	20.259	ug/l	99
46) Dibromomethane	9.231	93	56637	18.894	ug/l	98
47) Bromodichloromethane	9.420	83	150271	19.441	ug/l	95
48) Methyl methacrylate	9.219	41	59643	18.851	ug/l	94
49) 1,4-Dioxane	9.231	88	12154	343.190	ug/l	96
51) 4-Methyl-2-Pentanone	10.000	43	303806	90.839	ug/l	97
52) Toluene	10.170	92	280772	19.726	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	130634	18.784	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	159876	19.826	ug/l	95
55) 1,1,2-Trichloroethane	10.567	97	74323	19.148	ug/l	96
56) Ethyl methacrylate	10.438	69	91289	17.481	ug/l	96
57) 1,3-Dichloropropane	10.713	76	130214	19.228	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	234626	95.786	ug/l	100
59) 2-Hexanone	10.755	43	222895	98.027	ug/l	97
60) Dibromochloromethane	10.908	129	93786	18.706	ug/l	98
61) 1,2-Dibromoethane	11.012	107	67569	18.603	ug/l	96
64) Tetrachloroethene	10.646	164	116386	18.286	ug/l	97
65) Chlorobenzene	11.438	112	294335	19.882	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.511	131	96547	19.255	ug/l	97
67) Ethyl Benzene	11.518	91	523513	20.127	ug/l	96
68) m/p-Xylenes	11.627	106	404642	40.245	ug/l	99
69) o-Xylene	11.950	106	187284	19.768	ug/l	99
70) Styrene	11.963	104	308353	19.431	ug/l	100
71) Bromoform	12.127	173	50967	18.255	ug/l #	99
73) Isopropylbenzene	12.249	105	496473	21.102	ug/l	100
74) N-amyl acetate	12.066	43	97501	18.463	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	77986	20.567	ug/l	96
76) 1,2,3-Trichloropropane	12.554	75	63271m	19.482	ug/l	
77) Bromobenzene	12.530	156	105166	19.721	ug/l	99
78) n-propylbenzene	12.591	91	607697	21.394	ug/l	99
79) 2-Chlorotoluene	12.676	91	337030	21.001	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	398274	20.970	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.298	75	24930	19.393	ug/l	100
82) 4-Chlorotoluene	12.773	91	346461	20.553	ug/l	100
83) tert-Butylbenzene	12.993	119	353292	21.092	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	396586	20.856	ug/l	99
85) sec-Butylbenzene	13.170	105	544778	21.617	ug/l	99
86) p-Isopropyltoluene	13.286	119	443417	21.143	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	217638	20.321	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	213622	20.080	ug/l	99
89) n-Butylbenzene	13.615	91	421238	21.353	ug/l	99
90) Hexachloroethane	13.877	117	89754	21.488	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	184038	19.499	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	11596	18.034	ug/l	96
93) 1,2,4-Trichlorobenzene	14.913	180	104685	19.645	ug/l	97
94) Hexachlorobutadiene	15.017	225	61502	20.410	ug/l	99
95) Naphthalene	15.139	128	164827	17.104	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	87329	18.965	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022874.D
Acq On : 30 Jun 2025 12:09
Operator : SY/MD
Sample : VY0630SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:35:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

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

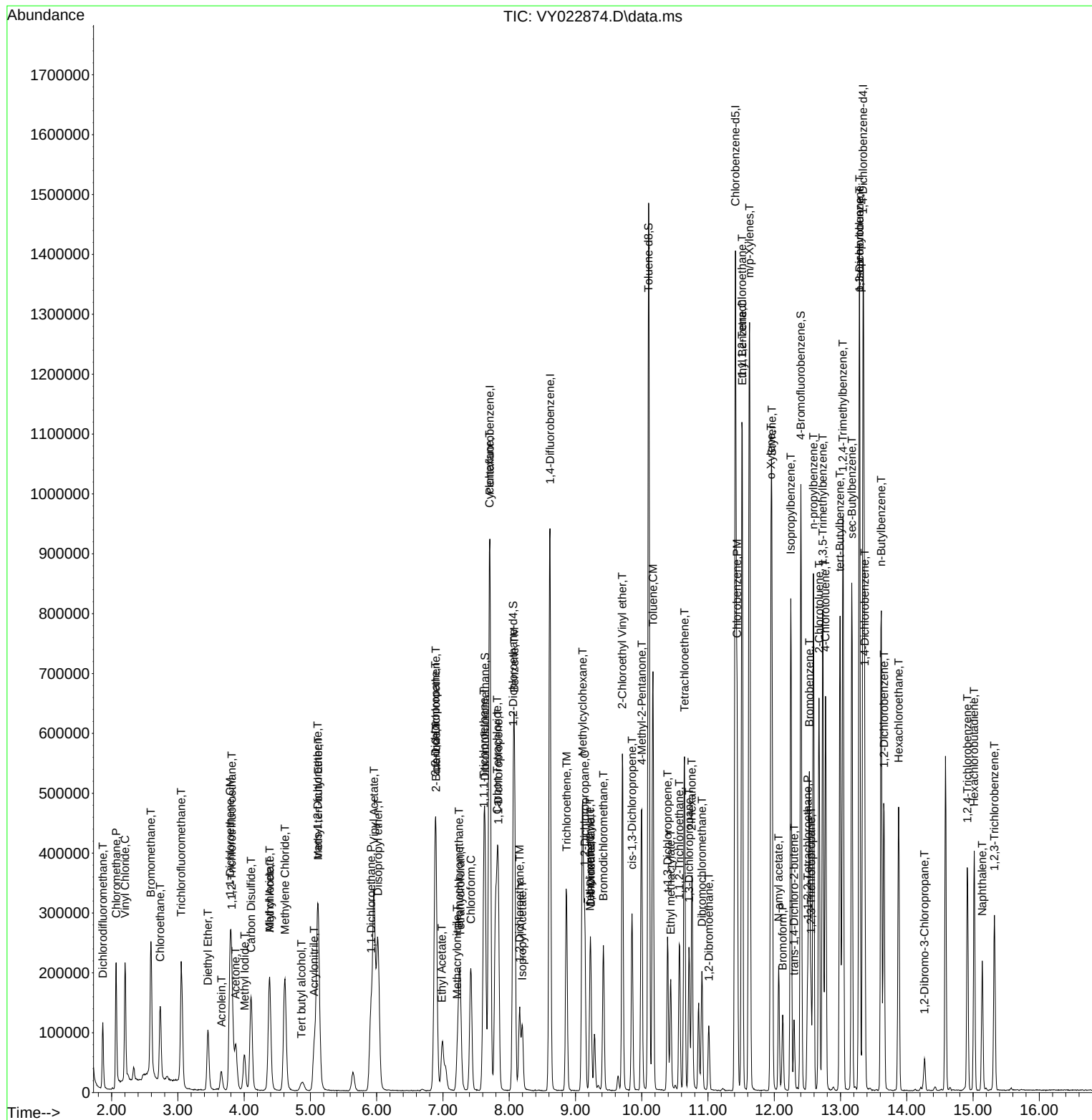
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022874.D
 Acq On : 30 Jun 2025 12:09
 Operator : SY/MD
 Sample : VY0630SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0630SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
 Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:35:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0701SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0701SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022893.D	1	07/01/25 11:34	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.3		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.6		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.9		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.7		1.20	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	20.5		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.4		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	22.2		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.2		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.6		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.0		0.79	5.00	ug/Kg
78-93-3	2-Butanone	120		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.3		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.9		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.3		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.6		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.3		0.91	5.00	ug/Kg
71-43-2	Benzene	20.3		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		3.60	25.0	ug/Kg
108-88-3	Toluene	20.0		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0701SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0701SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022893.D	1	07/01/25 11:34	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.7		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.1		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.9		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.6		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.7		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.2		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.9		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.9		0.82	5.00	ug/Kg
100-42-5	Styrene	19.7		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.9		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.7		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.6		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	49.2		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		17 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	427000	7.707			
540-36-3	1,4-Difluorobenzene	723000	8.616			
3114-55-4	Chlorobenzene-d5	617000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	293000	13.34			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0701SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0701SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022893.D	1	07/01/25 11:34	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022893.D
 Acq On : 01 Jul 2025 11:34
 Operator : SY/MD
 Sample : VY0701SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0701SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/02/2025
 Supervised By :Semsettin Yesilyurt 07/02/2025

Quant Time: Jul 02 02:43:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	427188	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	723243	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	617191	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	293207	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	234701	49.226	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.460%
35) Dibromofluoromethane	7.628	113	213869	48.624	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.240%
50) Toluene-d8	10.103	98	857985	49.158	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.320%
62) 4-Bromofluorobenzene	12.402	95	266088	47.425	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	94.840%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	75087	20.555	ug/l	96
3) Chloromethane	2.068	50	141899	20.343	ug/l	100
4) Vinyl Chloride	2.202	62	171173	19.642	ug/l	100
5) Bromomethane	2.592	94	149158	21.772	ug/l	96
6) Chloroethane	2.733	64	116384	19.868	ug/l	94
7) Trichlorofluoromethane	3.050	101	189847	19.675	ug/l	100
8) Diethyl Ether	3.452	74	51645	21.670	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.812	101	92663	21.013	ug/l	98
10) Methyl Iodide	3.995	142	86971	18.115	ug/l	99
11) Tert butyl alcohol	4.860	59	31925	100.701	ug/l	99
12) 1,1-Dichloroethene	3.787	96	88726	20.520	ug/l	100
13) Acrolein	3.653	56	34410	80.043	ug/l	99
14) Allyl chloride	4.385	41	139762	21.014	ug/l	94
15) Acrylonitrile	5.055	53	105204	105.800	ug/l	98
16) Acetone	3.873	43	119307	132.393	ug/l	100
17) Carbon Disulfide	4.098	76	282866	20.250	ug/l	99
18) Methyl Acetate	4.385	43	60909	20.409	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	242636	20.608	ug/l	100
20) Methylene Chloride	4.610	84	126391	22.209	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	99989	20.233	ug/l	98
22) Diisopropyl ether	6.012	45	313799	21.246	ug/l	97
23) Vinyl Acetate	5.958	43	862225	105.700	ug/l	98
24) 1,1-Dichloroethane	5.915	63	184056	20.631	ug/l	99
25) 2-Butanone	6.890	43	153046	116.689	ug/l	98
26) 2,2-Dichloropropane	6.878	77	155880	20.844	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	116789	20.338	ug/l	98
28) Bromochloromethane	7.238	49	78517	20.934	ug/l	97
29) Tetrahydrofuran	7.256	42	87134	105.211	ug/l	99
30) Chloroform	7.421	83	186942	20.344	ug/l	93
31) Cyclohexane	7.701	56	171764	20.974	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	163409	20.579	ug/l	99
36) 1,1-Dichloropropene	7.835	75	136764	20.514	ug/l	99
37) Ethyl Acetate	6.982	43	60723	21.107	ug/l	97
38) Carbon Tetrachloride	7.817	117	139252	19.796	ug/l	94
39) Methylcyclohexane	9.103	83	175363	20.326	ug/l	99
40) Benzene	8.079	78	416539	20.321	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022893.D
 Acq On : 01 Jul 2025 11:34
 Operator : SY/MD
 Sample : VY0701SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0701SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/02/2025
 Supervised By :Semsettin Yesilyurt 07/02/2025

Quant Time: Jul 02 02:43:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	32568m	18.389	ug/l	
42) 1,2-Dichloroethane	8.152	62	115557	20.573	ug/l	99
43) Isopropyl Acetate	8.195	43	123651	20.680	ug/l #	86
44) Trichloroethene	8.866	130	105043	20.411	ug/l	91
45) 1,2-Dichloropropane	9.140	63	99144	20.666	ug/l	99
46) Dibromomethane	9.231	93	54098	19.865	ug/l	97
47) Bromodichloromethane	9.420	83	141982	20.218	ug/l	96
48) Methyl methacrylate	9.219	41	60373	21.003	ug/l	95
49) 1,4-Dioxane	9.231	88	13098	407.085	ug/l	98
51) 4-Methyl-2-Pentanone	9.993	43	319545	105.165	ug/l	98
52) Toluene	10.170	92	259001	20.028	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	124574	19.716	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	147214	20.094	ug/l	97
55) 1,1,2-Trichloroethane	10.567	97	69435	19.690	ug/l	96
56) Ethyl methacrylate	10.438	69	93214	19.647	ug/l	96
57) 1,3-Dichloropropane	10.713	76	125345	20.373	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	236646	104.614	ug/l	99
59) 2-Hexanone	10.756	43	226074	109.436	ug/l	99
60) Dibromochloromethane	10.908	129	90724	19.917	ug/l	98
61) 1,2-Dibromoethane	11.012	107	64776	19.630	ug/l	99
64) Tetrachloroethene	10.646	164	120797	20.718	ug/l	98
65) Chlorobenzene	11.438	112	273997	20.204	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	89053	19.387	ug/l	97
67) Ethyl Benzene	11.518	91	479730	20.133	ug/l	99
68) m/p-Xylenes	11.627	106	367192	39.865	ug/l	100
69) o-Xylene	11.950	106	172436	19.868	ug/l	100
70) Styrene	11.969	104	286666	19.719	ug/l	100
71) Bromoform	12.127	173	49004	19.160	ug/l #	99
73) Isopropylbenzene	12.249	105	452872	20.884	ug/l	100
74) N-amyl acetate	12.066	43	102872	21.135	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.499	83	70197	20.086	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	51741m	17.285	ug/l	
77) Bromobenzene	12.530	156	99630	20.270	ug/l	99
78) n-propylbenzene	12.591	91	552037	21.085	ug/l	99
79) 2-Chlorotoluene	12.676	91	304917	20.614	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	364349	20.814	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	24227	20.447	ug/l	97
82) 4-Chlorotoluene	12.773	91	312723	20.127	ug/l	100
83) tert-Butylbenzene	12.993	119	327710	21.227	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	357535	20.400	ug/l	99
85) sec-Butylbenzene	13.170	105	483323	20.808	ug/l	98
86) p-Isopropyltoluene	13.286	119	399389	20.662	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	196443	19.900	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	195738	19.962	ug/l	99
89) n-Butylbenzene	13.615	91	375526	20.653	ug/l	99
90) Hexachloroethane	13.877	117	79230	20.580	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	172243	19.800	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	12276	20.713	ug/l	94
93) 1,2,4-Trichlorobenzene	14.913	180	94298	19.199	ug/l	97
94) Hexachlorobutadiene	15.017	225	53823	19.379	ug/l	99
95) Naphthalene	15.139	128	166356	18.730	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	78801	18.567	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
Data File : VY022893.D
Acq On : 01 Jul 2025 11:34
Operator : SY/MD
Sample : VY0701SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0701SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/02/2025
Supervised By :Semsettin Yesilyurt 07/02/2025

Quant Time: Jul 02 02:43:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

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

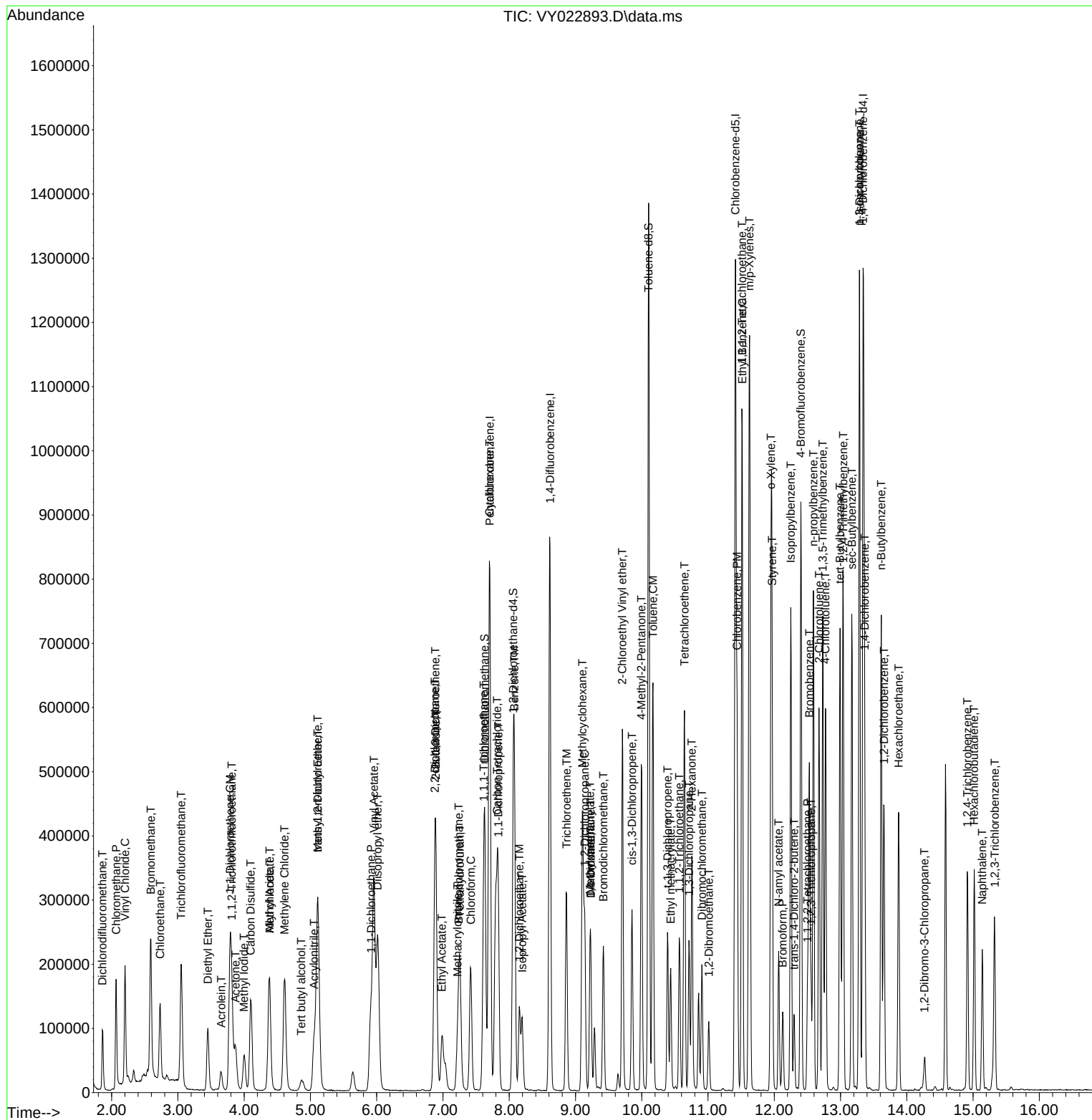
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022893.D
 Acq On : 01 Jul 2025 11:34
 Operator : SY/MD
 Sample : VY0701SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/soil
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0701SBS01

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 07/02/2025
 Supervised By : Semsettin Yesilyurt 07/02/2025

Quant Time: Jul 02 02:43:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0702SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0702SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
	ID :	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022905.D	1	07/02/25 12:12	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.9		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.4		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.9		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.7		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.6		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	22.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.0		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	97.2		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.5		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.2		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.2		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.7		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.8		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.6		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.0		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	19.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.8		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.8		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	89.3		3.60	25.0	ug/Kg
108-88-3	Toluene	20.1		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0702SBS01		SDG No.:	Q2458
Lab Sample ID:	VY0702SBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022905.D	1	07/02/25 12:12	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.2		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	90.1		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	18.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.3		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.7		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.4		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.6		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.0		0.82	5.00	ug/Kg
100-42-5	Styrene	19.7		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.4		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.8		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.8		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.4		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.3		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.4		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	51.9		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		17 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	425000	7.707			
540-36-3	1,4-Difluorobenzene	714000	8.616			
3114-55-4	Chlorobenzene-d5	598000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	275000	13.346			



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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0702SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0702SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022905.D	1	07/02/25 12:12	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022905.D
 Acq On : 02 Jul 2025 12:12
 Operator : SY/MD
 Sample : VY0702SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0702SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/03/2025
 Supervised By :Semsettin Yesilyurt 07/03/2025

Quant Time: Jul 03 02:18:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	424569	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	714057	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	598160	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	274634	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	235952	49.793	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.580%		
35) Dibromofluoromethane	7.634	113	225723	51.979	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	103.960%		
50) Toluene-d8	10.109	98	894461	51.907	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	103.820%		
62) 4-Bromofluorobenzene	12.401	95	270945	48.912	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	97.820%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	73759	20.316	ug/l	96
3) Chloromethane	2.068	50	157084	22.659	ug/l	99
4) Vinyl Chloride	2.202	62	174099	20.101	ug/l	99
5) Bromomethane	2.592	94	148843	21.860	ug/l	99
6) Chloroethane	2.732	64	123901	21.282	ug/l	97
7) Trichlorofluoromethane	3.050	101	185784	19.372	ug/l	95
8) Diethyl Ether	3.452	74	49188	20.766	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	91614	20.904	ug/l	98
10) Methyl Iodide	4.001	142	88307	18.506	ug/l	100
11) Tert butyl alcohol	4.897	59	25331	80.394	ug/l	96
12) 1,1-Dichloroethene	3.787	96	88873	20.680	ug/l	95
13) Acrolein	3.653	56	30982	72.514	ug/l	98
14) Allyl chloride	4.385	41	140059	21.189	ug/l	94
15) Acrylonitrile	5.061	53	91750	92.839	ug/l	99
16) Acetone	3.879	43	96673	107.938	ug/l	96
17) Carbon Disulfide	4.104	76	285725	20.581	ug/l	99
18) Methyl Acetate	4.385	43	50397	16.991	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	222175	18.987	ug/l	97
20) Methylene Chloride	4.610	84	124394	21.993	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	100601	20.483	ug/l	99
22) Diisopropyl ether	6.025	45	308336	21.004	ug/l	96
23) Vinyl Acetate	5.964	43	812436	100.210	ug/l	99
24) 1,1-Dichloroethane	5.915	63	186164	20.996	ug/l	99
25) 2-Butanone	6.896	43	126649	97.159	ug/l	98
26) 2,2-Dichloropropane	6.884	77	158500	21.325	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	115091	20.166	ug/l	97
28) Bromochloromethane	7.244	49	75134	20.155	ug/l	97
29) Tetrahydrofuran	7.268	42	73905	89.788	ug/l	99
30) Chloroform	7.421	83	188954	20.690	ug/l	94
31) Cyclohexane	7.701	56	172610	21.207	ug/l	93
32) 1,1,1-Trichloroethane	7.622	97	164400	20.831	ug/l	99
36) 1,1-Dichloropropene	7.835	75	136737	20.774	ug/l	99
37) Ethyl Acetate	6.988	43	55440	19.519	ug/l	97
38) Carbon Tetrachloride	7.817	117	142274	20.485	ug/l	99
39) Methylcyclohexane	9.109	83	175349	20.586	ug/l	97
40) Benzene	8.079	78	417754	20.643	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
 Data File : VY022905.D
 Acq On : 02 Jul 2025 12:12
 Operator : SY/MD
 Sample : VY0702SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0702SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/03/2025
 Supervised By :Semsettin Yesilyurt 07/03/2025

Quant Time: Jul 03 02:18:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	33907	19.391	ug/l #	87
42) 1,2-Dichloroethane	8.158	62	110820	19.983	ug/l	99
43) Isopropyl Acetate	8.201	43	106535	18.047	ug/l	100
44) Trichloroethene	8.866	130	100970	19.872	ug/l	97
45) 1,2-Dichloropropane	9.140	63	98745	20.848	ug/l	93
46) Dibromomethane	9.231	93	50099	18.633	ug/l	95
47) Bromodichloromethane	9.426	83	137237	19.794	ug/l	97
48) Methyl methacrylate	9.219	41	52213	18.398	ug/l	93
49) 1,4-Dioxane	9.237	88	10841	341.272	ug/l	97
51) 4-Methyl-2-Pentanone	9.999	43	267882	89.297	ug/l	97
52) Toluene	10.170	92	256209	20.067	ug/l	98
53) t-1,3-Dichloropropene	10.396	75	120668	19.343	ug/l	96
54) cis-1,3-Dichloropropene	9.859	75	146357	20.234	ug/l	95
55) 1,1,2-Trichloroethane	10.566	97	66898	19.215	ug/l	94
56) Ethyl methacrylate	10.438	69	83593	17.846	ug/l	94
57) 1,3-Dichloropropane	10.713	76	115303	18.982	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	207244	94.563	ug/l	99
59) 2-Hexanone	10.762	43	183863	90.148	ug/l	99
60) Dibromochloromethane	10.908	129	84438	18.776	ug/l	99
61) 1,2-Dibromoethane	11.011	107	59702	18.325	ug/l	98
64) Tetrachloroethene	10.646	164	111566	19.743	ug/l	98
65) Chlorobenzene	11.438	112	267982	20.389	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.518	131	88130	19.797	ug/l	98
67) Ethyl Benzene	11.518	91	475405	20.586	ug/l	100
68) m/p-Xylenes	11.627	106	362056	40.558	ug/l	99
69) o-Xylene	11.950	106	168231	20.000	ug/l	98
70) Styrene	11.969	104	277444	19.692	ug/l	100
71) Bromoform	12.133	173	45687	18.431	ug/l #	97
73) Isopropylbenzene	12.255	105	442479	21.785	ug/l	100
74) N-amyl acetate	12.066	43	89392	19.608	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	68209	20.837	ug/l	96
76) 1,2,3-Trichloropropane	12.554	75	49251m	17.566	ug/l	
77) Bromobenzene	12.530	156	95387	20.719	ug/l	99
78) n-propylbenzene	12.597	91	535170	21.824	ug/l	98
79) 2-Chlorotoluene	12.676	91	301072	21.730	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	352500	21.499	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.304	75	21683	19.538	ug/l	98
82) 4-Chlorotoluene	12.773	91	306721	21.076	ug/l	100
83) tert-Butylbenzene	12.993	119	319348	22.085	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	348148	21.208	ug/l	99
85) sec-Butylbenzene	13.176	105	476969	21.923	ug/l	99
86) p-Isopropyltoluene	13.292	119	388241	21.443	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	188954	20.436	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	188266	20.498	ug/l	98
89) n-Butylbenzene	13.615	91	365542	21.464	ug/l	99
90) Hexachloroethane	13.877	117	78274	21.706	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	164154	20.146	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	10173	18.326	ug/l	94
93) 1,2,4-Trichlorobenzene	14.919	180	84875	18.449	ug/l	98
94) Hexachlorobutadiene	15.023	225	51596	19.833	ug/l	99
95) Naphthalene	15.145	128	135120	16.242	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	71165	17.901	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022905.D
Acq On : 02 Jul 2025 12:12
Operator : SY/MD
Sample : VY0702SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0702SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/03/2025
Supervised By :Semsettin Yesilyurt 07/03/2025

Quant Time: Jul 03 02:18:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

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

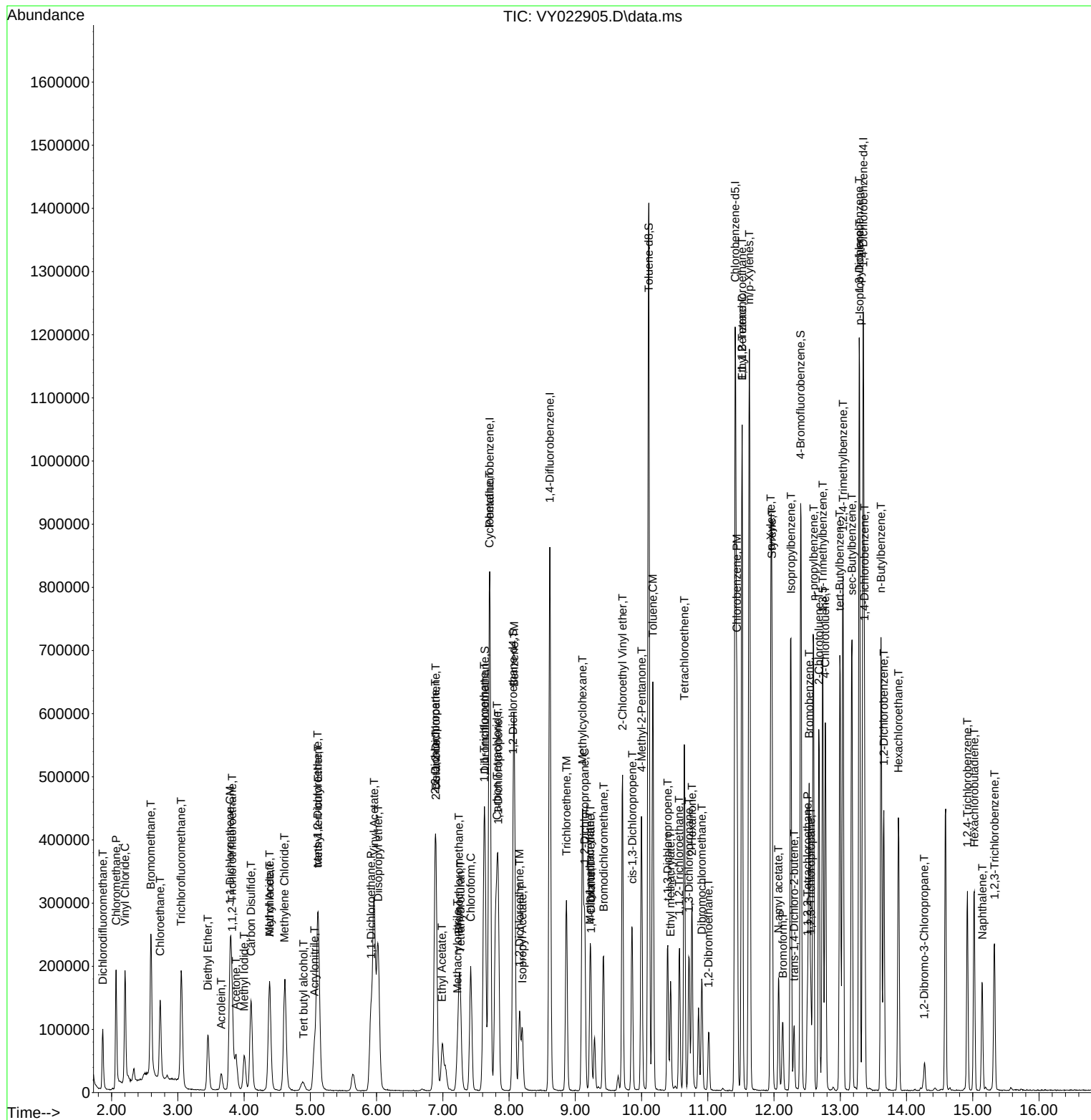
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070225\
Data File : VY022905.D
Acq On : 02 Jul 2025 12:12
Operator : SY/MD
Sample : VY0702SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0702SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/03/2025
Supervised By :Semsettin Yesilyurt 07/03/2025

Quant Time: Jul 03 02:18:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0703SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0703SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
	ID :	Test:	VOC-TCLVOA-10
	0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022931.D	1	07/03/25 10:29	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.1		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	19.6		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.3		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.2		1.00	5.00	ug/Kg
67-64-1	Acetone	140		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.1		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.3		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	16.2		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.6		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.1		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.6		0.91	5.00	ug/Kg
71-43-2	Benzene	21.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	21.2		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.4		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	88.7		3.60	25.0	ug/Kg
108-88-3	Toluene	20.6		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0703SBS01		SDG No.:	Q2458
Lab Sample ID:	VY0703SBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022931.D	1	07/03/25 10:29	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.4		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.4		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	97.3		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.2		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	22.3		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.4		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.4		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.1		0.82	5.00	ug/Kg
100-42-5	Styrene	20.2		0.71	5.00	ug/Kg
75-25-2	Bromoform	17.7		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.8		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.9		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.7		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.6		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.8		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	16.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	51.1		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		17 - 146	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	388000	7.707			
540-36-3	1,4-Difluorobenzene	648000	8.616			
3114-55-4	Chlorobenzene-d5	538000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	252000	13.347			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0703SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0703SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022931.D	1	07/03/25 10:29	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022931.D
 Acq On : 03 Jul 2025 10:29
 Operator : SY/MD
 Sample : VY0703SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0703SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/07/2025
 Supervised By :Semsettin Yesilyurt 07/07/2025

Quant Time: Jul 04 03:15:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	387913	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	648160	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	537972	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	252496	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	209510	48.391	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	96.780%
35) Dibromofluoromethane	7.634	113	199592	50.635	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.260%
50) Toluene-d8	10.109	98	799069	51.086	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.180%
62) 4-Bromofluorobenzene	12.402	95	236501	47.034	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	94.060%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	70580	21.278	ug/l	98
3) Chloromethane	2.068	50	127454	20.122	ug/l	99
4) Vinyl Chloride	2.202	62	159294	20.130	ug/l	98
5) Bromomethane	2.592	94	122010	19.612	ug/l	97
6) Chloroethane	2.733	64	107980	20.300	ug/l	93
7) Trichlorofluoromethane	3.056	101	169518	19.346	ug/l	95
8) Diethyl Ether	3.452	74	45033	20.809	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	87150	21.764	ug/l	98
10) Methyl Iodide	4.001	142	97838	22.441	ug/l	99
11) Tert butyl alcohol	4.854	59	20469	71.102	ug/l #	92
12) 1,1-Dichloroethene	3.787	96	83297	21.214	ug/l	100
13) Acrolein	3.653	56	25473	65.254	ug/l	99
14) Allyl chloride	4.385	41	129036	21.366	ug/l	96
15) Acrylonitrile	5.055	53	84609	93.703	ug/l	99
16) Acetone	3.873	43	111716	136.521	ug/l	100
17) Carbon Disulfide	4.104	76	267737	21.108	ug/l	99
18) Methyl Acetate	4.379	43	43949	16.217	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	195944	18.328	ug/l	98
20) Methylene Chloride	4.610	84	123955	23.986	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	93980	20.943	ug/l	96
22) Diisopropyl ether	6.019	45	283845	21.163	ug/l	98
23) Vinyl Acetate	5.958	43	731439	98.745	ug/l	98
24) 1,1-Dichloroethane	5.915	63	174928	21.593	ug/l	99
25) 2-Butanone	6.890	43	127266	106.858	ug/l	97
26) 2,2-Dichloropropane	6.884	77	149021	21.944	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	107102	20.539	ug/l	98
28) Bromochloromethane	7.244	49	69235	20.328	ug/l	98
29) Tetrahydrofuran	7.268	42	65265	86.784	ug/l	98
30) Chloroform	7.421	83	175044	20.978	ug/l	97
31) Cyclohexane	7.701	56	157776	21.217	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	153070	21.229	ug/l	99
36) 1,1-Dichloropropene	7.835	75	128212	21.459	ug/l	99
37) Ethyl Acetate	6.988	43	50224	19.480	ug/l	99
38) Carbon Tetrachloride	7.823	117	133029	21.102	ug/l	95
39) Methylcyclohexane	9.109	83	159255	20.597	ug/l	97
40) Benzene	8.079	78	393017	21.395	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
 Data File : VY022931.D
 Acq On : 03 Jul 2025 10:29
 Operator : SY/MD
 Sample : VY0703SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0703SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/07/2025
 Supervised By :Semsettin Yesilyurt 07/07/2025

Quant Time: Jul 04 03:15:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	27881	17.566	ug/l	97
42) 1,2-Dichloroethane	8.158	62	103916	20.644	ug/l	98
43) Isopropyl Acetate	8.195	43	95778	17.874	ug/l	99
44) Trichloroethene	8.866	130	97639	21.170	ug/l	98
45) 1,2-Dichloropropane	9.140	63	92009	21.401	ug/l	99
46) Dibromomethane	9.231	93	47317	19.387	ug/l	96
47) Bromodichloromethane	9.420	83	128308	20.387	ug/l	99
48) Methyl methacrylate	9.219	41	47289	18.357	ug/l	95
49) 1,4-Dioxane	9.231	88	9157	317.567	ug/l	98
51) 4-Methyl-2-Pentanone	10.000	43	241570	88.713	ug/l	98
52) Toluene	10.170	92	238824	20.608	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	108776	19.210	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	133699	20.363	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	61407	19.431	ug/l	96
56) Ethyl methacrylate	10.439	69	71109	16.724	ug/l	94
57) 1,3-Dichloropropane	10.719	76	106682	19.348	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	182772	92.321	ug/l	100
59) 2-Hexanone	10.762	43	180193	97.331	ug/l	100
60) Dibromochloromethane	10.914	129	78126	19.139	ug/l	98
61) 1,2-Dibromoethane	11.018	107	53694	18.156	ug/l	100
64) Tetrachloroethene	10.646	164	113322	22.298	ug/l	98
65) Chlorobenzene	11.438	112	246846	20.882	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	83151	20.768	ug/l	99
67) Ethyl Benzene	11.518	91	444341	21.394	ug/l	99
68) m/p-Xylenes	11.627	106	340082	42.359	ug/l	100
69) o-Xylene	11.950	106	152396	20.145	ug/l	97
70) Styrene	11.969	104	255350	20.151	ug/l	100
71) Bromoform	12.133	173	39349	17.650	ug/l #	93
73) Isopropylbenzene	12.255	105	406452	21.766	ug/l	99
74) N-amyl acetate	12.072	43	76832	18.330	ug/l #	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	56862	18.894	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	47637m	18.480	ug/l	
77) Bromobenzene	12.530	156	85396	20.175	ug/l	97
78) n-propylbenzene	12.591	91	501335	22.236	ug/l	99
79) 2-Chlorotoluene	12.676	91	276414	21.700	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	322847	21.417	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	19815	19.420	ug/l	99
82) 4-Chlorotoluene	12.773	91	285435	21.333	ug/l	99
83) tert-Butylbenzene	12.993	119	285631	21.485	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	319638	21.179	ug/l	99
85) sec-Butylbenzene	13.176	105	432243	21.609	ug/l	99
86) p-Isopropyltoluene	13.292	119	352748	21.191	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	175614	20.659	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	173497	20.546	ug/l	99
89) n-Butylbenzene	13.615	91	332530	21.237	ug/l	100
90) Hexachloroethane	13.877	117	71505	21.568	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	146920	19.612	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	9096	17.822	ug/l	91
93) 1,2,4-Trichlorobenzene	14.919	180	74824	17.690	ug/l	98
94) Hexachlorobutadiene	15.023	225	47153	19.715	ug/l	99
95) Naphthalene	15.145	128	116220	15.195	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	61871	16.928	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022931.D
Acq On : 03 Jul 2025 10:29
Operator : SY/MD
Sample : VY0703SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0703SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/07/2025
Supervised By :Semsettin Yesilyurt 07/07/2025

Quant Time: Jul 04 03:15:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

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

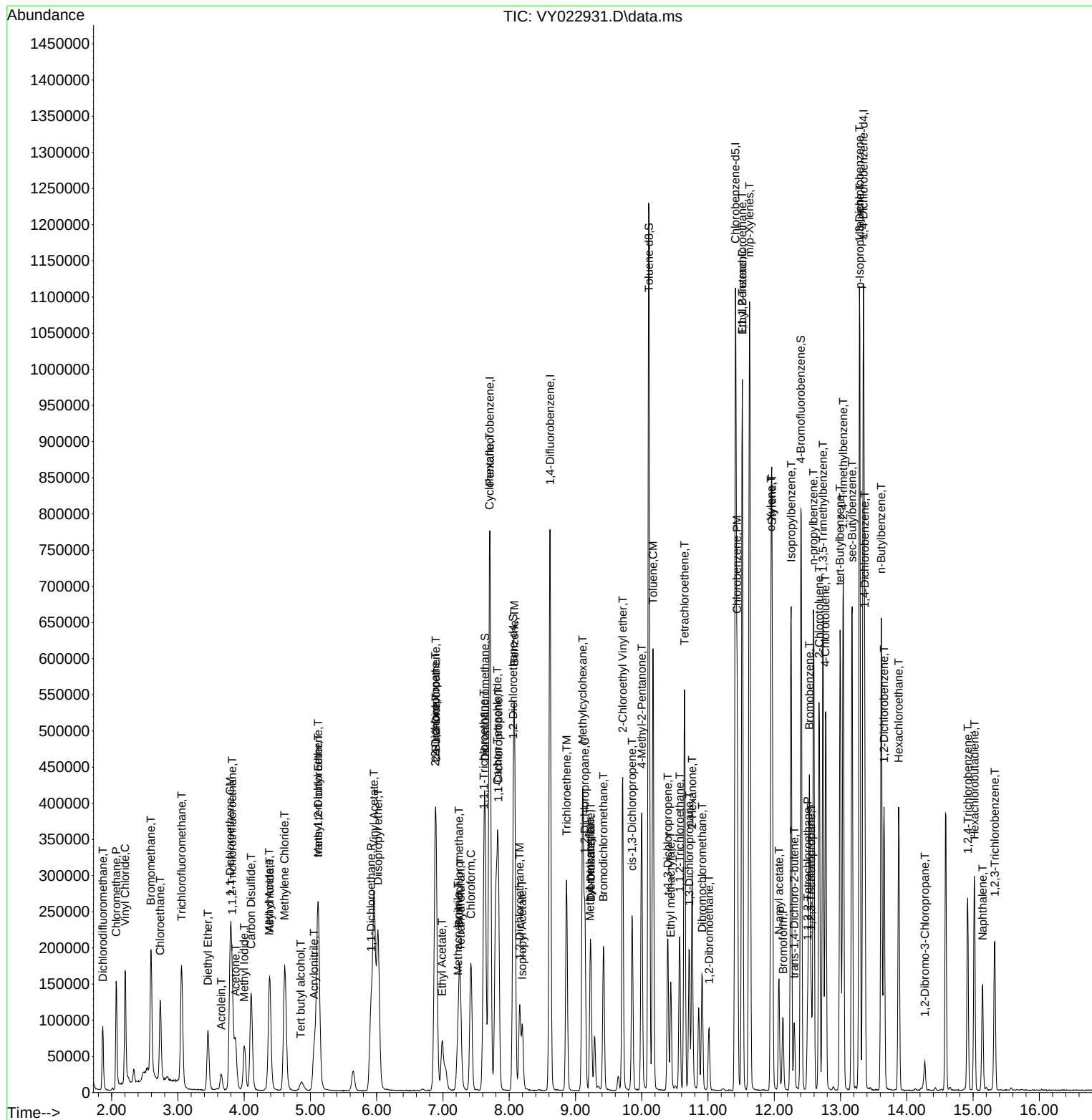
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070325\
Data File : VY022931.D
Acq On : 03 Jul 2025 10:29
Operator : SY/MD
Sample : VY0703SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0703SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/07/2025
Supervised By :Semsettin Yesilyurt 07/07/2025

Quant Time: Jul 04 03:15:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBSD01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046874.D	1	07/03/25 10:23	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		0.22	1.00	ug/L
74-87-3	Chloromethane	19.4		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	19.1		0.26	1.00	ug/L
74-83-9	Bromomethane	20.5		1.40	5.00	ug/L
75-00-3	Chloroethane	18.8		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.5		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	1.00	ug/L
67-64-1	Acetone	91.0		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	18.5		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.5		0.16	1.00	ug/L
79-20-9	Methyl Acetate	20.5		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.9		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.9		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	20.1		1.50	5.00	ug/L
78-93-3	2-Butanone	98.7		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.19	1.00	ug/L
74-97-5	Bromochloromethane	17.5		0.22	1.00	ug/L
67-66-3	Chloroform	20.1		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.3		0.16	1.00	ug/L
71-43-2	Benzene	19.8		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.9		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	20.0		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	5.00	ug/L
108-88-3	Toluene	20.1		0.14	1.00	ug/L

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VX0703WBSD01		SDG No.:	Q2458
Lab Sample ID:	VX0703WBSD01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046874.D	1	07/03/25 10:23	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.8		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.3		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.7		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.0		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.1		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.4		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.7		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.9		0.24	2.00	ug/L
95-47-6	o-Xylene	19.7		0.12	1.00	ug/L
100-42-5	Styrene	20.1		0.15	1.00	ug/L
75-25-2	Bromoform	19.3		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.4		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.8		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.5		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.3		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.5		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	49.3		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		77 - 121	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	340000	5.556			
540-36-3	1,4-Difluorobenzene	568000	6.763			
3114-55-4	Chlorobenzene-d5	518000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	270000	12.018			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBSD01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046874.D	1	07/03/25 10:23	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046874.D
 Acq On : 03 Jul 2025 10:23
 Operator : JC/MD
 Sample : VX0703WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0703WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/07/2025
 Supervised By : Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:27:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	339915	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	568093	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	517645	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	269874	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	230519	51.334	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.660%			
35) Dibromofluoromethane	5.391	113	191861	49.754	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.500%			
50) Toluene-d8	8.647	98	671040	49.321	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.640%			
62) 4-Bromofluorobenzene	11.079	95	264089	51.072	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.140%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.179	85	62729	19.296	ug/l	98
3) Chloromethane	1.307	50	69050	19.441	ug/l	98
4) Vinyl Chloride	1.386	62	73973	19.126	ug/l	97
5) Bromomethane	1.630	94	51002	20.523	ug/l	97
6) Chloroethane	1.703	64	48021	18.803	ug/l	94
7) Trichlorofluoromethane	1.904	101	116515	19.483	ug/l	98
8) Diethyl Ether	2.142	74	43182	20.290	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.343	101	74499	19.550	ug/l	99
10) Methyl Iodide	2.471	142	82580	19.891	ug/l	99
11) Tert butyl alcohol	2.947	59	28802	97.794	ug/l	99
12) 1,1-Dichloroethene	2.337	96	70748	19.194	ug/l	99
13) Acrolein	2.246	56	31524	98.601	ug/l	97
14) Allyl chloride	2.678	41	127246	19.390	ug/l	99
15) Acrylonitrile	3.069	53	169062	99.285	ug/l	99
16) Acetone	2.386	43	126884	90.964	ug/l	100
17) Carbon Disulfide	2.526	76	178758	18.493	ug/l	100
18) Methyl Acetate	2.715	43	75310	20.484	ug/l	98
19) Methyl tert-butyl Ether	3.123	73	213289	20.491	ug/l	99
20) Methylene Chloride	2.800	84	81945	19.867	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	75072	19.904	ug/l	99
22) Diisopropyl ether	3.764	45	265963	20.978	ug/l #	83
23) Vinyl Acetate	3.727	43	972517	102.390	ug/l	99
24) 1,1-Dichloroethane	3.623	63	142037	19.644	ug/l	99
25) 2-Butanone	4.556	43	183656	98.685	ug/l	99
26) 2,2-Dichloropropane	4.483	77	100620	18.699	ug/l	98
27) cis-1,2-Dichloroethene	4.495	96	91771	19.929	ug/l	100
28) Bromochloromethane	4.904	49	62290	17.456	ug/l	97
29) Tetrahydrofuran	5.007	42	121593	102.495	ug/l	99
30) Chloroform	5.105	83	148570	20.113	ug/l	94
31) Cyclohexane	5.483	56	128775	20.062	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	120018	19.447	ug/l	97
36) 1,1-Dichloropropene	5.702	75	100414	19.300	ug/l	99
37) Ethyl Acetate	4.721	43	80747	18.222	ug/l	99
38) Carbon Tetrachloride	5.684	117	107033	19.458	ug/l	99
39) Methylcyclohexane	7.385	83	125862	19.339	ug/l	98
40) Benzene	6.044	78	311436	19.790	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
 Data File : VX046874.D
 Acq On : 03 Jul 2025 10:23
 Operator : JC/MD
 Sample : VX0703WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0703WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/07/2025
 Supervised By : Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:27:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	46583	19.706	ug/l	97
42) 1,2-Dichloroethane	6.092	62	108647	20.332	ug/l	99
43) Isopropyl Acetate	6.342	43	135993	20.036	ug/l	99
44) Trichloroethene	7.129	130	77478	18.913	ug/l	85
45) 1,2-Dichloropropane	7.434	63	79235	19.929	ug/l	95
46) Dibromomethane	7.586	93	54568	19.808	ug/l	99
47) Bromodichloromethane	7.824	83	117624	19.997	ug/l	98
48) Methyl methacrylate	7.696	41	70912	20.233	ug/l	97
49) 1,4-Dioxane	7.659	88	16565	407.913	ug/l	99
51) 4-Methyl-2-Pentanone	8.568	43	407426	101.708	ug/l	100
52) Toluene	8.714	92	195560	20.054	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	103725	19.759	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	121606	20.295	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	75284	20.726	ug/l	98
56) Ethyl methacrylate	9.116	69	102805	20.449	ug/l	100
57) 1,3-Dichloropropane	9.305	76	127139	20.328	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	267457	94.419	ug/l	100
59) 2-Hexanone	9.427	43	273252	102.840	ug/l	99
60) Dibromochloromethane	9.519	129	87002	20.015	ug/l	100
61) 1,2-Dibromoethane	9.610	107	73148	20.052	ug/l	99
64) Tetrachloroethene	9.269	164	66459	19.283	ug/l	95
65) Chlorobenzene	10.080	112	216580	19.352	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	73712	19.593	ug/l	99
67) Ethyl Benzene	10.189	91	377341	19.688	ug/l	100
68) m/p-Xylenes	10.299	106	287999	39.877	ug/l	99
69) o-Xylene	10.640	106	137563	19.719	ug/l	99
70) Styrene	10.653	104	240484	20.148	ug/l	99
71) Bromoform	10.799	173	54017	19.310	ug/l #	98
73) Isopropylbenzene	10.957	105	363745	19.173	ug/l	99
74) N-amyl acetate	10.842	43	120882	18.751	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	101199	19.399	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	81097m	19.448	ug/l	
77) Bromobenzene	11.195	156	90550	19.162	ug/l	99
78) n-propylbenzene	11.299	91	434180	18.980	ug/l	100
79) 2-Chlorotoluene	11.360	91	259147	19.186	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	300217	19.476	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	27189	17.497	ug/l	96
82) 4-Chlorotoluene	11.451	91	300371	19.270	ug/l	99
83) tert-Butylbenzene	11.713	119	310012	19.472	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	303925	19.506	ug/l	99
85) sec-Butylbenzene	11.884	105	388639	19.361	ug/l	100
86) p-Isopropyltoluene	12.006	119	325932	19.389	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	171703	19.428	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	173114	18.821	ug/l	99
89) n-Butylbenzene	12.329	91	300821	19.045	ug/l	100
90) Hexachloroethane	12.536	117	55235	18.535	ug/l	97
91) 1,2-Dichlorobenzene	12.329	146	167127	19.514	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	17286	18.945	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	106589	18.320	ug/l	98
94) Hexachlorobutadiene	13.719	225	41848	19.072	ug/l	99
95) Naphthalene	13.774	128	298705	19.483	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	106976	19.459	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046874.D
Acq On : 03 Jul 2025 10:23
Operator : JC/MD
Sample : VX0703WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0703WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:27:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

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

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

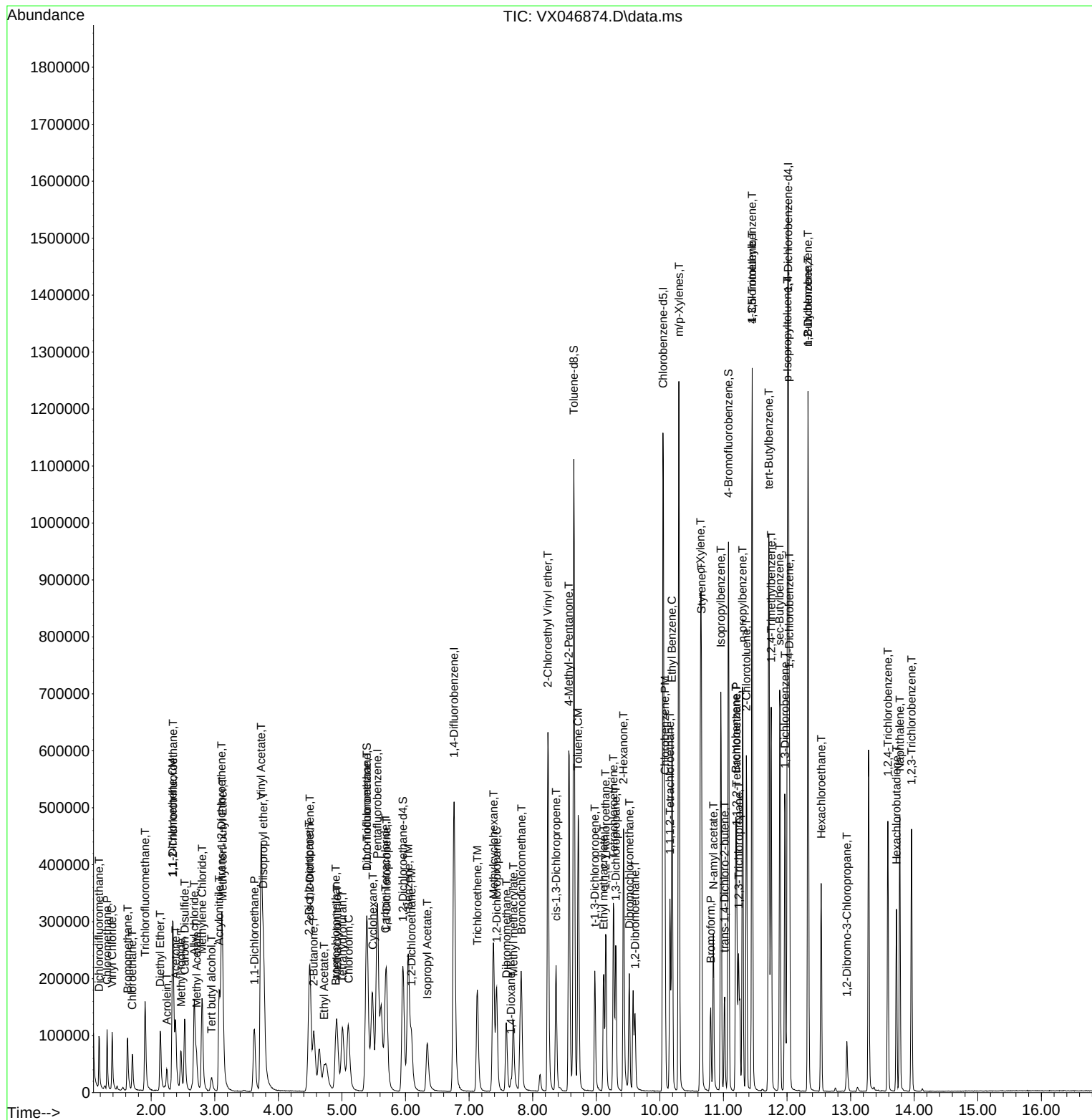
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070325\
Data File : VX046874.D
Acq On    : 03 Jul 2025  10:23
Operator  : JC/MD
Sample    : VX0703WBSD01
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 7   Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VX0703WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/07/2025
Supervised By :Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 01:27:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBSD01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
	ID :	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022875.D	1	06/30/25 12:32	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.1		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.5		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.2		0.79	5.00	ug/Kg
74-83-9	Bromomethane	19.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.5		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.7		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.1		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.0		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.2		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.4		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	22.9		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.0		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.5		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.4		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.4		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.8		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	21.3		0.91	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.6		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	98.1		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBSD01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022875.D	1	06/30/25 12:32	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.4		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.4		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.1		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.5		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.6		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.9		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.3		0.82	5.00	ug/Kg
100-42-5	Styrene	19.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.4		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.9		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.6		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.3		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		17 - 146	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	458000	7.707			
540-36-3	1,4-Difluorobenzene	770000	8.616			
3114-55-4	Chlorobenzene-d5	654000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	309000	13.34			



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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBSD01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022875.D	1	06/30/25 12:32	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022875.D
 Acq On : 30 Jun 2025 12:32
 Operator : SY/MD
 Sample : VY0630SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0630SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
 Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:36:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	457956	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	769619	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	654092	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	308766	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	249144	48.744	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.480%
35) Dibromofluoromethane	7.634	113	233496	49.887	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.780%
50) Toluene-d8	10.103	98	926701	49.896	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.800%
62) 4-Bromofluorobenzene	12.401	95	286131	47.924	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	95.840%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	82732	21.127	ug/l	96
3) Chloromethane	2.068	50	145460	19.452	ug/l	99
4) Vinyl Chloride	2.202	62	179176	19.179	ug/l	99
5) Bromomethane	2.592	94	143449	19.532	ug/l	99
6) Chloroethane	2.732	64	122747	19.547	ug/l	96
7) Trichlorofluoromethane	3.049	101	203795	19.701	ug/l	99
8) Diethyl Ether	3.452	74	57899	22.662	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.805	101	99935	21.140	ug/l	97
10) Methyl Iodide	4.000	142	100506	19.527	ug/l	99
11) Tert butyl alcohol	4.866	59	31791	93.541	ug/l	98
12) 1,1-Dichloroethene	3.787	96	97472	21.028	ug/l	99
13) Acrolein	3.653	56	39361	85.409	ug/l	99
14) Allyl chloride	4.378	41	154821	21.715	ug/l	92
15) Acrylonitrile	5.055	53	105124	98.617	ug/l	99
16) Acetone	3.872	43	128123	132.623	ug/l	99
17) Carbon Disulfide	4.104	76	310886	20.761	ug/l	98
18) Methyl Acetate	4.391	43	55576	17.371	ug/l	97
19) Methyl tert-butyl Ether	5.110	73	254937	20.198	ug/l	97
20) Methylene Chloride	4.610	84	139627	22.886	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	108246	20.432	ug/l	95
22) Diisopropyl ether	6.018	45	339046	21.413	ug/l	98
23) Vinyl Acetate	5.957	43	934821	106.900	ug/l	100
24) 1,1-Dichloroethane	5.909	63	200807	20.996	ug/l	98
25) 2-Butanone	6.890	43	160198	113.936	ug/l	99
26) 2,2-Dichloropropane	6.884	77	175690	21.914	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	125355	20.363	ug/l	97
28) Bromochloromethane	7.244	49	81987	20.390	ug/l	96
29) Tetrahydrofuran	7.262	42	87132	98.140	ug/l	99
30) Chloroform	7.421	83	204540	20.764	ug/l	92
31) Cyclohexane	7.701	56	188997	21.528	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	180433	21.196	ug/l	99
36) 1,1-Dichloropropene	7.835	75	148415	20.920	ug/l	99
37) Ethyl Acetate	6.982	43	63884	20.868	ug/l	98
38) Carbon Tetrachloride	7.817	117	155932	20.831	ug/l	97
39) Methylcyclohexane	9.109	83	195510	21.295	ug/l	98
40) Benzene	8.079	78	454672	20.845	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022875.D
 Acq On : 30 Jun 2025 12:32
 Operator : SY/MD
 Sample : VY0630SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0630SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
 Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:36:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	37259m	19.770	ug/l	
42) 1,2-Dichloroethane	8.158	62	123220	20.615	ug/l	98
43) Isopropyl Acetate	8.195	43	127199	19.991	ug/l	99
44) Trichloroethene	8.859	130	111927	20.438	ug/l	98
45) 1,2-Dichloropropane	9.140	63	105621	20.690	ug/l	97
46) Dibromomethane	9.231	93	57674	19.902	ug/l	98
47) Bromodichloromethane	9.420	83	153733	20.572	ug/l	95
48) Methyl methacrylate	9.219	41	59699	19.517	ug/l	94
49) 1,4-Dioxane	9.225	88	12270	358.371	ug/l	95
51) 4-Methyl-2-Pentanone	9.993	43	317300	98.134	ug/l	96
52) Toluene	10.170	92	282203	20.508	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	136528	20.306	ug/l	96
54) cis-1,3-Dichloropropene	9.853	75	159892	20.510	ug/l	97
55) 1,1,2-Trichloroethane	10.572	97	76514	20.390	ug/l	96
56) Ethyl methacrylate	10.438	69	97705	19.353	ug/l	95
57) 1,3-Dichloropropane	10.713	76	132001	20.162	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.707	63	233088	97.996	ug/l	100
59) 2-Hexanone	10.761	43	229283	104.301	ug/l	98
60) Dibromochloromethane	10.908	129	95842	19.773	ug/l	98
61) 1,2-Dibromoethane	11.011	107	68173	19.414	ug/l	98
64) Tetrachloroethene	10.646	164	118197	19.128	ug/l	97
65) Chlorobenzene	11.438	112	293918	20.450	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	98077	20.147	ug/l	99
67) Ethyl Benzene	11.517	91	520993	20.631	ug/l	99
68) m/p-Xylenes	11.627	106	399051	40.880	ug/l	100
69) o-Xylene	11.950	106	186280	20.252	ug/l	99
70) Styrene	11.969	104	306192	19.874	ug/l	100
71) Bromoform	12.127	173	52108	19.224	ug/l #	99
73) Isopropylbenzene	12.249	105	488287	21.383	ug/l	100
74) N-amyl acetate	12.066	43	105321	20.548	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.499	83	80576	21.894	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	55086m	17.475	ug/l	
77) Bromobenzene	12.529	156	106962	20.665	ug/l	99
78) n-propylbenzene	12.590	91	593497	21.527	ug/l	99
79) 2-Chlorotoluene	12.676	91	332637	21.355	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	390931	21.207	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.298	75	25803	20.680	ug/l	97
82) 4-Chlorotoluene	12.773	91	337202	20.609	ug/l	100
83) tert-Butylbenzene	12.993	119	344699	21.203	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	392336	21.258	ug/l	99
85) sec-Butylbenzene	13.170	105	528051	21.588	ug/l	99
86) p-Isopropyltoluene	13.285	119	433785	21.310	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	214505	20.635	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	212059	20.536	ug/l	98
89) n-Butylbenzene	13.615	91	415050	21.677	ug/l	99
90) Hexachloroethane	13.877	117	85333	21.048	ug/l	96
91) 1,2-Dichlorobenzene	13.657	146	188591	20.587	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	12577	20.152	ug/l	96
93) 1,2,4-Trichlorobenzene	14.913	180	106828	20.654	ug/l	99
94) Hexachlorobutadiene	15.017	225	63162	21.595	ug/l	98
95) Naphthalene	15.139	128	181037	19.355	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	90763	20.307	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022875.D
Acq On : 30 Jun 2025 12:32
Operator : SY/MD
Sample : VY0630SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:36:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

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

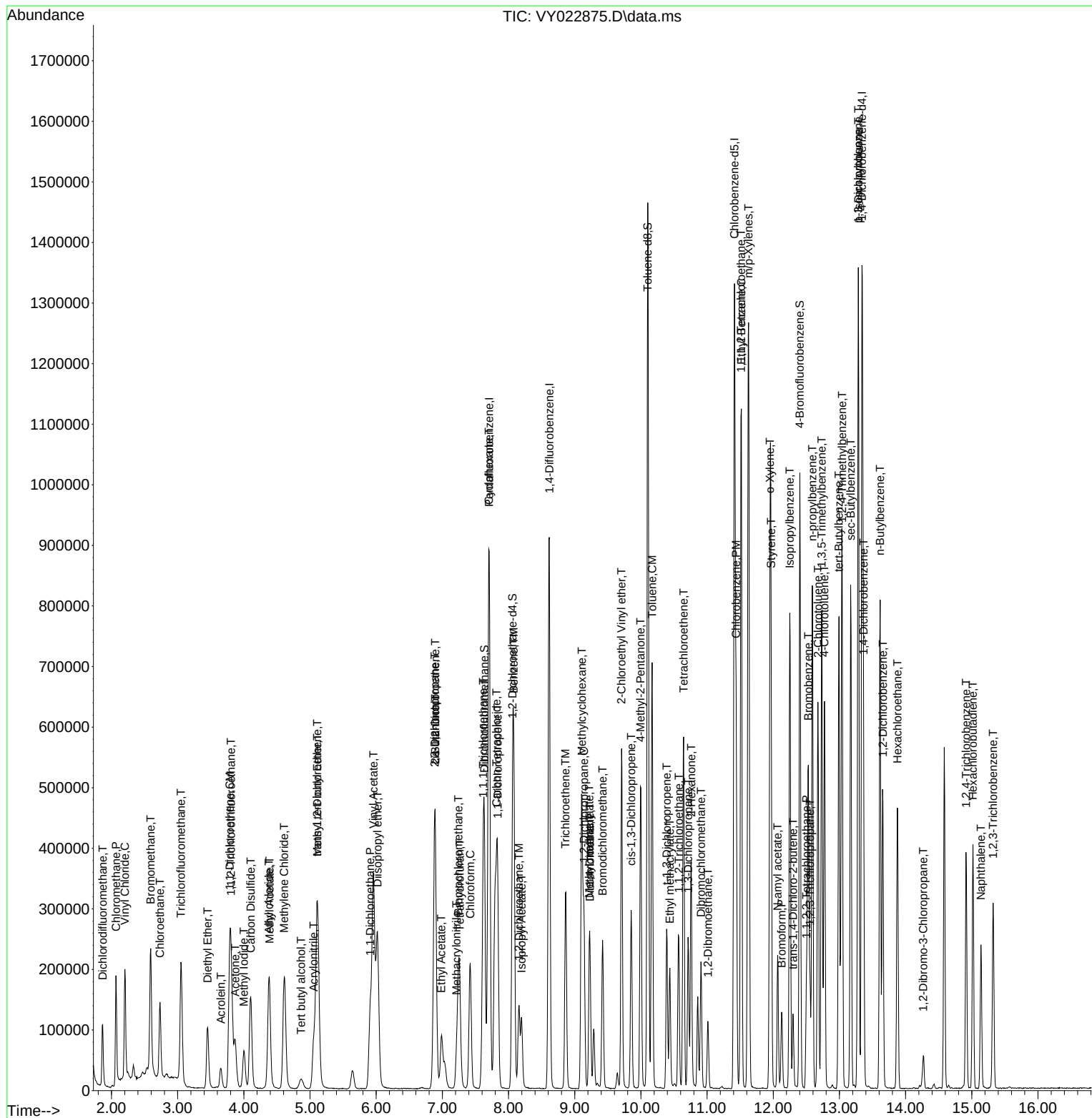
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022875.D
Acq On : 30 Jun 2025 12:32
Operator : SY/MD
Sample : VY0630SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/soil
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:36:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VX070225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX046860.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDICC001	VX046860.D	1,4-Dichlorobenzene	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDICC001	VX046860.D	1,4-Dioxane	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDICC001	VX046860.D	2-Butanone	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDICC001	VX046860.D	Acrylonitrile	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDICC001	VX046860.D	Carbon Tetrachloride	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDICC001	VX046860.D	Ethyl Acetate	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDICC001	VX046860.D	Methacrylonitrile	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDICC005	VX046861.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:43:57 AM	MMDadoda	7/3/2025 3:09:44 PM	Peak Integrated by Software
VSTDICC020	VX046862.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:44:01 AM	MMDadoda	7/3/2025 3:09:46 PM	Peak Integrated by Software
VSTDICCC050	VX046863.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:44:05 AM	MMDadoda	7/3/2025 3:09:47 PM	Peak Integrated by Software
VSTDICC100	VX046864.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:44:09 AM	MMDadoda	7/3/2025 3:09:49 PM	Peak Integrated by Software
VSTDICC150	VX046865.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:44:13 AM	MMDadoda	7/3/2025 3:09:51 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VX070225

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX046867.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:44:17 AM	MMDadoda	7/3/2025 3:09:53 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX070325

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX046869.D	1,2,3-Trichloropropane	JOHN	7/7/2025 9:13:58 AM	MMDadoda	7/7/2025 2:13:37 PM	Peak Integrated by Software
VX0703WBS01	VX046873.D	1,2,3-Trichloropropane	JOHN	7/7/2025 9:14:03 AM	MMDadoda	7/7/2025 2:13:38 PM	Peak Integrated by Software
VX0703WBSD0 1	VX046874.D	1,2,3-Trichloropropane	JOHN	7/7/2025 9:14:10 AM	MMDadoda	7/7/2025 2:13:40 PM	Peak Integrated by Software
VSTDCCC050	VX046890.D	1,2,3-Trichloropropane	JOHN	7/7/2025 9:17:02 AM	MMDadoda	7/7/2025 2:13:47 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY062325	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022776.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:24:02 AM	Sam	6/24/2025 8:27:42 AM	Peak Integrated by Software
VSTDICC005	VY022776.D	Methacrylonitrile	MMDadod a	6/24/2025 8:24:02 AM	Sam	6/24/2025 8:27:42 AM	Peak Integrated by Software
VSTDICC010	VY022777.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:23:58 AM	Sam	6/24/2025 8:27:46 AM	Peak Integrated by Software
VSTDICC010	VY022777.D	Methacrylonitrile	MMDadod a	6/24/2025 8:23:58 AM	Sam	6/24/2025 8:27:46 AM	Peak Integrated by Software
VSTDICC020	VY022778.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:24:01 AM	Sam	6/24/2025 8:27:48 AM	Peak Integrated by Software
VSTDICC020	VY022778.D	Methacrylonitrile	MMDadod a	6/24/2025 8:24:01 AM	Sam	6/24/2025 8:27:48 AM	Peak Integrated by Software
VSTDICCC050	VY022779.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:24:00 AM	Sam	6/24/2025 8:27:51 AM	Peak Integrated by Software
VSTDICC100	VY022780.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:23:59 AM	Sam	6/24/2025 8:27:52 AM	Peak Integrated by Software
VSTDICC150	VY022781.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:24:03 AM	Sam	6/24/2025 8:27:53 AM	Peak Integrated by Software
VSTDICV050	VY022783.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:24:03 AM	Sam	6/24/2025 8:27:54 AM	Peak Integrated by Software
VSTDICV050	VY022783.D	Methacrylonitrile	MMDadod a	6/24/2025 8:24:03 AM	Sam	6/24/2025 8:27:54 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY063025	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022872.D	1,2,3-Trichloropropane	MMDadoda	7/1/2025 12:22:38 PM	SAM	7/1/2025 12:24:46 PM	Peak Integrated by Software
VY0630SBS01	VY022874.D	1,2,3-Trichloropropane	MMDadoda	7/1/2025 12:22:39 PM	SAM	7/1/2025 12:24:46 PM	Peak Integrated by Software
VY0630SBS01	VY022874.D	Methacrylonitrile	MMDadoda	7/1/2025 12:22:39 PM	SAM	7/1/2025 12:24:46 PM	Peak Integrated by Software
VY0630SBSD01	VY022875.D	1,2,3-Trichloropropane	MMDadoda	7/1/2025 12:22:41 PM	SAM	7/1/2025 12:24:47 PM	Peak Integrated by Software
VY0630SBSD01	VY022875.D	Methacrylonitrile	MMDadoda	7/1/2025 12:22:41 PM	SAM	7/1/2025 12:24:47 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY070125

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022891.D	1,2,3-Trichloropropane	MMDadod a	7/2/2025 12:29:50 PM	SAM	7/2/2025 12:30:32 PM	Peak Integrated by Software
VSTDCCC050	VY022891.D	Methacrylonitrile	MMDadod a	7/2/2025 12:29:50 PM	SAM	7/2/2025 12:30:32 PM	Peak Integrated by Software
VY0701SBS01	VY022893.D	1,2,3-Trichloropropane	MMDadod a	7/2/2025 12:29:49 PM	SAM	7/2/2025 12:30:36 PM	Peak Integrated by Software
VY0701SBS01	VY022893.D	Methacrylonitrile	MMDadod a	7/2/2025 12:29:49 PM	SAM	7/2/2025 12:30:36 PM	Peak Integrated by Software
VSTDCCC050	VY022901.D	1,2,3-Trichloropropane	MMDadod a	7/2/2025 12:29:51 PM	SAM	7/2/2025 12:30:35 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY070225

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022903.D	1,2,3-Trichloropropane	MMDadoda	7/3/2025 3:08:15 PM	SAM	7/3/2025 3:13:08 PM	Peak Integrated by Software
VY0702SBS01	VY022905.D	1,2,3-Trichloropropane	MMDadoda	7/3/2025 3:08:17 PM	SAM	7/3/2025 3:13:10 PM	Peak Integrated by Software
VSTDCCC050	VY022927.D	1,2,3-Trichloropropane	MMDadoda	7/3/2025 3:08:21 PM	SAM	7/3/2025 3:13:13 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VY070325

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022929.D	1,2,3-Trichloropropane	MMDadoda	7/7/2025 2:11:50 PM	SAM	7/7/2025 2:15:28 PM	Peak Integrated by Software
VY0703SBS01	VY022931.D	1,2,3-Trichloropropane	MMDadoda	7/7/2025 2:11:52 PM	SAM	7/7/2025 2:15:28 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX070225

Review By	John Carlone	Review On	7/3/2025 8:44:30 AM
Supervise By	Maresh Dadoda	Supervise On	7/3/2025 3:09:59 PM
SubDirectory	VX070225	HP Acquire Method	HP Processing Method 82X070225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134642		
Initial Calibration Stds	VP134633,VP134634,VP134635,VP134638,VP134639,VP134640		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP134641		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046859.D	02 Jul 2025 11:12	JC/MD	Ok
2	VSTDIC001	VX046860.D	02 Jul 2025 12:11	JC/MD	Ok,M
3	VSTDIC005	VX046861.D	02 Jul 2025 12:37	JC/MD	Ok,M
4	VSTDIC020	VX046862.D	02 Jul 2025 13:18	JC/MD	Ok,M
5	VSTDIC050	VX046863.D	02 Jul 2025 13:39	JC/MD	Ok,M
6	VSTDIC100	VX046864.D	02 Jul 2025 14:10	JC/MD	Ok,M
7	VSTDIC150	VX046865.D	02 Jul 2025 14:31	JC/MD	Ok,M
8	VIBLK	VX046866.D	02 Jul 2025 14:53	JC/MD	Ok
9	VSTDICV050	VX046867.D	02 Jul 2025 15:14	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX070325

Review By	John Carlone	Review On	7/7/2025 9:19:20 AM
Supervise By	Maresh Dadoda	Supervise On	7/7/2025 2:14:03 PM
SubDirectory	VX070325	HP Acquire Method	HP Processing Method 82X070225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134621		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134622,VP134623		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046868.D	03 Jul 2025 07:52	JC/MD	Ok
2	VSTDCCC050	VX046869.D	03 Jul 2025 08:19	JC/MD	Ok,M
3	VX0703MBL01	VX046870.D	03 Jul 2025 08:42	JC/MD	Ok
4	VX0703WBL01	VX046871.D	03 Jul 2025 09:09	JC/MD	Ok
5	Q2458-10	VX046872.D	03 Jul 2025 09:35	JC/MD	Ok
6	VX0703WBS01	VX046873.D	03 Jul 2025 09:56	JC/MD	Ok,M
7	VX0703WBSD01	VX046874.D	03 Jul 2025 10:23	JC/MD	Ok,M
8	Q2455-01	VX046875.D	03 Jul 2025 10:44	JC/MD	Ok,M
9	Q2455-03	VX046876.D	03 Jul 2025 11:04	JC/MD	Ok,M
10	Q2455-02	VX046877.D	03 Jul 2025 11:25	JC/MD	Ok
11	Q2455-04	VX046878.D	03 Jul 2025 11:46	JC/MD	Ok
12	Q2447-07ME	VX046879.D	03 Jul 2025 12:07	JC/MD	Ok
13	VX0703MBS01	VX046880.D	03 Jul 2025 12:27	JC/MD	Ok,M
14	IBLK	VX046881.D	03 Jul 2025 12:53	JC/MD	Ok
15	Q2501-01	VX046882.D	03 Jul 2025 13:13	JC/MD	Ok
16	Q2501-02	VX046883.D	03 Jul 2025 13:34	JC/MD	Ok
17	Q2501-03	VX046884.D	03 Jul 2025 13:55	JC/MD	Ok
18	Q2501-04	VX046885.D	03 Jul 2025 14:16	JC/MD	Ok
19	Q2503-01	VX046886.D	03 Jul 2025 14:37	JC/MD	Ok
20	Q2503-02	VX046887.D	03 Jul 2025 14:58	JC/MD	Ok
21	Q2465-02	VX046888.D	03 Jul 2025 15:19	JC/MD	Ok,M

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX070325

Review By	John Carlone	Review On	7/7/2025 9:19:20 AM
Supervise By	Maresh Dadoda	Supervise On	7/7/2025 2:14:03 PM
SubDirectory	VX070325	HP Acquire Method	HP Processing Method 82X070225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134621		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134622,VP134623		

22	Q2509-01	VX046889.D	03 Jul 2025 15:40	JC/MD	Ok
23	VSTDCCC050	VX046890.D	03 Jul 2025 16:03	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY062325

Review By	Mahesh Dadoda	Review On	6/24/2025 8:24:26 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/24/2025 8:29:32 AM		
SubDirectory	VY062325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP134461			
Initial Calibration Stds		VP134462,VP134463,VP134464,VP134465,VP134466,VP134467			
CCC					
Internal Standard/PEM		VP133934			
ICV/I.BLK		VP134468			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022775.D	23 Jun 2025 10:17	SY/MD	Ok
2	VSTDIC005	VY022776.D	23 Jun 2025 13:38	SY/MD	Ok,M
3	VSTDIC010	VY022777.D	23 Jun 2025 14:00	SY/MD	Ok,M
4	VSTDIC020	VY022778.D	23 Jun 2025 14:23	SY/MD	Ok,M
5	VSTDIC050	VY022779.D	23 Jun 2025 14:46	SY/MD	Ok,M
6	VSTDIC100	VY022780.D	23 Jun 2025 15:08	SY/MD	Ok,M
7	VSTDIC150	VY022781.D	23 Jun 2025 15:31	SY/MD	Ok,M
8	VIBLK	VY022782.D	23 Jun 2025 15:54	SY/MD	Ok
9	VSTDICV050	VY022783.D	23 Jun 2025 16:17	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY063025

Review By	Mahesh Dadoda	Review On	7/1/2025 12:22:53 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/1/2025 12:24:58 PM		
SubDirectory	VY063025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134579			
CCC		VP134588,VP134589			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022871.D	30 Jun 2025 08:42	SY/MD	Ok
2	VSTDCCC050	VY022872.D	30 Jun 2025 11:03	SY/MD	Ok,M
3	VY0630SBL01	VY022873.D	30 Jun 2025 11:39	SY/MD	Ok
4	VY0630SBS01	VY022874.D	30 Jun 2025 12:09	SY/MD	Ok,M
5	VY0630SBSD01	VY022875.D	30 Jun 2025 12:32	SY/MD	Ok,M
6	Q2452-07	VY022876.D	30 Jun 2025 13:08	SY/MD	Ok,M
7	Q2436-03	VY022877.D	30 Jun 2025 13:32	SY/MD	Ok
8	Q2436-04	VY022878.D	30 Jun 2025 14:28	SY/MD	Ok
9	Q2436-05	VY022879.D	30 Jun 2025 14:52	SY/MD	Ok
10	Q2457-01	VY022880.D	30 Jun 2025 15:15	SY/MD	ReRun
11	Q2450-01	VY022881.D	30 Jun 2025 15:38	SY/MD	Ok
12	Q2449-01	VY022882.D	30 Jun 2025 16:02	SY/MD	Ok
13	Q2447-02	VY022883.D	30 Jun 2025 16:25	SY/MD	Ok
14	Q2447-05	VY022884.D	30 Jun 2025 16:49	SY/MD	Not Ok
15	Q2447-07	VY022885.D	30 Jun 2025 17:12	SY/MD	Dilution
16	Q2459-03	VY022886.D	30 Jun 2025 17:35	SY/MD	Ok
17	Q2458-01	VY022887.D	30 Jun 2025 17:59	SY/MD	Ok
18	Q2458-02	VY022888.D	30 Jun 2025 18:22	SY/MD	Ok
19	Q2458-03	VY022889.D	30 Jun 2025 18:46	SY/MD	ReRun

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY070125

Review By	Mahesh Dadoda	Review On	7/2/2025 12:29:56 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/2/2025 12:30:51 PM		
SubDirectory	VY070125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134591			
CCC		VP134592,VP134593			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022890.D	01 Jul 2025 08:47	SY/MD	Ok
2	VSTDCCC050	VY022891.D	01 Jul 2025 10:32	SY/MD	Ok,M
3	VY0701SBL01	VY022892.D	01 Jul 2025 11:05	SY/MD	Ok
4	VY0701SBS01	VY022893.D	01 Jul 2025 11:34	SY/MD	Ok,M
5	VY0701SBSD01	VY022894.D	01 Jul 2025 11:56	SY/MD	Ok,M
6	Q2457-01RE	VY022895.D	01 Jul 2025 12:34	SY/MD	Confirms
7	Q2447-05	VY022896.D	01 Jul 2025 12:57	SY/MD	Ok
8	Q2458-03	VY022897.D	01 Jul 2025 13:20	SY/MD	Ok
9	Q2458-04	VY022898.D	01 Jul 2025 14:23	SY/MD	ReRun
10	Q2458-05	VY022899.D	01 Jul 2025 15:06	SY/MD	Ok
11	VIBLK	VY022900.D	01 Jul 2025 15:41	SY/MD	Ok
12	VSTDCCC050	VY022901.D	01 Jul 2025 16:27	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY070225

Review By	Mahesh Dadoda	Review On	7/3/2025 3:08:26 PM
Supervise By	Semsettin Yesilyurt	Supervise On	7/3/2025 3:13:05 PM
SubDirectory	VY070225	HP Acquire Method	MSVOA_Y
		HP Processing Method	82y062325s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134605		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134608,VP134609 VP133934		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022902.D	02 Jul 2025 08:51	SY/MD	Ok
2	VSTDCCC050	VY022903.D	02 Jul 2025 10:37	SY/MD	Ok,M
3	VY0702SBL01	VY022904.D	02 Jul 2025 11:42	SY/MD	Ok
4	VY0702SBS01	VY022905.D	02 Jul 2025 12:12	SY/MD	Ok,M
5	VY0702SBSD01	VY022906.D	02 Jul 2025 12:35	SY/MD	Ok,M
6	Q2469-03	VY022907.D	02 Jul 2025 13:12	SY/MD	Ok
7	Q2464-01	VY022908.D	02 Jul 2025 13:36	SY/MD	Ok
8	Q2478-03	VY022909.D	02 Jul 2025 13:59	SY/MD	Ok
9	Q2475-01	VY022910.D	02 Jul 2025 14:23	SY/MD	Ok
10	Q2486-02	VY022911.D	02 Jul 2025 14:46	SY/MD	ReRun
11	Q2458-04	VY022912.D	02 Jul 2025 15:09	SY/MD	Ok
12	Q2458-06	VY022913.D	02 Jul 2025 15:33	SY/MD	Ok
13	Q2458-07	VY022914.D	02 Jul 2025 15:56	SY/MD	Ok
14	Q2458-08	VY022915.D	02 Jul 2025 16:20	SY/MD	Ok
15	Q2458-09	VY022916.D	02 Jul 2025 16:43	SY/MD	ReRun
16	Q2473-01	VY022917.D	02 Jul 2025 17:07	SY/MD	Ok
17	Q2473-02	VY022918.D	02 Jul 2025 17:30	SY/MD	Ok
18	Q2473-03	VY022919.D	02 Jul 2025 17:53	SY/MD	Ok
19	Q2473-04	VY022920.D	02 Jul 2025 18:17	SY/MD	ReRun
20	Q2487-01	VY022921.D	02 Jul 2025 18:40	SY/MD	ReRun
21	Q2487-02	VY022922.D	02 Jul 2025 19:04	SY/MD	ReRun

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY070225

Review By	Mahesh Dadoda	Review On	7/3/2025 3:08:26 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/3/2025 3:13:05 PM		
SubDirectory	VY070225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134605			
CCC		VP134608,VP134609			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2487-03	VY022923.D	02 Jul 2025 19:27	SY/MD	ReRun
23	Q2487-04	VY022924.D	02 Jul 2025 19:50	SY/MD	ReRun
24	Q2487-05	VY022925.D	02 Jul 2025 20:14	SY/MD	ReRun
25	VIBLK	VY022926.D	02 Jul 2025 20:37	SY/MD	Ok
26	VSTDCCC050	VY022927.D	02 Jul 2025 21:23	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY070325

Review By	Mahesh Dadoda	Review On	7/7/2025 2:11:58 PM
Supervise By	Semsettin Yesilyurt	Supervise On	7/7/2025 2:15:30 PM
SubDirectory	VY070325	HP Acquire Method	MSVOA_Y
		HP Processing Method	82y062325s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134628		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134631,VP134632 VP133934		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022928.D	03 Jul 2025 08:03	SY/MD	Ok
2	VSTDCCC050	VY022929.D	03 Jul 2025 09:26	SY/MD	Ok,M
3	VY0703SBL01	VY022930.D	03 Jul 2025 09:57	SY/MD	Ok
4	VY0703SBS01	VY022931.D	03 Jul 2025 10:29	SY/MD	Ok,M
5	VY0703SBSD01	VY022932.D	03 Jul 2025 10:52	SY/MD	Ok,M
6	Q2493-03	VY022933.D	03 Jul 2025 11:29	SY/MD	Ok
7	Q2491-01	VY022934.D	03 Jul 2025 11:53	SY/MD	Ok
8	Q2486-02	VY022935.D	03 Jul 2025 12:16	SY/MD	Ok
9	Q2473-04RE	VY022936.D	03 Jul 2025 12:39	SY/MD	Confirms
10	Q2458-09	VY022937.D	03 Jul 2025 13:03	SY/MD	Ok
11	Q2487-01	VY022938.D	03 Jul 2025 13:26	SY/MD	Ok
12	Q2487-02	VY022939.D	03 Jul 2025 13:50	SY/MD	Ok
13	Q2487-03	VY022940.D	03 Jul 2025 14:13	SY/MD	Ok
14	Q2487-04	VY022941.D	03 Jul 2025 14:36	SY/MD	Ok
15	Q2487-05RE	VY022942.D	03 Jul 2025 15:00	SY/MD	Confirms
16	Q2487-06	VY022943.D	03 Jul 2025 15:23	SY/MD	Ok
17	Q2487-07	VY022944.D	03 Jul 2025 15:47	SY/MD	ReRun

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX070225

Review By	John Carlone	Review On	7/3/2025 8:44:30 AM
Supervise By	Maresh Dadoda	Supervise On	7/3/2025 3:09:59 PM
SubDirectory	VX070225	HP Acquire Method	HP Processing Method 82X070225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134642
Initial Calibration Stds	VP134633,VP134634,VP134635,VP134638,VP134639,VP134640
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP134641
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046859.D	02 Jul 2025 11:12		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX046860.D	02 Jul 2025 12:11		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX046861.D	02 Jul 2025 12:37	%D Failed for com.#13 in 5 ppb	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX046862.D	02 Jul 2025 13:18		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX046863.D	02 Jul 2025 13:39	LR-13	JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX046864.D	02 Jul 2025 14:10		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX046865.D	02 Jul 2025 14:31		JC/MD	Ok,M
8	VIBLK	VIBLK	VX046866.D	02 Jul 2025 14:53		JC/MD	Ok
9	VSTDICV050	ICVVX070225	VX046867.D	02 Jul 2025 15:14		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX070325

Review By	John Carlone	Review On	7/7/2025 9:19:20 AM
Supervise By	Maresh Dadoda	Supervise On	7/7/2025 2:14:03 PM
SubDirectory	VX070325	HP Acquire Method	HP Processing Method 82X070225W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134621
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134622,VP134623

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046868.D	03 Jul 2025 07:52		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX046869.D	03 Jul 2025 08:19	pH#Lot#V12668	JC/MD	Ok,M
3	VX0703MBL01	VX0703MBL01	VX046870.D	03 Jul 2025 08:42		JC/MD	Ok
4	VX0703WBL01	VX0703WBL01	VX046871.D	03 Jul 2025 09:09		JC/MD	Ok
5	Q2458-10	FB-06272025	VX046872.D	03 Jul 2025 09:35	vial A pH<2 FB	JC/MD	Ok
6	VX0703WBS01	VX0703WBS01	VX046873.D	03 Jul 2025 09:56		JC/MD	Ok,M
7	VX0703WBSD01	VX0703WBSD01	VX046874.D	03 Jul 2025 10:23		JC/MD	Ok,M
8	Q2455-01	MW1	VX046875.D	03 Jul 2025 10:44	vial A pH<2	JC/MD	Ok,M
9	Q2455-03	MW10	VX046876.D	03 Jul 2025 11:04	vial A pH<2	JC/MD	Ok,M
10	Q2455-02	MW3	VX046877.D	03 Jul 2025 11:25	vial A pH<2	JC/MD	Ok
11	Q2455-04	FIELD-BLANK	VX046878.D	03 Jul 2025 11:46	vial A pH<2 FB	JC/MD	Ok
12	Q2447-07ME	LAW-25-0100ME	VX046879.D	03 Jul 2025 12:07		JC/MD	Ok
13	VX0703MBS01	VX0703MBS01	VX046880.D	03 Jul 2025 12:27		JC/MD	Ok,M
14	IBLK	IBLK	VX046881.D	03 Jul 2025 12:53		JC/MD	Ok
15	Q2501-01	STORAGE-BLANK-SO	VX046882.D	03 Jul 2025 13:13	vial A pH<2	JC/MD	Ok
16	Q2501-02	STORAGE-BLANK-WA	VX046883.D	03 Jul 2025 13:34	vial A pH<2	JC/MD	Ok
17	Q2501-03	STORAGE-BLANK-WA	VX046884.D	03 Jul 2025 13:55	vial A pH<2	JC/MD	Ok
18	Q2501-04	STORAGE-BLANK-SAI	VX046885.D	03 Jul 2025 14:16	vial A pH<2	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX070325

Review By	John Carlone	Review On	7/7/2025 9:19:20 AM
Supervise By	Maresh Dadoda	Supervise On	7/7/2025 2:14:03 PM
SubDirectory	VX070325	HP Acquire Method	HP Processing Method 82X070225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134621		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134622,VP134623		

19	Q2503-01	GCAP2W	VX046886.D	03 Jul 2025 14:37	vial A pH<2	JC/MD	Ok
20	Q2503-02	GCAP3W	VX046887.D	03 Jul 2025 14:58	vial A pH<2	JC/MD	Ok
21	Q2465-02	62025-B	VX046888.D	03 Jul 2025 15:19	vial A pH<2 oily dark sample	JC/MD	Ok,M
22	Q2509-01	AUD-25-0110-0111	VX046889.D	03 Jul 2025 15:40	vial A pH<2 turbid sample	JC/MD	Ok
23	VSTDCCC050	VSTDCCC050EC	VX046890.D	03 Jul 2025 16:03		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY062325

Review By	Maresh Dadoda	Review On	6/24/2025 8:24:26 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/24/2025 8:29:32 AM
SubDirectory	VY062325	HP Acquire Method	MSVOA_Y HP Processing Method 82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134461
Initial Calibration Stds	VP134462,VP134463,VP134464,VP134465,VP134466,VP134467
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134468
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022775.D	23 Jun 2025 10:17		SY/MD	Ok
2	VSTDIC005	VSTDIC005	VY022776.D	23 Jun 2025 13:38	LR- 58	SY/MD	Ok,M
3	VSTDIC010	VSTDIC010	VY022777.D	23 Jun 2025 14:00		SY/MD	Ok,M
4	VSTDIC020	VSTDIC020	VY022778.D	23 Jun 2025 14:23		SY/MD	Ok,M
5	VSTDIC050	VSTDIC050	VY022779.D	23 Jun 2025 14:46		SY/MD	Ok,M
6	VSTDIC100	VSTDIC100	VY022780.D	23 Jun 2025 15:08		SY/MD	Ok,M
7	VSTDIC150	VSTDIC150	VY022781.D	23 Jun 2025 15:31		SY/MD	Ok,M
8	VIBLK	VIBLK	VY022782.D	23 Jun 2025 15:54		SY/MD	Ok
9	VSTDICV050	ICVVY062325	VY022783.D	23 Jun 2025 16:17		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY063025

Review By	Maresh Dadoda	Review On	7/1/2025 12:22:53 PM
Supervise By	Semsettin Yesilyurt	Supervise On	7/1/2025 12:24:58 PM
SubDirectory	VY063025	HP Acquire Method	MSVOA_Y HP Processing Method 82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134579
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134588,VP134589 VP133934

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022871.D	30 Jun 2025 08:42		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022872.D	30 Jun 2025 11:03		SY/MD	Ok,M
3	VY0630SBL01	VY0630SBL01	VY022873.D	30 Jun 2025 11:39		SY/MD	Ok
4	VY0630SBS01	VY0630SBS01	VY022874.D	30 Jun 2025 12:09		SY/MD	Ok,M
5	VY0630SBSD01	VY0630SBSD01	VY022875.D	30 Jun 2025 12:32		SY/MD	Ok,M
6	Q2452-07	EP-2-VOC	VY022876.D	30 Jun 2025 13:08	vial-B	SY/MD	Ok,M
7	Q2436-03	TP-85	VY022877.D	30 Jun 2025 13:32	vial-B	SY/MD	Ok
8	Q2436-04	TP-86	VY022878.D	30 Jun 2025 14:28	vial-B	SY/MD	Ok
9	Q2436-05	TP-84	VY022879.D	30 Jun 2025 14:52	vial-B	SY/MD	Ok
10	Q2457-01	OK-2-062725	VY022880.D	30 Jun 2025 15:15	vial-A Internal Standard Fail	SY/MD	ReRun
11	Q2450-01	PL-2-062725	VY022881.D	30 Jun 2025 15:38	vial-A	SY/MD	Ok
12	Q2449-01	RBR200032	VY022882.D	30 Jun 2025 16:02	vial-A	SY/MD	Ok
13	Q2447-02	COMP-1	VY022883.D	30 Jun 2025 16:25	vial-A	SY/MD	Ok
14	Q2447-05	COMP-2	VY022884.D	30 Jun 2025 16:49	vial-A Not Purge	SY/MD	Not Ok
15	Q2447-07	LAW-25-0100	VY022885.D	30 Jun 2025 17:12	vial-A Internal standard fail;Need MeOH	SY/MD	Dilution
16	Q2459-03	TP-1-VOC	VY022886.D	30 Jun 2025 17:35	vial-A	SY/MD	Ok
17	Q2458-01	TP-76	VY022887.D	30 Jun 2025 17:59	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY063025

Review By	Mahesh Dadoda	Review On	7/1/2025 12:22:53 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/1/2025 12:24:58 PM		
SubDirectory	VY063025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134579
CCC	VP134588,VP134589
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2458-02	TP-55	VY022888.D	30 Jun 2025 18:22	vial-A	SY/MD	Ok
19	Q2458-03	TP-68	VY022889.D	30 Jun 2025 18:46	vial-A Internal Standard Fail	SY/MD	ReRun

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY070125

Review By	Mahesh Dadoda	Review On	7/2/2025 12:29:56 PM
Supervise By	Semsettin Yesilyurt	Supervise On	7/2/2025 12:30:51 PM
SubDirectory	VY070125	HP Acquire Method	MSVOA_Y
		HP Processing Method	82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134591
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134592,VP134593 VP133934

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022890.D	01 Jul 2025 08:47		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022891.D	01 Jul 2025 10:32		SY/MD	Ok,M
3	VY0701SBL01	VY0701SBL01	VY022892.D	01 Jul 2025 11:05		SY/MD	Ok
4	VY0701SBS01	VY0701SBS01	VY022893.D	01 Jul 2025 11:34		SY/MD	Ok,M
5	VY0701SBSD01	VY0701SBSD01	VY022894.D	01 Jul 2025 11:56		SY/MD	Ok,M
6	Q2457-01RE	OK-2-062725RE	VY022895.D	01 Jul 2025 12:34	vial-B Internal Standard Fail	SY/MD	Confirms
7	Q2447-05	COMP-2	VY022896.D	01 Jul 2025 12:57	vial-B Internal Standard Fail	SY/MD	Ok
8	Q2458-03	TP-68	VY022897.D	01 Jul 2025 13:20	vial-B	SY/MD	Ok
9	Q2458-04	TP-67	VY022898.D	01 Jul 2025 14:23	vial-A Internal Standard Fail	SY/MD	ReRun
10	Q2458-05	TP-66	VY022899.D	01 Jul 2025 15:06	vial-A	SY/MD	Ok
11	VIBLK	VIBLK	VY022900.D	01 Jul 2025 15:41		SY/MD	Ok
12	VSTDCCC050	VSTDCCC050EC	VY022901.D	01 Jul 2025 16:27		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY070225

Review By	Maresh Dadoda	Review On	7/3/2025 3:08:26 PM
Supervise By	Semsettin Yesilyurt	Supervise On	7/3/2025 3:13:05 PM
SubDirectory	VY070225	HP Acquire Method	MSVOA_Y HP Processing Method 82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134605
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134608, VP134609 VP133934

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022902.D	02 Jul 2025 08:51		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022903.D	02 Jul 2025 10:37	CCAL failed high for comp.#16	SY/MD	Ok,M
3	VY0702SBL01	VY0702SBL01	VY022904.D	02 Jul 2025 11:42		SY/MD	Ok
4	VY0702SBS01	VY0702SBS01	VY022905.D	02 Jul 2025 12:12		SY/MD	Ok,M
5	VY0702SBSD01	VY0702SBSD01	VY022906.D	02 Jul 2025 12:35		SY/MD	Ok,M
6	Q2469-03	WC-1-VOC	VY022907.D	02 Jul 2025 13:12	vial-A	SY/MD	Ok
7	Q2464-01	OR-3-063025	VY022908.D	02 Jul 2025 13:36	vial-A	SY/MD	Ok
8	Q2478-03	WC-1-VOC	VY022909.D	02 Jul 2025 13:59	vial-A	SY/MD	Ok
9	Q2475-01	SOIL-PILE	VY022910.D	02 Jul 2025 14:23	vial-A	SY/MD	Ok
10	Q2486-02	VOC	VY022911.D	02 Jul 2025 14:46	vial-A Internal Standard Fail	SY/MD	ReRun
11	Q2458-04	TP-67	VY022912.D	02 Jul 2025 15:09	vial-B	SY/MD	Ok
12	Q2458-06	TP-60	VY022913.D	02 Jul 2025 15:33	vial-A	SY/MD	Ok
13	Q2458-07	TP-62	VY022914.D	02 Jul 2025 15:56	vial-A	SY/MD	Ok
14	Q2458-08	TP-63	VY022915.D	02 Jul 2025 16:20	vial-A	SY/MD	Ok
15	Q2458-09	TP-59	VY022916.D	02 Jul 2025 16:43	vial-A CCC Failed High	SY/MD	ReRun
16	Q2473-01	PIT#1	VY022917.D	02 Jul 2025 17:07	vial-A	SY/MD	Ok
17	Q2473-02	PIT#2	VY022918.D	02 Jul 2025 17:30	vial-A	SY/MD	Ok
18	Q2473-03	PIT#3	VY022919.D	02 Jul 2025 17:53	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY070225

Review By	Mahesh Dadoda	Review On	7/3/2025 3:08:26 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/3/2025 3:13:05 PM		
SubDirectory	VY070225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134605			
CCC		VP134608,VP134609			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2473-04	PIT#4	VY022920.D	02 Jul 2025 18:17	vial-A Surrogate fail;CCC Failed High	SY/MD	ReRun
20	Q2487-01	G4(1.5)	VY022921.D	02 Jul 2025 18:40	vial-A CCC failed high	SY/MD	ReRun
21	Q2487-02	G4(10)	VY022922.D	02 Jul 2025 19:04	vial-A CCC failed high	SY/MD	ReRun
22	Q2487-03	G3(9)	VY022923.D	02 Jul 2025 19:27	vial-A CCC failed high	SY/MD	ReRun
23	Q2487-04	G3(3)	VY022924.D	02 Jul 2025 19:50	vial-A Internal standard fail;Surrogate fail	SY/MD	ReRun
24	Q2487-05	G2(2.5)	VY022925.D	02 Jul 2025 20:14	vial-A Internal Standard Fail	SY/MD	ReRun
25	VIBLK	VIBLK	VY022926.D	02 Jul 2025 20:37		SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY022927.D	02 Jul 2025 21:23	Out of Tune	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY070325

Review By	Mahesh Dadoda	Review On	7/7/2025 2:11:58 PM
Supervise By	Semsettin Yesilyurt	Supervise On	7/7/2025 2:15:30 PM
SubDirectory	VY070325	HP Acquire Method	MSVOA_Y
		HP Processing Method	82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134628
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134631,VP134632 VP133934

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022928.D	03 Jul 2025 08:03		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022929.D	03 Jul 2025 09:26		SY/MD	Ok,M
3	VY0703SBL01	VY0703SBL01	VY022930.D	03 Jul 2025 09:57		SY/MD	Ok
4	VY0703SBS01	VY0703SBS01	VY022931.D	03 Jul 2025 10:29		SY/MD	Ok,M
5	VY0703SBSD01	VY0703SBSD01	VY022932.D	03 Jul 2025 10:52		SY/MD	Ok,M
6	Q2493-03	WC-11-VOC	VY022933.D	03 Jul 2025 11:29	vial-A	SY/MD	Ok
7	Q2491-01	EO-1-070225	VY022934.D	03 Jul 2025 11:53	vial-A	SY/MD	Ok
8	Q2486-02	VOC	VY022935.D	03 Jul 2025 12:16	vial-B	SY/MD	Ok
9	Q2473-04RE	PIT#4RE	VY022936.D	03 Jul 2025 12:39	vial-B Internal Standard Fail; Surrogate Fail	SY/MD	Confirms
10	Q2458-09	TP-59	VY022937.D	03 Jul 2025 13:03	vial-B	SY/MD	Ok
11	Q2487-01	G4(1.5)	VY022938.D	03 Jul 2025 13:26	vial-B	SY/MD	Ok
12	Q2487-02	G4(10)	VY022939.D	03 Jul 2025 13:50	vial-B	SY/MD	Ok
13	Q2487-03	G3(9)	VY022940.D	03 Jul 2025 14:13	vial-B	SY/MD	Ok
14	Q2487-04	G3(3)	VY022941.D	03 Jul 2025 14:36	vial-B	SY/MD	Ok
15	Q2487-05RE	G2(2.5)RE	VY022942.D	03 Jul 2025 15:00	vial-B Internal Standard Fail	SY/MD	Confirms
16	Q2487-06	G2(9)	VY022943.D	03 Jul 2025 15:23	vial-A	SY/MD	Ok
17	Q2487-07	G1(4.5)	VY022944.D	03 Jul 2025 15:47	vial-A Internal Standard Fail; Surrogate Fail	SY/MD	ReRun

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/1/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 06/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136327

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2451-01	Y2310-0409-1-1	1	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-02	Y2310-0409-1-2	2	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-03	Y2307-0279-1-1	3	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-04	Y2307-0279-1-2	4	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-05	KQA080Z-1-1	5	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-06	KQA080Z-1-2	6	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-07	HIA-925Q-1-1	7	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-08	HIA-925Q-1-2	8	1.00	1.00	2.00	2.00	100.0	PILC
Q2458-01	TP-76	9	1.15	10.84	11.99	10.97	90.6	
Q2458-02	TP-55	10	1.18	10.49	11.67	10.77	91.4	
Q2458-03	TP-68	11	1.18	10.68	11.86	11.04	92.3	
Q2458-04	TP-67	12	1.19	10.16	11.35	10.3	89.7	
Q2458-05	TP-66	13	1.19	10.18	11.37	10.18	88.3	
Q2458-06	TP-60	14	1.15	10.83	11.98	11.17	92.5	
Q2458-07	TP-62	15	1.15	10.84	11.99	11.02	91.1	
Q2458-08	TP-63	16	1.19	10.82	12.01	10.54	86.4	
Q2458-09	TP-59	17	1.15	10.70	11.85	9.35	76.6	
Q2459-01	TP-1	18	1.19	10.74	11.93	10.66	88.2	
Q2459-02	TP-1-EPH	19	1.15	10.88	12.03	10.8	88.7	
Q2459-03	TP-1-VOC	20	1.16	10.83	11.99	10.9	89.9	
Q2459-04	TP-1	21	1.19	10.74	11.93	10.66	88.2	
Q2462-02	60425-A	22	1.15	10.31	11.46	9.96	85.5	
Q2462-03	60425-B	23	1.14	10.66	11.8	7.91	63.5	
Q2462-04	60425-AB	24	1.19	10.57	11.76	9.66	80.1	
Q2462-05	50725	25	1.00	1.00	2.00	2.00	100.0	debris
Q2462-06	61625-A	26	1.12	10.70	11.82	9.5	78.3	
Q2462-07	61625-B	27	1.18	10.37	11.55	8.29	68.6	
Q2462-08	61625-C	28	1.19	10.65	11.84	9.11	74.4	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/1/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 06/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136327

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2462-09	61625-ABC	29	1.19	10.56	11.75	9.26	76.4	
Q2462-10	62725	30	1.00	1.00	2.00	2.00	100.0	debris
Q2464-01	OR-3-063025	31	1.12	10.76	11.88	11.57	97.1	
Q2464-02	OR-3-063025-E2	32	1.18	10.50	11.68	11.3	96.4	
Q2466-01	61825	33	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2466-02	62625	34	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2467-01	1A-1B-1C-Fire Stopher Caulk-Red	35	1.00	1.00	2.00	2.00	100.0	Caulk sample
Q2469-01	WC-1	36	1.15	10.13	11.28	9.8	85.4	
Q2469-02	WC-1-EPH	37	1.19	10.36	11.55	10.14	86.4	
Q2469-03	WC-1-VOC	38	1.15	10.84	11.99	10.74	88.5	
Q2469-04	WC-1	39	1.15	10.13	11.28	9.8	85.4	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

136327

WorkList Name : %1-063025

WorkList ID : 190450

Department : Wet-Chemistry

Date : 06-30-2025 08:06:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2451-01	Y2310-0409-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-02	Y2310-0409-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-03	Y2307-0279-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-04	Y2307-0279-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-05	KQA08OZ-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-06	KQA08OZ-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-07	HIA-925Q-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-08	HIA-925Q-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2458-01	TP-76	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/26/2025	Chemtech -SO
Q2458-02	TP-55	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-03	TP-68	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-04	TP-67	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-05	TP-66	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-06	TP-60	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-07	TP-62	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-08	TP-63	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-09	TP-59	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2459-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A51	06/28/2025	Chemtech -SO
Q2459-02	TP-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A51	06/28/2025	Chemtech -SO
Q2459-03	TP-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A51	06/28/2025	Chemtech -SO
Q2459-04	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A51	06/28/2025	Chemtech -SO

Date/Time 06/30/25 16:00

Raw Sample Received by: JWC

Raw Sample Relinquished by: JWC

Date/Time 06/30/25

Raw Sample Received by: JWC

Raw Sample Relinquished by: JWC

WORKLIST(Hardcopy Internal Chain)

130327

WorkList Name : %1-063025 WorkList ID : 190450 Department : Wet-Chemistry Date : 06-30-2025 08:06:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2462-02	60425-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-03	60425-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-04	60425-AB	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-05	50725	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-06	61625-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-07	61625-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-08	61625-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-09	60425-ABC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-10	62725	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2464-01	OR-3-063025	Solid	Percent Solids	Cool 4 deg C	PSEG05	A21	06/30/2025	Chemtech -SO
Q2464-02	OR-3-063025	Solid	Percent Solids	Cool 4 deg C	PSEG05	A21	06/30/2025	Chemtech -SO
Q2466-01	61825	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/30/2025	Chemtech -SO
Q2466-02	62625	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/30/2025	Chemtech -SO
Q2467-01	1A-1B-1C-Fire Stopper Caulk-R	Solid	Percent Solids	Cool 4 deg C	ATCE02	A61	06/26/2025	Chemtech -SO
Q2469-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	06/30/2025	Chemtech -SO
Q2469-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	06/30/2025	Chemtech -SO
Q2469-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	06/30/2025	Chemtech -SO
Q2469-04	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	06/30/2025	Chemtech -SO

06/30/25 16:00

Date/Time 06/30/25 17:30

Raw Sample Received by: SP CSM

Raw Sample Relinquished by: SP CSM



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **CDM SMITH**
ADDRESS: **110 FIELDCREST AVE #8 6TH FLOOR**
CITY: **EDISON** STATE: **NJ** ZIP: **08837**
ATTENTION: **MARCIE ENCINAS**
PHONE: **7325904679** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **SOUTH RIVER WM REPLACEMENT**
PROJECT NO.: **302781** LOCATION: **SOUTH RIVER, NJ**
PROJECT MANAGER: **MARCIE ENCINAS**
e-mail: **ENCINASMA@CDMSMITH.COM**
PHONE: **7325904679** FAX:

CLIENT BILLING INFORMATION

BILL TO: **CDM SMITH** PO#: **7325904679**
ADDRESS: **110 FIELDCREST AVE #8 6TH FLOOR**
CITY: **EDISON** STATE: **NJ** ZIP: **08837**
ATTENTION: **MARCIE ENCINAS** PHONE: **7325904679**

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

TCL VOC
TCL NVOC
PCB'S
TAL METALS
PESTICIDES
HERBICIDES
DRO/GRO

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TP-70	S		X	6/26/25	1115	6	X	X	X	X	X	X	X			E
2.	TP-65	S		X	6/26/25	1200	6	X	X	X	X	X	X	X			E
3.	TP-68	S		X	6/27/25	0745	6	X	X	X	X	X	X	X			E
4.	TP-67	S		X	6/27/25	0805	6	X	X	X	X	X	X	X			E
5.	TP-66	S		X	6/27/25	0835	6	X	X	X	X	X	X	X			E
6.	TP-60	S		X	6/27/25	0910	6	X	X	X	X	X	X	X			E
7.	TP-62	S		X	6/27/25	1005	6	X	X	X	X	X	X	X			E
8.	TP-63	S		X	6/27/25	1055	6	X	X	X	X	X	X	X			E
9.	TP-54	S		X	6/27/25	1205	6	X	X	X	X	X	X	X			E
10.	FB-06272025	BAR		X	6/27/25	1300	9	X	X	X	X	X	X	X			E, A, B

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP _____ °C
1. <i>[Signature]</i>	6/27/25/1600	<i>[Signature]</i> 1600	Comments: _____
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. <i>[Signature]</i>			
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3. <i>[Signature]</i>	6-27-25		

Page _____ of _____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

From: Encinas, Marcie (Puskarik) <encinasma@cdmsmith.com>
Sent: Monday, June 30, 2025 12:44 PM
Subject: FW: sample id and sample not mentioned on COC

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Thank you for reaching out - Please see below.

Would it be possible to also have excel results emailed with results compared to the current NJDEP SRS?

Marcie

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, June 30, 2025 10:24 AM
To: Encinas, Marcie (Puskarik) <encinasma@cdmsmith.com>
Cc: Mohammad Ahmed <mohammad.ahmed@alliancetg.com>; Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Subject: sample id and sample not mentioned on COC

You don't often get email from deepak.parmar@alliancetg.com. [Learn why this is important](#)

Good morning,

Samples received with 6/27/2025 shipment has below discrepancies

issue 1# sample (2) TP-65 mentioned on COC, however sample received as TP-55 let us know which sample ID to use ? **TP-55 is the correct label for the samples.**

Issue2# Lab receives two TB water samples but not mentioned on COC. Lab would like to know how to proceed with analysis ? **I believe those are temperature blanks, which do not require analysis. We are only analyzing trip blanks if the same also includes aqueous samples.**

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900

Address: 284 Sheffield St, Ste 1,
Mountainside, NJ 07092



Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2458 CAMP02

Order Date : 6/27/2025 4:22:00 PM

Project Mgr :

Client Name : CDM Smith

Project Name : South River WM Replacem

Report Type : Level 2 *all*

Client Contact : Marcie Ann Encinas

Receive DateTime : 6/27/2025 ~~12:00:00 AM~~ *10:55 PM* *all*

EDD Type : EXCEL NOCLEANUP

Invoice Name : CDM Smith

Purchase Order :

Hard Copy Date :

Invoice Contact : Marcie Ann Encinas

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2458-01	TP-76	Solid	06/26/2025	11:15					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2458-02	TP- ~~65~~ <i>55 all</i>	Solid	06/26/2025	12:00					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2458-03	TP-68	Solid	06/27/2025	07: <i>45</i>					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2458-04	TP-67	Solid	06/27/2025	08:05					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2458-05	TP-66	Solid	06/27/2025	08:35					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2458-06	TP-60	Solid	06/27/2025	09:10					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2458-07	TP-62	Solid	06/27/2025	10:05					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2458-08	TP-63	Solid	06/27/2025	10:55					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2458	CAMP02	Order Date : 6/27/2025 4:22:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 2 <i>add</i>
Client Contact : Marcie Ann Encinas		Receive DateTime : 6/27/2025 ~~12:00:00 AM~~ <i>16:55 PM</i>	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order :	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2458-09	TP-59	Solid	06/27/2025	12:05	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2458-10	FB-06272025	Water	06/27/2025	13:00	VOC-TCLVOA-10		8260D	10 Bus. Days	
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinquished By : *[Signature]*

Date / Time : 6/30/25 0900

Received By : *[Signature]*

Date / Time : 6/30/25 9:00

Storage Area : VOA Refridgerator Room

SAMPLES RECEIVED ON 6/27/25 @ 1655
SAMPLES PLACED IN SM-REF-2

Ref #6
#2-2
Ref #4