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Cover Page

Order ID : Q2436

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number	Client Sample Number
Q2436-01	TP-70
Q2436-02	TP-69
Q2436-03	TP-85
Q2436-04	TP-86
Q2436-05	TP-84
Q2436-06	TP-83
Q2436-07	TP-87
Q2436-08	TP-100
Q2436-09	TP-99
Q2436-10	TP-82

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: 7/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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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 is 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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2436**

	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:** **07/03/2025**

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LAB CHRONICLE

OrderID:	Q2436	**OrderDate:**	6/26/2025 3:41:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2436-01	**TP-70**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-02	**TP-69**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-03	**TP-85**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/30/25	
Q2436-04	**TP-86**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/30/25	
Q2436-05	**TP-84**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/30/25	
Q2436-06	**TP-83**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-07	**TP-87**	**SOIL**			**06/26/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-08	**TP-100**	**SOIL**			**06/26/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-09	**TP-99**	**SOIL**			**06/26/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-10	**TP-82**	**SOIL**			**06/26/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2436

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**TP-70**								
Q2436-01	TP-70	SOIL	Acetone		18.5	J	4.10	21.5	ug/Kg
Q2436-01	TP-70	SOIL	Methylene Chloride		4.10	J	3.00	8.60	ug/Kg
			Total Voc :		22.6				
Q2436-01	TP-70	SOIL	Hexane, 3-methyl-	*	4.70	J	0	0	ug/Kg
Q2436-01	TP-70	SOIL	Heptane, 3-methyl-	*	4.40	J	0	0	ug/Kg
Q2436-01	TP-70	SOIL	2-Ethyl-oxetane	*	4.80	J	0	0	ug/Kg
			Total Tics :		13.9				
			Total Concentration:		36.5				
Client ID:	**TP-69**								
Q2436-02	TP-69	SOIL	Acetone		77.9		4.40	23.4	ug/Kg
Q2436-02	TP-69	SOIL	Methylene Chloride		5.90	J	3.30	9.40	ug/Kg
Q2436-02	TP-69	SOIL	2-Butanone		9.80	J	6.10	23.4	ug/Kg
			Total Voc :		93.6				
			Total Concentration:		93.6				
Client ID:	**TP-85**								
Q2436-03	TP-85	SOIL	Acetone		33.3		4.10	21.7	ug/Kg
Q2436-03	TP-85	SOIL	Carbon Disulfide		0.99	J	0.92	4.30	ug/Kg
Q2436-03	TP-85	SOIL	Methylene Chloride		4.90	J	3.10	8.70	ug/Kg
			Total Voc :		39.2				
			Total Concentration:		39.2				
Client ID:	**TP-86**								
Q2436-04	TP-86	SOIL	Methylene Chloride		6.10	J	3.30	9.30	ug/Kg
			Total Voc :		6.10				
Q2436-04	TP-86	SOIL	Diethyl Ether	*	1.80	J	0.72	4.70	ug/Kg
			Total Tics :		1.80				
			Total Concentration:		7.90				
Client ID:	**TP-84**								
Q2436-05	TP-84	SOIL	Methylene Chloride		4.10	J	3.10	8.80	ug/Kg
			Total Voc :		4.10				
			Total Concentration:		4.10				
Client ID:	**TP-100**								
Q2436-08	TP-100	SOIL	Methylene Chloride		3.40	J	2.90	8.20	ug/Kg
			Total Voc :		3.40				
			Total Concentration:		3.40				
Client ID:	**TP-82**								
Q2436-10	TP-82	SOIL	Methylene Chloride		3.60	J	3.30	9.50	ug/Kg
			Total Voc :		3.60				
			Total Concentration:		3.60				

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Hit Summary Sheet
SW-846

SDG No.: Q2436

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

QC SUMMARY

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

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits Low	Limits High
Q2436-01	TP-70	1,2-Dichloroethane-d4	50	41.9	84		63	155
		Dibromofluoromethane	50	47.8	96		70	134
		Toluene-d8	50	49.3	99		74	123
		4-Bromofluorobenzene	50	49.6	99		17	146
Q2436-02	TP-69	1,2-Dichloroethane-d4	50	46.8	94		63	155
		Dibromofluoromethane	50	49.9	100		70	134
		Toluene-d8	50	49.5	99		74	123
		4-Bromofluorobenzene	50	54.2	108		17	146
Q2436-03	TP-85	1,2-Dichloroethane-d4	50	45.5	91		63	155
		Dibromofluoromethane	50	49.5	99		70	134
		Toluene-d8	50	49.9	100		74	123
		4-Bromofluorobenzene	50	54.2	108		17	146
Q2436-04	TP-86	1,2-Dichloroethane-d4	50	48.2	96		63	155
		Dibromofluoromethane	50	49.7	99		70	134
		Toluene-d8	50	50.2	100		74	123
		4-Bromofluorobenzene	50	57.9	116		17	146
Q2436-05	TP-84	1,2-Dichloroethane-d4	50	49.9	100		63	155
		Dibromofluoromethane	50	49.9	100		70	134
		Toluene-d8	50	50.6	101		74	123
		4-Bromofluorobenzene	50	54.6	109		17	146
Q2436-06	TP-83	1,2-Dichloroethane-d4	50	46.5	93		63	155
		Dibromofluoromethane	50	49.7	99		70	134
		Toluene-d8	50	49.6	99		74	123
		4-Bromofluorobenzene	50	50.7	101		17	146
Q2436-07	TP-87	1,2-Dichloroethane-d4	50	39.1	78		63	155
		Dibromofluoromethane	50	47.0	94		70	134
		Toluene-d8	50	49.1	98		74	123
		4-Bromofluorobenzene	50	45.2	90		17	146
Q2436-08	TP-100	1,2-Dichloroethane-d4	50	48.1	96		63	155
		Dibromofluoromethane	50	49.9	100		70	134
		Toluene-d8	50	50.4	101		74	123
		4-Bromofluorobenzene	50	55.0	110		17	146
Q2436-09	TP-99	1,2-Dichloroethane-d4	50	50.2	100		63	155
		Dibromofluoromethane	50	50.7	101		70	134
		Toluene-d8	50	50.0	100		74	123
		4-Bromofluorobenzene	50	54.3	109		17	146
Q2436-10	TP-82	1,2-Dichloroethane-d4	50	49.0	98		63	155
		Dibromofluoromethane	50	50.5	101		70	134
		Toluene-d8	50	50.5	101		74	123
		4-Bromofluorobenzene	50	54.6	109		17	146
VY0627SBL01	VY0627SBL01	1,2-Dichloroethane-d4	50	44.5	89		63	155
		Dibromofluoromethane	50	49.1	98		70	134
		Toluene-d8	50	49.3	99		74	123
		4-Bromofluorobenzene	50	51.2	102		17	146
VY0627SBS01	VY0627SBS01	1,2-Dichloroethane-d4	50	48.5	97		63	155
		Dibromofluoromethane	50	50.3	101		70	134
		Toluene-d8	50	50.4	101		74	123
		4-Bromofluorobenzene	50	48.4	97		17	146
VY0627SBSD01	VY0627SBSD01	1,2-Dichloroethane-d4	50	51.8	104		63	155
		Dibromofluoromethane	50	51.6	103		70	134

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Surrogate Summary

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits Low	Limits High
VY0627SBSD01	VY0627SBSD01	Toluene-d8	50	51.0	102		74	123
		4-Bromofluorobenzene	50	49.2	98		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

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022854.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0627SBS01	Dichlorodifluoromethane	20	20.3	ug/Kg	102			64	136	
	Chloromethane	20	21.4	ug/Kg	107			52	151	
	Vinyl chloride	20	19.1	ug/Kg	96			56	148	
	Bromomethane	20	22.9	ug/Kg	115			58	141	
	Chloroethane	20	19.8	ug/Kg	99			69	130	
	Trichlorofluoromethane	20	18.5	ug/Kg	93			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/Kg	103			81	123	
	1,1-Dichloroethene	20	20.2	ug/Kg	101			79	121	
	Acetone	100	120	ug/Kg	120			40	171	
	Carbon disulfide	20	19.9	ug/Kg	100			59	130	
	Methyl tert-butyl Ether	20	19.0	ug/Kg	95			77	129	
	Methyl Acetate	20	15.2	ug/Kg	76			69	149	
	Methylene Chloride	20	23.3	ug/Kg	117			72	131	
	trans-1,2-Dichloroethene	20	19.9	ug/Kg	100			80	123	
	1,1-Dichloroethane	20	20.1	ug/Kg	101			82	123	
	Cyclohexane	20	20.1	ug/Kg	101			76	122	
	2-Butanone	100	94.9	ug/Kg	95			69	131	
	Carbon Tetrachloride	20	19.7	ug/Kg	99			76	129	
	cis-1,2-Dichloroethene	20	19.8	ug/Kg	99			82	123	
	Bromochloromethane	20	19.8	ug/Kg	99			80	127	
	Chloroform	20	19.9	ug/Kg	100			82	125	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			80	126	
	Methylcyclohexane	20	20.1	ug/Kg	101			77	123	
	Benzene	20	19.9	ug/Kg	100			84	121	
	1,2-Dichloroethane	20	19.0	ug/Kg	95			81	126	
	Trichloroethene	20	19.9	ug/Kg	100			83	122	
	1,2-Dichloropropane	20	19.7	ug/Kg	99			83	122	
	Bromodichloromethane	20	19.2	ug/Kg	96			82	123	
	4-Methyl-2-Pentanone	100	85.5	ug/Kg	86			70	135	
	Toluene	20	19.7	ug/Kg	99			83	122	
	t-1,3-Dichloropropene	20	18.6	ug/Kg	93			78	124	
	cis-1,3-Dichloropropene	20	19.9	ug/Kg	100			81	122	
	1,1,2-Trichloroethane	20	18.7	ug/Kg	94			82	125	
	2-Hexanone	100	89.6	ug/Kg	90			66	138	
	Dibromochloromethane	20	18.6	ug/Kg	93			79	125	
	1,2-Dibromoethane	20	18.4	ug/Kg	92			80	125	
	Tetrachloroethene	20	20.1	ug/Kg	101			83	125	
	Chlorobenzene	20	20.1	ug/Kg	101			84	122	
	Ethyl Benzene	20	20.5	ug/Kg	103			82	124	
	m/p-Xylenes	40	40.3	ug/Kg	101			83	124	
	o-Xylene	20	20.0	ug/Kg	100			83	123	
	Styrene	20	19.4	ug/Kg	97			82	124	
	Bromoform	20	17.8	ug/Kg	89			75	127	
	Isopropylbenzene	20	21.3	ug/Kg	106			82	124	
	1,1,2,2-Tetrachloroethane	20	19.1	ug/Kg	96			77	127	
	1,3-Dichlorobenzene	20	20.1	ug/Kg	101			83	122	
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	20	19.5	ug/Kg	98			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022854.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0627SBS01	1,2-Dibromo-3-Chloropropane	20	17.5	ug/Kg	88			66	134	
	1,2,4-Trichlorobenzene	20	18.7	ug/Kg	94			78	127	
	1,2,3-Trichlorobenzene	20	18.3	ug/Kg	92			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022855.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0627SBSD01	Dichlorodifluoromethane	20	20.9	ug/Kg	104	2		64	136	20
	Chloromethane	20	22.0	ug/Kg	110	3		52	151	20
	Vinyl chloride	20	19.1	ug/Kg	96	0		56	148	20
	Bromomethane	20	22.7	ug/Kg	114	1		58	141	20
	Chloroethane	20	18.7	ug/Kg	94	5		69	130	20
	Trichlorofluoromethane	20	17.9	ug/Kg	90	3		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102	1		81	123	20
	1,1-Dichloroethene	20	21.5	ug/Kg	108	7		79	121	20
	Acetone	100	120	ug/Kg	120	0		40	171	20
	Carbon disulfide	20	20.9	ug/Kg	104	4		59	130	20
	Methyl tert-butyl Ether	20	21.5	ug/Kg	108	13		77	129	20
	Methyl Acetate	20	17.8	ug/Kg	89	16		69	149	20
	Methylene Chloride	20	24.9	ug/Kg	125	7		72	131	20
	trans-1,2-Dichloroethene	20	21.6	ug/Kg	108	8		80	123	20
	1,1-Dichloroethane	20	22.1	ug/Kg	111	9		82	123	20
	Cyclohexane	20	20.4	ug/Kg	102	1		76	122	20
	2-Butanone	100	110	ug/Kg	110	15		69	131	20
	Carbon Tetrachloride	20	19.8	ug/Kg	99	0		76	129	20
	cis-1,2-Dichloroethene	20	21.7	ug/Kg	109	10		82	123	20
	Bromochloromethane	20	21.0	ug/Kg	105	6		80	127	20
	Chloroform	20	21.5	ug/Kg	108	8		82	125	20
	1,1,1-Trichloroethane	20	21.1	ug/Kg	106	5		80	126	20
	Methylcyclohexane	20	19.7	ug/Kg	99	2		77	123	20
	Benzene	20	20.8	ug/Kg	104	4		84	121	20
	1,2-Dichloroethane	20	20.9	ug/Kg	104	9		81	126	20
	Trichloroethene	20	20.4	ug/Kg	102	2		83	122	20
	1,2-Dichloropropane	20	21.1	ug/Kg	106	7		83	122	20
	Bromodichloromethane	20	20.8	ug/Kg	104	8		82	123	20
	4-Methyl-2-Pentanone	100	94.0	ug/Kg	94	9		70	135	20
	Toluene	20	20.5	ug/Kg	103	4		83	122	20
	t-1,3-Dichloropropene	20	20.4	ug/Kg	102	9		78	124	20
	cis-1,3-Dichloropropene	20	21.1	ug/Kg	106	6		81	122	20
	1,1,2-Trichloroethane	20	20.3	ug/Kg	102	8		82	125	20
	2-Hexanone	100	95.1	ug/Kg	95	5		66	138	20
	Dibromochloromethane	20	20.1	ug/Kg	101	8		79	125	20
	1,2-Dibromoethane	20	20.0	ug/Kg	100	8		80	125	20
	Tetrachloroethene	20	20.5	ug/Kg	103	2		83	125	20
	Chlorobenzene	20	21.0	ug/Kg	105	4		84	122	20
	Ethyl Benzene	20	20.9	ug/Kg	104	1		82	124	20
	m/p-Xylenes	40	40.8	ug/Kg	102	1		83	124	20
	o-Xylene	20	20.7	ug/Kg	104	4		83	123	20
	Styrene	20	20.3	ug/Kg	102	5		82	124	20
	Bromoform	20	19.0	ug/Kg	95	7		75	127	20
	Isopropylbenzene	20	21.6	ug/Kg	108	2		82	124	20
	1,1,2,2-Tetrachloroethane	20	20.0	ug/Kg	100	4		77	127	20
	1,3-Dichlorobenzene	20	21.0	ug/Kg	105	4		83	122	20
	1,4-Dichlorobenzene	20	21.2	ug/Kg	106	6		84	121	20
	1,2-Dichlorobenzene	20	20.4	ug/Kg	102	4		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022855.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0627SBSD01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/Kg	94	7		66	134	20
	1,2,4-Trichlorobenzene	20	20.0	ug/Kg	100	6		78	127	20
	1,2,3-Trichlorobenzene	20	19.4	ug/Kg	97	5		70	137	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022874.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits 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	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022874.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
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	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0627SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: VY022853.D Lab Sample ID: VY0627SBL01

Date Analyzed: 06/27/2025 Time Analyzed: 11:32

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
VY0627SBS01	VY0627SBS01	VY022854.D	06/27/2025
VY0627SBSD01	VY0627SBSD01	VY022855.D	06/27/2025
TP-70	Q2436-01	VY022856.D	06/27/2025
TP-69	Q2436-02	VY022857.D	06/27/2025
TP-83	Q2436-06	VY022861.D	06/27/2025
TP-87	Q2436-07	VY022862.D	06/27/2025
TP-100	Q2436-08	VY022863.D	06/27/2025
TP-99	Q2436-09	VY022864.D	06/27/2025
TP-82	Q2436-10	VY022865.D	06/27/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0630SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

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
TP-85	Q2436-03	VY022877.D	06/30/2025
TP-86	Q2436-04	VY022878.D	06/30/2025
TP-84	Q2436-05	VY022879.D	06/30/2025

COMMENTS:

Raw Data: **VY022775.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY022776.D	06/23/2025	13:38
VSTDICC010	VSTDICC010	VY022777.D	06/23/2025	14:00
VSTDICC020	VSTDICC020	VY022778.D	06/23/2025	14:23
VSTDICCC050	VSTDICCC050	VY022779.D	06/23/2025	14:46
VSTDICC100	VSTDICC100	VY022780.D	06/23/2025	15:08
VSTDICC150	VSTDICC150	VY022781.D	06/23/2025	15:31

Raw Data: **VY022851.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: VY022851.D BFB Injection Date: 06/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:31

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	22.1
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	6.5
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	77.3 (96) 1
177	5.0 - 9.0% of mass 176	5.1 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022852.D	06/27/2025	11:00
VY0627SBL01	VY0627SBL01	VY022853.D	06/27/2025	11:32
VY0627SBS01	VY0627SBS01	VY022854.D	06/27/2025	12:00
VY0627SBSD01	VY0627SBSD01	VY022855.D	06/27/2025	12:22
TP-70	Q2436-01	VY022856.D	06/27/2025	12:59
TP-69	Q2436-02	VY022857.D	06/27/2025	13:22
TP-83	Q2436-06	VY022861.D	06/27/2025	14:56
TP-87	Q2436-07	VY022862.D	06/27/2025	15:19
TP-100	Q2436-08	VY022863.D	06/27/2025	15:43
TP-99	Q2436-09	VY022864.D	06/27/2025	16:06
TP-82	Q2436-10	VY022865.D	06/27/2025	16:30

Raw Data: **VY022871.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

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:

EPA SAMPLE NO.	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
TP-85	Q2436-03	VY022877.D	06/30/2025	13:32
TP-86	Q2436-04	VY022878.D	06/30/2025	14:28
TP-84	Q2436-05	VY022879.D	06/30/2025	14:52

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: VY022852.D Date Analyzed: 06/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:00

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	460120	7.71	754723	8.62	647658	11.42
UPPER LIMIT	920240	8.213	1509450	9.122	1295320	11.92
LOWER LIMIT	230060	7.213	377362	8.122	323829	10.92
EPA SAMPLE NO.						
TP-70	370411	7.71	661194	8.62	597332	11.42
TP-69	340803	7.71	625770	8.62	598373	11.42
TP-83	337210	7.71	630445	8.62	584339	11.41
TP-87	348864	7.71	632840	8.62	540565	11.41
TP-100	312427	7.71	578070	8.62	554007	11.41
TP-99	301121	7.71	558142	8.62	536522	11.41
TP-82	318610	7.71	604014	8.62	582898	11.41
VY0627SBL01	358693	7.71	655911	8.62	603519	11.42
VY0627SBS01	438526	7.71	740220	8.62	622783	11.42
VY0627SBSD01	392671	7.71	686703	8.62	587941	11.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: VY022852.D Date Analyzed: 06/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:00

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

	IS4 AREA #	RT #				
12 HOUR STD	319930	13.347				
UPPER LIMIT	639860	13.847				
LOWER LIMIT	159965	12.847				
EPA SAMPLE NO.						
TP-70	238564	13.35				
TP-69	255220	13.35				
TP-83	232255	13.35				
TP-87	204342	13.35				
TP-100	240211	13.35				
TP-99	230605	13.35				
TP-82	250591	13.35				
VY0627SBL01	250491	13.35				
VY0627SBS01	290353	13.35				
VY0627SBSD01	274040	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

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-85	372972	7.71	690751	8.61	657778	11.41
TP-86	346216	7.71	639767	8.62	633746	11.41
TP-84	323652	7.71	612070	8.61	599073	11.41
VY0630SBL01	371114	7.71	672085	8.62	635637	11.41
VY0630SBS01	473861	7.71	796065	8.62	673720	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

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-85	284435	13.34				
TP-86	290240	13.35				
TP-84	250413	13.34				
VY0630SBL01	274914	13.35				
VY0630SBS01	318118	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.

SAMPLE DATA

Raw Data: **VY022856.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.1
Sample Wt/Vol:	7.07 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022856.D	1		06/27/25 12:59	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.98	U	0.98	4.30	ug/Kg
74-87-3	Chloromethane	0.98	U	0.98	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.68	U	0.68	4.30	ug/Kg
74-83-9	Bromomethane	0.92	U	0.92	4.30	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.91	U	0.91	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.86	U	0.86	4.30	ug/Kg
67-64-1	Acetone	18.5	J	4.10	21.5	ug/Kg
75-15-0	Carbon Disulfide	0.91	U	0.91	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	4.10	J	3.00	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.74	U	0.74	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.68	U	0.68	4.30	ug/Kg
78-93-3	2-Butanone	5.60	U	5.60	21.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.84	U	0.84	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.65	U	0.65	4.30	ug/Kg
74-97-5	Bromochloromethane	0.99	U	0.99	4.30	ug/Kg
67-66-3	Chloroform	0.72	U	0.72	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.78	U	0.78	4.30	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.68	U	0.68	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.78	U	0.78	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.67	U	0.67	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.5	ug/Kg
108-88-3	Toluene	0.67	U	0.67	4.30	ug/Kg

Raw Data: **VY022856.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.1
Sample Wt/Vol:	7.07 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022856.D	1		06/27/25 12:59	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.5	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.90	U	0.90	4.30	ug/Kg
108-90-7	Chlorobenzene	0.78	U	0.78	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.60	ug/Kg
95-47-6	o-Xylene	0.71	U	0.71	4.30	ug/Kg
100-42-5	Styrene	0.61	U	0.61	4.30	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.70	U	2.70	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.9		63 - 155	84%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	370000	7.713			
540-36-3	1,4-Difluorobenzene	661000	8.616			
3114-55-4	Chlorobenzene-d5	597000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	239000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022856.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.1
Sample Wt/Vol:	7.07 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022856.D	1		06/27/25 12:59	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1010386-40-2	2-Ethyl-oxetane	4.80	J		5.65	ug/Kg
000589-34-4	Hexane, 3-methyl-	4.70	J		7.92	ug/Kg
000589-81-1	Heptane, 3-methyl-	4.40	J		9.89	ug/Kg

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022856.D
Acq On : 27 Jun 2025 12:59
Operator : SY/MD
Sample : Q2436-01
Misc : 7.07g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

Quant Time: Jun 27 23:16:54 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

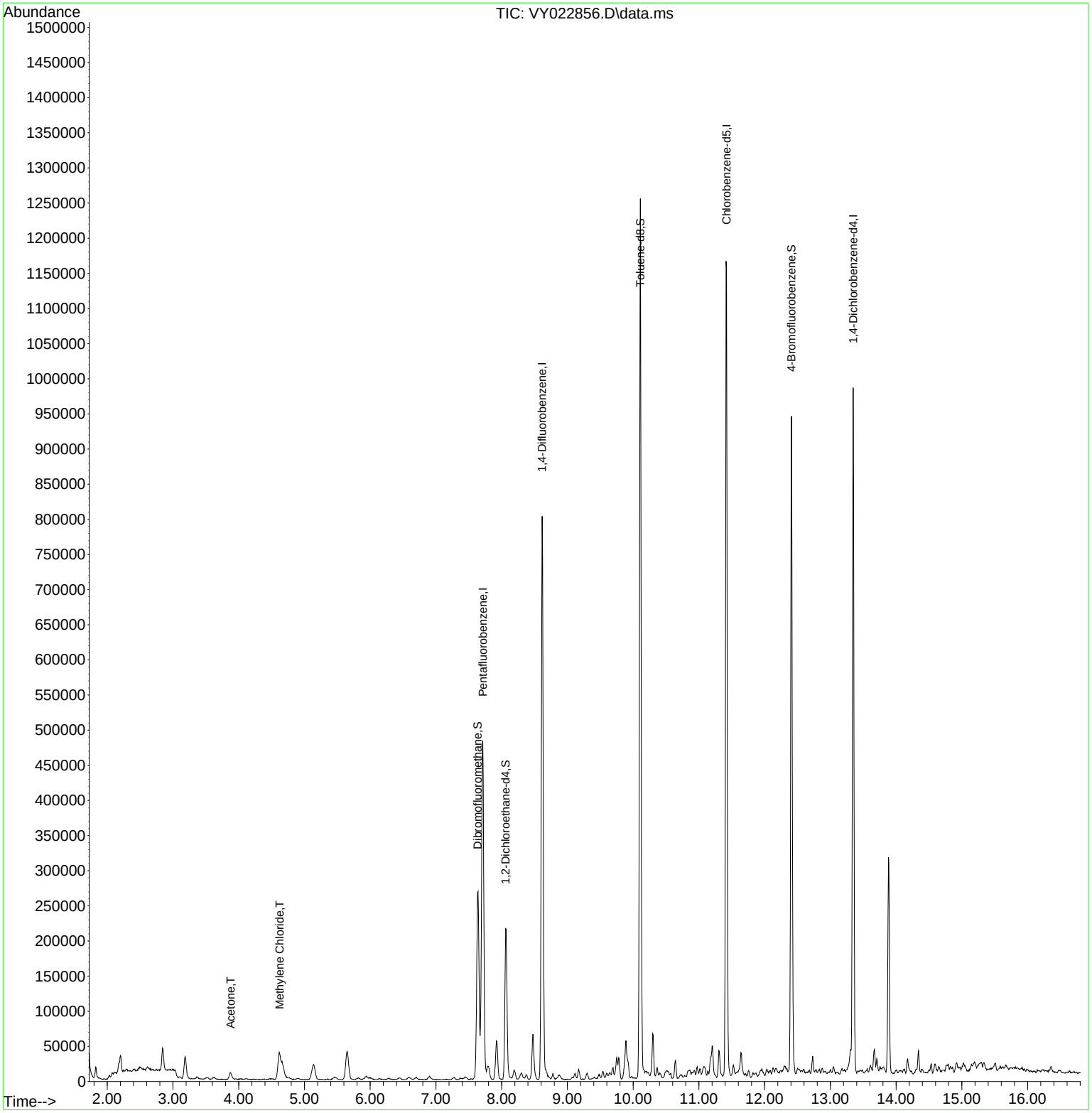
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	370411	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	661194	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	597332	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	238564	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	173351	41.931	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	83.860%		
35) Dibromofluoromethane	7.634	113	192063	47.764	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	95.520%		
50) Toluene-d8	10.109	98	786805	49.310	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	98.620%		
62) 4-Bromofluorobenzene	12.408	95	254665	49.648	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	99.300%		
Target Compounds						Qvalue
16) Acetone	3.879	43	16798	21.498	ug/l #	85
20) Methylene Chloride	4.623	84	23678	4.798	ug/l	97

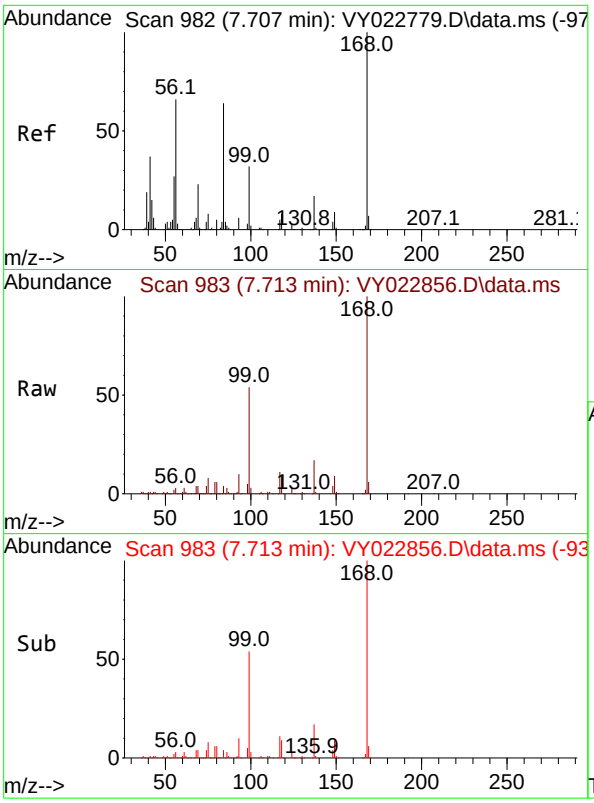
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022856.D
Acq On : 27 Jun 2025 12:59
Operator : SY/MD
Sample : Q2436-01
Misc : 7.07g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

Quant Time: Jun 27 23:16:54 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



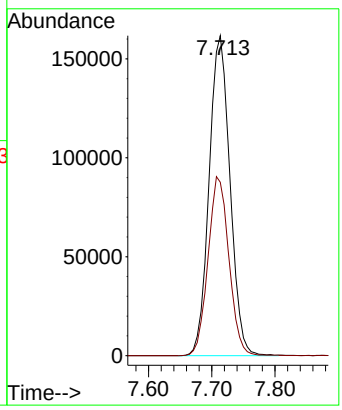


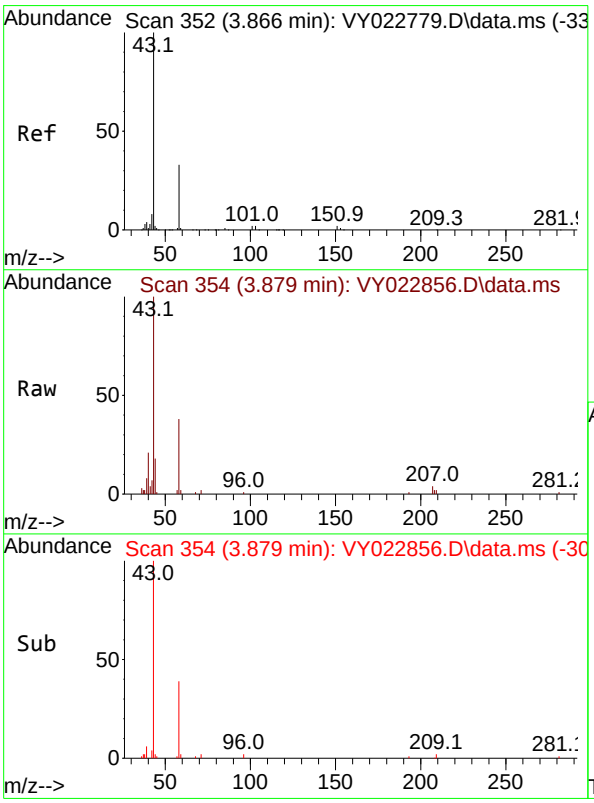
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022856.D
Acq: 27 Jun 2025 12:59

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

Tgt Ion:168 Resp: 370411

Ion	Ratio	Lower	Upper
168	100		
99	54.2	44.3	66.5

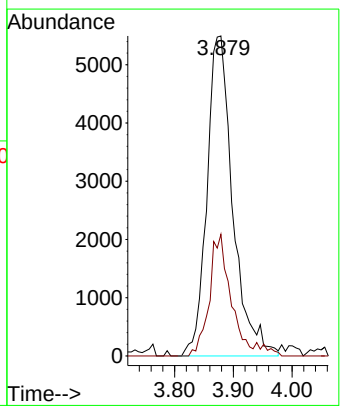


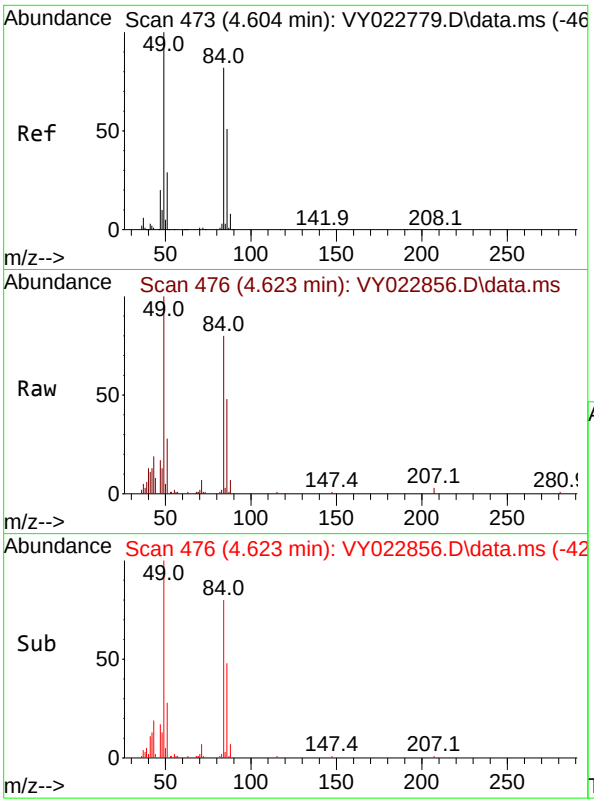


#16
Acetone
Concen: 21.498 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.000 min
Lab File: VY022856.D
Acq: 27 Jun 2025 12:59

Tgt Ion: 43 Resp: 16798

Ion	Ratio	Lower	Upper
43	100		
58	38.0	24.0	36.0#



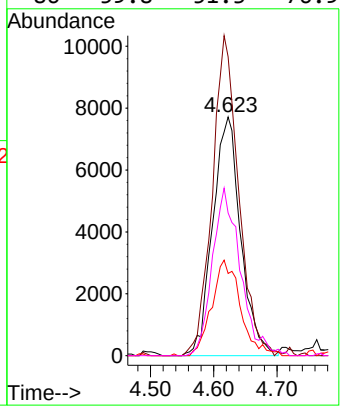


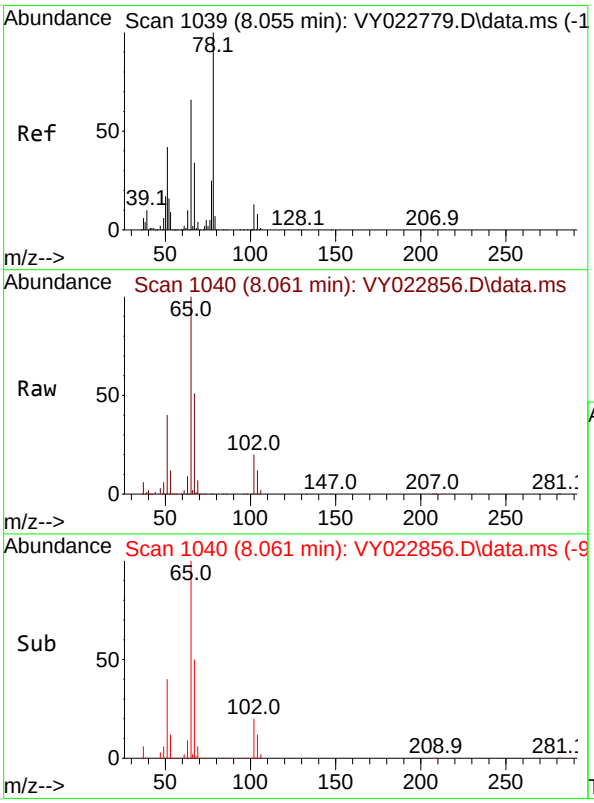
#20
Methylene Chloride
Concen: 4.798 ug/l
RT: 4.623 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY022856.D
Acq: 27 Jun 2025 12:59

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

Tgt Ion: 84 Resp: 23678

Ion	Ratio	Lower	Upper
84	100		
49	125.2	101.9	152.9
51	34.5	29.8	44.8
86	59.8	51.3	76.9

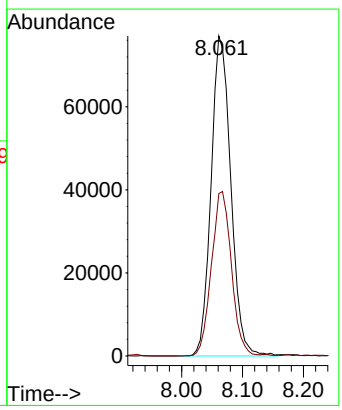


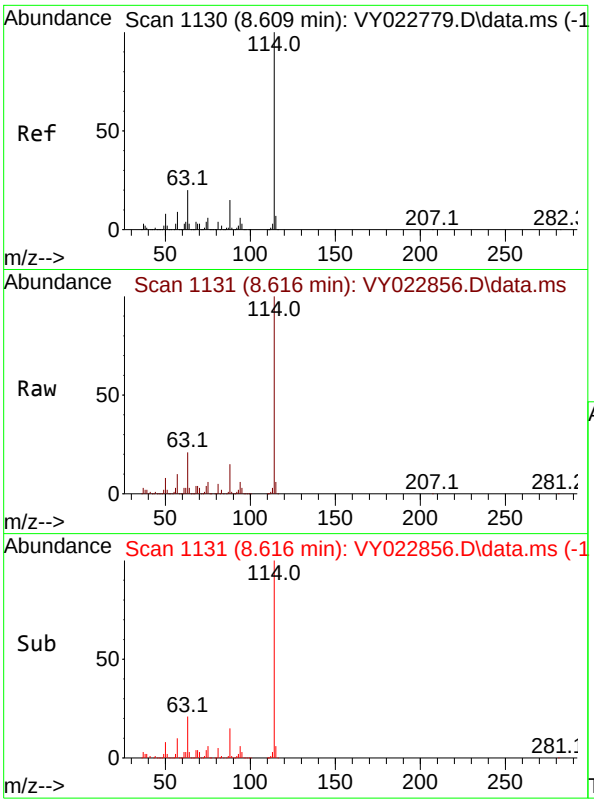


#33
1,2-Dichloroethane-d4
Concen: 41.931 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022856.D
Acq: 27 Jun 2025 12:59

Tgt Ion: 65 Resp: 173351

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.4



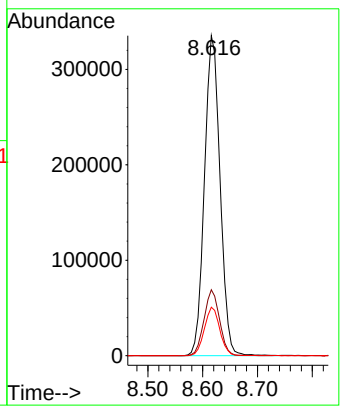


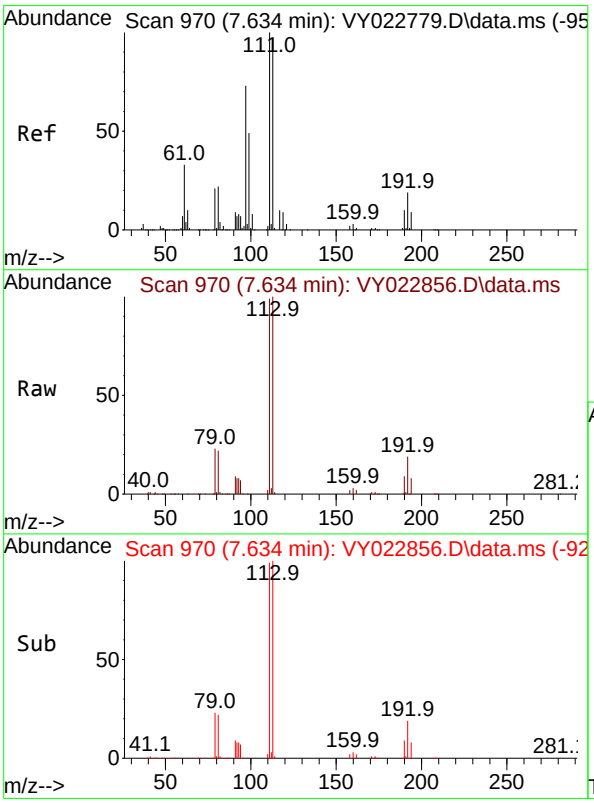
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022856.D
Acq: 27 Jun 2025 12:59

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

Tgt Ion:114 Resp: 661194

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.8
88	15.2	0.0	27.8

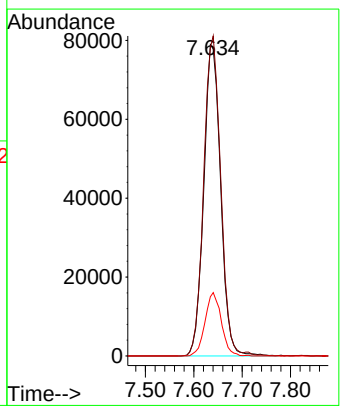


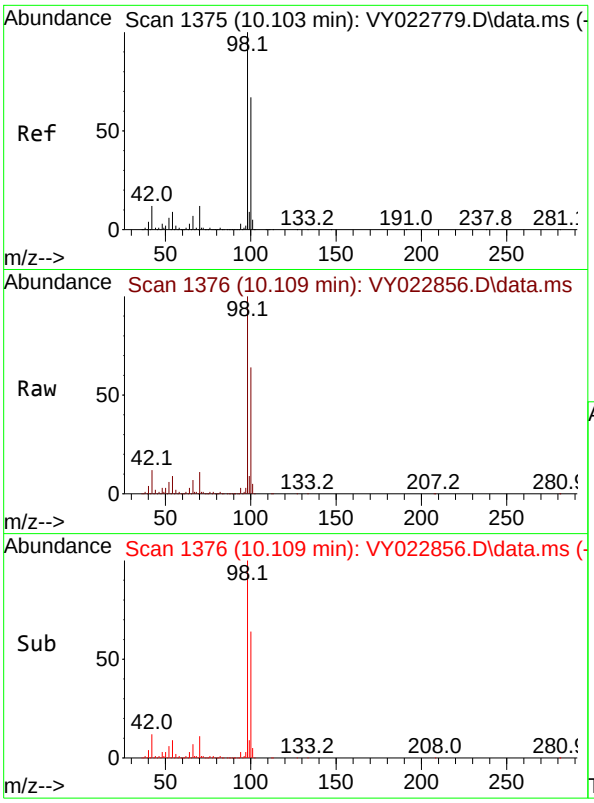


#35
Dibromofluoromethane
Concen: 47.764 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022856.D
Acq: 27 Jun 2025 12:59

Tgt Ion:113 Resp: 192063

Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.1	121.7
192	19.5	14.2	21.2



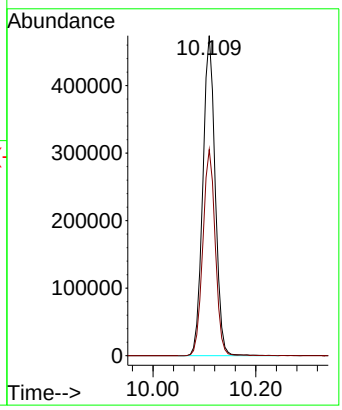


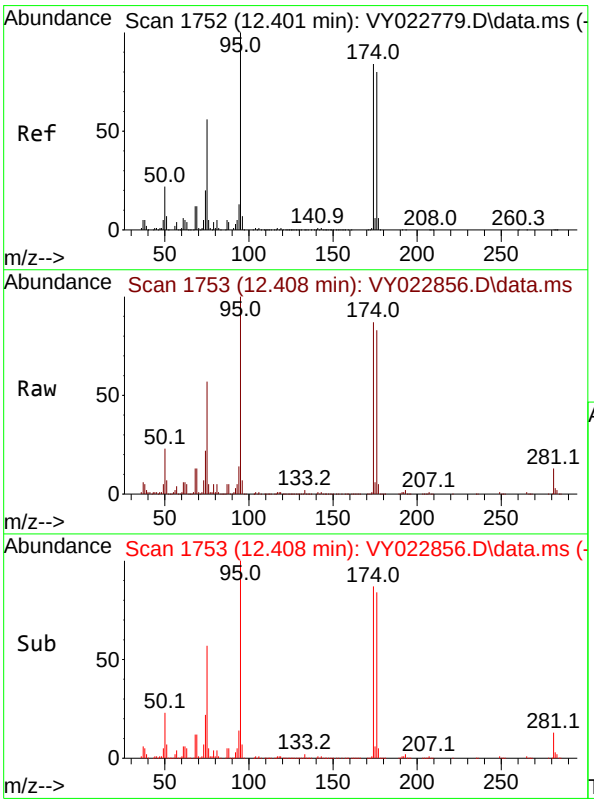
#50
Toluene-d8
Concen: 49.310 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022856.D
Acq: 27 Jun 2025 12:59

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

Tgt Ion: 98 Resp: 786805

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.4	77.0

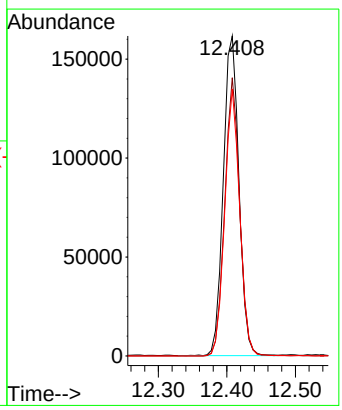


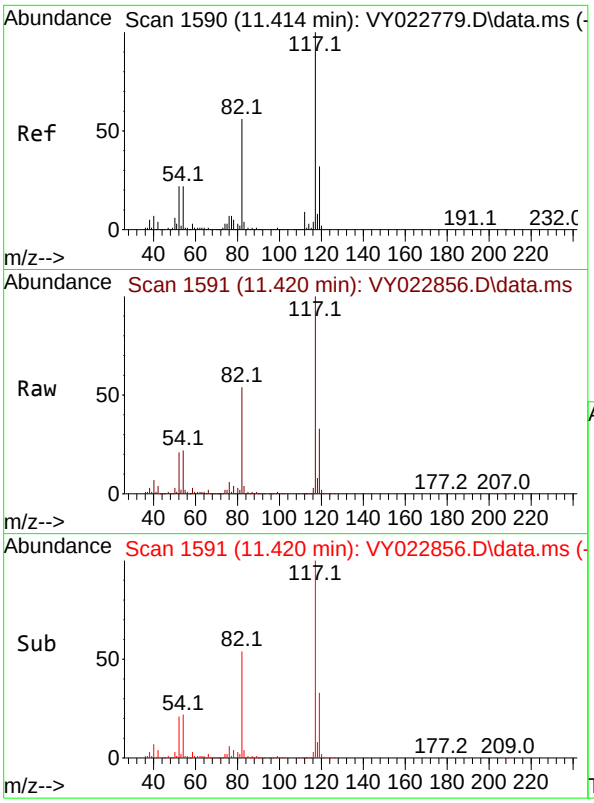


#62
4-Bromofluorobenzene
Concen: 49.648 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022856.D
Acq: 27 Jun 2025 12:59

Tgt Ion: 95 Resp: 254665

Ion	Ratio	Lower	Upper
95	100		
174	83.6	0.0	170.0
176	80.3	0.0	166.2



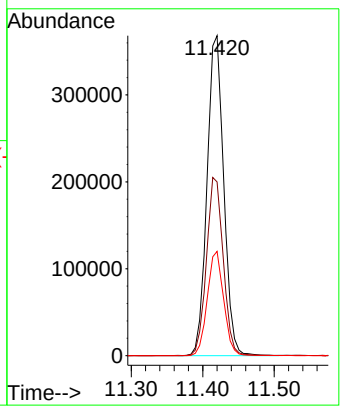


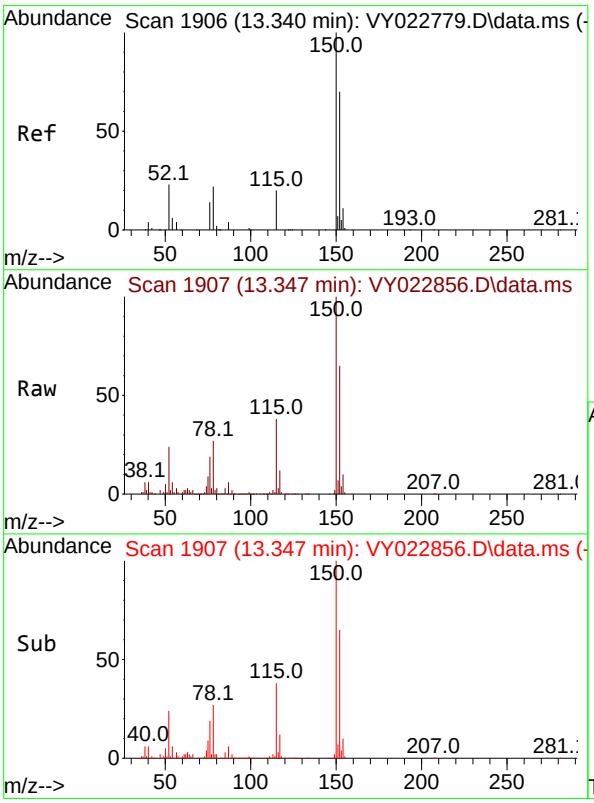
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022856.D
Acq: 27 Jun 2025 12:59

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

Tgt Ion:117 Resp: 597332

Ion	Ratio	Lower	Upper
117	100		
82	54.2	44.6	66.8
119	32.6	25.4	38.0

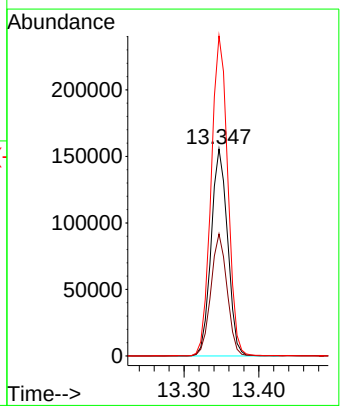




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022856.D
Acq: 27 Jun 2025 12:59

Tgt Ion:152 Resp: 238564

Ion	Ratio	Lower	Upper
152	100		
115	57.9	28.9	86.7
150	155.7	0.0	349.6



Sample Results: **VY022856.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022856.D
Acq On : 27 Jun 2025 12:59
Operator : SY/MD
Sample : Q2436-01
Misc : 7.07g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

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: VY022856.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	rVB4	16171	26550	1.25%	0.193%
2	2.202	71	79	85	rBV2	23727	55613	2.62%	0.405%
3	2.842	178	184	192	rBV2	31255	63172	2.97%	0.460%
4	3.184	232	240	250	rBV2	31219	76383	3.59%	0.556%
5	3.873	345	353	363	rBV2	9877	28528	1.34%	0.208%
6	4.616	464	475	481	rBV2	39144	129586	6.09%	0.944%
7	5.141	546	561	572	rBV5	22097	82478	3.88%	0.601%
8	5.647	631	644	660	rBV2	40515	131968	6.21%	0.961%
9	7.640	958	971	976	rBV	267636	672689	31.63%	4.898%
10	7.713	976	983	992	rVV	481641	1176749	55.33%	8.569%
11	7.787	992	995	1005	rVV6	18719	51377	2.42%	0.374%
12	7.921	1009	1017	1027	rBV2	54618	129634	6.10%	0.944%
13	8.061	1032	1040	1051	rBV	214575	492168	23.14%	3.584%
14	8.189	1055	1061	1068	rVB4	12914	30246	1.42%	0.220%
15	8.305	1071	1080	1087	rBV3	8619	23424	1.10%	0.171%
16	8.476	1099	1108	1120	rVB	64449	138158	6.50%	1.006%
17	8.616	1122	1131	1140	rBV	801780	1593133	74.91%	11.601%
18	9.171	1218	1222	1230	rVB3	14431	26510	1.25%	0.193%
19	9.750	1311	1317	1320	rVV3	24908	48699	2.29%	0.355%
20	9.780	1320	1322	1329	rVB2	30239	47097	2.21%	0.343%
21	9.890	1329	1340	1352	rBV4	54926	162679	7.65%	1.185%
22	10.109	1366	1376	1387	rBV	1251571	2126681	100.00%	15.486%
23	10.298	1400	1407	1414	rVB	59837	105172	4.95%	0.766%
24	10.512	1431	1442	1450	rBV6	9738	40926	1.92%	0.298%
25	10.640	1456	1463	1468	rBV2	25647	44720	2.10%	0.326%
26	11.079	1528	1535	1542	rVB6	12588	35230	1.66%	0.257%
27	11.201	1547	1555	1566	rVB4	44978	128904	6.06%	0.939%
28	11.304	1566	1572	1582	rBV2	38303	74007	3.48%	0.539%
29	11.414	1582	1590	1601	rBV	1159742	1912081	89.91%	13.924%
30	11.524	1603	1608	1613	rBV5	14768	26716	1.26%	0.195%
31	11.640	1613	1627	1635	rVB5	31913	82020	3.86%	0.597%
32	12.408	1746	1753	1764	rVB2	935725	1545805	72.69%	11.256%
33	12.731	1801	1806	1811	rBV4	24577	38728	1.82%	0.282%
34	13.304	1892	1900	1901	rBV5	28969	48431	2.28%	0.353%
35	13.347	1901	1907	1916	rVB	975631	1529382	71.91%	11.137%
36	13.670	1955	1960	1963	rVV5	31198	54630	2.57%	0.398%

Sample Results: **VY022856.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022856.D
Acq On : 27 Jun 2025 12:59
Operator : SY/MD
Sample : Q2436-01
Misc : 7.07g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

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

37	13.706	1963	1966	1971	rVB3	17163	24572	1.16%	0.179%
38	13.883	1989	1995	2002	rVB2	306197	504789	23.74%	3.676%
39	14.176	2038	2043	2050	rBV9	20591	41910	1.97%	0.305%
40	14.340	2066	2070	2076	rVB2	30533	45323	2.13%	0.330%
41	14.590	2105	2111	2117	rBV3	13285	31003	1.46%	0.226%
42	14.919	2159	2165	2168	rBV5	13841	28895	1.36%	0.210%
43	15.023	2177	2182	2191	rVB5	11548	32252	1.52%	0.235%
44	15.194	2205	2210	2215	rVB9	9046	21456	1.01%	0.156%
45	15.334	2230	2233	2240	rVB9	10884	22084	1.04%	0.161%

Sum of corrected areas: 13732558

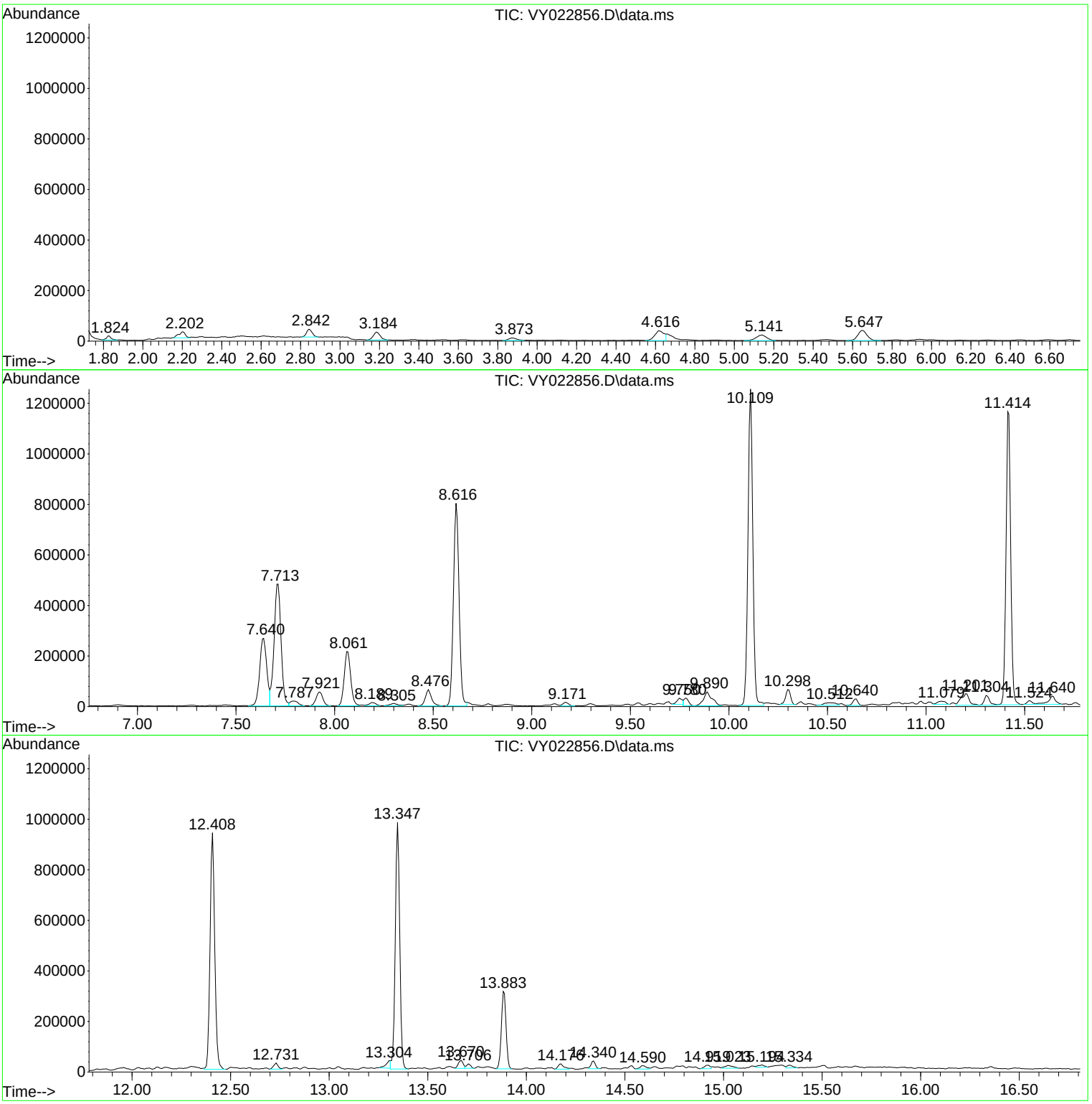
Sample Results: **VY022856.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022856.D
Acq On : 27 Jun 2025 12:59
Operator : SY/MD
Sample : Q2436-01
Misc : 7.07g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

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\VY062725\
Data File : VY022856.D
Acq On : 27 Jun 2025 12:59
Operator : SY/MD
Sample : Q2436-01
Misc : 7.07g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

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

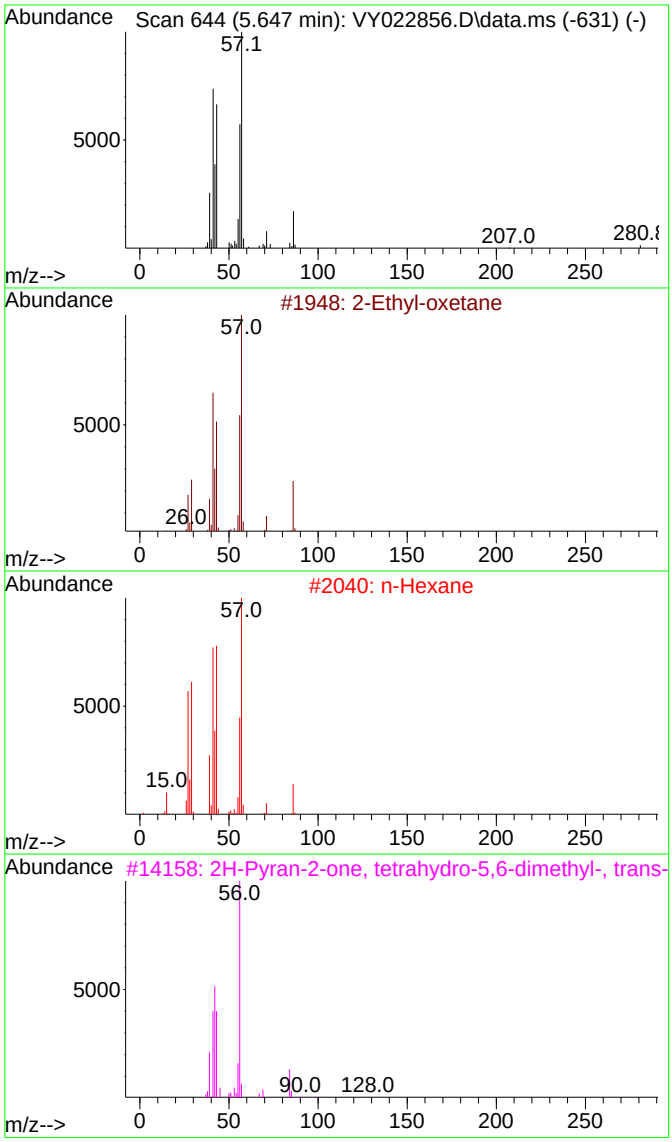
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

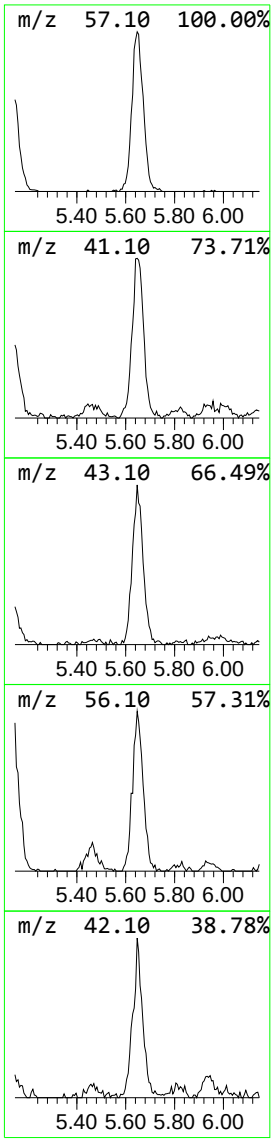
****

Peak Number 1 2-Ethyl-oxetane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.647	5.61 ug/l	131968	Pentafluorobenzene	7.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Ethyl-oxetane	86	C5H10O	1010386-40-2	90
2	n-Hexane	86	C6H14	000110-54-3	86
3	2H-Pyran-2-one, tetrahydro-5,6-d...	128	C7H12O2	024405-16-1	47
4	Cyclopropane, propyl-	84	C6H12	002415-72-7	47
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022856.D
Acq On : 27 Jun 2025 12:59
Operator : SY/MD
Sample : Q2436-01
Misc : 7.07g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

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

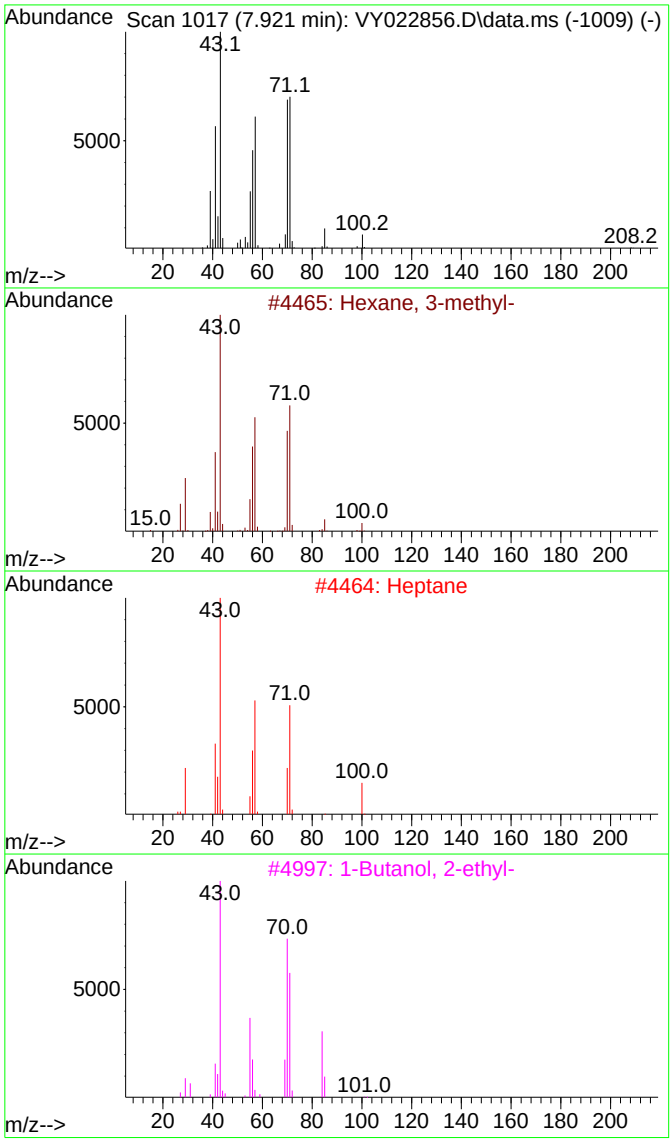
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

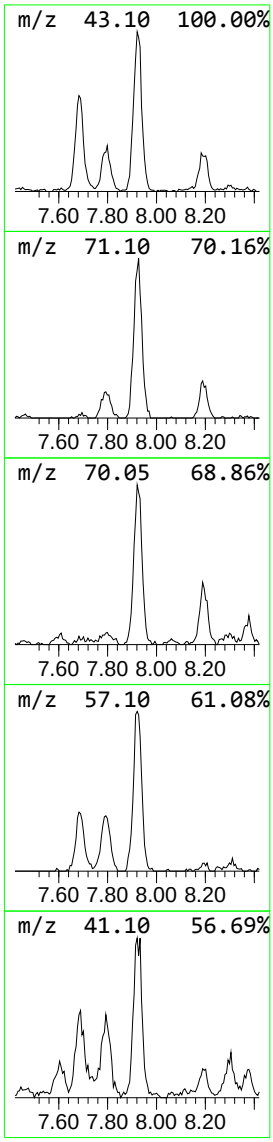
****

Peak Number 2 Hexane, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.921	5.51 ug/l	129634	Pentafluorobenzene	7.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2	Heptane	100	C7H16	000142-82-5	72
3	1-Butanol, 2-ethyl-	102	C6H14O	000097-95-0	59
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	59
5	Heptane, 3-ethyl-4-methyl-	142	C10H22	052896-91-0	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022856.D
Acq On : 27 Jun 2025 12:59
Operator : SY/MD
Sample : Q2436-01
Misc : 7.07g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

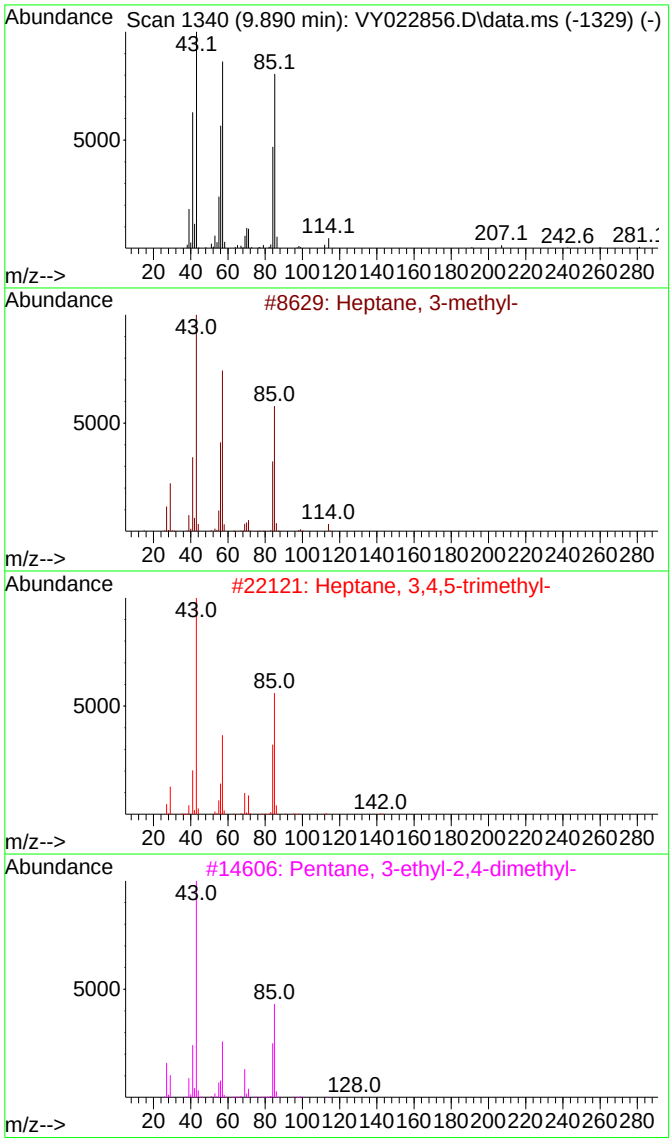
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

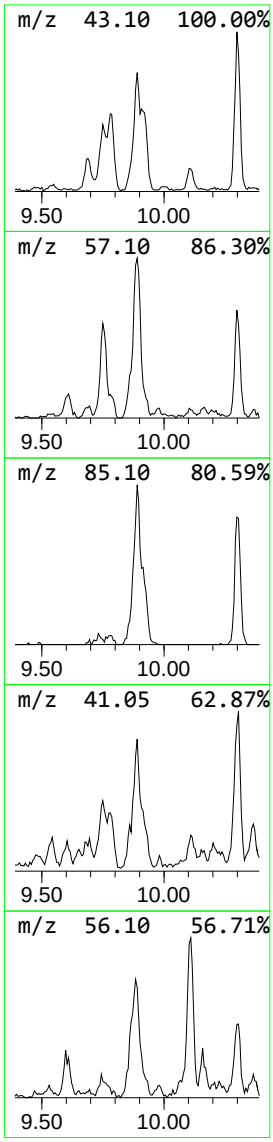
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Heptane, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.890	5.11 ug/l	162679	1,4-Difluorobenzene	8.616

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3,4,5-trimethyl-	142	C10H22	020278-89-1	64
3	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	59
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	50
5	2H-Pyran-2-ol, tetrahydro-	102	C5H10O2	000694-54-2	47





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022856.D
Acq On : 27 Jun 2025 12:59
Operator : SY/MD
Sample : Q2436-01
Misc : 7.07g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-70

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Ethyl-oxetane	5.647	5.6	ug/l	131968	1	7.713	1176750	50.0
Hexane, 3-methyl-	7.921	5.5	ug/l	129634	1	7.713	1176750	50.0
Heptane, 3-methyl-	9.890	5.1	ug/l	162679	2	8.616	1593130	50.0

Raw Data: **VY022857.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	6.51 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022857.D	1		06/27/25 13:22	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.74	U	0.74	4.70	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.99	U	0.99	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.94	U	0.94	4.70	ug/Kg
67-64-1	Acetone	77.9		4.40	23.4	ug/Kg
75-15-0	Carbon Disulfide	0.99	U	0.99	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	4.70	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.70	ug/Kg
75-09-2	Methylene Chloride	5.90	J	3.30	9.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.81	U	0.81	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.75	U	0.75	4.70	ug/Kg
110-82-7	Cyclohexane	0.74	U	0.74	4.70	ug/Kg
78-93-3	2-Butanone	9.80	J	6.10	23.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.91	U	0.91	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.70	U	0.70	4.70	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.70	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.85	U	0.85	4.70	ug/Kg
71-43-2	Benzene	0.74	U	0.74	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.74	U	0.74	4.70	ug/Kg
79-01-6	Trichloroethene	0.76	U	0.76	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.85	U	0.85	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.73	U	0.73	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	23.4	ug/Kg
108-88-3	Toluene	0.73	U	0.73	4.70	ug/Kg

Raw Data: **VY022857.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	6.51 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022857.D	1		06/27/25 13:22	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.86	U	0.86	4.70	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	23.4	ug/Kg
124-48-1	Dibromochloromethane	0.81	U	0.81	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.82	U	0.82	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.98	U	0.98	4.70	ug/Kg
108-90-7	Chlorobenzene	0.85	U	0.85	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.40	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	4.70	ug/Kg
100-42-5	Styrene	0.67	U	0.67	4.70	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.73	U	0.73	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.8		63 - 155	94%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.5		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		17 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	341000	7.713			
540-36-3	1,4-Difluorobenzene	626000	8.622			
3114-55-4	Chlorobenzene-d5	598000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	255000	13.346			

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	6.51 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022857.D	1		06/27/25 13:22	VY062725

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\VY062725\
Data File : VY022857.D
Acq On : 27 Jun 2025 13:22
Operator : SY/MD
Sample : Q2436-02
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

Quant Time: Jun 27 23:17:19 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

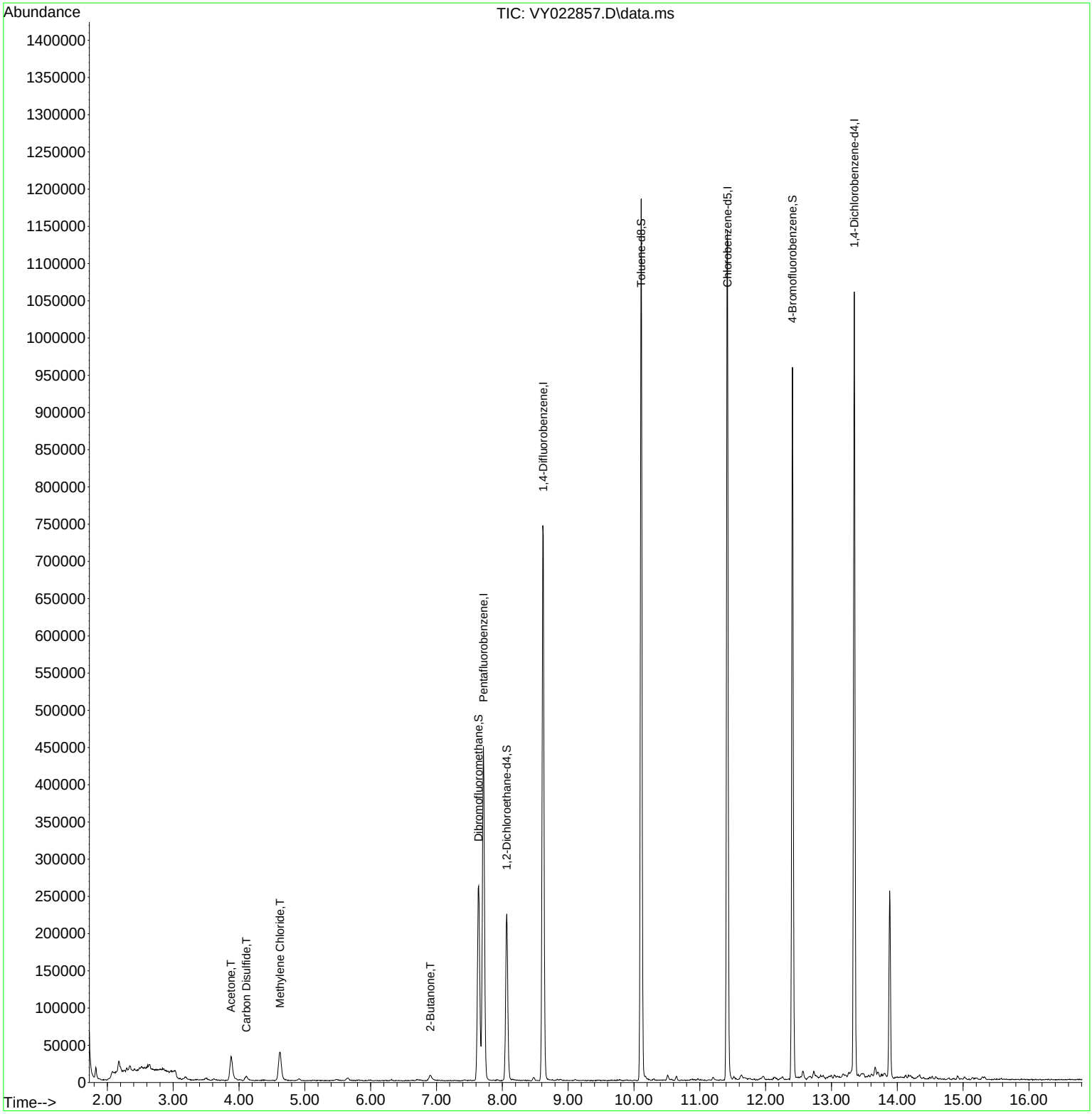
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	340803	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	625770	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	598373	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	255220	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	178070	46.815	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.620%			
35) Dibromofluoromethane	7.640	113	189953	49.914	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.820%			
50) Toluene-d8	10.109	98	748141	49.542	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.080%			
62) 4-Bromofluorobenzene	12.408	95	262926	54.160	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 108.320%			
Target Compounds						Qvalue
16) Acetone	3.879	43	59812	83.196	ug/l	96
17) Carbon Disulfide	4.110	76	11378	1.021	ug/l #	95
20) Methylene Chloride	4.622	84	28478	6.272	ug/l	93
25) 2-Butanone	6.909	43	10979	10.493	ug/l	98

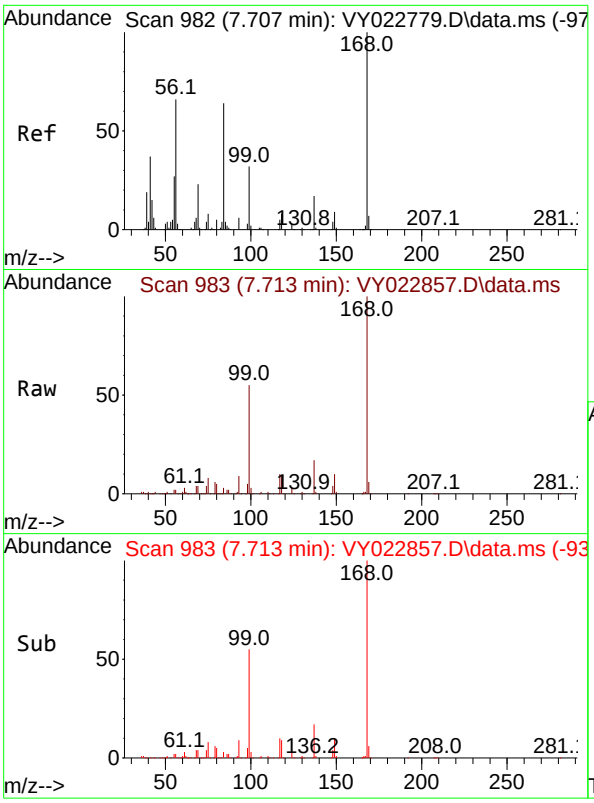
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022857.D
Acq On : 27 Jun 2025 13:22
Operator : SY/MD
Sample : Q2436-02
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

Quant Time: Jun 27 23:17:19 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



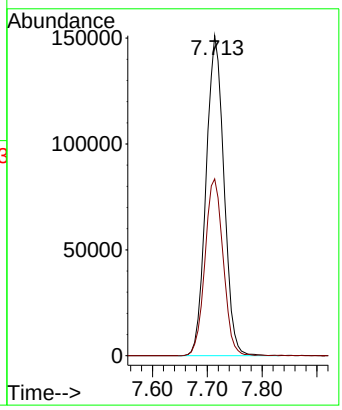


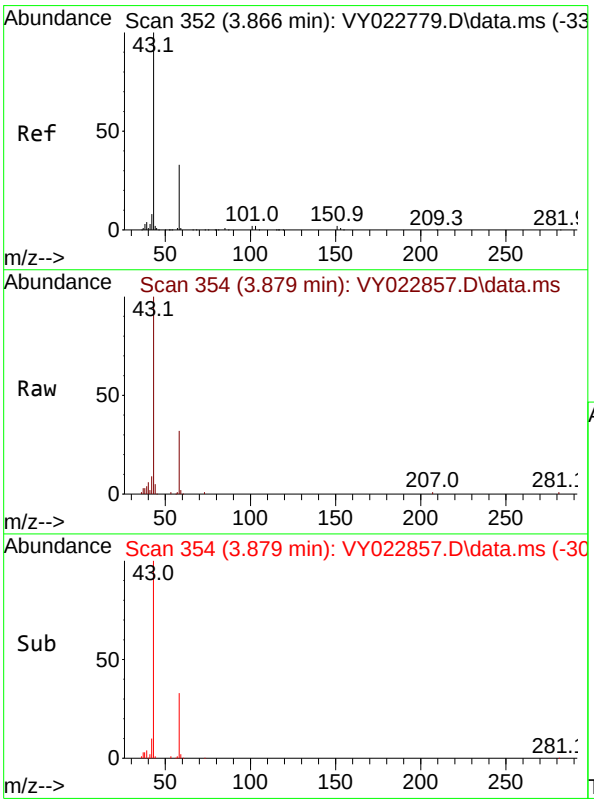
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

Tgt Ion:168 Resp: 340803

Ion	Ratio	Lower	Upper
168	100		
99	55.3	44.3	66.5

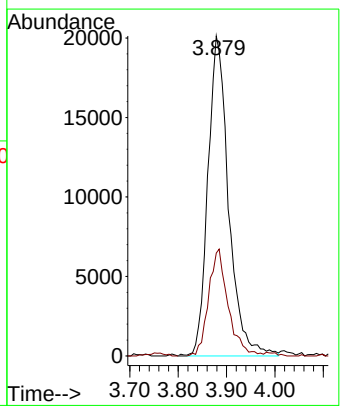


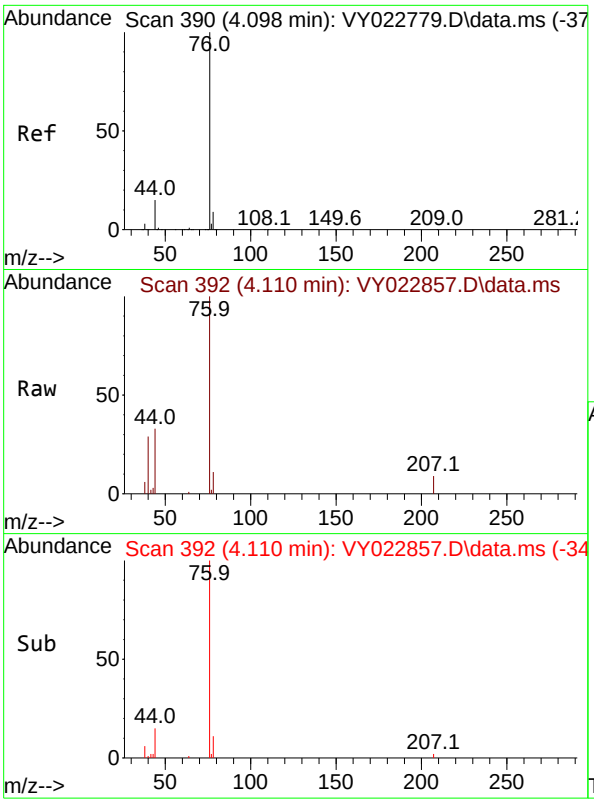


#16
Acetone
Concen: 83.196 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.000 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Tgt Ion: 43 Resp: 59812

Ion	Ratio	Lower	Upper
43	100		
58	32.2	24.0	36.0



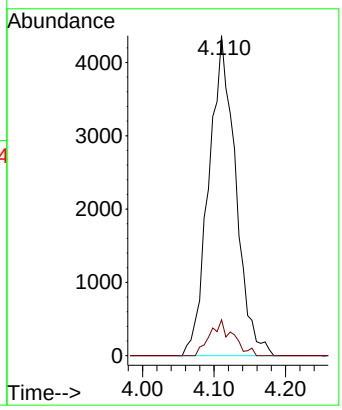


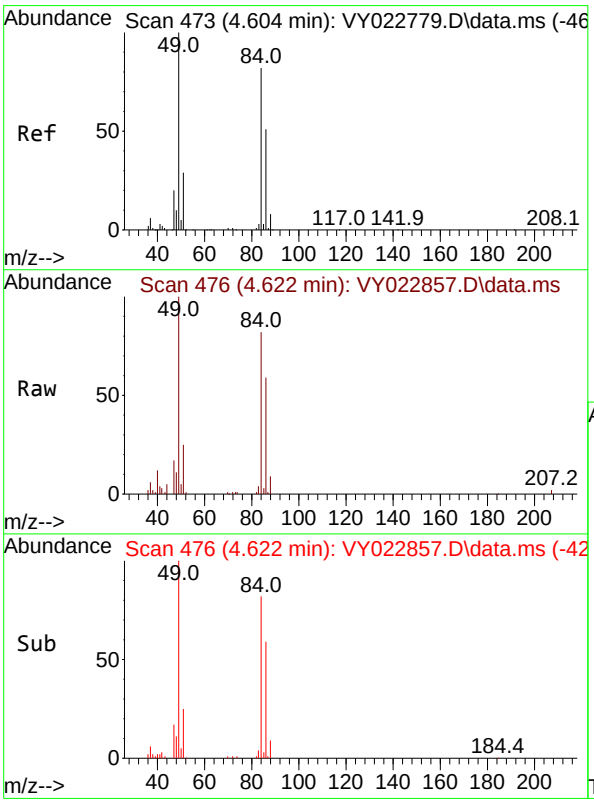
#17
Carbon Disulfide
Concen: 1.021 ug/l
RT: 4.110 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

Tgt Ion: 76 Resp: 11378

Ion	Ratio	Lower	Upper
76	100		
78	11.2	7.4	11.2#

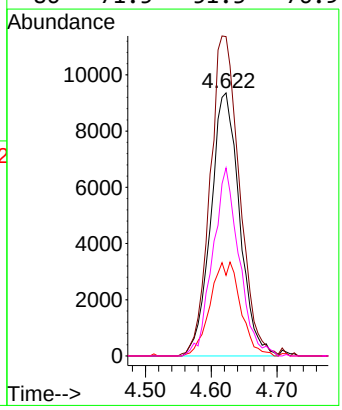


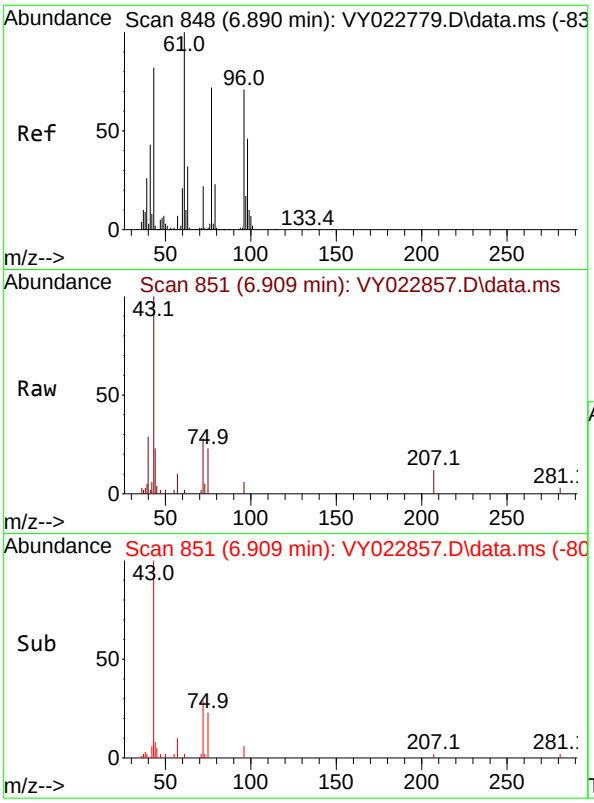


#20
Methylene Chloride
Concen: 6.272 ug/l
RT: 4.622 min Scan# 476
Delta R.T. -0.000 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Tgt Ion: 84 Resp: 28478

Ion	Ratio	Lower	Upper
84	100		
49	121.4	101.9	152.9
51	30.7	29.8	44.8
86	71.5	51.3	76.9



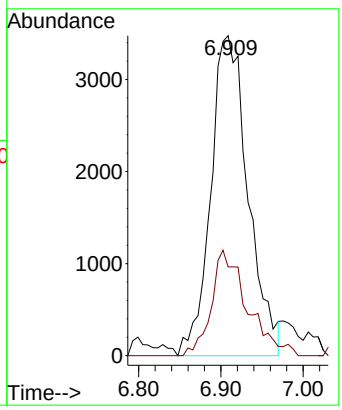


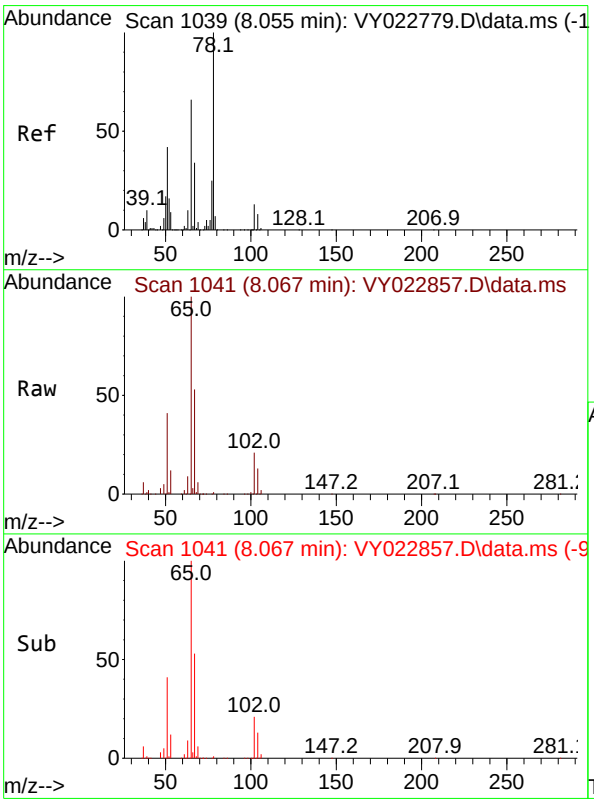
#25
2-Butanone
Concen: 10.493 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

Tgt Ion: 43 Resp: 10979

Ion	Ratio	Lower	Upper
43	100		
72	27.8	22.9	34.3

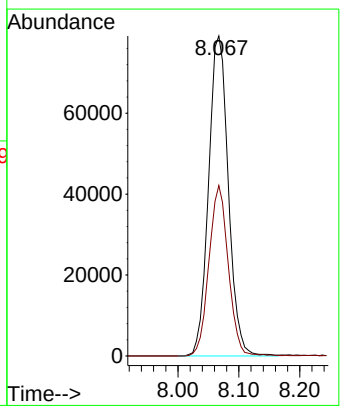


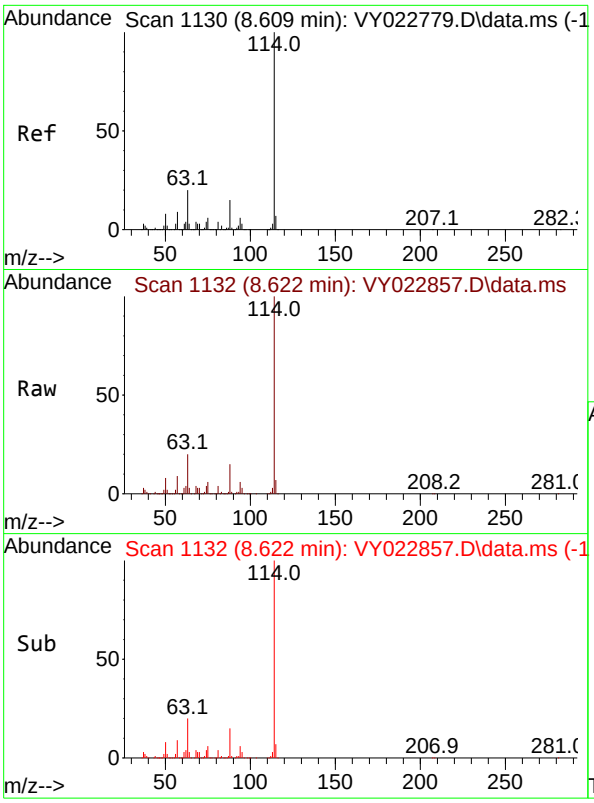


#33
1,2-Dichloroethane-d4
Concen: 46.815 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Tgt Ion: 65 Resp: 178070

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.4



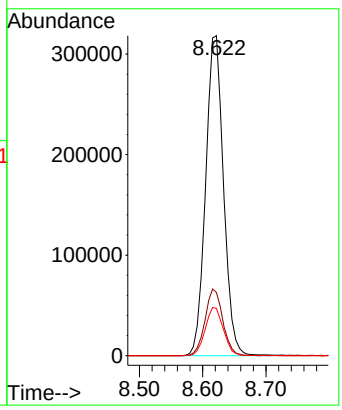


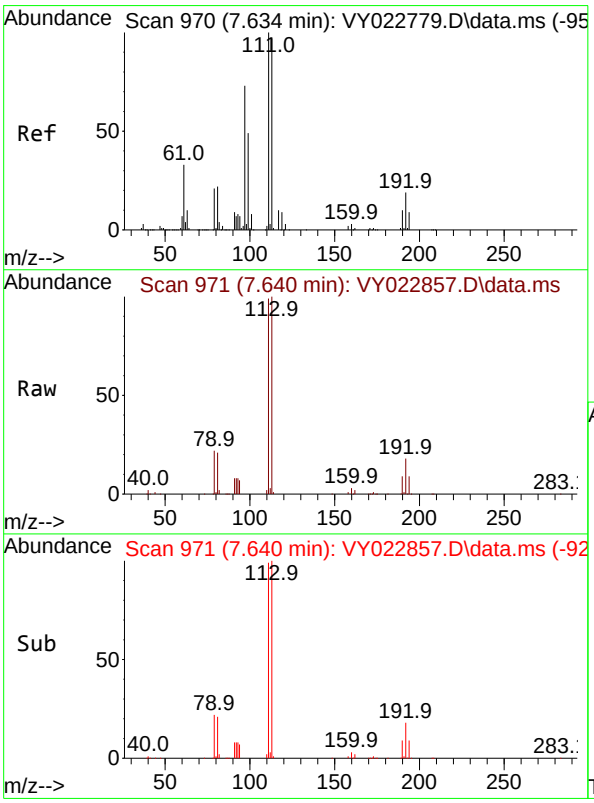
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

Tgt Ion:114 Resp: 625770

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.8
88	14.8	0.0	27.8

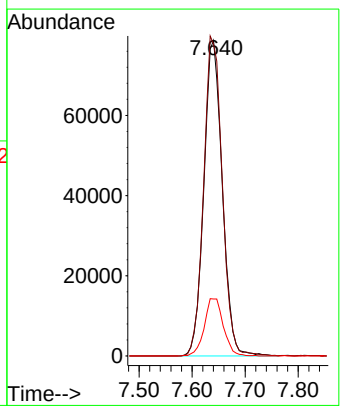


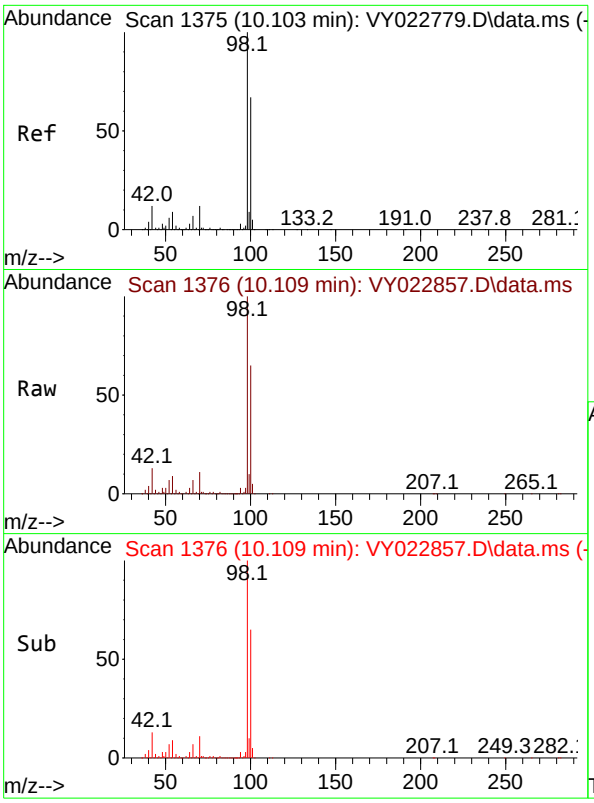


#35
Dibromofluoromethane
Concen: 49.914 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Tgt Ion:113 Resp: 189953

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.1	121.7
192	18.8	14.2	21.2



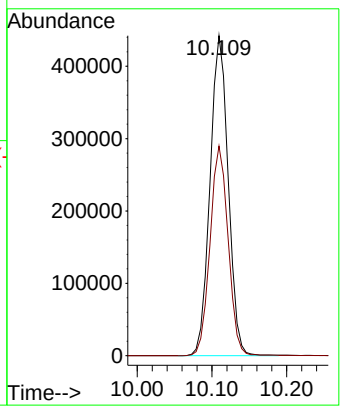


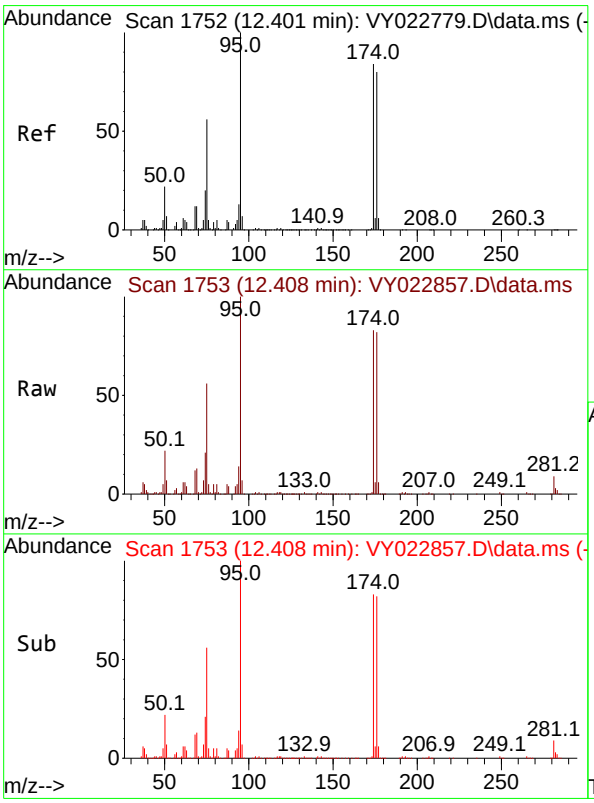
#50
Toluene-d8
Concen: 49.542 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

Tgt Ion: 98 Resp: 748141

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.4	77.0

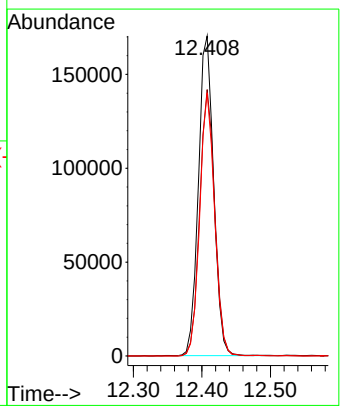


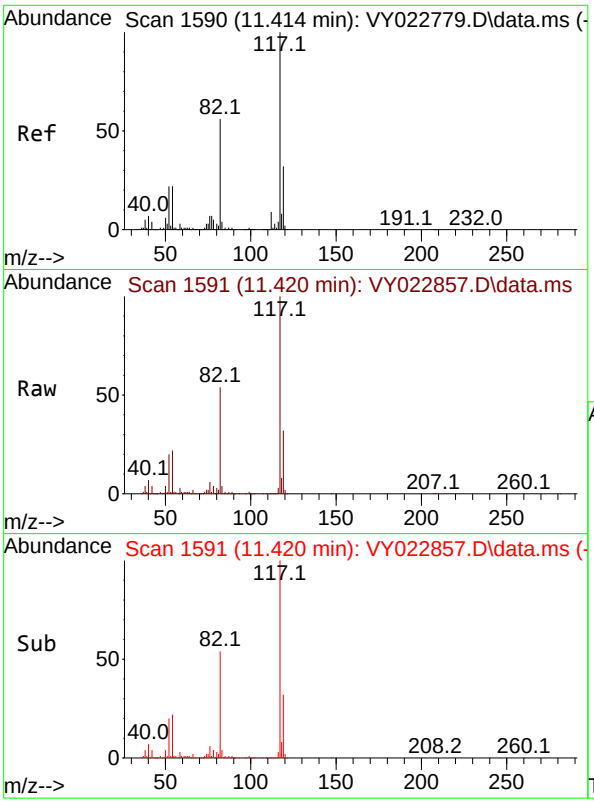


#62
4-Bromofluorobenzene
Concen: 54.160 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Tgt Ion: 95 Resp: 262926

Ion	Ratio	Lower	Upper
95	100		
174	83.4	0.0	170.0
176	80.5	0.0	166.2



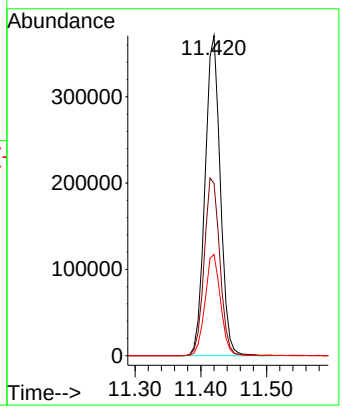


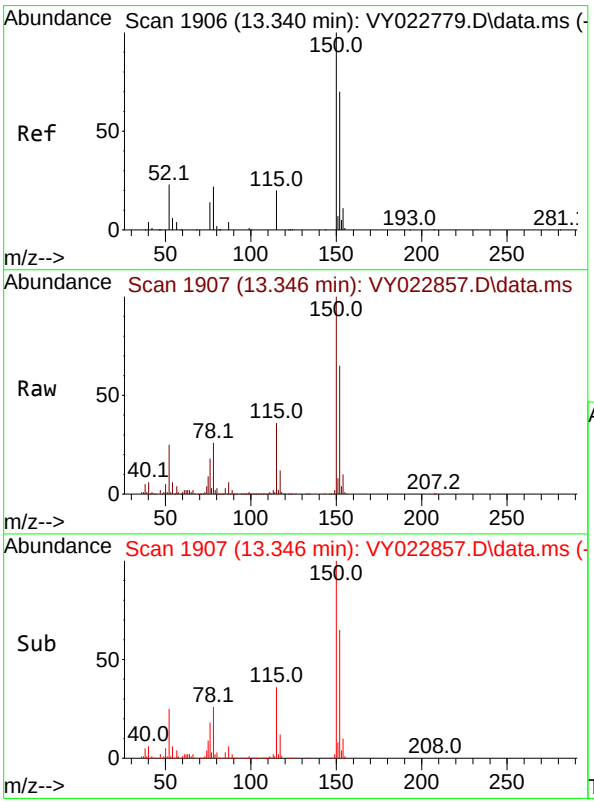
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

Tgt Ion:117 Resp: 598373

Ion	Ratio	Lower	Upper
117	100		
82	53.8	44.6	66.8
119	31.7	25.4	38.0

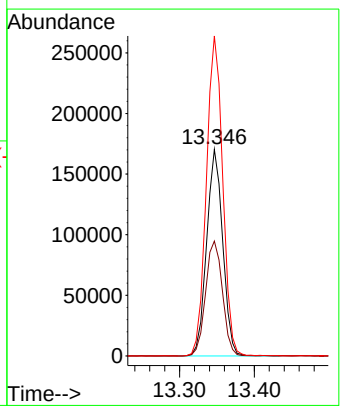




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022857.D
Acq: 27 Jun 2025 13:22

Tgt Ion:152 Resp: 255220

Ion	Ratio	Lower	Upper
152	100		
115	58.0	28.9	86.7
150	157.2	0.0	349.6



Sample Results: **VY022857.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022857.D
Acq On : 27 Jun 2025 13:22
Operator : SY/MD
Sample : Q2436-02
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

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: VY022857.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	13	17	25	rVB3	15561	24090	1.19%	0.209%
2	2.080	44	59	61	rBV9	11874	33591	1.67%	0.292%
3	2.178	70	75	77	rBV2	13246	22017	1.09%	0.191%
4	3.879	344	354	371	rBV	32126	97964	4.86%	0.851%
5	4.622	462	476	489	rBV2	38638	126987	6.30%	1.103%
6	6.903	839	850	862	rBV4	7493	27296	1.35%	0.237%
7	7.640	961	971	977	rBV	260898	640688	31.78%	5.563%
8	7.713	977	983	1002	rVB	448567	1020031	50.60%	8.857%
9	8.067	1029	1041	1054	rBV	224445	511333	25.36%	4.440%
10	8.616	1122	1131	1142	rBV	745888	1477705	73.30%	12.831%
11	10.109	1368	1376	1386	rBV	1184214	2015915	100.00%	17.504%
12	11.420	1583	1591	1603	rBV	1142065	1903618	94.43%	16.529%
13	12.408	1746	1753	1762	rBV2	956898	1545792	76.68%	13.422%
14	12.566	1775	1779	1786	rVB5	10513	20245	1.00%	0.176%
15	13.346	1898	1907	1914	rVB	1052654	1619468	80.33%	14.062%
16	13.664	1954	1959	1963	rBV5	11374	20177	1.00%	0.175%
17	13.883	1989	1995	2005	rVB	252204	409668	20.32%	3.557%

Sum of corrected areas: 11516585

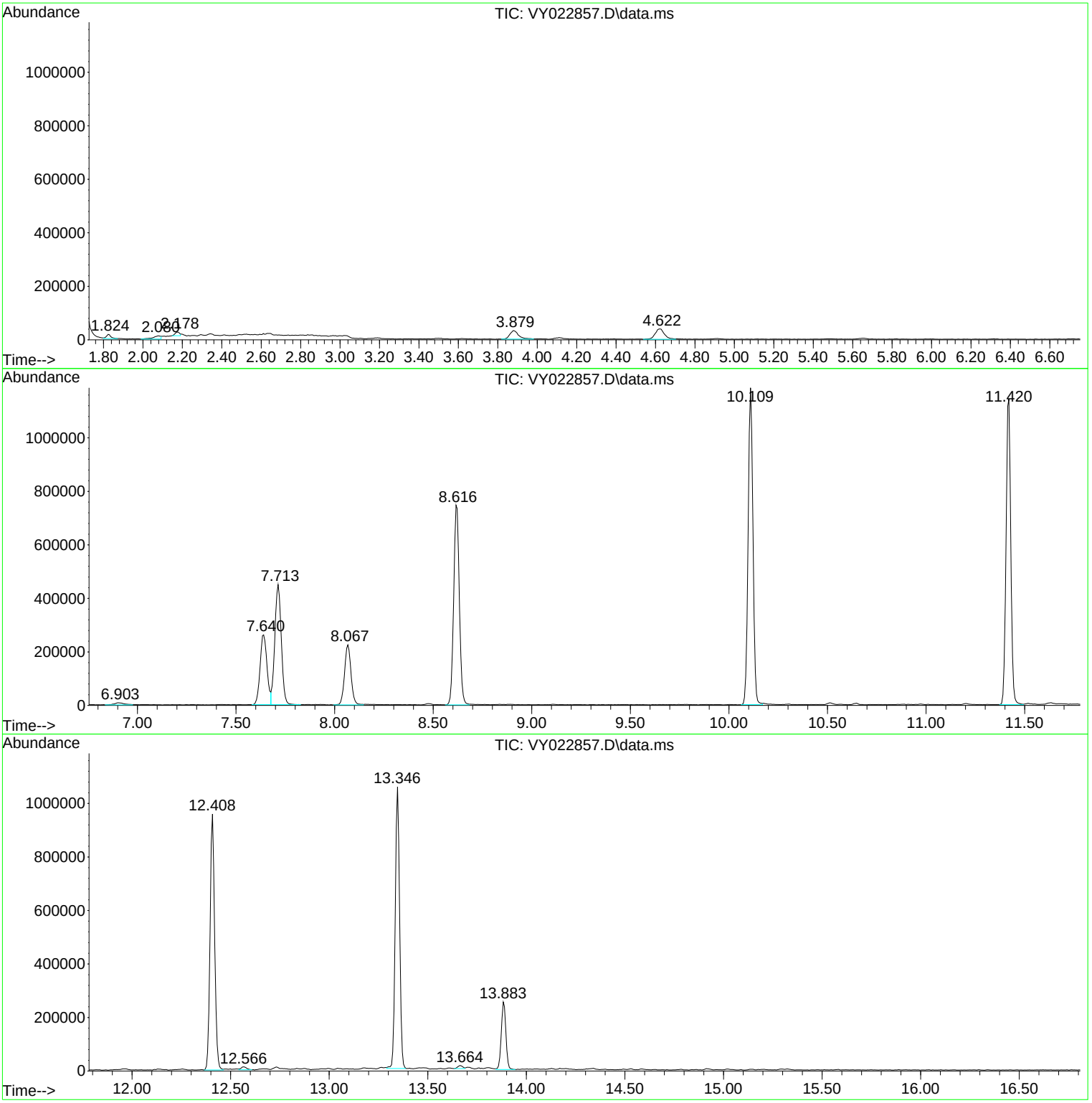
Sample Results: **VY022857.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022857.D
Acq On : 27 Jun 2025 13:22
Operator : SY/MD
Sample : Q2436-02
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

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



Library Search Compound Report

Sample Results: **VY022857.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022857.D
Acq On : 27 Jun 2025 13:22
Operator : SY/MD
Sample : Q2436-02
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

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\VY062725\
Data File : VY022857.D
Acq On : 27 Jun 2025 13:22
Operator : SY/MD
Sample : Q2436-02
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-69

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

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

Raw Data: **VY022877.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.1
Sample Wt/Vol:	6.77 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022877.D	1		06/30/25 13:32	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.99	U	0.99	4.30	ug/Kg
74-87-3	Chloromethane	0.99	U	0.99	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.69	U	0.69	4.30	ug/Kg
74-83-9	Bromomethane	0.93	U	0.93	4.30	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.92	U	0.92	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.87	U	0.87	4.30	ug/Kg
67-64-1	Acetone	33.3		4.10	21.7	ug/Kg
75-15-0	Carbon Disulfide	0.99	J	0.92	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	4.90	J	3.10	8.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.75	U	0.75	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	4.30	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	21.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.84	U	0.84	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.65	U	0.65	4.30	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.30	ug/Kg
67-66-3	Chloroform	0.73	U	0.73	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.81	U	0.81	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.79	U	0.79	4.30	ug/Kg
71-43-2	Benzene	0.69	U	0.69	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.79	U	0.79	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.68	U	0.68	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.7	ug/Kg
108-88-3	Toluene	0.68	U	0.68	4.30	ug/Kg

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

Report of Analysis

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Project:	South River WM Replacement	Date Received:	06/26/25
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Analytical Method:	8260D	% Solid:	85.1
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Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022877.D	1		06/30/25 13:32	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.7	ug/Kg
124-48-1	Dibromochloromethane	0.76	U	0.76	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.91	U	0.91	4.30	ug/Kg
108-90-7	Chlorobenzene	0.79	U	0.79	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.70	ug/Kg
95-47-6	o-Xylene	0.71	U	0.71	4.30	ug/Kg
100-42-5	Styrene	0.62	U	0.62	4.30	ug/Kg
75-25-2	Bromoform	0.75	U	0.75	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.68	U	0.68	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.80	U	2.80	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.5		63 - 155	91%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		17 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	373000	7.707			
540-36-3	1,4-Difluorobenzene	691000	8.61			
3114-55-4	Chlorobenzene-d5	658000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	284000	13.34			

Raw Data: **VY022877.D**

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Report of Analysis

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Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.1
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Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022877.D	1		06/30/25 13:32	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 : VY022877.D
Acq On : 30 Jun 2025 13:32
Operator : SY/MD
Sample : Q2436-03
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

Quant Time: Jul 01 03:37:26 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

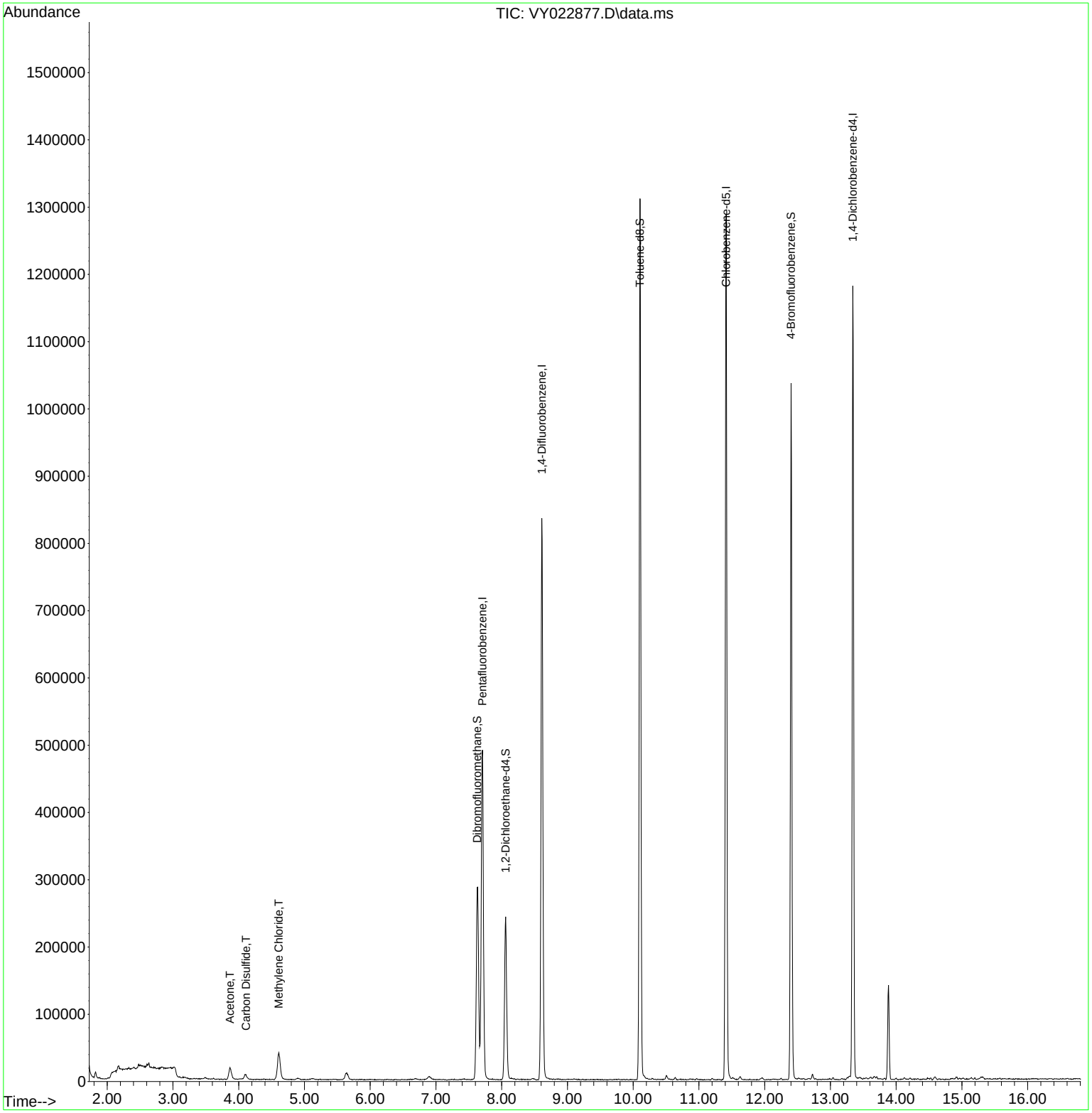
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	372972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	690751	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	657778	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	284435	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	189510	45.525	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 91.060%			
35) Dibromofluoromethane	7.628	113	207873	49.484	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.960%			
50) Toluene-d8	10.103	98	832363	49.934	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.860%			
62) 4-Bromofluorobenzene	12.402	95	290519	54.215	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 108.420%			
Target Compounds						Qvalue
16) Acetone	3.867	43	30174	38.351	ug/l #	77
17) Carbon Disulfide	4.110	76	13895	1.139	ug/l	98
20) Methylene Chloride	4.610	84	27992	5.634	ug/l	92

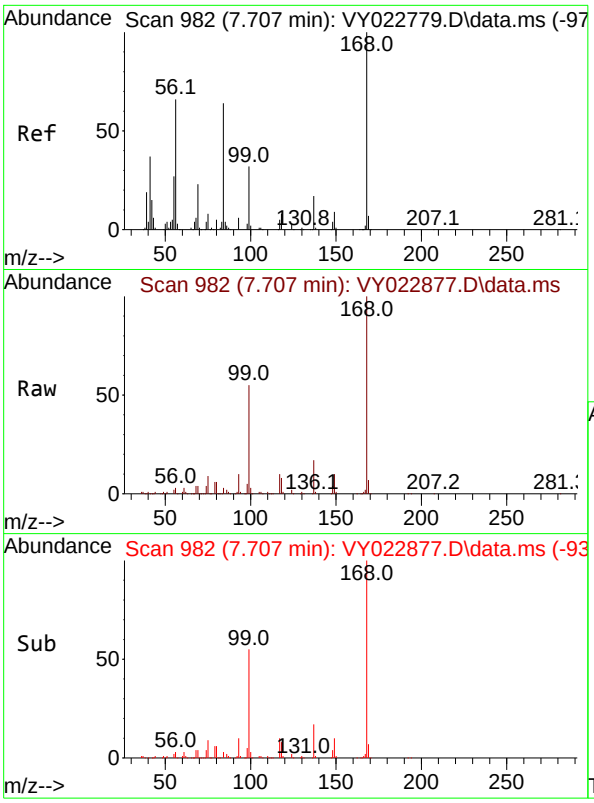
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022877.D
Acq On : 30 Jun 2025 13:32
Operator : SY/MD
Sample : Q2436-03
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

Quant Time: Jul 01 03:37:26 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



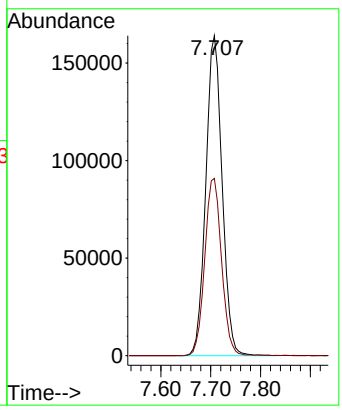


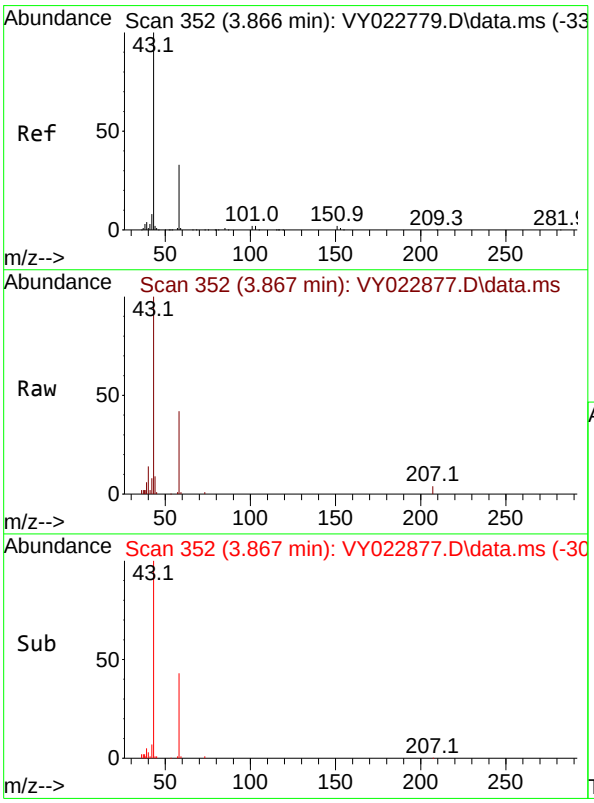
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022877.D
Acq: 30 Jun 2025 13:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

Tgt Ion:168 Resp: 372972

Ion	Ratio	Lower	Upper
168	100		
99	55.4	44.3	66.5

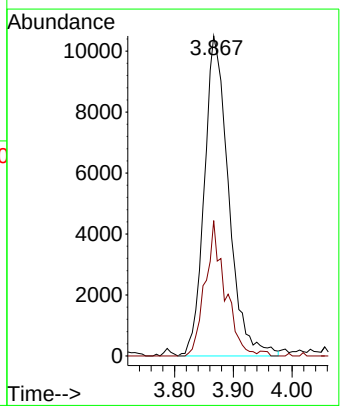


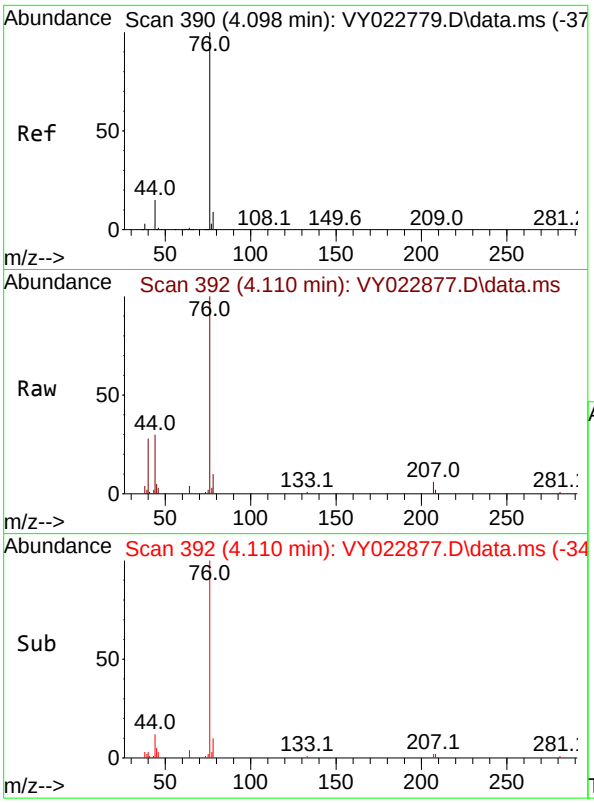


#16
Acetone
Concen: 38.351 ug/l
RT: 3.867 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022877.D
Acq: 30 Jun 2025 13:32

Tgt Ion: 43 Resp: 30174

Ion	Ratio	Lower	Upper
43	100		
58	42.3	24.0	36.0#



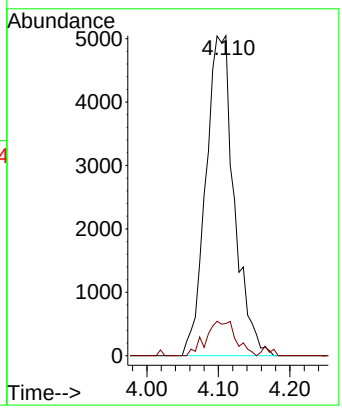


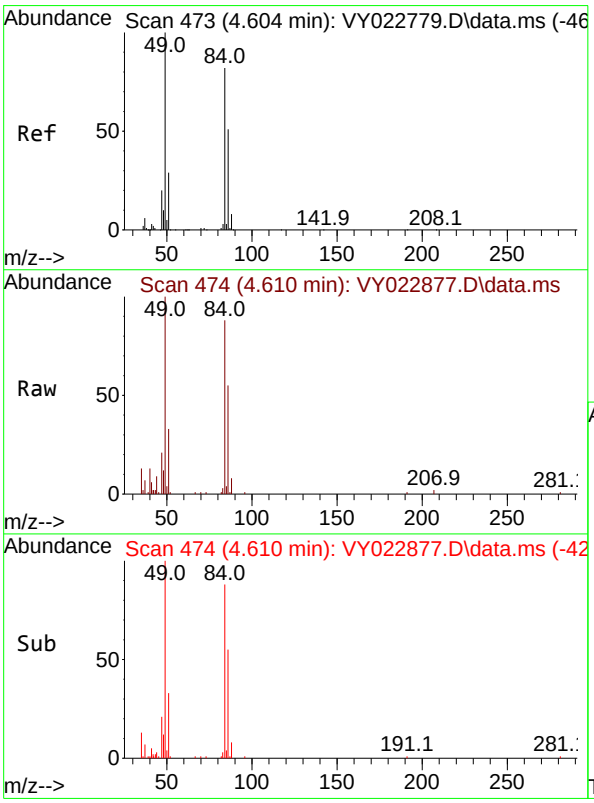
#17
Carbon Disulfide
Concen: 1.139 ug/l
RT: 4.110 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022877.D
Acq: 30 Jun 2025 13:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

Tgt Ion: 76 Resp: 13895

Ion	Ratio	Lower	Upper
76	100		
78	10.0	7.4	11.2

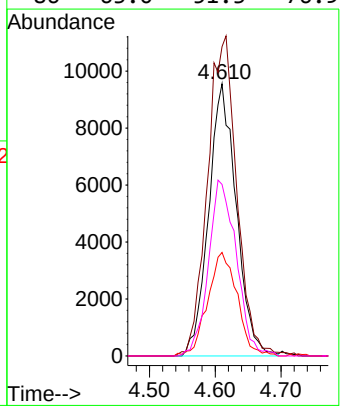


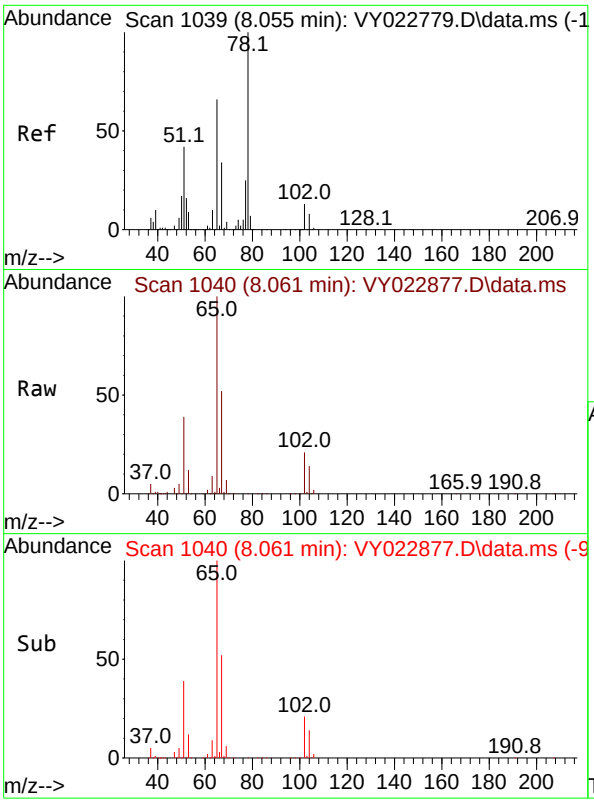


#20
Methylene Chloride
Concen: 5.634 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY022877.D
Acq: 30 Jun 2025 13:32

Tgt Ion: 84 Resp: 27992

Ion	Ratio	Lower	Upper
84	100		
49	112.9	101.9	152.9
51	38.0	29.8	44.8
86	63.0	51.3	76.9



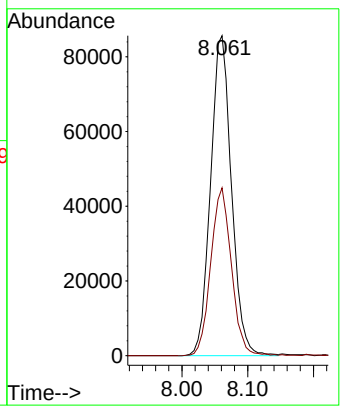


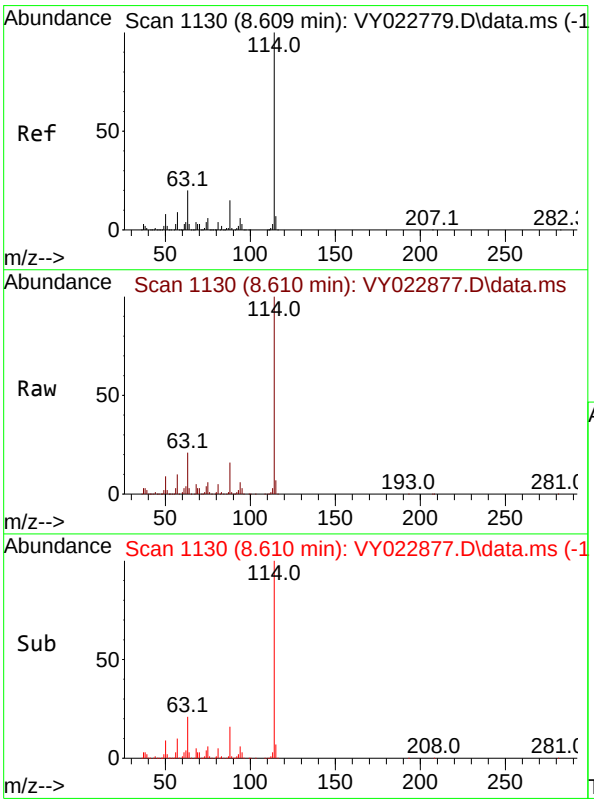
#33
1,2-Dichloroethane-d4
Concen: 45.525 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022877.D
Acq: 30 Jun 2025 13:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

Tgt Ion: 65 Resp: 189510

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	103.4

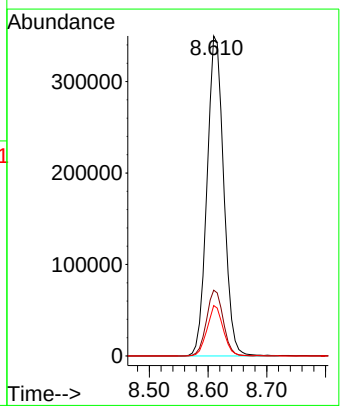


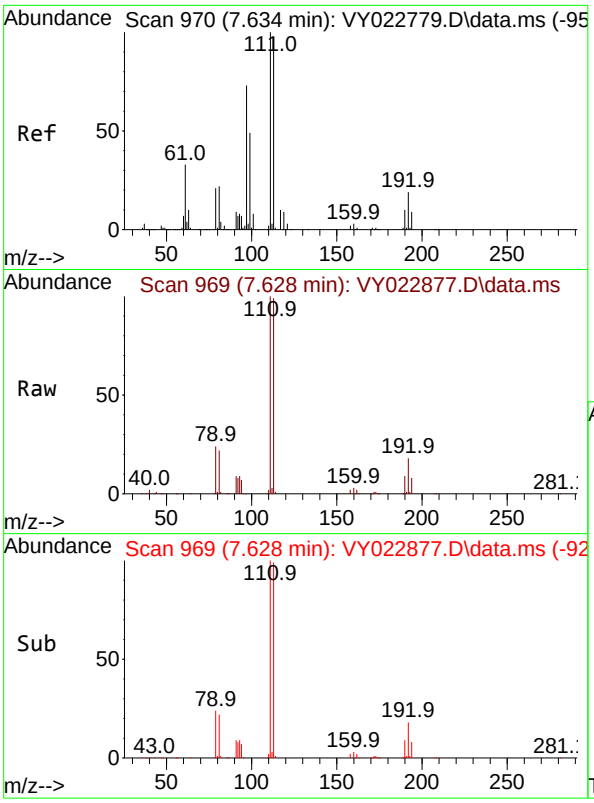


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022877.D
Acq: 30 Jun 2025 13:32

Tgt Ion:114 Resp: 690751

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.8
88	15.8	0.0	27.8



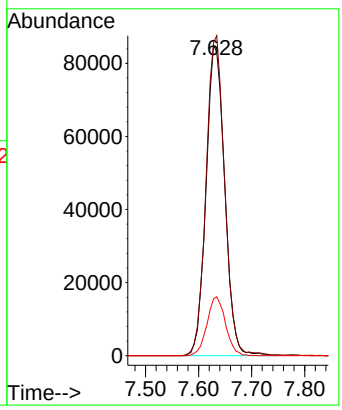


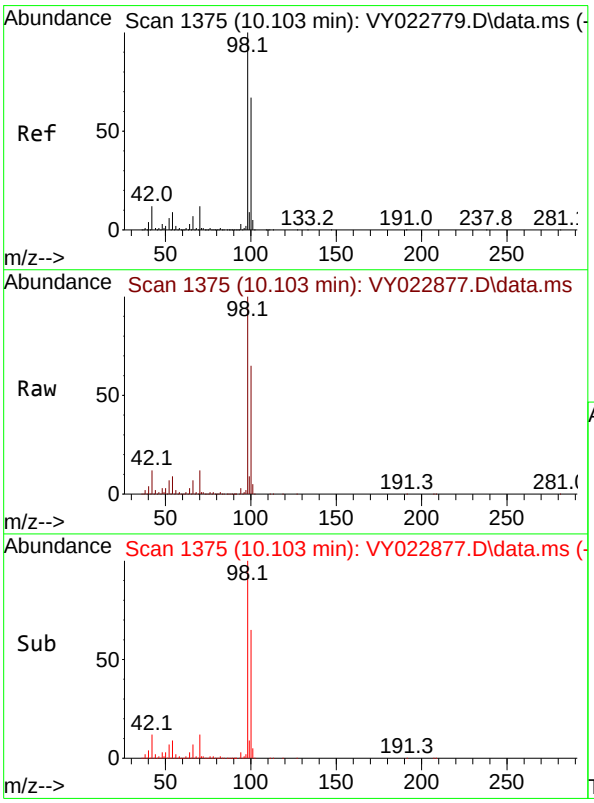
#35
Dibromofluoromethane
Concen: 49.484 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY022877.D
Acq: 30 Jun 2025 13:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

Tgt Ion:113 Resp: 207873

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.1	121.7
192	18.8	14.2	21.2

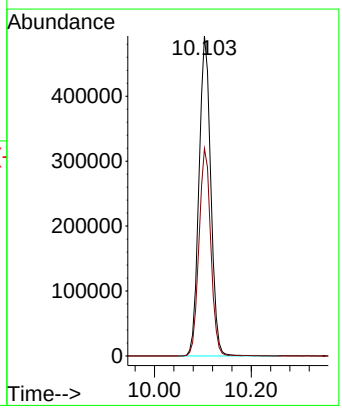


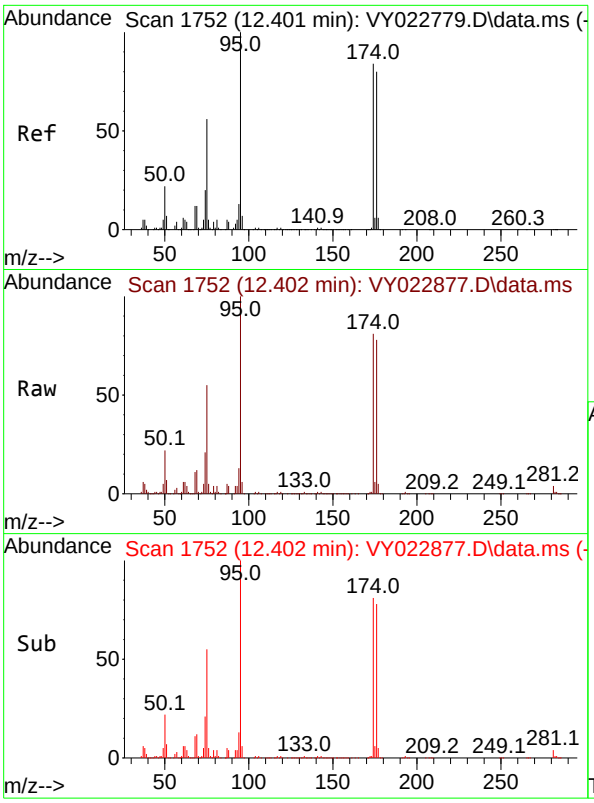


#50
Toluene-d8
Concen: 49.934 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022877.D
Acq: 30 Jun 2025 13:32

Tgt Ion: 98 Resp: 832363

Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.4	77.0



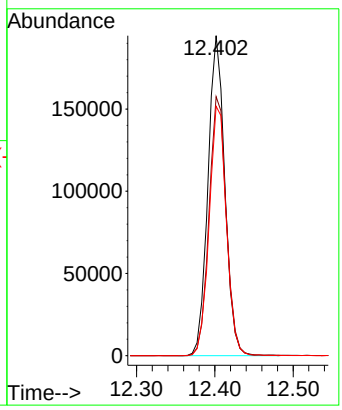


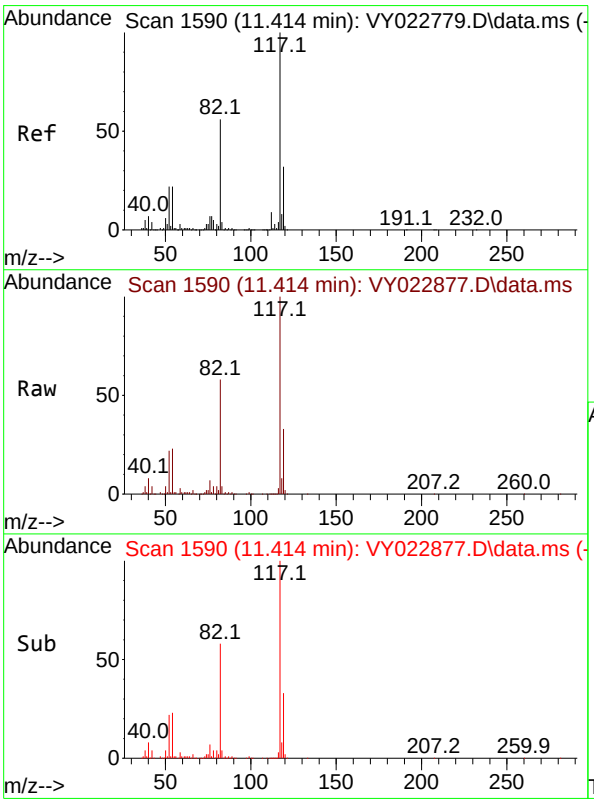
#62
4-Bromofluorobenzene
Concen: 54.215 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022877.D
Acq: 30 Jun 2025 13:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

Tgt Ion: 95 Resp: 290519

Ion	Ratio	Lower	Upper
95	100		
174	83.1	0.0	170.0
176	79.7	0.0	166.2

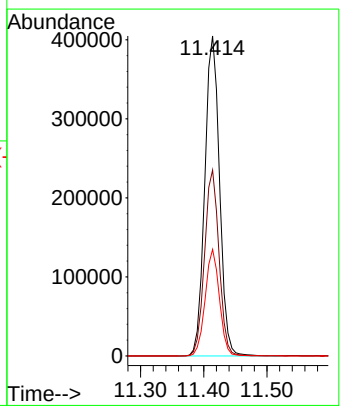


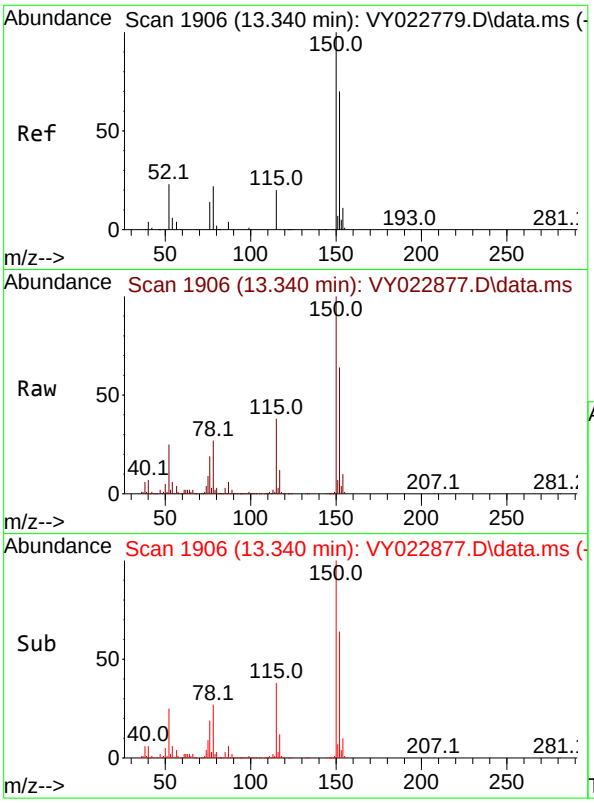


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022877.D
Acq: 30 Jun 2025 13:32

Tgt Ion:117 Resp: 657778

Ion	Ratio	Lower	Upper
117	100		
82	58.1	44.6	66.8
119	33.3	25.4	38.0



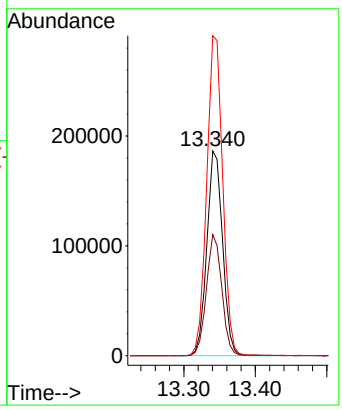


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022877.D
Acq: 30 Jun 2025 13:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

Tgt Ion:152 Resp: 284435

Ion	Ratio	Lower	Upper
152	100		
115	58.0	28.9	86.7
150	158.6	0.0	349.6



Sample Results: **VY022877.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022877.D
Acq On : 30 Jun 2025 13:32
Operator : SY/MD
Sample : Q2436-03
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

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: VY022877.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	3.867	342	352	363	rBV	17991	52157	2.33%	0.427%
2	4.610	463	474	490	rBV3	40312	126838	5.67%	1.039%
3	5.641	632	643	654	rBV3	10139	32926	1.47%	0.270%
4	7.634	960	970	975	rBV	285538	685362	30.66%	5.615%
5	7.707	975	982	998	rVB	489359	1137297	50.87%	9.318%
6	8.061	1030	1040	1053	rBV	242379	539550	24.14%	4.421%
7	8.610	1121	1130	1146	rBV	835045	1646221	73.64%	13.488%
8	10.103	1367	1375	1392	rBV	1310138	2235508	100.00%	18.316%
9	11.414	1581	1590	1604	rBV	1286409	2095949	93.76%	17.172%
10	12.402	1743	1752	1763	rBV	1034996	1621277	72.52%	13.283%
11	13.340	1900	1906	1917	rVB	1178495	1805574	80.77%	14.793%
12	13.883	1988	1995	2002	rBV2	140478	226744	10.14%	1.858%

Sum of corrected areas: 12205403

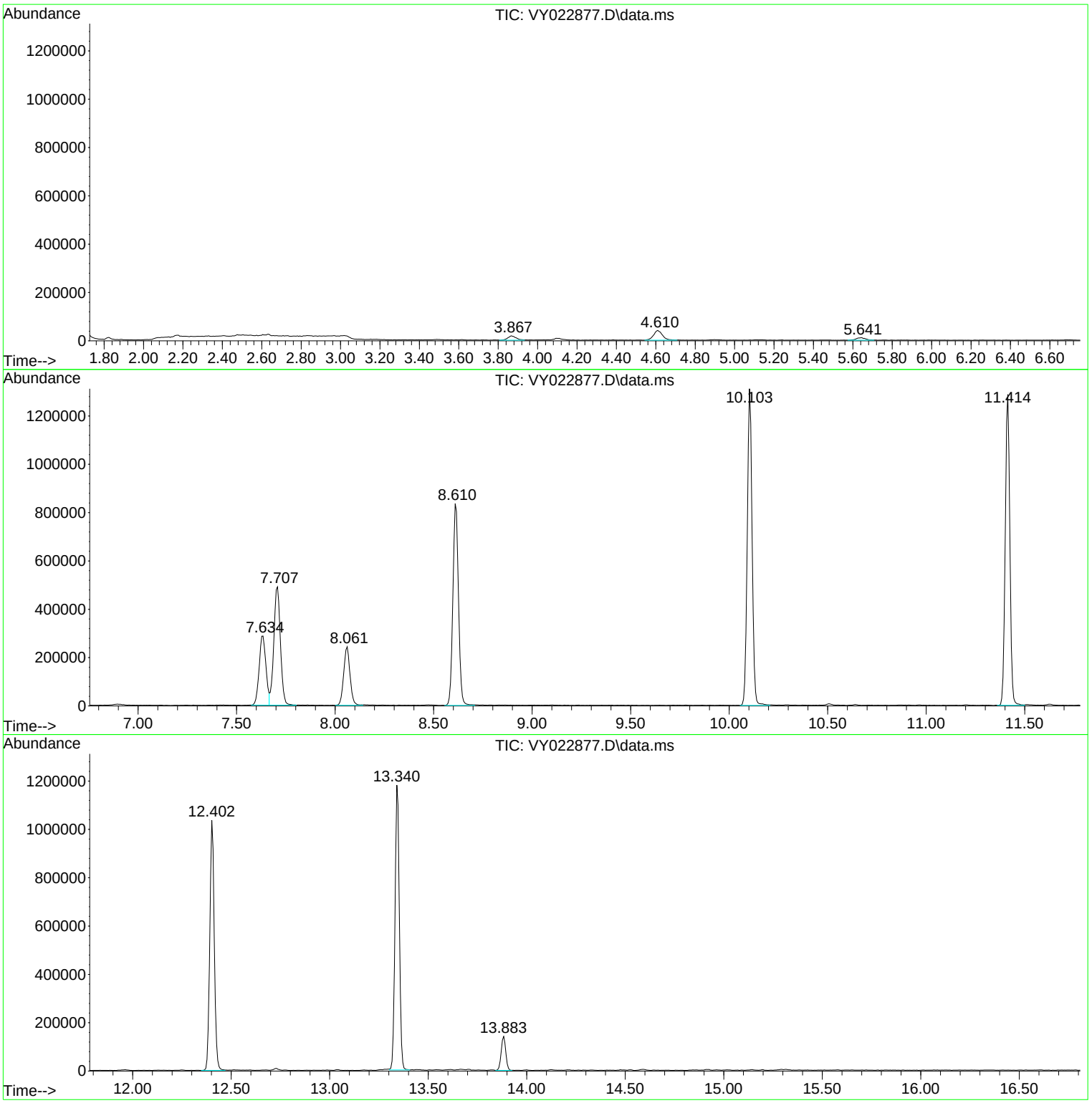
Sample Results: **VY022877.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022877.D
Acq On : 30 Jun 2025 13:32
Operator : SY/MD
Sample : Q2436-03
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

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



Library Search Compound Report

Sample Results: **VY022877.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022877.D
Acq On : 30 Jun 2025 13:32
Operator : SY/MD
Sample : Q2436-03
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

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
****

Sample Results: **VY022877.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022877.D
Acq On : 30 Jun 2025 13:32
Operator : SY/MD
Sample : Q2436-03
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-85

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

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

Raw Data: **VY022878.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.7
Sample Wt/Vol:	6.03 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022878.D	1		06/30/25 14:28	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.74	U	0.74	4.70	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.99	U	0.99	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.93	U	0.93	4.70	ug/Kg
67-64-1	Acetone	4.40	U	4.40	23.4	ug/Kg
75-15-0	Carbon Disulfide	0.99	U	0.99	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	4.70	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.70	ug/Kg
75-09-2	Methylene Chloride	6.10	J	3.30	9.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.80	U	0.80	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.75	U	0.75	4.70	ug/Kg
110-82-7	Cyclohexane	0.74	U	0.74	4.70	ug/Kg
78-93-3	2-Butanone	6.10	U	6.10	23.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.91	U	0.91	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.70	U	0.70	4.70	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.70	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.85	U	0.85	4.70	ug/Kg
71-43-2	Benzene	0.74	U	0.74	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.74	U	0.74	4.70	ug/Kg
79-01-6	Trichloroethene	0.76	U	0.76	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.85	U	0.85	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.73	U	0.73	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	23.4	ug/Kg
108-88-3	Toluene	0.73	U	0.73	4.70	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.7
Sample Wt/Vol:	6.03 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022878.D	1		06/30/25 14:28	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.86	U	0.86	4.70	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	23.4	ug/Kg
124-48-1	Dibromochloromethane	0.81	U	0.81	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.82	U	0.82	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.98	U	0.98	4.70	ug/Kg
108-90-7	Chlorobenzene	0.85	U	0.85	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.30	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	4.70	ug/Kg
100-42-5	Styrene	0.66	U	0.66	4.70	ug/Kg
75-25-2	Bromoform	0.80	U	0.80	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.73	U	0.73	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.2		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	50.2		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.9		17 - 146	116%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	346000	7.707			
540-36-3	1,4-Difluorobenzene	640000	8.616			
3114-55-4	Chlorobenzene-d5	634000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	290000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022878.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.7
Sample Wt/Vol:	6.03 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022878.D	1		06/30/25 14:28	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
60-29-7	Diethyl Ether	1.80	J		3.45	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\VY063025\
Data File : VY022878.D
Acq On : 30 Jun 2025 14:28
Operator : SY/MD
Sample : Q2436-04
Misc : 6.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-86

Quant Time: Jul 01 03:37:50 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

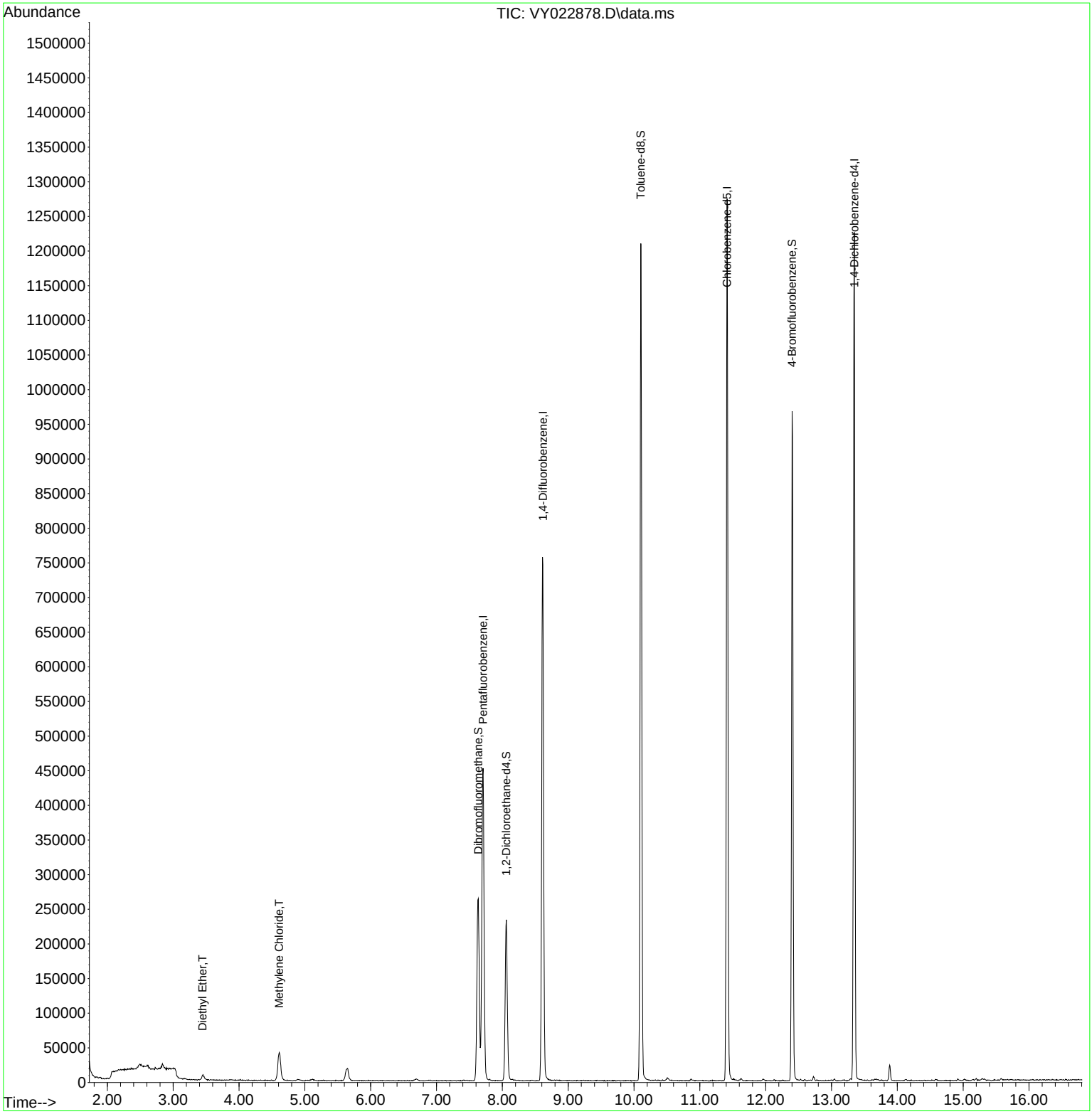
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	346216	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	639767	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	633746	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	290240	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	186161	48.177	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.360%			
35) Dibromofluoromethane	7.634	113	193368	49.699	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.400%			
50) Toluene-d8	10.103	98	774867	50.189	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.380%			
62) 4-Bromofluorobenzene	12.402	95	287178	57.862	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 115.720%			
Target Compounds						Qvalue
8) Diethyl Ether	3.446	74	3708	1.920	ug/l	79
20) Methylene Chloride	4.610	84	30216	6.551	ug/l	94

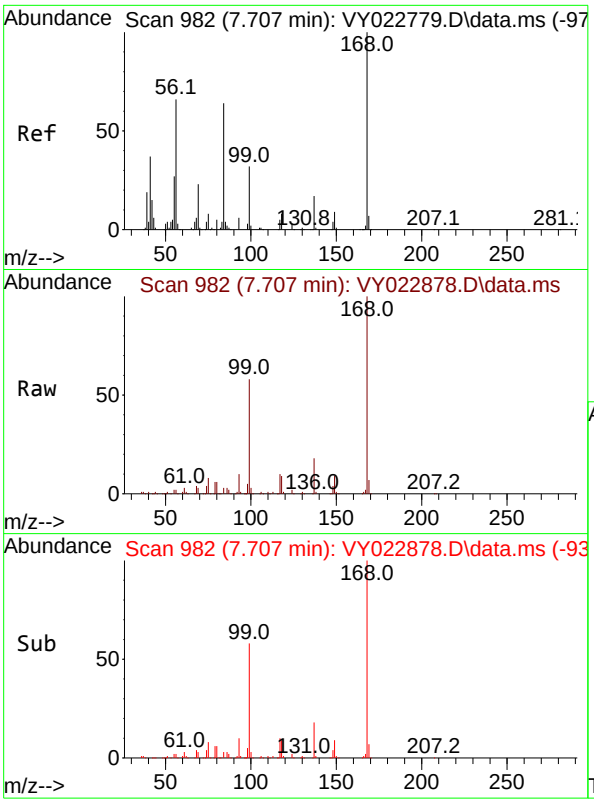
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022878.D
Acq On : 30 Jun 2025 14:28
Operator : SY/MD
Sample : Q2436-04
Misc : 6.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-86

Quant Time: Jul 01 03:37:50 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



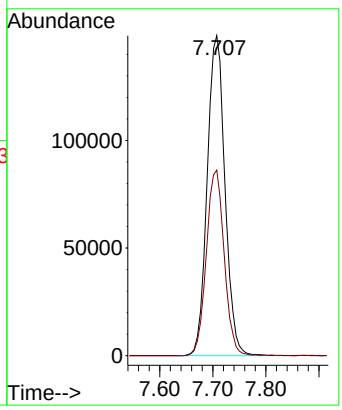


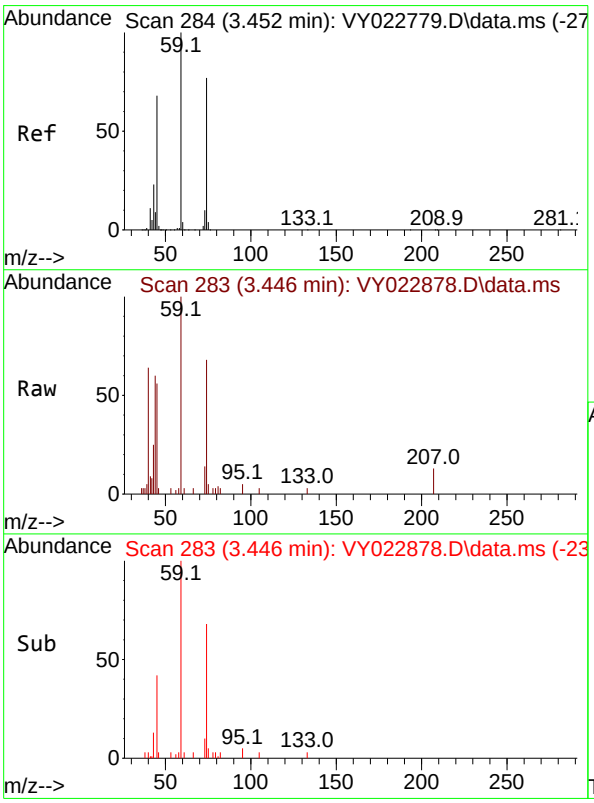
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022878.D
Acq: 30 Jun 2025 14:28

Instrument :
MSVOA_Y
ClientSampleId :
TP-86

Tgt Ion:168 Resp: 346216

Ion	Ratio	Lower	Upper
168	100		
99	58.0	44.3	66.5

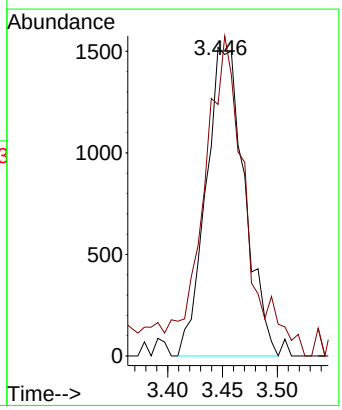


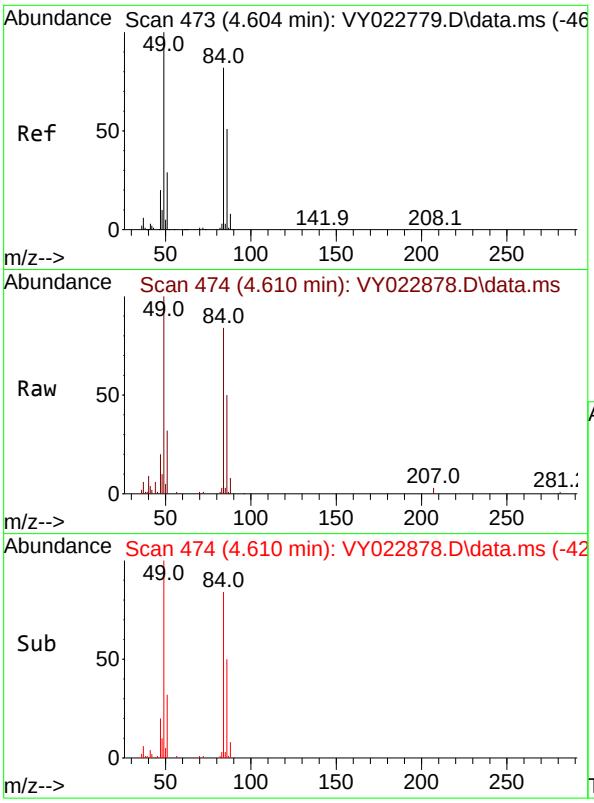


#8
Diethyl Ether
Concen: 1.920 ug/l
RT: 3.446 min Scan# 283
Delta R.T. -0.018 min
Lab File: VY022878.D
Acq: 30 Jun 2025 14:28

Tgt Ion: 74 Resp: 3708

Ion	Ratio	Lower	Upper
74	100		
45	112.0	45.9	137.6



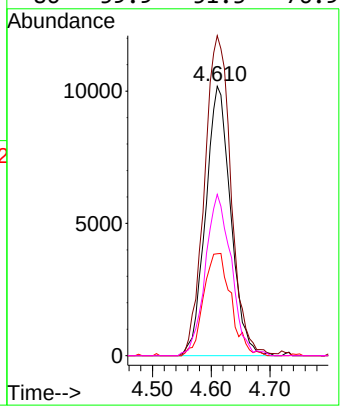


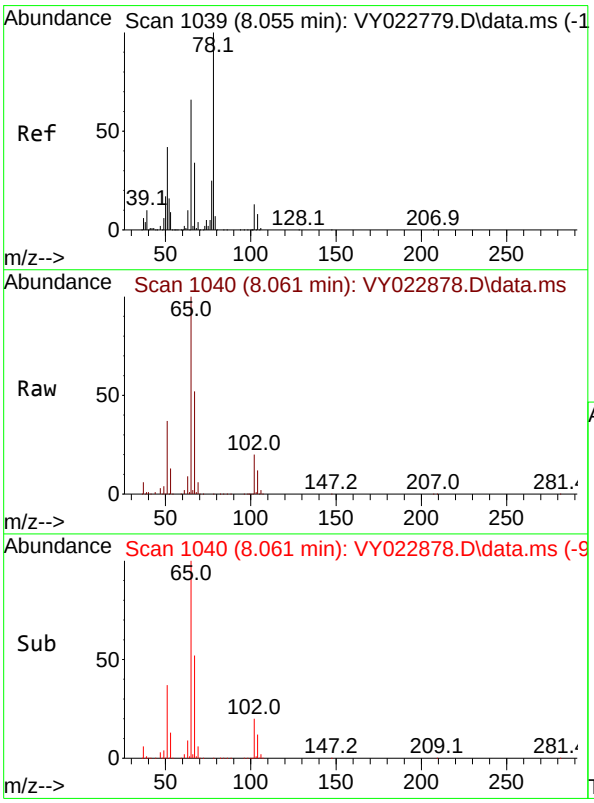
#20
Methylene Chloride
Concen: 6.551 ug/l
RT: 4.610 min Scan# 4
Delta R.T. -0.012 min
Lab File: VY022878.D
Acq: 30 Jun 2025 14:28

Instrument :
MSVOA_Y
ClientSampleId :
TP-86

Tgt Ion: 84 Resp: 30216

Ion	Ratio	Lower	Upper
84	100		
49	118.8	101.9	152.9
51	37.8	29.8	44.8
86	59.9	51.3	76.9

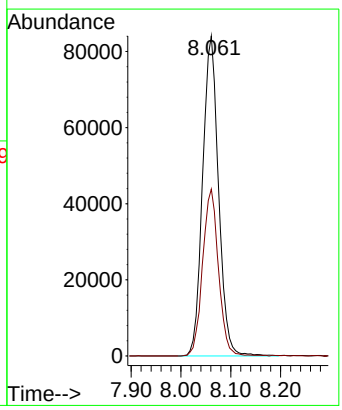


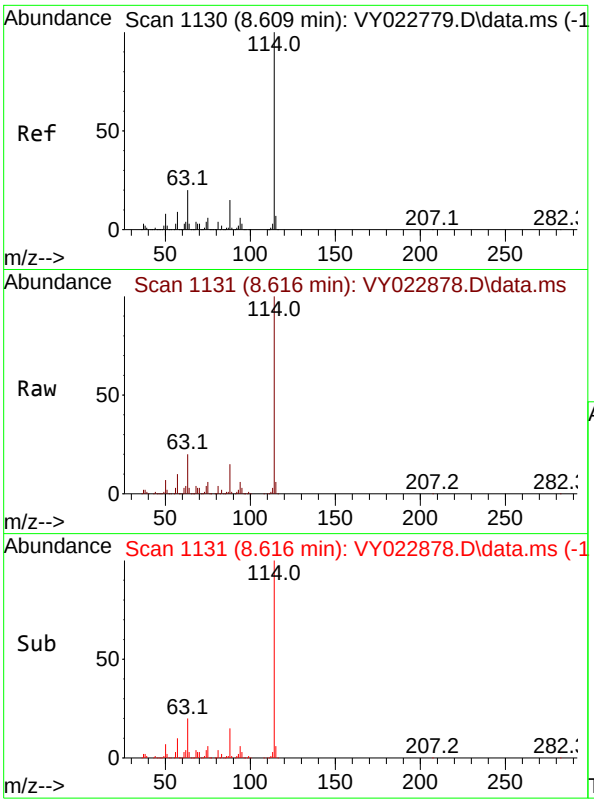


#33
1,2-Dichloroethane-d4
Concen: 48.177 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022878.D
Acq: 30 Jun 2025 14:28

Tgt Ion: 65 Resp: 186161

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	103.4



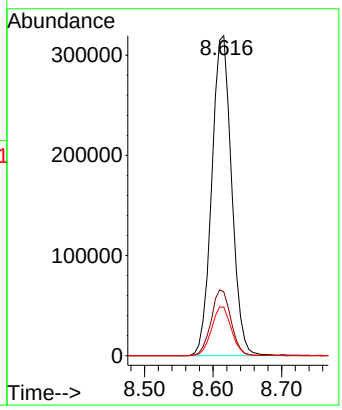


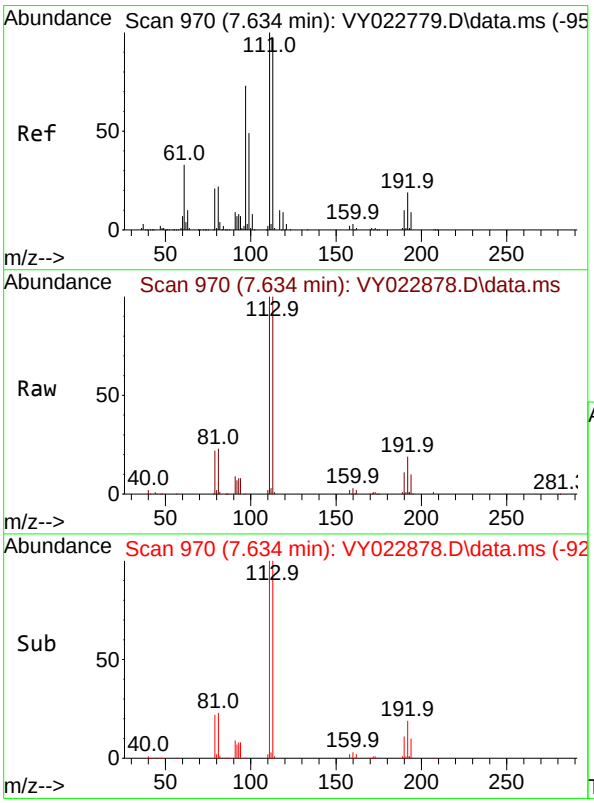
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022878.D
Acq: 30 Jun 2025 14:28

Instrument :
MSVOA_Y
ClientSampleId :
TP-86

Tgt Ion:114 Resp: 639767

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.8
88	15.1	0.0	27.8

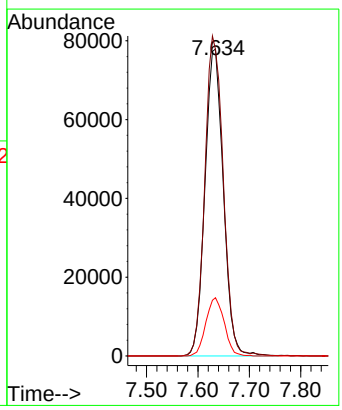


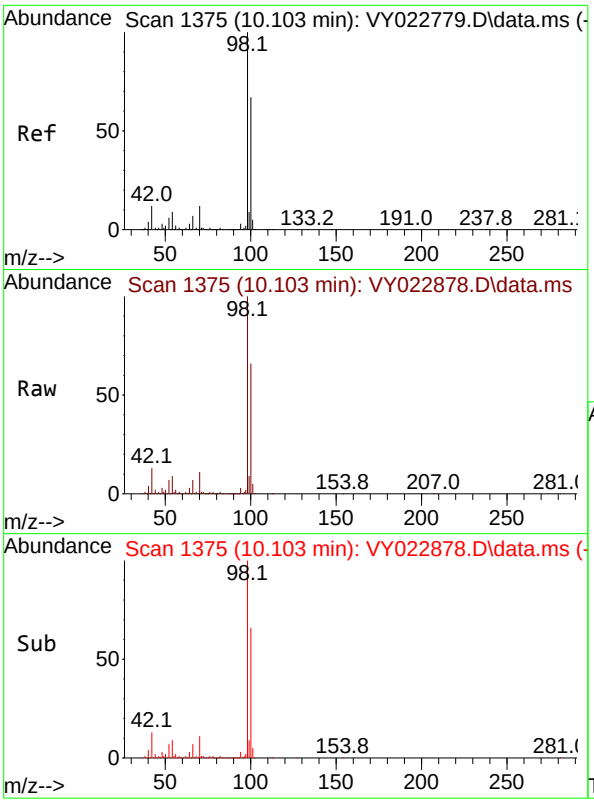


#35
Dibromofluoromethane
Concen: 49.699 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022878.D
Acq: 30 Jun 2025 14:28

Tgt Ion:113 Resp: 193368

Ion	Ratio	Lower	Upper
113	100		
111	104.8	81.1	121.7
192	18.9	14.2	21.2



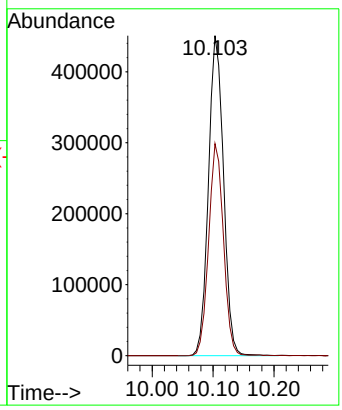


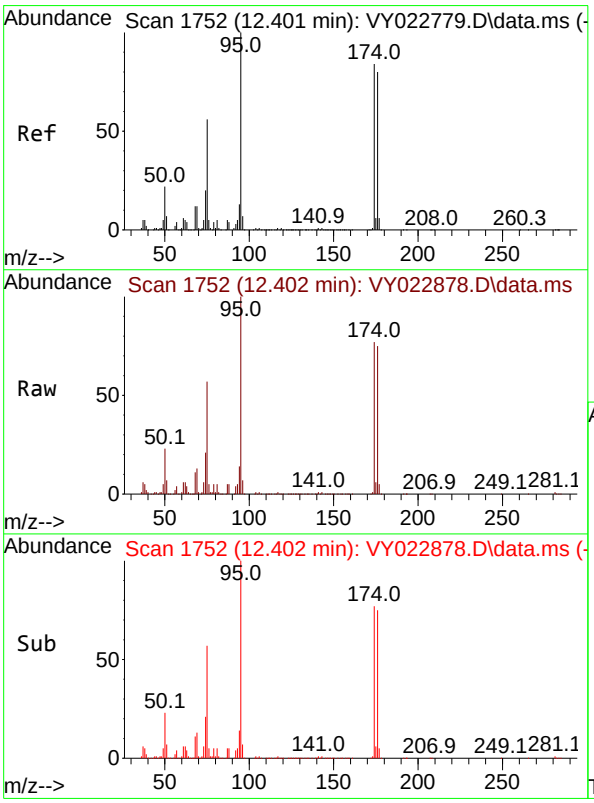
#50
Toluene-d8
Concen: 50.189 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022878.D
Acq: 30 Jun 2025 14:28

Instrument :
MSVOA_Y
ClientSampleId :
TP-86

Tgt Ion: 98 Resp: 774867

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.4	77.0

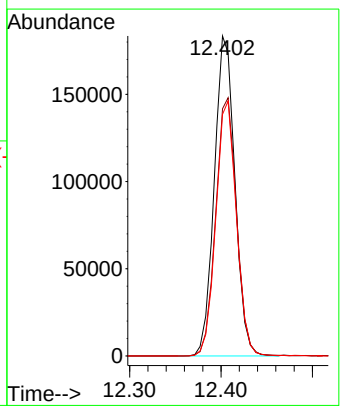


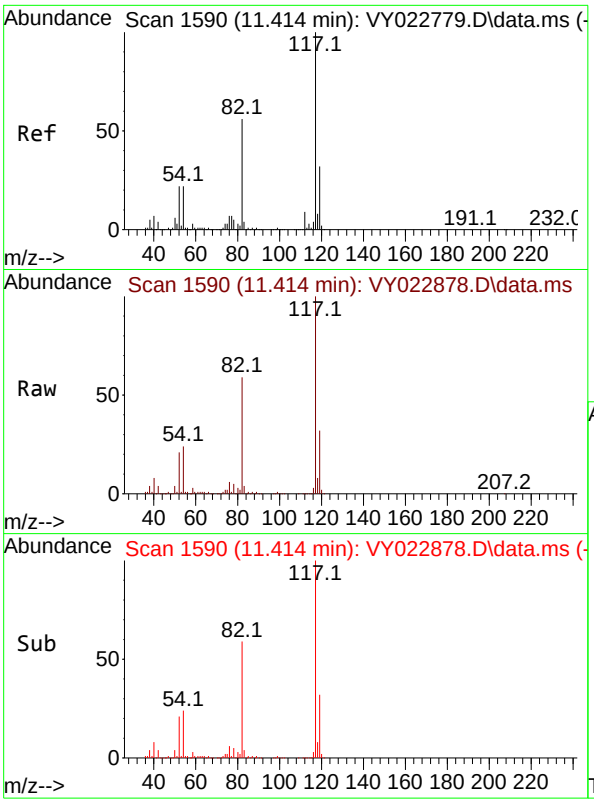


#62
4-Bromofluorobenzene
Concen: 57.862 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022878.D
Acq: 30 Jun 2025 14:28

Tgt Ion: 95 Resp: 287178

Ion	Ratio	Lower	Upper
95	100		
174	81.8	0.0	170.0
176	79.5	0.0	166.2



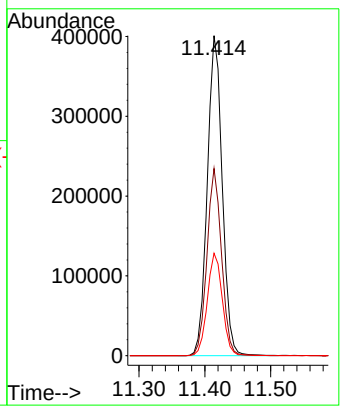


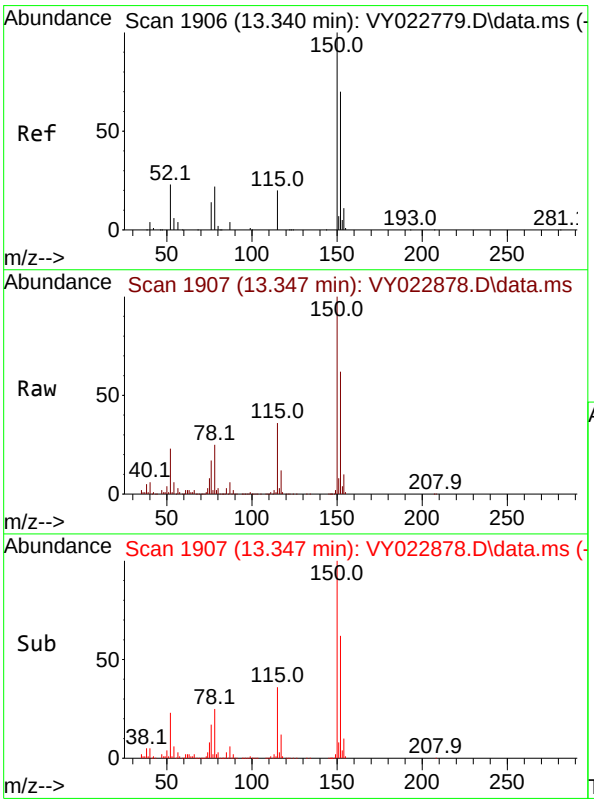
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022878.D
Acq: 30 Jun 2025 14:28

Instrument :
MSVOA_Y
ClientSampleId :
TP-86

Tgt Ion:117 Resp: 633746

Ion	Ratio	Lower	Upper
117	100		
82	58.5	44.6	66.8
119	32.0	25.4	38.0

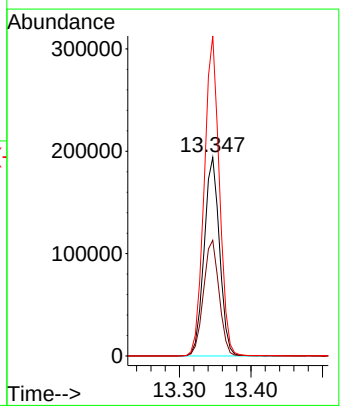




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022878.D
Acq: 30 Jun 2025 14:28

Tgt Ion:152 Resp: 290240

Ion	Ratio	Lower	Upper
152	100		
115	59.3	28.9	86.7
150	158.5	0.0	349.6



Sample Results: **VY022878.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022878.D
Acq On : 30 Jun 2025 14:28
Operator : SY/MD
Sample : Q2436-04
Misc : 6.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-86

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: VY022878.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	462	474	488	rBV	40371	127528	6.10%	1.110%
2	5.647	632	644	656	rVB3	17636	59552	2.85%	0.518%
3	7.634	959	970	975	rBV	262895	649662	31.06%	5.653%
4	7.707	975	982	996	rVB	450115	1059336	50.65%	9.218%
5	8.061	1030	1040	1051	rBV	231908	521560	24.94%	4.539%
6	8.610	1120	1130	1144	rBV	755884	1527473	73.04%	13.292%
7	10.103	1367	1375	1394	rBV	1207905	2091355	100.00%	18.199%
8	11.414	1582	1590	1604	rBV	1272855	2019149	96.55%	17.570%
9	12.402	1745	1752	1764	rBV	966393	1543501	73.80%	13.431%
10	13.347	1900	1907	1919	rBV	1222694	1854425	88.67%	16.137%
11	13.883	1989	1995	2001	rBV2	22785	38272	1.83%	0.333%

Sum of corrected areas: 11491813

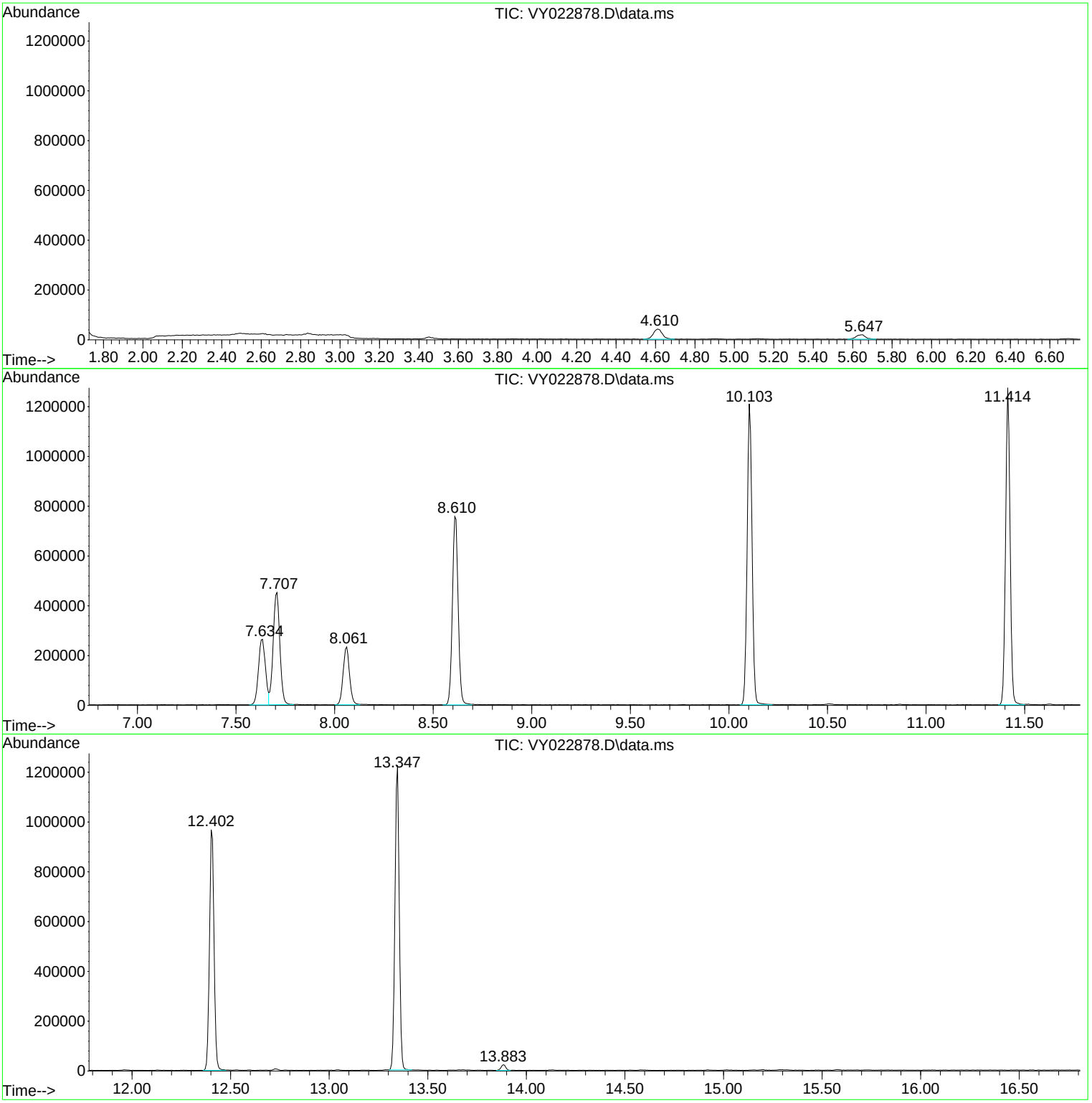
Sample Results: **VY022878.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022878.D
Acq On : 30 Jun 2025 14:28
Operator : SY/MD
Sample : Q2436-04
Misc : 6.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-86

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



Library Search Compound Report

Sample Results: **VY022878.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022878.D
Acq On : 30 Jun 2025 14:28
Operator : SY/MD
Sample : Q2436-04
Misc : 6.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-86

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 : VY022878.D
Acq On : 30 Jun 2025 14:28
Operator : SY/MD
Sample : Q2436-04
Misc : 6.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-86

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

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

Raw Data: **VY022879.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	6.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022879.D	1		06/30/25 14:52	VY063025

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	0.88	U	0.88	4.40	ug/Kg
67-64-1	Acetone	4.20	U	4.20	22.1	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	4.10	J	3.10	8.80	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	22.1	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	0.80	U	0.80	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	0.80	U	0.80	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	22.1	ug/Kg
108-88-3	Toluene	0.69	U	0.69	4.40	ug/Kg

Raw Data: **VY022879.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	6.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022879.D	1		06/30/25 14:52	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.57	U	0.57	4.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.55	U	0.55	4.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.81	U	0.81	4.40	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.1	ug/Kg
124-48-1	Dibromochloromethane	0.77	U	0.77	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.78	U	0.78	4.40	ug/Kg
127-18-4	Tetrachloroethene	0.93	U	0.93	4.40	ug/Kg
108-90-7	Chlorobenzene	0.80	U	0.80	4.40	ug/Kg
100-41-4	Ethyl Benzene	0.59	U	0.59	4.40	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.80	ug/Kg
95-47-6	o-Xylene	0.72	U	0.72	4.40	ug/Kg
100-42-5	Styrene	0.63	U	0.63	4.40	ug/Kg
75-25-2	Bromoform	0.76	U	0.76	4.40	ug/Kg
98-82-8	Isopropylbenzene	0.69	U	0.69	4.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.80	U	2.80	4.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.9		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	50.6		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		17 - 146	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	324000	7.707			
540-36-3	1,4-Difluorobenzene	612000	8.61			
3114-55-4	Chlorobenzene-d5	599000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	250000	13.34			

Raw Data: **VY022879.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	6.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022879.D	1		06/30/25 14:52	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 : VY022879.D
Acq On : 30 Jun 2025 14:52
Operator : SY/MD
Sample : Q2436-05
Misc : 6.13g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-84

Quant Time: Jul 01 03:38:12 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

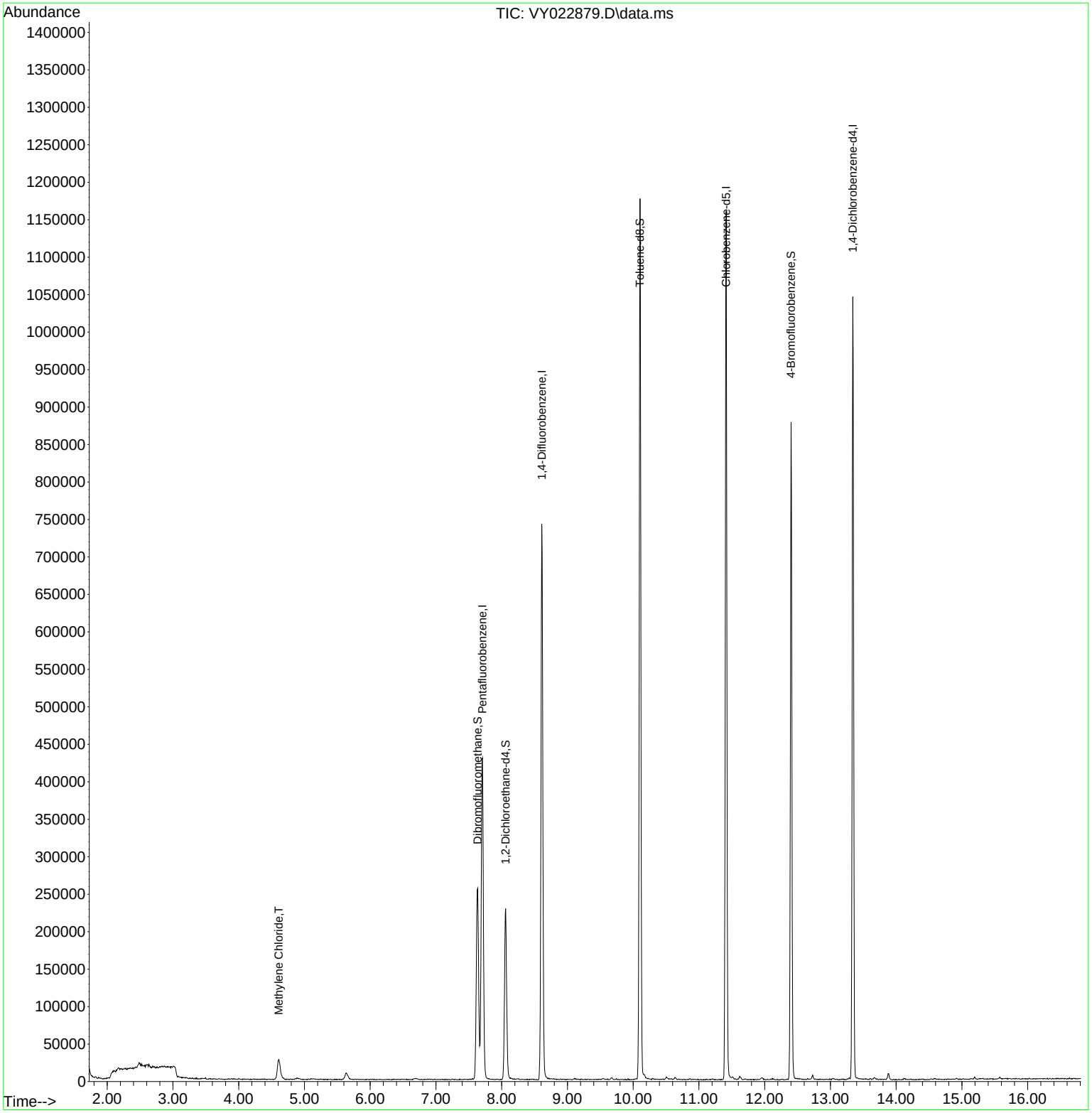
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	323652	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	612070	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	599073	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	250413	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	180181	49.880	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.760%			
35) Dibromofluoromethane	7.634	113	185558	49.850	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.700%			
50) Toluene-d8	10.103	98	747799	50.627	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.260%			
62) 4-Bromofluorobenzene	12.402	95	259107	54.568	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 109.140%			
Target Compounds						Qvalue
20) Methylene Chloride	4.610	84	19840	4.601	ug/l	97

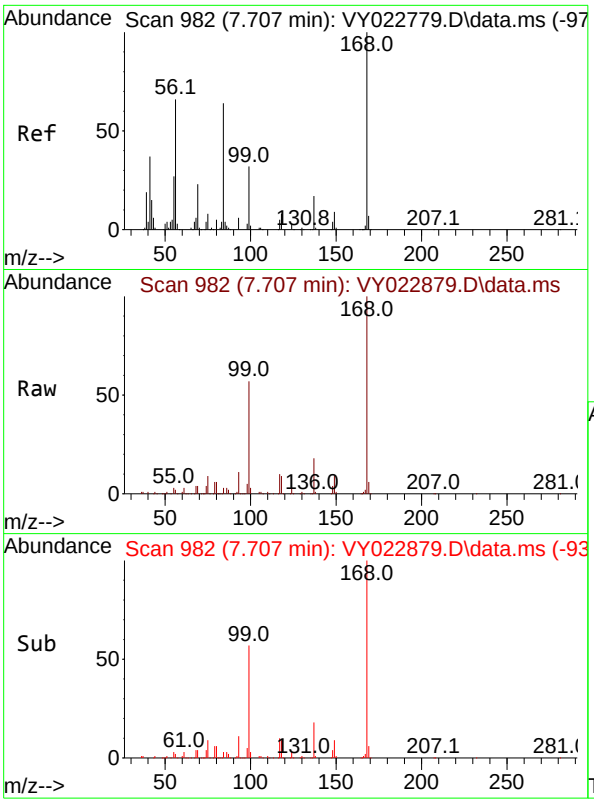
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022879.D
Acq On : 30 Jun 2025 14:52
Operator : SY/MD
Sample : Q2436-05
Misc : 6.13g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-84

Quant Time: Jul 01 03:38:12 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



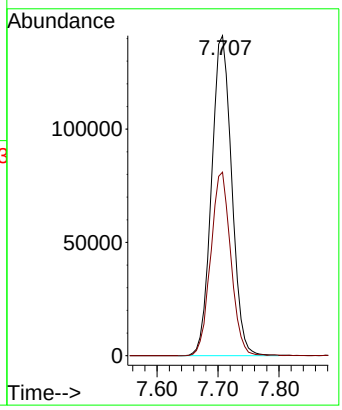


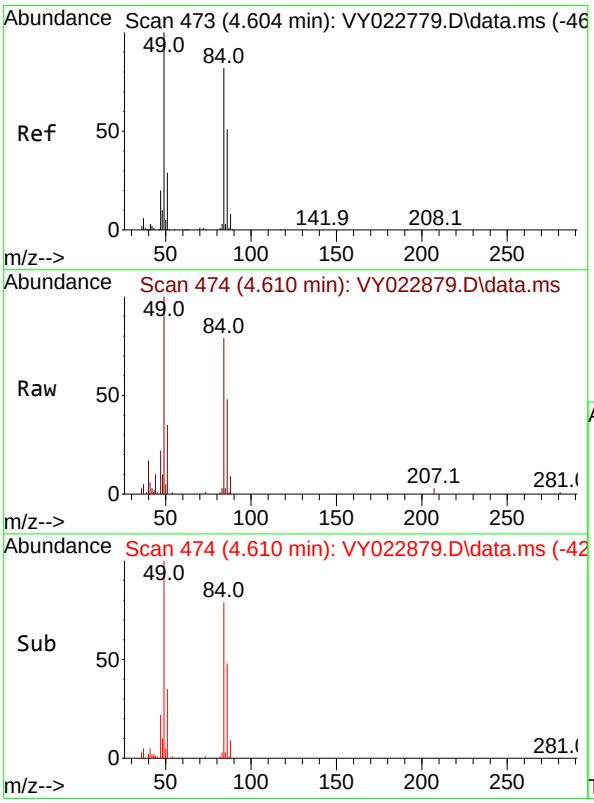
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022879.D
Acq: 30 Jun 2025 14:52

Instrument :
MSVOA_Y
ClientSampleId :
TP-84

Tgt Ion:168 Resp: 323652

Ion	Ratio	Lower	Upper
168	100		
99	57.3	44.3	66.5

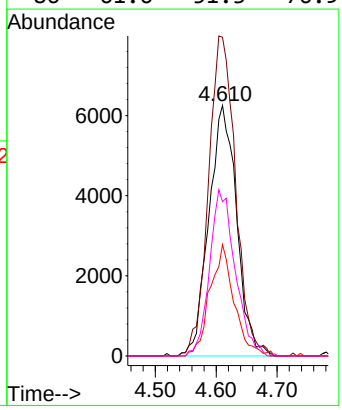


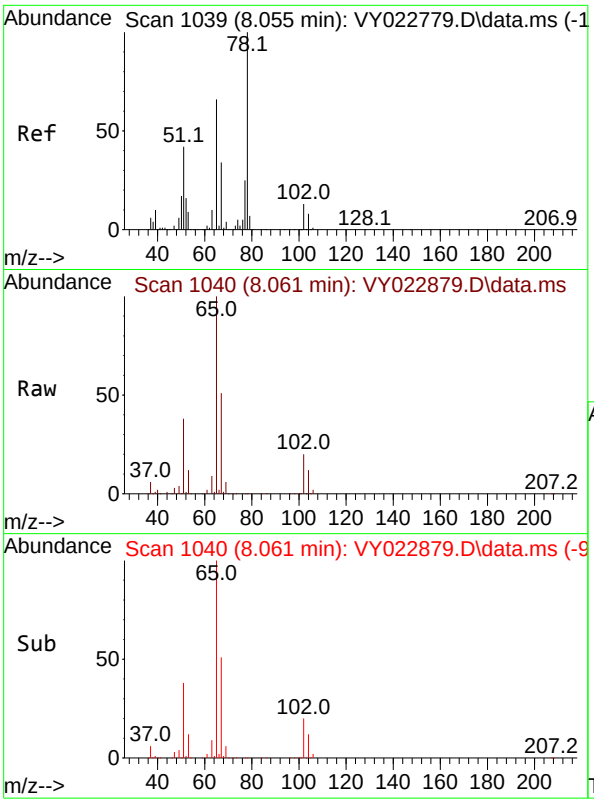


#20
Methylene Chloride
Concen: 4.601 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY022879.D
Acq: 30 Jun 2025 14:52

Tgt Ion: 84 Resp: 19840

Ion	Ratio	Lower	Upper
84	100		
49	127.2	101.9	152.9
51	44.4	29.8	44.8
86	61.6	51.3	76.9



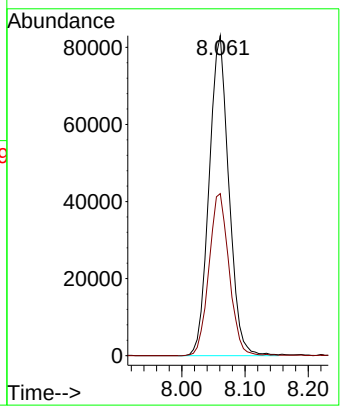


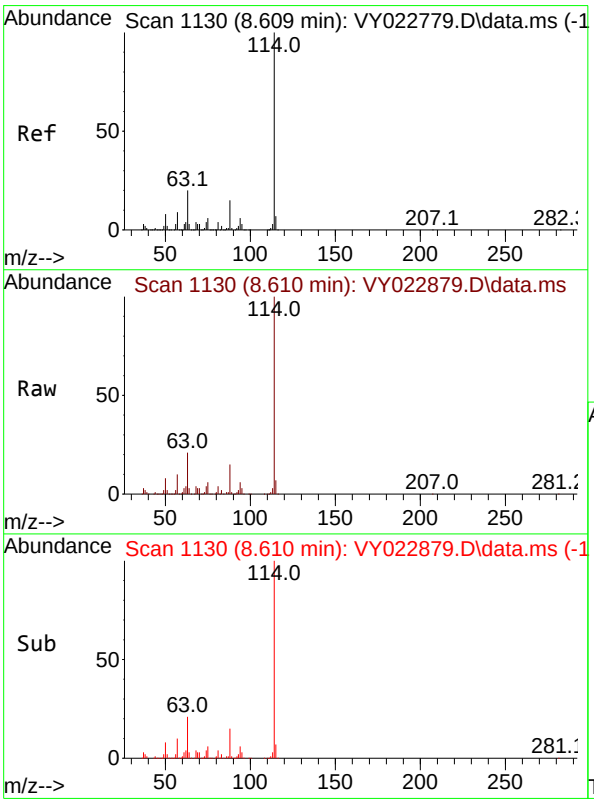
#33
1,2-Dichloroethane-d4
Concen: 49.880 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022879.D
Acq: 30 Jun 2025 14:52

Instrument :
MSVOA_Y
ClientSampleId :
TP-84

Tgt Ion: 65 Resp: 180181

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	103.4

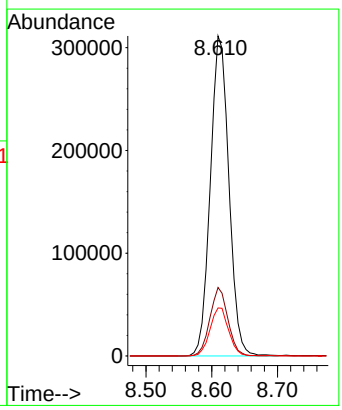


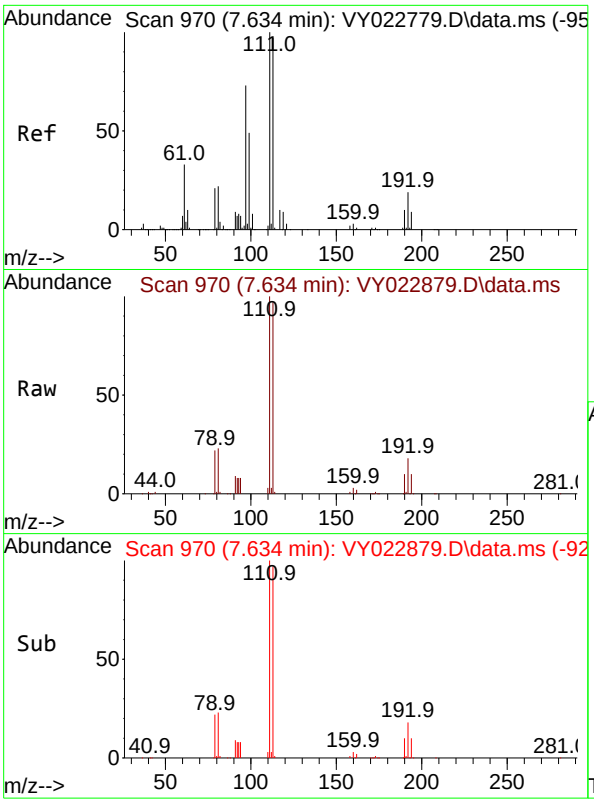


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022879.D
Acq: 30 Jun 2025 14:52

Tgt Ion:114 Resp: 612070

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	40.8
88	15.0	0.0	27.8



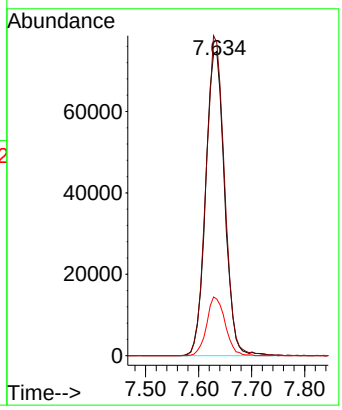


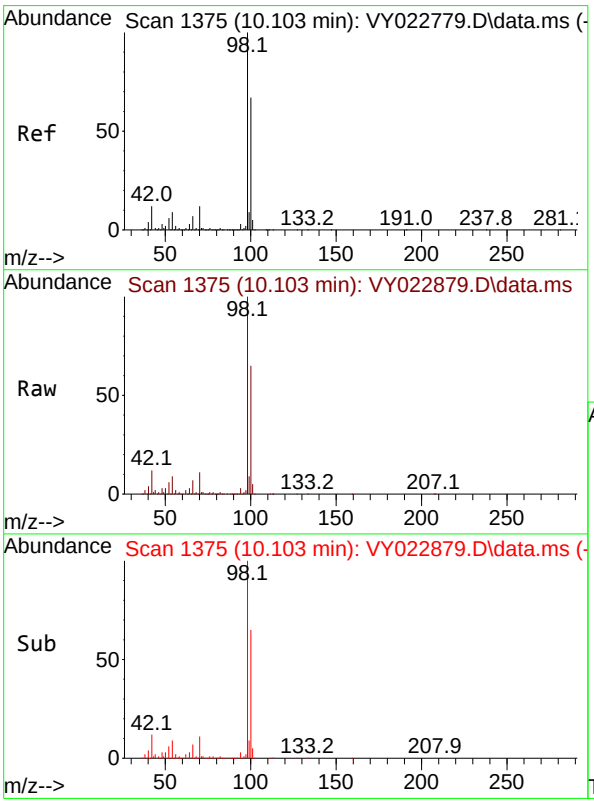
#35
Dibromofluoromethane
Concen: 49.850 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022879.D
Acq: 30 Jun 2025 14:52

Instrument :
MSVOA_Y
ClientSampleId :
TP-84

Tgt Ion:113 Resp: 185558

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.1	121.7
192	18.9	14.2	21.2

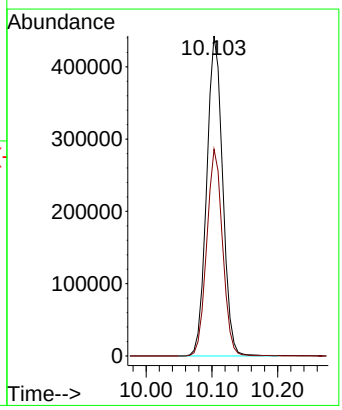


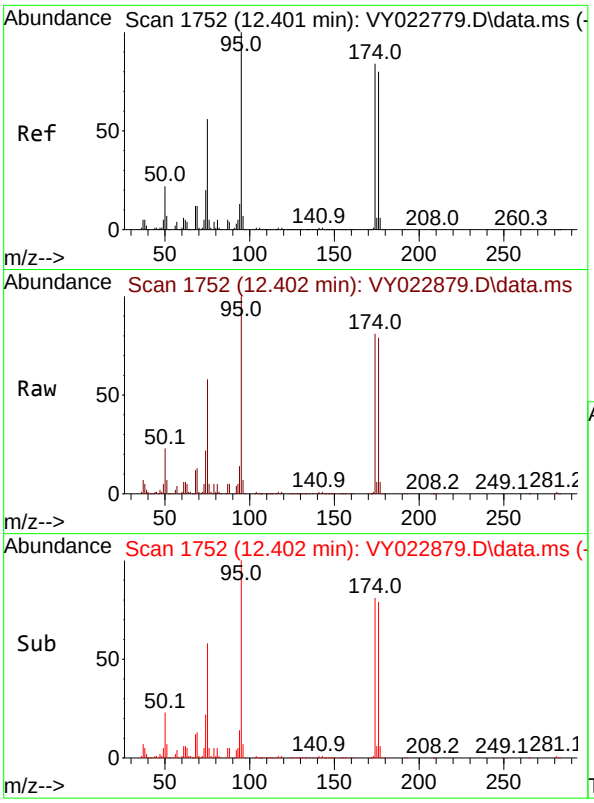


#50
Toluene-d8
Concen: 50.627 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022879.D
Acq: 30 Jun 2025 14:52

Tgt Ion: 98 Resp: 747799

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.4	77.0



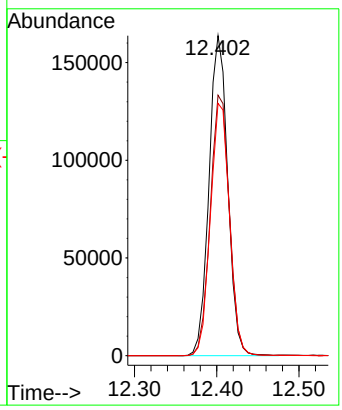


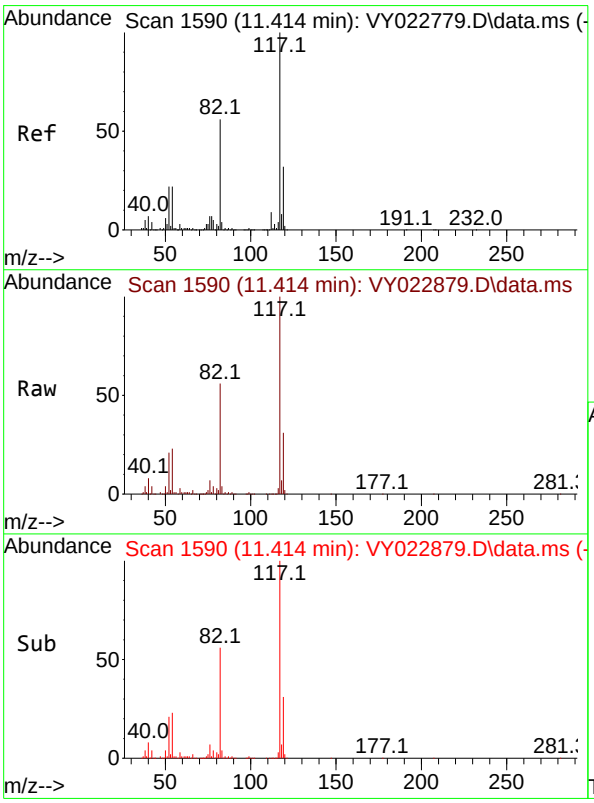
#62
4-Bromofluorobenzene
Concen: 54.568 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022879.D
Acq: 30 Jun 2025 14:52

Instrument :
MSVOA_Y
ClientSampleId :
TP-84

Tgt Ion: 95 Resp: 259107

Ion	Ratio	Lower	Upper
95	100		
174	83.2	0.0	170.0
176	80.3	0.0	166.2

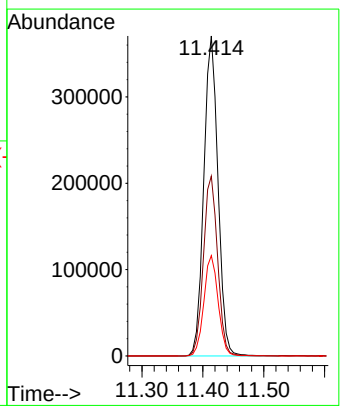


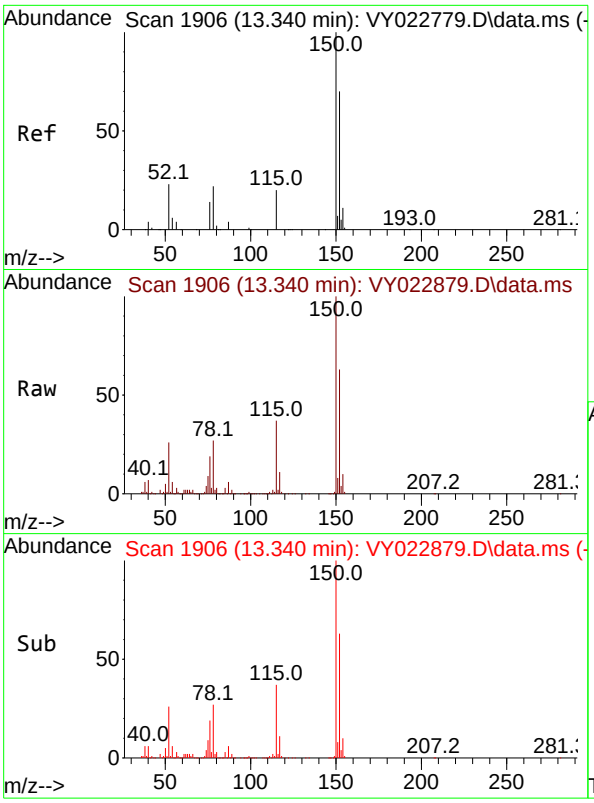


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022879.D
Acq: 30 Jun 2025 14:52

Tgt Ion:117 Resp: 599073

Ion	Ratio	Lower	Upper
117	100		
82	56.2	44.6	66.8
119	31.3	25.4	38.0



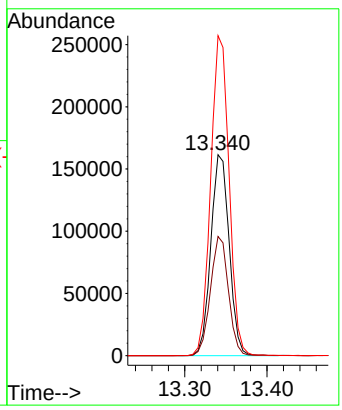


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022879.D
Acq: 30 Jun 2025 14:52

Instrument :
MSVOA_Y
ClientSampleId :
TP-84

Tgt Ion:152 Resp: 250413

Ion	Ratio	Lower	Upper
152	100		
115	58.5	28.9	86.7
150	159.5	0.0	349.6



Sample Results: **VY022879.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022879.D
Acq On : 30 Jun 2025 14:52
Operator : SY/MD
Sample : Q2436-05
Misc : 6.13g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-84

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: VY022879.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.105	51	63	64	rBV2	10405	31670	1.59%	0.298%
2	4.610	460	474	485	rBV2	26846	88989	4.46%	0.839%
3	5.634	635	642	653	rVB5	8527	25355	1.27%	0.239%
4	7.634	959	970	975	rBV	254995	617935	30.99%	5.823%
5	7.707	975	982	997	rVB	428382	992459	49.77%	9.353%
6	8.061	1030	1040	1051	rBV	228319	510817	25.61%	4.814%
7	8.610	1120	1130	1146	rBV	741931	1465244	73.47%	13.808%
8	10.103	1367	1375	1384	rBV	1174856	1994232	100.00%	18.793%
9	11.414	1580	1590	1601	rBV	1158704	1888650	94.71%	17.798%
10	12.402	1745	1752	1763	rBV	876874	1395661	69.98%	13.152%
11	13.340	1899	1906	1915	rBV	1043817	1600405	80.25%	15.082%

Sum of corrected areas: 10611417

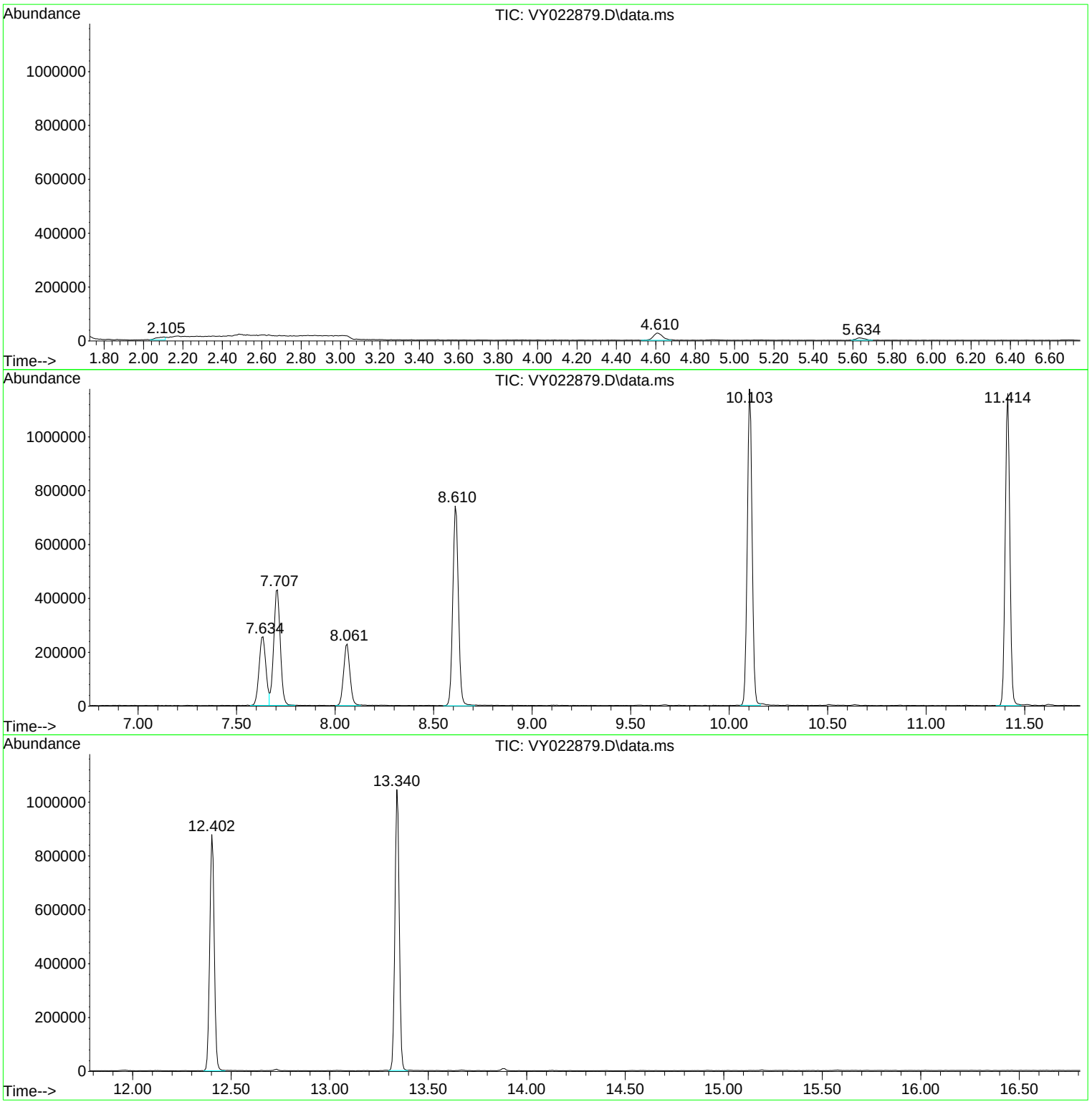
Sample Results: **VY022879.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022879.D
Acq On : 30 Jun 2025 14:52
Operator : SY/MD
Sample : Q2436-05
Misc : 6.13g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-84

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



Sample Results: **VY022879.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022879.D
Acq On : 30 Jun 2025 14:52
Operator : SY/MD
Sample : Q2436-05
Misc : 6.13g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-84

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 : VY022879.D
Acq On : 30 Jun 2025 14:52
Operator : SY/MD
Sample : Q2436-05
Misc : 6.13g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-84

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

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

Raw Data: **VY022861.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	5.19 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022861.D	1		06/27/25 14:56	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.30	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.30	ug/Kg
75-01-4	Vinyl Chloride	0.84	U	0.84	5.30	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.30	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.30	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.30	ug/Kg
67-64-1	Acetone	5.00	U	5.00	26.6	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.78	U	0.78	5.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.30	ug/Kg
75-09-2	Methylene Chloride	3.80	U	3.80	10.6	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.91	U	0.91	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.85	U	0.85	5.30	ug/Kg
110-82-7	Cyclohexane	0.84	U	0.84	5.30	ug/Kg
78-93-3	2-Butanone	7.00	U	7.00	26.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.30	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.30	ug/Kg
67-66-3	Chloroform	0.89	U	0.89	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	5.30	ug/Kg
108-87-2	Methylcyclohexane	0.97	U	0.97	5.30	ug/Kg
71-43-2	Benzene	0.84	U	0.84	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.84	U	0.84	5.30	ug/Kg
79-01-6	Trichloroethene	0.86	U	0.86	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.97	U	0.97	5.30	ug/Kg
75-27-4	Bromodichloromethane	0.83	U	0.83	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	26.6	ug/Kg
108-88-3	Toluene	0.83	U	0.83	5.30	ug/Kg

Raw Data: **VY022861.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	5.19 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022861.D	1		06/27/25 14:56	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.69	U	0.69	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.66	U	0.66	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.98	U	0.98	5.30	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.6	ug/Kg
124-48-1	Dibromochloromethane	0.93	U	0.93	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.94	U	0.94	5.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.30	ug/Kg
108-90-7	Chlorobenzene	0.97	U	0.97	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.71	U	0.71	5.30	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.6	ug/Kg
95-47-6	o-Xylene	0.87	U	0.87	5.30	ug/Kg
100-42-5	Styrene	0.75	U	0.75	5.30	ug/Kg
75-25-2	Bromoform	0.91	U	0.91	5.30	ug/Kg
98-82-8	Isopropylbenzene	0.83	U	0.83	5.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.70	5.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.20	U	3.20	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	3.40	5.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.5		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	49.6		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		17 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	337000	7.713			
540-36-3	1,4-Difluorobenzene	630000	8.615			
3114-55-4	Chlorobenzene-d5	584000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	232000	13.346			

Raw Data: **VY022861.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	5.19 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022861.D	1		06/27/25 14:56	VY062725

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\VY062725\
Data File : VY022861.D
Acq On : 27 Jun 2025 14:56
Operator : SY/MD
Sample : Q2436-06
Misc : 5.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-83

Quant Time: Jun 27 23:18:53 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	337210	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	630445	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	584339	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	232255	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	175030	46.506	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.020%			
35) Dibromofluoromethane	7.634	113	190715	49.742	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.480%			
50) Toluene-d8	10.109	98	754544	49.595	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.200%			
62) 4-Bromofluorobenzene	12.407	95	248009	50.709	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.420%			

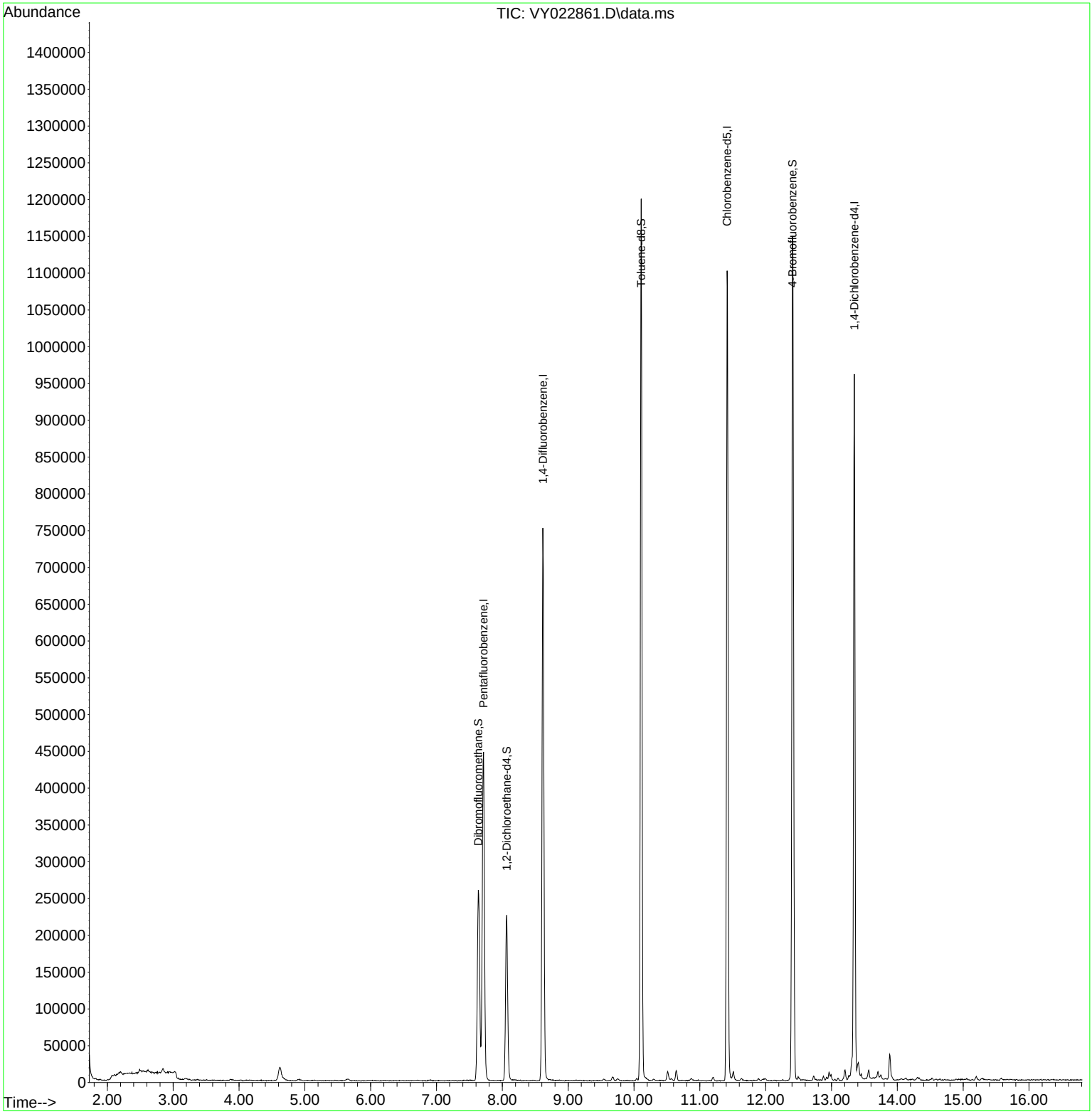
Target Compounds Qvalue

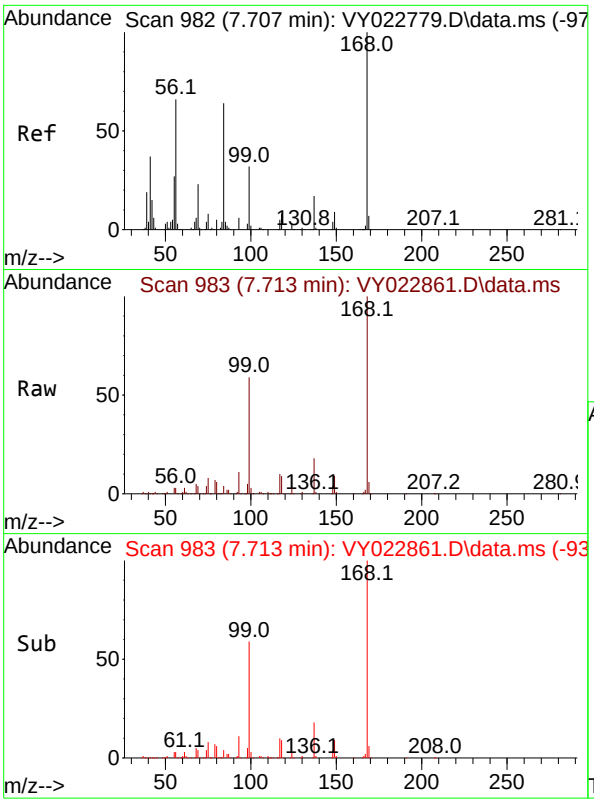
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022861.D
Acq On : 27 Jun 2025 14:56
Operator : SY/MD
Sample : Q2436-06
Misc : 5.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-83

Quant Time: Jun 27 23:18:53 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



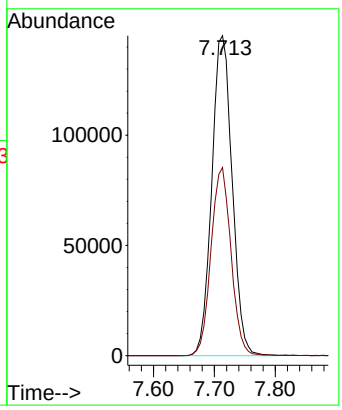


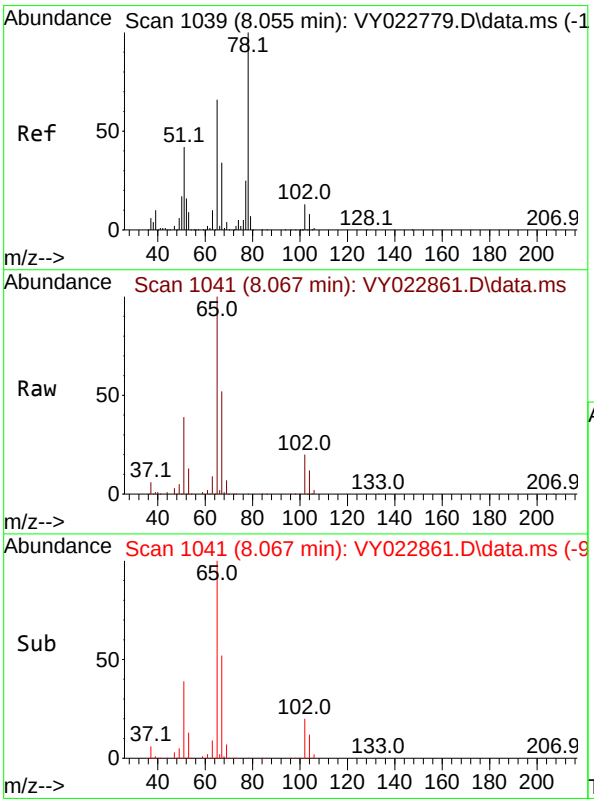
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022861.D
Acq: 27 Jun 2025 14:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-83

Tgt Ion:168 Resp: 337210

Ion	Ratio	Lower	Upper
168	100		
99	58.8	44.3	66.5

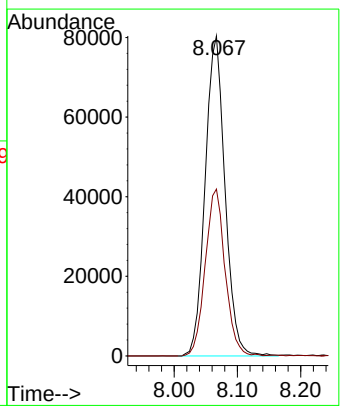


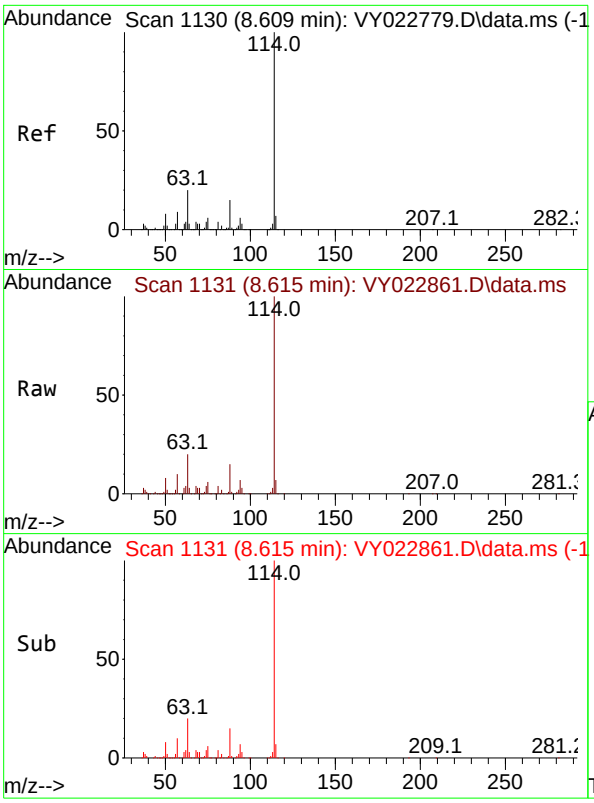


#33
1,2-Dichloroethane-d4
Concen: 46.506 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022861.D
Acq: 27 Jun 2025 14:56

Tgt Ion: 65 Resp: 175030

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.4



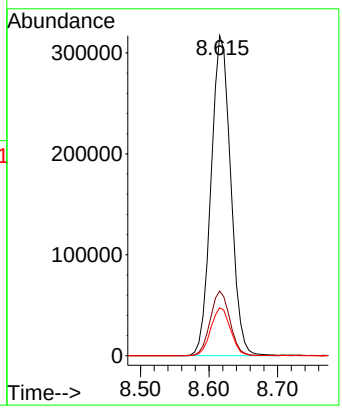


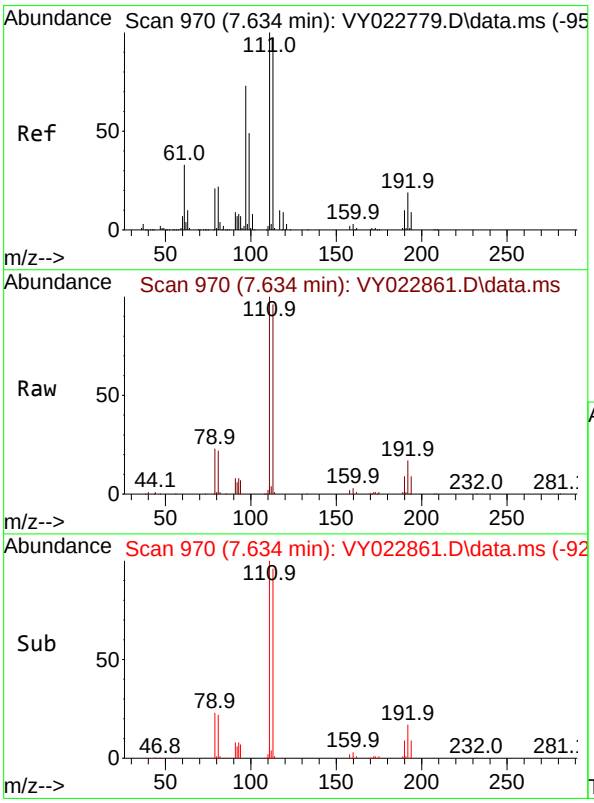
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022861.D
Acq: 27 Jun 2025 14:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-83

Tgt Ion:114 Resp: 630445

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.8
88	14.9	0.0	27.8

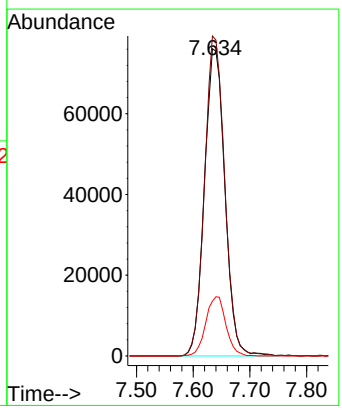


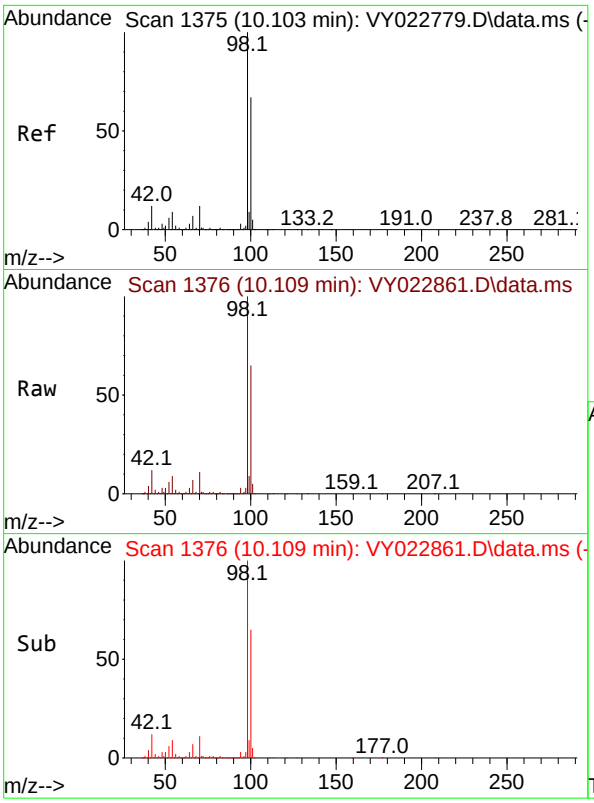


#35
Dibromofluoromethane
Concen: 49.742 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022861.D
Acq: 27 Jun 2025 14:56

Tgt Ion:113 Resp: 190715

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.1	121.7
192	18.9	14.2	21.2



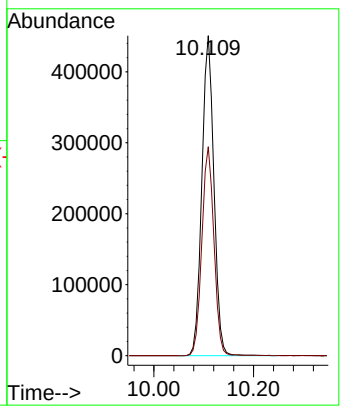


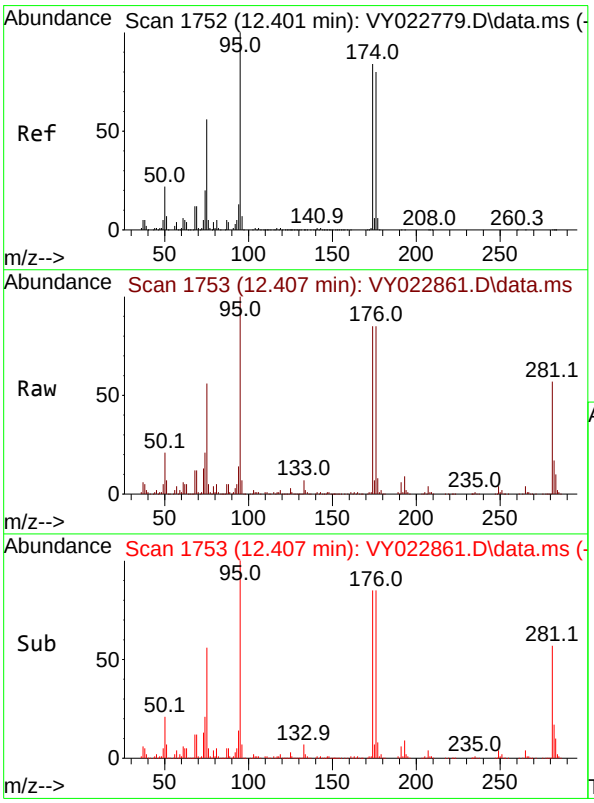
#50
Toluene-d8
Concen: 49.595 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022861.D
Acq: 27 Jun 2025 14:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-83

Tgt Ion: 98 Resp: 754544

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.4	77.0

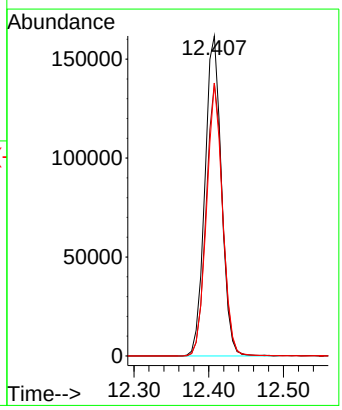


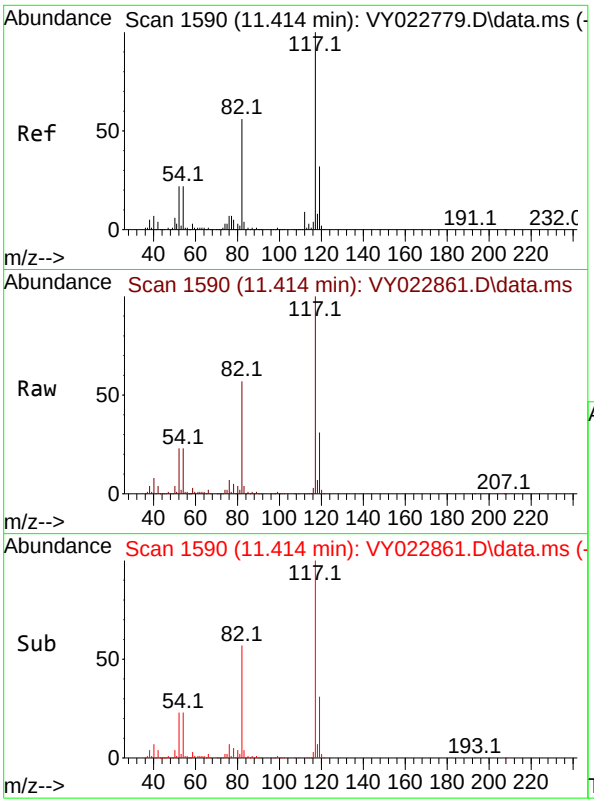


#62
4-Bromofluorobenzene
Concen: 50.709 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022861.D
Acq: 27 Jun 2025 14:56

Tgt Ion: 95 Resp: 248009

Ion	Ratio	Lower	Upper
95	100		
174	84.6	0.0	170.0
176	82.5	0.0	166.2



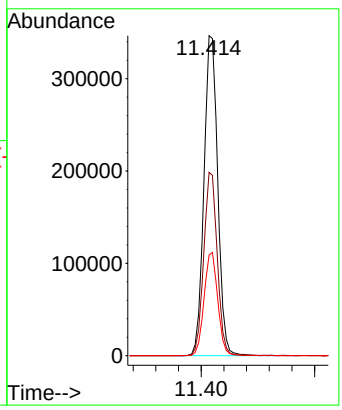


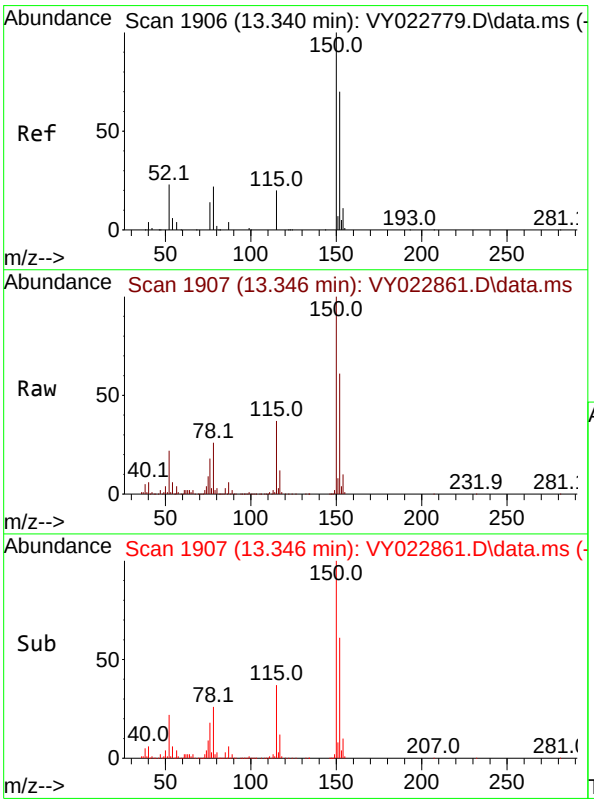
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022861.D
Acq: 27 Jun 2025 14:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-83

Tgt Ion:117 Resp: 584339

Ion	Ratio	Lower	Upper
117	100		
82	57.3	44.6	66.8
119	31.5	25.4	38.0

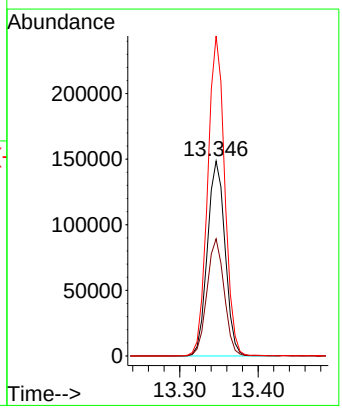




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022861.D
Acq: 27 Jun 2025 14:56

Tgt Ion:152 Resp: 232255

Ion	Ratio	Lower	Upper
152	100		
115	58.7	28.9	86.7
150	158.4	0.0	349.6



Sample Results: **VY022861.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022861.D
Acq On : 27 Jun 2025 14:56
Operator : SY/MD
Sample : Q2436-06
Misc : 5.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-83

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: VY022861.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	464	476	487	rBV2	18040	63434	2.91%	0.554%
2	7.634	961	970	976	rBV2	258767	629226	28.89%	5.492%
3	7.713	976	983	996	rVB	446000	1034330	47.50%	9.028%
4	8.067	1031	1041	1055	rBV	224805	498016	22.87%	4.347%
5	8.615	1122	1131	1145	rBV	751217	1483293	68.11%	12.947%
6	10.109	1368	1376	1392	rBV	1197740	2027321	93.09%	17.695%
7	10.511	1435	1442	1448	rBV2	12453	23963	1.10%	0.209%
8	10.640	1458	1463	1469	rBV3	13586	22210	1.02%	0.194%
9	11.414	1582	1590	1601	rBV	1101210	1850103	84.96%	16.149%
10	12.407	1743	1753	1764	rBV3	1147167	2177725	100.00%	19.008%
11	13.206	1874	1884	1889	rBV2	14855	29107	1.34%	0.254%
12	13.346	1894	1907	1913	rVV	955735	1515548	69.59%	13.228%
13	13.407	1913	1917	1922	rVB4	17919	34511	1.58%	0.301%
14	13.883	1989	1995	2008	rVB	35009	67932	3.12%	0.593%

Sum of corrected areas: 11456719

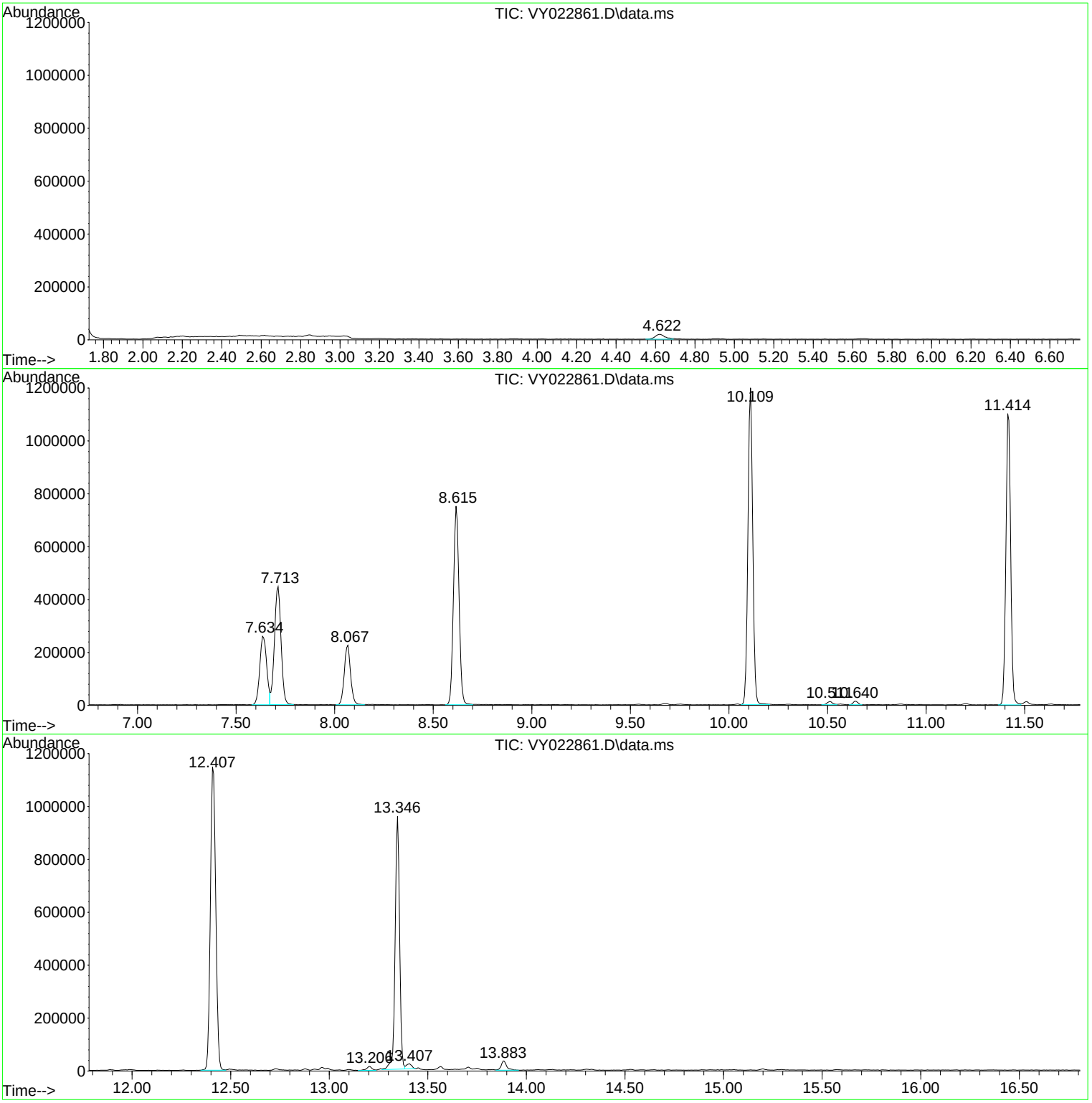
Sample Results: **VY022861.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022861.D
Acq On : 27 Jun 2025 14:56
Operator : SY/MD
Sample : Q2436-06
Misc : 5.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-83

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



Library Search Compound Report

Sample Results: **VY022861.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022861.D
Acq On : 27 Jun 2025 14:56
Operator : SY/MD
Sample : Q2436-06
Misc : 5.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-83

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\VY062725\
Data File : VY022861.D
Acq On : 27 Jun 2025 14:56
Operator : SY/MD
Sample : Q2436-06
Misc : 5.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-83

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

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

Raw Data: **VY022862.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.9
Sample Wt/Vol:	6.71 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022862.D	1		06/27/25 15:19	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.94	U	0.94	4.10	ug/Kg
74-87-3	Chloromethane	0.94	U	0.94	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.65	U	0.65	4.10	ug/Kg
74-83-9	Bromomethane	0.89	U	0.89	4.10	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.88	U	0.88	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.83	U	0.83	4.10	ug/Kg
67-64-1	Acetone	3.90	U	3.90	20.7	ug/Kg
75-15-0	Carbon Disulfide	0.88	U	0.88	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.61	U	0.61	4.10	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.71	U	0.71	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.66	U	0.66	4.10	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.10	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	20.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.62	U	0.62	4.10	ug/Kg
74-97-5	Bromochloromethane	0.95	U	0.95	4.10	ug/Kg
67-66-3	Chloroform	0.70	U	0.70	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.77	U	0.77	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.10	ug/Kg
71-43-2	Benzene	0.65	U	0.65	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
79-01-6	Trichloroethene	0.67	U	0.67	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.75	U	0.75	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.65	U	0.65	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	20.7	ug/Kg
108-88-3	Toluene	0.65	U	0.65	4.10	ug/Kg

Raw Data: **VY022862.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.9
Sample Wt/Vol:	6.71 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022862.D	1		06/27/25 15:19	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.54	U	0.54	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.51	U	0.51	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.76	U	0.76	4.10	ug/Kg
591-78-6	2-Hexanone	3.10	U	3.10	20.7	ug/Kg
124-48-1	Dibromochloromethane	0.72	U	0.72	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.73	U	0.73	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.87	U	0.87	4.10	ug/Kg
108-90-7	Chlorobenzene	0.75	U	0.75	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.56	U	0.56	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.30	ug/Kg
95-47-6	o-Xylene	0.68	U	0.68	4.10	ug/Kg
100-42-5	Styrene	0.59	U	0.59	4.10	ug/Kg
75-25-2	Bromoform	0.71	U	0.71	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.65	U	0.65	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.50	U	2.50	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	39.1		63 - 155	78%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		70 - 134	94%	SPK: 50
2037-26-5	Toluene-d8	49.1		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		17 - 146	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	349000	7.707			
540-36-3	1,4-Difluorobenzene	633000	8.616			
3114-55-4	Chlorobenzene-d5	541000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	204000	13.346			

Raw Data: **VY022862.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.9
Sample Wt/Vol:	6.71 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022862.D	1		06/27/25 15:19	VY062725

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\VY062725\
Data File : VY022862.D
Acq On : 27 Jun 2025 15:19
Operator : SY/MD
Sample : Q2436-07
Misc : 6.71g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-87

Quant Time: Jun 27 23:19:14 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	7.707	168	348864	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	632840	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	540565	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	204342	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	152204	39.090	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	78.180%		
35) Dibromofluoromethane	7.634	113	180779	46.972	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	93.940%		
50) Toluene-d8	10.109	98	749594	49.083	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	98.160%		
62) 4-Bromofluorobenzene	12.402	95	221851	45.189	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	90.380%		

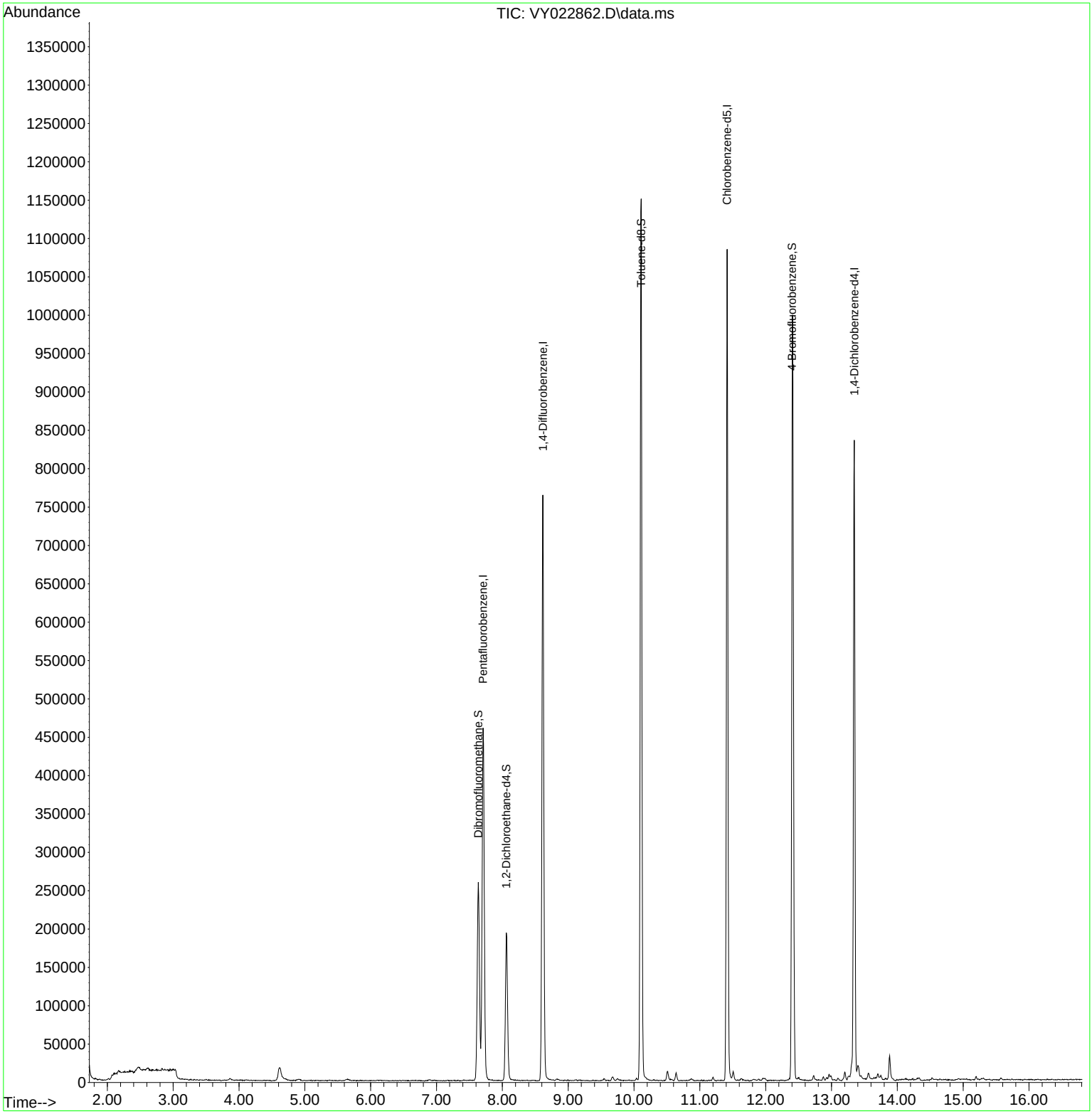
Target Compounds Qvalue

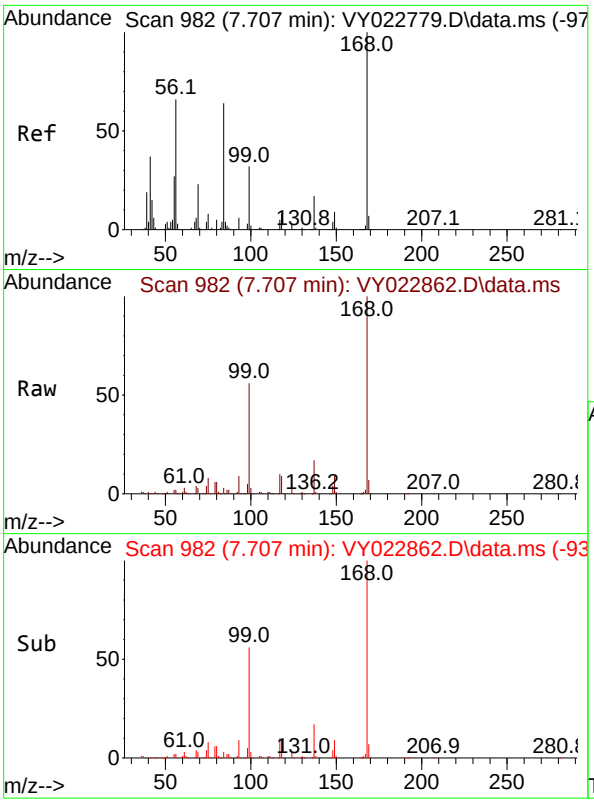
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022862.D
Acq On : 27 Jun 2025 15:19
Operator : SY/MD
Sample : Q2436-07
Misc : 6.71g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-87

Quant Time: Jun 27 23:19:14 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



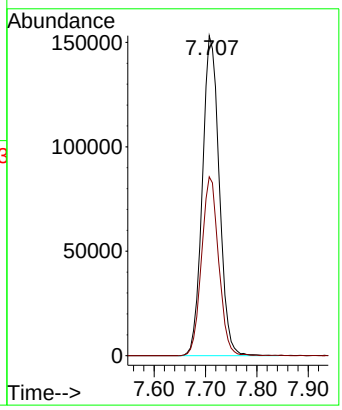


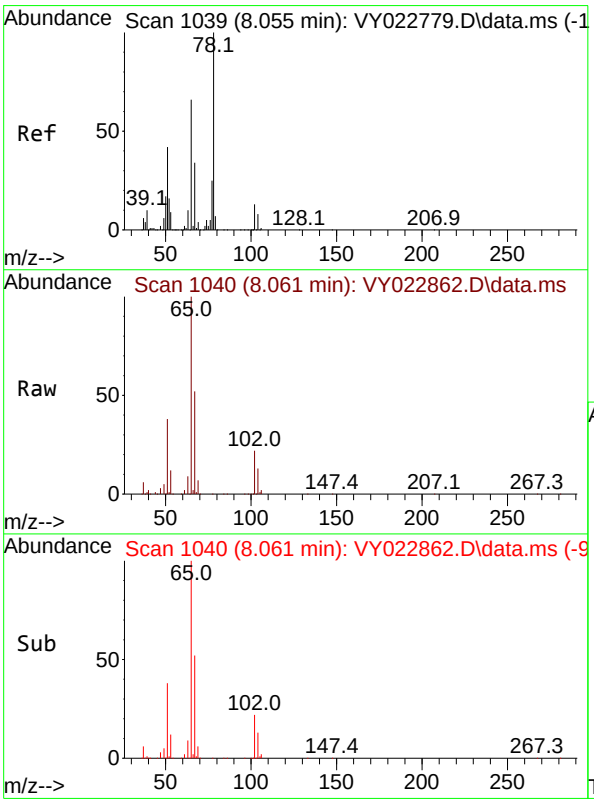
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022862.D
Acq: 27 Jun 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-87

Tgt Ion:168 Resp: 348864

Ion	Ratio	Lower	Upper
168	100		
99	55.9	44.3	66.5

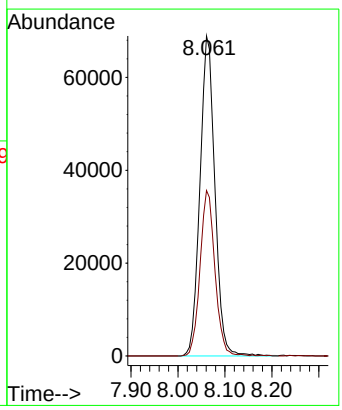


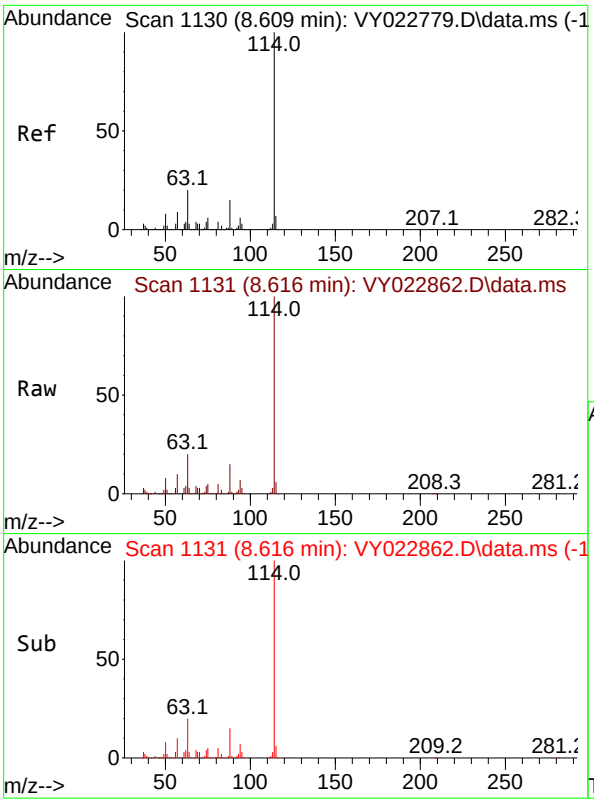


#33
1,2-Dichloroethane-d4
Concen: 39.090 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022862.D
Acq: 27 Jun 2025 15:19

Tgt Ion: 65 Resp: 152204

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.4



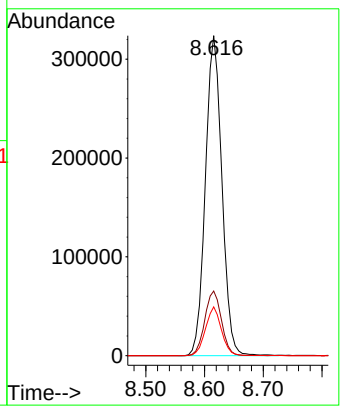


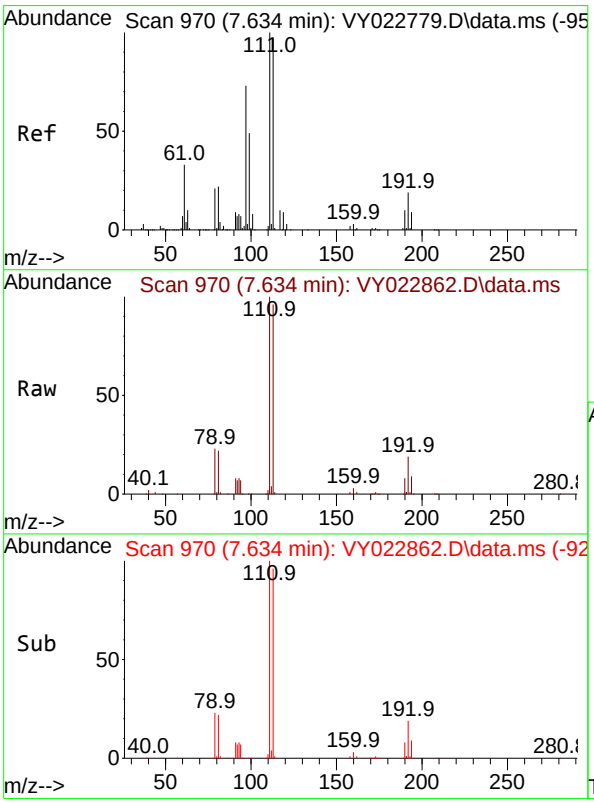
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022862.D
Acq: 27 Jun 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-87

Tgt Ion:114 Resp: 632840

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.8
88	15.3	0.0	27.8

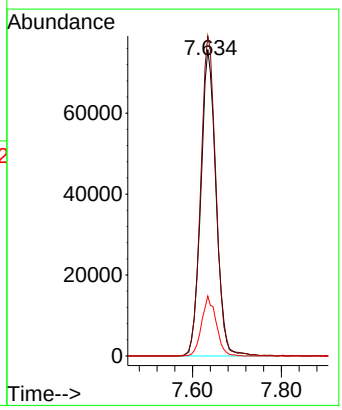


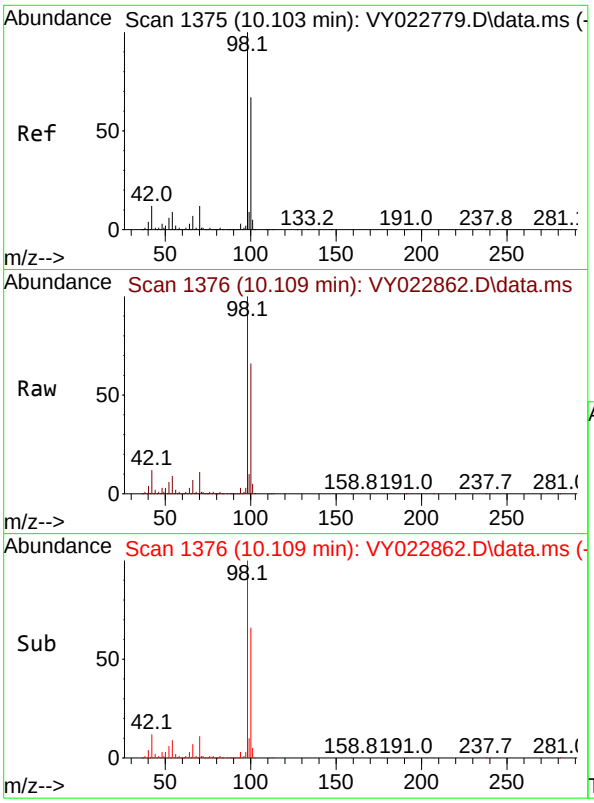


#35
Dibromofluoromethane
Concen: 46.972 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022862.D
Acq: 27 Jun 2025 15:19

Tgt Ion:113 Resp: 180779

Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.1	121.7
192	18.6	14.2	21.2



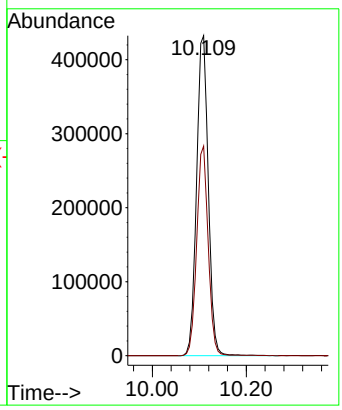


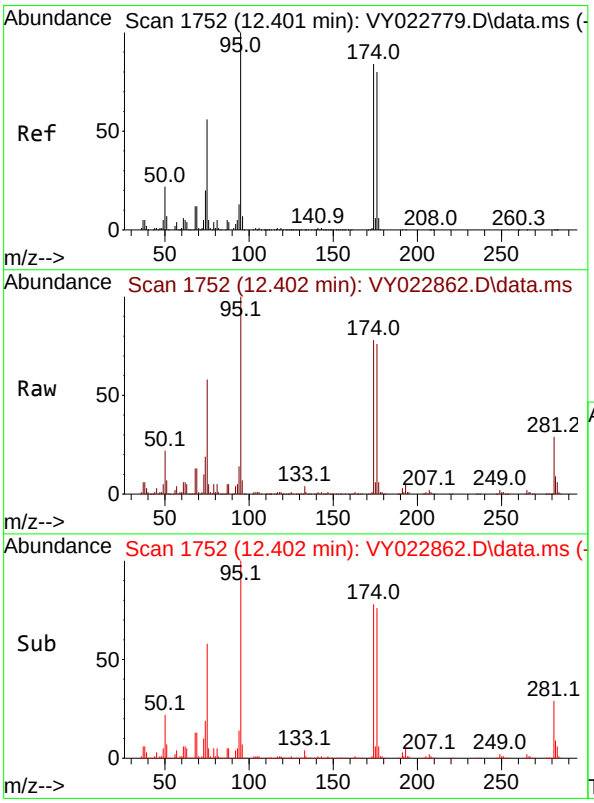
#50
Toluene-d8
Concen: 49.083 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022862.D
Acq: 27 Jun 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-87

Tgt Ion: 98 Resp: 749594

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.4	77.0

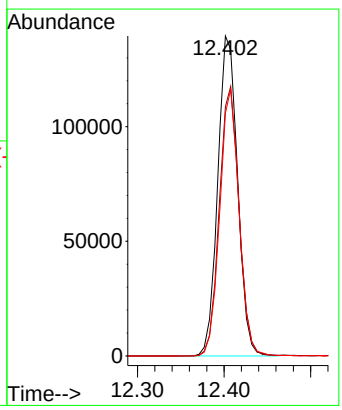


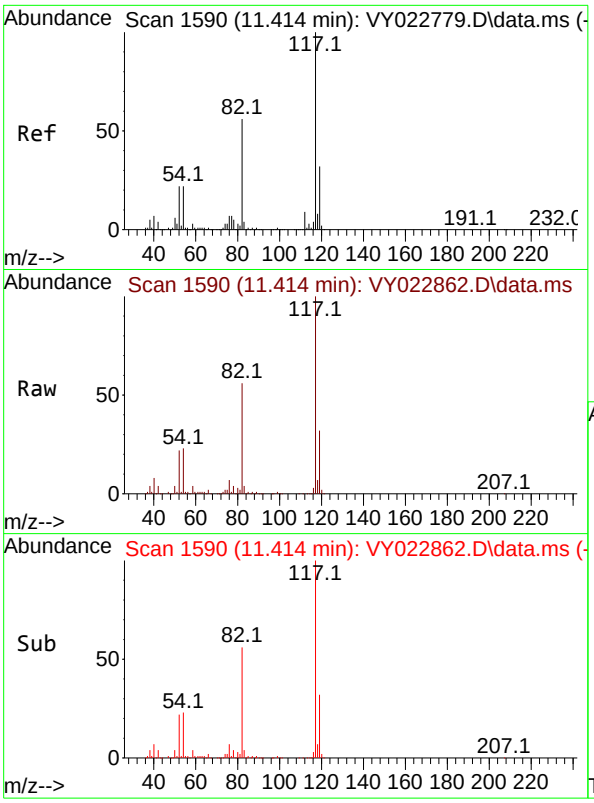


#62
4-Bromofluorobenzene
Concen: 45.189 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022862.D
Acq: 27 Jun 2025 15:19

Tgt Ion: 95 Resp: 221851

Ion	Ratio	Lower	Upper
95	100		
174	83.4	0.0	170.0
176	81.2	0.0	166.2



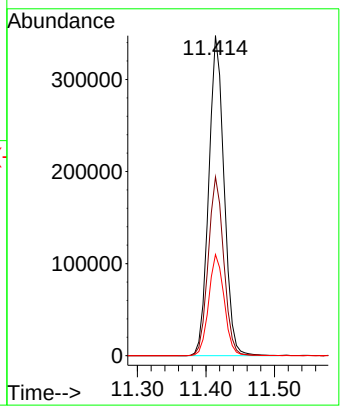


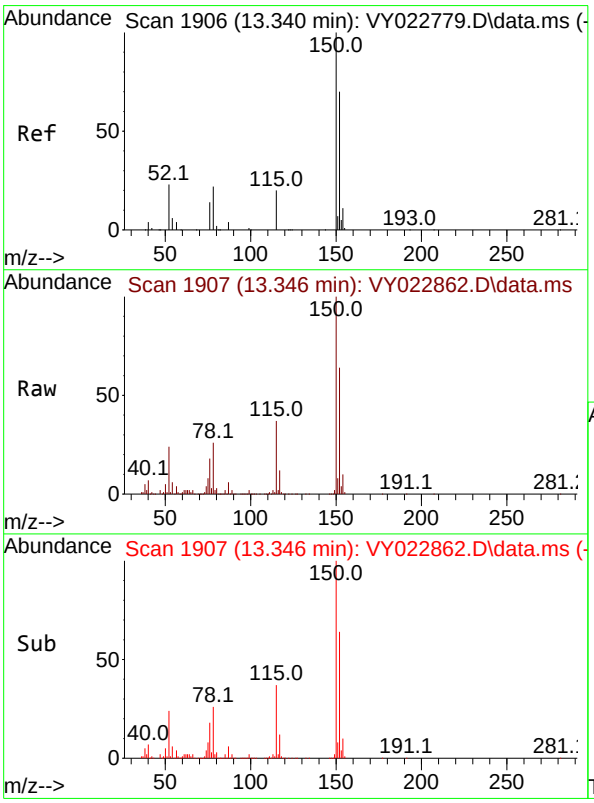
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022862.D
Acq: 27 Jun 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-87

Tgt Ion:117 Resp: 540565

Ion	Ratio	Lower	Upper
117	100		
82	55.9	44.6	66.8
119	31.6	25.4	38.0

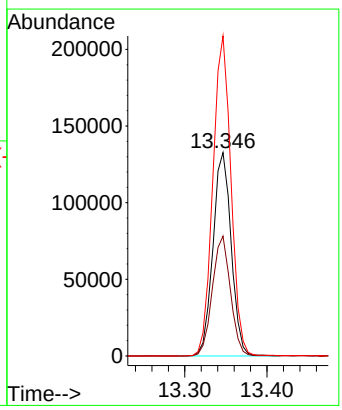




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022862.D
Acq: 27 Jun 2025 15:19

Tgt Ion:152 Resp: 204342

Ion	Ratio	Lower	Upper
152	100		
115	58.5	28.9	86.7
150	156.3	0.0	349.6



Sample Results: **VY022862.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022862.D
Acq On : 27 Jun 2025 15:19
Operator : SY/MD
Sample : Q2436-07
Misc : 6.71g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-87

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: VY022862.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	464	475	487	rBV2	16973	61907	3.10%	0.578%
2	7.634	960	970	976	rBV	258435	609147	30.48%	5.691%
3	7.707	976	982	996	rVB	458817	1050388	52.57%	9.813%
4	8.061	1030	1040	1053	rBV	192806	431256	21.58%	4.029%
5	8.616	1122	1131	1148	rBV	763137	1493796	74.75%	13.955%
6	10.109	1368	1376	1391	rBV	1148157	1998260	100.00%	18.667%
7	10.512	1437	1442	1448	rBV2	11601	21552	1.08%	0.201%
8	11.414	1582	1590	1601	rBV	1083309	1717448	85.95%	16.044%
9	11.505	1601	1605	1613	rVB	11716	20906	1.05%	0.195%
10	12.408	1742	1753	1764	rBV2	997359	1868006	93.48%	17.451%
11	13.200	1875	1883	1889	rBV3	11353	22005	1.10%	0.206%
12	13.346	1896	1907	1913	rBV	829860	1322292	66.17%	12.353%
13	13.401	1913	1916	1922	rVB3	13988	24980	1.25%	0.233%
14	13.883	1989	1995	2010	rVB	32539	62608	3.13%	0.585%

Sum of corrected areas: 10704551

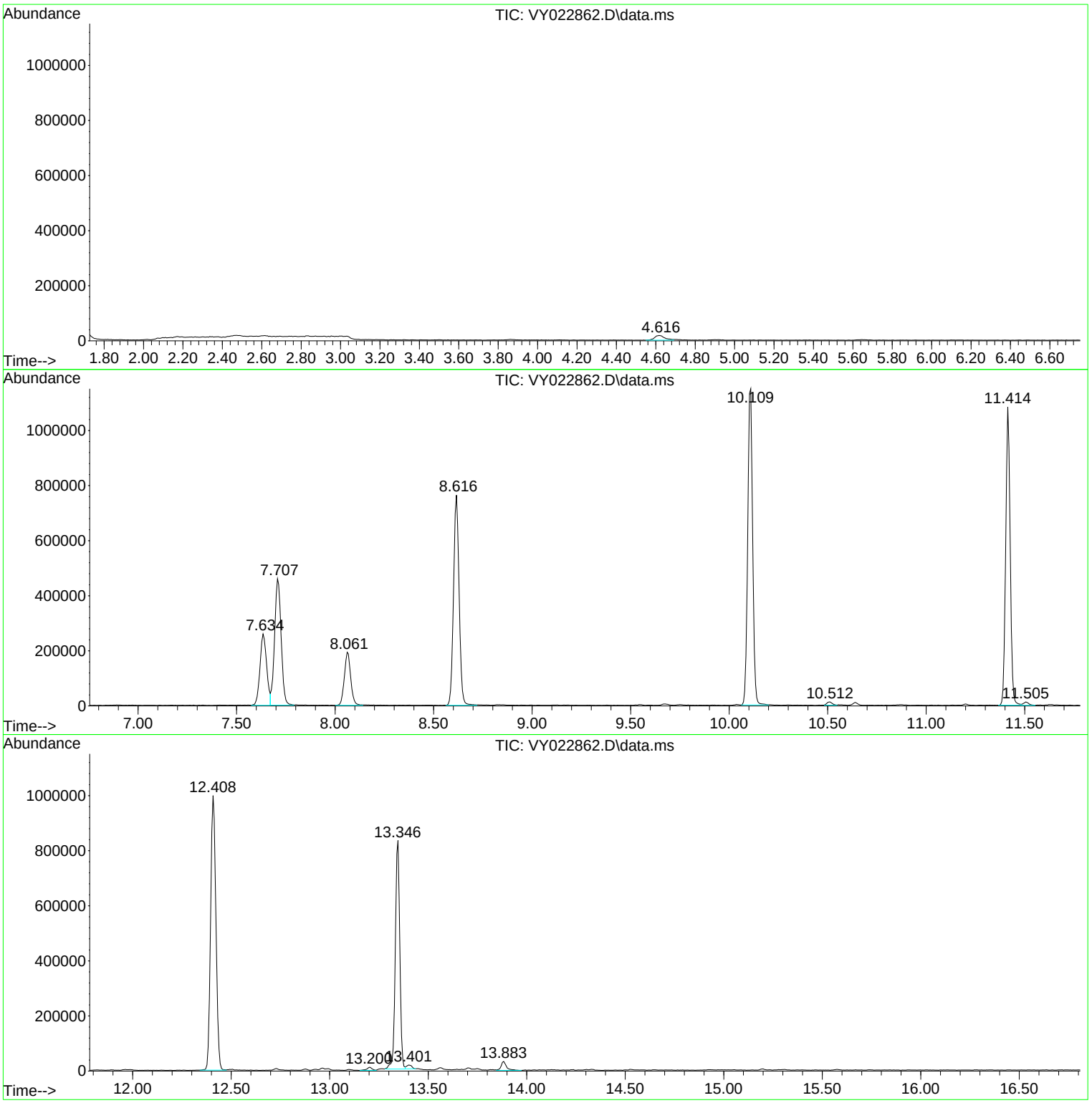
Sample Results: **VY022862.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022862.D
Acq On : 27 Jun 2025 15:19
Operator : SY/MD
Sample : Q2436-07
Misc : 6.71g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-87

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



Library Search Compound Report

Sample Results: **VY022862.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022862.D
Acq On : 27 Jun 2025 15:19
Operator : SY/MD
Sample : Q2436-07
Misc : 6.71g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-87

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\VY062725\
Data File : VY022862.D
Acq On : 27 Jun 2025 15:19
Operator : SY/MD
Sample : Q2436-07
Misc : 6.71g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-87

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

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

Raw Data: **VY022863.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.6
Sample Wt/Vol:	7.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022863.D	1		06/27/25 15:43	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.93	U	0.93	4.10	ug/Kg
74-87-3	Chloromethane	0.93	U	0.93	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.65	U	0.65	4.10	ug/Kg
74-83-9	Bromomethane	0.88	U	0.88	4.10	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.99	U	0.99	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.82	U	0.82	4.10	ug/Kg
67-64-1	Acetone	3.90	U	3.90	20.5	ug/Kg
75-15-0	Carbon Disulfide	0.87	U	0.87	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.60	U	0.60	4.10	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	3.40	J	2.90	8.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.10	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	20.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.79	U	0.79	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	4.10	ug/Kg
74-97-5	Bromochloromethane	0.94	U	0.94	4.10	ug/Kg
67-66-3	Chloroform	0.69	U	0.69	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.76	U	0.76	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.74	U	0.74	4.10	ug/Kg
71-43-2	Benzene	0.65	U	0.65	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
79-01-6	Trichloroethene	0.66	U	0.66	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.74	U	0.74	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.64	U	0.64	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	20.5	ug/Kg
108-88-3	Toluene	0.64	U	0.64	4.10	ug/Kg

Raw Data: **VY022863.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.6
Sample Wt/Vol:	7.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022863.D	1		06/27/25 15:43	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.53	U	0.53	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.51	U	0.51	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.75	U	0.75	4.10	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.5	ug/Kg
124-48-1	Dibromochloromethane	0.71	U	0.71	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.72	U	0.72	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.86	U	0.86	4.10	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.55	U	0.55	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.20	ug/Kg
95-47-6	o-Xylene	0.67	U	0.67	4.10	ug/Kg
100-42-5	Styrene	0.58	U	0.58	4.10	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.64	U	0.64	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.99	U	0.99	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.1		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	50.4		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.0		17 - 146	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	312000	7.707			
540-36-3	1,4-Difluorobenzene	578000	8.616			
3114-55-4	Chlorobenzene-d5	554000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	240000	13.346			

Raw Data: **VY022863.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.6
Sample Wt/Vol:	7.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022863.D	1		06/27/25 15:43	VY062725

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\VY062725\
Data File : VY022863.D
Acq On : 27 Jun 2025 15:43
Operator : SY/MD
Sample : Q2436-08
Misc : 7.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-100

Quant Time: Jun 27 23:19:35 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

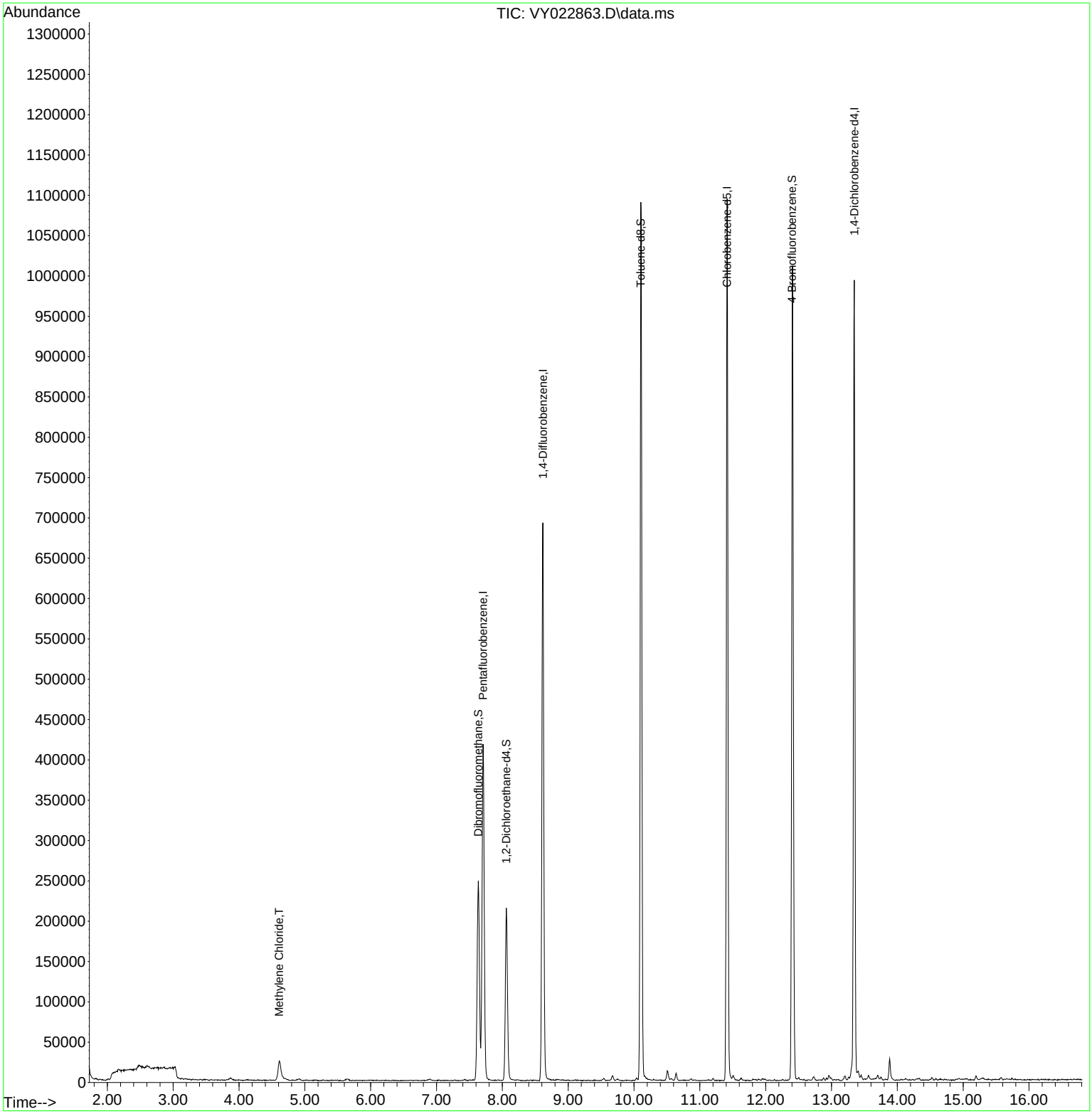
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	312427	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	578070	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	554007	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	240211	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	167771	48.113	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.220%			
35) Dibromofluoromethane	7.634	113	175524	49.928	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.860%			
50) Toluene-d8	10.103	98	703129	50.403	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.800%			
62) 4-Bromofluorobenzene	12.401	95	246795	55.032	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 110.060%			
Target Compounds						Qvalue
20) Methylene Chloride	4.610	84	17321	4.162	ug/l	95

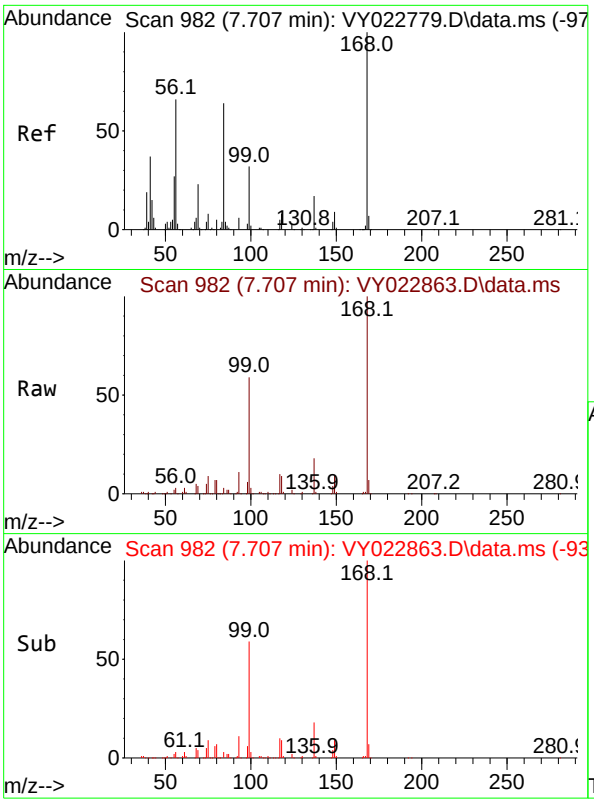
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022863.D
Acq On : 27 Jun 2025 15:43
Operator : SY/MD
Sample : Q2436-08
Misc : 7.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-100

Quant Time: Jun 27 23:19:35 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



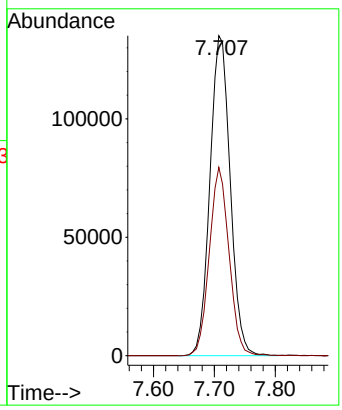


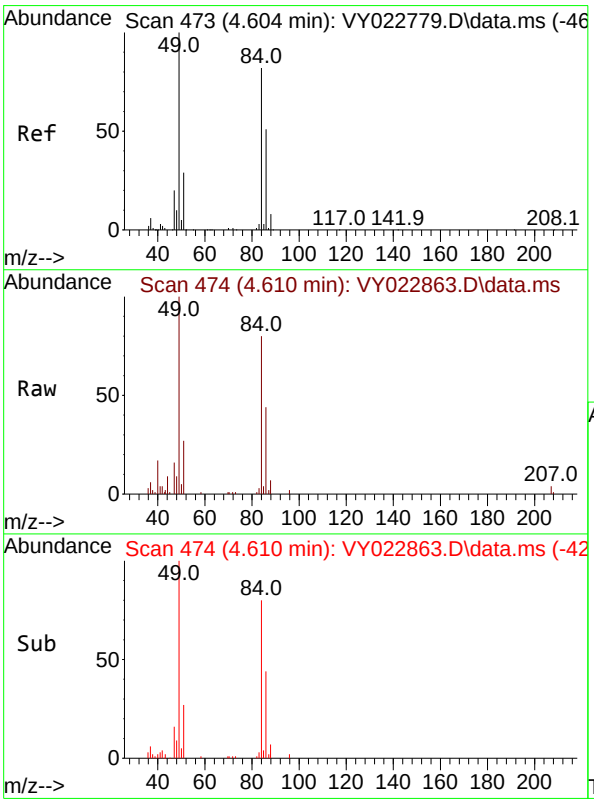
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022863.D
Acq: 27 Jun 2025 15:43

Instrument :
MSVOA_Y
ClientSampleId :
TP-100

Tgt Ion:168 Resp: 312427

Ion	Ratio	Lower	Upper
168	100		
99	58.9	44.3	66.5

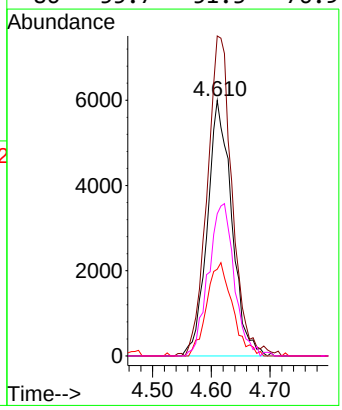


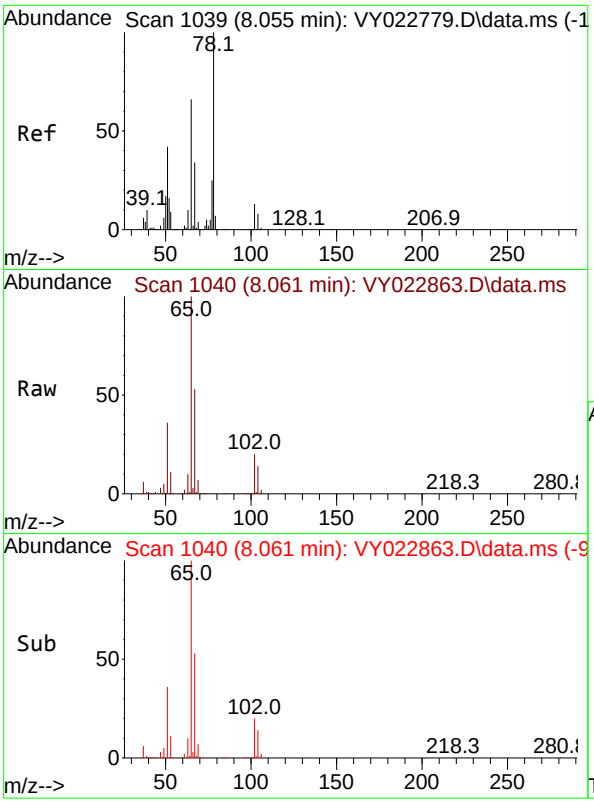


#20
Methylene Chloride
Concen: 4.162 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY022863.D
Acq: 27 Jun 2025 15:43

Tgt Ion: 84 Resp: 17321

Ion	Ratio	Lower	Upper
84	100		
49	124.3	101.9	152.9
51	33.9	29.8	44.8
86	55.7	51.3	76.9



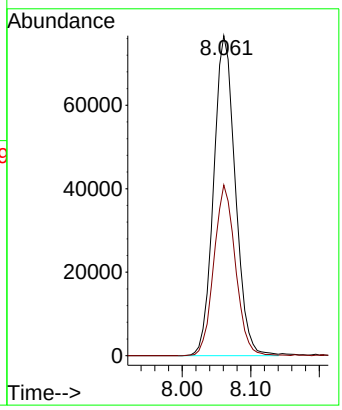


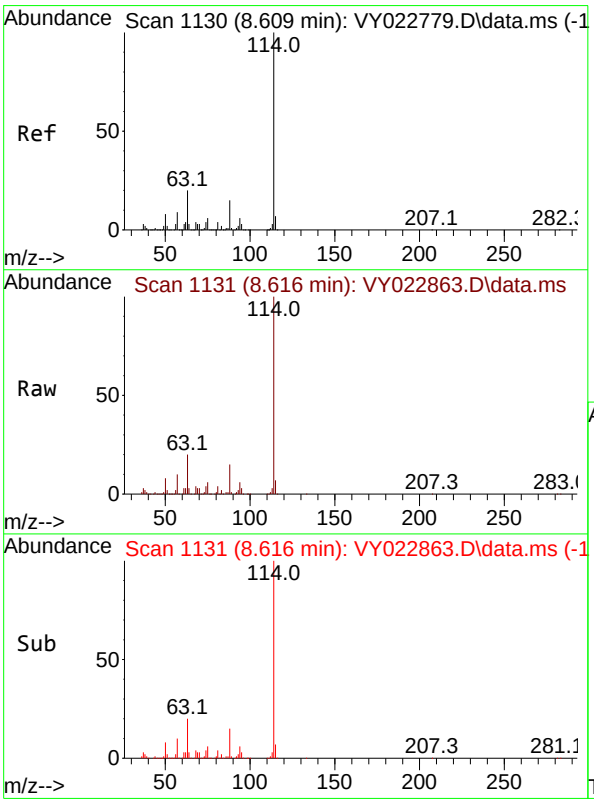
#33
1,2-Dichloroethane-d4
Concen: 48.113 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022863.D
Acq: 27 Jun 2025 15:43

Instrument :
MSVOA_Y
ClientSampleId :
TP-100

Tgt Ion: 65 Resp: 167771

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	103.4

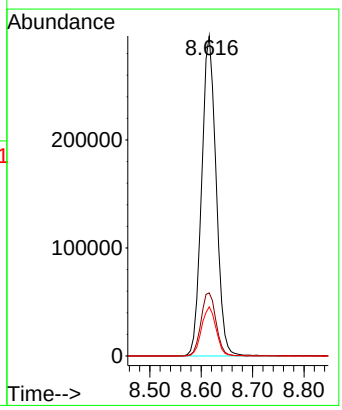


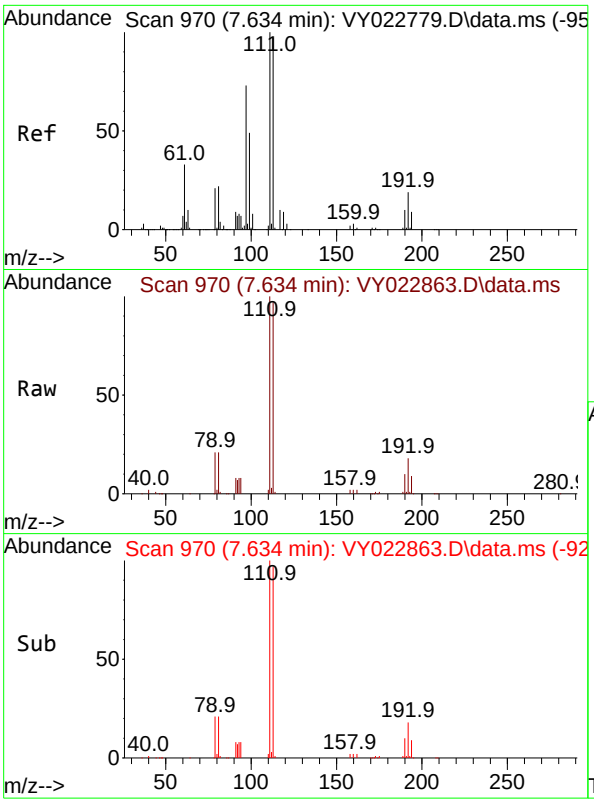


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022863.D
Acq: 27 Jun 2025 15:43

Tgt Ion:114 Resp: 578070

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.8
88	15.4	0.0	27.8



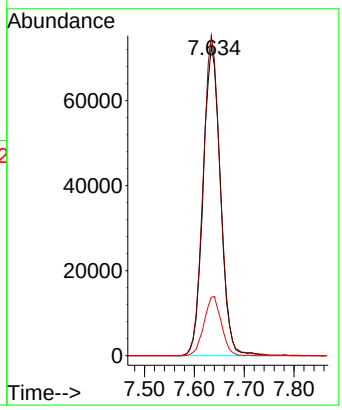


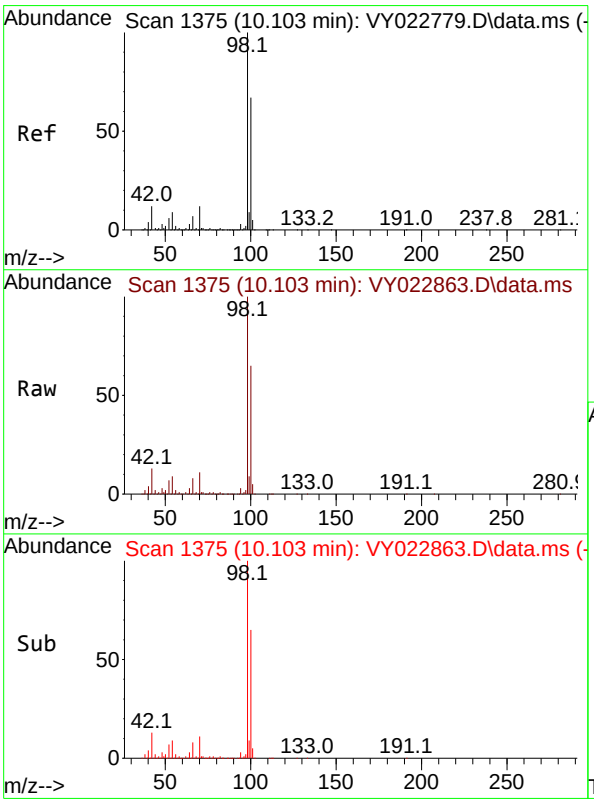
#35
Dibromofluoromethane
Concen: 49.928 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022863.D
Acq: 27 Jun 2025 15:43

Instrument :
MSVOA_Y
ClientSampleId :
TP-100

Tgt Ion:113 Resp: 175524

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.1	121.7
192	19.1	14.2	21.2

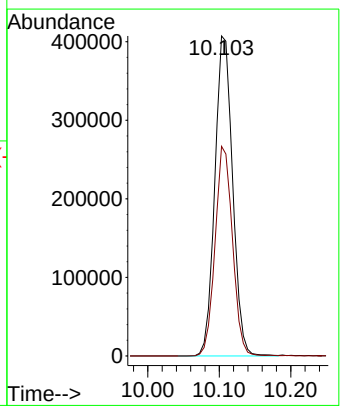


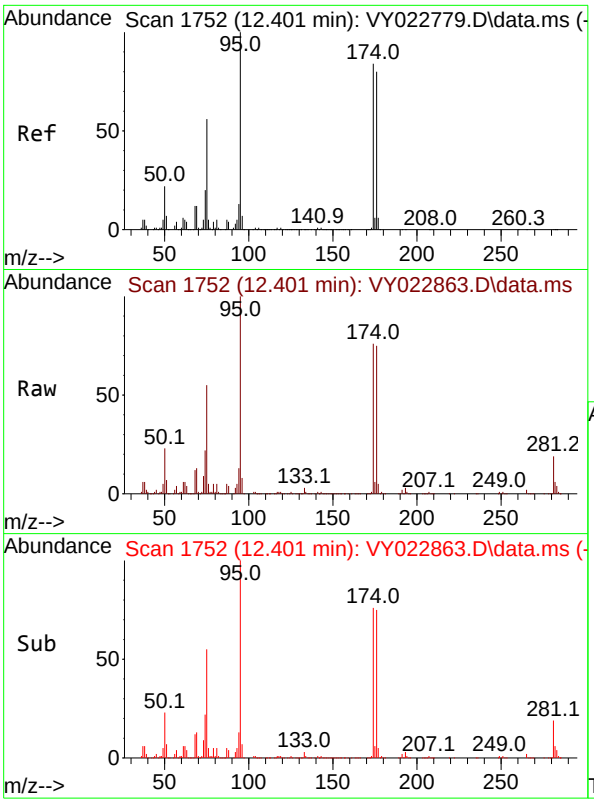


#50
Toluene-d8
Concen: 50.403 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022863.D
Acq: 27 Jun 2025 15:43

Tgt Ion: 98 Resp: 703129

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.4	77.0



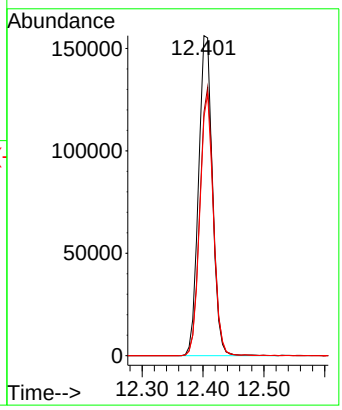


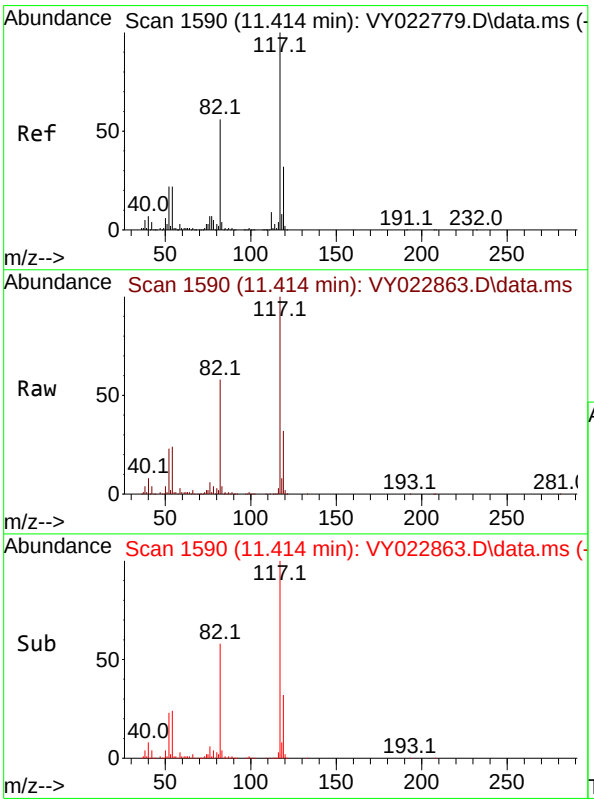
#62
4-Bromofluorobenzene
Concen: 55.032 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022863.D
Acq: 27 Jun 2025 15:43

Instrument :
MSVOA_Y
ClientSampleId :
TP-100

Tgt Ion: 95 Resp: 246795

Ion	Ratio	Lower	Upper
95	100		
174	82.5	0.0	170.0
176	79.7	0.0	166.2

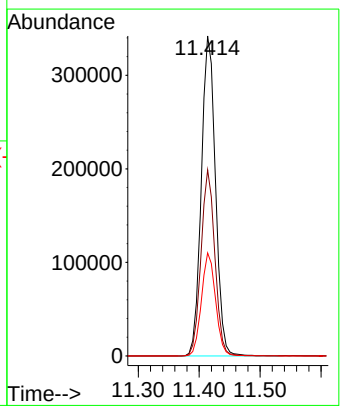


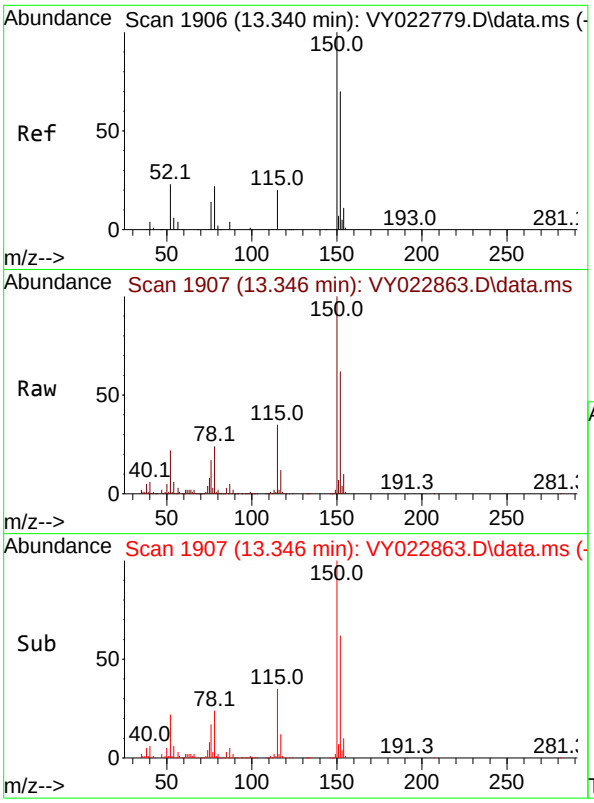


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022863.D
Acq: 27 Jun 2025 15:43

Tgt Ion:117 Resp: 554007

Ion	Ratio	Lower	Upper
117	100		
82	58.1	44.6	66.8
119	32.2	25.4	38.0



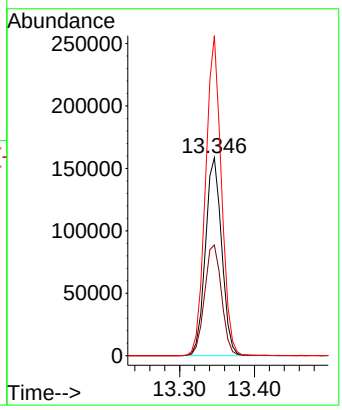


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022863.D
Acq: 27 Jun 2025 15:43

Instrument :
MSVOA_Y
ClientSampleId :
TP-100

Tgt Ion:152 Resp: 240211

Ion	Ratio	Lower	Upper
152	100		
115	58.1	28.9	86.7
150	156.9	0.0	349.6



Sample Results: **VY022863.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022863.D
Acq On : 27 Jun 2025 15:43
Operator : SY/MD
Sample : Q2436-08
Misc : 7.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-100

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: VY022863.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	487	rBV2	24002	79694	4.26%	0.756%
2	7.634	960	970	976	rBV	247101	593628	31.71%	5.630%
3	7.707	976	982	996	rVB	416388	949421	50.71%	9.004%
4	8.061	1029	1040	1056	rBV	214023	482166	25.75%	4.573%
5	8.616	1122	1131	1145	rBV	692084	1373045	73.34%	13.022%
6	10.103	1368	1375	1384	rBV	1088048	1872202	100.00%	17.756%
7	10.505	1436	1441	1447	rBV	11932	22716	1.21%	0.215%
8	11.414	1581	1590	1601	rBV	1093572	1771044	94.60%	16.797%
9	12.408	1742	1753	1762	rBV2	1009731	1801163	96.21%	17.082%
10	13.346	1895	1907	1913	rBV	989326	1550188	82.80%	14.702%
11	13.883	1990	1995	2009	rVB2	26725	48662	2.60%	0.462%

Sum of corrected areas: 10543929

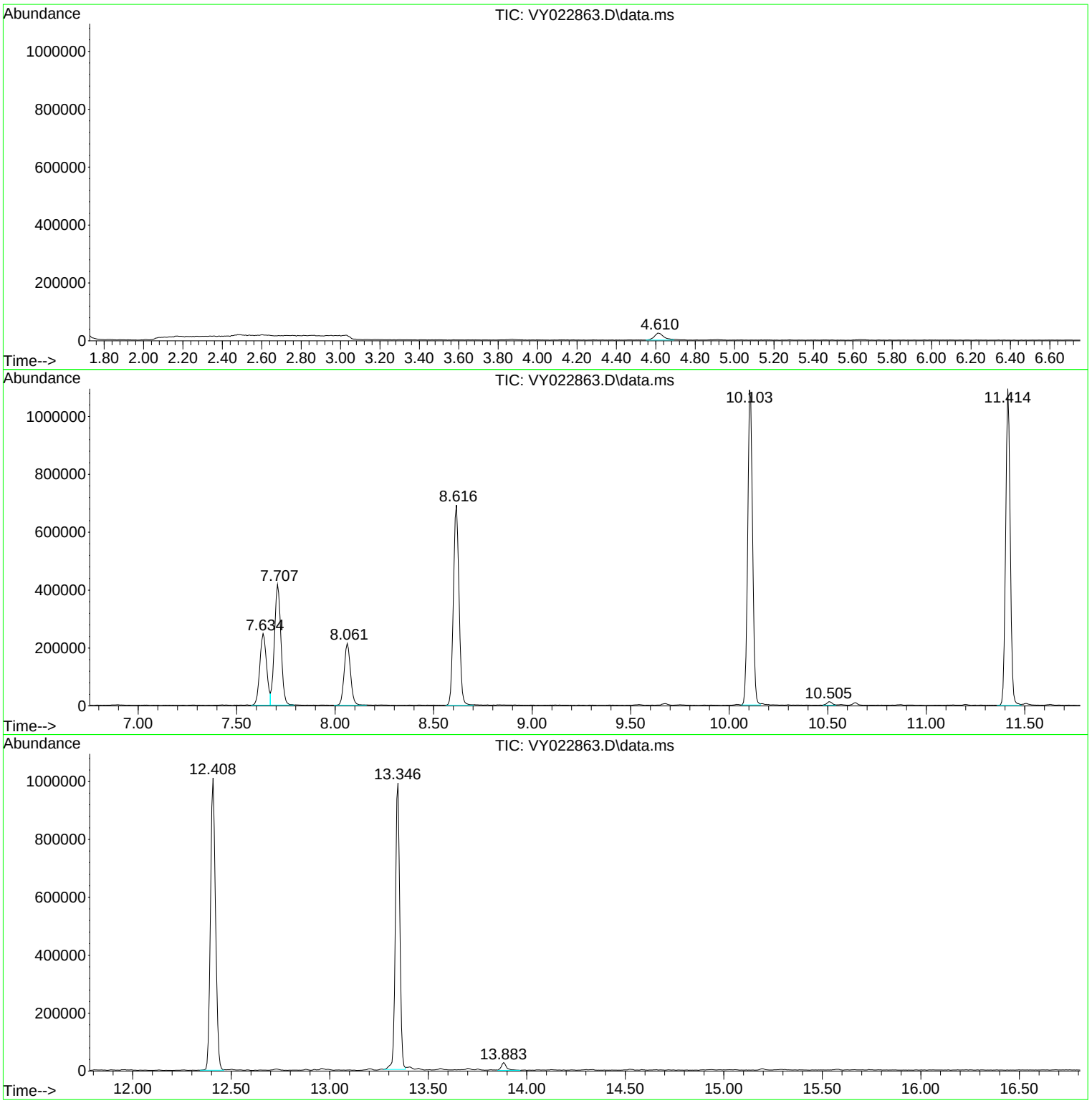
Sample Results: **VY022863.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022863.D
Acq On : 27 Jun 2025 15:43
Operator : SY/MD
Sample : Q2436-08
Misc : 7.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-100

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



Library Search Compound Report

Sample Results: **VY022863.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022863.D
Acq On : 27 Jun 2025 15:43
Operator : SY/MD
Sample : Q2436-08
Misc : 7.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-100

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\VY062725\
Data File : VY022863.D
Acq On : 27 Jun 2025 15:43
Operator : SY/MD
Sample : Q2436-08
Misc : 7.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-100

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

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

Raw Data: **VY022864.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.2
Sample Wt/Vol:	5.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022864.D	1		06/27/25 16:06	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.90	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.90	ug/Kg
75-01-4	Vinyl Chloride	0.78	U	0.78	4.90	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	4.90	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.90	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	4.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.99	U	0.99	4.90	ug/Kg
67-64-1	Acetone	4.70	U	4.70	24.7	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.72	U	0.72	4.90	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.90	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	9.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.85	U	0.85	4.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.79	U	0.79	4.90	ug/Kg
110-82-7	Cyclohexane	0.78	U	0.78	4.90	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	24.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.96	U	0.96	4.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.74	U	0.74	4.90	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.90	ug/Kg
67-66-3	Chloroform	0.83	U	0.83	4.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.92	U	0.92	4.90	ug/Kg
108-87-2	Methylcyclohexane	0.90	U	0.90	4.90	ug/Kg
71-43-2	Benzene	0.78	U	0.78	4.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.78	U	0.78	4.90	ug/Kg
79-01-6	Trichloroethene	0.80	U	0.80	4.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.90	U	0.90	4.90	ug/Kg
75-27-4	Bromodichloromethane	0.77	U	0.77	4.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	24.7	ug/Kg
108-88-3	Toluene	0.77	U	0.77	4.90	ug/Kg

Raw Data: **VY022864.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.2
Sample Wt/Vol:	5.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022864.D	1		06/27/25 16:06	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.64	U	0.64	4.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.61	U	0.61	4.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.91	U	0.91	4.90	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	24.7	ug/Kg
124-48-1	Dibromochloromethane	0.86	U	0.86	4.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.87	U	0.87	4.90	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	4.90	ug/Kg
108-90-7	Chlorobenzene	0.90	U	0.90	4.90	ug/Kg
100-41-4	Ethyl Benzene	0.66	U	0.66	4.90	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.90	ug/Kg
95-47-6	o-Xylene	0.81	U	0.81	4.90	ug/Kg
100-42-5	Styrene	0.70	U	0.70	4.90	ug/Kg
75-25-2	Bromoform	0.85	U	0.85	4.90	ug/Kg
98-82-8	Isopropylbenzene	0.77	U	0.77	4.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	4.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	4.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	4.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.90	U	2.90	4.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.10	U	3.10	4.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.0		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		17 - 146	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	301000	7.713			
540-36-3	1,4-Difluorobenzene	558000	8.616			
3114-55-4	Chlorobenzene-d5	537000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	231000	13.346			

Raw Data: **VY022864.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.2
Sample Wt/Vol:	5.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022864.D	1		06/27/25 16:06	VY062725

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\VY062725\
Data File : VY022864.D
Acq On : 27 Jun 2025 16:06
Operator : SY/MD
Sample : Q2436-09
Misc : 5.48g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-99

Quant Time: Jun 27 23:19:56 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	7.713	168	301121	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	558142	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	536522	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	230605	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	168750	50.211	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.420%			
35) Dibromofluoromethane	7.634	113	172035	50.683	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.360%			
50) Toluene-d8	10.109	98	673924	50.034	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.060%			
62) 4-Bromofluorobenzene	12.402	95	234963	54.265	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 108.520%			

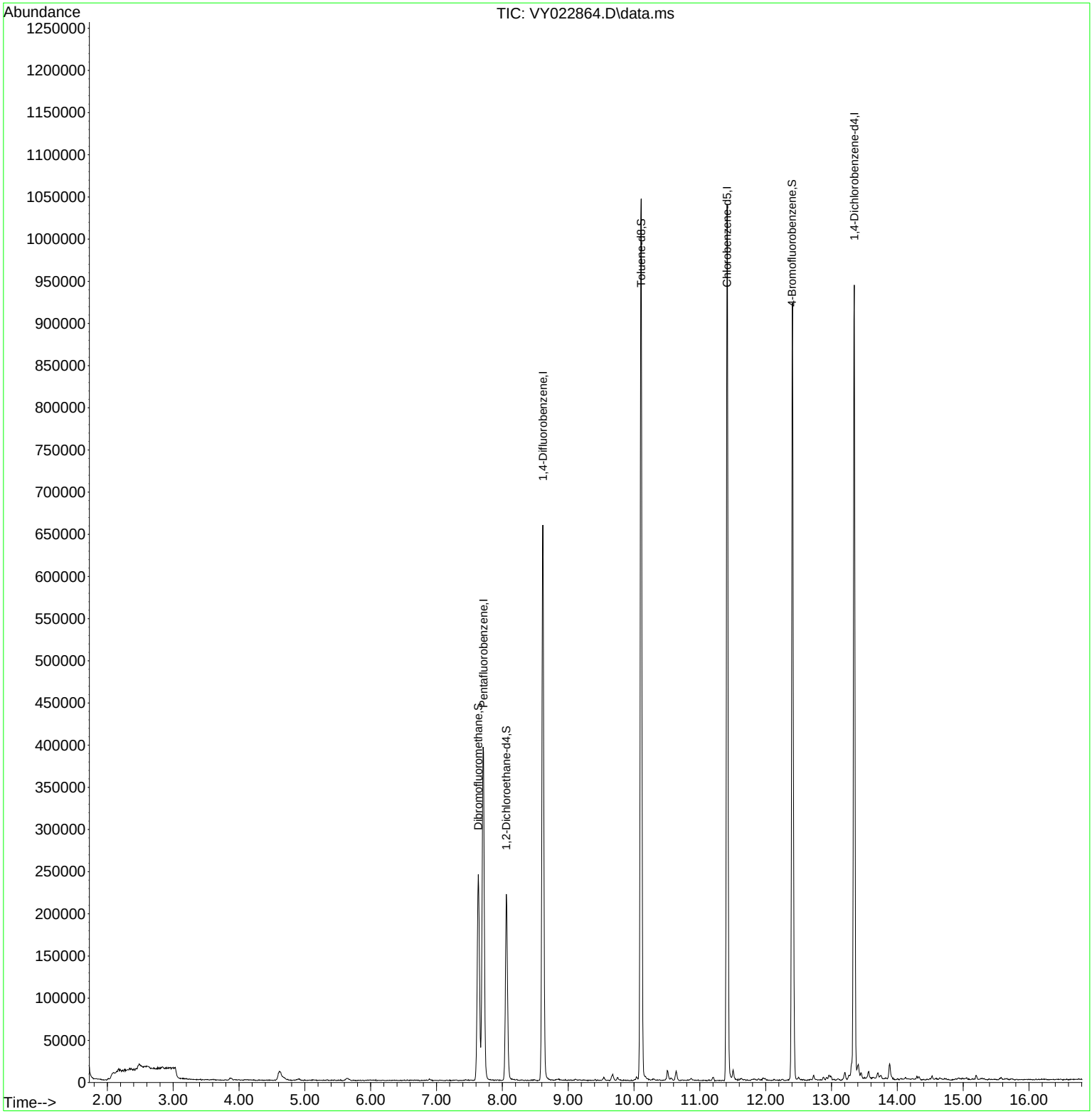
Target Compounds Qvalue

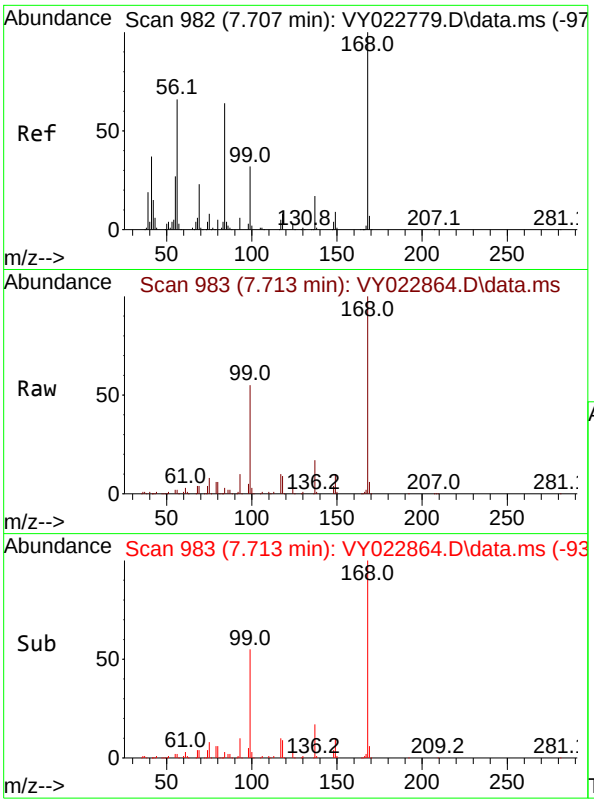
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022864.D
Acq On : 27 Jun 2025 16:06
Operator : SY/MD
Sample : Q2436-09
Misc : 5.48g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-99

Quant Time: Jun 27 23:19:56 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



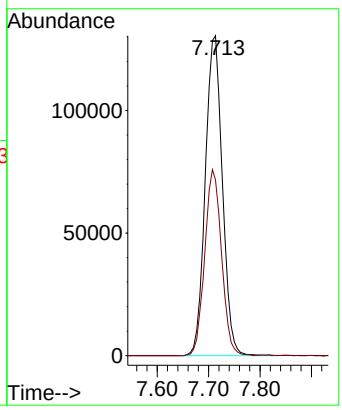


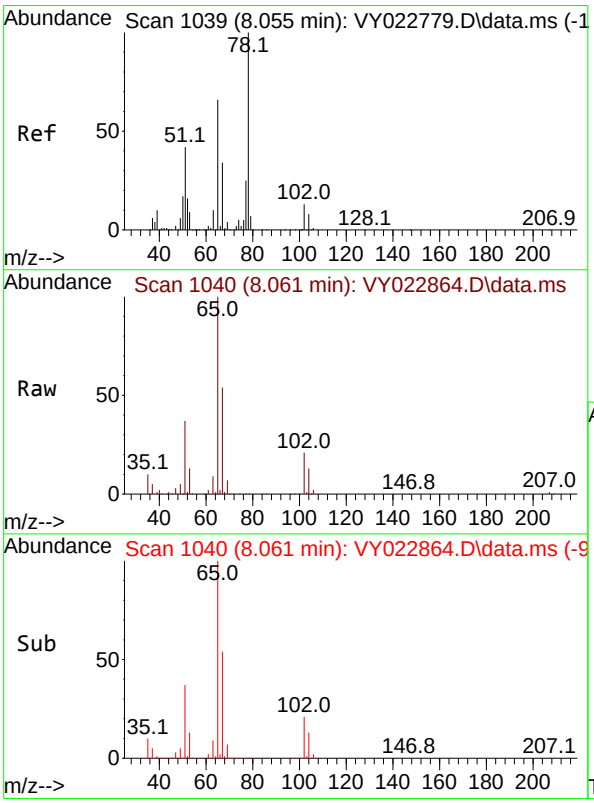
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022864.D
Acq: 27 Jun 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-99

Tgt Ion:168 Resp: 301121

Ion	Ratio	Lower	Upper
168	100		
99	55.0	44.3	66.5

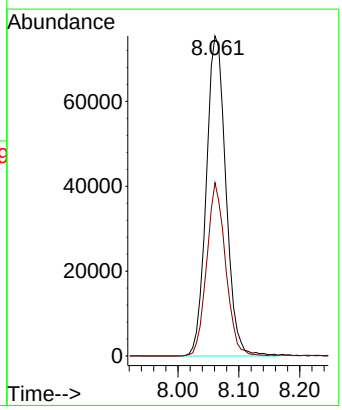


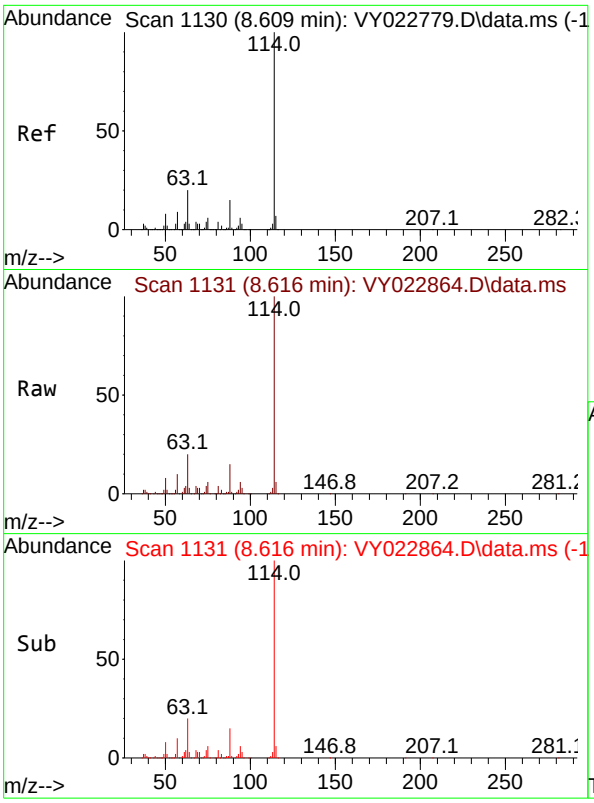


#33
1,2-Dichloroethane-d4
Concen: 50.211 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022864.D
Acq: 27 Jun 2025 16:06

Tgt Ion: 65 Resp: 168750

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.4



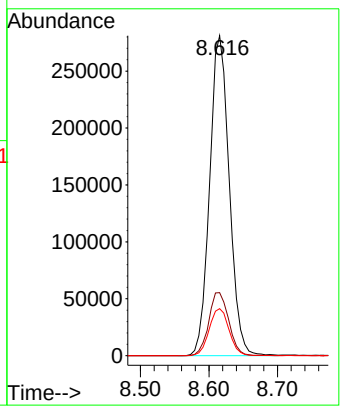


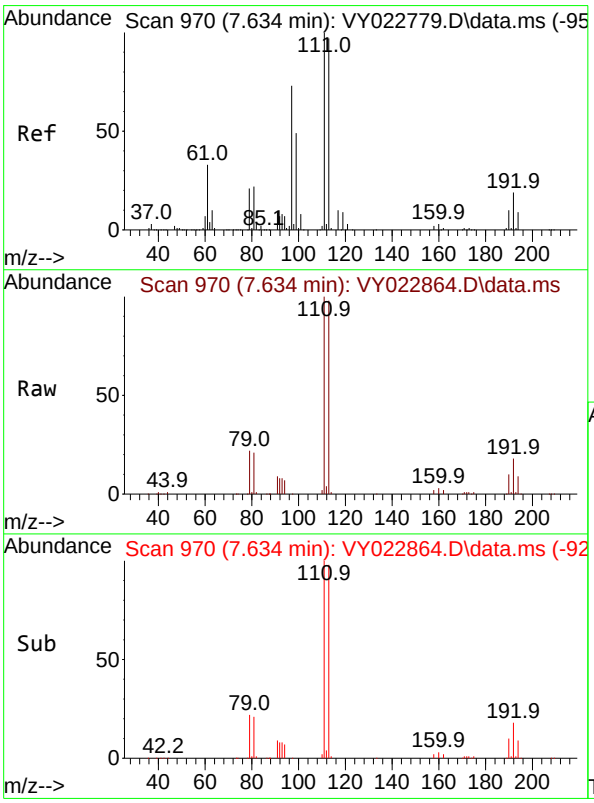
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022864.D
Acq: 27 Jun 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-99

Tgt Ion:114 Resp: 558142

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.8
88	14.7	0.0	27.8

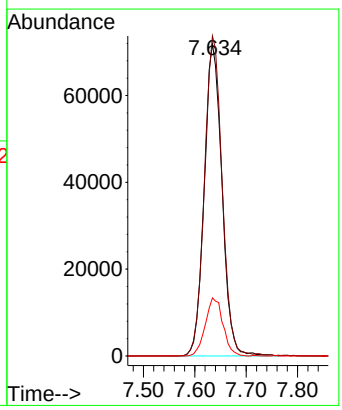


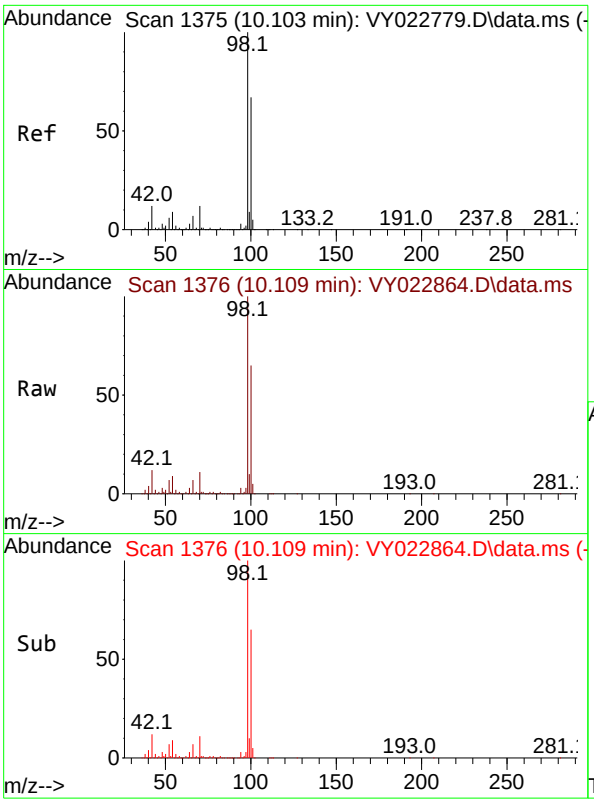


#35
Dibromofluoromethane
Concen: 50.683 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022864.D
Acq: 27 Jun 2025 16:06

Tgt Ion:113 Resp: 172035

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.1	121.7
192	18.6	14.2	21.2



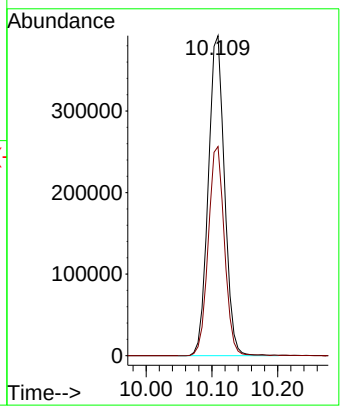


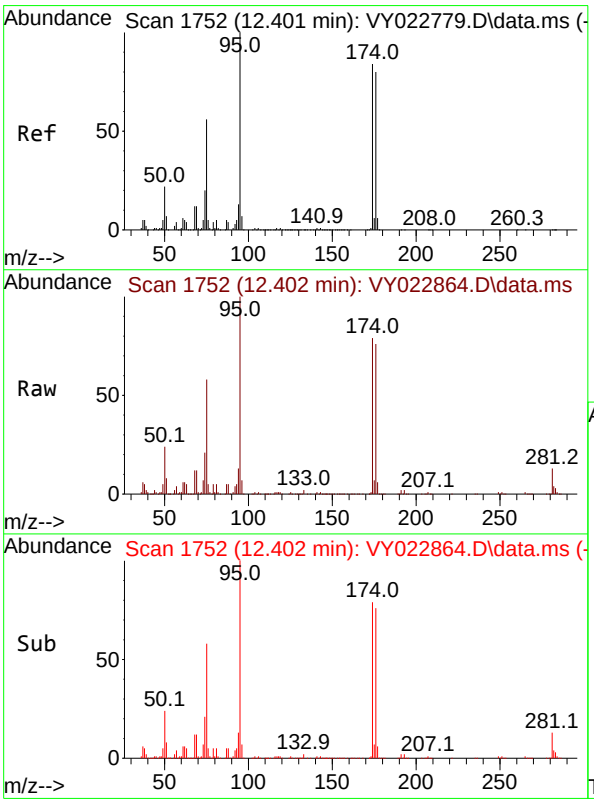
#50
Toluene-d8
Concen: 50.034 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022864.D
Acq: 27 Jun 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-99

Tgt Ion: 98 Resp: 673924

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.4	77.0

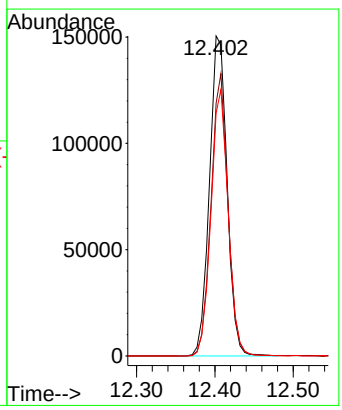


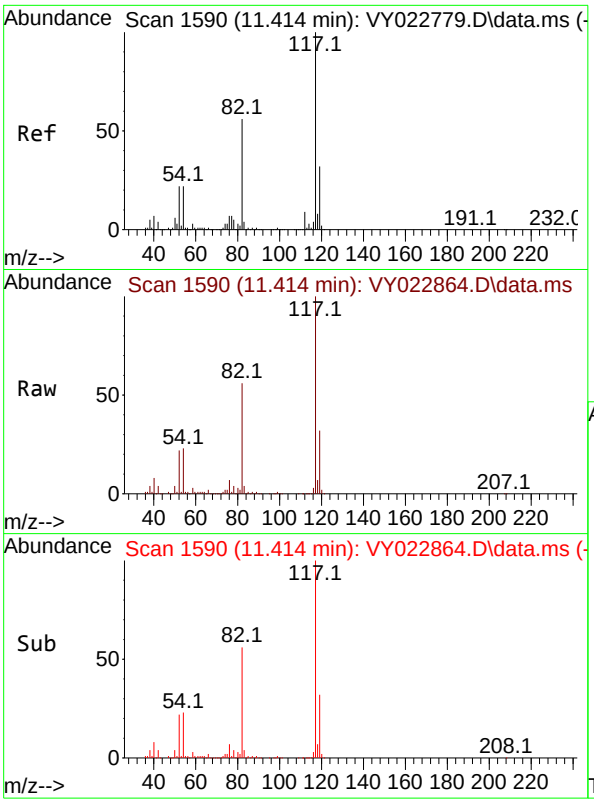


#62
4-Bromofluorobenzene
Concen: 54.265 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022864.D
Acq: 27 Jun 2025 16:06

Tgt Ion: 95 Resp: 234963

Ion	Ratio	Lower	Upper
95	100		
174	84.5	0.0	170.0
176	81.3	0.0	166.2



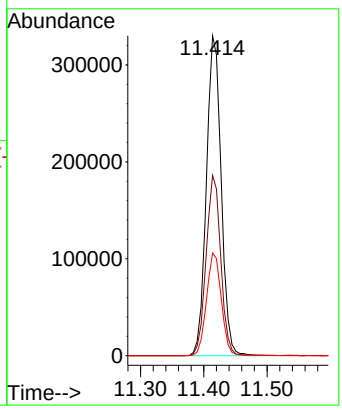


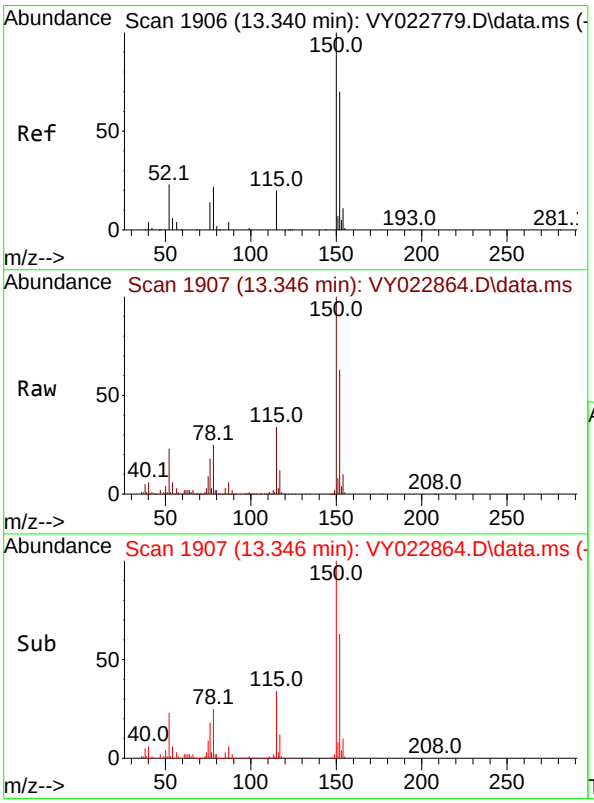
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022864.D
Acq: 27 Jun 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-99

Tgt Ion:117 Resp: 536522

Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.6	66.8
119	32.1	25.4	38.0

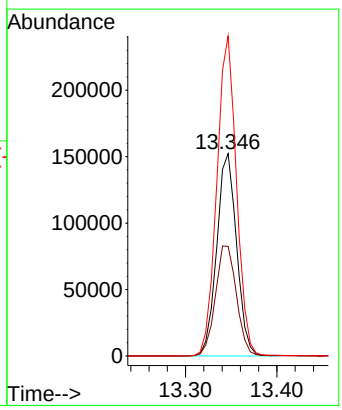




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022864.D
Acq: 27 Jun 2025 16:06

Tgt Ion:152 Resp: 230605

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.9	86.7
150	156.5	0.0	349.6



Sample Results: **VY022864.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022864.D
Acq On : 27 Jun 2025 16:06
Operator : SY/MD
Sample : Q2436-09
Misc : 5.48g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-99

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: VY022864.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	52	61	64	rBV5	7324	22127	1.23%	0.220%
2	4.610	465	474	475	rBV4	10759	19900	1.10%	0.198%
3	7.634	960	970	976	rBV	244064	574642	31.90%	5.713%
4	7.707	976	982	999	rVB	394897	919714	51.05%	9.143%
5	8.061	1028	1040	1053	rBV	220927	483280	26.83%	4.804%
6	8.616	1123	1131	1145	rBV	658148	1313275	72.90%	13.055%
7	10.109	1368	1376	1386	rBV	1043758	1801481	100.00%	17.908%
8	10.506	1436	1441	1447	rBV2	11334	19500	1.08%	0.194%
9	10.640	1456	1463	1471	rVB2	11348	20490	1.14%	0.204%
10	11.414	1583	1590	1601	rBV	1039541	1700533	94.40%	16.905%
11	11.505	1601	1605	1612	rVB2	11749	20181	1.12%	0.201%
12	12.408	1742	1753	1763	rBV2	921853	1602928	88.98%	15.935%
13	13.200	1873	1883	1889	rBV4	9524	20377	1.13%	0.203%
14	13.346	1896	1907	1913	rBV	938000	1477049	81.99%	14.683%
15	13.407	1913	1917	1921	rVV2	15547	29298	1.63%	0.291%
16	13.883	1989	1995	2003	rVB2	18114	34591	1.92%	0.344%

Sum of corrected areas: 10059366

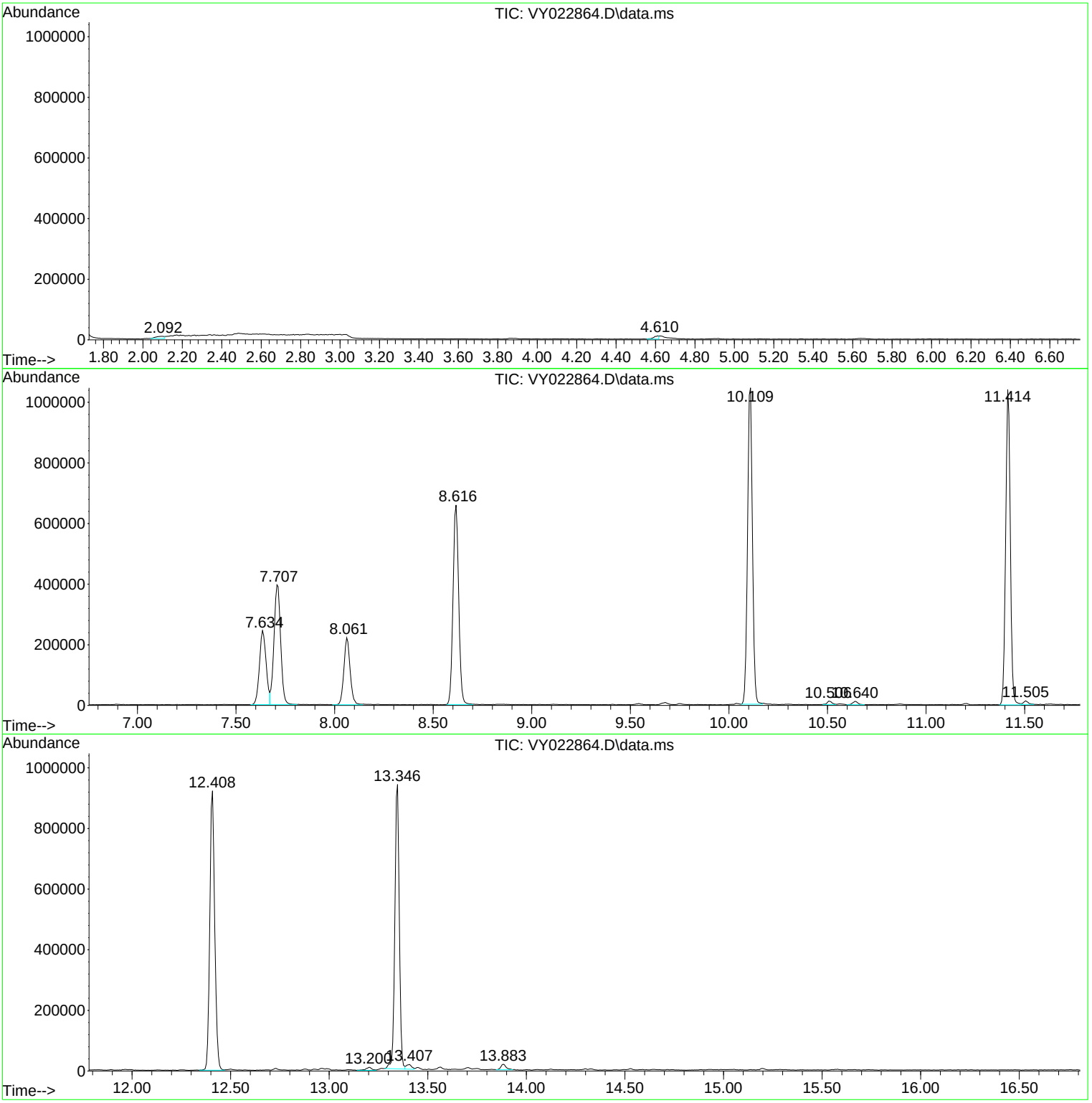
Sample Results: **VY022864.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022864.D
Acq On : 27 Jun 2025 16:06
Operator : SY/MD
Sample : Q2436-09
Misc : 5.48g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-99

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



Library Search Compound Report

Sample Results: **VY022864.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022864.D
Acq On : 27 Jun 2025 16:06
Operator : SY/MD
Sample : Q2436-09
Misc : 5.48g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-99

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\VY062725\
Data File : VY022864.D
Acq On : 27 Jun 2025 16:06
Operator : SY/MD
Sample : Q2436-09
Misc : 5.48g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-99

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

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

Raw Data: **VY022865.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	5.75 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022865.D	1		06/27/25 16:30	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.75	U	0.75	4.70	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.95	U	0.95	4.70	ug/Kg
67-64-1	Acetone	4.50	U	4.50	23.6	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.69	U	0.69	4.70	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.70	ug/Kg
75-09-2	Methylene Chloride	3.60	J	3.30	9.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.81	U	0.81	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.76	U	0.76	4.70	ug/Kg
110-82-7	Cyclohexane	0.75	U	0.75	4.70	ug/Kg
78-93-3	2-Butanone	6.20	U	6.20	23.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.92	U	0.92	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.71	U	0.71	4.70	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.70	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.88	U	0.88	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.86	U	0.86	4.70	ug/Kg
71-43-2	Benzene	0.75	U	0.75	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.75	U	0.75	4.70	ug/Kg
79-01-6	Trichloroethene	0.77	U	0.77	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.86	U	0.86	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.74	U	0.74	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	23.6	ug/Kg
108-88-3	Toluene	0.74	U	0.74	4.70	ug/Kg

Raw Data: **VY022865.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	5.75 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022865.D	1		06/27/25 16:30	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.59	U	0.59	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	23.6	ug/Kg
124-48-1	Dibromochloromethane	0.82	U	0.82	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.83	U	0.83	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.99	U	0.99	4.70	ug/Kg
108-90-7	Chlorobenzene	0.86	U	0.86	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.50	ug/Kg
95-47-6	o-Xylene	0.78	U	0.78	4.70	ug/Kg
100-42-5	Styrene	0.67	U	0.67	4.70	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.74	U	0.74	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.5		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		17 - 146	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	319000	7.707			
540-36-3	1,4-Difluorobenzene	604000	8.615			
3114-55-4	Chlorobenzene-d5	583000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	251000	13.346			

Raw Data: **VY022865.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	5.75 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022865.D	1		06/27/25 16:30	VY062725

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\VY062725\
Data File : VY022865.D
Acq On : 27 Jun 2025 16:30
Operator : SY/MD
Sample : Q2436-10
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-82

Quant Time: Jun 27 23:20:18 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

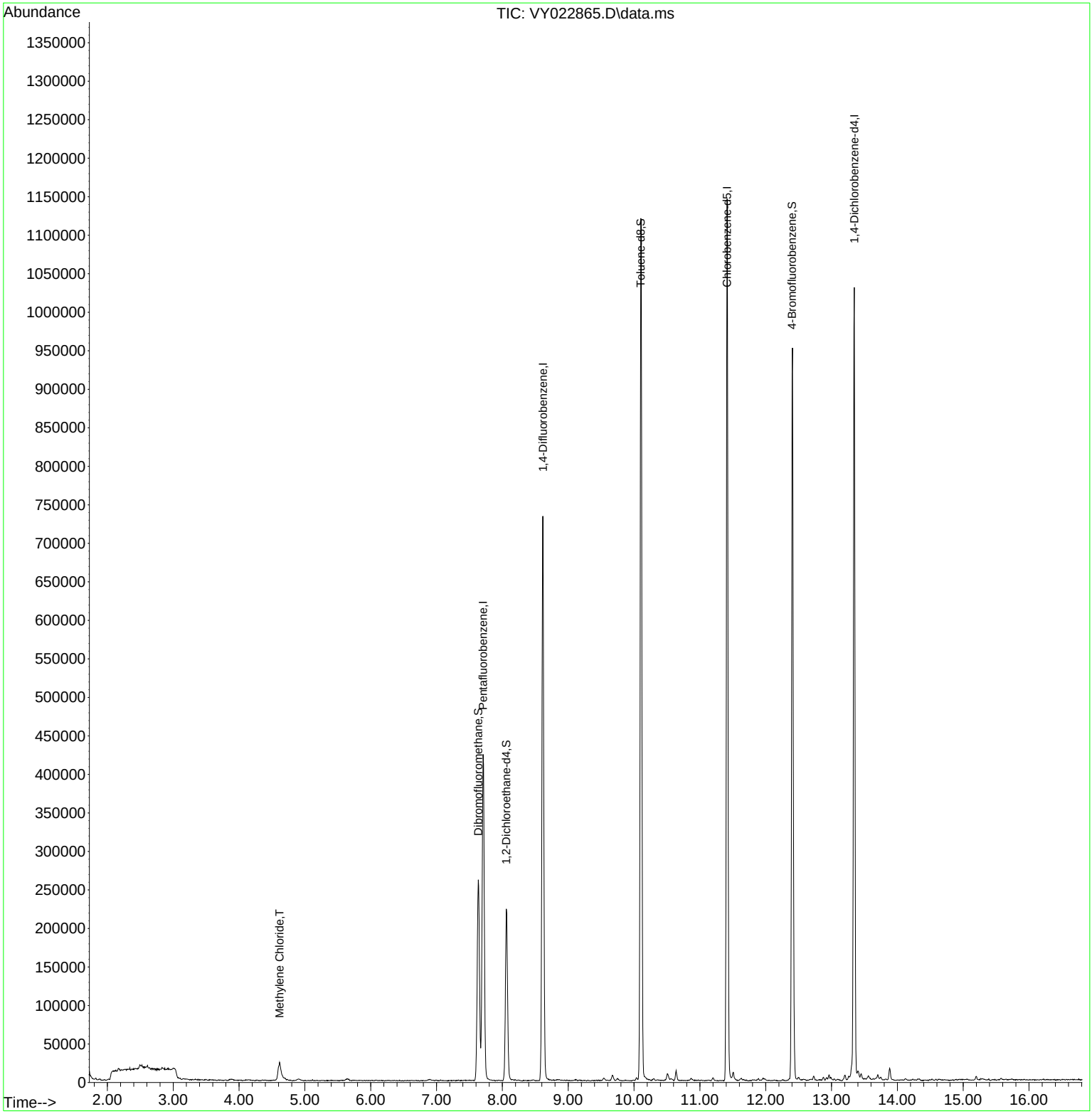
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	318610	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	604014	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	582898	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	250591	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	174126	48.967	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.940%			
35) Dibromofluoromethane	7.634	113	185645	50.539	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.080%			
50) Toluene-d8	10.103	98	736505	50.528	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.060%			
62) 4-Bromofluorobenzene	12.401	95	256053	54.644	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 109.280%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	16196	3.816	ug/l	93

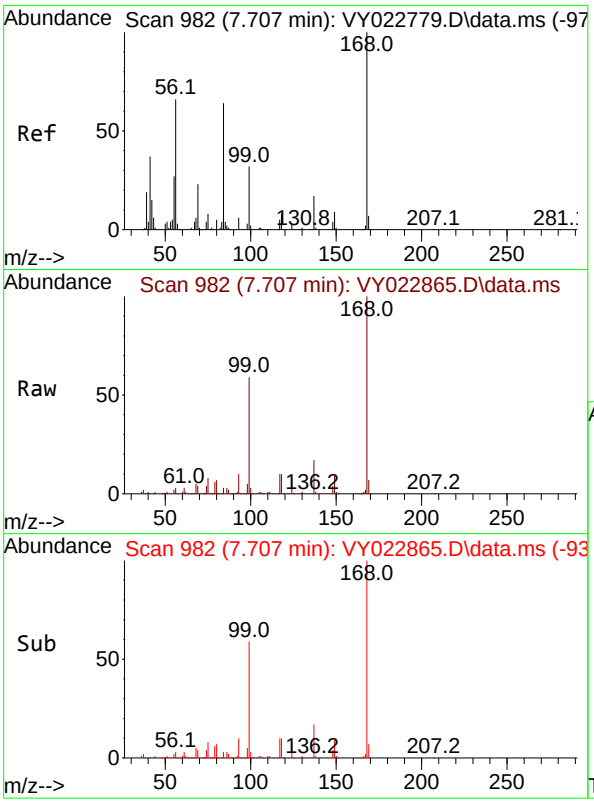
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022865.D
Acq On : 27 Jun 2025 16:30
Operator : SY/MD
Sample : Q2436-10
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-82

Quant Time: Jun 27 23:20:18 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



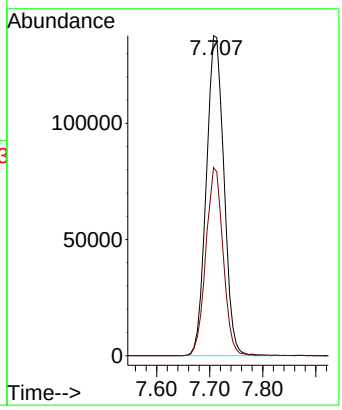


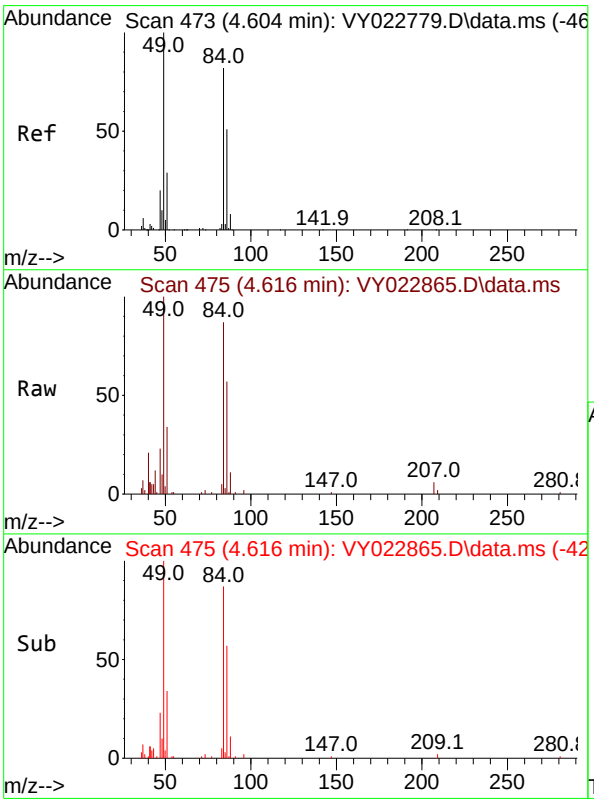
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022865.D
Acq: 27 Jun 2025 16:30

Instrument :
MSVOA_Y
ClientSampleId :
TP-82

Tgt Ion:168 Resp: 318610

Ion	Ratio	Lower	Upper
168	100		
99	58.8	44.3	66.5

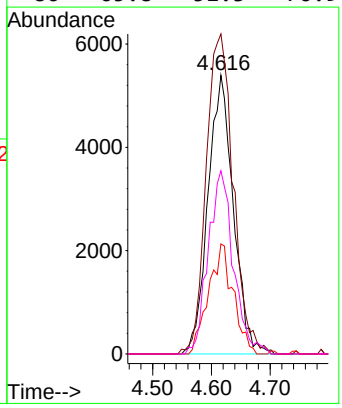


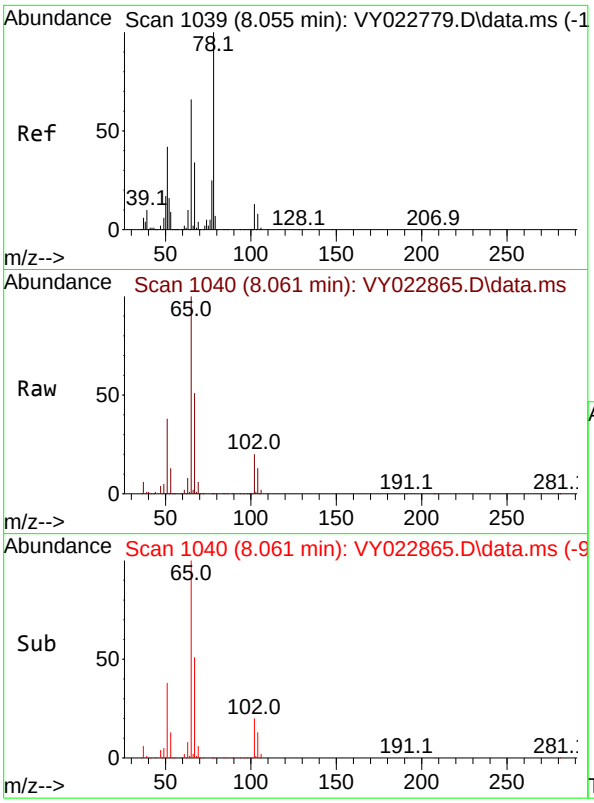


#20
Methylene Chloride
Concen: 3.816 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022865.D
Acq: 27 Jun 2025 16:30

Tgt Ion: 84 Resp: 16196

Ion	Ratio	Lower	Upper
84	100		
49	114.8	101.9	152.9
51	39.5	29.8	44.8
86	65.8	51.3	76.9



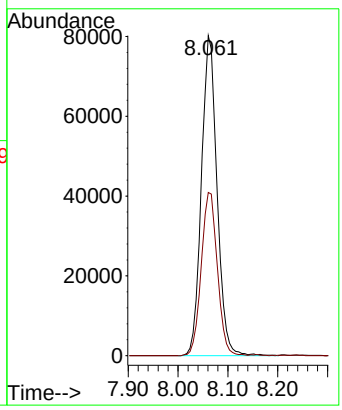


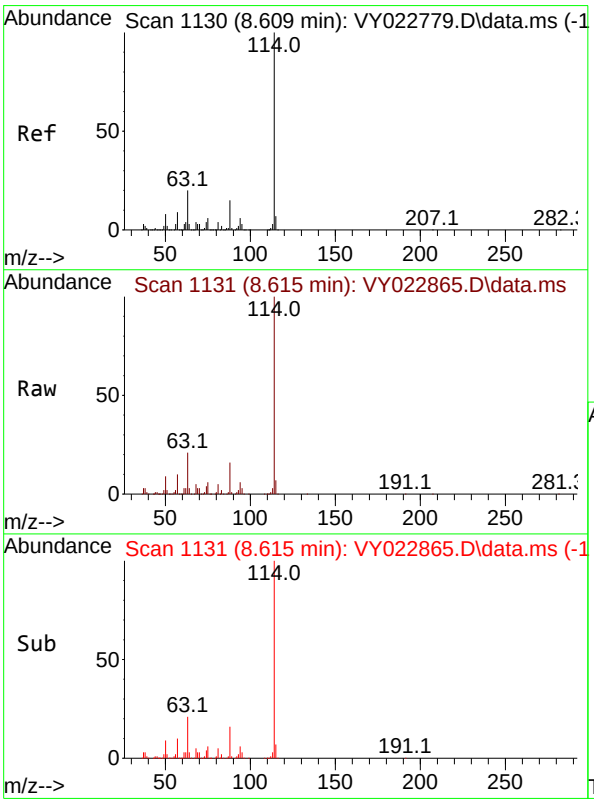
#33
1,2-Dichloroethane-d4
Concen: 48.967 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022865.D
Acq: 27 Jun 2025 16:30

Instrument :
MSVOA_Y
ClientSampleId :
TP-82

Tgt Ion: 65 Resp: 174126

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.4

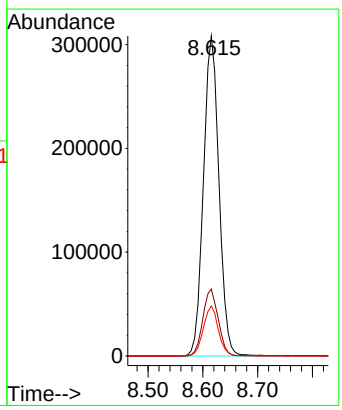


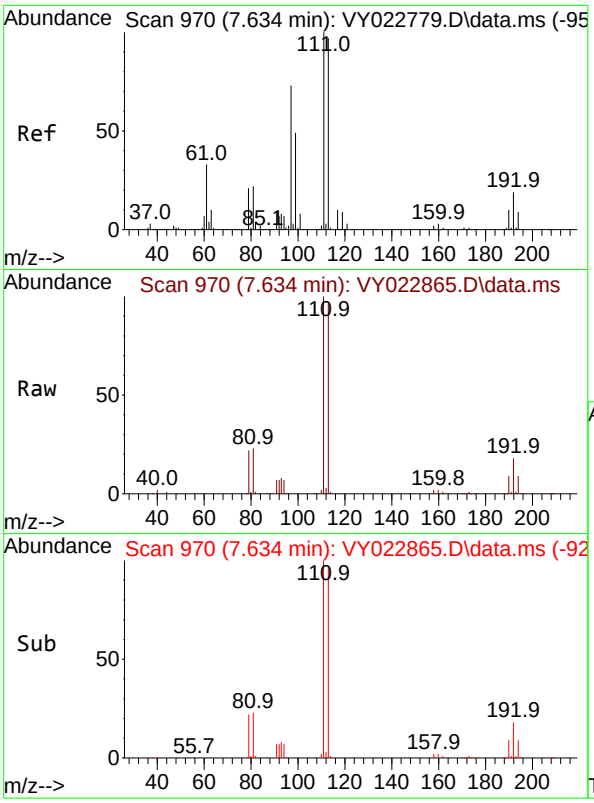


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022865.D
Acq: 27 Jun 2025 16:30

Tgt Ion:114 Resp: 604014

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.8
88	15.6	0.0	27.8



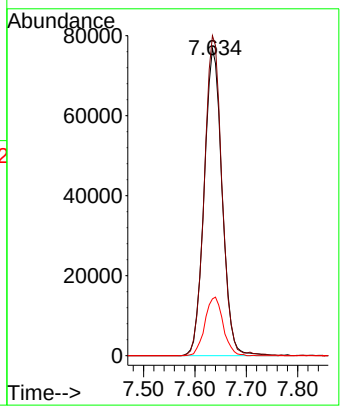


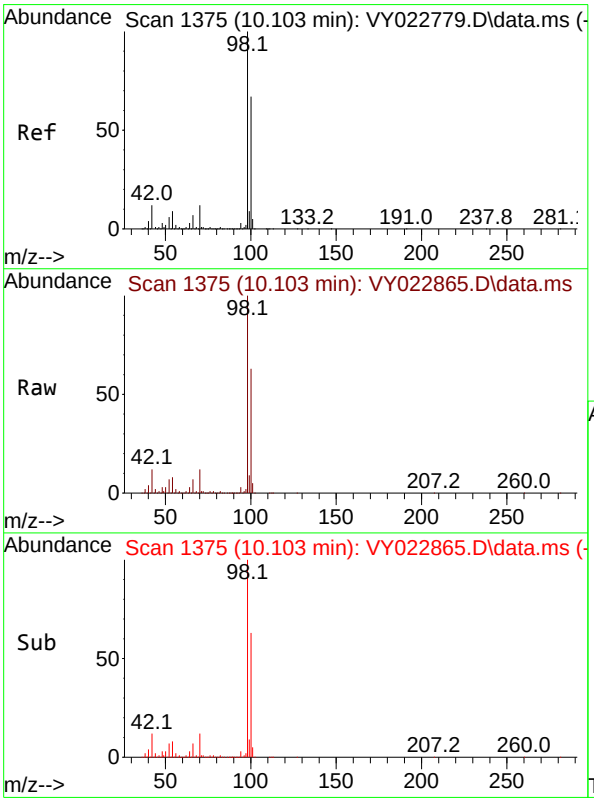
#35
Dibromofluoromethane
Concen: 50.539 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022865.D
Acq: 27 Jun 2025 16:30

Instrument :
MSVOA_Y
ClientSampleId :
TP-82

Tgt Ion:113 Resp: 185645

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.1	121.7
192	19.4	14.2	21.2

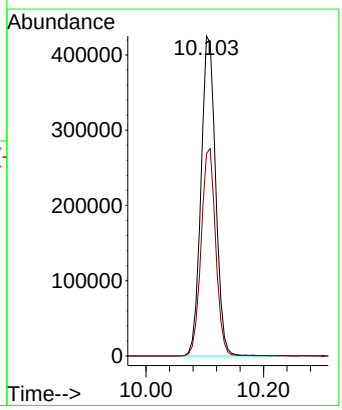


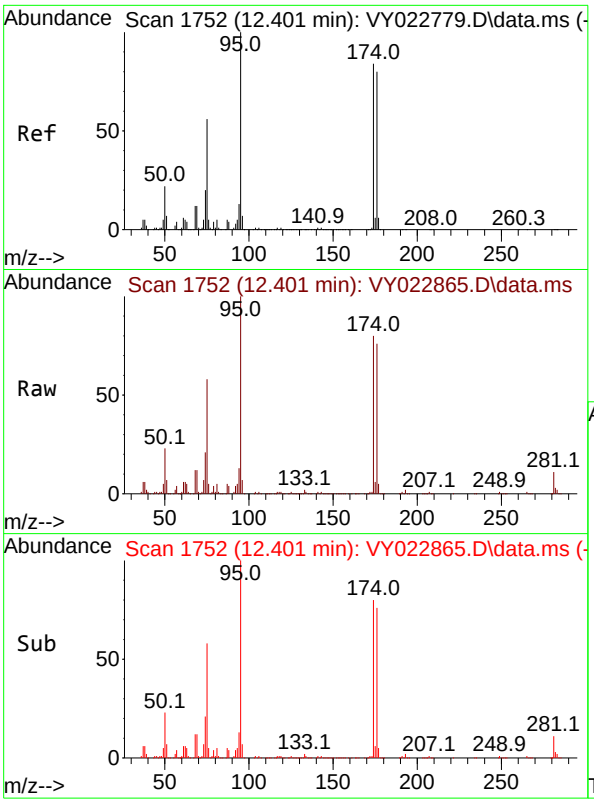


#50
Toluene-d8
Concen: 50.528 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022865.D
Acq: 27 Jun 2025 16:30

Tgt Ion: 98 Resp: 736505

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.4	77.0



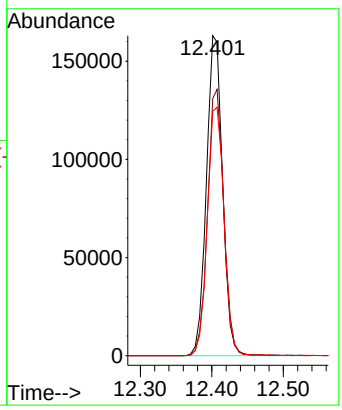


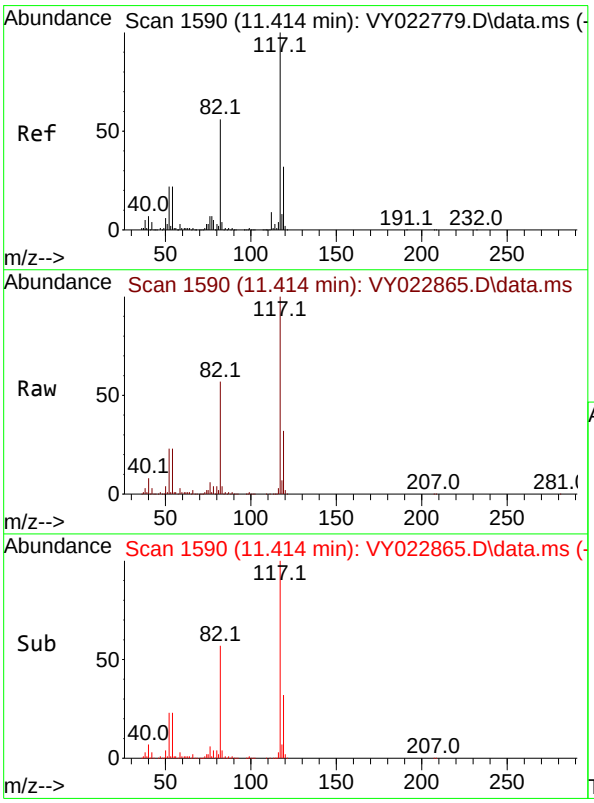
#62
4-Bromofluorobenzene
Concen: 54.644 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022865.D
Acq: 27 Jun 2025 16:30

Instrument :
MSVOA_Y
ClientSampleId :
TP-82

Tgt Ion: 95 Resp: 256053

Ion	Ratio	Lower	Upper
95	100		
174	83.5	0.0	170.0
176	80.1	0.0	166.2

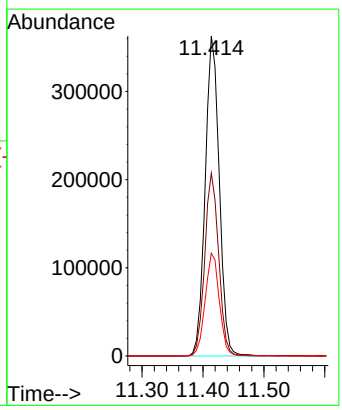


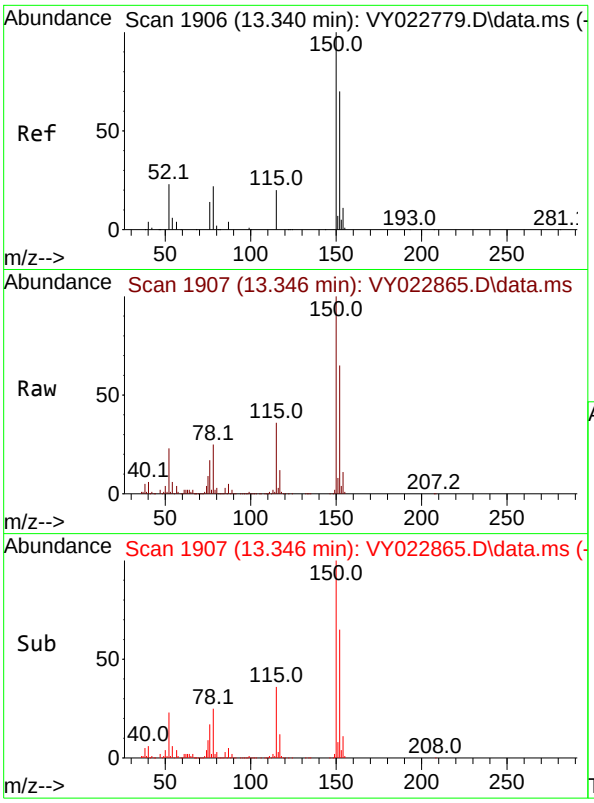


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022865.D
Acq: 27 Jun 2025 16:30

Tgt Ion:117 Resp: 582898

Ion	Ratio	Lower	Upper
117	100		
82	57.1	44.6	66.8
119	32.1	25.4	38.0



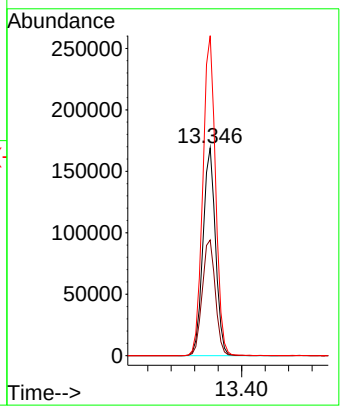


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022865.D
Acq: 27 Jun 2025 16:30

Instrument :
MSVOA_Y
ClientSampleId :
TP-82

Tgt Ion:152 Resp: 250591

Ion	Ratio	Lower	Upper
152	100		
115	58.1	28.9	86.7
150	156.2	0.0	349.6



Sample Results: **VY022865.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022865.D
Acq On : 27 Jun 2025 16:30
Operator : SY/MD
Sample : Q2436-10
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-82

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: VY022865.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	61	rBV3	11230	28360	1.45%	0.264%
2	4.616	465	475	485	rBV2	23021	73692	3.76%	0.686%
3	7.634	959	970	976	rBV	261084	626832	31.95%	5.832%
4	7.707	976	982	993	rVB	421719	965453	49.21%	8.983%
5	8.061	1031	1040	1053	rBV	223223	500194	25.50%	4.654%
6	8.615	1122	1131	1147	rBV	732623	1430519	72.92%	13.310%
7	10.103	1368	1375	1390	rBV	1118061	1961769	100.00%	18.252%
8	10.639	1457	1463	1468	rBV3	13372	21009	1.07%	0.195%
9	11.414	1582	1590	1601	rBV	1145192	1854012	94.51%	17.250%
10	11.505	1601	1605	1615	rVB3	10941	22744	1.16%	0.212%
11	12.407	1746	1753	1765	rVB2	949238	1642270	83.71%	15.280%
12	13.346	1895	1907	1914	rBV	1025381	1595696	81.34%	14.846%
13	13.883	1989	1995	2002	rBV	15018	25479	1.30%	0.237%

Sum of corrected areas: 10748029

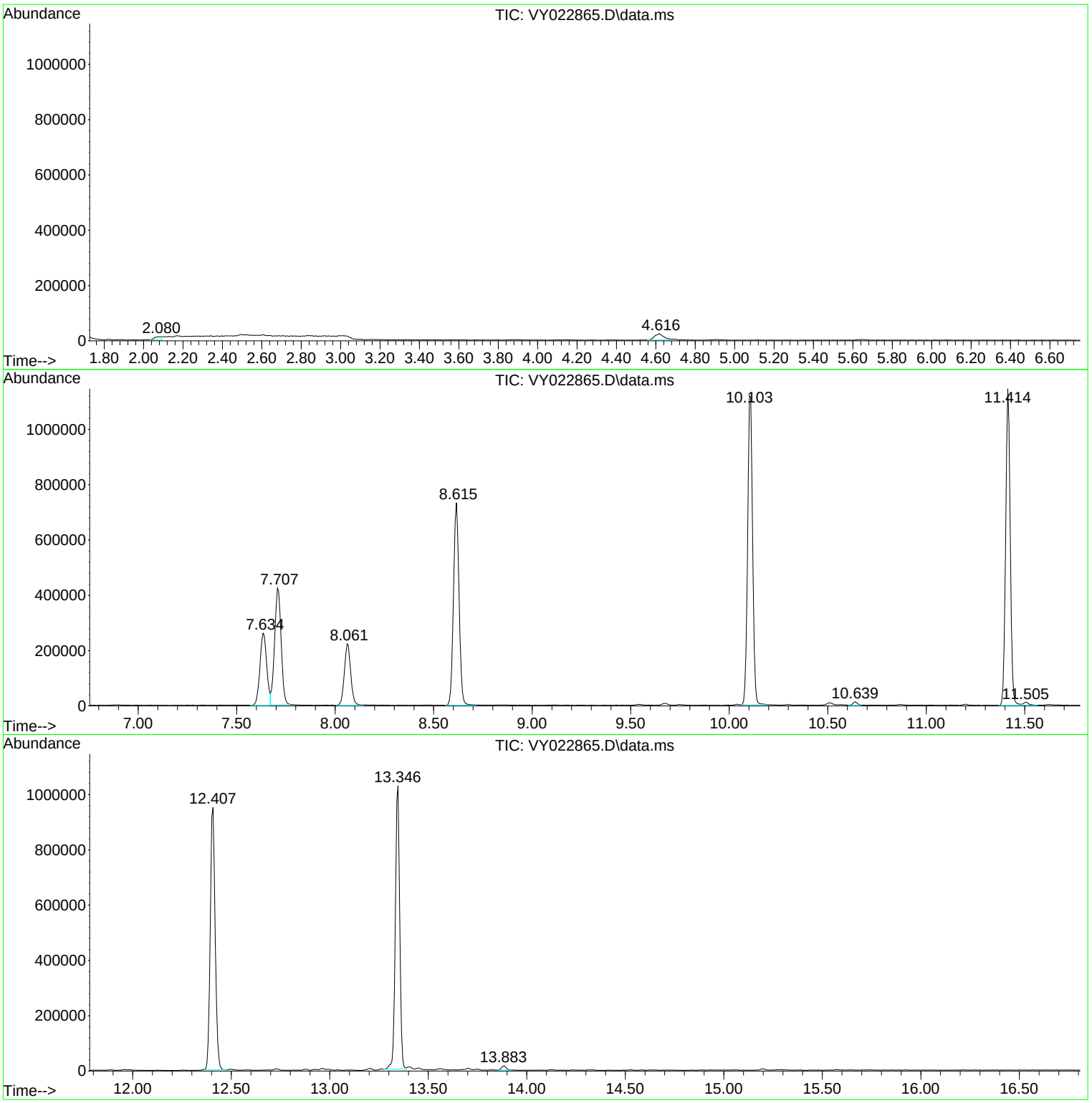
Sample Results: **VY022865.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022865.D
Acq On : 27 Jun 2025 16:30
Operator : SY/MD
Sample : Q2436-10
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-82

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



Library Search Compound Report

Sample Results: **VY022865.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022865.D
Acq On : 27 Jun 2025 16:30
Operator : SY/MD
Sample : Q2436-10
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-82

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\VY062725\
Data File : VY022865.D
Acq On : 27 Jun 2025 16:30
Operator : SY/MD
Sample : Q2436-10
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-82

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

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

CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

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	$\overline{RRF}$	% 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.

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

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	$\overline{RRF}$	% 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.

Response Factor Report GCVOA_Y

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

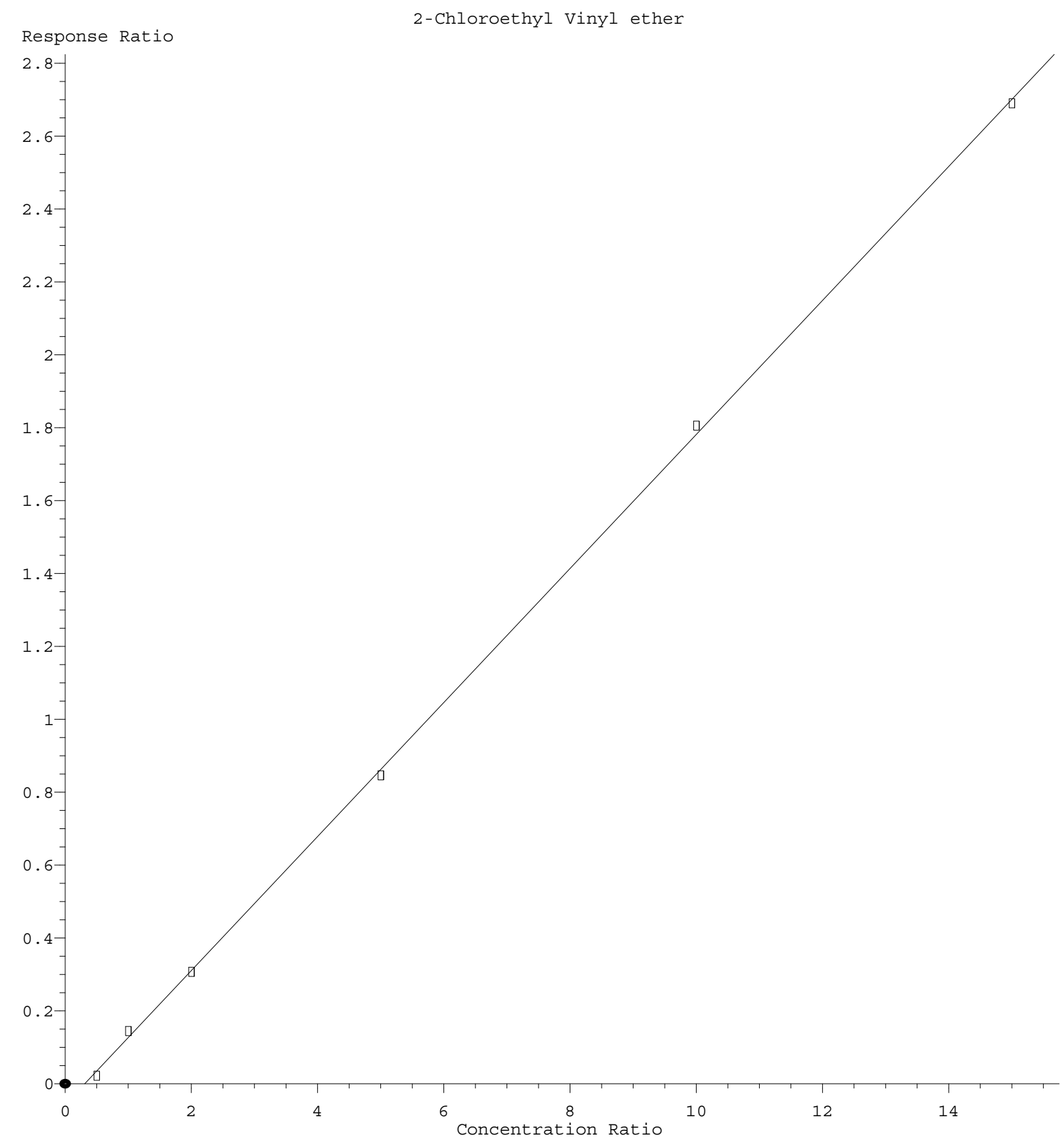
Calibration Files
5 =VY022776.D 10 =VY022777.D 20 =VY022778.D 50 =VY022779.D 100 =VY022780.D 150 =VY022781.D

		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



Response = 1.839e-001 * Amt - 5.758e-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

Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

ICAL Form

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

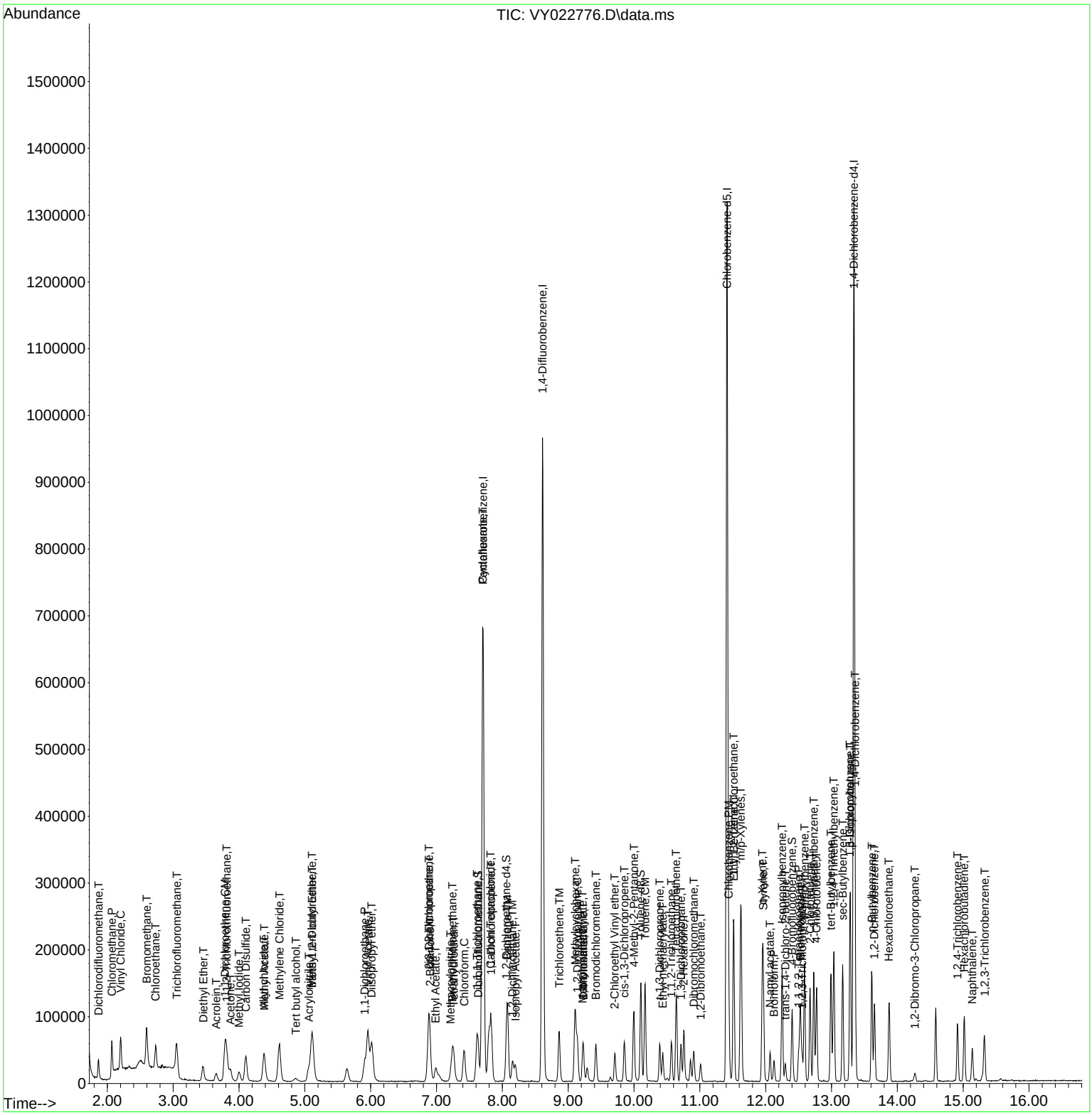
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022776.D
Acq On : 23 Jun 2025 13:38
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

ICAL Form

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

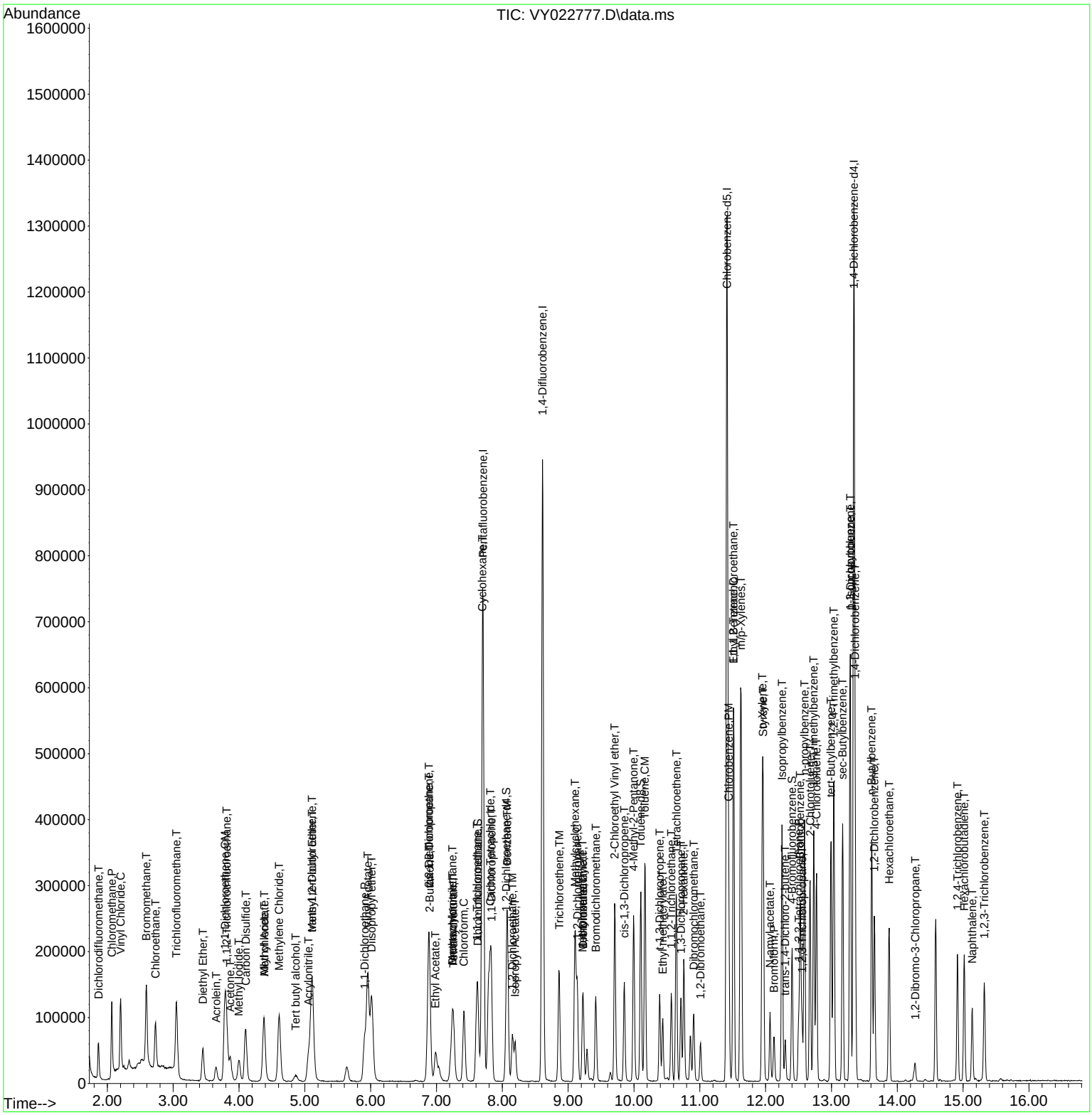
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022777.D
Acq On : 23 Jun 2025 14:00
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

ICAL Form

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

ICAL Form

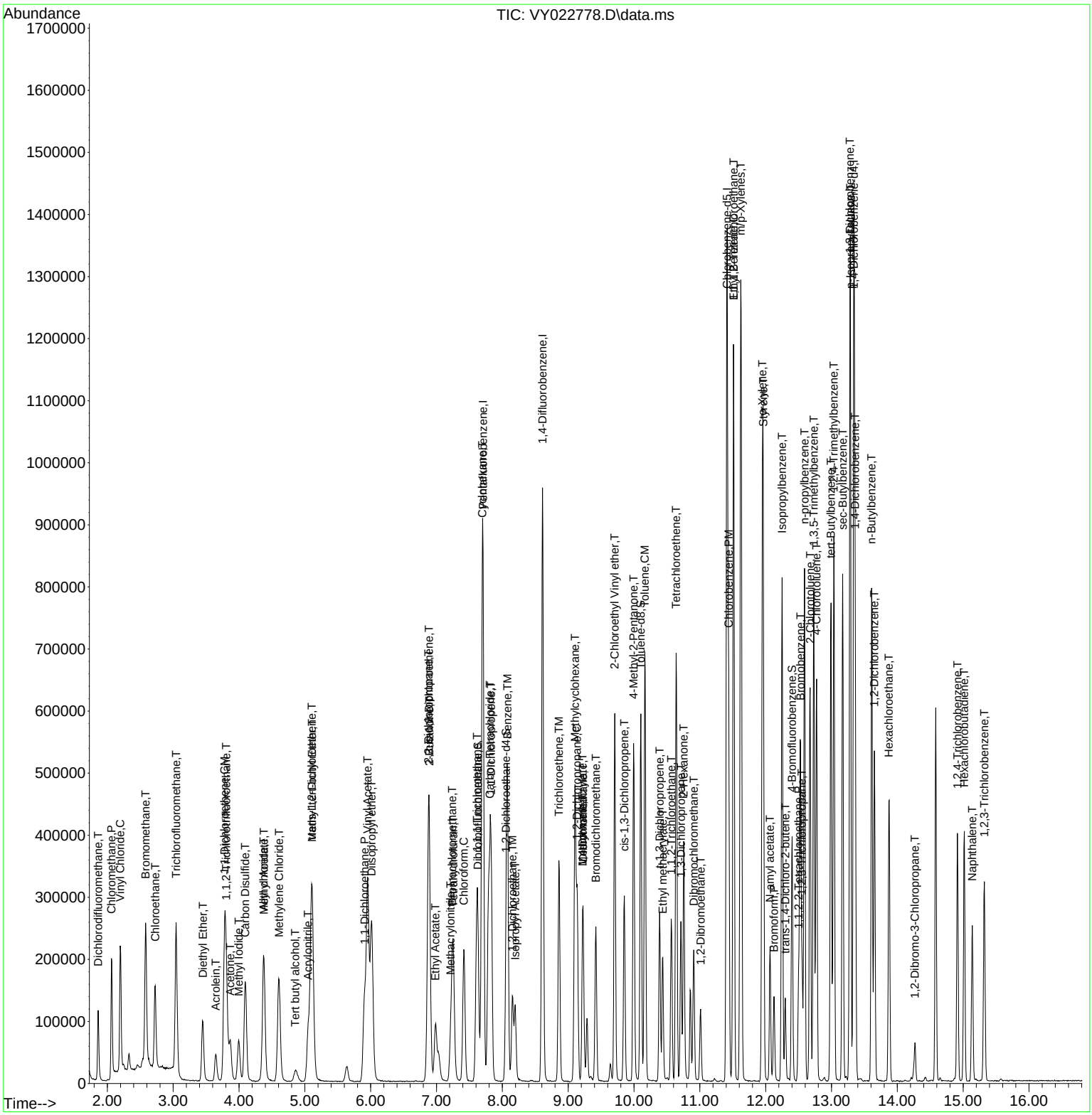
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022778.D
Acq On : 23 Jun 2025 14:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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		
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

ICAL Form

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

ICAL Form

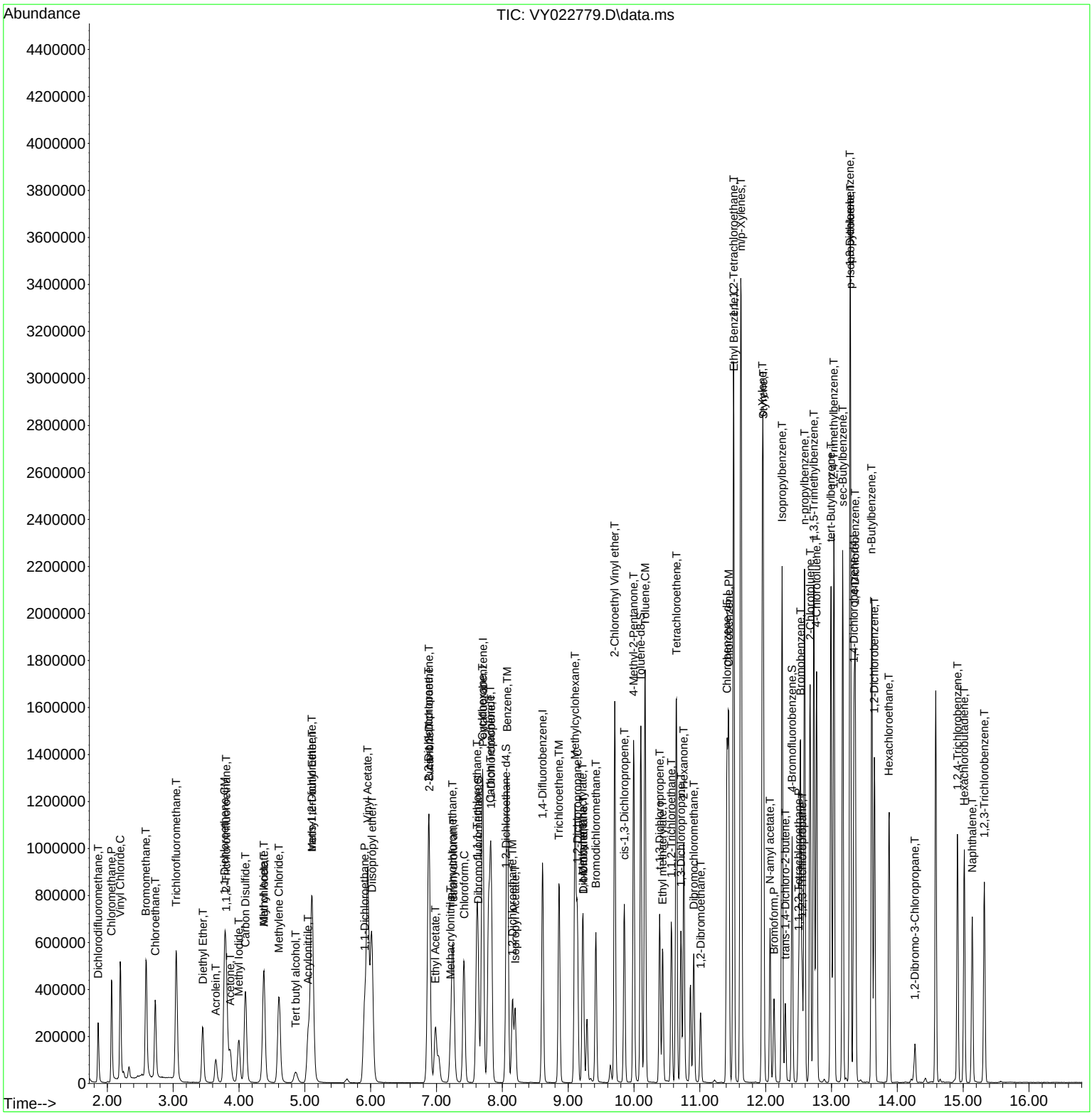
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022779.D
Acq On : 23 Jun 2025 14:46
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

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

ICAL Form

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

ICAL Form

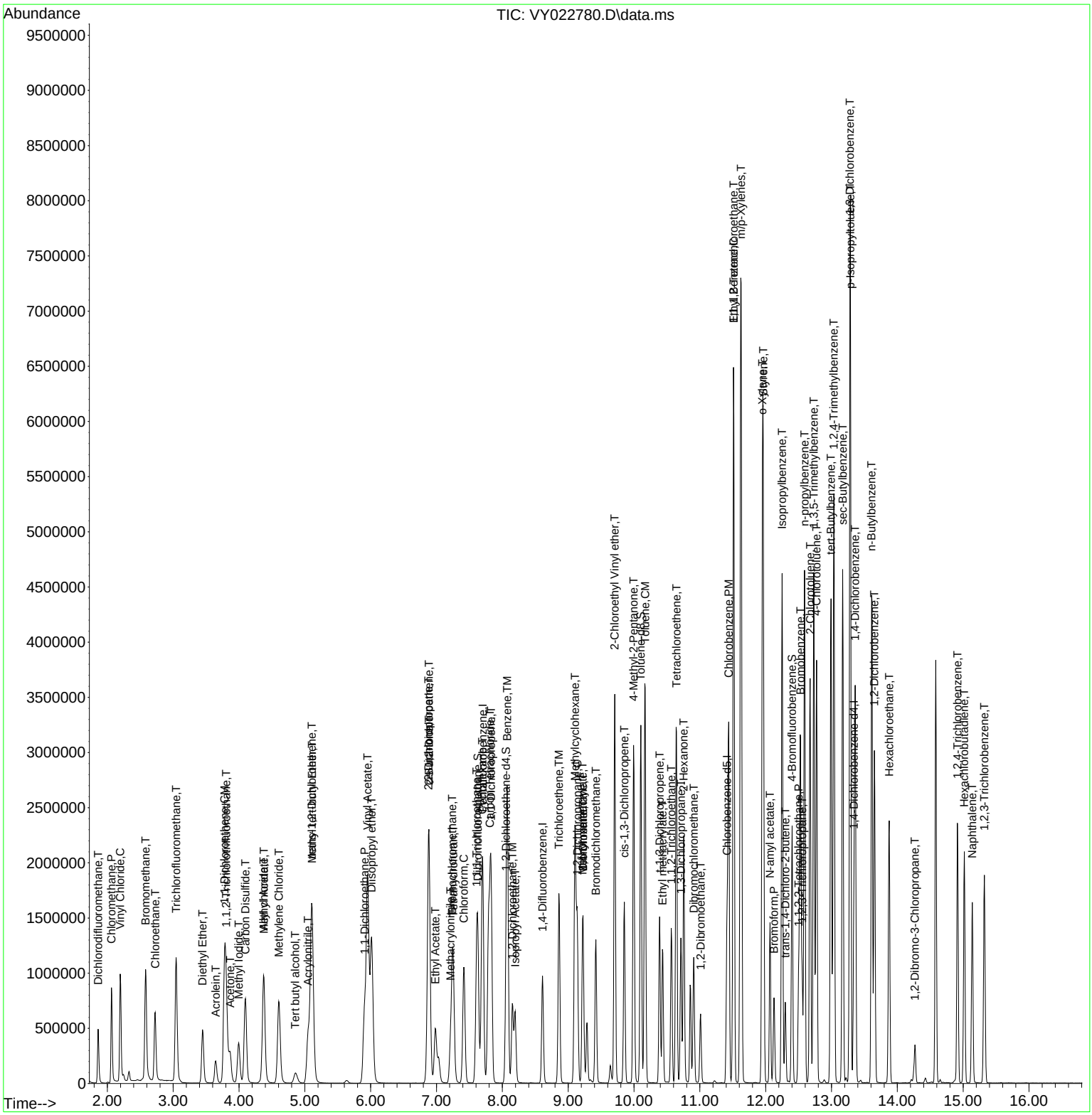
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022780.D
Acq On : 23 Jun 2025 15:08
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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)
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

ICAL Form

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)

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

ICAL Form

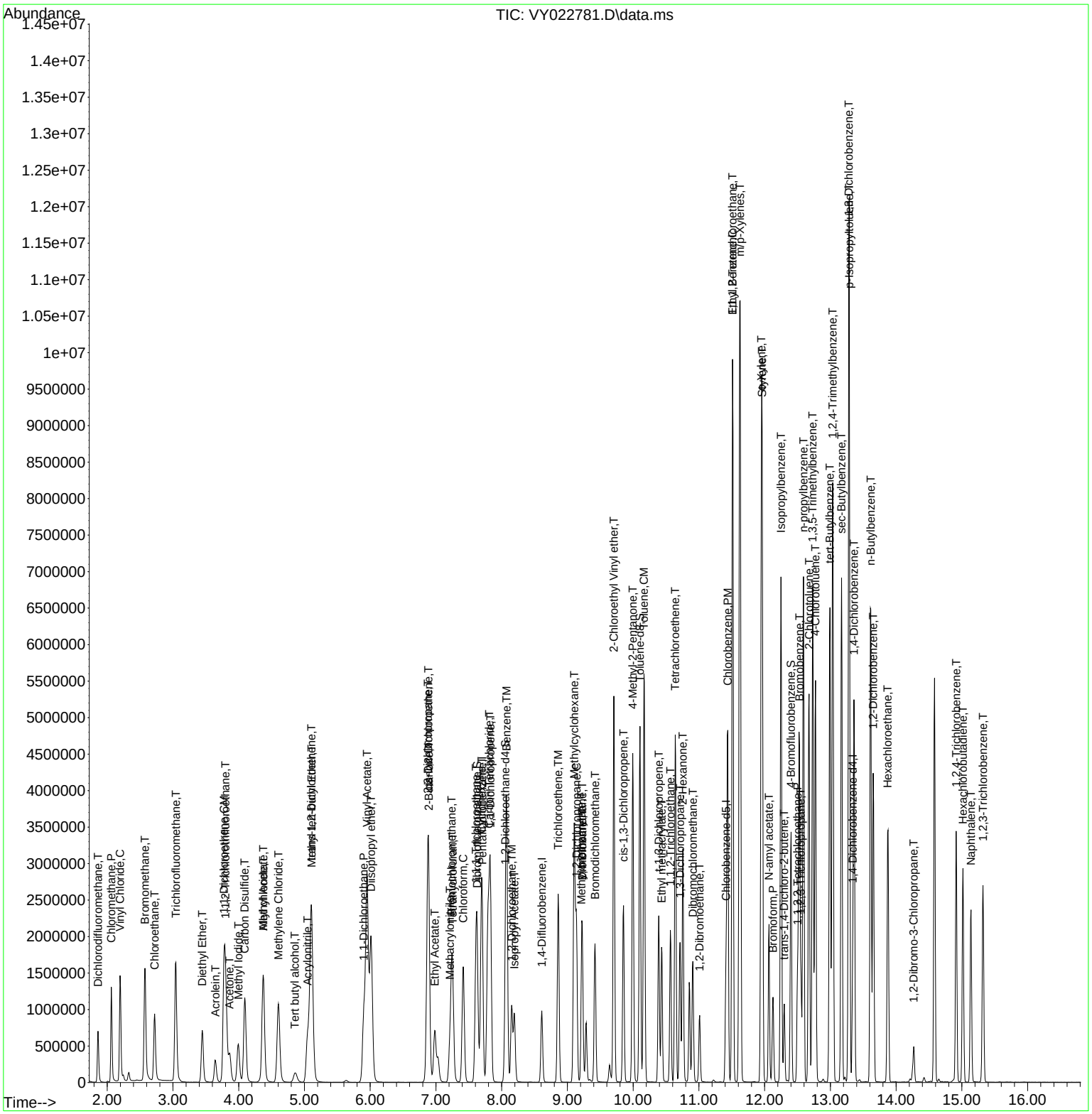
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022781.D
Acq On : 23 Jun 2025 15:31
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

Manual Integrations APPROVED

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

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

ICAL Form

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)

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

ICAL Form

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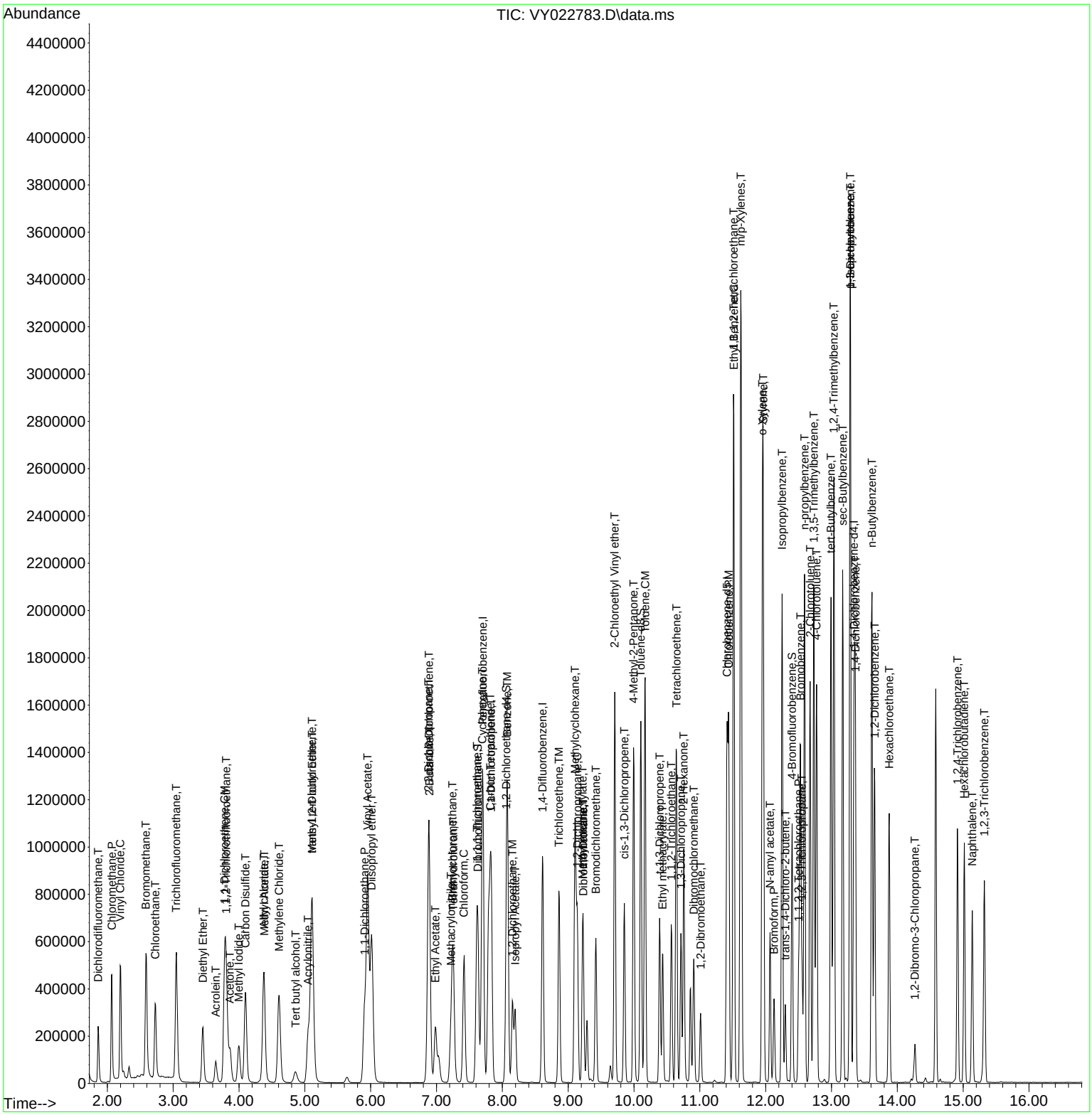
Quant Time: Jun 24 03:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 03:08:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY062325

Manual Integrations APPROVED

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



Evaluate Continuing Calibration Report

ICAL Form

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)
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

ICAL Form

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)
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

ICAL Form

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

Evaluate Continuing Calibration Report

ICAL Form

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

ICAL Form

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)
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

ICAL Form

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

Raw Data: **VY022852.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

Instrument ID: MSVOA_Y Calibration Date/Time: 06/27/2025 11:00

Lab File ID: VY022852.D Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:38 15:31

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.428		0	20
Chloromethane	0.816	0.857	0.1	5.03	20
Vinyl Chloride	1.020	0.985		-3.43	20
Bromomethane	0.802	0.846		5.49	20
Chloroethane	0.686	0.683		-0.44	20
Trichlorofluoromethane	1.129	1.067		-5.49	20
1,1,2-Trichlorotrifluoroethane	0.516	0.539		4.46	20
1,1-Dichloroethene	0.506	0.535		5.73	20
Acetone	0.105	0.121		15.24	20
Carbon Disulfide	1.635	1.684		3	20
Methyl tert-butyl Ether	1.378	1.416		2.76	20
Methyl Acetate	0.349	0.300		-14.04	20
Methylene Chloride	0.666	0.659		-1.05	20
trans-1,2-Dichloroethene	0.578	0.608		5.19	20
1,1-Dichloroethane	1.044	1.117	0.1	6.99	20
Cyclohexane	0.959	0.990		3.23	20
2-Butanone	0.154	0.156		1.3	20
Carbon Tetrachloride	0.486	0.532		9.47	20
cis-1,2-Dichloroethene	0.672	0.707		5.21	20
Bromochloromethane	0.439	0.420		-4.33	20
Chloroform	1.076	1.114		3.63	20
1,1,1-Trichloroethane	0.929	0.989		6.46	20
Methylcyclohexane	0.596	0.671		12.58	20
Benzene	1.417	1.538		8.54	20
1,2-Dichloroethane	0.388	0.407		4.9	20
Trichloroethene	0.356	0.381		7.02	20
1,2-Dichloropropane	0.332	0.355		6.93	20
Bromodichloromethane	0.485	0.520		7.22	20
4-Methyl-2-Pentanone	0.210	0.212		0.95	20
Toluene	0.894	0.991		10.85	20
t-1,3-Dichloropropene	0.437	0.473		8.24	20
cis-1,3-Dichloropropene	0.506	0.555		9.68	20
1,1,2-Trichloroethane	0.244	0.251		2.87	20
2-Hexanone	0.143	0.151		5.59	20
Dibromochloromethane	0.315	0.331		5.08	20
1,2-Dibromoethane	0.228	0.233		2.19	20
Tetrachloroethene	0.472	0.495		4.87	20
Chlorobenzene	1.099	1.211	0.3	10.19	20

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

Raw Data: **VY022852.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

Instrument ID: MSVOA_Y Calibration Date/Time: 06/27/2025 11:00

Lab File ID: VY022852.D Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:38 15:31

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.214		14.72	20
m/p-Xylenes	0.746	0.854		14.48	20
o-Xylene	0.703	0.804		14.37	20
Styrene	1.178	1.339		13.67	20
Bromoform	0.207	0.211	0.1	1.93	20
Isopropylbenzene	3.698	4.232		14.44	20
1,1,2,2-Tetrachloroethane	0.596	0.622	0.3	4.36	20
1,3-Dichlorobenzene	1.683	1.862		10.64	20
1,4-Dichlorobenzene	1.672	1.820		8.85	20
1,2-Dichlorobenzene	1.483	1.590		7.22	20
1,2-Dibromo-3-Chloropropane	0.101	0.099		-1.98	20
1,2,4-Trichlorobenzene	0.838	0.867		3.46	20
1,2,3-Trichlorobenzene	0.724	0.718		-0.83	20
1,2-Dichloroethane-d4	0.558	0.538		-3.58	20
Dibromofluoromethane	0.304	0.307		0.99	20
Toluene-d8	1.207	1.256		4.06	20
4-Bromofluorobenzene	0.388	0.399		2.84	20

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

Sample Results: **VY022852.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022852.D
Acq On : 27 Jun 2025 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 23:13:26 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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	460120	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	754723	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	647658	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	319930	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	247498	48.194	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.380%			
35) Dibromofluoromethane	7.640	113	231653	50.471	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.940%			
50) Toluene-d8	10.109	98	947623	52.029	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.060%			
62) 4-Bromofluorobenzene	12.408	95	300791	51.374	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	196762	50.009	ug/l	97
3) Chloromethane	2.068	50	394293	52.481	ug/l	98
4) Vinyl Chloride	2.208	62	453259	48.289	ug/l	100
5) Bromomethane	2.605	94	389074	52.726	ug/l	97
6) Chloroethane	2.739	64	314352	49.823	ug/l	96
7) Trichlorofluoromethane	3.062	101	490750	47.218	ug/l	98
8) Diethyl Ether	3.458	74	136633	53.227	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	247952	52.204	ug/l	98
10) Methyl Iodide	4.013	142	291332	56.336	ug/l	99
11) Tert butyl alcohol	4.897	59	70006	205.015	ug/l #	73
12) 1,1-Dichloroethene	3.800	96	246031	52.827	ug/l	97
13) Acrolein	3.659	56	105336	227.491	ug/l	100
14) Allyl chloride	4.391	41	381542	53.262	ug/l	95
15) Acrylonitrile	5.068	53	261236	243.913	ug/l	99
16) Acetone	3.885	43	278488	286.914	ug/l	99
17) Carbon Disulfide	4.110	76	775055	51.514	ug/l	100
18) Methyl Acetate	4.391	43	138152	42.979	ug/l	97
19) Methyl tert-butyl Ether	5.129	73	651700	51.391	ug/l	98
20) Methylene Chloride	4.623	84	303171	49.459	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	279841	52.574	ug/l	97
22) Diisopropyl ether	6.025	45	843003	52.990	ug/l	98
23) Vinyl Acetate	5.970	43	2334095	265.656	ug/l	99
24) 1,1-Dichloroethane	5.921	63	514011	53.491	ug/l	100
25) 2-Butanone	6.903	43	358160	253.532	ug/l	100
26) 2,2-Dichloropropane	6.890	77	459223	57.011	ug/l	99
27) cis-1,2-Dichloroethene	6.903	96	325131	52.567	ug/l	98
28) Bromochloromethane	7.250	49	193428	47.880	ug/l	93
29) Tetrahydrofuran	7.274	42	213043	238.830	ug/l	99
30) Chloroform	7.427	83	512389	51.771	ug/l	94
31) Cyclohexane	7.707	56	455431	51.632	ug/l	100
32) 1,1,1-Trichloroethane	7.622	97	455003	53.199	ug/l	99
36) 1,1-Dichloropropene	7.841	75	381589	54.849	ug/l	99
37) Ethyl Acetate	6.988	43	146653	48.850	ug/l #	98
38) Carbon Tetrachloride	7.823	117	401168	54.650	ug/l	98
39) Methylcyclohexane	9.116	83	506252	56.230	ug/l	100
40) Benzene	8.085	78	1160931	54.275	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022852.D
Acq On : 27 Jun 2025 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 23:13:26 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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	85657	46.347	ug/l		97
42) 1,2-Dichloroethane	8.165	62	307091	52.392	ug/l		99
43) Isopropyl Acetate	8.207	43	314275	50.368	ug/l		97
44) Trichloroethene	8.872	130	287473	53.529	ug/l		100
45) 1,2-Dichloropropane	9.146	63	268195	53.573	ug/l		95
46) Dibromomethane	9.238	93	147595	51.936	ug/l		97
47) Bromodichloromethane	9.427	83	392353	53.540	ug/l		99
48) Methyl methacrylate	9.225	41	155339	51.787	ug/l		93
49) 1,4-Dioxane	9.244	88	28555	850.470	ug/l		99
51) 4-Methyl-2-Pentanone	10.000	43	799838	252.254	ug/l		94
52) Toluene	10.176	92	747939	55.426	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	356934	54.134	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	418765	54.776	ug/l		96
55) 1,1,2-Trichloroethane	10.579	97	189791	51.575	ug/l		97
56) Ethyl methacrylate	10.445	69	263457	53.214	ug/l		95
57) 1,3-Dichloropropane	10.719	76	331625	51.652	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	602327	232.634	ug/l		98
59) 2-Hexanone	10.762	43	570461	264.626	ug/l		97
60) Dibromochloromethane	10.914	129	249840	52.562	ug/l		100
61) 1,2-Dibromoethane	11.018	107	176170	51.159	ug/l		98
64) Tetrachloroethene	10.652	164	320739	52.422	ug/l		99
65) Chlorobenzene	11.444	112	784258	55.109	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	261622	54.277	ug/l		99
67) Ethyl Benzene	11.524	91	1433953	57.349	ug/l		98
68) m/p-Xylenes	11.633	106	1106722	114.501	ug/l		100
69) o-Xylene	11.957	106	521002	57.206	ug/l		99
70) Styrene	11.975	104	867264	56.850	ug/l		99
71) Bromoform	12.133	173	136375	50.812	ug/l	#	98
73) Isopropylbenzene	12.255	105	1353825	57.218	ug/l		98
74) N-amyl acetate	12.072	43	289318	54.475	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.511	83	198918	52.163	ug/l		98
76) 1,2,3-Trichloropropane	12.560	75	169296m	51.833	ug/l		
77) Bromobenzene	12.536	156	291644	54.380	ug/l		99
78) n-propylbenzene	12.597	91	1647162	57.659	ug/l		99
79) 2-Chlorotoluene	12.682	91	915158	56.701	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	1100569	57.619	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	70688	54.677	ug/l		98
82) 4-Chlorotoluene	12.780	91	937032	55.271	ug/l		99
83) tert-Butylbenzene	12.999	119	972388	57.725	ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	1096265	57.326	ug/l		99
85) sec-Butylbenzene	13.176	105	1470667	58.026	ug/l		99
86) p-Isopropyltoluene	13.292	119	1225077	58.084	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	595697	55.305	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	582146	54.410	ug/l		100
89) n-Butylbenzene	13.621	91	1152458	58.089	ug/l		98
90) Hexachloroethane	13.883	117	232705	55.395	ug/l		96
91) 1,2-Dichlorobenzene	13.664	146	508692	53.591	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	31568	48.816	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	277456	51.771	ug/l		97
94) Hexachlorobutadiene	15.029	225	155100	51.179	ug/l		98
95) Naphthalene	15.145	128	486957	50.246	ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	229649	49.589	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022852.D
Acq On : 27 Jun 2025 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 23:13:26 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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025

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

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

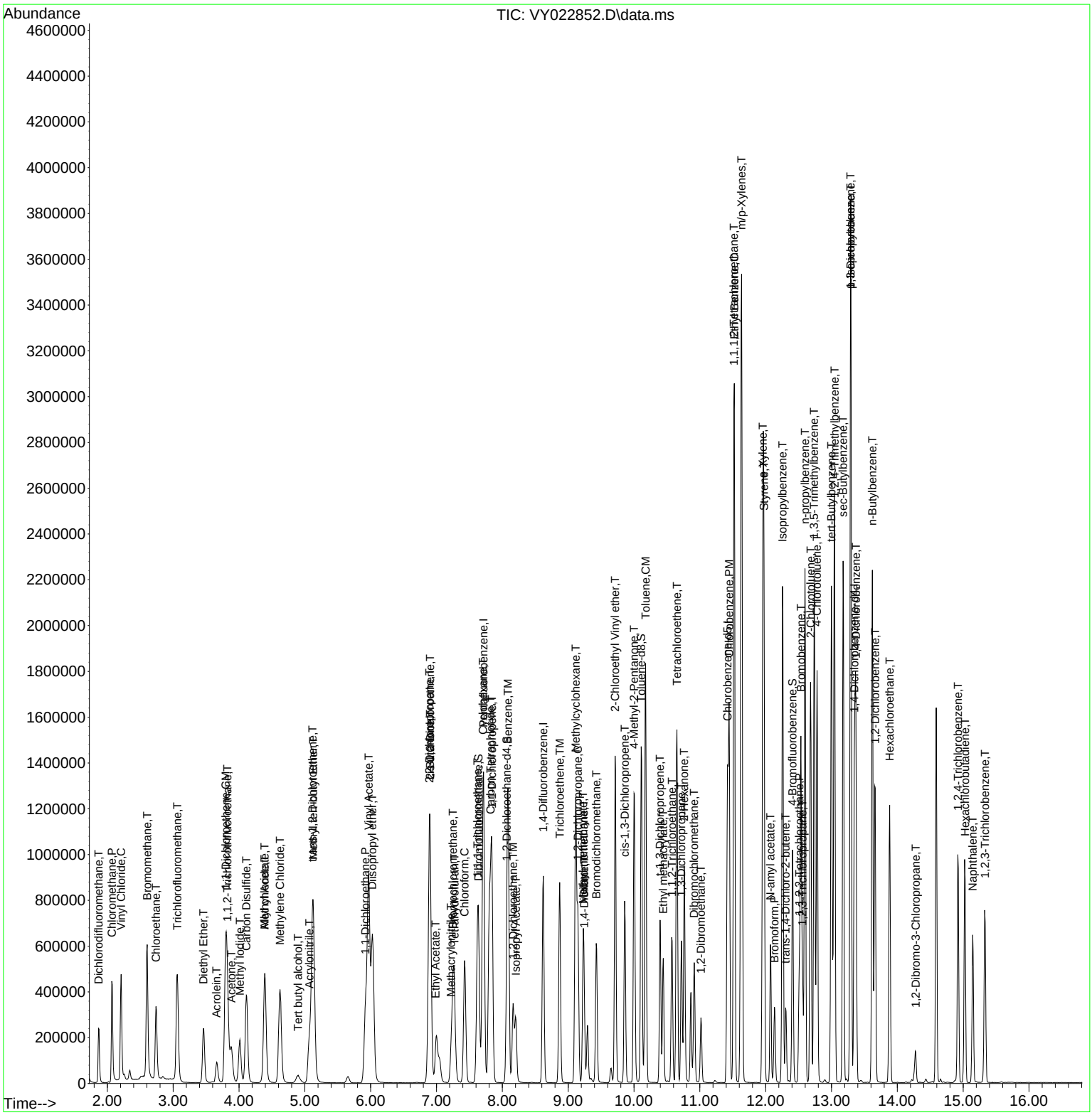
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022852.D
Acq On : 27 Jun 2025 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 23:13:26 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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025



Evaluate Continuing Calibration Report

Sample Results: **VY022852.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022852.D
Acq On : 27 Jun 2025 11:00
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: Jun 27 23:13:26 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

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	99	0.00
2	T	Dichlorodifluoromethane	0.428	0.428	0.0	100	0.00
3	P	Chloromethane	0.816	0.857	-5.0	107	0.00
4	C	Vinyl Chloride	1.020	0.985	3.4#	93	0.00
5	T	Bromomethane	0.802	0.846	-5.5	108	0.00
6	T	Chloroethane	0.686	0.683	0.4	97	0.00
7	T	Trichlorofluoromethane	1.129	1.067	5.5	90	0.00
8	T	Diethyl Ether	0.279	0.297	-6.5	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.516	0.539	-4.5	103	0.00
10	T	Methyl Iodide	0.562	0.633	-12.6	100	0.00
11	T	Tert butyl alcohol	0.037	0.030	18.9	79	0.01
12	CM	1,1-Dichloroethene	0.506	0.535	-5.7#	103	0.00
13	T	Acrolein	0.050	0.046	8.0	91	0.00
14	T	Allyl chloride	0.778	0.829	-6.6	103	0.00
15	T	Acrylonitrile	0.116	0.114	1.7	93	0.00
16	T	Acetone	0.105	0.121	-15.2	125	0.00
17	T	Carbon Disulfide	1.635	1.684	-3.0	100	0.00
18	T	Methyl Acetate	0.349	0.300	14.0	84	0.00
19	T	Methyl tert-butyl Ether	1.378	1.416	-2.8	97	0.00
20	T	Methylene Chloride	0.666	0.659	1.1	110	0.00
21	T	trans-1,2-Dichloroethene	0.578	0.608	-5.2	101	0.00
22	T	Diisopropyl ether	1.729	1.832	-6.0	101	0.00
23	T	Vinyl Acetate	0.955	1.015	-6.3	99	0.00
24	P	1,1-Dichloroethane	1.044	1.117	-7.0	102	0.00
25	T	2-Butanone	0.154	0.156	-1.3	100	0.00
26	T	2,2-Dichloropropane	0.875	0.998	-14.1	111	0.00
27	T	cis-1,2-Dichloroethene	0.672	0.707	-5.2	102	0.00
28	T	Bromochloromethane	0.439	0.420	4.3	90	0.00
29	T	Tetrahydrofuran	0.097	0.093	4.1	90	0.00
30	C	Chloroform	1.076	1.114	-3.5#	100	0.00
31	T	Cyclohexane	0.959	0.990	-3.2	103	0.00
32	T	1,1,1-Trichloroethane	0.929	0.989	-6.5	103	0.00
33	S	1,2-Dichloroethane-d4	0.558	0.538	3.6	95	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
35	S	Dibromofluoromethane	0.304	0.307	-1.0	97	0.00
36	T	1,1-Dichloropropene	0.461	0.506	-9.8	104	0.00
37	T	Ethyl Acetate	0.199	0.194	2.5	91	0.00
38	T	Carbon Tetrachloride	0.486	0.532	-9.5	104	0.00
39	T	Methylcyclohexane	0.596	0.671	-12.6	104	0.00
40	TM	Benzene	1.417	1.538	-8.5	101	0.00
41	T	Methacrylonitrile	0.122	0.113	7.4	91	-0.01
42	TM	1,2-Dichloroethane	0.388	0.407	-4.9	98	0.00
43	T	Isopropyl Acetate	0.413	0.416	-0.7	92	0.00
44	TM	Trichloroethene	0.356	0.381	-7.0	98	0.00
45	C	1,2-Dichloropropane	0.332	0.355	-6.9#	101	0.00
46	T	Dibromomethane	0.188	0.196	-4.3	98	0.00
47	T	Bromodichloromethane	0.485	0.520	-7.2	100	0.00
48	T	Methyl methacrylate	0.199	0.206	-3.5	92	0.00

Sample Results: **VY022852.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022852.D
Acq On : 27 Jun 2025 11:00
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: Jun 27 23:13:26 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

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	79	0.00
50	S	Toluene-d8	1.207	1.256	-4.1	99	0.00
51	T	4-Methyl-2-Pentanone	0.210	0.212	-1.0	90	0.00
52	CM	Toluene	0.894	0.991	-10.9#	103	0.00
53	T	t-1,3-Dichloropropene	0.437	0.473	-8.2	101	0.00
54	T	cis-1,3-Dichloropropene	0.506	0.555	-9.7	102	0.00
55	T	1,1,2-Trichloroethane	0.244	0.251	-2.9	96	0.00
56	T	Ethyl methacrylate	0.328	0.349	-6.4	95	0.00
57	T	1,3-Dichloropropane	0.425	0.439	-3.3	96	0.00
58	T	2-Chloroethyl Vinyl ether	0.145	0.160	-10.3	91	0.00
59	T	2-Hexanone	0.143	0.151	-5.6	96	0.00
60	T	Dibromochloromethane	0.315	0.331	-5.1	97	0.00
61	T	1,2-Dibromoethane	0.228	0.233	-2.2	95	0.00
62	S	4-Bromofluorobenzene	0.388	0.399	-2.8	100	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
64	T	Tetrachloroethene	0.472	0.495	-4.9	91	0.00
65	PM	Chlorobenzene	1.099	1.211	-10.2	102	0.00
66	T	1,1,1,2-Tetrachloroethane	0.372	0.404	-8.6	100	0.00
67	C	Ethyl Benzene	1.930	2.214	-14.7#	104	0.00
68	T	m/p-Xylenes	0.746	0.854	-14.5	104	0.00
69	T	o-Xylene	0.703	0.804	-14.4	104	0.00
70	T	Styrene	1.178	1.339	-13.7	102	0.00
71	P	Bromoform	0.207	0.211	-1.9	94	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73	T	Isopropylbenzene	3.698	4.232	-14.4	104	0.00
74	T	N-amyl acetate	0.830	0.904	-8.9	94	0.00
75	P	1,1,2,2-Tetrachloroethane	0.596	0.622	-4.4	102	0.00
76	T	1,2,3-Trichloropropane	0.510	0.529	-3.7	96	0.00
77	T	Bromobenzene	0.838	0.912	-8.8	99	0.00
78	T	n-propylbenzene	4.465	5.149	-15.3	105	0.00
79	T	2-Chlorotoluene	2.522	2.860	-13.4	103	0.00
80	T	1,3,5-Trimethylbenzene	2.985	3.440	-15.2	104	0.00
81	T	trans-1,4-Dichloro-2-butene	0.202	0.221	-9.4	103	0.00
82	T	4-Chlorotoluene	2.650	2.929	-10.5	101	0.00
83	T	tert-Butylbenzene	2.633	3.039	-15.4	104	0.00
84	T	1,2,4-Trimethylbenzene	2.989	3.427	-14.7	103	0.00
85	T	sec-Butylbenzene	3.961	4.597	-16.1	104	0.00
86	T	p-Isopropyltoluene	3.296	3.829	-16.2	104	0.00
87	T	1,3-Dichlorobenzene	1.683	1.862	-10.6	101	0.00
88	T	1,4-Dichlorobenzene	1.672	1.820	-8.9	100	0.00
89	T	n-Butylbenzene	3.101	3.602	-16.2	104	0.00
90	T	Hexachloroethane	0.657	0.727	-10.7	100	0.00
91	T	1,2-Dichlorobenzene	1.483	1.590	-7.2	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.101	0.099	2.0	89	0.00
93	T	1,2,4-Trichlorobenzene	0.838	0.867	-3.5	95	0.00
94	T	Hexachlorobutadiene	0.474	0.485	-2.3	97	0.00
95	T	Naphthalene	1.515	1.522	-0.5	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022852.D
Acq On : 27 Jun 2025 11:00
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: Jun 27 23:13:26 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

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	0.718	0.8	91	0.00

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

Sample Results: **VY022852.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022852.D
Acq On : 27 Jun 2025 11:00
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: Jun 27 23:13:26 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

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	99	0.00
2	T	Dichlorodifluoromethane	50.000	50.009	-0.0	100	0.00
3	P	Chloromethane	50.000	52.481	-5.0	107	0.00
4	C	Vinyl Chloride	50.000	48.289	3.4#	93	0.00
5	T	Bromomethane	50.000	52.726	-5.5	108	0.00
6	T	Chloroethane	50.000	49.823	0.4	97	0.00
7	T	Trichlorofluoromethane	50.000	47.218	5.6	90	0.00
8	T	Diethyl Ether	50.000	53.227	-6.5	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	52.204	-4.4	103	0.00
10	T	Methyl Iodide	50.000	56.336	-12.7	100	0.00
11	T	Tert butyl alcohol	250.000	205.015	18.0	79	0.01
12	CM	1,1-Dichloroethene	50.000	52.827	-5.7#	103	0.00
13	T	Acrolein	250.000	227.491	9.0	91	0.00
14	T	Allyl chloride	50.000	53.262	-6.5	103	0.00
15	T	Acrylonitrile	250.000	243.913	2.4	93	0.00
16	T	Acetone	250.000	286.914	-14.8	125	0.00
17	T	Carbon Disulfide	50.000	51.514	-3.0	100	0.00
18	T	Methyl Acetate	50.000	42.979	14.0	84	0.00
19	T	Methyl tert-butyl Ether	50.000	51.391	-2.8	97	0.00
20	T	Methylene Chloride	50.000	49.459	1.1	110	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.574	-5.1	101	0.00
22	T	Diisopropyl ether	50.000	52.990	-6.0	101	0.00
23	T	Vinyl Acetate	250.000	265.656	-6.3	99	0.00
24	P	1,1-Dichloroethane	50.000	53.491	-7.0	102	0.00
25	T	2-Butanone	250.000	253.532	-1.4	100	0.00
26	T	2,2-Dichloropropane	50.000	57.011	-14.0	111	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.567	-5.1	102	0.00
28	T	Bromochloromethane	50.000	47.880	4.2	90	0.00
29	T	Tetrahydrofuran	250.000	238.830	4.5	90	0.00
30	C	Chloroform	50.000	51.771	-3.5#	100	0.00
31	T	Cyclohexane	50.000	51.632	-3.3	103	0.00
32	T	1,1,1-Trichloroethane	50.000	53.199	-6.4	103	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.194	3.6	95	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	96	0.00
35	S	Dibromofluoromethane	50.000	50.471	-0.9	97	0.00
36	T	1,1-Dichloropropene	50.000	54.849	-9.7	104	0.00
37	T	Ethyl Acetate	50.000	48.850	2.3	91	0.00
38	T	Carbon Tetrachloride	50.000	54.650	-9.3	104	0.00
39	T	Methylcyclohexane	50.000	56.230	-12.5	104	0.00
40	TM	Benzene	50.000	54.275	-8.5	101	0.00
41	T	Methacrylonitrile	50.000	46.347	7.3	91	-0.01
42	TM	1,2-Dichloroethane	50.000	52.392	-4.8	98	0.00
43	T	Isopropyl Acetate	50.000	50.368	-0.7	92	0.00
44	TM	Trichloroethene	50.000	53.529	-7.1	98	0.00
45	C	1,2-Dichloropropane	50.000	53.573	-7.1#	101	0.00
46	T	Dibromomethane	50.000	51.936	-3.9	98	0.00
47	T	Bromodichloromethane	50.000	53.540	-7.1	100	0.00
48	T	Methyl methacrylate	50.000	51.787	-3.6	92	0.00

Sample Results: **VY022852.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022852.D
Acq On : 27 Jun 2025 11:00
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: Jun 27 23:13:26 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

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	850.470	15.0	79	0.00
50	S	Toluene-d8	50.000	52.029	-4.1	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	252.254	-0.9	90	0.00
52	CM	Toluene	50.000	55.426	-10.9#	103	0.00
53	T	t-1,3-Dichloropropene	50.000	54.134	-8.3	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.776	-9.6	102	0.00
55	T	1,1,2-Trichloroethane	50.000	51.575	-3.2	96	0.00
56	T	Ethyl methacrylate	50.000	53.214	-6.4	95	0.00
57	T	1,3-Dichloropropane	50.000	51.652	-3.3	96	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	232.634	6.9	91	0.00
59	T	2-Hexanone	250.000	264.626	-5.9	96	0.00
60	T	Dibromochloromethane	50.000	52.562	-5.1	97	0.00
61	T	1,2-Dibromoethane	50.000	51.159	-2.3	95	0.00
62	S	4-Bromofluorobenzene	50.000	51.374	-2.7	100	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	95	0.00
64	T	Tetrachloroethene	50.000	52.422	-4.8	91	0.00
65	PM	Chlorobenzene	50.000	55.109	-10.2	102	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.277	-8.6	100	0.00
67	C	Ethyl Benzene	50.000	57.349	-14.7#	104	0.00
68	T	m/p-Xylenes	100.000	114.501	-14.5	104	0.00
69	T	o-Xylene	50.000	57.206	-14.4	104	0.00
70	T	Styrene	50.000	56.850	-13.7	102	0.00
71	P	Bromoform	50.000	50.812	-1.6	94	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73	T	Isopropylbenzene	50.000	57.218	-14.4	104	0.00
74	T	N-amyl acetate	50.000	54.475	-9.0	94	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.163	-4.3	102	0.00
76	T	1,2,3-Trichloropropane	50.000	51.833	-3.7	96	0.00
77	T	Bromobenzene	50.000	54.380	-8.8	99	0.00
78	T	n-propylbenzene	50.000	57.659	-15.3	105	0.00
79	T	2-Chlorotoluene	50.000	56.701	-13.4	103	0.00
80	T	1,3,5-Trimethylbenzene	50.000	57.619	-15.2	104	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	54.677	-9.4	103	0.00
82	T	4-Chlorotoluene	50.000	55.271	-10.5	101	0.00
83	T	tert-Butylbenzene	50.000	57.725	-15.5	104	0.00
84	T	1,2,4-Trimethylbenzene	50.000	57.326	-14.7	103	0.00
85	T	sec-Butylbenzene	50.000	58.026	-16.1	104	0.00
86	T	p-Isopropyltoluene	50.000	58.084	-16.2	104	0.00
87	T	1,3-Dichlorobenzene	50.000	55.305	-10.6	101	0.00
88	T	1,4-Dichlorobenzene	50.000	54.410	-8.8	100	0.00
89	T	n-Butylbenzene	50.000	58.089	-16.2	104	0.00
90	T	Hexachloroethane	50.000	55.395	-10.8	100	0.00
91	T	1,2-Dichlorobenzene	50.000	53.591	-7.2	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.816	2.4	89	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.771	-3.5	95	0.00
94	T	Hexachlorobutadiene	50.000	51.179	-2.4	97	0.00
95	T	Naphthalene	50.000	50.246	-0.5	88	0.00

Sample Results: **VY022852.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022852.D
Acq On : 27 Jun 2025 11:00
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: Jun 27 23:13:26 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

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	49.589	0.8	91	0.00

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

Raw Data: **VY022872.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

Instrument ID: MSVOA_Y Calibration Date/Time: 06/30/2025 11:03

Lab File ID: VY022872.D Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (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.

Raw Data: **VY022872.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

Instrument ID: MSVOA_Y Calibration Date/Time: 06/30/2025 11:03

Lab File ID: VY022872.D Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

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

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

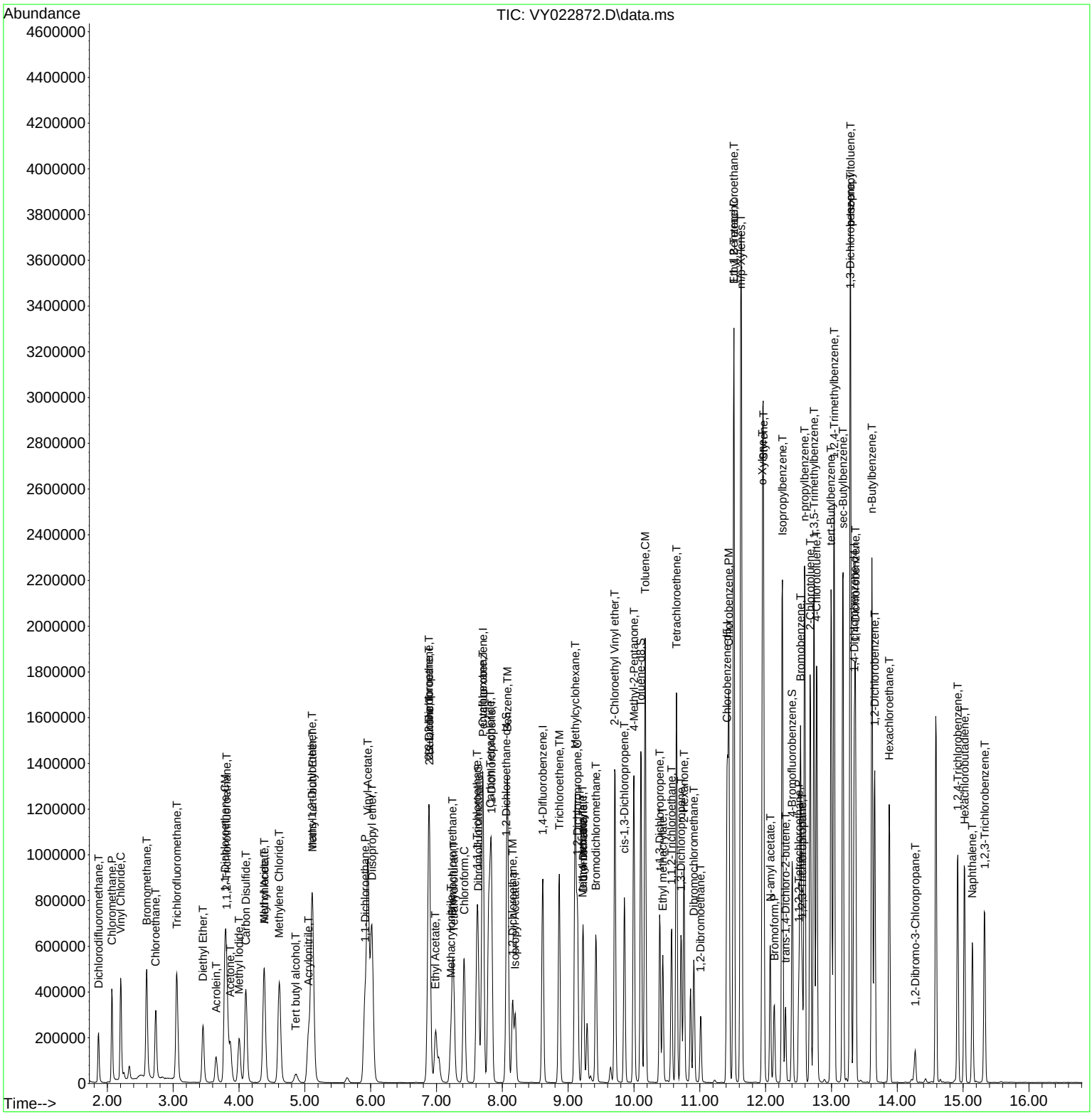
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022872.D
Acq On : 30 Jun 2025 11:03
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025



Evaluate Continuing Calibration Report

Sample Results: **VY022872.D**

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

Sample Results: **VY022872.D**

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

Sample Results: **VY022872.D**

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

Sample Results: **VY022872.D**

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

Sample Results: **VY022872.D**

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

QC SAMPLE DATA

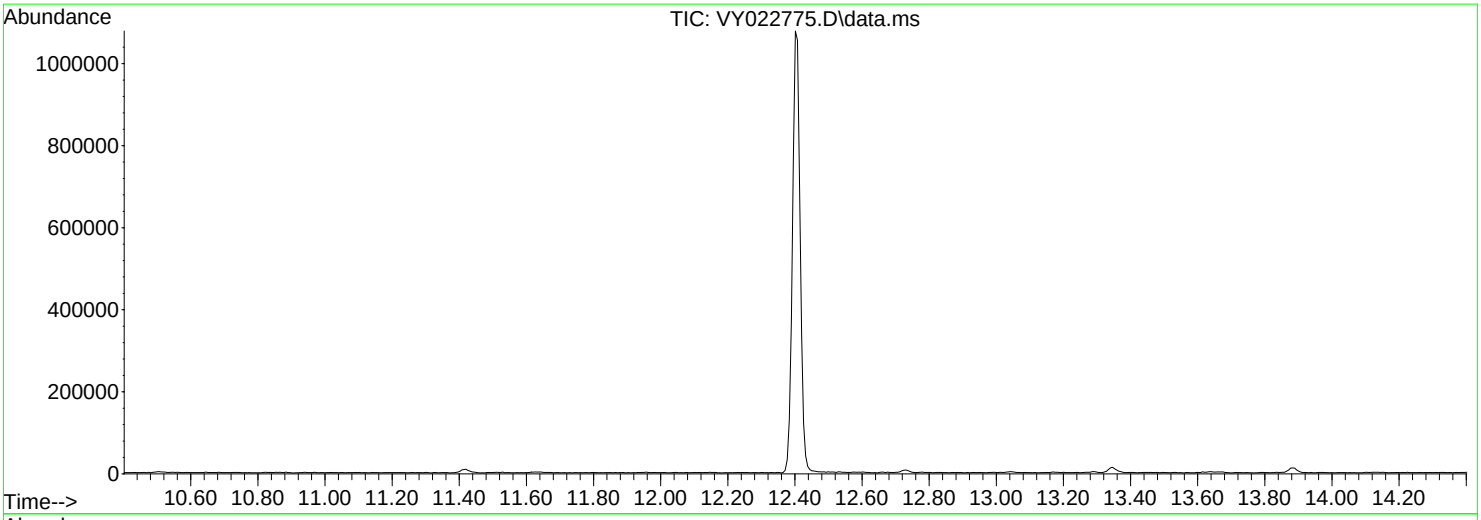
Sample Results: **VY022775.D**

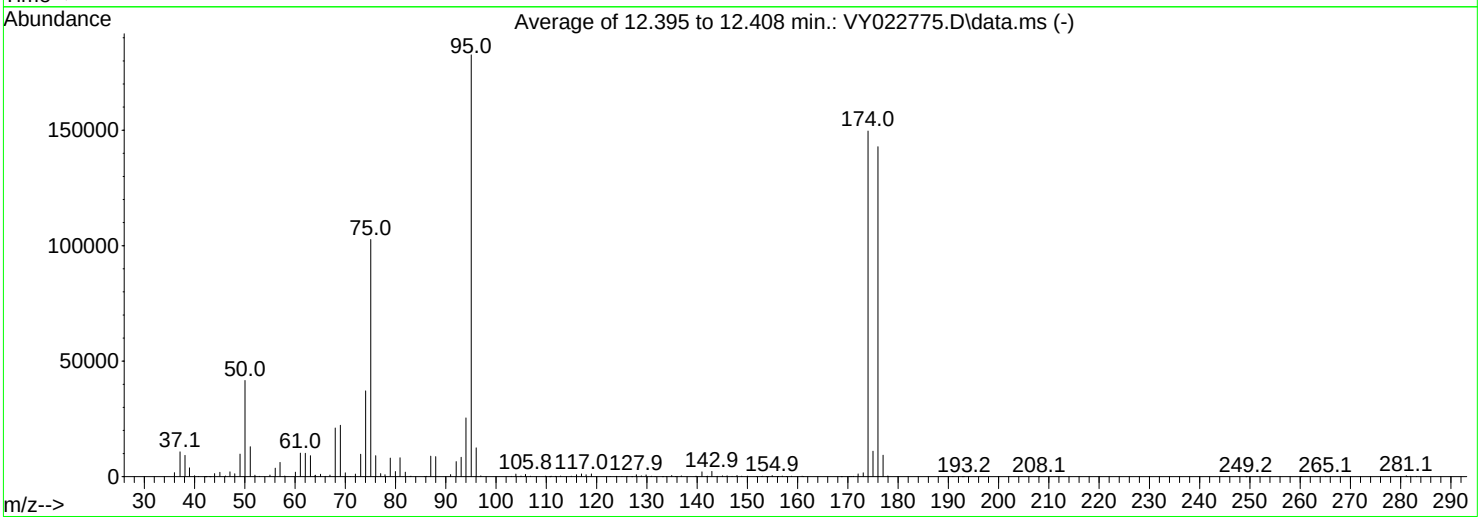
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022775.D
Acq On : 23 Jun 2025 10:17
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

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

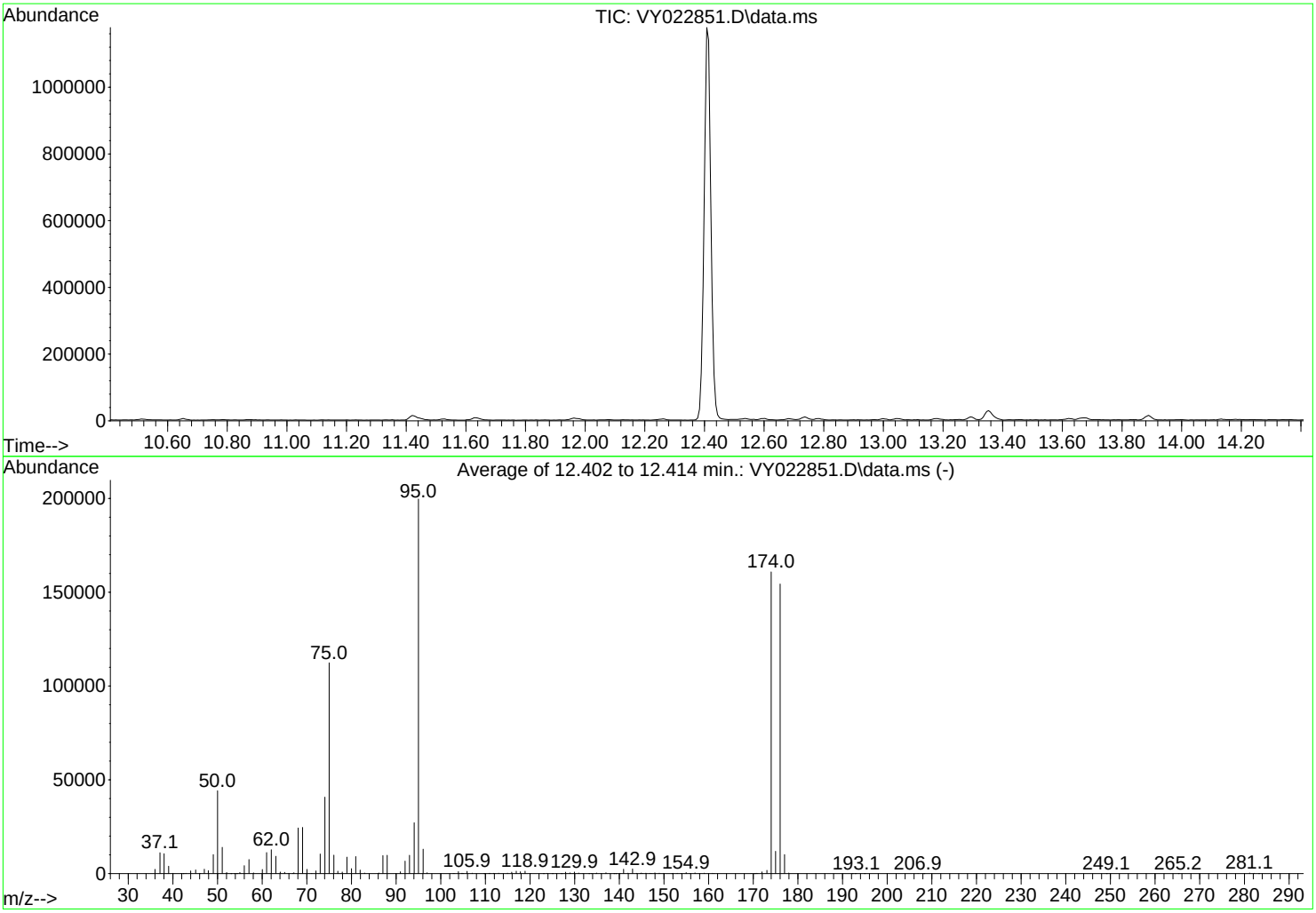
Sample Results: **VY022851.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022851.D
Acq On : 27 Jun 2025 08:31
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 1744

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	44155	PASS
75	95	30	60	56.2	112323	PASS
95	95	100	100	100.0	199701	PASS
96	95	5	9	6.5	13001	PASS
173	174	0.00	2	1.1	1732	PASS
174	95	50	100	80.5	160829	PASS
175	174	5	9	7.4	11902	PASS
176	174	95	101	96.0	154371	PASS
177	176	5	9	6.6	10181	PASS

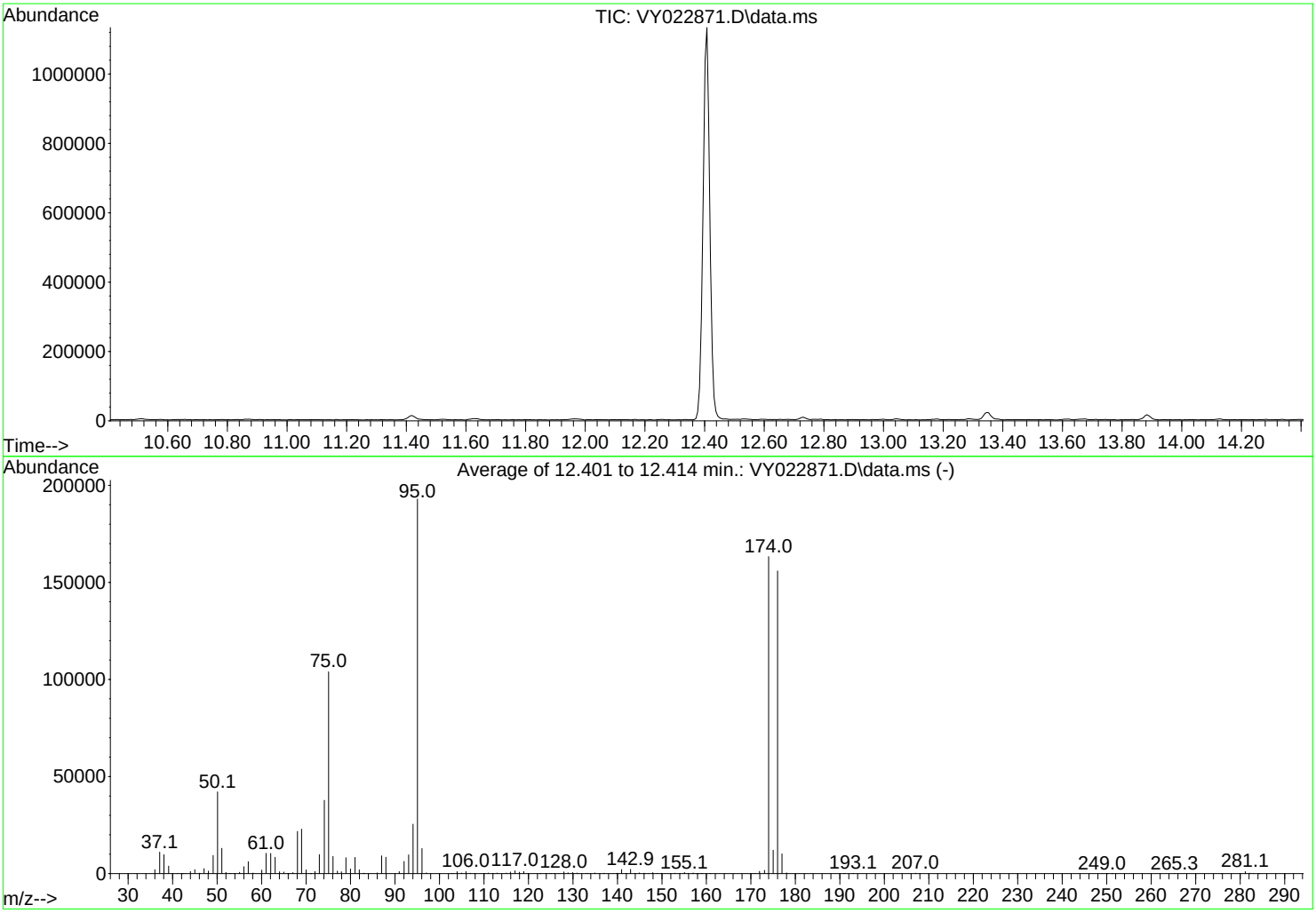
Sample Results: **VY022871.D**

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

Raw Data: **VY022853.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBL01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022853.D	1		06/27/25 11:32	VY062725

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBL01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022853.D	1		06/27/25 11:32	VY062725

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	44.5		63 - 155	89%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		17 - 146	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	359000	7.713			
540-36-3	1,4-Difluorobenzene	656000	8.622			
3114-55-4	Chlorobenzene-d5	604000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	250000	13.346			

Raw Data: **VY022853.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBL01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022853.D	1		06/27/25 11:32	VY062725

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\VY062725\
Data File : VY022853.D
Acq On : 27 Jun 2025 11:32
Operator : SY/MD
Sample : VY0627SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBL01

Quant Time: Jun 27 23:14:28 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

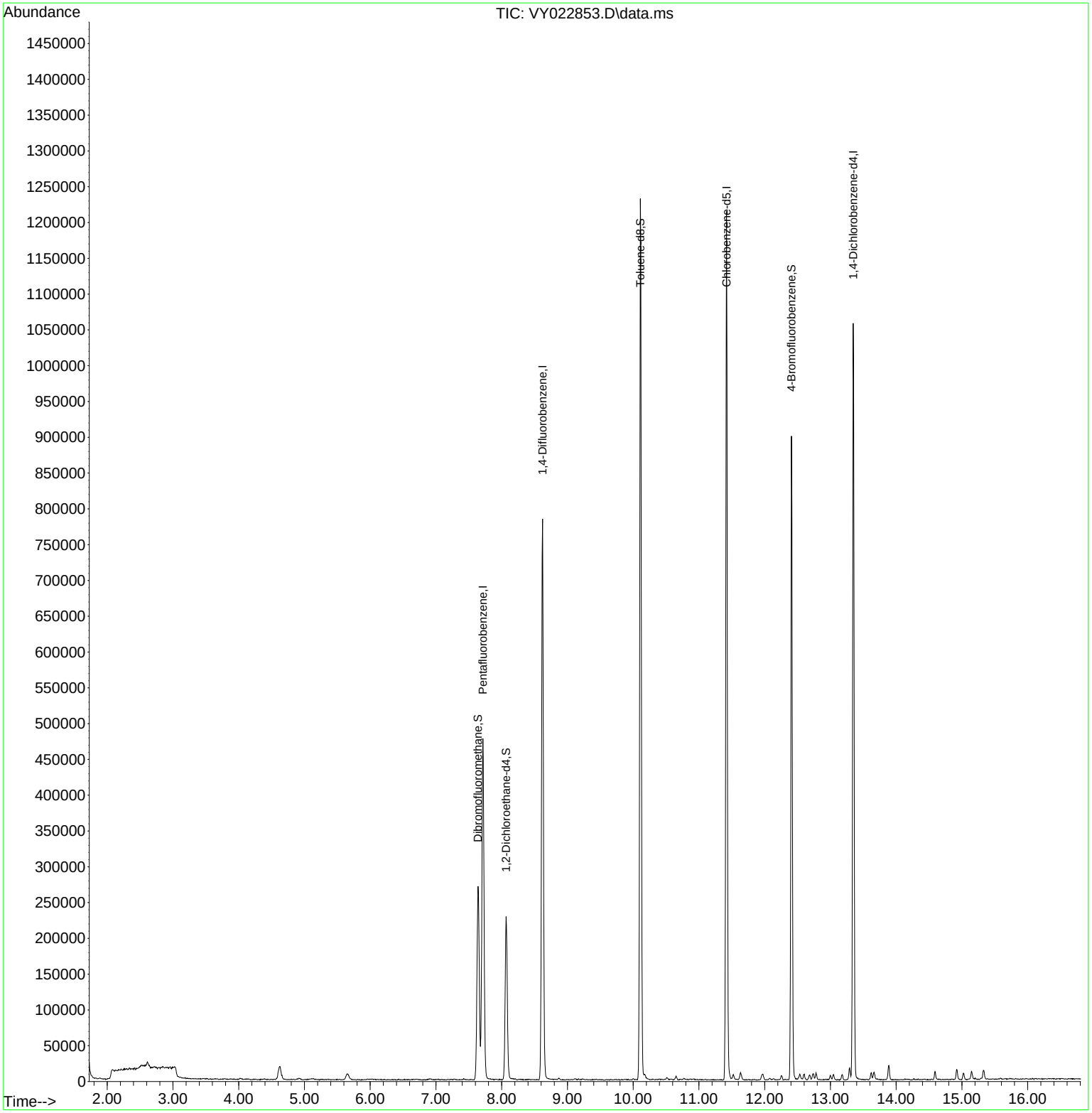
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	358693	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	655911	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	603519	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	250491	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	177954	44.451	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 88.900%			
35) Dibromofluoromethane	7.640	113	196071	49.154	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.300%			
50) Toluene-d8	10.109	98	780045	49.281	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.560%			
62) 4-Bromofluorobenzene	12.408	95	260646	51.223	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.440%			
Target Compounds						Qvalue

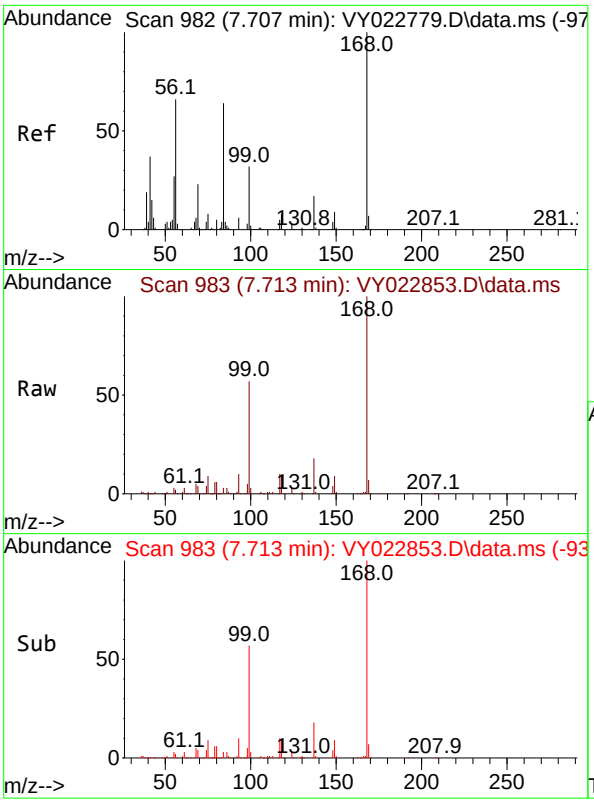
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022853.D
Acq On : 27 Jun 2025 11:32
Operator : SY/MD
Sample : VY0627SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBL01

Quant Time: Jun 27 23:14:28 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



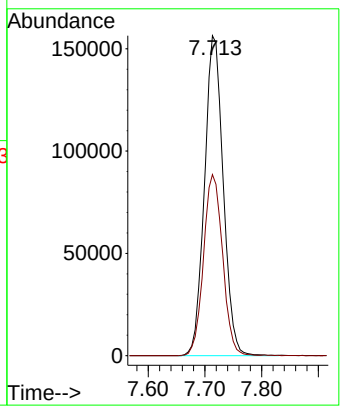


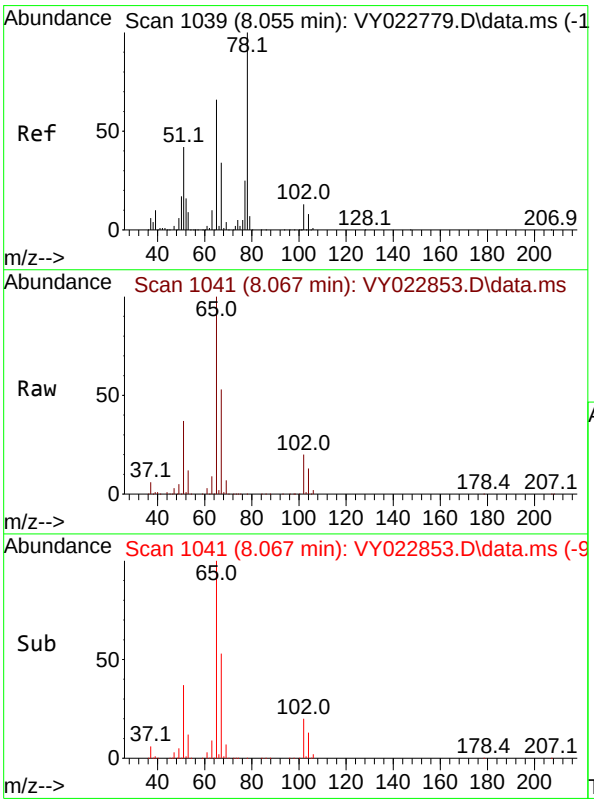
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022853.D
Acq: 27 Jun 2025 11:32

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBL01

Tgt Ion:168 Resp: 358693

Ion	Ratio	Lower	Upper
168	100		
99	56.6	44.3	66.5

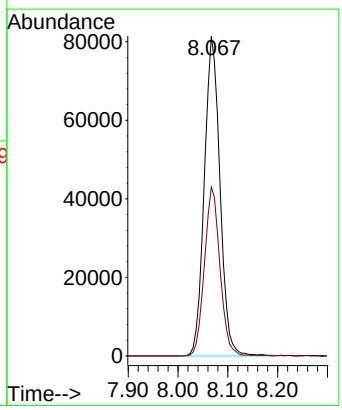


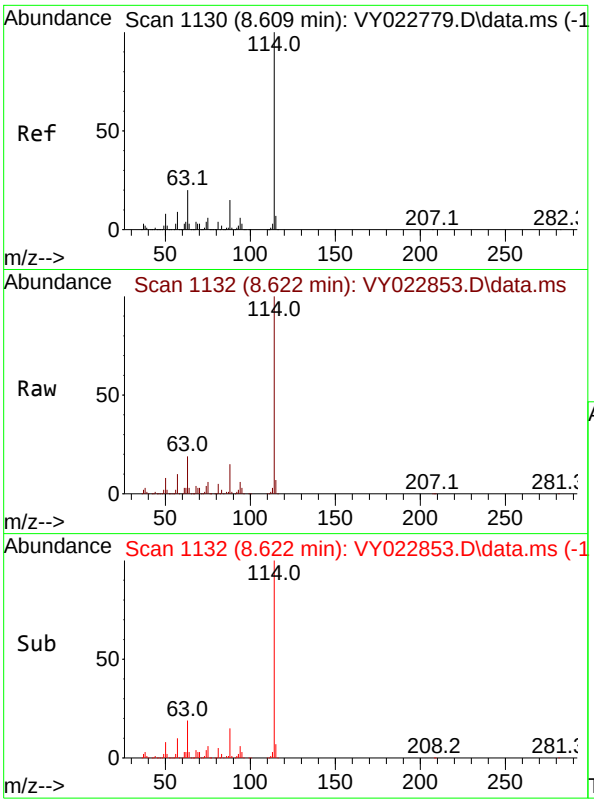


#33
1,2-Dichloroethane-d4
Concen: 44.451 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022853.D
Acq: 27 Jun 2025 11:32

Tgt Ion: 65 Resp: 177954

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.4



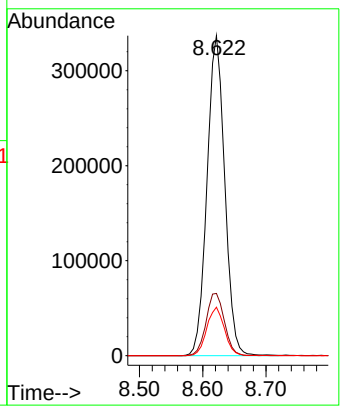


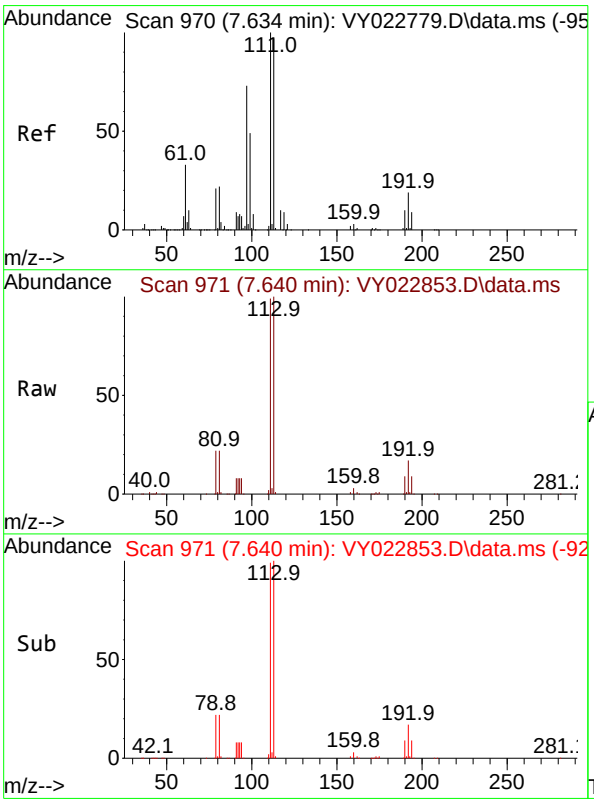
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022853.D
Acq: 27 Jun 2025 11:32

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBL01

Tgt Ion:114 Resp: 655911

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	40.8
88	15.1	0.0	27.8

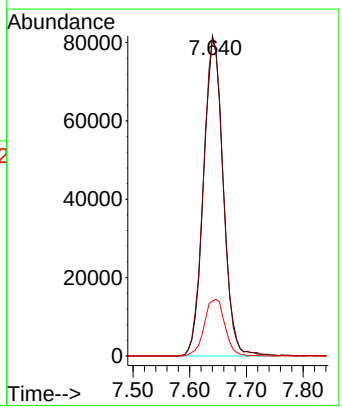


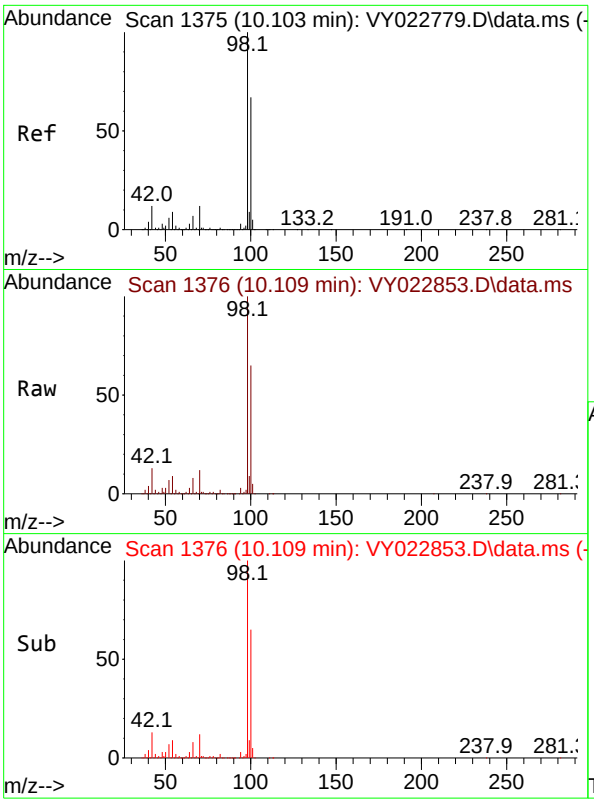


#35
Dibromofluoromethane
Concen: 49.154 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY022853.D
Acq: 27 Jun 2025 11:32

Tgt Ion:113 Resp: 196071

Ion	Ratio	Lower	Upper
113	100		
111	100.7	81.1	121.7
192	18.6	14.2	21.2



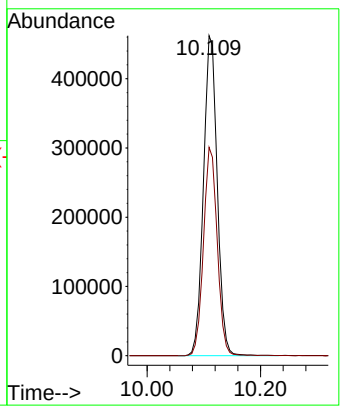


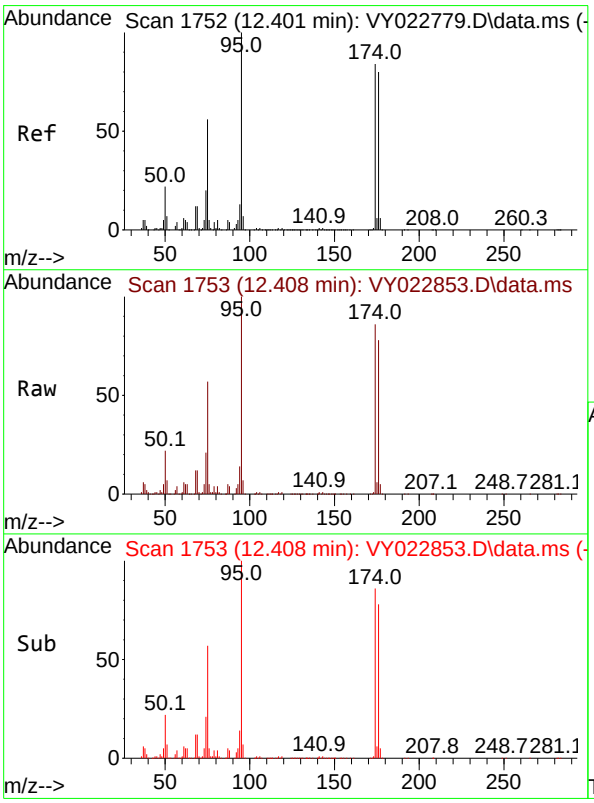
#50
Toluene-d8
Concen: 49.281 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022853.D
Acq: 27 Jun 2025 11:32

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBL01

Tgt Ion: 98 Resp: 780045

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.4	77.0

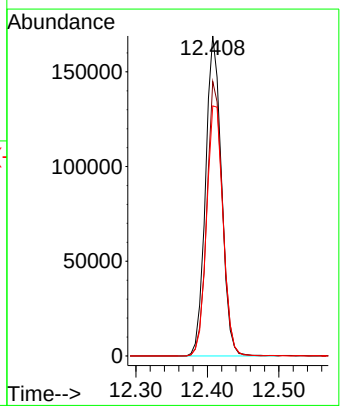


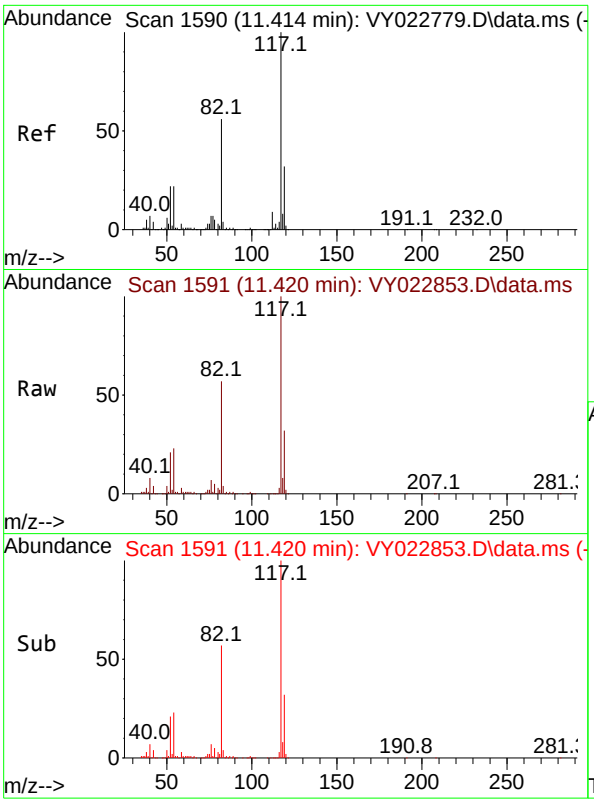


#62
4-Bromofluorobenzene
Concen: 51.223 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022853.D
Acq: 27 Jun 2025 11:32

Tgt Ion: 95 Resp: 260646

Ion	Ratio	Lower	Upper
95	100		
174	84.5	0.0	170.0
176	81.0	0.0	166.2



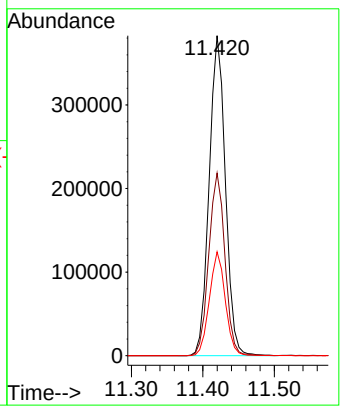


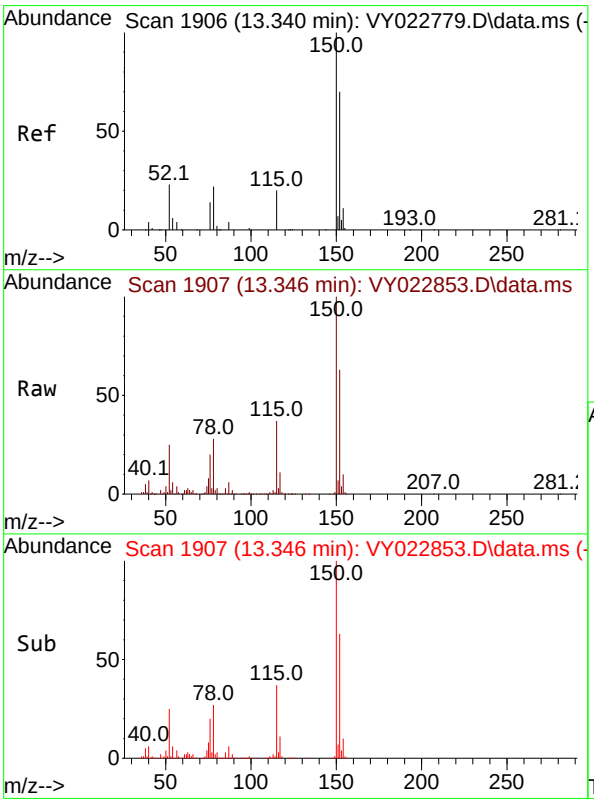
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022853.D
Acq: 27 Jun 2025 11:32

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBL01

Tgt Ion:117 Resp: 603519

Ion	Ratio	Lower	Upper
117	100		
82	57.1	44.6	66.8
119	32.4	25.4	38.0

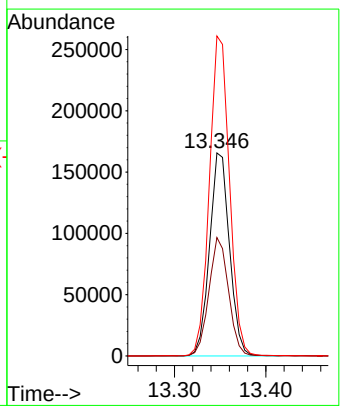




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022853.D
Acq: 27 Jun 2025 11:32

Tgt Ion:152 Resp: 250491

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.9	86.7
150	158.4	0.0	349.6



Sample Results: **VY022853.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022853.D
Acq On : 27 Jun 2025 11:32
Operator : SY/MD
Sample : VY0627SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBL01

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: VY022853.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	64	rBV6	12177	40403	1.94%	0.366%
2	4.628	465	477	487	rBV3	18339	58219	2.80%	0.527%
3	5.653	637	645	656	rVB4	8204	26999	1.30%	0.244%
4	7.640	961	971	977	rBV3	270621	657144	31.56%	5.951%
5	7.713	977	983	995	rVB	475258	1080603	51.90%	9.786%
6	8.067	1031	1041	1054	rBV	228600	513943	24.68%	4.654%
7	8.622	1122	1132	1146	rBV	783731	1540051	73.96%	13.946%
8	10.109	1369	1376	1385	rBV	1230892	2082182	100.00%	18.856%
9	11.420	1584	1591	1602	rBV	1213079	1919534	92.19%	17.383%
10	11.633	1620	1626	1636	rVB2	10629	21256	1.02%	0.192%
11	12.408	1746	1753	1763	rBV	898872	1392785	66.89%	12.613%
12	13.292	1891	1898	1901	rBV2	16433	26615	1.28%	0.241%
13	13.346	1901	1907	1918	rVB	1055503	1600662	76.87%	14.495%
14	13.889	1989	1996	2004	rVB2	20247	35629	1.71%	0.323%
15	14.919	2160	2165	2176	rVB3	14276	24596	1.18%	0.223%
16	15.328	2228	2232	2239	rVB2	12451	22175	1.06%	0.201%

Sum of corrected areas: 11042796

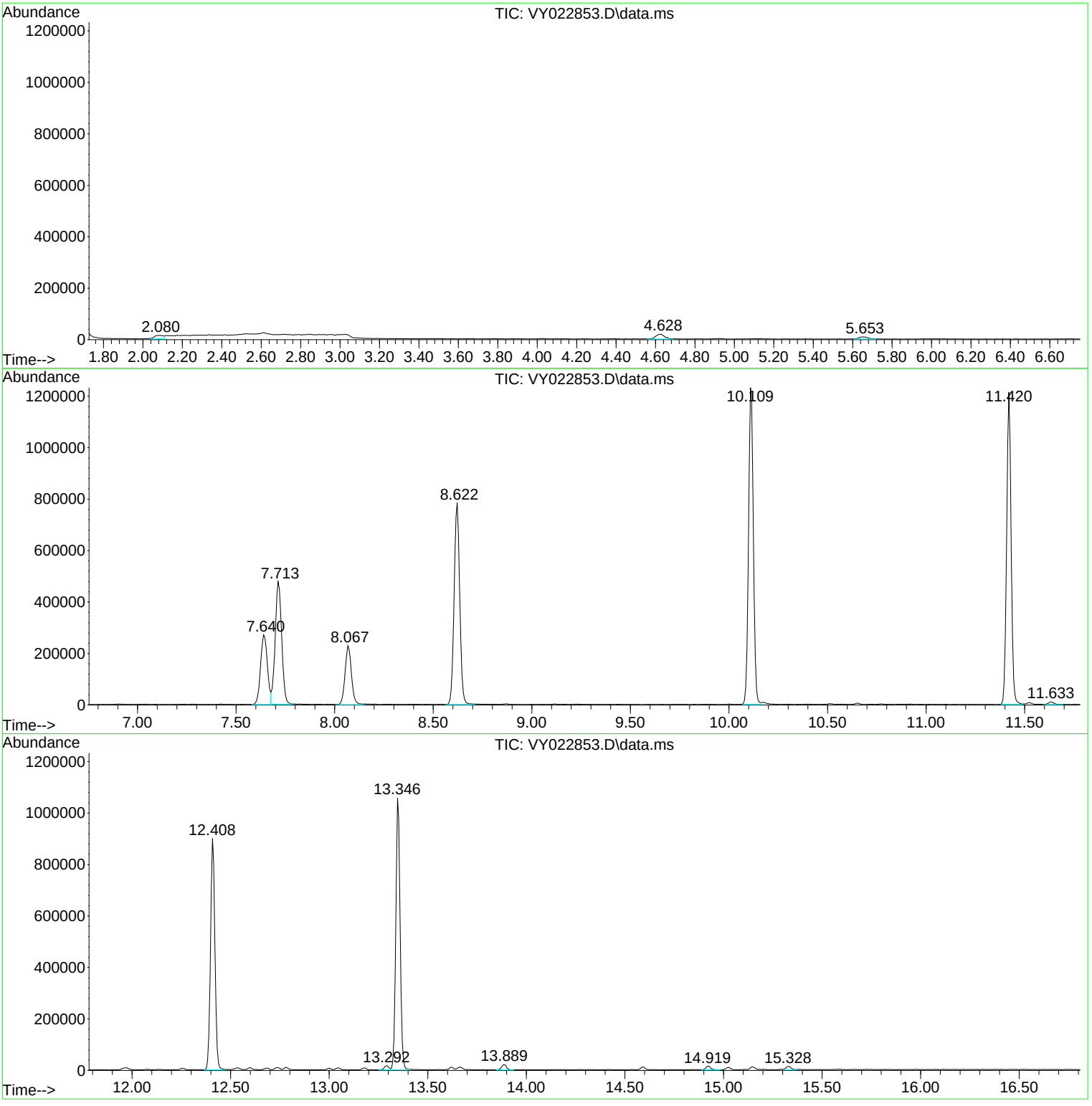
Sample Results: **VY022853.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022853.D
Acq On : 27 Jun 2025 11:32
Operator : SY/MD
Sample : VY0627SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBL01

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



Library Search Compound Report

Sample Results: **VY022853.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022853.D
Acq On : 27 Jun 2025 11:32
Operator : SY/MD
Sample : VY0627SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBL01

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\VY062725\
Data File : VY022853.D
Acq On : 27 Jun 2025 11:32
Operator : SY/MD
Sample : VY0627SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBL01

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

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

Raw Data: **VY022873.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBL01	SDG No.:	Q2436
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:	Prep Date	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

Raw Data: **VY022873.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBL01	SDG No.:	Q2436
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:	Prep Date	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			

Raw Data: **VY022873.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBL01	SDG No.:	Q2436
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:	Prep Date	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

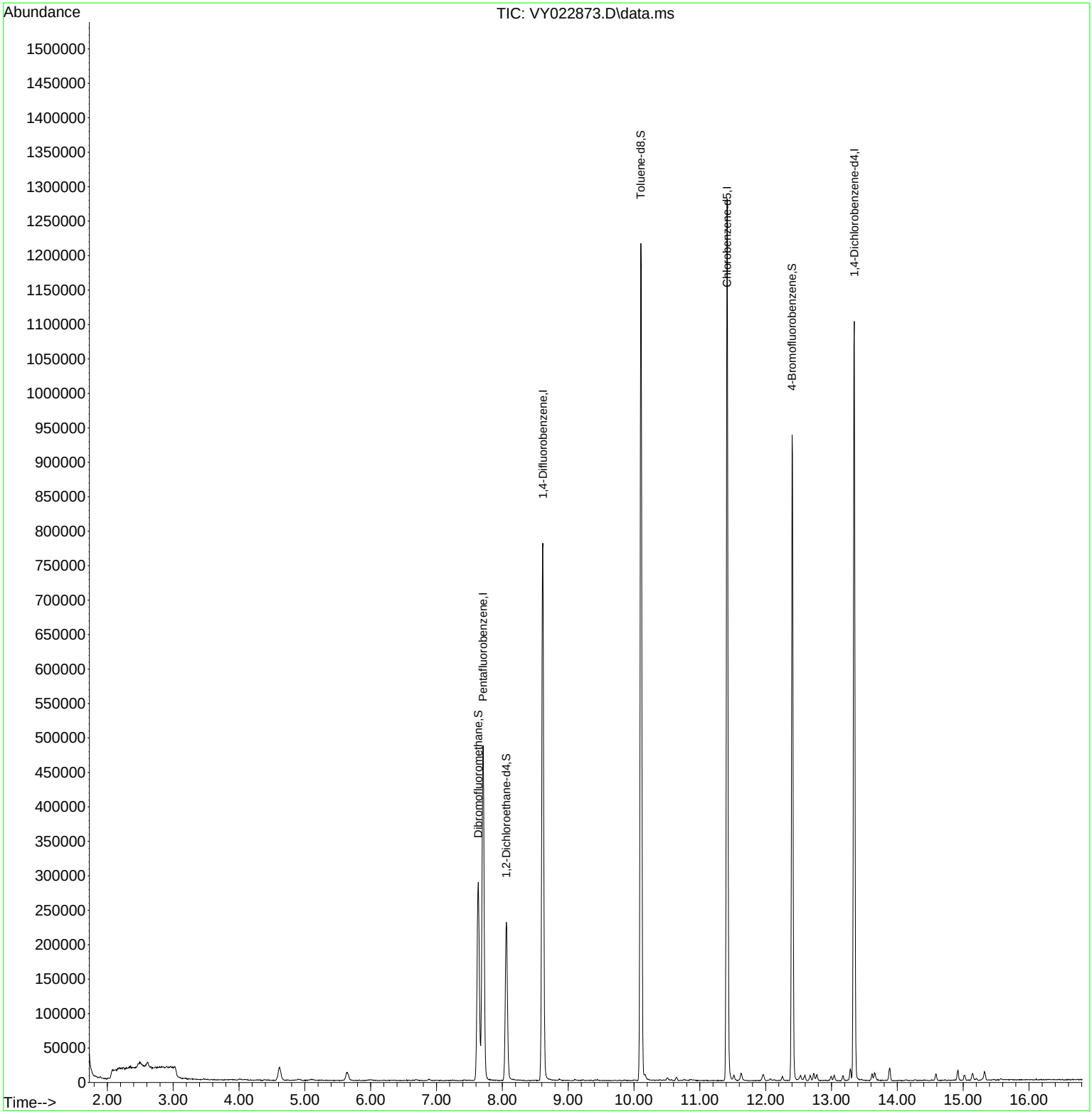
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	371114	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	672085	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	635637	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	274914	50.000	ug/l	0.00
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

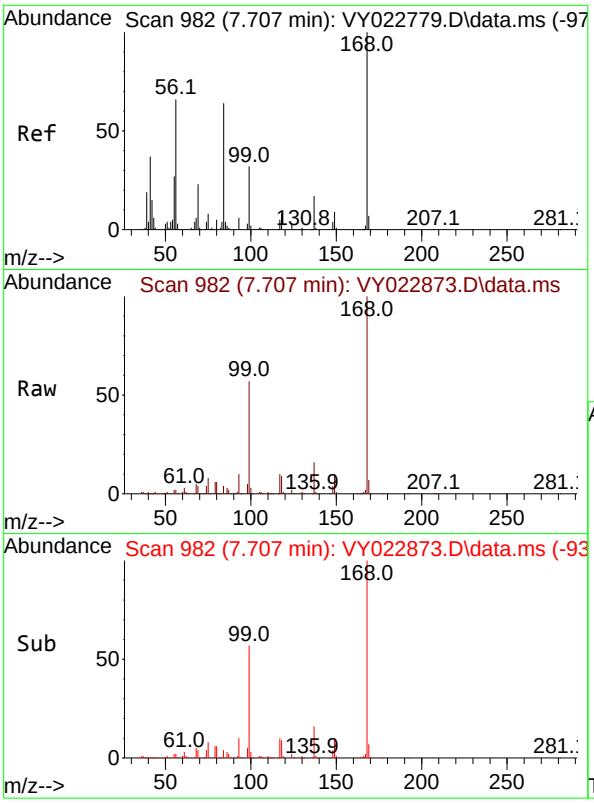
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



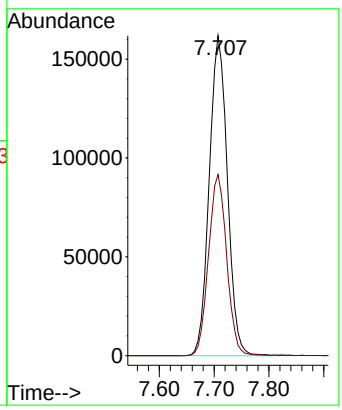


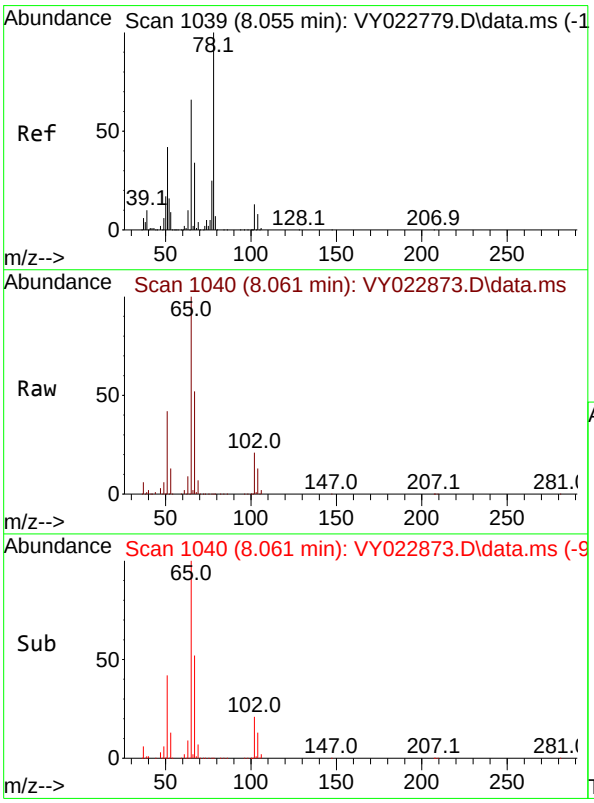
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBL01

Tgt Ion:168 Resp: 371114

Ion	Ratio	Lower	Upper
168	100		
99	56.6	44.3	66.5

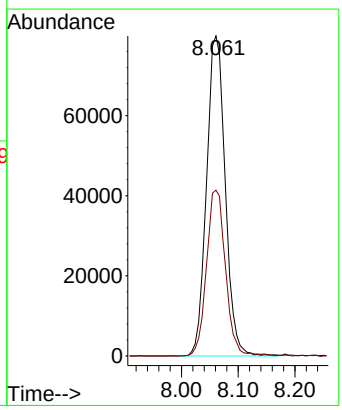


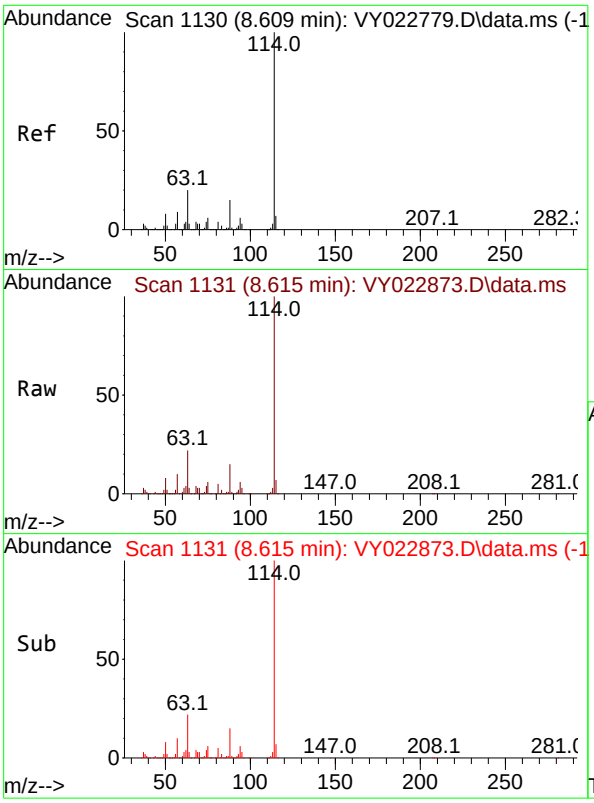


#33
1,2-Dichloroethane-d4
Concen: 44.161 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

Tgt Ion: 65 Resp: 182916

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	103.4



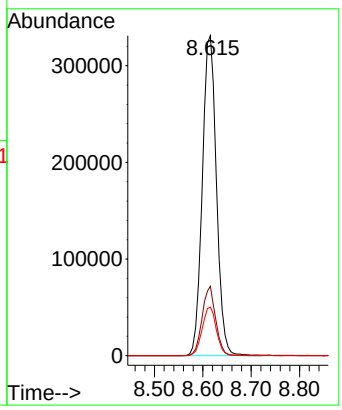


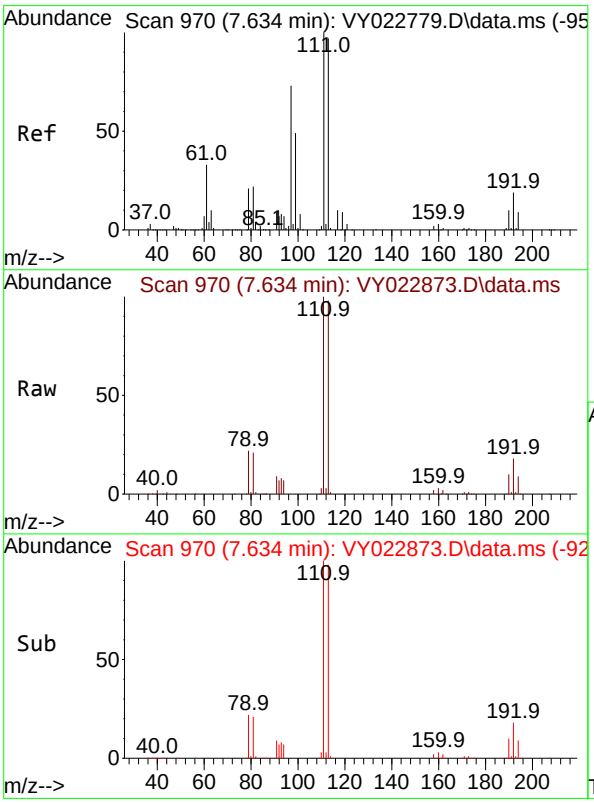
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

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

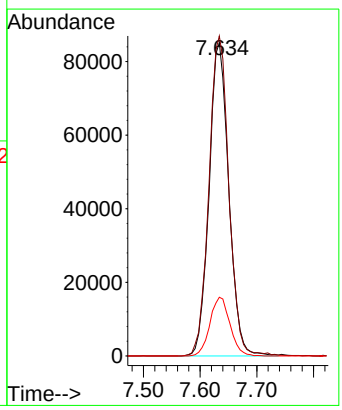


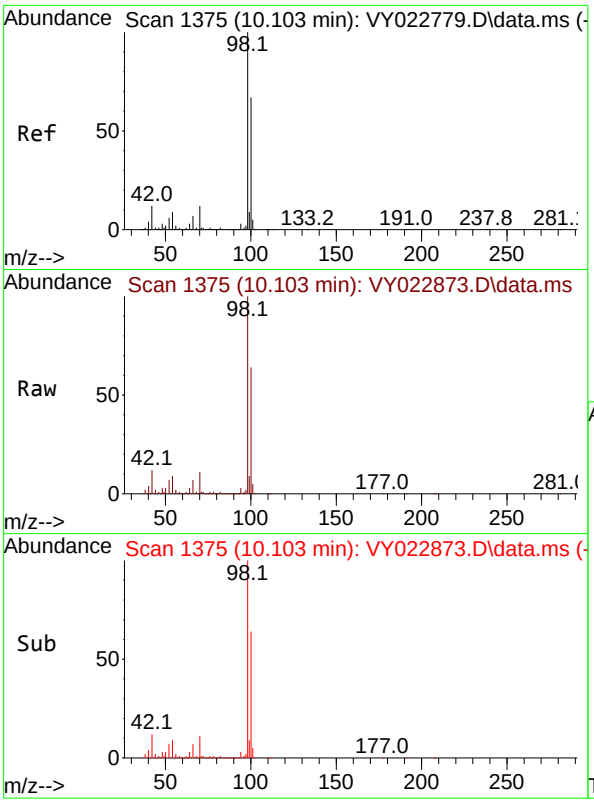


#35
Dibromofluoromethane
Concen: 50.134 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

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



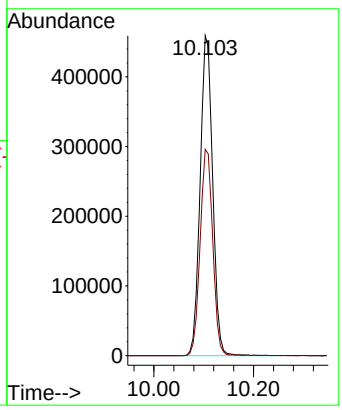


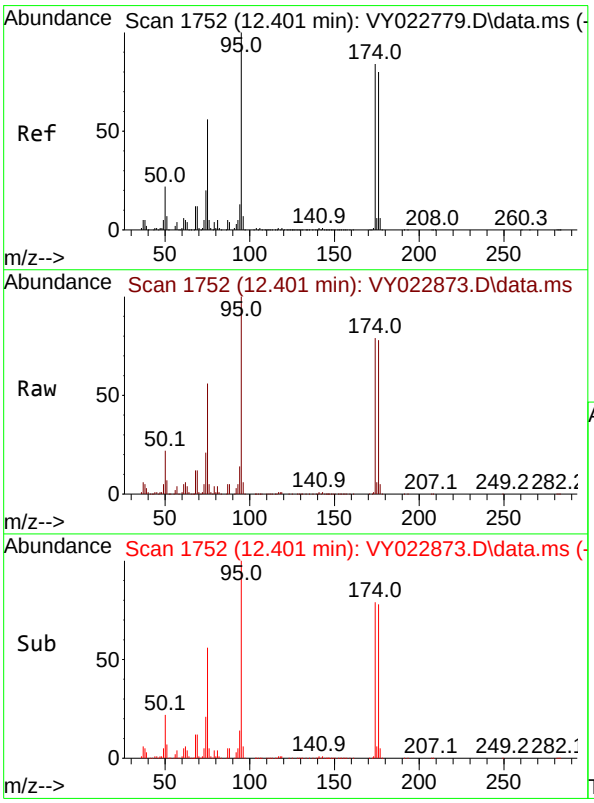
#50
Toluene-d8
Concen: 49.319 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBL01

Tgt Ion: 98 Resp: 799901

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.4	77.0

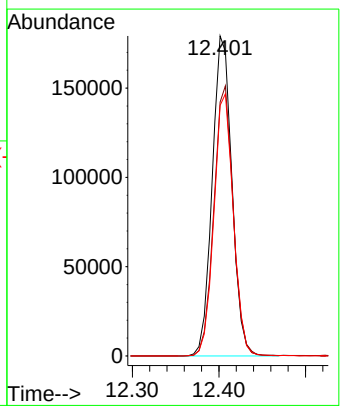


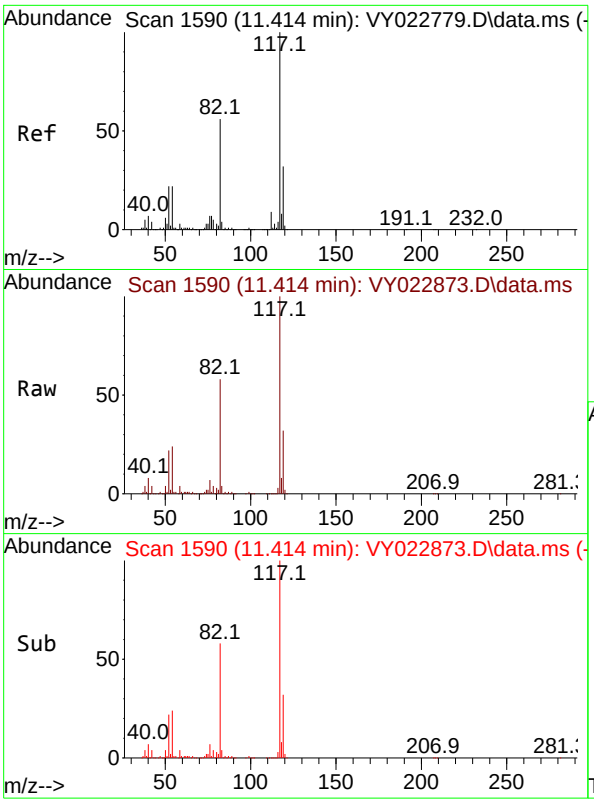


#62
4-Bromofluorobenzene
Concen: 54.204 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

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



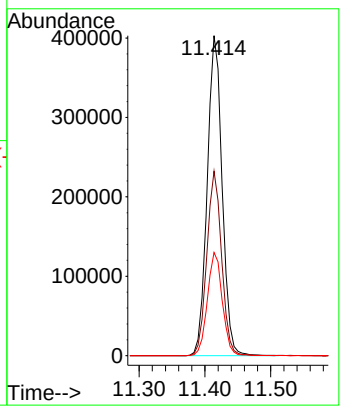


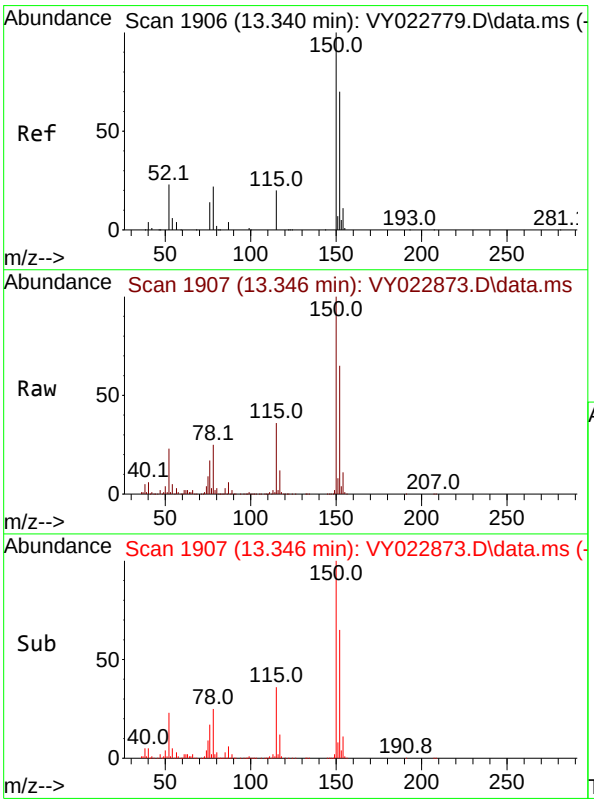
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

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

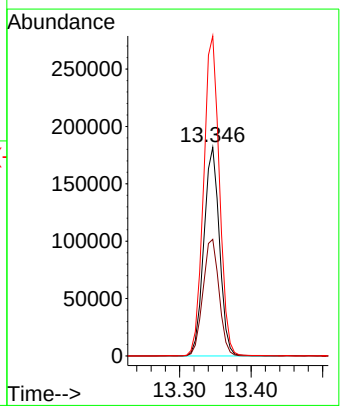




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022873.D
Acq: 30 Jun 2025 11:39

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



Sample Results: **VY022873.D**

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

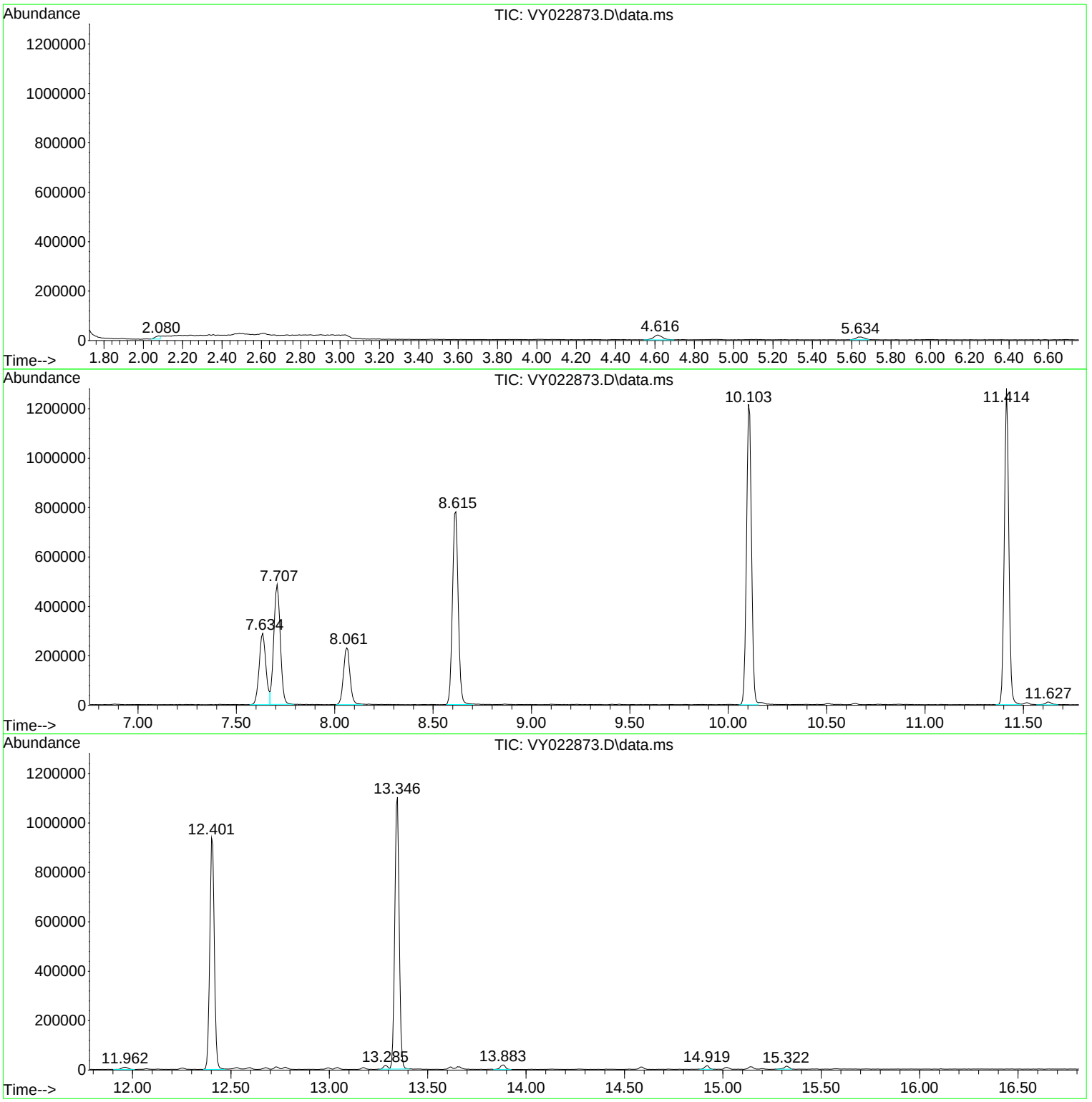
Sample Results: **VY022873.D**

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



Library Search Compound Report

Sample Results: **VY022873.D**

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

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

Raw Data: **VY022854.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBS01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022854.D	1		06/27/25 12:00	VY062725

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	21.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.9		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.8		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.5		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.6		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		1.00	5.00	ug/Kg
67-64-1	Acetone	120		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.9		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	15.2		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	23.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.1		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.1		0.79	5.00	ug/Kg
78-93-3	2-Butanone	94.9		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.7		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.8		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.8		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	20.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.1		0.91	5.00	ug/Kg
71-43-2	Benzene	19.9		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.0		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	19.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.2		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	85.5		3.60	25.0	ug/Kg
108-88-3	Toluene	19.7		0.78	5.00	ug/Kg

Raw Data: **VY022854.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBS01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022854.D	1		06/27/25 12:00	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	18.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	89.6		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	18.6		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.4		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.1		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.5		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.3		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.0		0.82	5.00	ug/Kg
100-42-5	Styrene	19.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	17.8		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.1		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	19.5		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.5		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.3		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		17 - 146	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	439000	7.713			
540-36-3	1,4-Difluorobenzene	740000	8.616			
3114-55-4	Chlorobenzene-d5	623000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	290000	13.346			

Raw Data: **VY022854.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBS01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022854.D	1		06/27/25 12:00	VY062725

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\VY062725\
Data File : VY022854.D
Acq On : 27 Jun 2025 12:00
Operator : SY/MD
Sample : VY0627SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 23:14:53 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	438526	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	740220	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	622783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	290353	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	237300	48.484	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.960%			
35) Dibromofluoromethane	7.640	113	226412	50.295	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.600%			
50) Toluene-d8	10.109	98	900780	50.427	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.860%			
62) 4-Bromofluorobenzene	12.408	95	278170	48.441	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.880%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	76212	20.324	ug/l	98
3) Chloromethane	2.068	50	153177	21.392	ug/l	100
4) Vinyl Chloride	2.208	62	170566	19.067	ug/l	99
5) Bromomethane	2.598	94	161162	22.916	ug/l	97
6) Chloroethane	2.739	64	119116	19.809	ug/l	91
7) Trichlorofluoromethane	3.056	101	183265	18.501	ug/l	99
8) Diethyl Ether	3.458	74	54143	22.131	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	93036	20.552	ug/l	97
10) Methyl Iodide	4.013	142	89767	18.213	ug/l	99
11) Tert butyl alcohol	4.897	59	23523	72.280	ug/l #	94
12) 1,1-Dichloroethene	3.793	96	89530	20.170	ug/l	90
13) Acrolein	3.665	56	35749	81.008	ug/l	97
14) Allyl chloride	4.391	41	136062	19.929	ug/l	97
15) Acrylonitrile	5.073	53	92308	90.431	ug/l	98
16) Acetone	3.885	43	107383	116.080	ug/l	100
17) Carbon Disulfide	4.110	76	285409	19.904	ug/l	99
18) Methyl Acetate	4.391	43	46604	15.212	ug/l	100
19) Methyl tert-butyl Ether	5.128	73	229315	18.973	ug/l	99
20) Methylene Chloride	4.622	84	135989	23.277	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	101113	19.932	ug/l	96
22) Diisopropyl ether	6.025	45	304677	20.095	ug/l	99
23) Vinyl Acetate	5.970	43	807894	96.478	ug/l	99
24) 1,1-Dichloroethane	5.921	63	184095	20.101	ug/l	98
25) 2-Butanone	6.902	43	127761	94.892	ug/l	99
26) 2,2-Dichloropropane	6.890	77	158572	20.656	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	116421	19.750	ug/l	99
28) Bromochloromethane	7.250	49	76249	19.804	ug/l	93
29) Tetrahydrofuran	7.274	42	71998	84.687	ug/l	99
30) Chloroform	7.427	83	187777	19.907	ug/l	99
31) Cyclohexane	7.707	56	168575	20.052	ug/l	94
32) 1,1,1-Trichloroethane	7.622	97	163737	20.087	ug/l	99
36) 1,1-Dichloropropene	7.841	75	139795	20.488	ug/l	99
37) Ethyl Acetate	6.994	43	53619	18.210	ug/l	97
38) Carbon Tetrachloride	7.823	117	141643	19.674	ug/l	100
39) Methylcyclohexane	9.109	83	177560	20.108	ug/l	100
40) Benzene	8.085	78	417986	19.924	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022854.D
Acq On : 27 Jun 2025 12:00
Operator : SY/MD
Sample : VY0627SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 23:14:53 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.226	41	32937m	18.171 ug/l	
42) 1,2-Dichloroethane	8.164	62	109060	18.971 ug/l	98
43) Isopropyl Acetate	8.207	43	106074	17.333 ug/l	97
44) Trichloroethene	8.872	130	104596	19.858 ug/l	99
45) 1,2-Dichloropropane	9.146	63	96682	19.691 ug/l	97
46) Dibromomethane	9.237	93	52823	18.952 ug/l	97
47) Bromodichloromethane	9.426	83	137926	19.190 ug/l	97
48) Methyl methacrylate	9.225	41	49141	16.704 ug/l	93
49) 1,4-Dioxane	9.250	88	9963	302.548 ug/l #	78
51) 4-Methyl-2-Pentanone	9.999	43	265865	85.492 ug/l	96
52) Toluene	10.176	92	261191	19.735 ug/l	99
53) t-1,3-Dichloropropene	10.396	75	120263	18.597 ug/l	96
54) cis-1,3-Dichloropropene	9.859	75	149000	19.871 ug/l	97
55) 1,1,2-Trichloroethane	10.572	97	67633	18.739 ug/l	94
56) Ethyl methacrylate	10.444	69	85618	17.632 ug/l	96
57) 1,3-Dichloropropane	10.719	76	117720	18.695 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	211949	93.503 ug/l	99
59) 2-Hexanone	10.761	43	189382	89.572 ug/l	98
60) Dibromochloromethane	10.914	129	86657	18.588 ug/l	100
61) 1,2-Dibromoethane	11.018	107	62276	18.439 ug/l	95
64) Tetrachloroethene	10.652	164	118010	20.058 ug/l	97
65) Chlorobenzene	11.444	112	275122	20.105 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	90364	19.496 ug/l	98
67) Ethyl Benzene	11.517	91	491906	20.459 ug/l	99
68) m/p-Xylenes	11.627	106	374187	40.260 ug/l	99
69) o-Xylene	11.956	106	175335	20.021 ug/l	99
70) Styrene	11.969	104	284938	19.424 ug/l	100
71) Bromoform	12.133	173	45810	17.750 ug/l #	100
73) Isopropylbenzene	12.255	105	457101	21.287 ug/l	99
74) N-amyl acetate	12.072	43	90892	18.857 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	66265	19.147 ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	53793m	18.147 ug/l	
77) Bromobenzene	12.536	156	99212	20.383 ug/l	98
78) n-propylbenzene	12.597	91	559488	21.580 ug/l	99
79) 2-Chlorotoluene	12.682	91	307095	20.965 ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	368172	21.239 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	21577	18.390 ug/l	99
82) 4-Chlorotoluene	12.779	91	317965	20.666 ug/l	100
83) tert-Butylbenzene	12.999	119	327233	21.405 ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	359527	20.716 ug/l	99
85) sec-Butylbenzene	13.176	105	489803	21.294 ug/l	99
86) p-Isopropyltoluene	13.291	119	402126	21.008 ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	196424	20.094 ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	193857	19.964 ug/l	99
89) n-Butylbenzene	13.615	91	377764	20.981 ug/l	99
90) Hexachloroethane	13.883	117	79506	20.854 ug/l	96
91) 1,2-Dichlorobenzene	13.657	146	168060	19.509 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10274	17.506 ug/l	96
93) 1,2,4-Trichlorobenzene	14.919	180	91175	18.746 ug/l	99
94) Hexachlorobutadiene	15.023	225	53888	19.593 ug/l	99
95) Naphthalene	15.145	128	147096	16.724 ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	76954	18.310 ug/l	99

Sample Results: **VY022854.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022854.D
Acq On : 27 Jun 2025 12:00
Operator : SY/MD
Sample : VY0627SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 23:14:53 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025

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

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

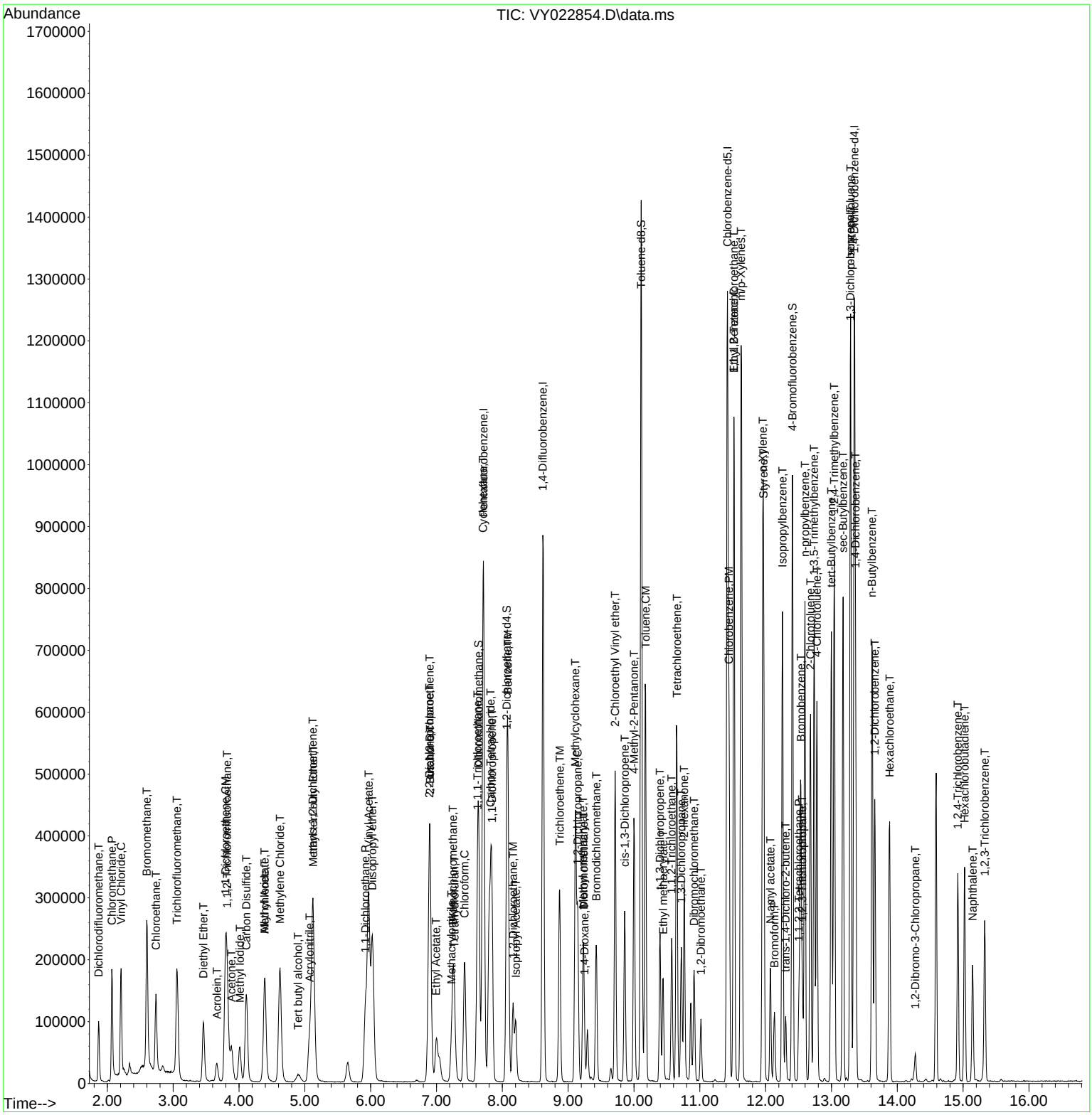
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022854.D
Acq On : 27 Jun 2025 12:00
Operator : SY/MD
Sample : VY0627SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 23:14:53 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025



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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2436
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:	Prep Date	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

Raw Data: **VY022874.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2436
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:	Prep Date	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			

Raw Data: **VY022874.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2436
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:	Prep Date	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

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

	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

Sample Results: **VY022874.D**

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

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

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

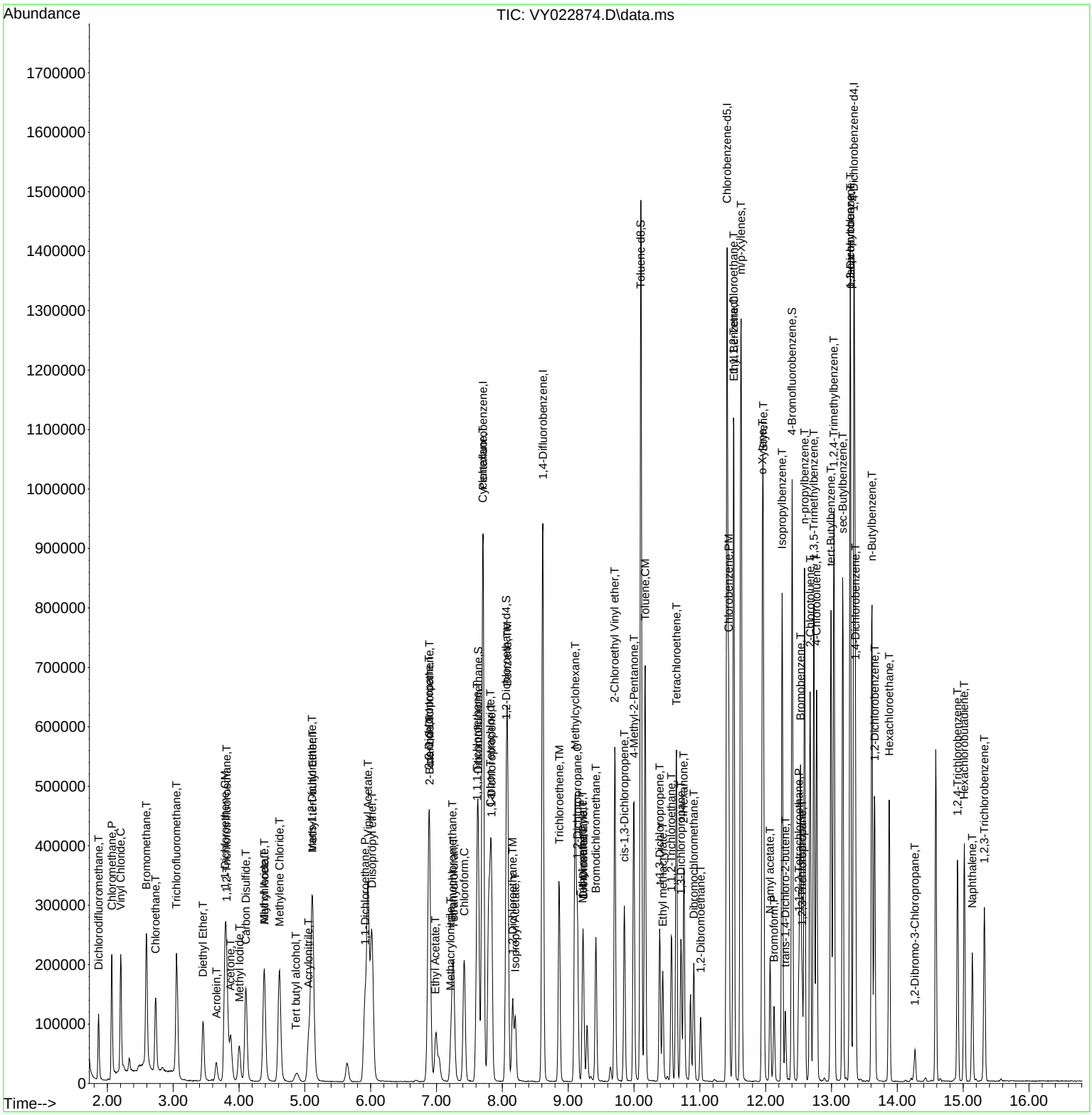
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
Data File : VY022874.D
Acq On : 30 Jun 2025 12:09
Operator : SY/MD
Sample : VY0630SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0630SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025



Raw Data: **VY022855.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBSD01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022855.D	1		06/27/25 12:22	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.9		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.0		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.7		1.10	5.00	ug/Kg
75-00-3	Chloroethane	18.7		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	17.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.5		1.00	5.00	ug/Kg
67-64-1	Acetone	120		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.9		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.5		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.8		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.9		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.1		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.4		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		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	21.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.0		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.5		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.91	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.9		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.8		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	94.0		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBSD01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022855.D	1		06/27/25 12:22	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.1		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.3		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	95.1		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.0		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.9		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.7		0.82	5.00	ug/Kg
100-42-5	Styrene	20.3		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.0		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.6		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.0		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.0		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.2		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.4		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.0		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.4		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	51.0		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		17 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	393000	7.713			
540-36-3	1,4-Difluorobenzene	687000	8.616			
3114-55-4	Chlorobenzene-d5	588000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	274000	13.346			

Raw Data: **VY022855.D**

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:	VY0627SBSD01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022855.D	1		06/27/25 12:22	VY062725

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\VY062725\
Data File : VY022855.D
Acq On : 27 Jun 2025 12:22
Operator : SY/MD
Sample : VY0627SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 23:15:53 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	392671	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	686703	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	587941	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	274040	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	227105	51.820	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.640%			
35) Dibromofluoromethane	7.640	113	215609	51.628	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.260%			
50) Toluene-d8	10.109	98	844961	50.988	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.980%			
62) 4-Bromofluorobenzene	12.401	95	262167	49.212	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	70055	20.864	ug/l	95
3) Chloromethane	2.068	50	141333	22.043	ug/l	99
4) Vinyl Chloride	2.208	62	152677	19.060	ug/l	100
5) Bromomethane	2.598	94	142645	22.651	ug/l	100
6) Chloroethane	2.739	64	100714	18.704	ug/l	95
7) Trichlorofluoromethane	3.056	101	158982	17.924	ug/l	97
8) Diethyl Ether	3.458	74	54919	25.069	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	82802	20.428	ug/l	96
10) Methyl Iodide	4.007	142	92048	20.857	ug/l	98
11) Tert butyl alcohol	4.878	59	24983	85.731	ug/l	95
12) 1,1-Dichloroethene	3.799	96	85649	21.549	ug/l	99
13) Acrolein	3.659	56	36380	92.065	ug/l	99
14) Allyl chloride	4.391	41	134047	21.927	ug/l	95
15) Acrylonitrile	5.061	53	93060	101.814	ug/l	100
16) Acetone	3.879	43	98918	119.416	ug/l	98
17) Carbon Disulfide	4.110	76	267911	20.865	ug/l	100
18) Methyl Acetate	4.385	43	48885	17.820	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	232320	21.467	ug/l	99
20) Methylene Chloride	4.616	84	130076	24.865	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	98254	21.630	ug/l	96
22) Diisopropyl ether	6.025	45	299731	22.077	ug/l	98
23) Vinyl Acetate	5.964	43	818112	109.108	ug/l	99
24) 1,1-Dichloroethane	5.921	63	181202	22.096	ug/l	99
25) 2-Butanone	6.902	43	130119	107.929	ug/l	96
26) 2,2-Dichloropropane	6.890	77	151158	21.989	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	114570	21.705	ug/l	99
28) Bromochloromethane	7.250	49	72313	20.975	ug/l	91
29) Tetrahydrofuran	7.268	42	74446	97.792	ug/l	99
30) Chloroform	7.427	83	181311	21.466	ug/l	98
31) Cyclohexane	7.701	56	153645	20.411	ug/l	99
32) 1,1,1-Trichloroethane	7.622	97	153801	21.071	ug/l	99
36) 1,1-Dichloropropene	7.841	75	126420	19.971	ug/l	98
37) Ethyl Acetate	6.988	43	50797	18.596	ug/l	97
38) Carbon Tetrachloride	7.823	117	132177	19.790	ug/l	99
39) Methylcyclohexane	9.109	83	161729	19.743	ug/l	98
40) Benzene	8.085	78	404813	20.800	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022855.D
Acq On : 27 Jun 2025 12:22
Operator : SY/MD
Sample : VY0627SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 23:15:53 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	32567	19.367	ug/l		96
42) 1,2-Dichloroethane	8.164	62	111640	20.933	ug/l		98
43) Isopropyl Acetate	8.201	43	109655	19.315	ug/l		97
44) Trichloroethene	8.865	130	99580	20.379	ug/l		98
45) 1,2-Dichloropropane	9.146	63	95922	21.059	ug/l		99
46) Dibromomethane	9.231	93	52943	20.475	ug/l		96
47) Bromodichloromethane	9.426	83	138992	20.845	ug/l		97
48) Methyl methacrylate	9.219	41	50434	18.479	ug/l		93
49) 1,4-Dioxane	9.237	88	10483	343.148	ug/l		99
51) 4-Methyl-2-Pentanone	9.999	43	271211	94.008	ug/l		96
52) Toluene	10.170	92	251920	20.518	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	122104	20.353	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	146585	21.073	ug/l		96
55) 1,1,2-Trichloroethane	10.572	97	67889	20.276	ug/l		95
56) Ethyl methacrylate	10.438	69	87830	19.497	ug/l		96
57) 1,3-Dichloropropane	10.719	76	118722	20.323	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	217618	101.814	ug/l		98
59) 2-Hexanone	10.761	43	186577	95.123	ug/l		95
60) Dibromochloromethane	10.914	129	86874	20.087	ug/l		100
61) 1,2-Dibromoethane	11.018	107	62775	20.035	ug/l		96
64) Tetrachloroethene	10.646	164	114102	20.543	ug/l		99
65) Chlorobenzene	11.444	112	270647	20.950	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	88384	20.199	ug/l		98
67) Ethyl Benzene	11.517	91	474480	20.904	ug/l		99
68) m/p-Xylenes	11.627	106	358101	40.812	ug/l		97
69) o-Xylene	11.956	106	171183	20.705	ug/l		100
70) Styrene	11.969	104	281270	20.310	ug/l		99
71) Bromoform	12.133	173	46302	19.004	ug/l	#	98
73) Isopropylbenzene	12.255	105	437377	21.581	ug/l		99
74) N-amyl acetate	12.072	43	91412	20.094	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	65438	20.034	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	51754m	18.499	ug/l		
77) Bromobenzene	12.529	156	97490	21.222	ug/l		99
78) n-propylbenzene	12.597	91	528889	21.614	ug/l		99
79) 2-Chlorotoluene	12.682	91	299611	21.672	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	350335	21.413	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	22438	20.262	ug/l		98
82) 4-Chlorotoluene	12.779	91	305956	21.069	ug/l		100
83) tert-Butylbenzene	12.999	119	308906	21.409	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	351686	21.470	ug/l		99
85) sec-Butylbenzene	13.176	105	463189	21.336	ug/l		100
86) p-Isopropyltoluene	13.291	119	376429	20.836	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	194084	21.036	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	193890	21.156	ug/l		99
89) n-Butylbenzene	13.615	91	355371	20.912	ug/l		99
90) Hexachloroethane	13.877	117	75714	21.042	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	165757	20.387	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10354	18.692	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	91806	19.999	ug/l		97
94) Hexachlorobutadiene	15.023	225	50617	19.499	ug/l		99
95) Naphthalene	15.145	128	156678	18.874	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	76773	19.354	ug/l		99

Sample Results: **VY022855.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022855.D
Acq On : 27 Jun 2025 12:22
Operator : SY/MD
Sample : VY0627SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 23:15:53 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025

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

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

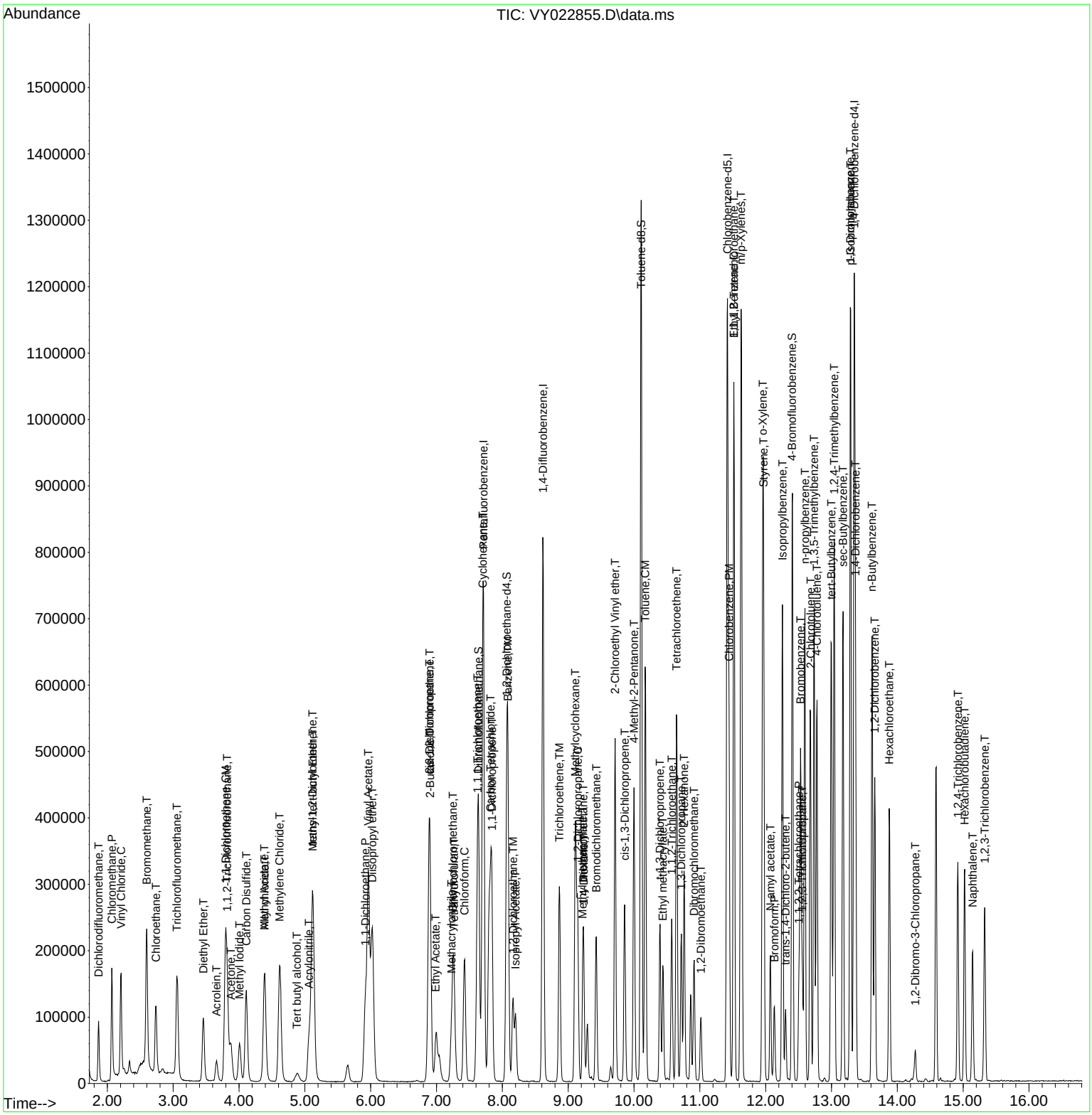
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062725\
Data File : VY022855.D
Acq On : 27 Jun 2025 12:22
Operator : SY/MD
Sample : VY0627SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 23:15:53 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0627SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/30/2025
Supervised By :Semsettin Yesilyurt 06/30/2025



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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	MMDadoda	6/24/2025 8:24:02 AM	Sam	6/24/2025 8:27:42 AM	Peak Integrated by Software
VSTDICC005	VY022776.D	Methacrylonitrile	MMDadoda	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	MMDadoda	6/24/2025 8:23:58 AM	Sam	6/24/2025 8:27:46 AM	Peak Integrated by Software
VSTDICC010	VY022777.D	Methacrylonitrile	MMDadoda	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	MMDadoda	6/24/2025 8:24:01 AM	Sam	6/24/2025 8:27:48 AM	Peak Integrated by Software
VSTDICC020	VY022778.D	Methacrylonitrile	MMDadoda	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	MMDadoda	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	MMDadoda	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	MMDadoda	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	MMDadoda	6/24/2025 8:24:03 AM	Sam	6/24/2025 8:27:54 AM	Peak Integrated by Software
VSTDICV050	VY022783.D	Methacrylonitrile	MMDadoda	6/24/2025 8:24:03 AM	Sam	6/24/2025 8:27:54 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY062725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022852.D	1,2,3-Trichloropropane	mmdadoda	6/30/2025 8:21:26 AM	Sam	6/30/2025 8:24:01 AM	Peak Integrated by Software
VY0627SBS01	VY022854.D	1,2,3-Trichloropropane	mmdadoda	6/30/2025 8:21:25 AM	Sam	6/30/2025 8:24:04 AM	Peak Integrated by Software
VY0627SBS01	VY022854.D	Methacrylonitrile	mmdadoda	6/30/2025 8:21:25 AM	Sam	6/30/2025 8:24:04 AM	Peak Integrated by Software
VY0627SBSD01	VY022855.D	1,2,3-Trichloropropane	mmdadoda	6/30/2025 8:21:26 AM	Sam	6/30/2025 8:24:06 AM	Peak Integrated by Software
VSTDCCC050	VY022870.D	1,2,3-Trichloropropane	mmdadoda	6/30/2025 8:21:30 AM	Sam	6/30/2025 8:24:10 AM	Peak Integrated by Software

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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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch 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	VSTDICC005	VY022776.D	23 Jun 2025 13:38	SY/MD	Ok,M
3	VSTDICC010	VY022777.D	23 Jun 2025 14:00	SY/MD	Ok,M
4	VSTDICC020	VY022778.D	23 Jun 2025 14:23	SY/MD	Ok,M
5	VSTDICCC050	VY022779.D	23 Jun 2025 14:46	SY/MD	Ok,M
6	VSTDICC100	VY022780.D	23 Jun 2025 15:08	SY/MD	Ok,M
7	VSTDICC150	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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY062725

Review By	Mahesh Dadoda	Review On	6/30/2025 8:21:36 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	6/30/2025 8:23:56 AM				
SubDirectory	VY062725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134556
Initial Calibration Stds	
CCC	VP134557,VP134558
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	VY022851.D	27 Jun 2025 08:31	SY/MD	Ok
2	VSTDCCC050	VY022852.D	27 Jun 2025 11:00	SY/MD	Ok,M
3	VY0627SBL01	VY022853.D	27 Jun 2025 11:32	SY/MD	Ok
4	VY0627SBS01	VY022854.D	27 Jun 2025 12:00	SY/MD	Ok,M
5	VY0627SBSD01	VY022855.D	27 Jun 2025 12:22	SY/MD	Ok,M
6	Q2436-01	VY022856.D	27 Jun 2025 12:59	SY/MD	Ok
7	Q2436-02	VY022857.D	27 Jun 2025 13:22	SY/MD	Ok
8	Q2436-03	VY022858.D	27 Jun 2025 13:46	SY/MD	ReRun
9	Q2436-04	VY022859.D	27 Jun 2025 14:09	SY/MD	ReRun
10	Q2436-05	VY022860.D	27 Jun 2025 14:33	SY/MD	ReRun
11	Q2436-06	VY022861.D	27 Jun 2025 14:56	SY/MD	Ok
12	Q2436-07	VY022862.D	27 Jun 2025 15:19	SY/MD	Ok
13	Q2436-08	VY022863.D	27 Jun 2025 15:43	SY/MD	Ok
14	Q2436-09	VY022864.D	27 Jun 2025 16:06	SY/MD	Ok
15	Q2436-10	VY022865.D	27 Jun 2025 16:30	SY/MD	Ok
16	Q2442-01	VY022866.D	27 Jun 2025 16:53	SY/MD	Ok
17	Q2452-03	VY022867.D	27 Jun 2025 17:16	SY/MD	Ok
18	Q2452-07	VY022868.D	27 Jun 2025 17:40	SY/MD	ReRun
19	VIBLK	VY022869.D	27 Jun 2025 18:03	SY/MD	Ok
20	VSTDCCC050	VY022870.D	27 Jun 2025 18:49	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch 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	VP134579
Initial Calibration Stds	
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	ReRun
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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch 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	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022775.D	23 Jun 2025 10:17		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY022776.D	23 Jun 2025 13:38	LR- 58	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY022777.D	23 Jun 2025 14:00		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY022778.D	23 Jun 2025 14:23		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY022779.D	23 Jun 2025 14:46		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY022780.D	23 Jun 2025 15:08		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY062725

Review By	Mahesh Dadoda	Review On	6/30/2025 8:21:36 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/30/2025 8:23:56 AM		
SubDirectory	VY062725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134556
Initial Calibration Stds	
CCC	VP134557,VP134558
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022851.D	27 Jun 2025 08:31		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022852.D	27 Jun 2025 11:00		SY/MD	Ok,M
3	VY0627SBL01	VY0627SBL01	VY022853.D	27 Jun 2025 11:32		SY/MD	Ok
4	VY0627SBS01	VY0627SBS01	VY022854.D	27 Jun 2025 12:00		SY/MD	Ok,M
5	VY0627SBSD01	VY0627SBSD01	VY022855.D	27 Jun 2025 12:22		SY/MD	Ok,M
6	Q2436-01	TP-70	VY022856.D	27 Jun 2025 12:59	vial-A	SY/MD	Ok
7	Q2436-02	TP-69	VY022857.D	27 Jun 2025 13:22	vial-A	SY/MD	Ok
8	Q2436-03	TP-85	VY022858.D	27 Jun 2025 13:46	vial-A Internal Standard Fail	SY/MD	ReRun
9	Q2436-04	TP-86	VY022859.D	27 Jun 2025 14:09	vial-A Internal Standard Fail	SY/MD	ReRun
10	Q2436-05	TP-84	VY022860.D	27 Jun 2025 14:33	vial-A Internal Standard Fail; Surrogate fail	SY/MD	ReRun
11	Q2436-06	TP-83	VY022861.D	27 Jun 2025 14:56	vial-A	SY/MD	Ok
12	Q2436-07	TP-87	VY022862.D	27 Jun 2025 15:19	vial-A	SY/MD	Ok
13	Q2436-08	TP-100	VY022863.D	27 Jun 2025 15:43	vial-A	SY/MD	Ok
14	Q2436-09	TP-99	VY022864.D	27 Jun 2025 16:06	vial-A	SY/MD	Ok
15	Q2436-10	TP-82	VY022865.D	27 Jun 2025 16:30	vial-A	SY/MD	Ok
16	Q2442-01	500-3B	VY022866.D	27 Jun 2025 16:53	vial-A	SY/MD	Ok
17	Q2452-03	TP-5-VOC	VY022867.D	27 Jun 2025 17:16	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY062725

Review By	Mahesh Dadoda	Review On	6/30/2025 8:21:36 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/30/2025 8:23:56 AM		
SubDirectory	VY062725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134556
Initial Calibration Stds	
CCC	VP134557,VP134558
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2452-07	EP-2-VOC	VY022868.D	27 Jun 2025 17:40	vial-A Internal Standard Fail	SY/MD	ReRun
19	VIBLK	VIBLK	VY022869.D	27 Jun 2025 18:03		SY/MD	Ok
20	VSTDCCC050	VSTDCCC050EC	VY022870.D	27 Jun 2025 18:49		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch 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	VP134579
Initial Calibration Stds	
CCC	VP134588,VP134589
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	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 Internal standard fail;Surrogate fail	SY/MD	ReRun
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

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # 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	VP134579
Initial Calibration Stds	
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

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/30/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 06/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:26
Out Date: 06/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136311

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
Q2436-01	TP-70	1	1.15	10.83	11.98	10.04	82.1	
Q2436-02	TP-69	2	1.16	10.29	11.45	9.6	82.0	
Q2436-03	TP-85	3	1.16	10.55	11.71	10.14	85.1	
Q2436-04	TP-86	4	1.18	9.94	11.12	10.00	88.7	
Q2436-05	TP-84	5	1.14	10.40	11.54	10.74	92.3	
Q2436-06	TP-83	6	1.18	10.14	11.32	10.37	90.6	
Q2436-07	TP-87	7	1.18	10.37	11.55	10.5	89.9	
Q2436-08	TP-100	8	1.17	10.27	11.44	9.96	85.6	
Q2436-09	TP-99	9	1.17	10.47	11.64	10.82	92.2	
Q2436-10	TP-82	10	1.12	10.65	11.77	10.92	92.0	
Q2437-05	SVOC-GPC-BLANK	11	1.00	1.00	2.00	2.00	100.0	
Q2437-06	PEST-GPC-BLANK	12	1.00	1.00	2.00	2.00	100.0	
Q2437-07	PEST-GPC-BLANK-SPIKE	13	1.00	1.00	2.00	2.00	100.0	
Q2437-08	PCB-GPC-BLANK	14	1.00	1.00	2.00	2.00	100.0	
Q2437-09	PCB-GPC-BLANK-SPIKE	15	1.00	1.00	2.00	2.00	100.0	
Q2437-10	SVOC-GPC2-BLANK	16	1.00	1.00	2.00	2.00	100.0	
Q2437-11	PEST-GPC2-BLANK	17	1.00	1.00	2.00	2.00	100.0	
Q2437-12	PEST-GPC2-BLANK-SPIKE	18	1.00	1.00	2.00	2.00	100.0	
Q2437-13	PCB-GPC2-BLANK	19	1.00	1.00	2.00	2.00	100.0	
Q2437-14	PCB-GCP2-BLANK-SPIKE	20	1.00	1.00	2.00	2.00	100.0	
Q2440-01	72-11986-1	21	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2440-02	72-11986-2	22	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2440-03	72-11931-1	23	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2440-04	72-11931-2	24	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2440-05	VNJ-227-1	25	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2440-06	VNJ-227-2	26	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2440-07	RT2917-1	27	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2440-08	RT2917-2	28	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/30/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 06/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:26
Out Date: 06/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136311

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
Q2442-01	500-3B	29	1.00	1.00	2.00	2.00	100.0	OILY STONE SAMPLE,100% SOLIDS
Q2442-02	500-3B-E2	30	1.00	1.00	2.00	2.00	100.0	OILY STONE SAMPLE,100% SOLIDS
Q2445-01	CONCRETE-PAD-6-27-25	37	1.00	1.00	2.00	2.00	100.0	CONCRETE-PAD-
Q2446-01	MR-BUR-LNG-19	38	1.00	1.00	2.00	2.00	100.0	oil sample
Q2446-03	MR-BUR-LNG-13	39	1.00	1.00	2.00	2.00	100.0	debris
Q2447-01	COMP-1	40	1.14	10.15	11.29	9.9	86.3	
Q2447-02	COMP-1	41	1.18	9.78	10.96	9.00	80.0	
Q2447-04	COMP-2	42	1.15	10.67	11.82	8.28	66.8	
Q2447-05	COMP-2	43	1.12	11.15	12.27	8.69	67.9	
Q2447-06	LAW-25-0100	44	1.11	10.66	11.77	10.75	90.4	
Q2447-07	LAW-25-0100	45	1.12	9.28	10.4	9.51	90.4	
Q2448-01	JEI041K-1-1	46	1.00	1.00	2.00	2.00	100.0	PILC
Q2448-02	JEI041K-1-2	47	1.00	1.00	2.00	2.00	100.0	PILC
Q2449-01	RBR200032	48	1.00	1.00	2.00	2.00	100.0	STONE SAMPLE, 100% SOLIDS
Q2449-02	RBR200032-E2	49	1.00	1.00	2.00	2.00	100.0	STONE SAMPLE, 100% SOLIDS
Q2450-01	PL-2-062725	50	1.18	10.26	11.44	10.65	92.3	
Q2450-02	PL-2-062725-E2	51	1.19	10.36	11.55	10.65	91.3	
Q2452-01	TP-5	31	1.13	10.61	11.74	10.83	91.4	
Q2452-02	TP-5-EPH	32	1.13	10.70	11.83	10.44	87.0	
Q2452-03	TP-5-VOC	33	1.18	10.59	11.77	10.84	91.2	
Q2452-05	EP-2	34	1.11	10.66	11.77	10.38	87.0	
Q2452-06	EP-2-EPH	35	1.18	10.01	11.19	10.36	91.7	
Q2452-07	EP-2-VOC	36	1.14	10.43	11.57	10.05	85.4	
Q2457-01	OK-02-062725	52	1.12	10.47	11.59	10.87	93.1	
Q2457-02	OK-02-062725-E2	53	1.19	10.28	11.47	10.75	93.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 13631

WorkList Name : %1-062725 **WorkList ID :** 190440 **Department :** Wet-Chemistry **Date :** 06-27-2025 10:02:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2436-01	TP-70	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/25/2025	Chemtech -SO
Q2436-02	TP-69	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/25/2025	Chemtech -SO
Q2436-03	TP-85	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/25/2025	Chemtech -SO
Q2436-04	TP-86	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/25/2025	Chemtech -SO
Q2436-05	TP-84	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/25/2025	Chemtech -SO
Q2436-06	TP-83	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/25/2025	Chemtech -SO
Q2436-07	TP-87	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/25/2025	Chemtech -SO
Q2436-08	TP-100	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/26/2025	Chemtech -SO
Q2436-09	TP-99	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/26/2025	Chemtech -SO
Q2436-10	TP-82	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/26/2025	Chemtech -SO
Q2437-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/26/2025	Chemtech -SO
Q2437-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/20/2025	Chemtech -SO
Q2437-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/20/2025	Chemtech -SO
Q2437-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/20/2025	Chemtech -SO
Q2437-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/20/2025	Chemtech -SO
Q2437-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/20/2025	Chemtech -SO
Q2437-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/20/2025	Chemtech -SO
Q2437-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/20/2025	Chemtech -SO
Q2437-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/20/2025	Chemtech -SO
Q2437-14	PCB-GCP2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/20/2025	Chemtech -SO
Q2440-01	72-11986-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO

Date/Time 06/27/25 16:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 06/27/25 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

VB13631

WorkList Name : %1-062725 **WorkList ID :** 190440 **Department :** Wet-Chemistry **Date :** 06-27-2025 10:02:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2440-02	72-11986-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2440-03	72-11931-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2440-04	72-11931-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2440-05	VNJ-227-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2440-06	VNJ-227-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2440-07	RT2917-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2440-08	RT2917-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2442-01	500-3B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2442-02	500-3B-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2445-01	CONCRETE-PAD-6-27-25	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2446-01	MR-BU-LNG-19	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2446-03	MR-BU-LNG-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2447-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2447-02	COMP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2447-04	COMP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2447-05	COMP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2447-06	LAW-25-0100	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2447-07	LAW-25-0100	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2448-01	JEI041K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2448-02	JEI041K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/27/2025	Chemtech -SO
Q2449-01	RBR200032	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO

Date/Time 061725 16:10

Raw Sample Received by: [signature] (WC)

Raw Sample Relinquished by: [signature]

Date/Time 061725 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature] (WC)

WORKLIST(Hardcopy Internal Chain)

VB13631

WorkList Name : %1-062725 **WorkList ID :** 190440 **Department :** Wet-Chemistry **Date :** 06-27-2025 10:02:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2449-02	RBR200032-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2450-01	PL-02-062725	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	06/27/2025	Chemtech -SO
Q2450-02	PL-02-062725-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	06/27/2025	Chemtech -SO
Q2452-01	TP-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	A22	06/27/2025	Chemtech -SO
Q2452-02	TP-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A22	06/27/2025	Chemtech -SO
Q2452-03	TP-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A22	06/27/2025	Chemtech -SO
Q2452-05	EP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A22	06/27/2025	Chemtech -SO
Q2452-06	EP-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A22	06/27/2025	Chemtech -SO
Q2452-07	EP-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A22	06/27/2025	Chemtech -SO
Q2457-01	OK-02-062725	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	06/27/2025	Chemtech -SO
Q2457-02	OK-02-062725-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	06/27/2025	Chemtech -SO

Date/Time 06/27/25 16:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 06/27/25 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q2436
QUOTE NO.
COC Number 2046480

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#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

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 + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: TCL VOC
2
3. TCL SVOC
4
5: TAL METALS
6 PESTICIDES
7 HERBICIDES
8 DRO/GRO
9 PCBs

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	TP-70	S		X	6/25/25	0800	6	X	X	X	X	X	X	X			E
2.	TP-69	S		X	6/25/25	0840	6	X	X	X	X	X	X	X			E
3.	TP-85	S		X	6/25/25	0938	6	X	X	X	X	X	X	X			E
4.	TP-86	S		X	6/25/25	1020	6	X	X	X	X	X	X	X			E
5.	TP-84	S		X	6/25/25	1100	6	X	X	X	X	X	X	X			E
6.	TP-83	S		X	6/25/25	1135	6	X	X	X	X	X	X	X			E
7.	TP-87	S		X	6/26/25	0800	6	X	X	X	X	X	X	X			E
8.	TP-100	S		X	6/26/25	0845	6	X	X	X	X	X	X	X			E
9.	TP-99	S		X	6/26/25	0930	6	X	X	X	X	X	X	X			E
10.	TP-82	S		X	6/26/25	1020	6	X	X	X	X	X	X	X			E

PRESERVATIVES: ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	6/26/25 1500	1 1500 6-26-25
2.	DATE/TIME:	2.
3.	DATE/TIME: 1630 6-26-25	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.4 °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2336 PSEG03
Client Name : PSEG
Client Contact : Andrew Goddard
Invoice Name : PSEG
Invoice Contact : Andrew Goddard

Order Date : 6/16/2025 12:39:35 PM
Project Name : Row Watchung Bridge Repl
Receive DateTime : 6/16/2025 12:10:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ Level-2 ✓
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2336-01	WBR-1	Solid	06/16/2025	08:30					
					VOC-TCLVOA-10	Bayshore	8260D		3 Bus. Days
Q2336-03	WBR-2	Solid	06/16/2025	09:03					
					VOC-TCLVOA-10	Bayshore	8260D		3 Bus. Days

Relinquished By : JM
Date / Time : 06/16/25 1250

Received By : [signature]
Date / Time : 06/16/25 12:50 Rgtt 6 FZ2

Storage Area : VOA Refridgerator Room