284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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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LAB CHRONICLE

OrderID:	Q2413	**OrderDate:**	6/24/2025 3:05:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2413-01	**TP-35**	**SOIL**			**06/23/25**			**06/24/25**
			VOC-TCLVOA-10	8260D			06/26/25	
Q2413-02	**TP-34**	**SOIL**			**06/23/25**			**06/24/25**
			VOC-TCLVOA-10	8260D			06/25/25	
Q2413-03	**TP-77**	**SOIL**			**06/23/25**			**06/24/25**
			VOC-TCLVOA-10	8260D			06/25/25	
Q2413-04	**TP-74**	**SOIL**			**06/23/25**			**06/24/25**
			VOC-TCLVOA-10	8260D			06/25/25	
Q2413-05	**TP-73**	**SOIL**			**06/23/25**			**06/24/25**
			VOC-TCLVOA-10	8260D			06/25/25	
Q2413-06	**TP-72**	**SOIL**			**06/24/25**			**06/24/25**
			VOC-TCLVOA-10	8260D			06/26/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2413

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**TP-35**								
Q2413-01	TP-35	SOIL	Toluene		2.50	J	0.67	4.30	ug/Kg
			Total Voc :		2.50				
			Total Concentration:		2.50				
Client ID:	**TP-34**								
Q2413-02	TP-34	SOIL	Methylene Chloride		6.50	J	2.90	8.20	ug/Kg
			Total Voc :		6.50				
Q2413-02	TP-34	SOIL	Naphthalene, 2-ethenyl-	*	6.80	J	0	0	ug/Kg
			Total Tics :		6.80				
			Total Concentration:		13.3				
Client ID:	**TP-77**								
Q2413-03	TP-77	SOIL	Methylene Chloride		5.10	J	3.30	9.20	ug/Kg
			Total Voc :		5.10				
			Total Concentration:		5.10				
Client ID:	**TP-74**								
Q2413-04	TP-74	SOIL	Methylene Chloride		5.60	J	3.00	8.60	ug/Kg
			Total Voc :		5.60				
			Total Concentration:		5.60				
Client ID:	**TP-73**								
Q2413-05	TP-73	SOIL	Acetone		120		4.90	26.1	ug/Kg
Q2413-05	TP-73	SOIL	Methylene Chloride		8.20	J	3.70	10.4	ug/Kg
Q2413-05	TP-73	SOIL	2-Butanone		19.3	J	6.80	26.1	ug/Kg
			Total Voc :		148				
			Total Concentration:		148				
Client ID:	**TP-72**								
Q2413-06	TP-72	SOIL	Methylene Chloride		6.20	J	3.10	8.80	ug/Kg
Q2413-06	TP-72	SOIL	Methylcyclohexane		13.8		0.80	4.40	ug/Kg
Q2413-06	TP-72	SOIL	m/p-Xylenes		3.40	J	1.10	8.80	ug/Kg
Q2413-06	TP-72	SOIL	o-Xylene		2.00	J	0.72	4.40	ug/Kg
			Total Voc :		25.4				
Q2413-06	TP-72	SOIL	Octane	*	37.8	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Heptane, 3-methyl-	*	21.4	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	2-Acetylcyclopentanone	*	66.8	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, ethyl-	*	33.7	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,3,5-trimethyl-	*	21.6	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2-dimethyl-, cis	*	22.6	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,3-dimethyl-, tra	*	45.0	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Octane, 3-methyl-	*	22.7	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,1,3-trimethyl-	*	21.8	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2413

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2-dimethyl-, tra	*	29.5	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	1,2,4-Trimethylbenzene	*	1.10	J	0.56	4.40	ug/Kg
			Total Tics :		324				
			Total Concentration:		349				

QC SUMMARY

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Surrogate Summary

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2413-01	TP-35	1,2-Dichloroethane-d4	50	47.4	95	63	155
		Dibromofluoromethane	50	50.5	101	70	134
		Toluene-d8	50	50.3	101	74	123
		4-Bromofluorobenzene	50	54.9	110	17	146
Q2413-02	TP-34	1,2-Dichloroethane-d4	50	38.7	77	63	155
		Dibromofluoromethane	50	46.1	92	70	134
		Toluene-d8	50	49.1	98	74	123
		4-Bromofluorobenzene	50	50.6	101	17	146
Q2413-03	TP-77	1,2-Dichloroethane-d4	50	38.9	78	63	155
		Dibromofluoromethane	50	45.9	92	70	134
		Toluene-d8	50	49.1	98	74	123
		4-Bromofluorobenzene	50	48.0	96	17	146
Q2413-04	TP-74	1,2-Dichloroethane-d4	50	43.3	87	63	155
		Dibromofluoromethane	50	49.2	98	70	134
		Toluene-d8	50	49.7	99	74	123
		4-Bromofluorobenzene	50	49.3	99	17	146
Q2413-05	TP-73	1,2-Dichloroethane-d4	50	46.3	93	63	155
		Dibromofluoromethane	50	49.4	99	70	134
		Toluene-d8	50	49.0	98	74	123
		4-Bromofluorobenzene	50	50.3	101	17	146
Q2413-06	TP-72	1,2-Dichloroethane-d4	50	47.8	96	63	155
		Dibromofluoromethane	50	50.5	101	70	134
		Toluene-d8	50	57.0	114	74	123
		4-Bromofluorobenzene	50	53.8	108	17	146
VY0625SBL01	VY0625SBL01	1,2-Dichloroethane-d4	50	48.2	96	63	155
		Dibromofluoromethane	50	49.8	100	70	134
		Toluene-d8	50	49.3	99	74	123
		4-Bromofluorobenzene	50	53.3	107	17	146
VY0625SBS01	VY0625SBS01	1,2-Dichloroethane-d4	50	50.1	100	63	155
		Dibromofluoromethane	50	50.1	100	70	134
		Toluene-d8	50	51.1	102	74	123
		4-Bromofluorobenzene	50	49.7	99	17	146
VY0625SBSD01	VY0625SBSD01	1,2-Dichloroethane-d4	50	51.0	102	63	155
		Dibromofluoromethane	50	51.1	102	70	134
		Toluene-d8	50	51.5	103	74	123
		4-Bromofluorobenzene	50	49.5	99	17	146
VY0626SBL01	VY0626SBL01	1,2-Dichloroethane-d4	50	49.9	100	63	155
		Dibromofluoromethane	50	50.3	101	70	134
		Toluene-d8	50	49.8	100	74	123
		4-Bromofluorobenzene	50	53.7	107	17	146
VY0626SBS01	VY0626SBS01	1,2-Dichloroethane-d4	50	51.8	104	63	155
		Dibromofluoromethane	50	50.4	101	70	134
		Toluene-d8	50	51.0	102	74	123
		4-Bromofluorobenzene	50	50.0	100	17	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022813.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0625SBS01	Dichlorodifluoromethane	20	21.9	ug/Kg	110			64	136	
	Chloromethane	20	19.1	ug/Kg	96			52	151	
	Vinyl chloride	20	20.3	ug/Kg	102			56	148	
	Bromomethane	20	22.7	ug/Kg	114			58	141	
	Chloroethane	20	20.3	ug/Kg	102			69	130	
	Trichlorofluoromethane	20	20.9	ug/Kg	104			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.7	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	20.3	ug/Kg	102			79	121	
	Acetone	100	130	ug/Kg	130			40	171	
	Carbon disulfide	20	20.1	ug/Kg	101			59	130	
	Methyl tert-butyl Ether	20	20.4	ug/Kg	102			77	129	
	Methyl Acetate	20	18.3	ug/Kg	92			69	149	
	Methylene Chloride	20	22.2	ug/Kg	111			72	131	
	trans-1,2-Dichloroethene	20	19.9	ug/Kg	100			80	123	
	1,1-Dichloroethane	20	20.0	ug/Kg	100			82	123	
	Cyclohexane	20	20.4	ug/Kg	102			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	20.4	ug/Kg	102			76	129	
	cis-1,2-Dichloroethene	20	20.1	ug/Kg	101			82	123	
	Bromochloromethane	20	19.5	ug/Kg	98			80	127	
	Chloroform	20	20.0	ug/Kg	100			82	125	
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101			80	126	
	Methylcyclohexane	20	20.6	ug/Kg	103			77	123	
	Benzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	20.5	ug/Kg	103			81	126	
	Trichloroethene	20	20.9	ug/Kg	104			83	122	
	1,2-Dichloropropane	20	19.9	ug/Kg	100			83	122	
	Bromodichloromethane	20	20.4	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			70	135	
	Toluene	20	20.2	ug/Kg	101			83	122	
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100			78	124	
	cis-1,3-Dichloropropene	20	20.4	ug/Kg	102			81	122	
	1,1,2-Trichloroethane	20	20.5	ug/Kg	103			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	20.2	ug/Kg	101			79	125	
	1,2-Dibromoethane	20	19.9	ug/Kg	100			80	125	
	Tetrachloroethene	20	21.8	ug/Kg	109			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	39.8	ug/Kg	100			83	124	
	o-Xylene	20	19.7	ug/Kg	99			83	123	
	Styrene	20	19.6	ug/Kg	98			82	124	
	Bromoform	20	19.5	ug/Kg	98			75	127	
	Isopropylbenzene	20	20.3	ug/Kg	102			82	124	
	1,1,2,2-Tetrachloroethane	20	19.0	ug/Kg	95			77	127	
	1,3-Dichlorobenzene	20	19.7	ug/Kg	99			83	122	
	1,4-Dichlorobenzene	20	19.9	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022813.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0625SBS01	1,2-Dibromo-3-Chloropropane	20	19.3	ug/Kg	97			66	134	
	1,2,4-Trichlorobenzene	20	20.3	ug/Kg	102			78	127	
	1,2,3-Trichlorobenzene	20	19.5	ug/Kg	98			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022814.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0625SBSD01	Dichlorodifluoromethane	20	21.7	ug/Kg	109	1		64	136	20
	Chloromethane	20	20.0	ug/Kg	100	4		52	151	20
	Vinyl chloride	20	21.0	ug/Kg	105	3		56	148	20
	Bromomethane	20	23.1	ug/Kg	116	2		58	141	20
	Chloroethane	20	20.8	ug/Kg	104	2		69	130	20
	Trichlorofluoromethane	20	20.9	ug/Kg	104	0		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.7	ug/Kg	104	0		81	123	20
	1,1-Dichloroethene	20	20.7	ug/Kg	104	2		79	121	20
	Acetone	100	130	ug/Kg	130	0		40	171	20
	Carbon disulfide	20	20.4	ug/Kg	102	1		59	130	20
	Methyl tert-butyl Ether	20	20.9	ug/Kg	104	2		77	129	20
	Methyl Acetate	20	18.6	ug/Kg	93	1		69	149	20
	Methylene Chloride	20	21.1	ug/Kg	106	5		72	131	20
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102	2		80	123	20
	1,1-Dichloroethane	20	20.5	ug/Kg	103	3		82	123	20
	Cyclohexane	20	20.4	ug/Kg	102	0		76	122	20
	2-Butanone	100	110	ug/Kg	110	0		69	131	20
	Carbon Tetrachloride	20	20.6	ug/Kg	103	1		76	129	20
	cis-1,2-Dichloroethene	20	20.4	ug/Kg	102	1		82	123	20
	Bromochloromethane	20	19.7	ug/Kg	99	1		80	127	20
	Chloroform	20	20.2	ug/Kg	101	1		82	125	20
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103	2		80	126	20
	Methylcyclohexane	20	20.6	ug/Kg	103	0		77	123	20
	Benzene	20	20.4	ug/Kg	102	1		84	121	20
	1,2-Dichloroethane	20	20.5	ug/Kg	103	0		81	126	20
	Trichloroethene	20	20.4	ug/Kg	102	2		83	122	20
	1,2-Dichloropropane	20	20.3	ug/Kg	102	2		83	122	20
	Bromodichloromethane	20	20.3	ug/Kg	102	0		82	123	20
	4-Methyl-2-Pentanone	100	100	ug/Kg	100	0		70	135	20
	Toluene	20	20.0	ug/Kg	100	1		83	122	20
	t-1,3-Dichloropropene	20	20.1	ug/Kg	101	1		78	124	20
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	1		81	122	20
	1,1,2-Trichloroethane	20	20.3	ug/Kg	102	1		82	125	20
	2-Hexanone	100	110	ug/Kg	110	0		66	138	20
	Dibromochloromethane	20	20.3	ug/Kg	102	1		79	125	20
	1,2-Dibromoethane	20	20.3	ug/Kg	102	2		80	125	20
	Tetrachloroethene	20	18.8	ug/Kg	94	15		83	125	20
	Chlorobenzene	20	20.6	ug/Kg	103	3		84	122	20
	Ethyl Benzene	20	20.6	ug/Kg	103	2		82	124	20
	m/p-Xylenes	40	41.0	ug/Kg	103	3		83	124	20
	o-Xylene	20	20.2	ug/Kg	101	2		83	123	20
	Styrene	20	20.4	ug/Kg	102	4		82	124	20
	Bromoform	20	20.1	ug/Kg	101	3		75	127	20
	Isopropylbenzene	20	21.3	ug/Kg	106	4		82	124	20
	1,1,2,2-Tetrachloroethane	20	22.6	ug/Kg	113	17		77	127	20
	1,3-Dichlorobenzene	20	20.9	ug/Kg	104	5		83	122	20
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	3		84	121	20
	1,2-Dichlorobenzene	20	20.5	ug/Kg	103	4		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022814.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0625SBSD01	1,2-Dibromo-3-Chloropropane	20	20.0	ug/Kg	100	3		66	134	20
	1,2,4-Trichlorobenzene	20	20.2	ug/Kg	101	1		78	127	20
	1,2,3-Trichlorobenzene	20	19.9	ug/Kg	100	2		70	137	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022840.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0626SBS01	Dichlorodifluoromethane	20	20.4	ug/Kg	102			64	136	
	Chloromethane	20	22.2	ug/Kg	111			52	151	
	Vinyl chloride	20	20.0	ug/Kg	100			56	148	
	Bromomethane	20	23.1	ug/Kg	116			58	141	
	Chloroethane	20	19.3	ug/Kg	97			69	130	
	Trichlorofluoromethane	20	19.0	ug/Kg	95			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	20.5	ug/Kg	103			79	121	
	Acetone	100	150	ug/Kg	150			40	171	
	Carbon disulfide	20	20.4	ug/Kg	102			59	130	
	Methyl tert-butyl Ether	20	21.0	ug/Kg	105			77	129	
	Methyl Acetate	20	18.1	ug/Kg	91			69	149	
	Methylene Chloride	20	23.0	ug/Kg	115			72	131	
	trans-1,2-Dichloroethene	20	20.2	ug/Kg	101			80	123	
	1,1-Dichloroethane	20	20.6	ug/Kg	103			82	123	
	Cyclohexane	20	20.3	ug/Kg	102			76	122	
	2-Butanone	100	130	ug/Kg	130			69	131	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			76	129	
	cis-1,2-Dichloroethene	20	20.3	ug/Kg	102			82	123	
	Bromochloromethane	20	20.7	ug/Kg	104			80	127	
	Chloroform	20	20.3	ug/Kg	102			82	125	
	1,1,1-Trichloroethane	20	20.3	ug/Kg	102			80	126	
	Methylcyclohexane	20	20.1	ug/Kg	101			77	123	
	Benzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	20.1	ug/Kg	101			81	126	
	Trichloroethene	20	20.8	ug/Kg	104			83	122	
	1,2-Dichloropropane	20	20.1	ug/Kg	101			83	122	
	Bromodichloromethane	20	20.2	ug/Kg	101			82	123	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			70	135	
	Toluene	20	20.0	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100			78	124	
	cis-1,3-Dichloropropene	20	20.3	ug/Kg	102			81	122	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			82	125	
	2-Hexanone	100	120	ug/Kg	120			66	138	
	Dibromochloromethane	20	20.0	ug/Kg	100			79	125	
	1,2-Dibromoethane	20	20.0	ug/Kg	100			80	125	
	Tetrachloroethene	20	20.8	ug/Kg	104			83	125	
	Chlorobenzene	20	19.9	ug/Kg	100			84	122	
	Ethyl Benzene	20	19.8	ug/Kg	99			82	124	
	m/p-Xylenes	40	39.9	ug/Kg	100			83	124	
	o-Xylene	20	19.8	ug/Kg	99			83	123	
	Styrene	20	19.7	ug/Kg	99			82	124	
	Bromoform	20	19.4	ug/Kg	97			75	127	
	Isopropylbenzene	20	20.5	ug/Kg	103			82	124	
	1,1,2,2-Tetrachloroethane	20	20.7	ug/Kg	104			77	127	
	1,3-Dichlorobenzene	20	20.3	ug/Kg	102			83	122	
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2413

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022840.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0626SBS01	1,2-Dibromo-3-Chloropropane	20	20.2	ug/Kg	101			66	134	
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99			78	127	
	1,2,3-Trichlorobenzene	20	19.5	ug/Kg	98			70	137	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0625SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413

Lab File ID: VY022812.D Lab Sample ID: VY0625SBL01

Date Analyzed: 06/25/2025 Time Analyzed: 09:46

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
VY0625SBS01	VY0625SBS01	VY022813.D	06/25/2025
VY0625SBSD01	VY0625SBSD01	VY022814.D	06/25/2025
TP-34	Q2413-02	VY022820.D	06/25/2025
TP-77	Q2413-03	VY022821.D	06/25/2025
TP-74	Q2413-04	VY022822.D	06/25/2025
TP-73	Q2413-05	VY022823.D	06/25/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0626SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413

Lab File ID: VY022839.D Lab Sample ID: VY0626SBL01

Date Analyzed: 06/26/2025 Time Analyzed: 10:39

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
VY0626SBS01	VY0626SBS01	VY022840.D	06/26/2025
TP-35	Q2413-01	VY022844.D	06/26/2025
TP-72	Q2413-06	VY022845.D	06/26/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413

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

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413

Lab File ID: VY022810.D BFB Injection Date: 06/25/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:41

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23
75	30.0 - 60.0% of mass 95	56.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	6 (7.5) 1
176	95.0 - 101.0% of mass 174	79.5 (98.8) 1
177	5.0 - 9.0% of mass 176	5.2 (6.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022811.D	06/25/2025	09:13
VY0625SBL01	VY0625SBL01	VY022812.D	06/25/2025	09:46
VY0625SBS01	VY0625SBS01	VY022813.D	06/25/2025	10:18
VY0625SBSD01	VY0625SBSD01	VY022814.D	06/25/2025	10:40
TP-34	Q2413-02	VY022820.D	06/25/2025	13:22
TP-77	Q2413-03	VY022821.D	06/25/2025	13:45
TP-74	Q2413-04	VY022822.D	06/25/2025	14:08
TP-73	Q2413-05	VY022823.D	06/25/2025	14:32

Raw Data: **VY022837.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413

Lab File ID: VY022837.D BFB Injection Date: 06/26/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:22

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.5
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	86.1
175	5.0 - 9.0% of mass 174	6.1 (7.1) 1
176	95.0 - 101.0% of mass 174	82.8 (96.2) 1
177	5.0 - 9.0% of mass 176	5.5 (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	VY022838.D	06/26/2025	10:07
VY0626SBL01	VY0626SBL01	VY022839.D	06/26/2025	10:39
VY0626SBS01	VY0626SBS01	VY022840.D	06/26/2025	11:09
TP-35	Q2413-01	VY022844.D	06/26/2025	12:56
TP-72	Q2413-06	VY022845.D	06/26/2025	13:20

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413

Lab File ID: VY022811.D Date Analyzed: 06/25/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:13

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	448549	7.71	727879	8.61	634524	11.41
UPPER LIMIT	897098	8.207	1455760	9.11	1269050	11.914
LOWER LIMIT	224275	7.207	363940	8.11	317262	10.914
EPA SAMPLE NO.						
TP-34	392242	7.71	690772	8.61	622911	11.41
TP-77	381808	7.71	681622	8.61	597468	11.41
TP-74	385627	7.71	688505	8.61	619901	11.41
TP-73	352660	7.70	632034	8.61	567782	11.41
VY0625SBL01	322245	7.71	582244	8.62	555259	11.41
VY0625SBS01	433589	7.71	722109	8.61	625216	11.41
VY0625SBSD01	424898	7.71	717544	8.61	607296	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.: Q2413 SAS No.: Q2413 SDG NO.: Q2413

Lab File ID: VY022811.D Date Analyzed: 06/25/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:13

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

	IS4 AREA #	RT #				
12 HOUR STD	316858	13.34				
UPPER LIMIT	633716	13.84				
LOWER LIMIT	158429	12.84				
EPA SAMPLE NO.						
TP-34	266014	13.34				
TP-77	245461	13.34				
TP-74	261665	13.34				
TP-73	243559	13.34				
VY0625SBL01	248657	13.35				
VY0625SBS01	303331	13.35				
VY0625SBSD01	290027	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2413 SAS No.: Q2413 SDG NO.: Q2413

Lab File ID: VY022838.D Date Analyzed: 06/26/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:07

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	469939	7.71	769006	8.62	661912	11.41
UPPER LIMIT	939878	8.207	1538010	9.116	1323820	11.914
LOWER LIMIT	234970	7.207	384503	8.116	330956	10.914
EPA SAMPLE NO.						
TP-35	306589	7.71	584214	8.62	574106	11.41
TP-72	313811	7.71	566645	8.62	546225	11.41
VY0626SBL01	328943	7.71	604959	8.62	571725	11.41
VY0626SBS01	434636	7.71	740035	8.62	637859	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.: Q2413 SAS No.: Q2413 SDG NO.: Q2413

Lab File ID: VY022838.D Date Analyzed: 06/26/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:07

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

	IS4 AREA #	RT #				
12 HOUR STD	328091	13.347				
UPPER LIMIT	656182	13.847				
LOWER LIMIT	164046	12.847				
EPA SAMPLE NO.						
TP-35	247141	13.35				
TP-72	218308	13.35				
VY0626SBL01	249132	13.35				
VY0626SBS01	302470	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Raw Data: **VY022844.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.8
Sample Wt/Vol:	6.55 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
VY022844.D	1		06/26/25 12:56	VY062625

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	4.10	U	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	3.00	U	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	0.83	U	0.83	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.64	U	0.64	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	2.50	J	0.67	4.30	ug/Kg

Raw Data: **VY022844.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.8
Sample Wt/Vol:	6.55 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
VY022844.D	1		06/26/25 12:56	VY062625

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	0.70	U	0.70	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	47.4		63 - 155	95%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.3		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.9		17 - 146	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	307000	7.713			
540-36-3	1,4-Difluorobenzene	584000	8.616			
3114-55-4	Chlorobenzene-d5	574000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	247000	13.346			

Raw Data: **VY022844.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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.8
Sample Wt/Vol:	6.55 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
VY022844.D	1		06/26/25 12:56	VY062625

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\VY062625\
Data File : VY022844.D
Acq On : 26 Jun 2025 12:56
Operator : SY/MD
Sample : Q2413-01
Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-35

Quant Time: Jun 27 01:27:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

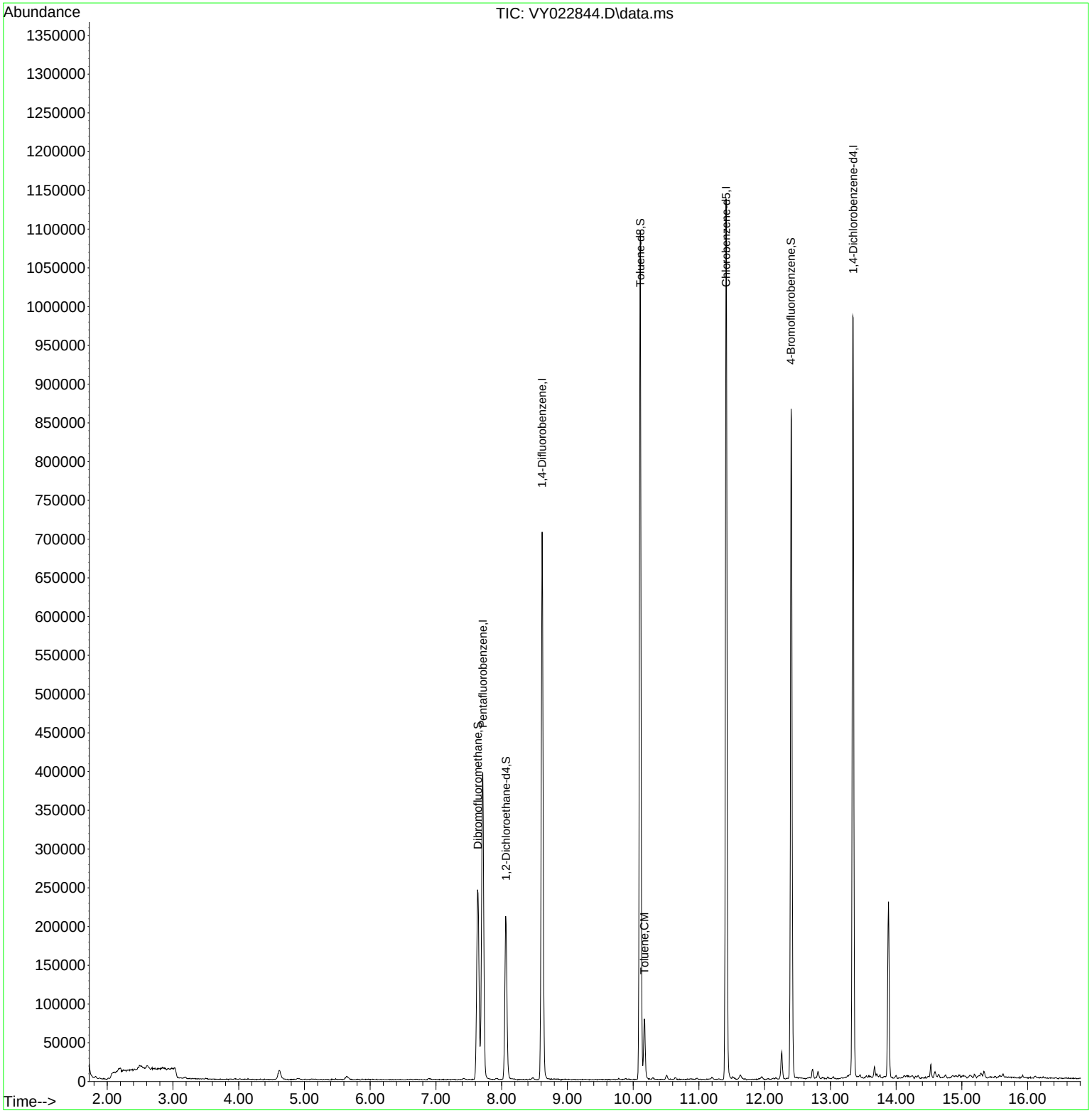
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	306589	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	584214	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	574106	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	247141	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	162099	47.372	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.740%			
35) Dibromofluoromethane	7.640	113	179265	50.456	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.920%			
50) Toluene-d8	10.109	98	708810	50.276	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.560%			
62) 4-Bromofluorobenzene	12.401	95	248839	54.905	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 109.800%			
Target Compounds						Qvalue
52) Toluene	10.170	92	30801	2.949	ug/l	100

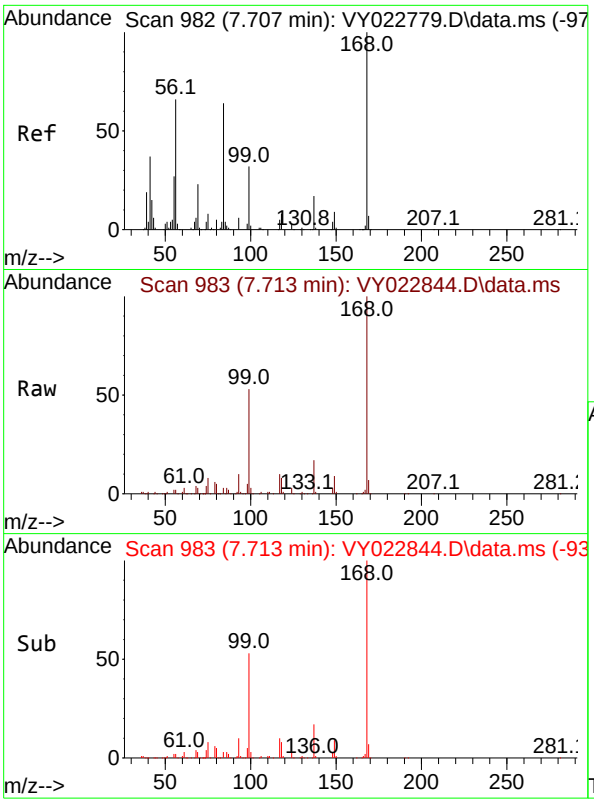
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022844.D
Acq On : 26 Jun 2025 12:56
Operator : SY/MD
Sample : Q2413-01
Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-35

Quant Time: Jun 27 01:27:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration



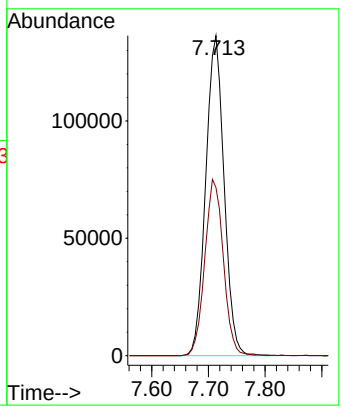


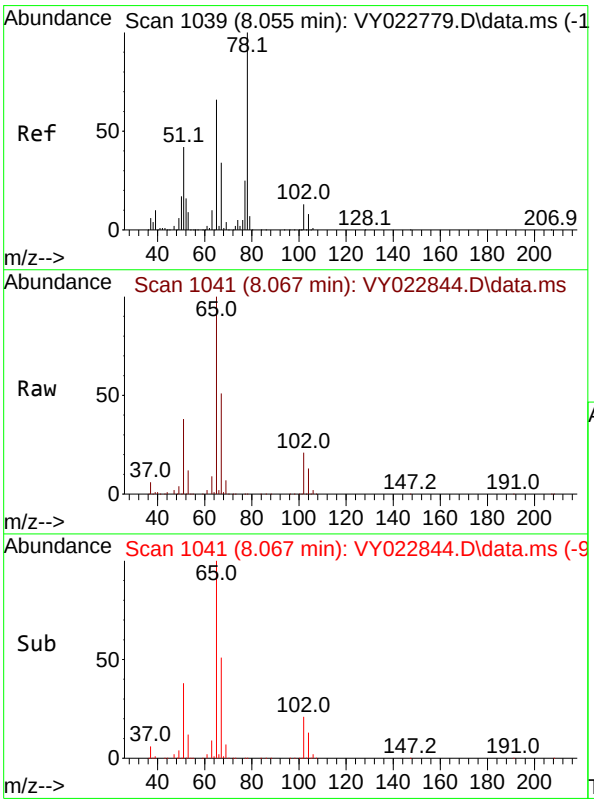
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022844.D
Acq: 26 Jun 2025 12:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-35

Tgt Ion:168 Resp: 306589

Ion	Ratio	Lower	Upper
168	100		
99	52.6	44.3	66.5

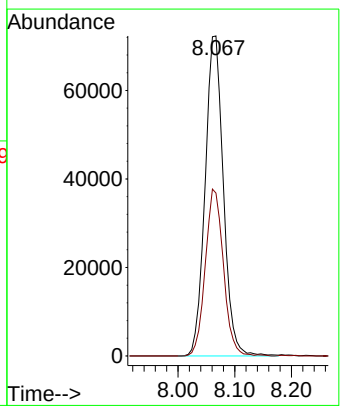


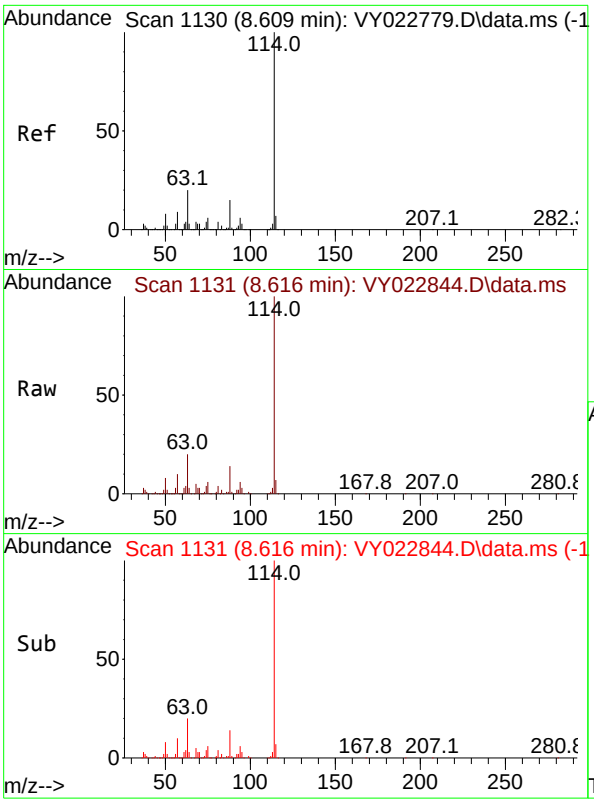


#33
1,2-Dichloroethane-d4
Concen: 47.372 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022844.D
Acq: 26 Jun 2025 12:56

Tgt Ion: 65 Resp: 162099

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	103.4



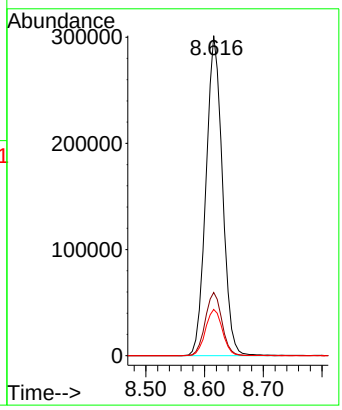


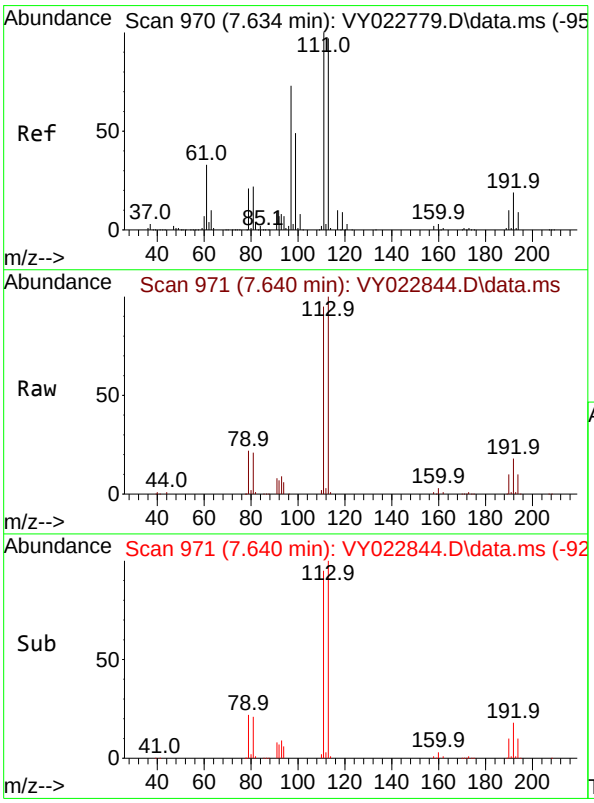
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022844.D
Acq: 26 Jun 2025 12:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-35

Tgt Ion:114 Resp: 584214

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.8
88	14.5	0.0	27.8

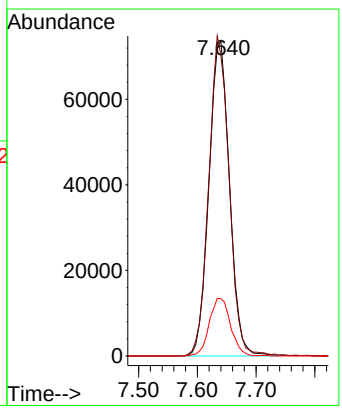


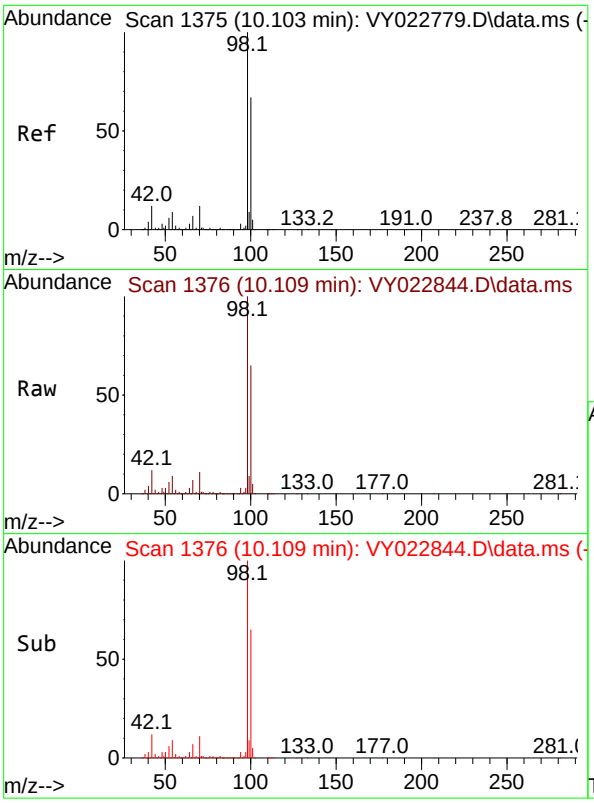


#35
Dibromofluoromethane
Concen: 50.456 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY022844.D
Acq: 26 Jun 2025 12:56

Tgt Ion:113 Resp: 179265

Ion	Ratio	Lower	Upper
113	100		
111	100.4	81.1	121.7
192	18.8	14.2	21.2



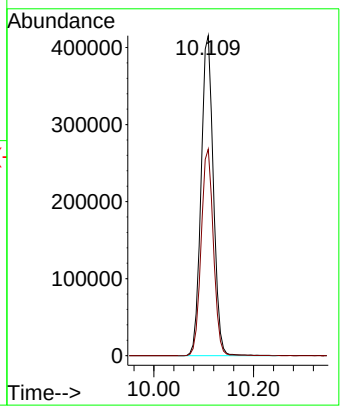


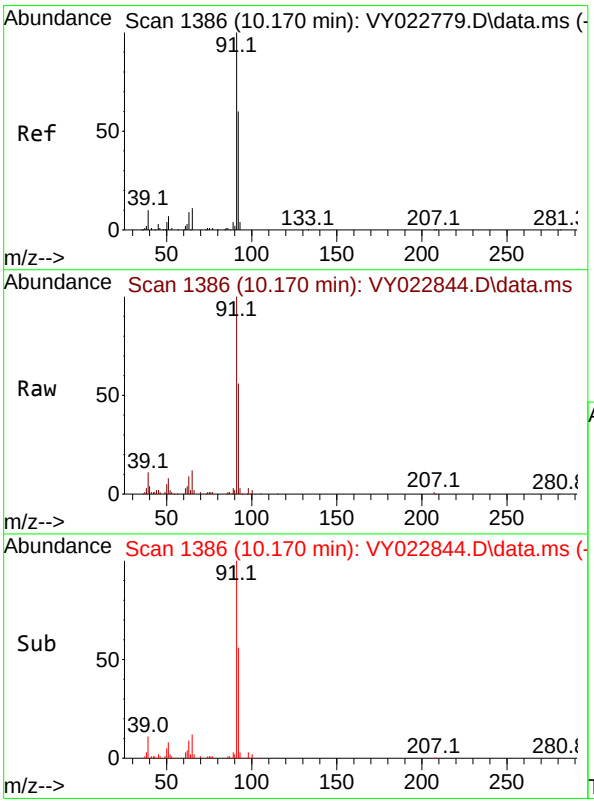
#50
Toluene-d8
Concen: 50.276 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022844.D
Acq: 26 Jun 2025 12:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-35

Tgt Ion: 98 Resp: 708810

Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.4	77.0

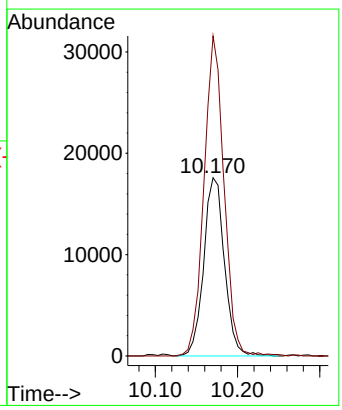


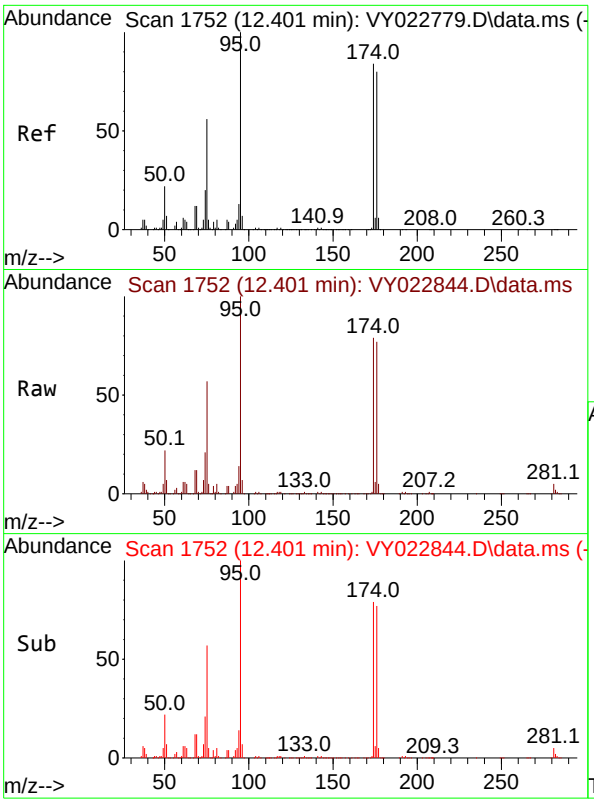


#52
Toluene
Concen: 2.949 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022844.D
Acq: 26 Jun 2025 12:56

Tgt Ion: 92 Resp: 30801

Ion	Ratio	Lower	Upper
92	100		
91	173.5	139.0	208.4



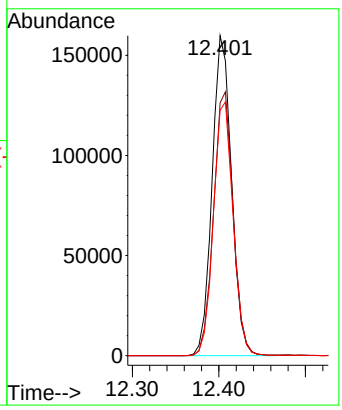


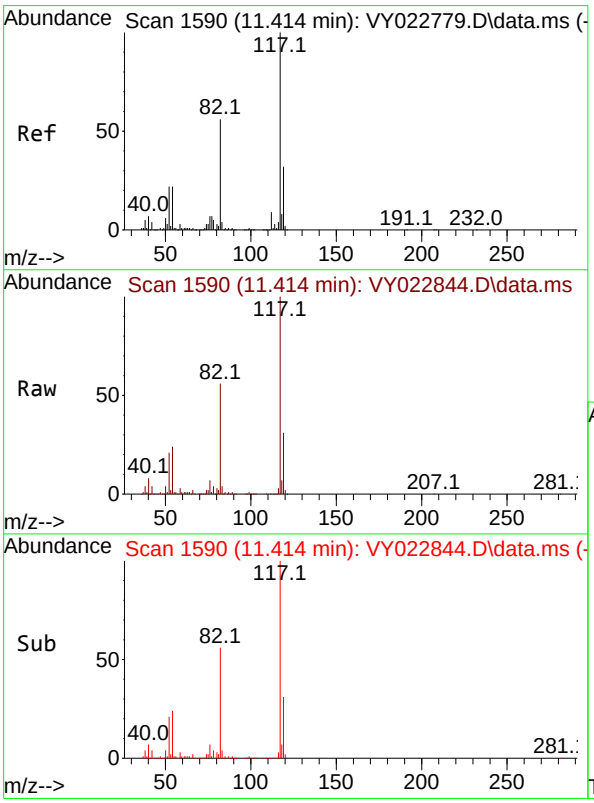
#62
4-Bromofluorobenzene
Concen: 54.905 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022844.D
Acq: 26 Jun 2025 12:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-35

Tgt Ion: 95 Resp: 248839

Ion	Ratio	Lower	Upper
95	100		
174	83.7	0.0	170.0
176	80.3	0.0	166.2

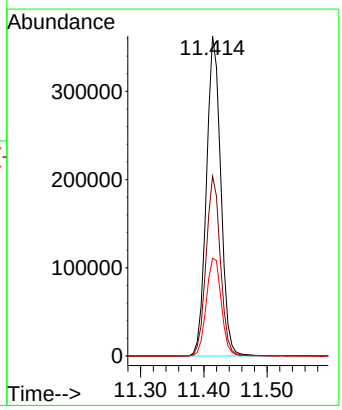


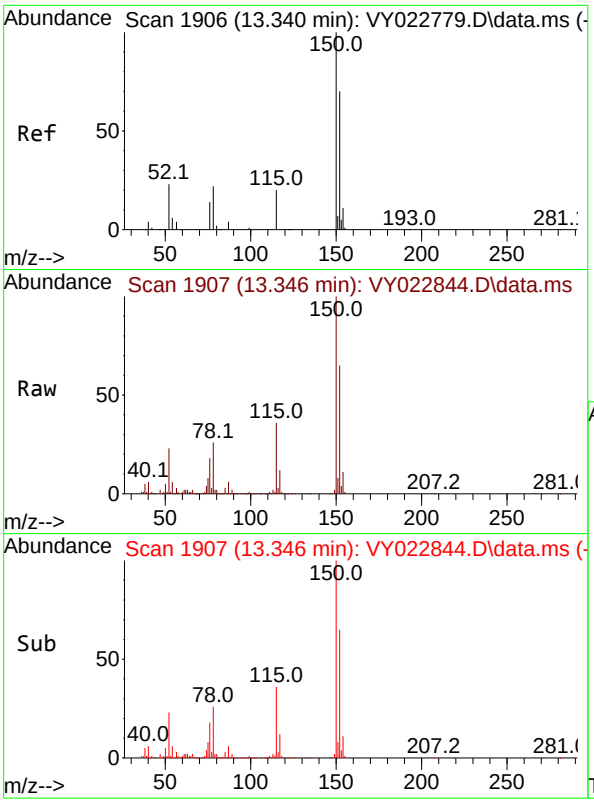


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022844.D
Acq: 26 Jun 2025 12:56

Tgt Ion:117 Resp: 574106

Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.6	66.8
119	30.6	25.4	38.0



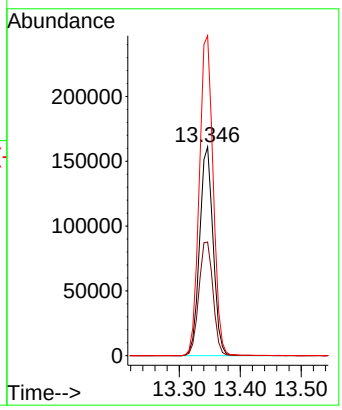


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022844.D
Acq: 26 Jun 2025 12:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-35

Tgt Ion:152 Resp: 247141

Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.9	86.7
150	157.3	0.0	349.6



Sample Results: **VY022844.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022844.D
Acq On : 26 Jun 2025 12:56
Operator : SY/MD
Sample : Q2413-01
Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-35

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: VY022844.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	51	61	62	rBV7	7833	19087	1.01%	0.177%
2	4.616	465	475	483	rBV2	11776	36800	1.95%	0.342%
3	7.634	961	970	976	rBV	245044	594686	31.48%	5.527%
4	7.713	976	983	997	rVB	395508	921557	48.79%	8.565%
5	8.061	1030	1040	1052	rBV	210929	464880	24.61%	4.321%
6	8.616	1122	1131	1145	rBV	706978	1377264	72.92%	12.800%
7	10.109	1368	1376	1382	rBV	1095381	1888835	100.00%	17.555%
8	10.170	1382	1386	1396	rVB	77841	139681	7.40%	1.298%
9	11.414	1581	1590	1604	rBV	1137228	1818135	96.26%	16.898%
10	12.261	1722	1729	1734	rBV	35166	56461	2.99%	0.525%
11	12.401	1745	1752	1761	rBV2	864051	1453462	76.95%	13.509%
12	12.731	1801	1806	1811	rVB6	11698	18941	1.00%	0.176%
13	13.340	1900	1906	1916	rVB	981786	1567811	83.00%	14.571%
14	13.669	1955	1960	1964	rBV5	13758	20522	1.09%	0.191%
15	13.883	1988	1995	2002	rVB	226689	358576	18.98%	3.333%
16	14.529	2097	2101	2107	rVB	17388	22798	1.21%	0.212%

Sum of corrected areas: 10759496

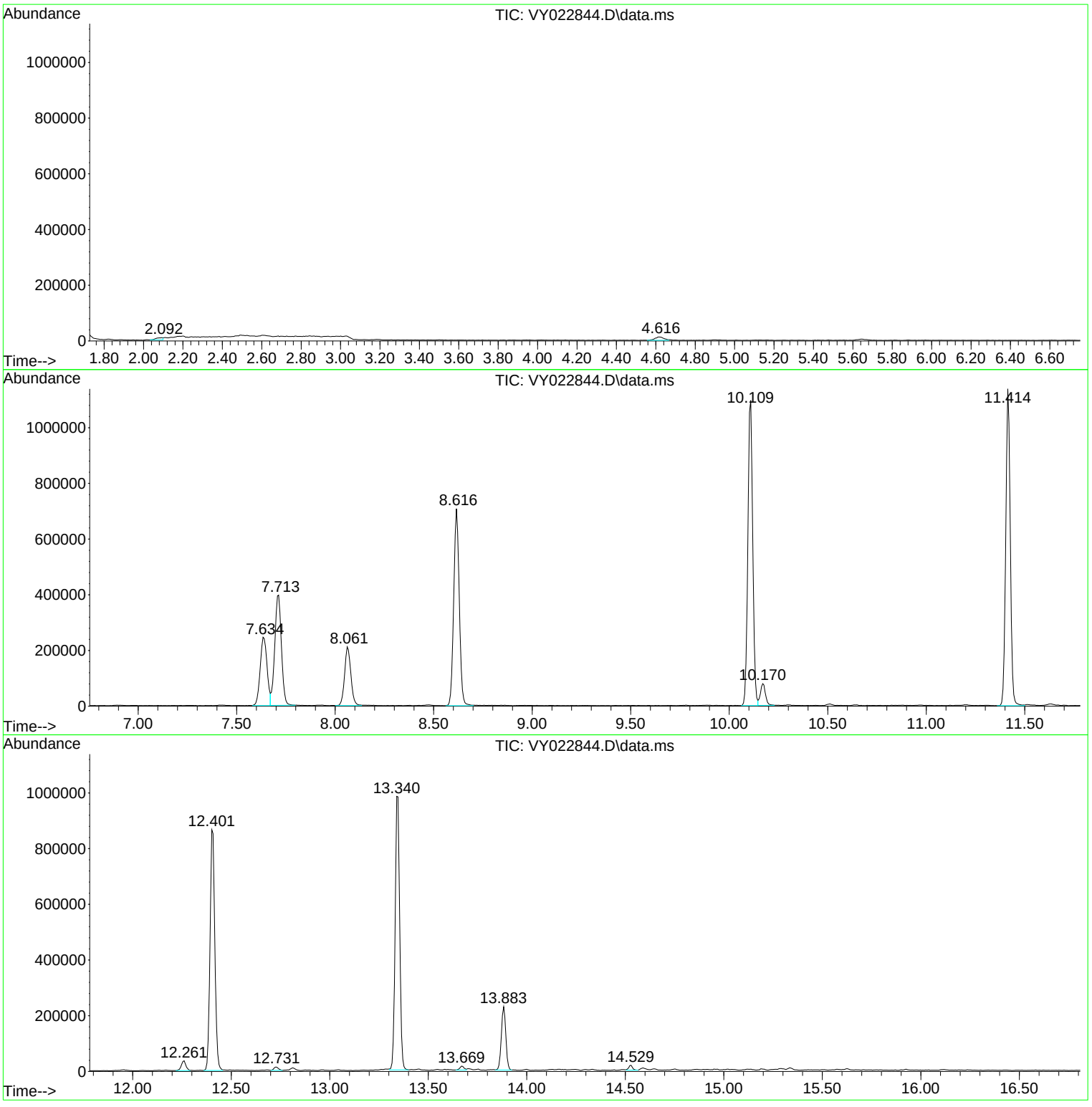
Sample Results: **VY022844.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022844.D
Acq On : 26 Jun 2025 12:56
Operator : SY/MD
Sample : Q2413-01
Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-35

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: **VY022844.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022844.D
Acq On : 26 Jun 2025 12:56
Operator : SY/MD
Sample : Q2413-01
Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-35

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\VY062625\
Data File : VY022844.D
Acq On : 26 Jun 2025 12:56
Operator : SY/MD
Sample : Q2413-01
Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-35

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: **VY022820.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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	6.66 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
VY022820.D	1		06/25/25 13:22	VY062525

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	0.64	U	0.64	4.10	ug/Kg
74-83-9	Bromomethane	0.87	U	0.87	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	0.86	U	0.86	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	20.4	ug/Kg
75-15-0	Carbon Disulfide	0.86	U	0.86	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	6.50	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	0.64	U	0.64	4.10	ug/Kg
78-93-3	2-Butanone	5.30	U	5.30	20.4	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	0.64	U	0.64	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.64	U	0.64	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	20.4	ug/Kg
108-88-3	Toluene	0.64	U	0.64	4.10	ug/Kg

Raw Data: **VY022820.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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	6.66 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
VY022820.D	1		06/25/25 13:22	VY062525

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	20.4	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	38.7		63 - 155	77%	SPK: 50
1868-53-7	Dibromofluoromethane	46.1		70 - 134	92%	SPK: 50
2037-26-5	Toluene-d8	49.1		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		17 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	392000	7.707			
540-36-3	1,4-Difluorobenzene	691000	8.61			
3114-55-4	Chlorobenzene-d5	623000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	266000	13.34			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022820.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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	6.66 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
VY022820.D	1		06/25/25 13:22	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000827-54-3	Naphthalene, 2-ethenyl-	6.80	J		14.5	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\VY062525\
Data File : VY022820.D
Acq On : 25 Jun 2025 13:22
Operator : SY/MD
Sample : Q2413-02
Misc : 6.66g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-34

Quant Time: Jun 26 01:25:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

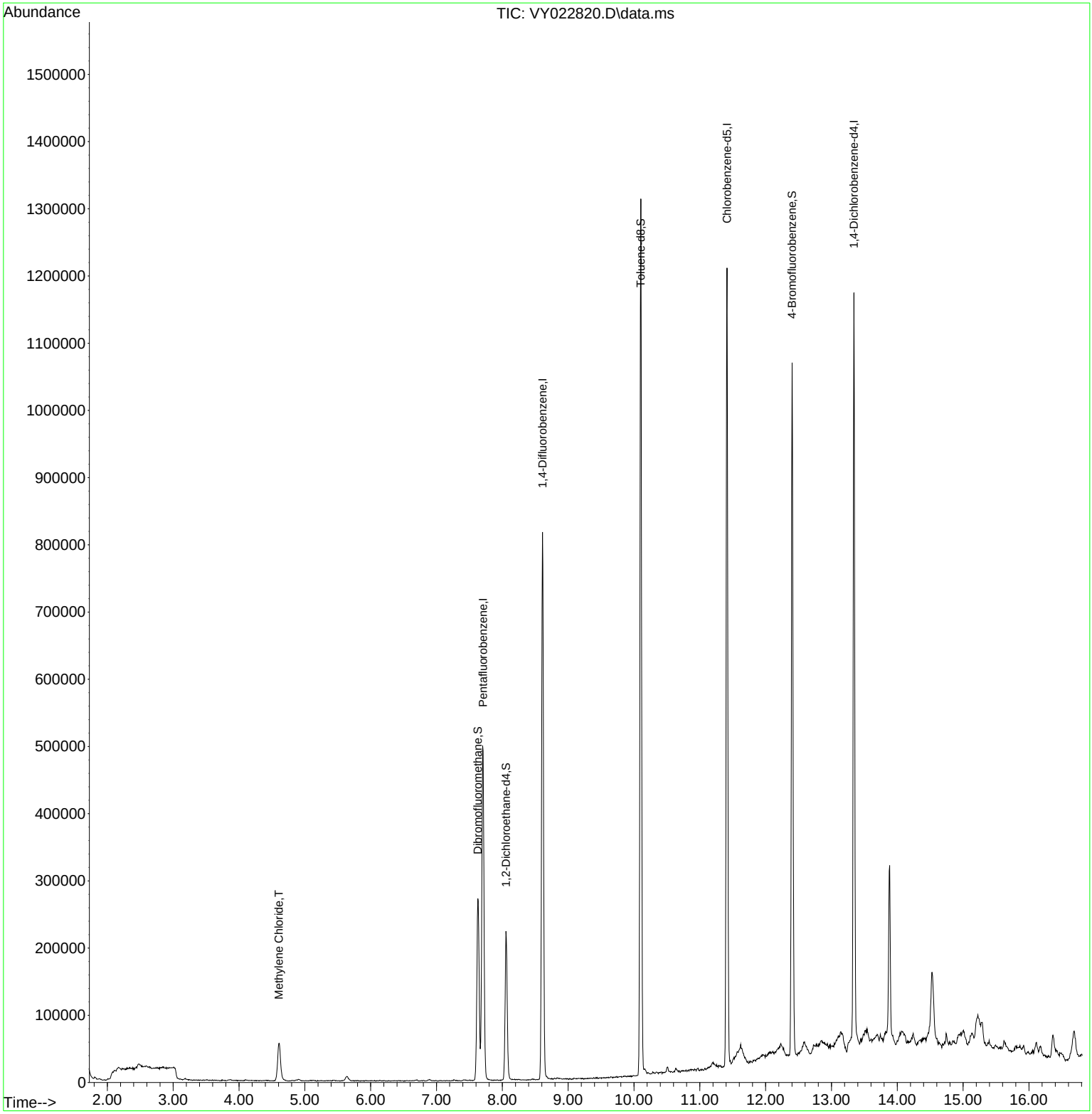
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	392242	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	690772	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	622911	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	266014	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	169438	38.704	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 77.400%			
35) Dibromofluoromethane	7.628	113	193854	46.145	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 92.300%			
50) Toluene-d8	10.103	98	817926	49.066	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.140%			
62) 4-Bromofluorobenzene	12.402	95	271200	50.608	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.220%			
Target Compounds						Qvalue
20) Methylene Chloride	4.604	84	41692	7.979	ug/l	94

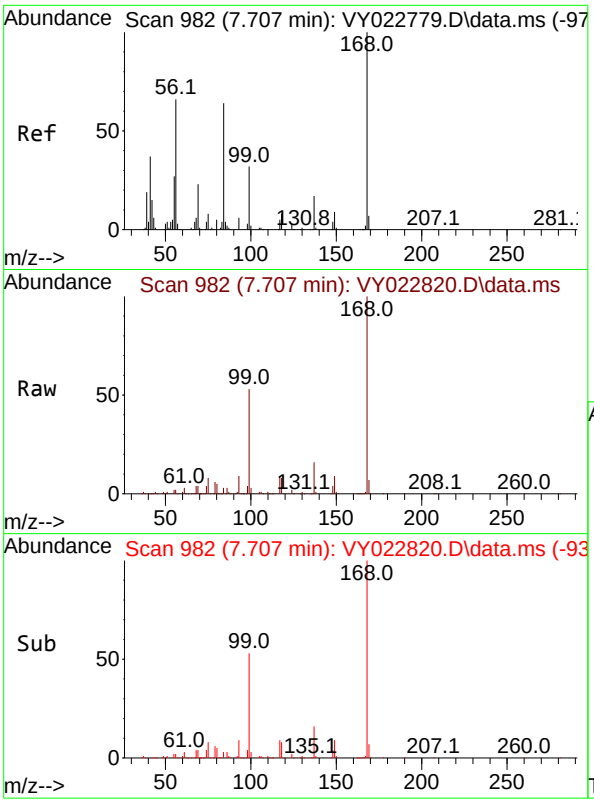
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022820.D
Acq On : 25 Jun 2025 13:22
Operator : SY/MD
Sample : Q2413-02
Misc : 6.66g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-34

Quant Time: Jun 26 01:25:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration



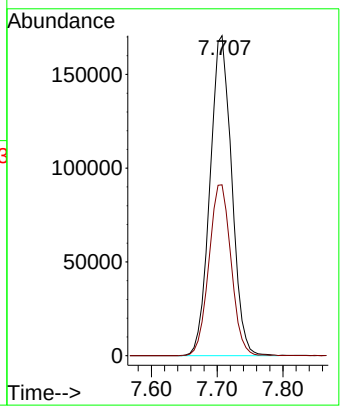


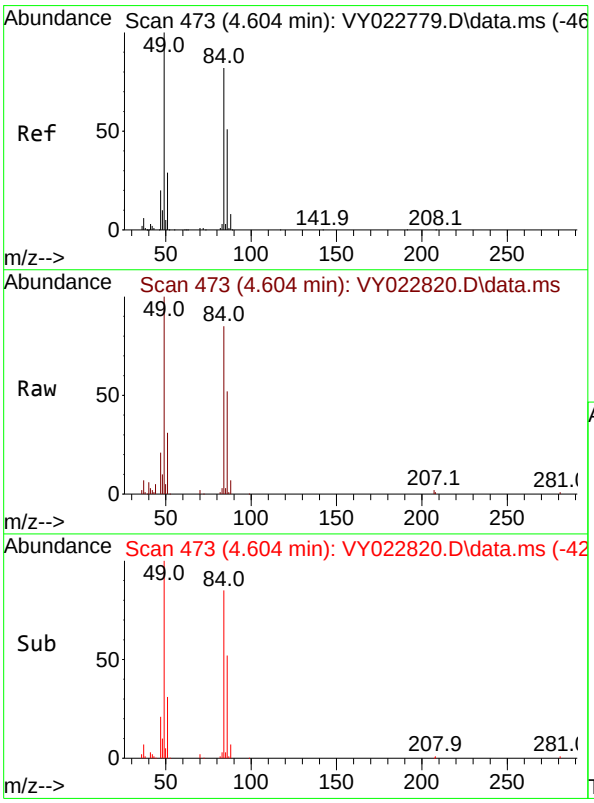
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022820.D
Acq: 25 Jun 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-34

Tgt Ion:168 Resp: 392242

Ion	Ratio	Lower	Upper
168	100		
99	53.4	44.3	66.5

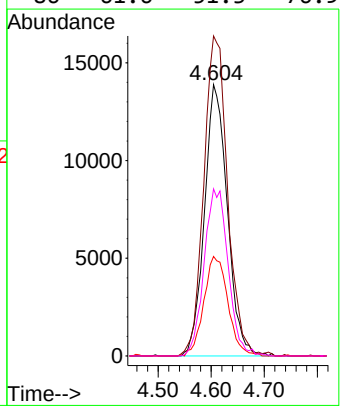


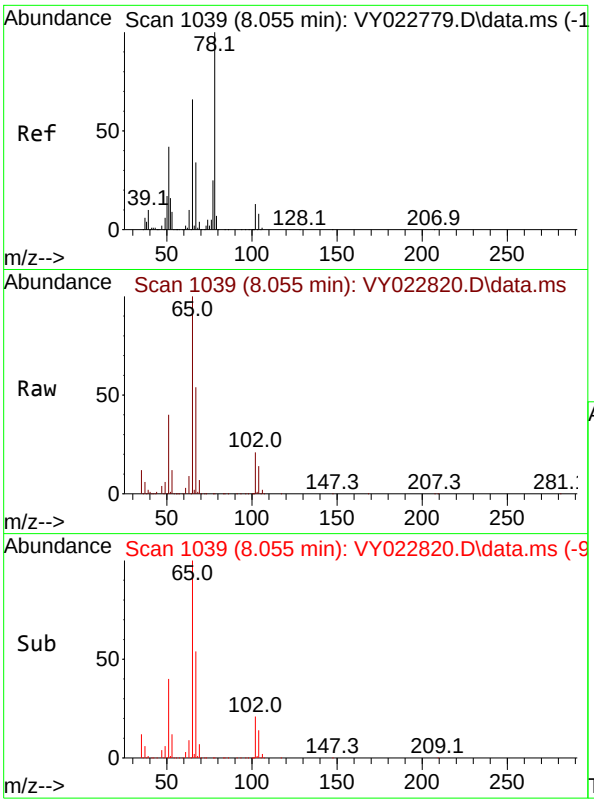


#20
Methylene Chloride
Concen: 7.979 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.018 min
Lab File: VY022820.D
Acq: 25 Jun 2025 13:22

Tgt Ion: 84 Resp: 41692

Ion	Ratio	Lower	Upper
84	100		
49	117.9	101.9	152.9
51	36.7	29.8	44.8
86	61.6	51.3	76.9



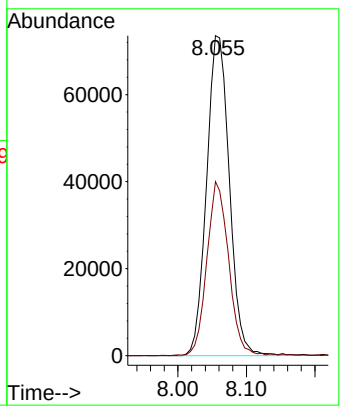


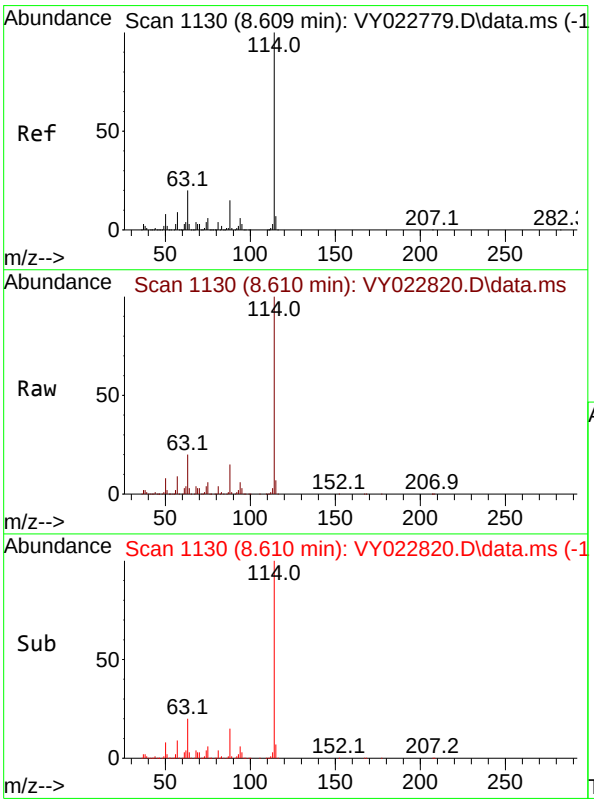
#33
1,2-Dichloroethane-d4
Concen: 38.704 ug/l
RT: 8.055 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY022820.D
Acq: 25 Jun 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-34

Tgt Ion: 65 Resp: 169438

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	103.4

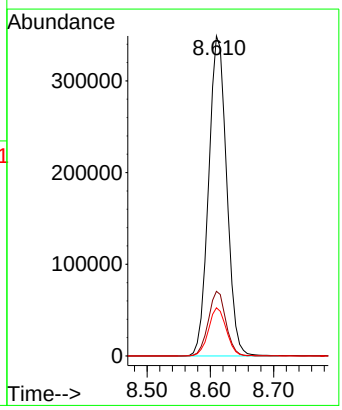


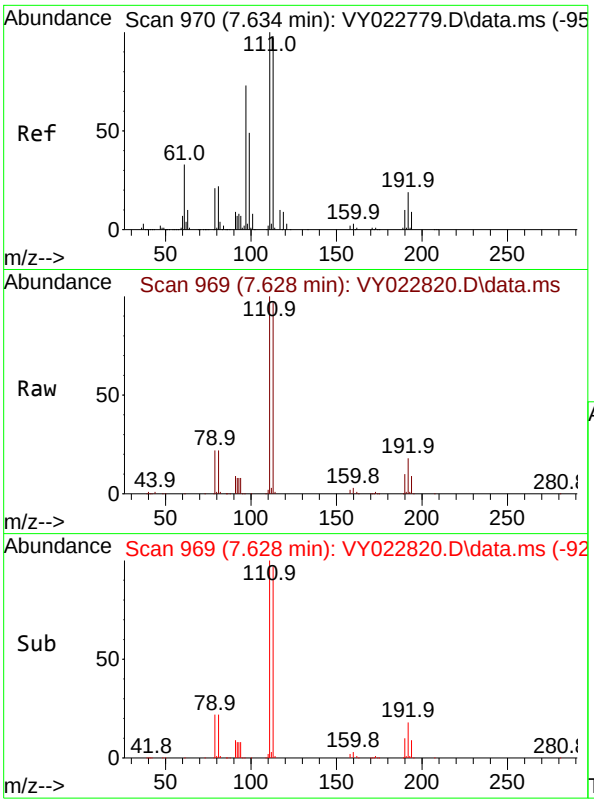


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022820.D
Acq: 25 Jun 2025 13:22

Tgt Ion:114 Resp: 690772

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.8
88	15.0	0.0	27.8



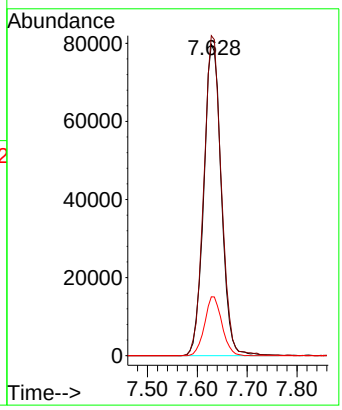


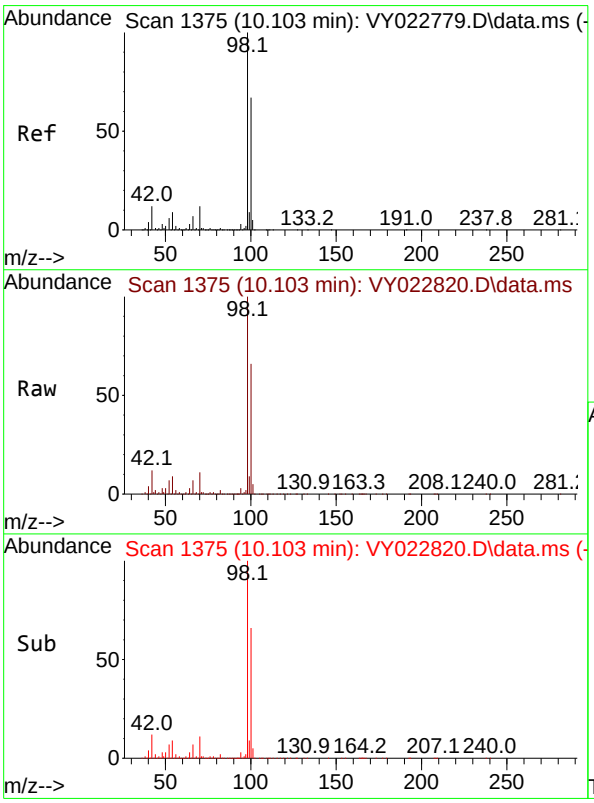
#35
Dibromofluoromethane
Concen: 46.145 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY022820.D
Acq: 25 Jun 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-34

Tgt Ion:113 Resp: 193854

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.1	121.7
192	18.8	14.2	21.2

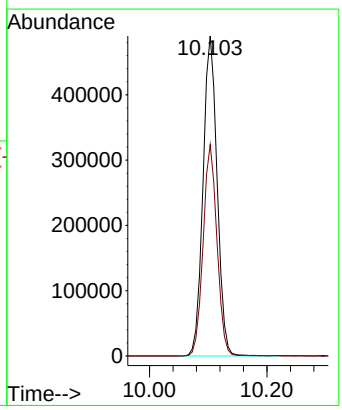


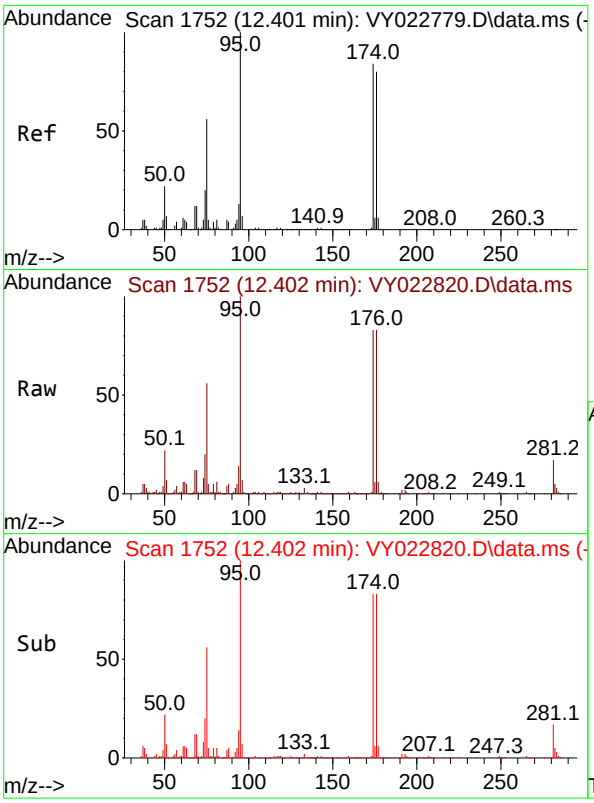


#50
Toluene-d8
Concen: 49.066 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022820.D
Acq: 25 Jun 2025 13:22

Tgt Ion: 98 Resp: 817926

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.4	77.0



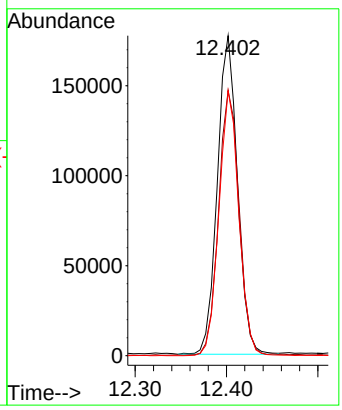


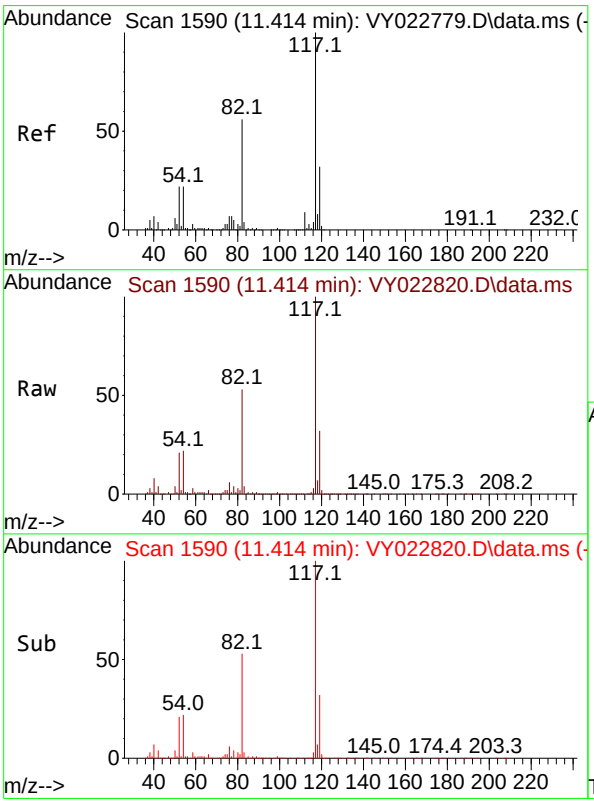
#62
4-Bromofluorobenzene
Concen: 50.608 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022820.D
Acq: 25 Jun 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-34

Tgt Ion: 95 Resp: 271200

Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	170.0
176	82.2	0.0	166.2

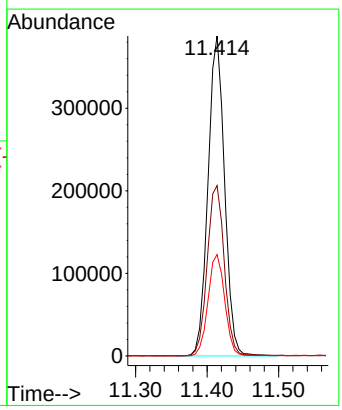


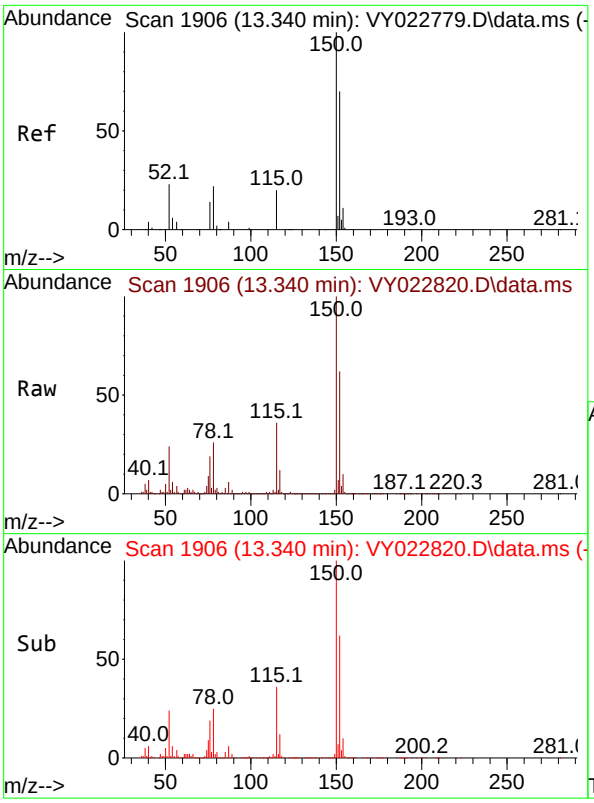


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022820.D
Acq: 25 Jun 2025 13:22

Tgt Ion:117 Resp: 622911

Ion	Ratio	Lower	Upper
117	100		
82	53.2	44.6	66.8
119	31.6	25.4	38.0



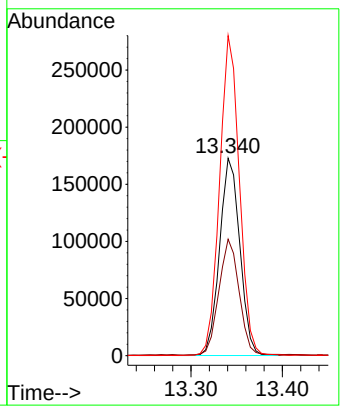


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022820.D
Acq: 25 Jun 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-34

Tgt Ion:152 Resp: 266014

Ion	Ratio	Lower	Upper
152	100		
115	59.3	28.9	86.7
150	158.4	0.0	349.6



Sample Results: **VY022820.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022820.D
Acq On : 25 Jun 2025 13:22
Operator : SY/MD
Sample : Q2413-02
Misc : 6.66g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-34

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: VY022820.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	460	474	491	rBV	56076	182002	8.32%	1.422%
2	5.635	635	642	653	rVB5	6691	22195	1.01%	0.173%
3	7.628	956	969	975	rBV	270905	657106	30.05%	5.136%
4	7.701	975	981	993	rVB	497011	1159219	53.01%	9.060%
5	8.055	1031	1039	1052	rBV	221254	486736	22.26%	3.804%
6	8.610	1122	1130	1144	rBV	814279	1605764	73.43%	12.550%
7	10.103	1367	1375	1383	rBV	1304397	2186842	100.00%	17.091%
8	11.414	1583	1590	1600	rBV	1187807	1952535	89.29%	15.260%
9	12.402	1746	1752	1762	rBV2	1030089	1753225	80.17%	13.702%
10	13.340	1900	1906	1920	rVB	1118267	1738898	79.52%	13.590%
11	13.883	1989	1995	2002	rVB2	253559	430175	19.67%	3.362%
12	14.529	2095	2101	2112	rVB3	98655	288553	13.19%	2.255%
13	14.743	2134	2136	2142	rVB7	16853	22418	1.03%	0.175%
14	15.224	2208	2215	2217	rBV	27862	67801	3.10%	0.530%
15	16.364	2396	2402	2410	rBV2	31768	87535	4.00%	0.684%
16	16.687	2443	2455	2463	rBV5	40789	154152	7.05%	1.205%

Sum of corrected areas: 12795156

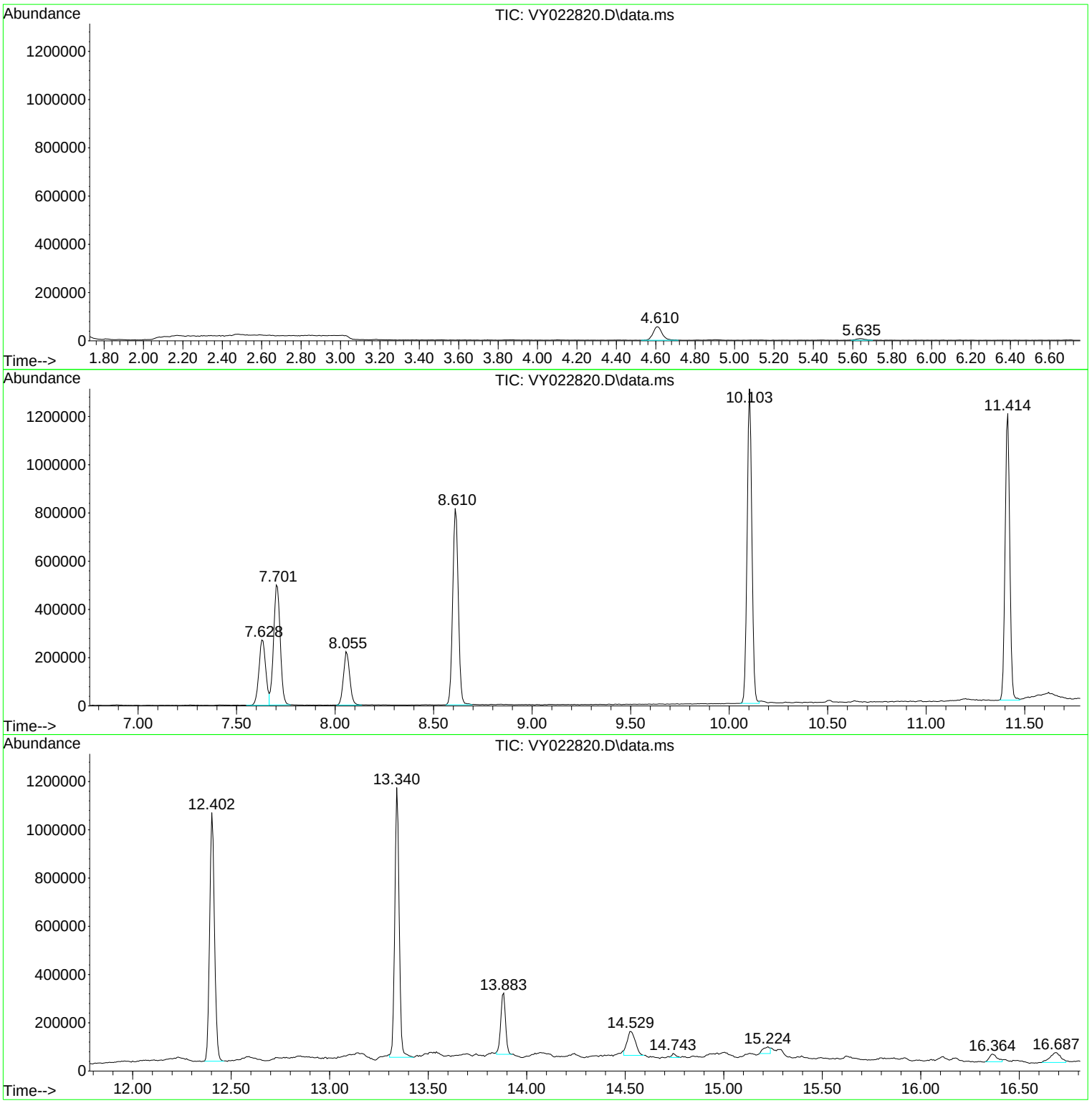
Sample Results: **VY022820.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022820.D
Acq On : 25 Jun 2025 13:22
Operator : SY/MD
Sample : Q2413-02
Misc : 6.66g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-34

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\VY062525\
Data File : VY022820.D
Acq On : 25 Jun 2025 13:22
Operator : SY/MD
Sample : Q2413-02
Misc : 6.66g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-34

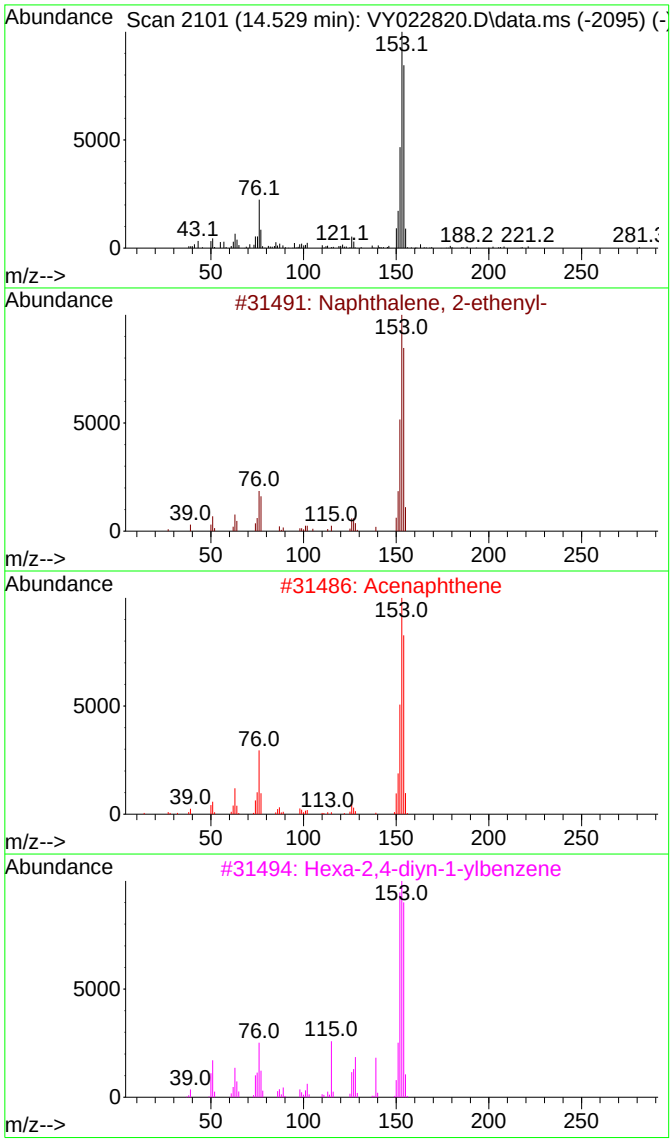
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

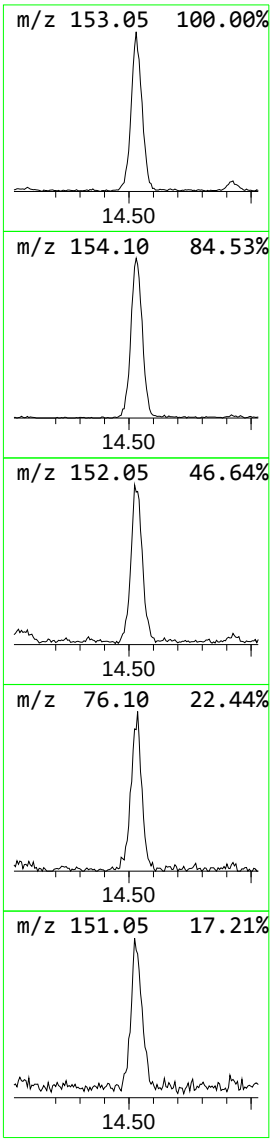
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Naphthalene, 2-ethenyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	8.30 ug/l	288553	1,4-Dichlorobenzene-d4	13.341

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	74
2	Acenaphthene	154	C12H10	000083-32-9	68
3	Hexa-2,4-diyn-1-ylbenzene	154	C12H10	000520-74-1	59
4	Benzene, (2,4-cyclopentadien-1-y...	154	C12H10	007338-50-3	59
5	3-Fluoro-para-anisaldehyde	154	C8H7FO2	000351-54-2	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022820.D
Acq On : 25 Jun 2025 13:22
Operator : SY/MD
Sample : Q2413-02
Misc : 6.66g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-34

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
Naphthalene, 2-...	14.529	8.3	ug/l	288553	4	13.341	1738900	50.0

Raw Data: **VY022821.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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022821.D	1		06/25/25 13:45	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.73	U	0.73	4.60	ug/Kg
74-83-9	Bromomethane	0.99	U	0.99	4.60	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.98	U	0.98	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.92	U	0.92	4.60	ug/Kg
67-64-1	Acetone	4.40	U	4.40	23.1	ug/Kg
75-15-0	Carbon Disulfide	0.98	U	0.98	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	5.10	J	3.30	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.79	U	0.79	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.74	U	0.74	4.60	ug/Kg
110-82-7	Cyclohexane	0.73	U	0.73	4.60	ug/Kg
78-93-3	2-Butanone	6.00	U	6.00	23.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.90	U	0.90	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.69	U	0.69	4.60	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.60	ug/Kg
67-66-3	Chloroform	0.78	U	0.78	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.86	U	0.86	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.84	U	0.84	4.60	ug/Kg
71-43-2	Benzene	0.73	U	0.73	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.72	U	0.72	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	23.1	ug/Kg
108-88-3	Toluene	0.72	U	0.72	4.60	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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022821.D	1		06/25/25 13:45	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	23.1	ug/Kg
124-48-1	Dibromochloromethane	0.80	U	0.80	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.81	U	0.81	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.97	U	0.97	4.60	ug/Kg
108-90-7	Chlorobenzene	0.84	U	0.84	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.20	ug/Kg
95-47-6	o-Xylene	0.76	U	0.76	4.60	ug/Kg
100-42-5	Styrene	0.66	U	0.66	4.60	ug/Kg
75-25-2	Bromoform	0.79	U	0.79	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.72	U	0.72	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	38.8		63 - 155	78%	SPK: 50
1868-53-7	Dibromofluoromethane	45.9		70 - 134	92%	SPK: 50
2037-26-5	Toluene-d8	49.1		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.0		17 - 146	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	382000	7.707			
540-36-3	1,4-Difluorobenzene	682000	8.61			
3114-55-4	Chlorobenzene-d5	597000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	245000	13.34			

Raw Data: **VY022821.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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022821.D	1		06/25/25 13:45	VY062525

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\VY062525\
Data File : VY022821.D
Acq On : 25 Jun 2025 13:45
Operator : SY/MD
Sample : Q2413-03
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-77

Quant Time: Jun 26 01:25:47 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

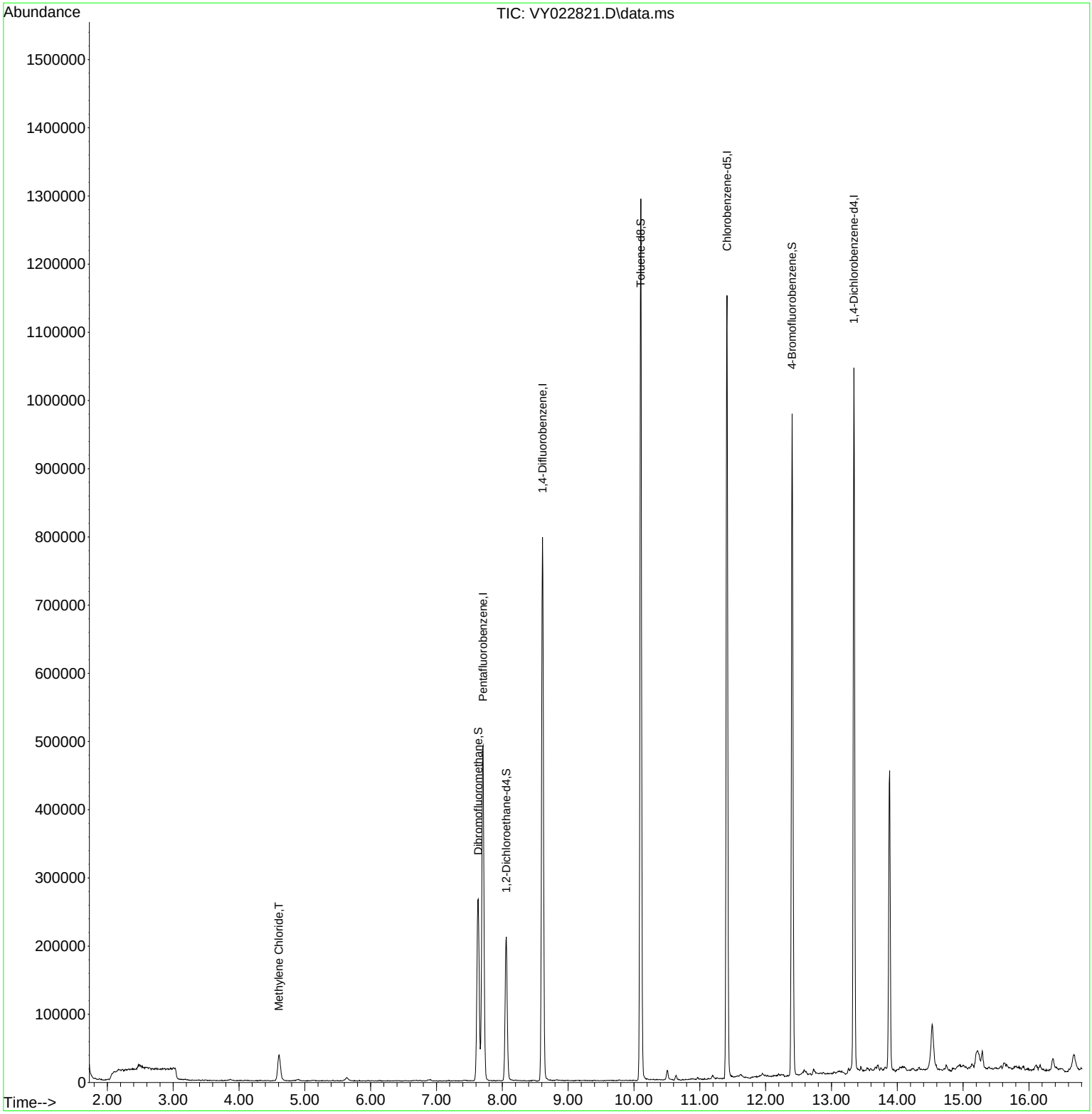
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	381808	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	681622	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	597468	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	245461	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	165536	38.846	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	77.700%		
35) Dibromofluoromethane	7.634	113	190082	45.855	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	91.700%		
50) Toluene-d8	10.103	98	807632	49.099	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	98.200%		
62) 4-Bromofluorobenzene	12.402	95	253931	48.021	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	96.040%		
Target Compounds						Qvalue
20) Methylene Chloride	4.604	84	28075	5.520	ug/l	88

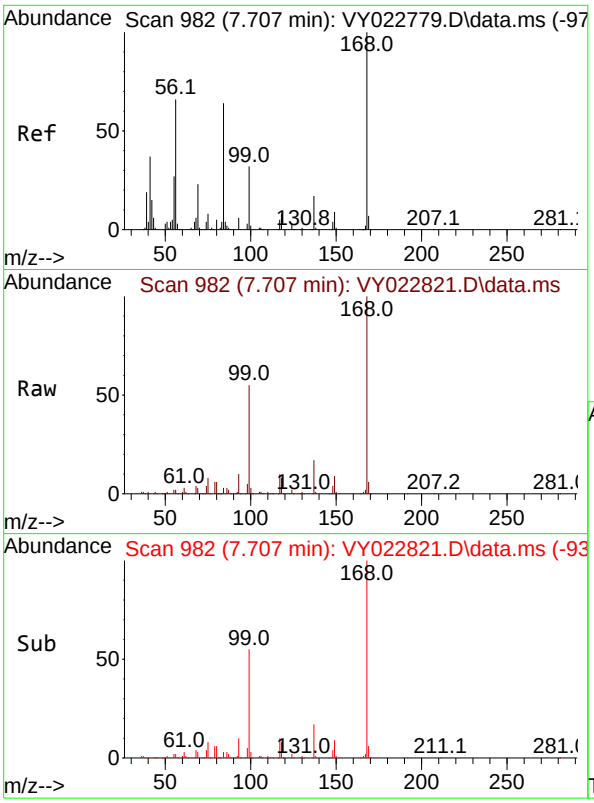
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022821.D
Acq On : 25 Jun 2025 13:45
Operator : SY/MD
Sample : Q2413-03
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-77

Quant Time: Jun 26 01:25:47 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



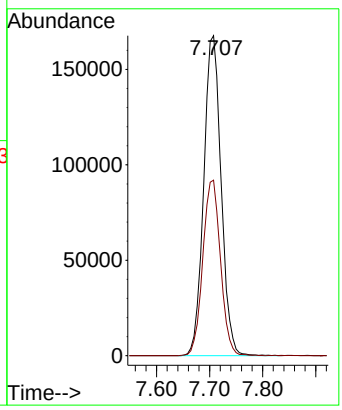


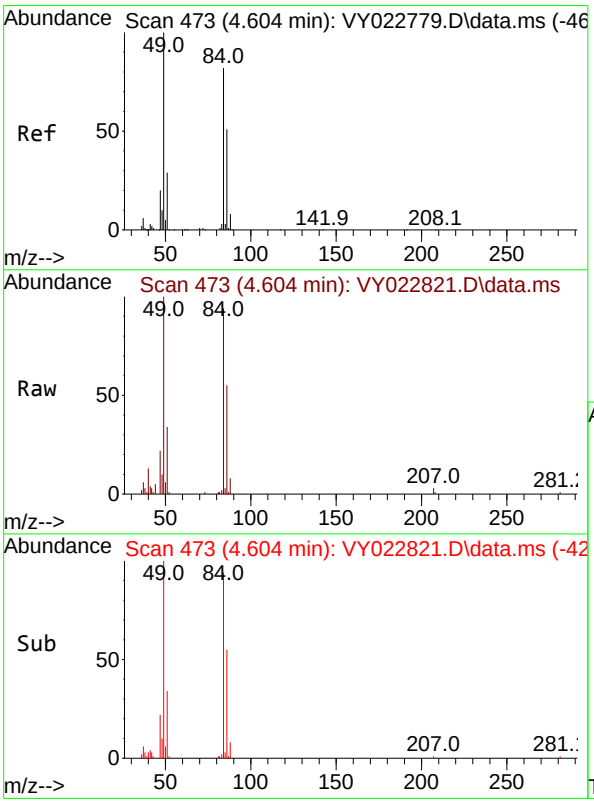
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022821.D
Acq: 25 Jun 2025 13:45

Instrument :
MSVOA_Y
ClientSampleId :
TP-77

Tgt Ion:168 Resp: 381808

Ion	Ratio	Lower	Upper
168	100		
99	54.9	44.3	66.5

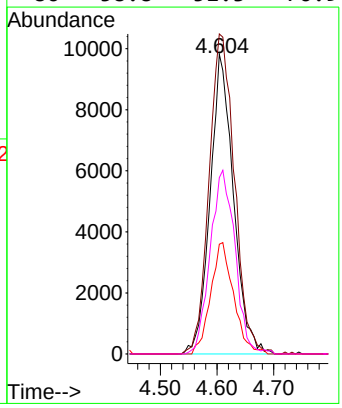


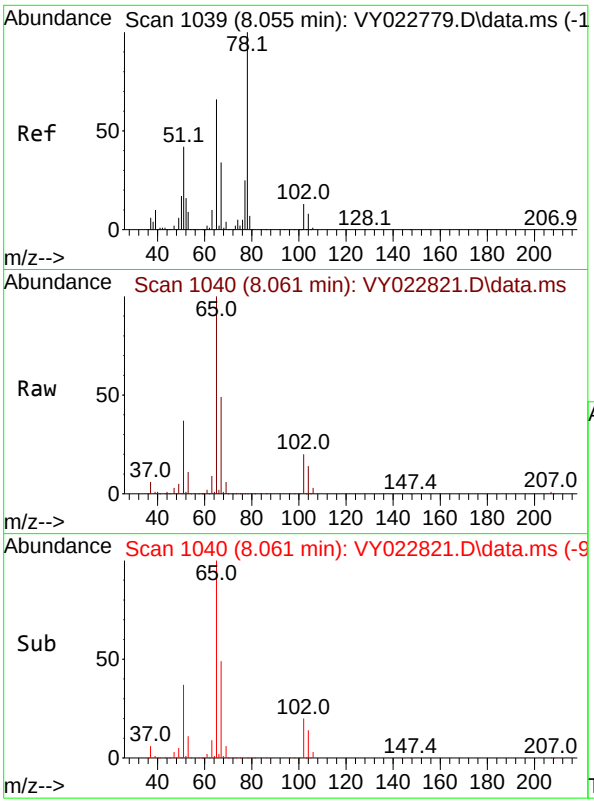


#20
Methylene Chloride
Concen: 5.520 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.018 min
Lab File: VY022821.D
Acq: 25 Jun 2025 13:45

Tgt Ion: 84 Resp: 28075

Ion	Ratio	Lower	Upper
84	100		
49	106.7	101.9	152.9
51	36.6	29.8	44.8
86	58.8	51.3	76.9



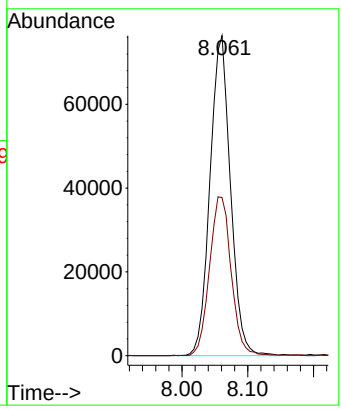


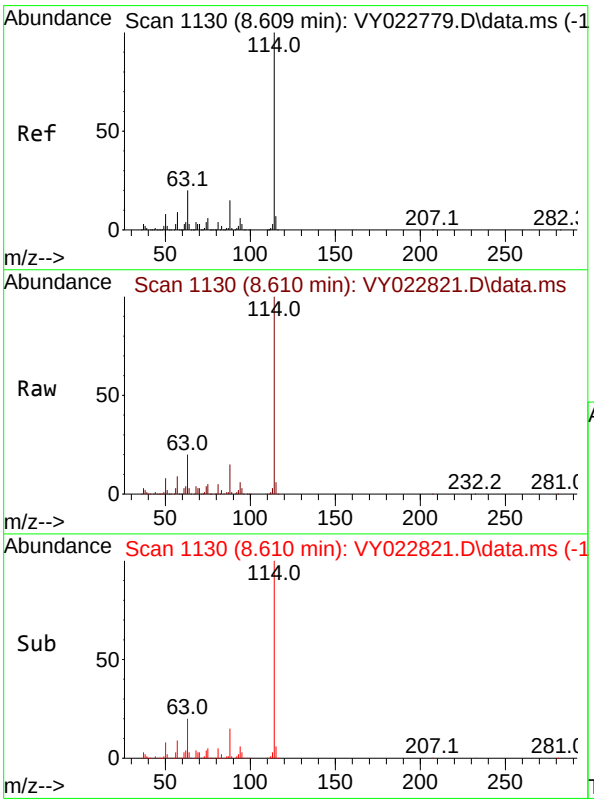
#33
1,2-Dichloroethane-d4
Concen: 38.846 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022821.D
Acq: 25 Jun 2025 13:45

Instrument :
MSVOA_Y
ClientSampleId :
TP-77

Tgt Ion: 65 Resp: 165536

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	103.4

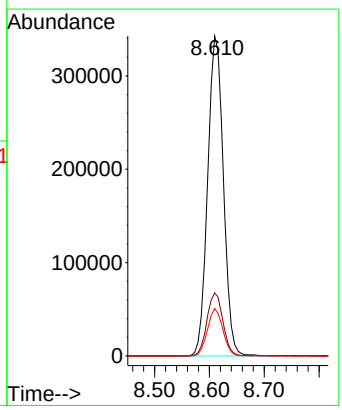


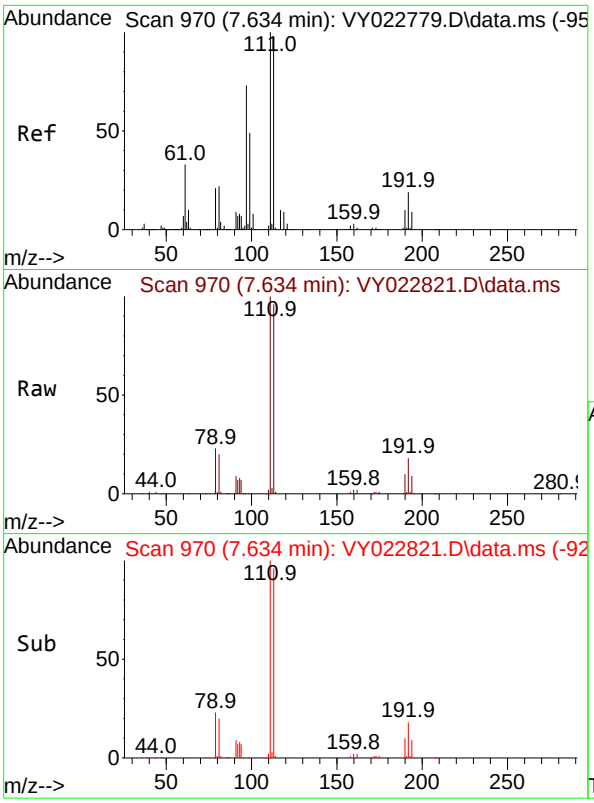


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022821.D
Acq: 25 Jun 2025 13:45

Tgt Ion:114 Resp: 681622

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.8
88	14.8	0.0	27.8



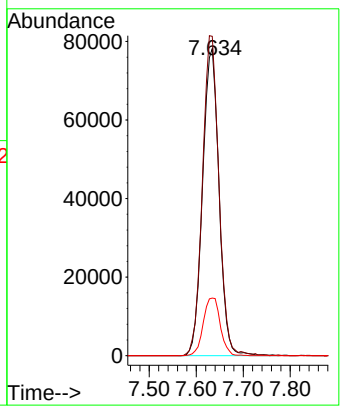


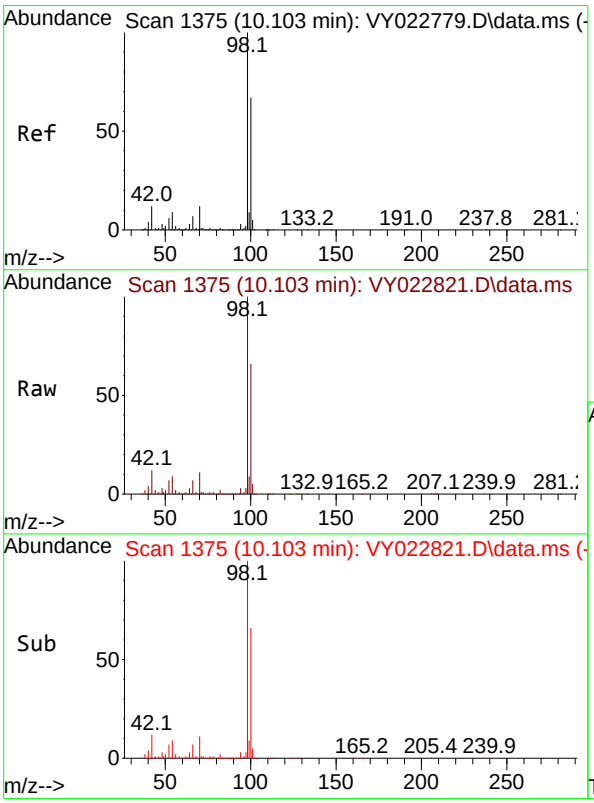
#35
Dibromofluoromethane
Concen: 45.855 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022821.D
Acq: 25 Jun 2025 13:45

Instrument :
MSVOA_Y
ClientSampleId :
TP-77

Tgt Ion:113 Resp: 190082

Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.1	121.7
192	19.4	14.2	21.2

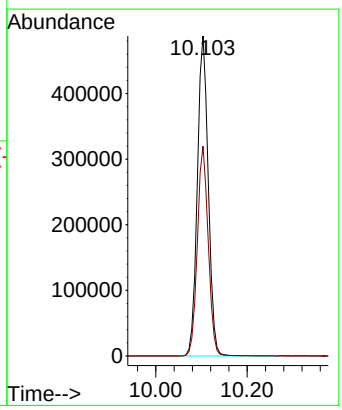


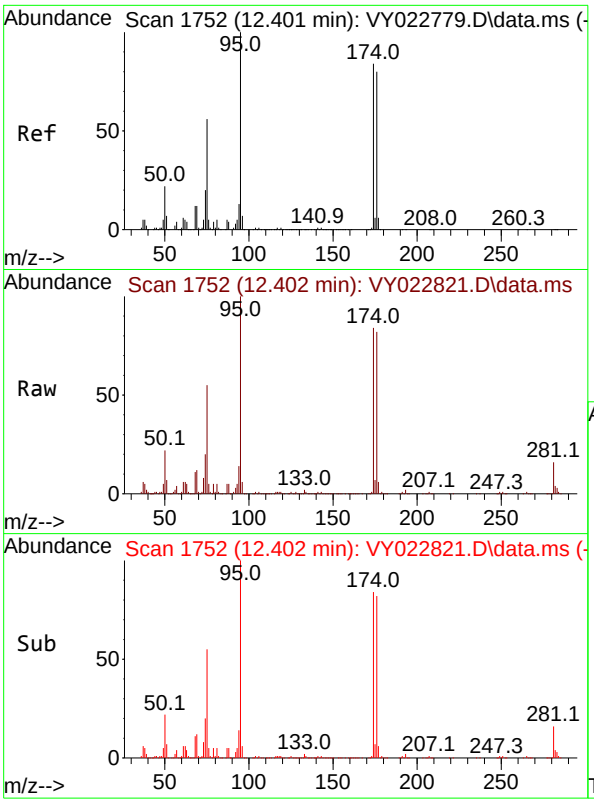


#50
Toluene-d8
Concen: 49.099 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022821.D
Acq: 25 Jun 2025 13:45

Tgt Ion: 98 Resp: 807632

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.4	77.0



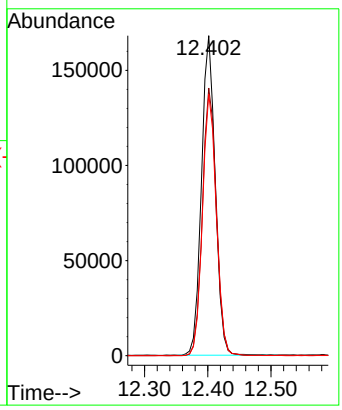


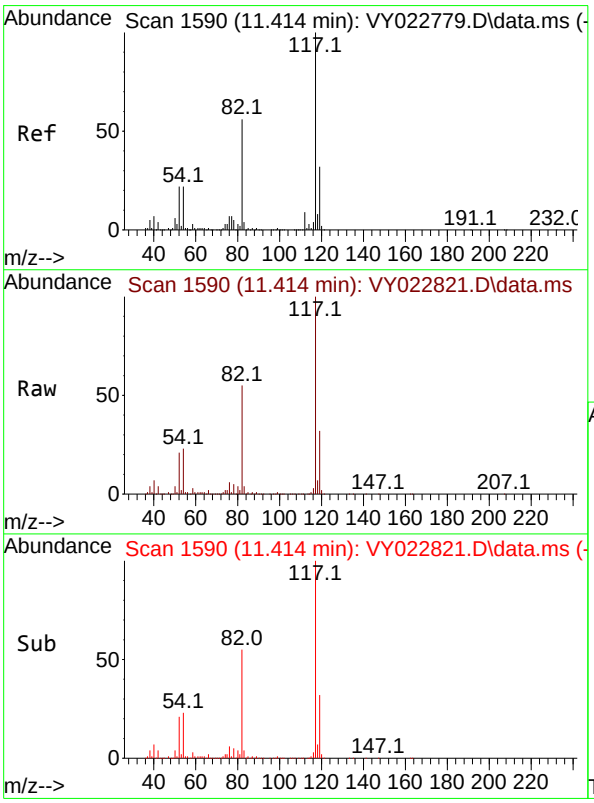
#62
4-Bromofluorobenzene
Concen: 48.021 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022821.D
Acq: 25 Jun 2025 13:45

Instrument :
MSVOA_Y
ClientSampleId :
TP-77

Tgt Ion: 95 Resp: 253931

Ion	Ratio	Lower	Upper
95	100		
174	85.5	0.0	170.0
176	82.7	0.0	166.2

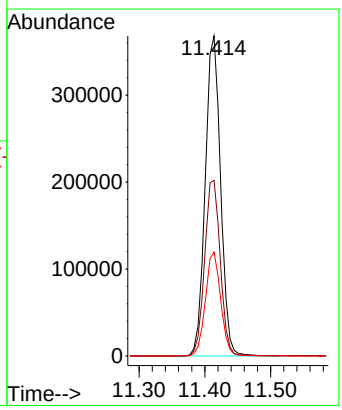


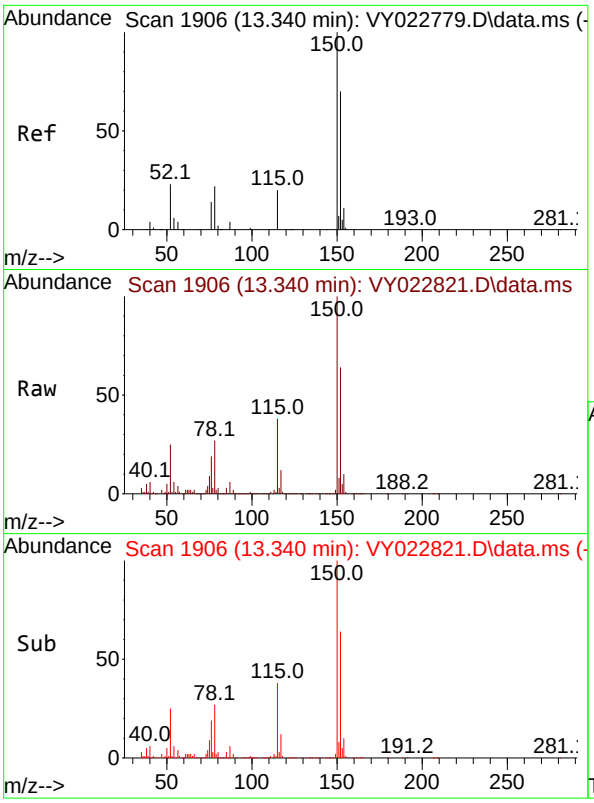


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022821.D
Acq: 25 Jun 2025 13:45

Tgt Ion:117 Resp: 597468

Ion	Ratio	Lower	Upper
117	100		
82	54.8	44.6	66.8
119	32.5	25.4	38.0



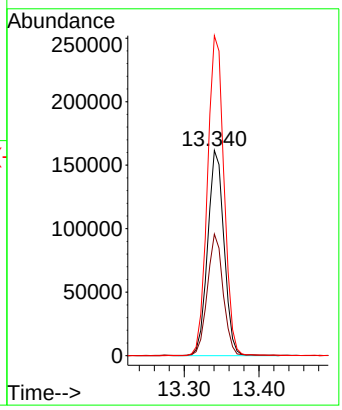


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022821.D
Acq: 25 Jun 2025 13:45

Instrument :
MSVOA_Y
ClientSampleId :
TP-77

Tgt Ion:152 Resp: 245461

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.9	86.7
150	157.8	0.0	349.6



Sample Results: **VY022821.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022821.D
Acq On : 25 Jun 2025 13:45
Operator : SY/MD
Sample : Q2413-03
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-77

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: VY022821.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.111	50	64	65	rBV4	12298	42685	1.97%	0.342%
2	4.610	462	474	489	rBV	37716	114447	5.28%	0.918%
3	7.634	959	970	975	rBV2	266229	648460	29.94%	5.202%
4	7.707	975	982	998	rVB	491486	1143249	52.78%	9.170%
5	8.061	1028	1040	1051	rBV	211486	479482	22.14%	3.846%
6	8.610	1117	1130	1147	rBV	797391	1600055	73.87%	12.835%
7	10.103	1363	1375	1386	rBV	1293487	2166050	100.00%	17.375%
8	10.506	1435	1441	1449	rBV2	13251	23919	1.10%	0.192%
9	11.414	1583	1590	1601	rBV	1148333	1893205	87.40%	15.186%
10	12.402	1745	1752	1766	rBV2	970382	1640129	75.72%	13.156%
11	13.340	1898	1906	1914	rBV	1027749	1530805	70.67%	12.279%
12	13.883	1988	1995	2004	rVB2	439002	722781	33.37%	5.798%
13	14.529	2092	2101	2116	rVB3	66279	207697	9.59%	1.666%
14	15.218	2205	2214	2222	rBV2	24490	99478	4.59%	0.798%
15	15.291	2222	2226	2232	rVB	24002	42482	1.96%	0.341%
16	16.364	2396	2402	2408	rBV3	15884	36752	1.70%	0.295%
17	16.681	2444	2454	2465	rBV4	21860	75044	3.46%	0.602%

Sum of corrected areas: 12466720

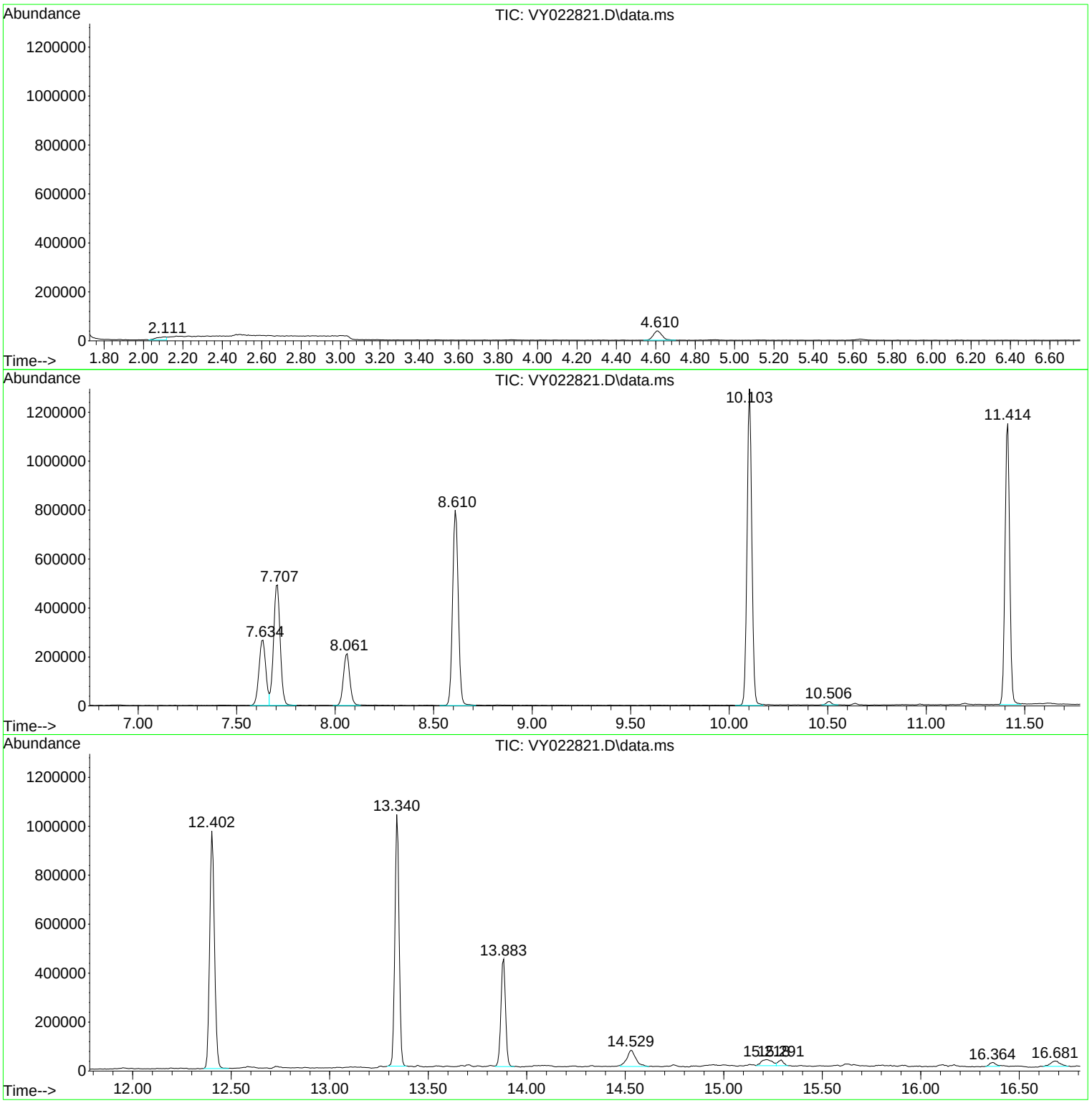
Sample Results: **VY022821.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022821.D
Acq On : 25 Jun 2025 13:45
Operator : SY/MD
Sample : Q2413-03
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-77

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: **VY022821.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022821.D
Acq On : 25 Jun 2025 13:45
Operator : SY/MD
Sample : Q2413-03
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-77

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\VY062525\
Data File : VY022821.D
Acq On : 25 Jun 2025 13:45
Operator : SY/MD
Sample : Q2413-03
Misc : 5.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-77

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: **VY022822.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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.5
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
VY022822.D	1		06/25/25 14:08	VY062525

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	4.10	U	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	5.60	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	0.83	U	0.83	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.64	U	0.64	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: **VY022822.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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.5
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
VY022822.D	1		06/25/25 14:08	VY062525

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	0.57	U	0.57	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.60	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	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	2.50	U	2.50	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	43.3		63 - 155	87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	49.7		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	386000	7.707			
540-36-3	1,4-Difluorobenzene	689000	8.609			
3114-55-4	Chlorobenzene-d5	620000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	262000	13.34			

Raw Data: **VY022822.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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.5
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
VY022822.D	1		06/25/25 14:08	VY062525

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\VY062525\
Data File : VY022822.D
Acq On : 25 Jun 2025 14:08
Operator : SY/MD
Sample : Q2413-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-74

Quant Time: Jun 26 01:26:07 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

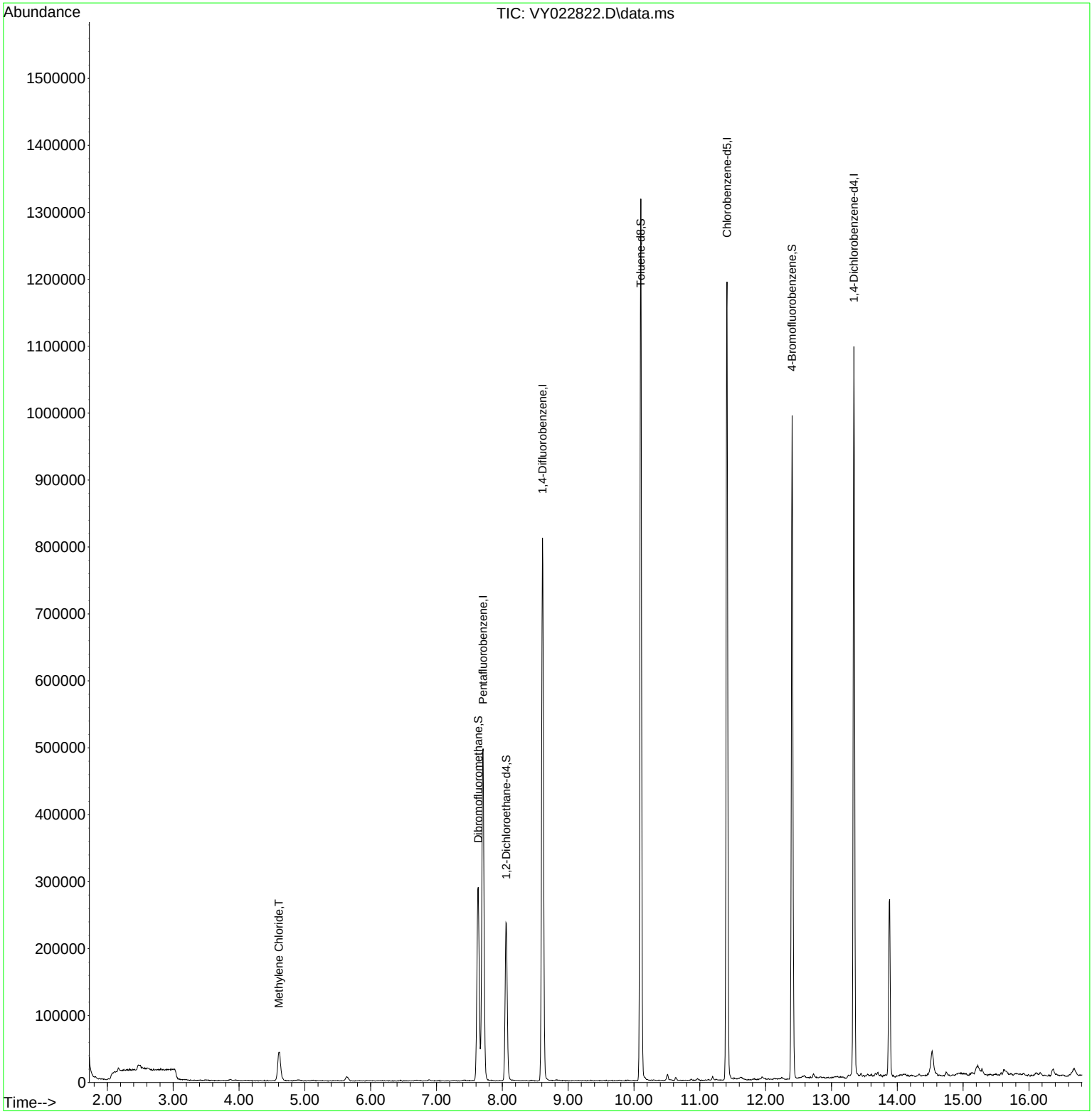
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	385627	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	688505	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	619901	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	261665	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	186483	43.328	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	86.660%		
35) Dibromofluoromethane	7.634	113	206159	49.236	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.480%		
50) Toluene-d8	10.103	98	825361	49.675	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	99.340%		
62) 4-Bromofluorobenzene	12.401	95	263147	49.267	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	98.540%		
Target Compounds						Qvalue
20) Methylene Chloride	4.604	84	33324	6.487	ug/l	86

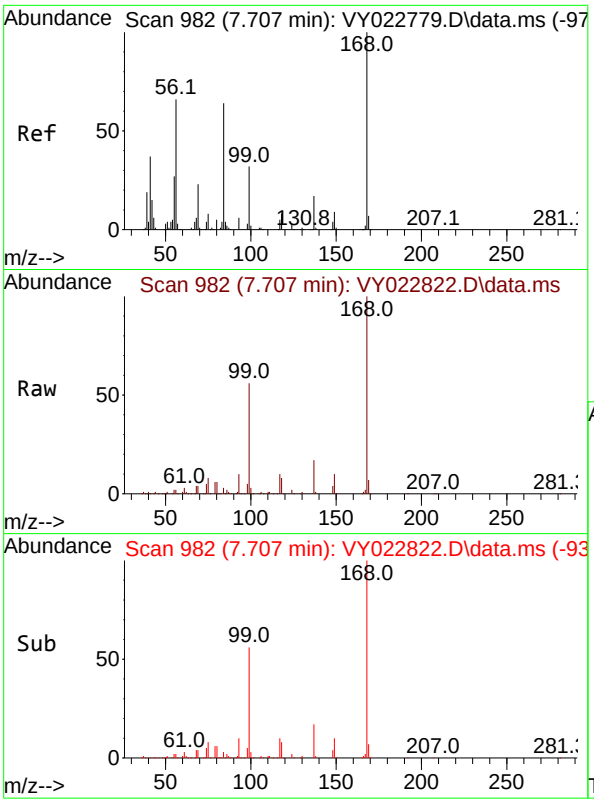
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022822.D
Acq On : 25 Jun 2025 14:08
Operator : SY/MD
Sample : Q2413-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-74

Quant Time: Jun 26 01:26:07 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



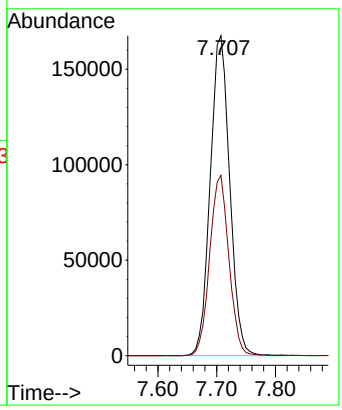


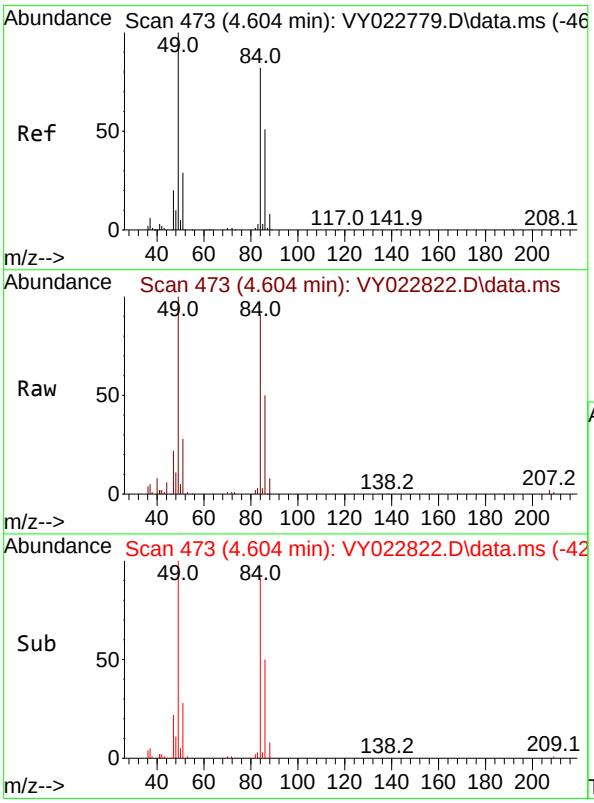
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022822.D
Acq: 25 Jun 2025 14:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-74

Tgt Ion:168 Resp: 385627

Ion	Ratio	Lower	Upper
168	100		
99	56.3	44.3	66.5

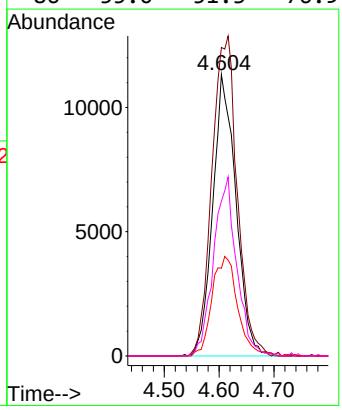


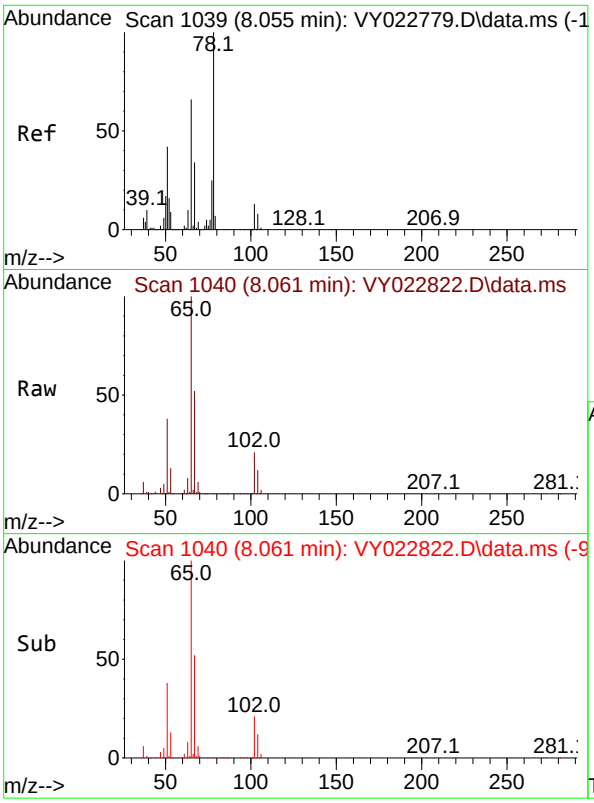


#20
Methylene Chloride
Concen: 6.487 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.018 min
Lab File: VY022822.D
Acq: 25 Jun 2025 14:08

Tgt Ion: 84 Resp: 33324

Ion	Ratio	Lower	Upper
84	100		
49	109.6	101.9	152.9
51	31.2	29.8	44.8
86	55.0	51.3	76.9



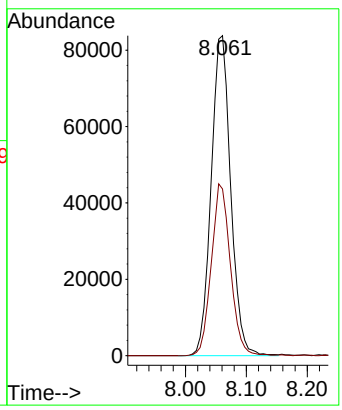


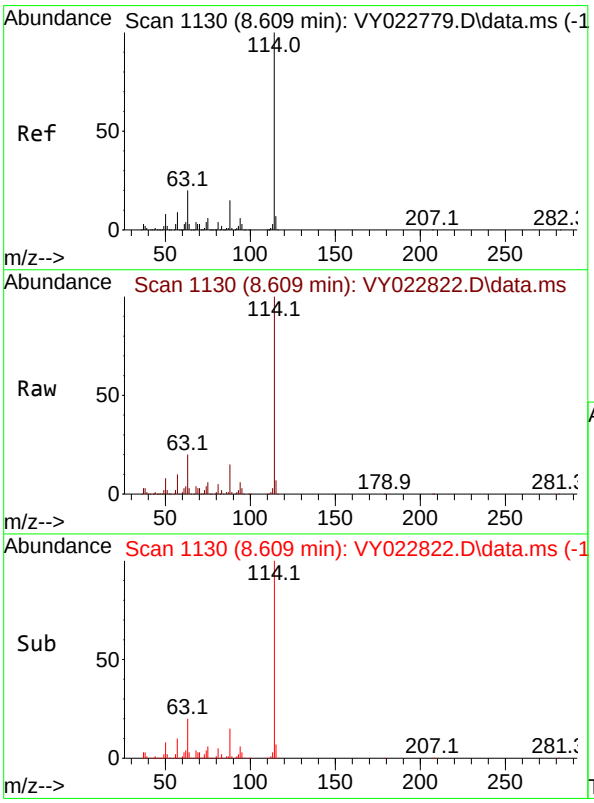
#33
1,2-Dichloroethane-d4
Concen: 43.328 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022822.D
Acq: 25 Jun 2025 14:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-74

Tgt Ion: 65 Resp: 186483

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	103.4

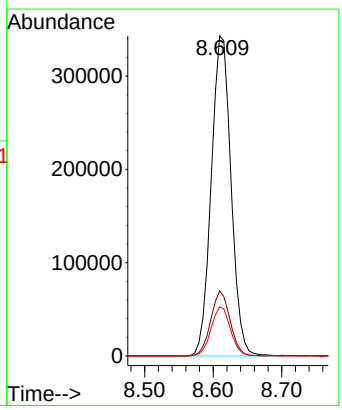


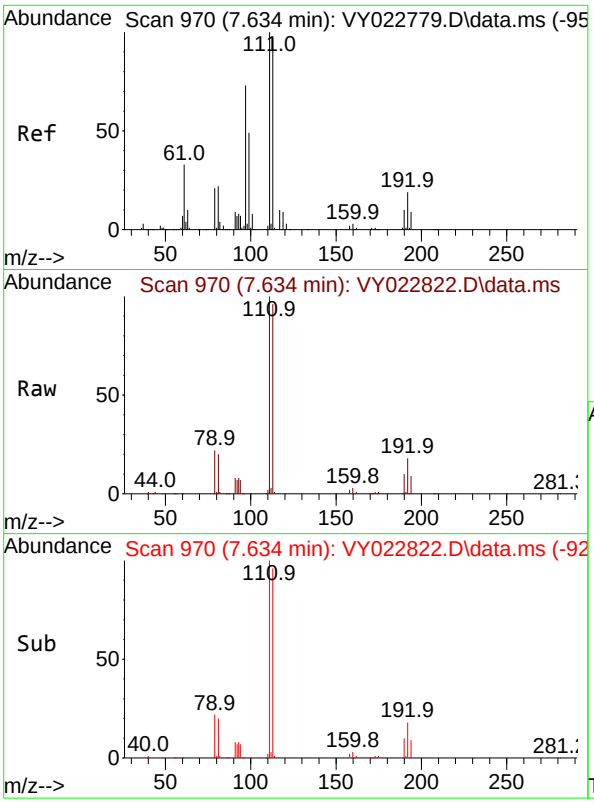


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022822.D
Acq: 25 Jun 2025 14:08

Tgt Ion:114 Resp: 688505

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.8
88	15.3	0.0	27.8



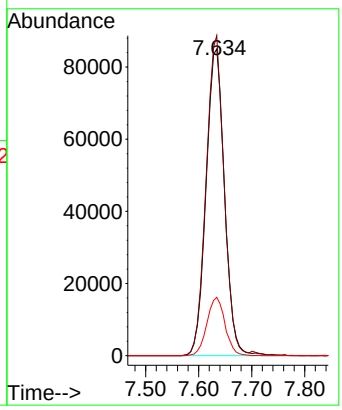


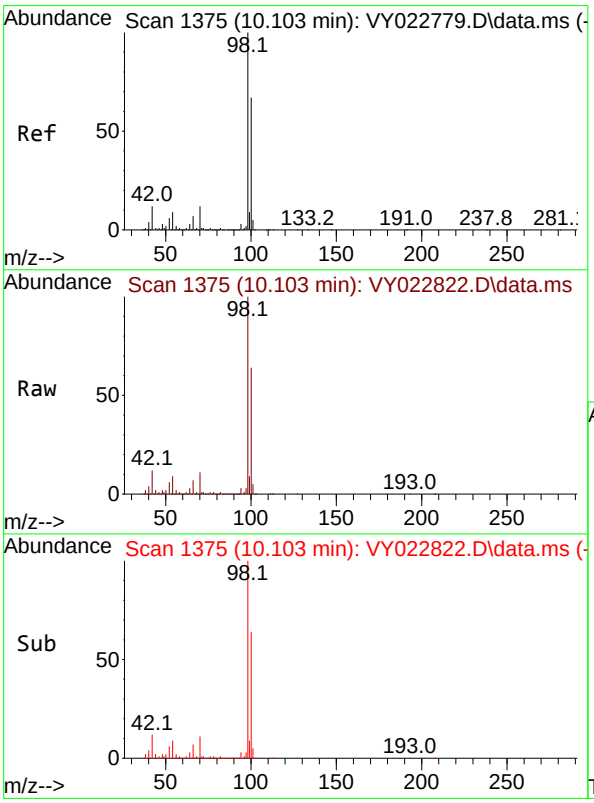
#35
Dibromofluoromethane
Concen: 49.236 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022822.D
Acq: 25 Jun 2025 14:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-74

Tgt Ion:113 Resp: 206159

Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.1	121.7
192	18.7	14.2	21.2

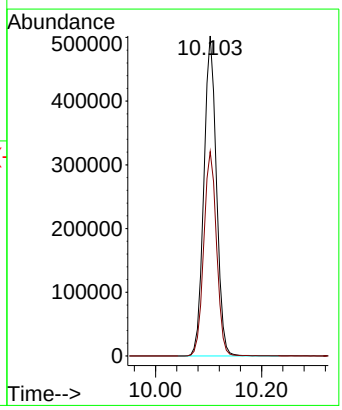


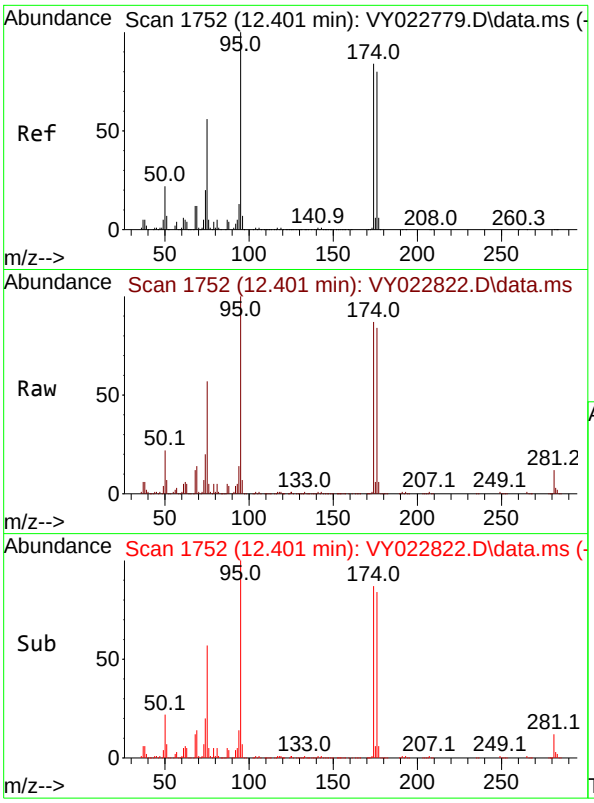


#50
Toluene-d8
Concen: 49.675 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022822.D
Acq: 25 Jun 2025 14:08

Tgt Ion: 98 Resp: 825361

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.4	77.0



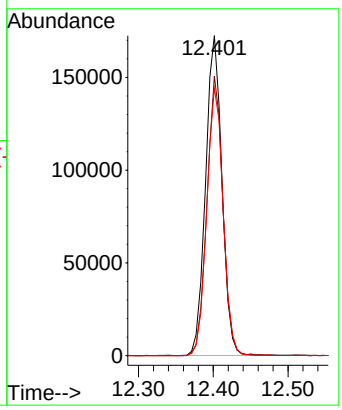


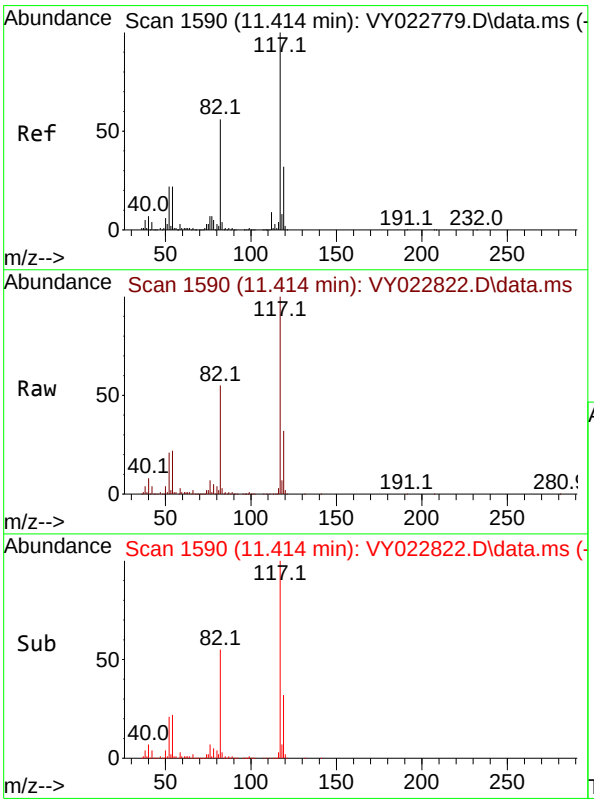
#62
4-Bromofluorobenzene
Concen: 49.267 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022822.D
Acq: 25 Jun 2025 14:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-74

Tgt Ion: 95 Resp: 263147

Ion	Ratio	Lower	Upper
95	100		
174	85.5	0.0	170.0
176	83.5	0.0	166.2

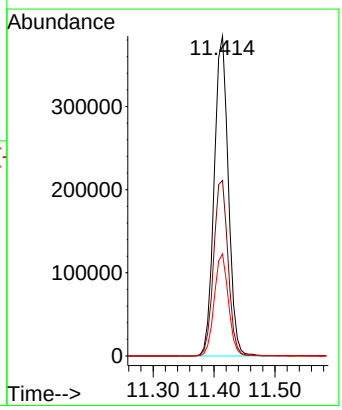


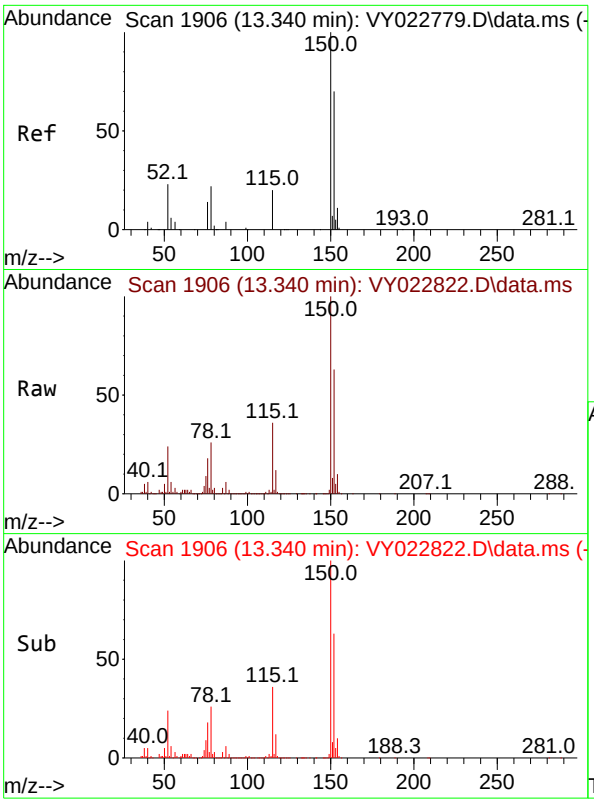


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022822.D
Acq: 25 Jun 2025 14:08

Tgt Ion:117 Resp: 619901

Ion	Ratio	Lower	Upper
117	100		
82	54.8	44.6	66.8
119	31.9	25.4	38.0



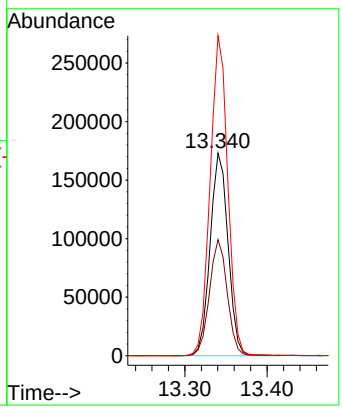


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022822.D
Acq: 25 Jun 2025 14:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-74

Tgt Ion:152 Resp: 261665

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.9	86.7
150	155.5	0.0	349.6



Sample Results: **VY022822.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022822.D
Acq On : 25 Jun 2025 14:08
Operator : SY/MD
Sample : Q2413-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-74

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: VY022822.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	463	475	489	rBV2	43010	142140	6.47%	1.166%
2	7.634	959	970	975	rBV	289199	691230	31.44%	5.670%
3	7.707	975	982	994	rVB	495322	1150406	52.33%	9.436%
4	8.055	1030	1039	1050	rBV	236440	537320	24.44%	4.407%
5	8.609	1118	1130	1147	rBV	811726	1618300	73.61%	13.274%
6	10.103	1367	1375	1385	rBV	1317518	2198403	100.00%	18.032%
7	11.414	1581	1590	1601	rBV	1192670	1966731	89.46%	16.132%
8	12.401	1745	1752	1764	rBV2	991109	1625156	73.92%	13.330%
9	13.340	1898	1906	1918	rVB	1089605	1637446	74.48%	13.431%
10	13.883	1988	1995	2004	rVB2	264559	441404	20.08%	3.620%
11	14.529	2091	2101	2111	rBV2	35417	106196	4.83%	0.871%
12	15.212	2206	2213	2214	rBV6	11282	22005	1.00%	0.180%
13	16.370	2397	2403	2409	rBV8	9518	22876	1.04%	0.188%
14	16.687	2450	2455	2465	rVB7	11214	32191	1.46%	0.264%

Sum of corrected areas: 12191804

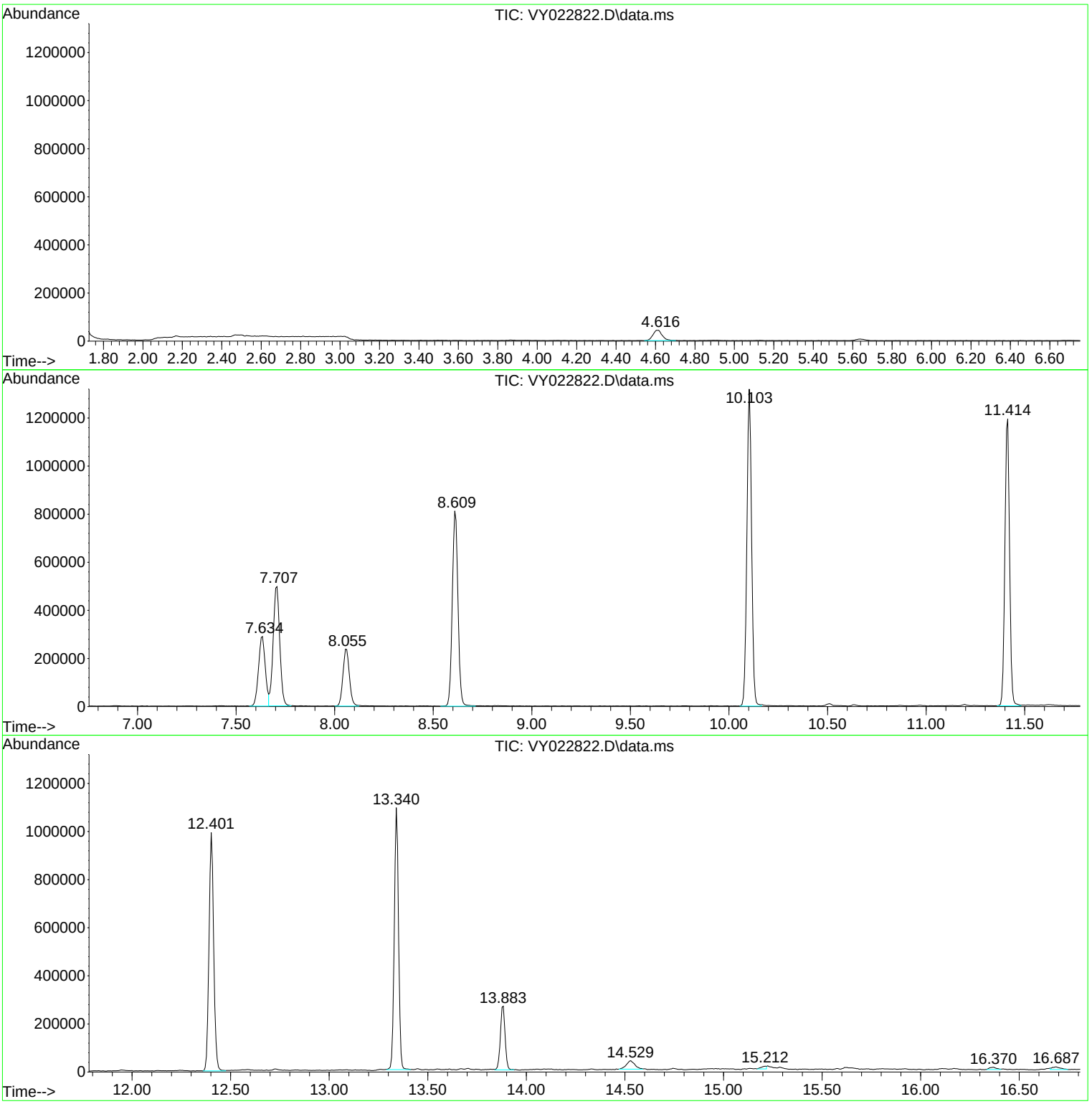
Sample Results: **VY022822.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022822.D
Acq On : 25 Jun 2025 14:08
Operator : SY/MD
Sample : Q2413-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-74

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: **VY022822.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022822.D
Acq On : 25 Jun 2025 14:08
Operator : SY/MD
Sample : Q2413-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-74

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\VY062525\
Data File : VY022822.D
Acq On : 25 Jun 2025 14:08
Operator : SY/MD
Sample : Q2413-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-74

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: **VY022823.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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.1
Sample Wt/Vol:	6.22 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022823.D	1		06/25/25 14:32	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.20	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.20	ug/Kg
75-01-4	Vinyl Chloride	0.82	U	0.82	5.20	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.20	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.20	ug/Kg
67-64-1	Acetone	120		4.90	26.1	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.76	U	0.76	5.20	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.20	ug/Kg
75-09-2	Methylene Chloride	8.20	J	3.70	10.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.90	U	0.90	5.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.83	U	0.83	5.20	ug/Kg
110-82-7	Cyclohexane	0.82	U	0.82	5.20	ug/Kg
78-93-3	2-Butanone	19.3	J	6.80	26.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.78	U	0.78	5.20	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.20	ug/Kg
67-66-3	Chloroform	0.88	U	0.88	5.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.97	U	0.97	5.20	ug/Kg
108-87-2	Methylcyclohexane	0.95	U	0.95	5.20	ug/Kg
71-43-2	Benzene	0.82	U	0.82	5.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.82	U	0.82	5.20	ug/Kg
79-01-6	Trichloroethene	0.84	U	0.84	5.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.95	U	0.95	5.20	ug/Kg
75-27-4	Bromodichloromethane	0.81	U	0.81	5.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	26.1	ug/Kg
108-88-3	Toluene	0.81	U	0.81	5.20	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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.1
Sample Wt/Vol:	6.22 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022823.D	1		06/25/25 14:32	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.68	U	0.68	5.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.65	U	0.65	5.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.96	U	0.96	5.20	ug/Kg
591-78-6	2-Hexanone	3.80	U	3.80	26.1	ug/Kg
124-48-1	Dibromochloromethane	0.91	U	0.91	5.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.92	U	0.92	5.20	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.20	ug/Kg
108-90-7	Chlorobenzene	0.95	U	0.95	5.20	ug/Kg
100-41-4	Ethyl Benzene	0.70	U	0.70	5.20	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.4	ug/Kg
95-47-6	o-Xylene	0.85	U	0.85	5.20	ug/Kg
100-42-5	Styrene	0.74	U	0.74	5.20	ug/Kg
75-25-2	Bromoform	0.90	U	0.90	5.20	ug/Kg
98-82-8	Isopropylbenzene	0.81	U	0.81	5.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	3.10	5.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	3.30	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.3		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	49.0		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		17 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	353000	7.701			
540-36-3	1,4-Difluorobenzene	632000	8.609			
3114-55-4	Chlorobenzene-d5	568000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	244000	13.34			

Raw Data: **VY022823.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:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.1
Sample Wt/Vol:	6.22 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022823.D	1		06/25/25 14:32	VY062525

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\VY062525\
Data File : VY022823.D
Acq On : 25 Jun 2025 14:32
Operator : SY/MD
Sample : Q2413-05
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

Quant Time: Jun 26 01:26:27 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

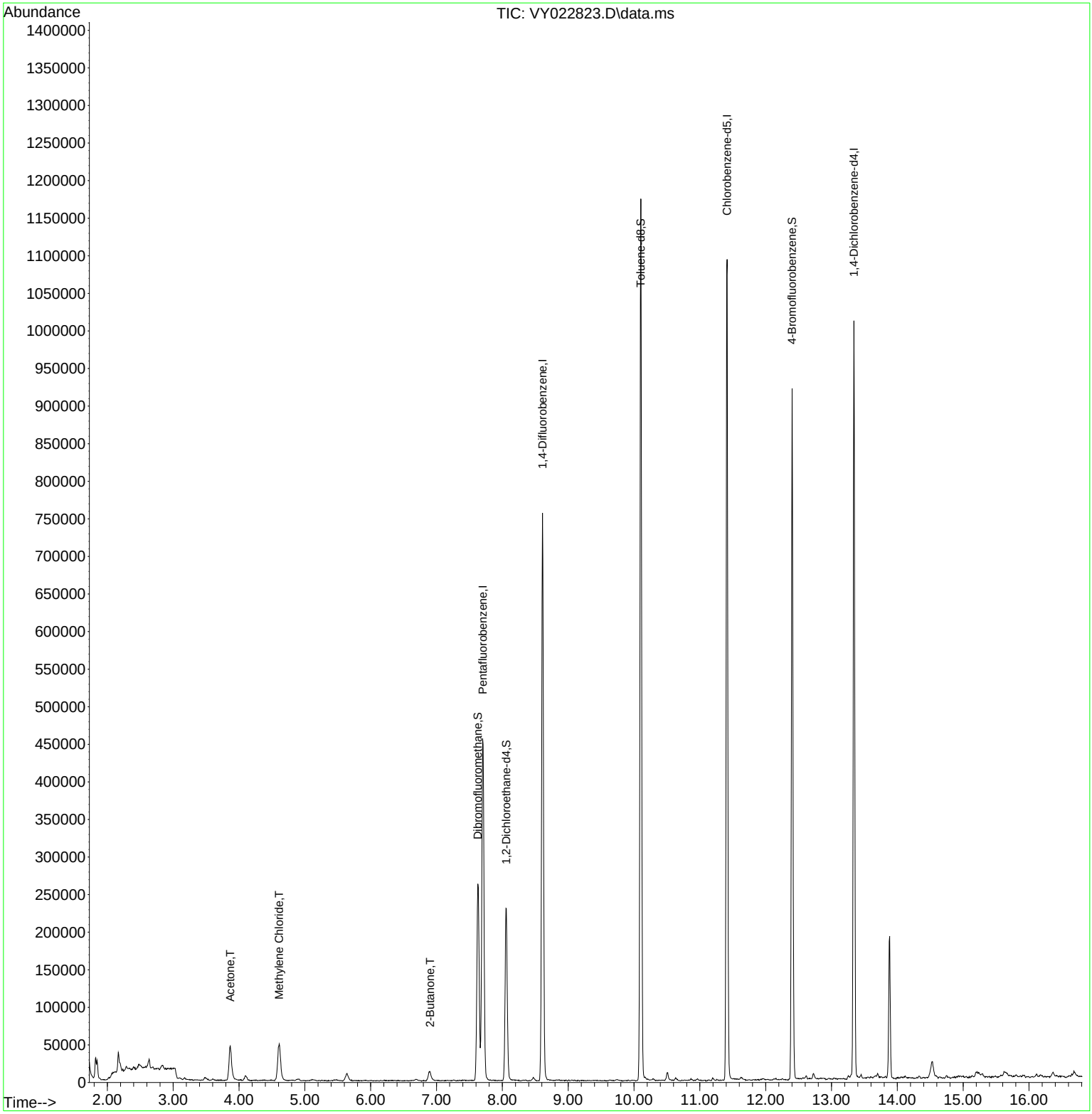
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	352660	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.609	114	632034	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	567782	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	243559	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	182145	46.276	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 92.560%			
35) Dibromofluoromethane	7.628	113	189784	49.375	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.760%			
50) Toluene-d8	10.103	98	746630	48.951	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.900%			
62) 4-Bromofluorobenzene	12.401	95	246645	50.303	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.600%			
Target Compounds						Qvalue
16) Acetone	3.866	43	83658	112.452	ug/l	96
20) Methylene Chloride	4.610	84	36735	7.819	ug/l	84
25) 2-Butanone	6.902	43	20062	18.529	ug/l	98

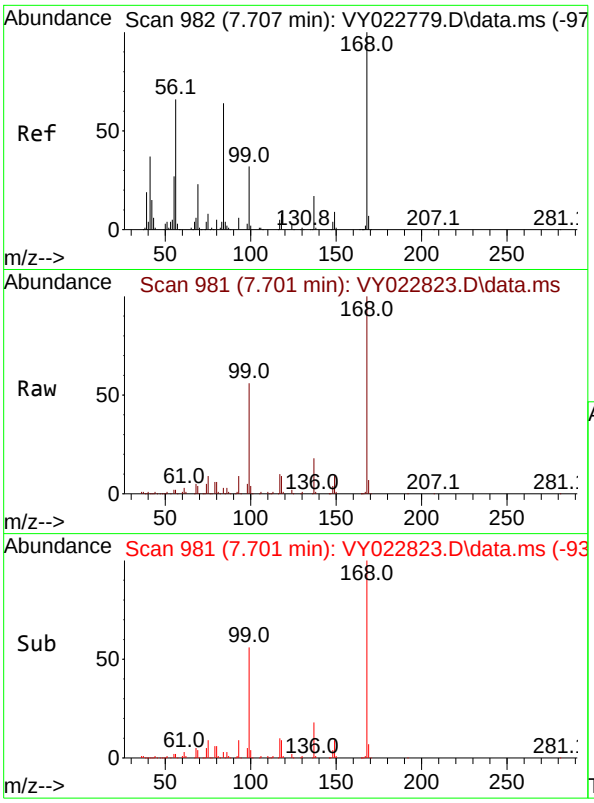
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022823.D
Acq On : 25 Jun 2025 14:32
Operator : SY/MD
Sample : Q2413-05
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

Quant Time: Jun 26 01:26:27 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



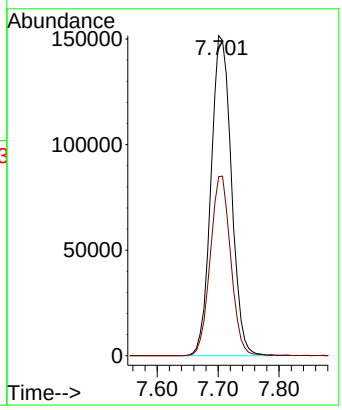


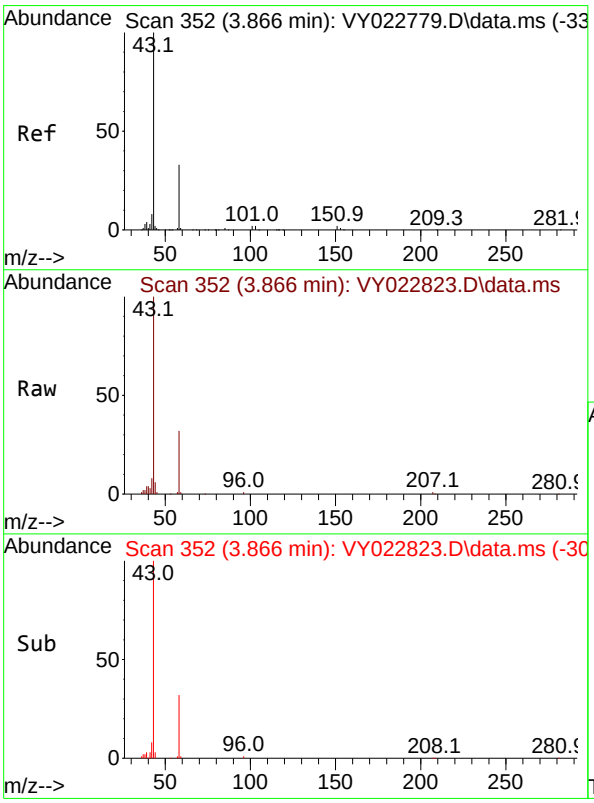
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY022823.D
Acq: 25 Jun 2025 14:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

Tgt Ion:168 Resp: 352660

Ion	Ratio	Lower	Upper
168	100		
99	55.9	44.3	66.5

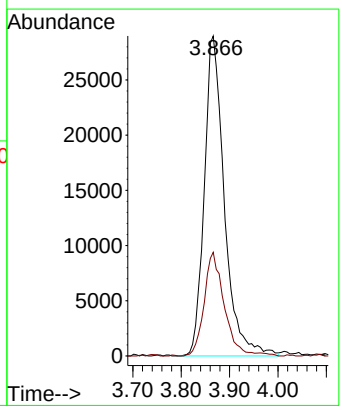


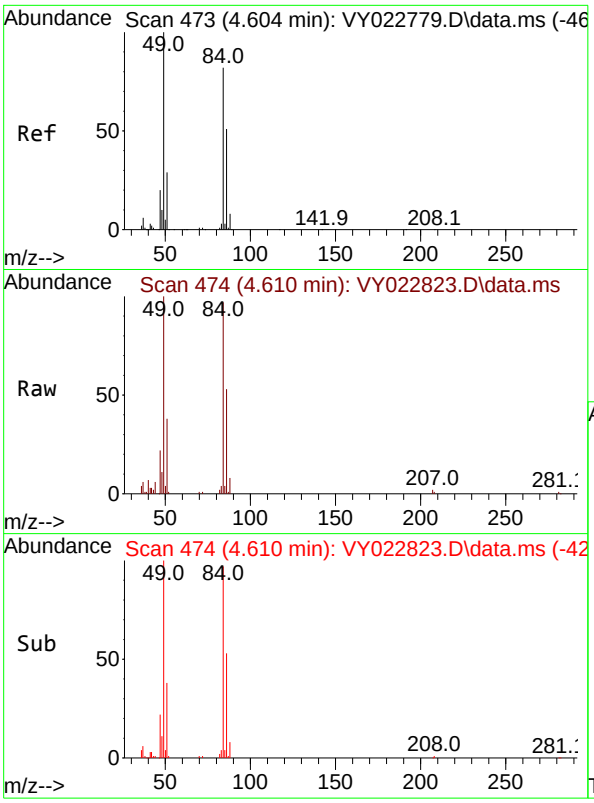


#16
Acetone
Concen: 112.452 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022823.D
Acq: 25 Jun 2025 14:32

Tgt Ion: 43 Resp: 83658

Ion	Ratio	Lower	Upper
43	100		
58	32.4	24.0	36.0



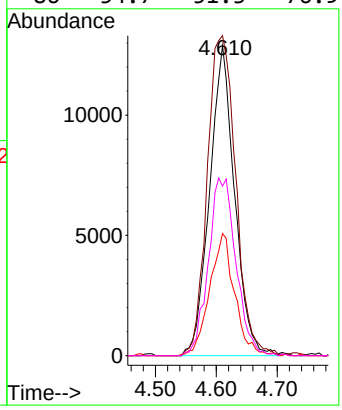


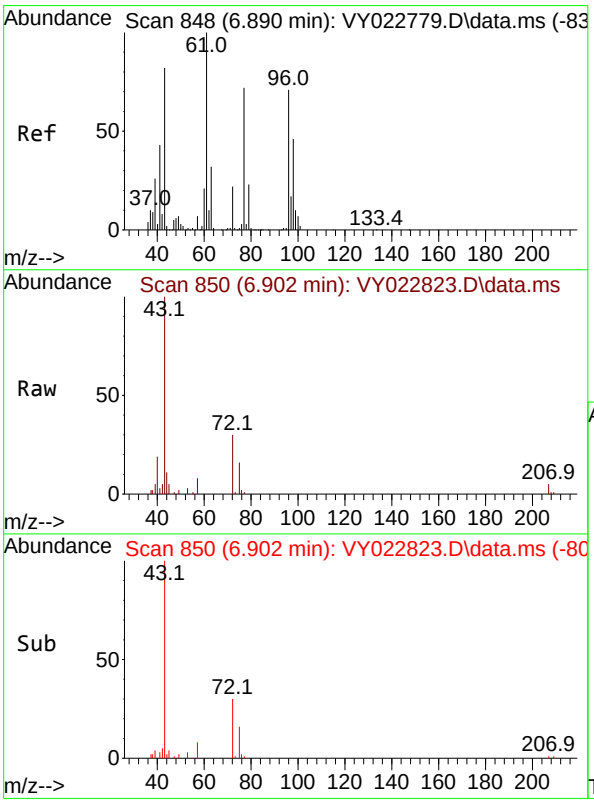
#20
Methylene Chloride
Concen: 7.819 ug/l
RT: 4.610 min Scan# 4
Delta R.T. -0.012 min
Lab File: VY022823.D
Acq: 25 Jun 2025 14:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

Tgt Ion: 84 Resp: 36735

Ion	Ratio	Lower	Upper
84	100		
49	103.2	101.9	152.9
51	39.4	29.8	44.8
86	54.7	51.3	76.9

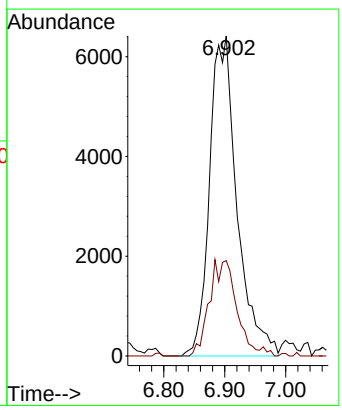


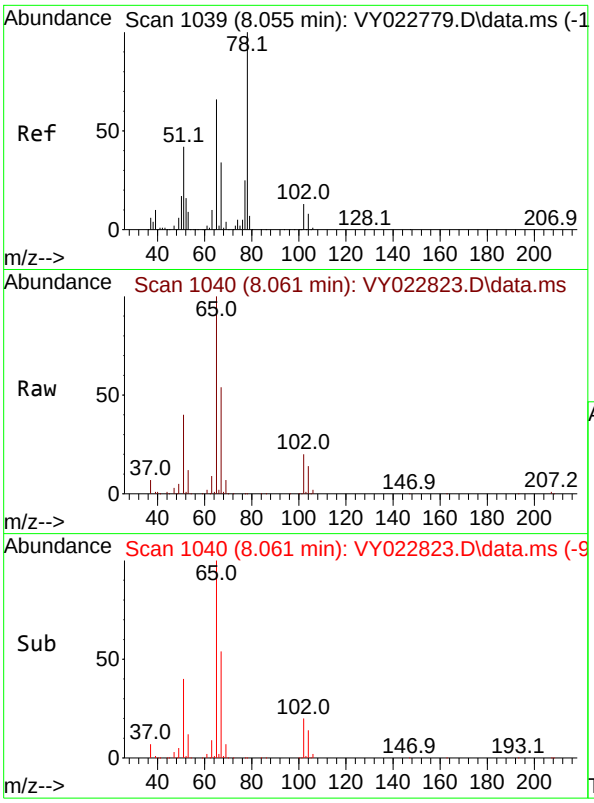


#25
2-Butanone
Concen: 18.529 ug/l
RT: 6.902 min Scan# 850
Delta R.T. -0.000 min
Lab File: VY022823.D
Acq: 25 Jun 2025 14:32

Tgt Ion: 43 Resp: 20062

Ion	Ratio	Lower	Upper
43	100		
72	29.8	22.9	34.3



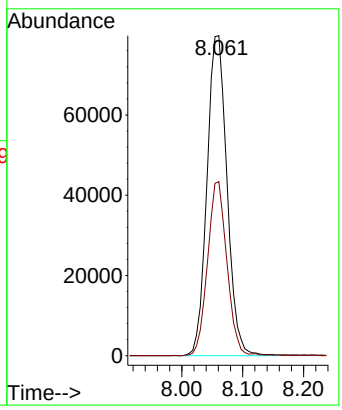


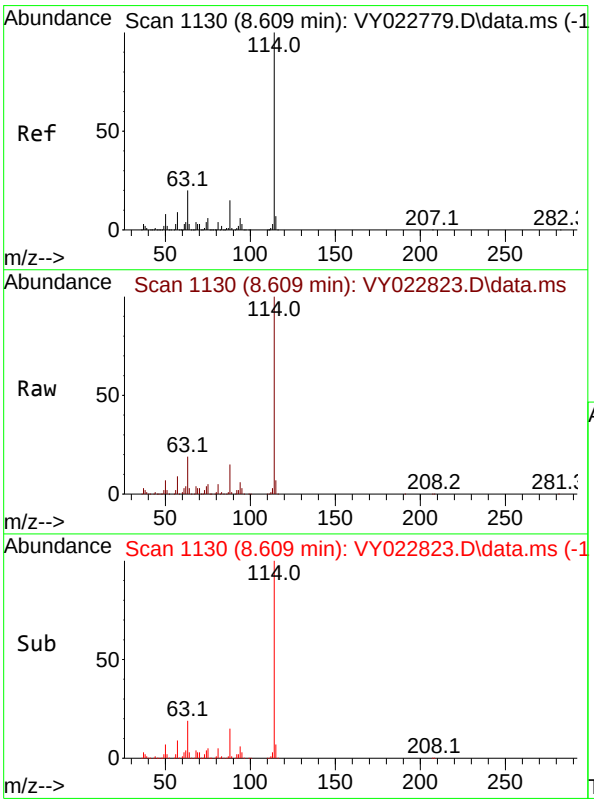
#33
1,2-Dichloroethane-d4
Concen: 46.276 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022823.D
Acq: 25 Jun 2025 14:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

Tgt Ion: 65 Resp: 182145

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	103.4

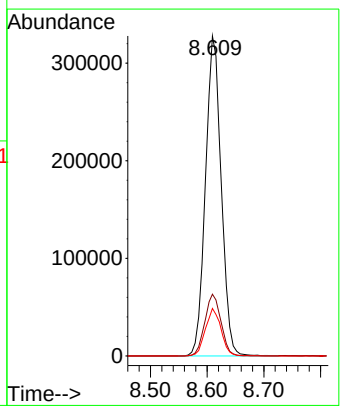


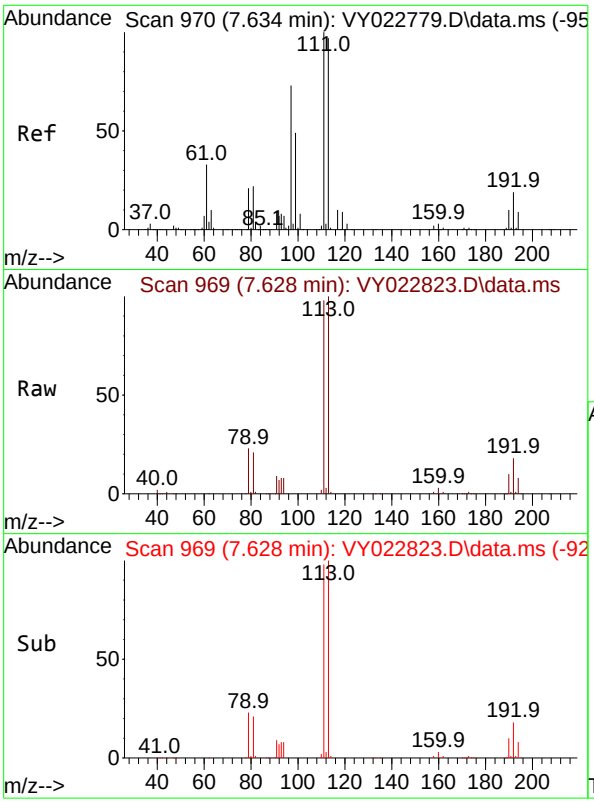


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022823.D
Acq: 25 Jun 2025 14:32

Tgt Ion:114 Resp: 632034

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	40.8
88	14.8	0.0	27.8



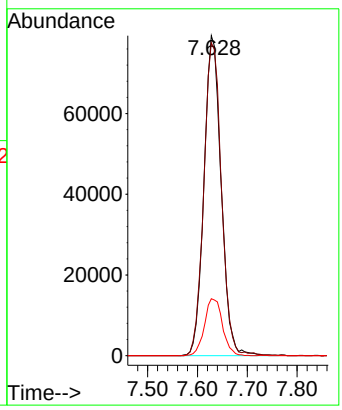


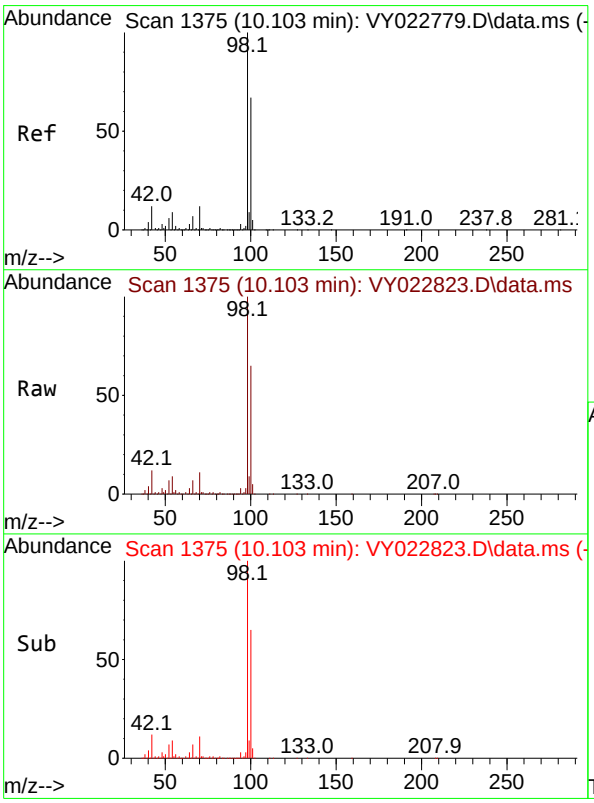
#35
Dibromofluoromethane
Concen: 49.375 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY022823.D
Acq: 25 Jun 2025 14:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

Tgt Ion:113 Resp: 189784

Ion	Ratio	Lower	Upper
113	100		
111	100.4	81.1	121.7
192	18.7	14.2	21.2

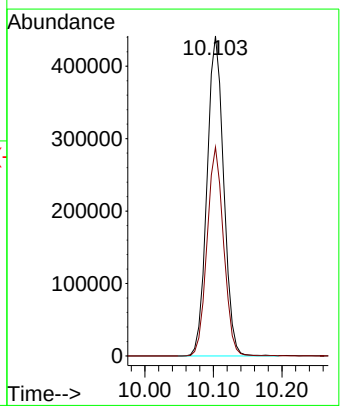


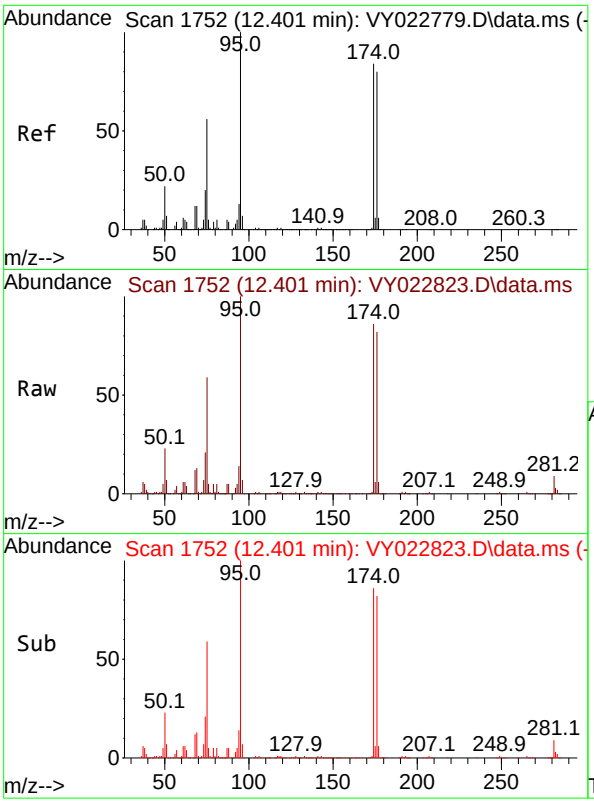


#50
Toluene-d8
Concen: 48.951 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022823.D
Acq: 25 Jun 2025 14:32

Tgt Ion: 98 Resp: 746630

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.4	77.0



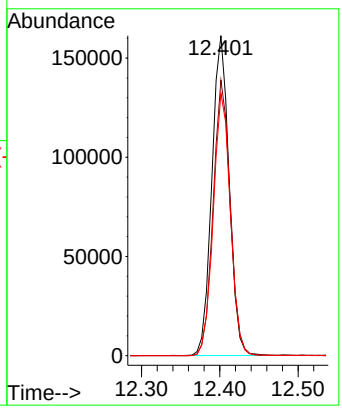


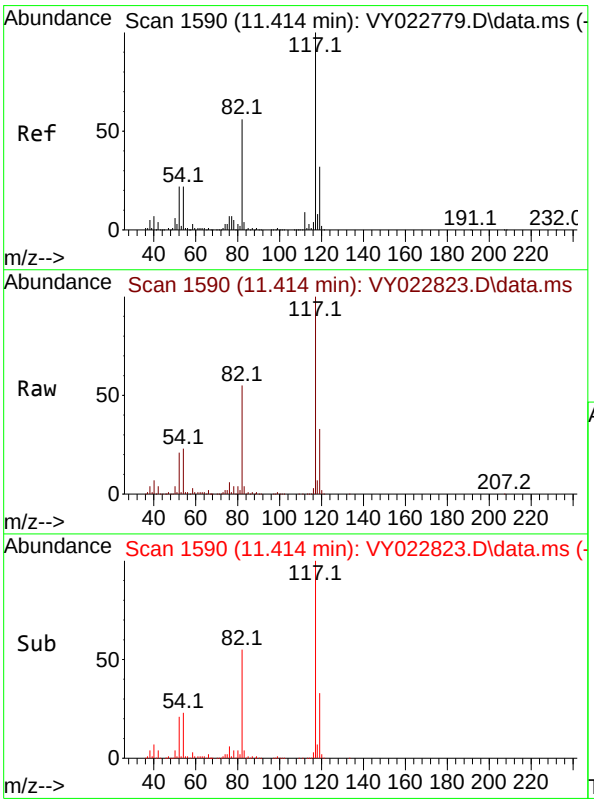
#62
4-Bromofluorobenzene
Concen: 50.303 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022823.D
Acq: 25 Jun 2025 14:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

Tgt Ion: 95 Resp: 246645

Ion	Ratio	Lower	Upper
95	100		
174	85.5	0.0	170.0
176	81.5	0.0	166.2

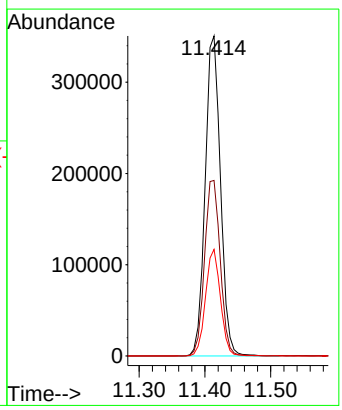


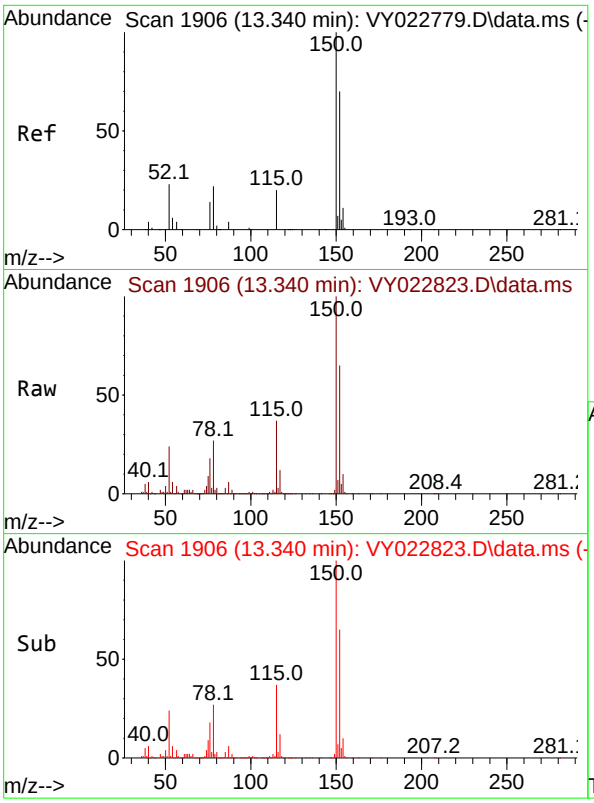


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022823.D
Acq: 25 Jun 2025 14:32

Tgt Ion:117 Resp: 567782

Ion	Ratio	Lower	Upper
117	100		
82	54.8	44.6	66.8
119	33.3	25.4	38.0



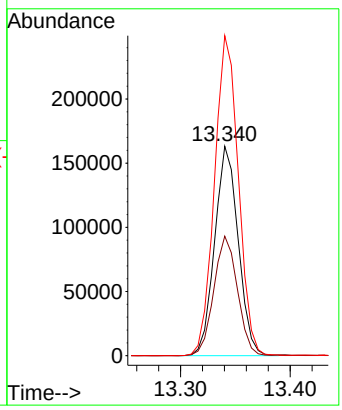


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022823.D
Acq: 25 Jun 2025 14:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

Tgt Ion:152 Resp: 243559

Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.9	86.7
150	155.2	0.0	349.6



Sample Results: **VY022823.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022823.D
Acq On : 25 Jun 2025 14:32
Operator : SY/MD
Sample : Q2413-05
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

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: VY022823.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	11	17	19	rBV	27235	43236	2.17%	0.379%
2	1.842	19	20	30	rVB	25792	31052	1.56%	0.272%
3	2.165	69	73	83	rBV2	24871	50823	2.55%	0.446%
4	3.866	343	352	364	rBV	45238	126497	6.34%	1.109%
5	4.610	463	474	489	rBV2	48988	159036	7.97%	1.394%
6	5.640	632	643	652	rBV5	10257	32636	1.64%	0.286%
7	6.896	840	849	859	rBV2	12861	41646	2.09%	0.365%
8	7.628	960	969	975	rBV	261332	626307	31.38%	5.490%
9	7.701	975	981	997	rVB	454651	1062453	53.23%	9.313%
10	8.055	1030	1039	1052	rBV	229687	522367	26.17%	4.579%
11	8.609	1121	1130	1142	rBV	755511	1473160	73.81%	12.914%
12	10.103	1365	1375	1384	rBV	1173404	1995972	100.00%	17.497%
13	10.511	1434	1442	1447	rBV2	10647	22552	1.13%	0.198%
14	11.414	1582	1590	1603	rBV	1092217	1802359	90.30%	15.799%
15	12.401	1742	1752	1762	rBV2	920227	1499577	75.13%	13.145%
16	13.340	1900	1906	1917	rVB	1006628	1524048	76.36%	13.360%
17	13.883	1987	1995	2001	rBV2	188621	307789	15.42%	2.698%
18	14.529	2091	2101	2109	rBV3	21300	66228	3.32%	0.581%
19	16.364	2394	2402	2409	rBV8	7113	20015	1.00%	0.175%

Sum of corrected areas: 11407753

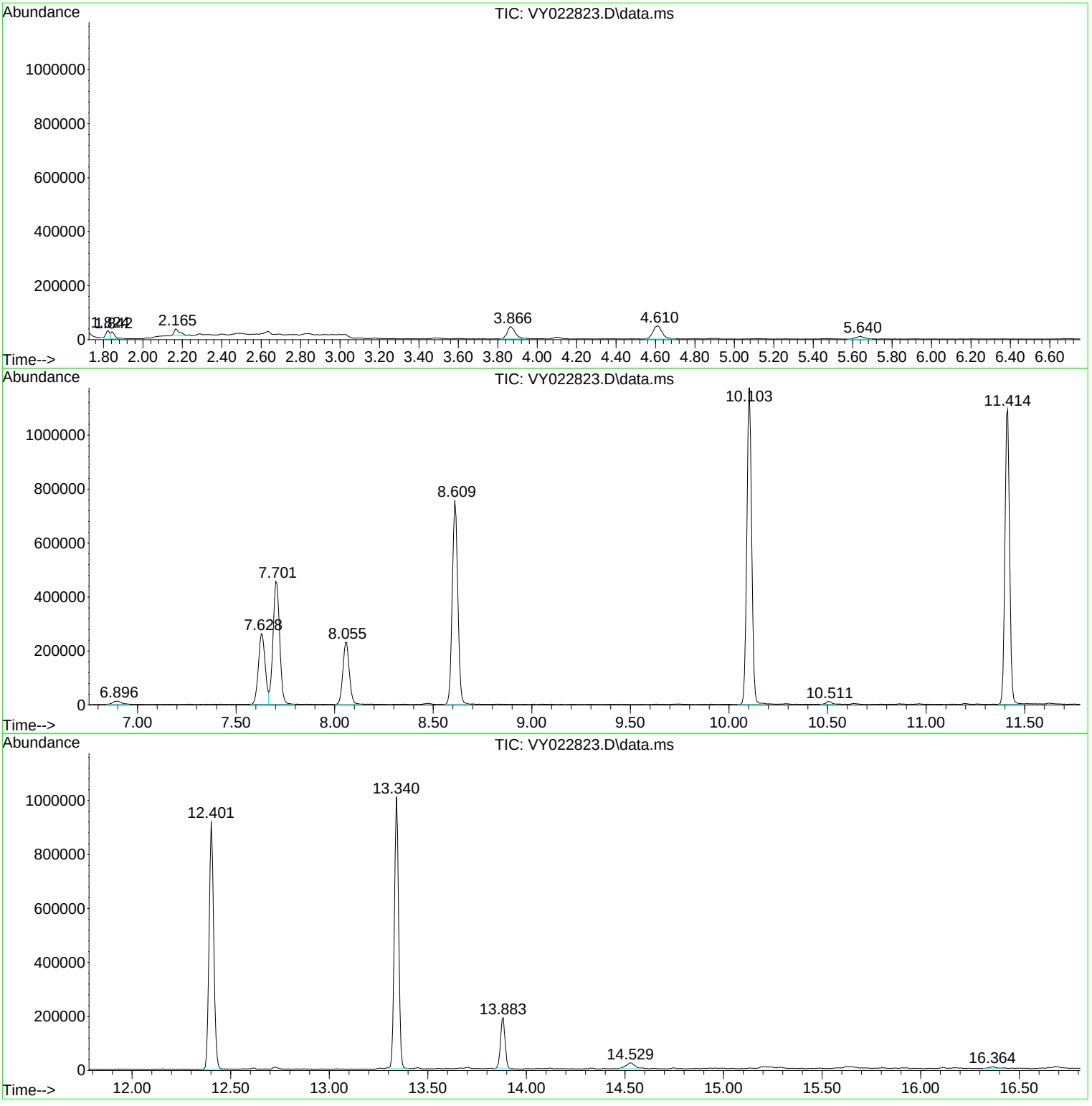
Sample Results: **VY022823.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022823.D
Acq On : 25 Jun 2025 14:32
Operator : SY/MD
Sample : Q2413-05
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

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: **VY022823.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022823.D
Acq On : 25 Jun 2025 14:32
Operator : SY/MD
Sample : Q2413-05
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

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\VY062525\
Data File : VY022823.D
Acq On : 25 Jun 2025 14:32
Operator : SY/MD
Sample : Q2413-05
Misc : 6.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-73

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: **VY022845.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:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-72	SDG No.:	Q2413
Lab Sample ID:	Q2413-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87
Sample Wt/Vol:	6.53 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
VY022845.D	1		06/26/25 13:20	VY062625

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	0.94	U	0.94	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	0.93	U	0.93	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	22.0	ug/Kg
75-15-0	Carbon Disulfide	0.93	U	0.93	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.64	U	0.64	4.40	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.40	ug/Kg
75-09-2	Methylene Chloride	6.20	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	0.70	U	0.70	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	22.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.85	U	0.85	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	13.8		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	0.71	U	0.71	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	22.0	ug/Kg
108-88-3	Toluene	0.69	U	0.69	4.40	ug/Kg

Raw Data: **VY022845.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:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-72	SDG No.:	Q2413
Lab Sample ID:	Q2413-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87
Sample Wt/Vol:	6.53 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
VY022845.D	1		06/26/25 13:20	VY062625

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	3.20	U	3.20	22.0	ug/Kg
124-48-1	Dibromochloromethane	0.77	U	0.77	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.77	U	0.77	4.40	ug/Kg
127-18-4	Tetrachloroethene	0.92	U	0.92	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	3.40	J	1.10	8.80	ug/Kg
95-47-6	o-Xylene	2.00	J	0.72	4.40	ug/Kg
100-42-5	Styrene	0.62	U	0.62	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	47.8		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	56.9		74 - 123	114%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.8		17 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	314000	7.713			
540-36-3	1,4-Difluorobenzene	567000	8.615			
3114-55-4	Chlorobenzene-d5	546000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	218000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022845.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:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-72	SDG No.:	Q2413
Lab Sample ID:	Q2413-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87
Sample Wt/Vol:	6.53 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
VY022845.D	1		06/26/25 13:20	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000589-81-1	Heptane, 3-methyl-	21.4	J		9.89	ug/Kg
000111-65-9	Octane	37.8	J		10.3	ug/Kg
006876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	29.5	J		10.5	ug/Kg
002207-03-6	Cyclohexane, 1,3-dimethyl-, trans-	45.0	J		10.5	ug/Kg
001839-63-0	Cyclohexane, 1,3,5-trimethyl-	21.6	J		10.9	ug/Kg
002207-01-4	Cyclohexane, 1,2-dimethyl-, cis-	22.6	J		10.9	ug/Kg
001678-91-7	Cyclohexane, ethyl-	33.7	J		11.0	ug/Kg
003073-66-3	Cyclohexane, 1,1,3-trimethyl-	21.8	J		11.0	ug/Kg
001670-46-8	2-Acetylcyclopentanone	66.8	J		11.2	ug/Kg
002216-33-3	Octane, 3-methyl-	22.7	J		11.3	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.10	J		13.0	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\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

Quant Time: Jun 27 01:27:35 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

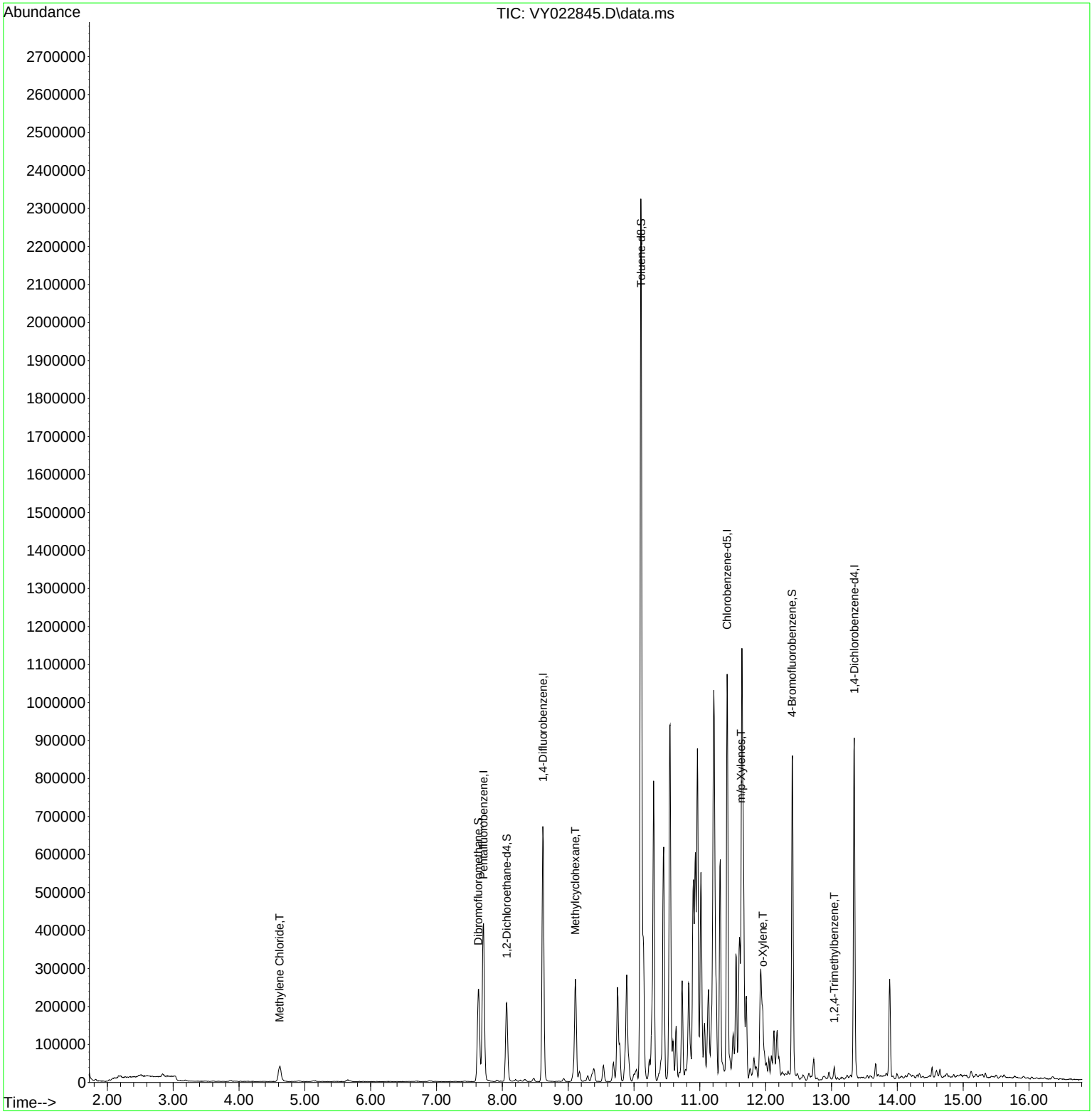
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	313811	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	566645	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	546225	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	218308	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	167448	47.809	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 95.620%			
35) Dibromofluoromethane	7.634	113	173987	50.489	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.980%			
50) Toluene-d8	10.109	98	778733	56.948	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 113.900%			
62) 4-Bromofluorobenzene	12.401	95	236495	53.799	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 107.600%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	29475	7.050	ug/l	89
39) Methylcyclohexane	9.109	83	106071	15.692	ug/l	96
68) m/p-Xylenes	11.627	106	31440	3.857	ug/l	90
69) o-Xylene	11.956	106	17793	2.316	ug/l	90
84) 1,2,4-Trimethylbenzene	13.041	105	15894	1.218	ug/l	97

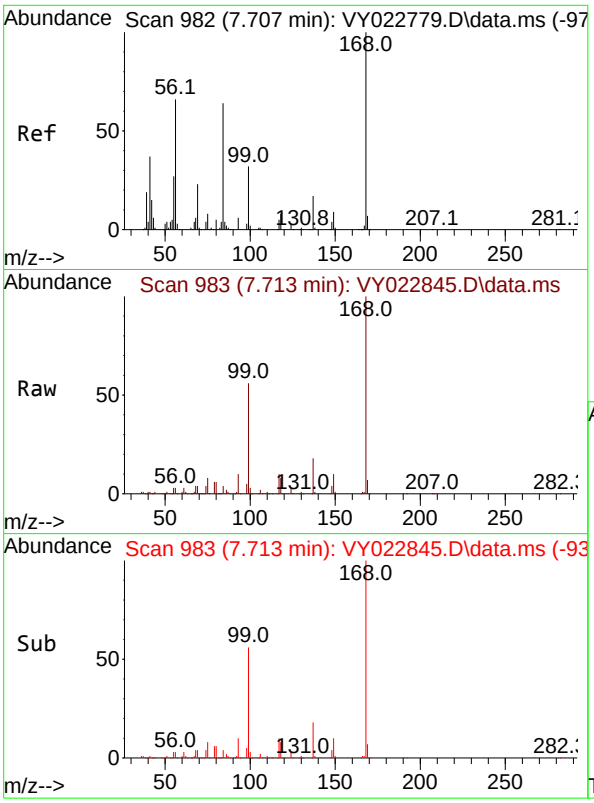
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

Quant Time: Jun 27 01:27:35 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



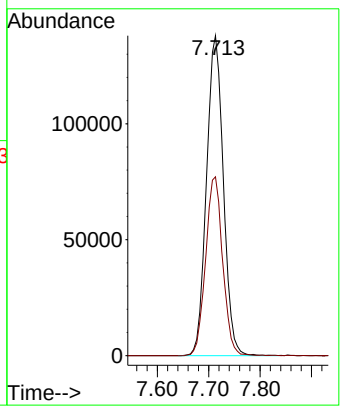


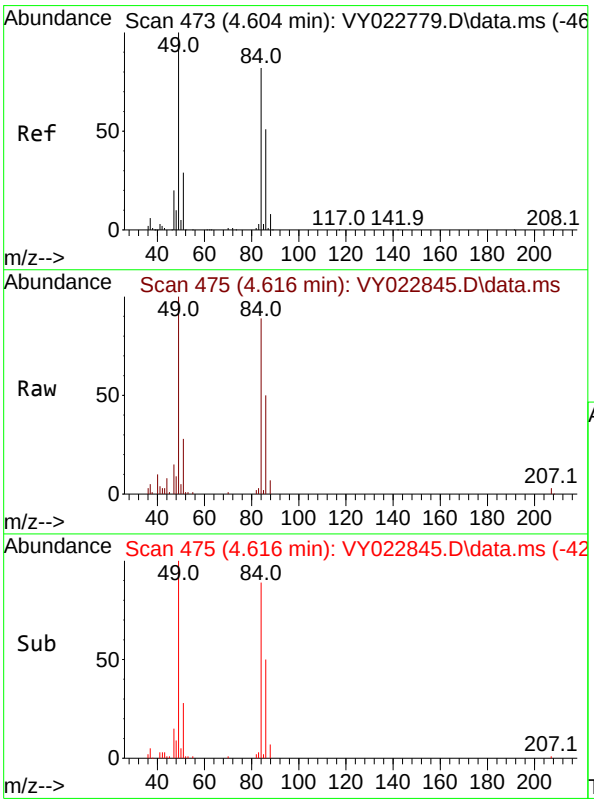
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

Tgt Ion:168 Resp: 313811

Ion	Ratio	Lower	Upper
168	100		
99	55.9	44.3	66.5

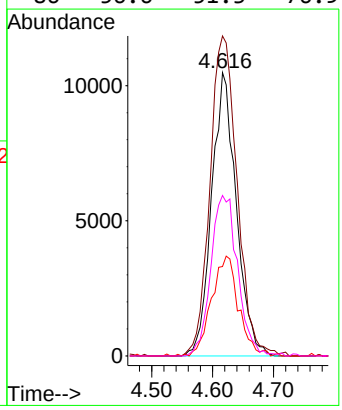


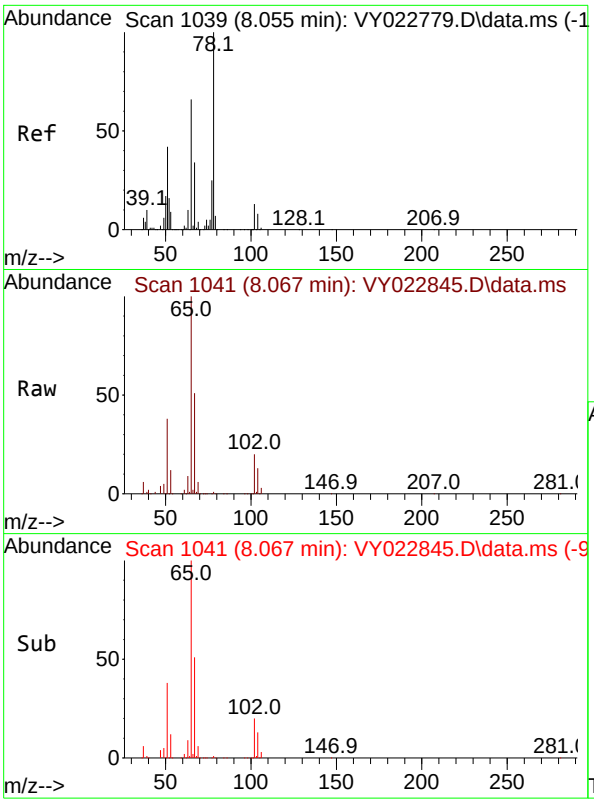


#20
Methylene Chloride
Concen: 7.050 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion: 84 Resp: 29475

Ion	Ratio	Lower	Upper
84	100		
49	112.9	101.9	152.9
51	31.0	29.8	44.8
86	56.6	51.3	76.9



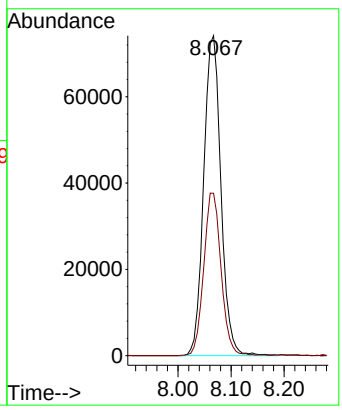


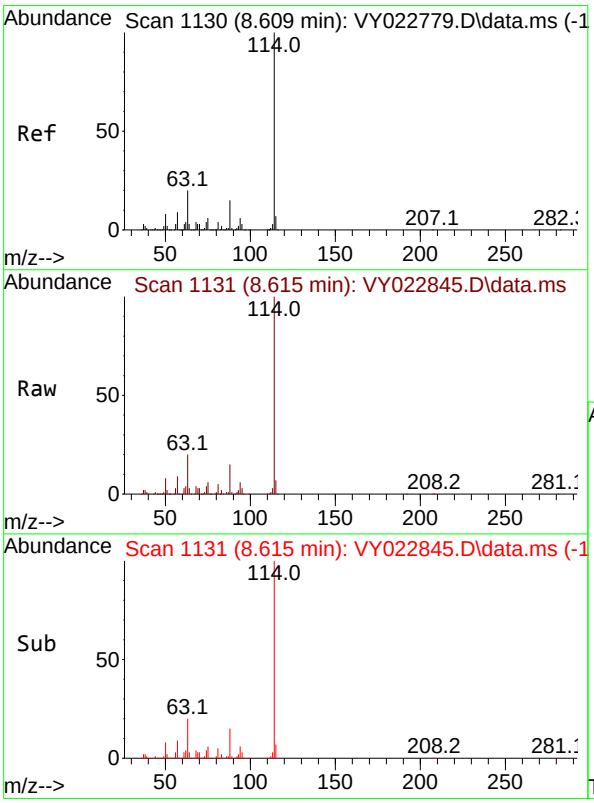
#33
1,2-Dichloroethane-d4
Concen: 47.809 ug/l
RT: 8.067 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

Tgt Ion: 65 Resp: 167448

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	103.4

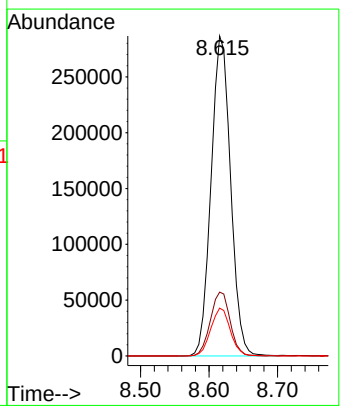


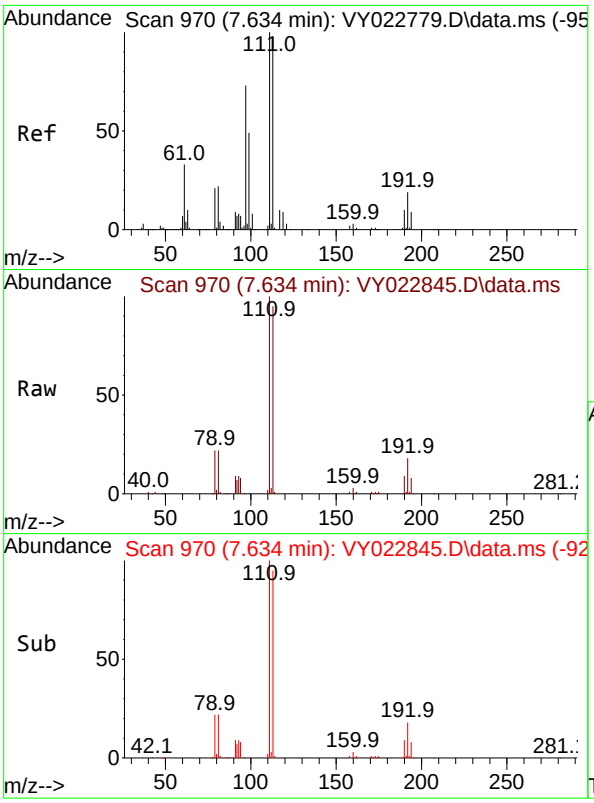


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion:114 Resp: 566645

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.8
88	14.9	0.0	27.8



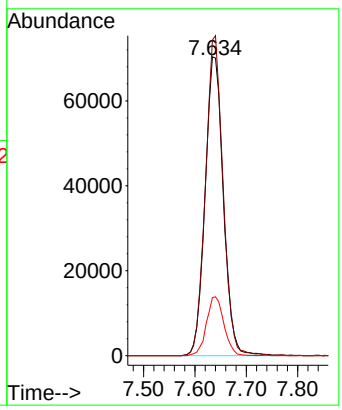


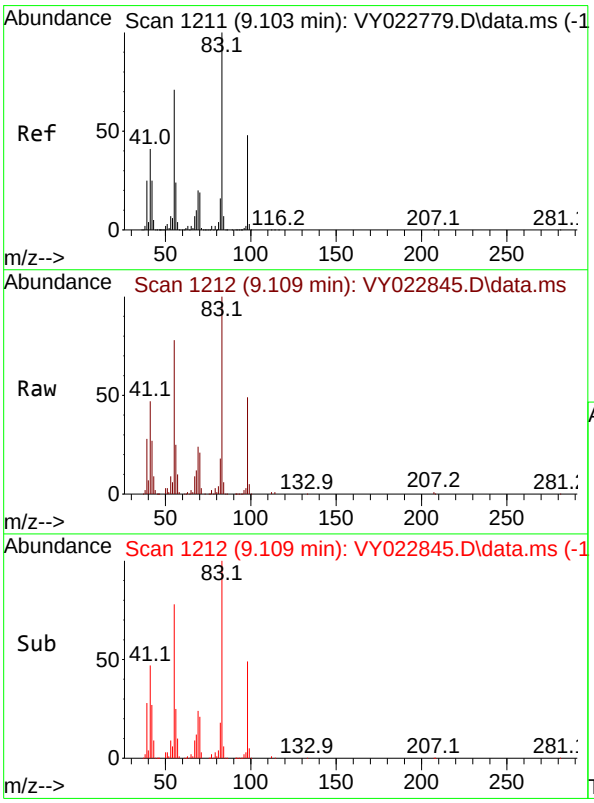
#35
Dibromofluoromethane
Concen: 50.489 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

Tgt Ion:113 Resp: 173987

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.1	121.7
192	18.9	14.2	21.2

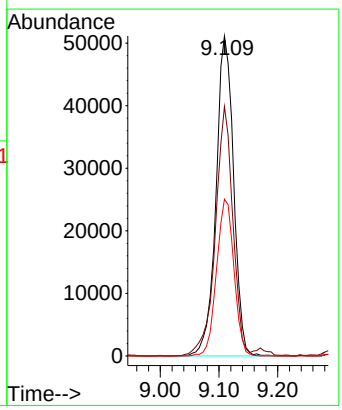


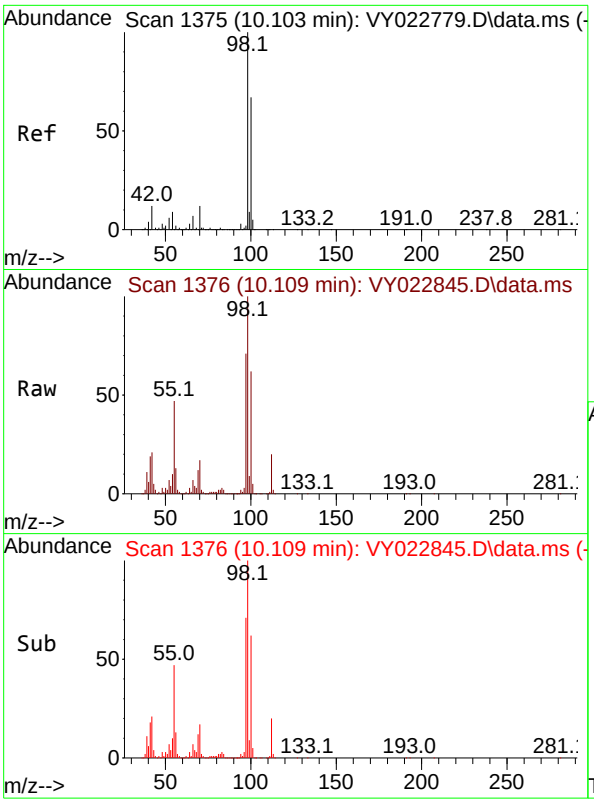


#39
Methylcyclohexane
Concen: 15.692 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion: 83 Resp: 106071

Ion	Ratio	Lower	Upper
83	100		
55	77.8	58.1	87.1
98	49.0	39.0	58.6



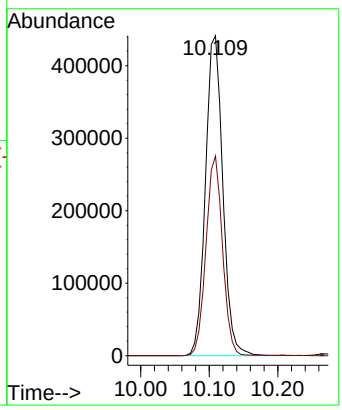


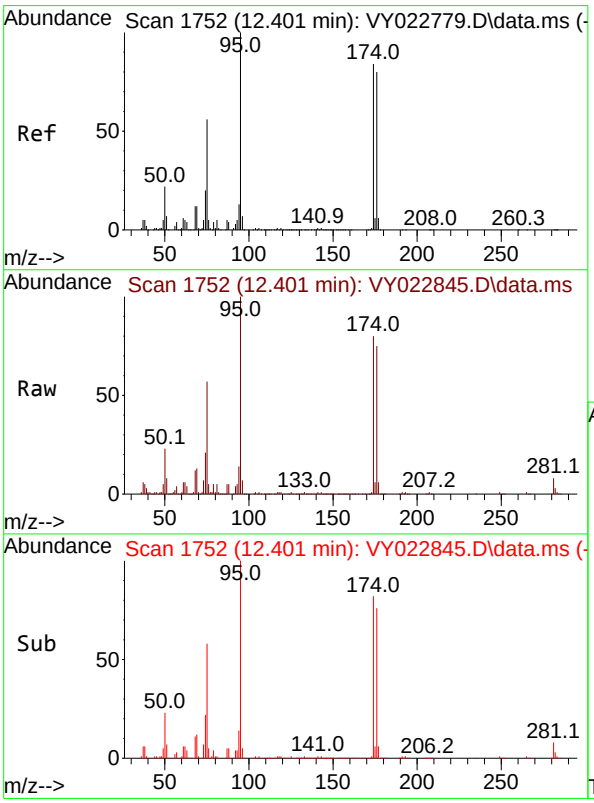
#50
Toluene-d8
Concen: 56.948 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

Tgt Ion: 98 Resp: 778733

Ion	Ratio	Lower	Upper
98	100		
100	59.5	51.4	77.0

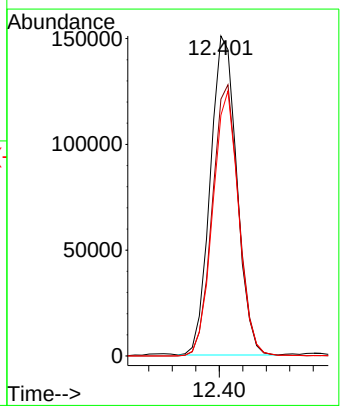


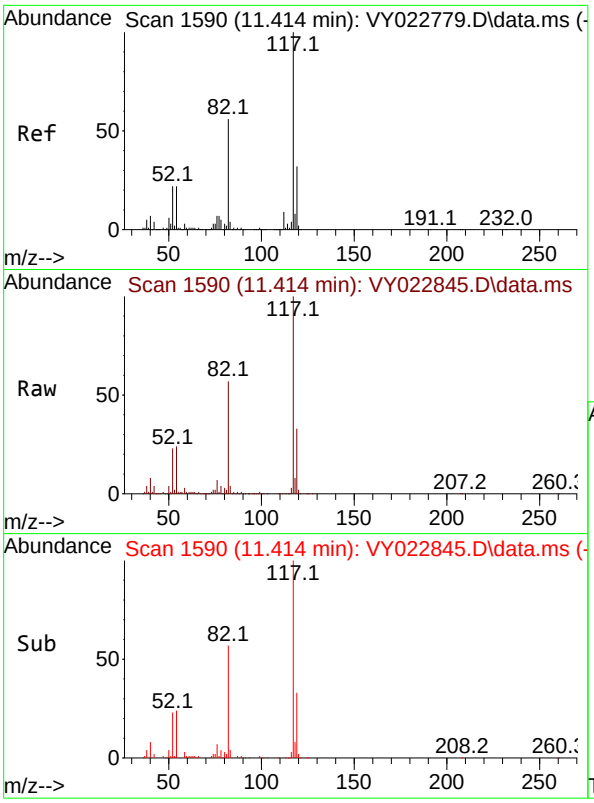


#62
4-Bromofluorobenzene
Concen: 53.799 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion: 95 Resp: 236495

Ion	Ratio	Lower	Upper
95	100		
174	84.8	0.0	170.0
176	81.5	0.0	166.2



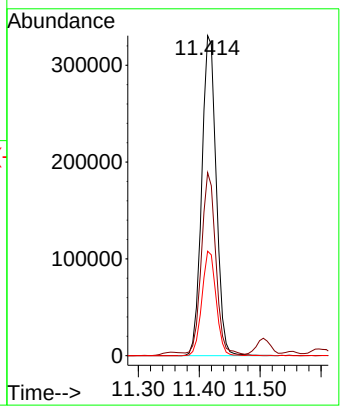


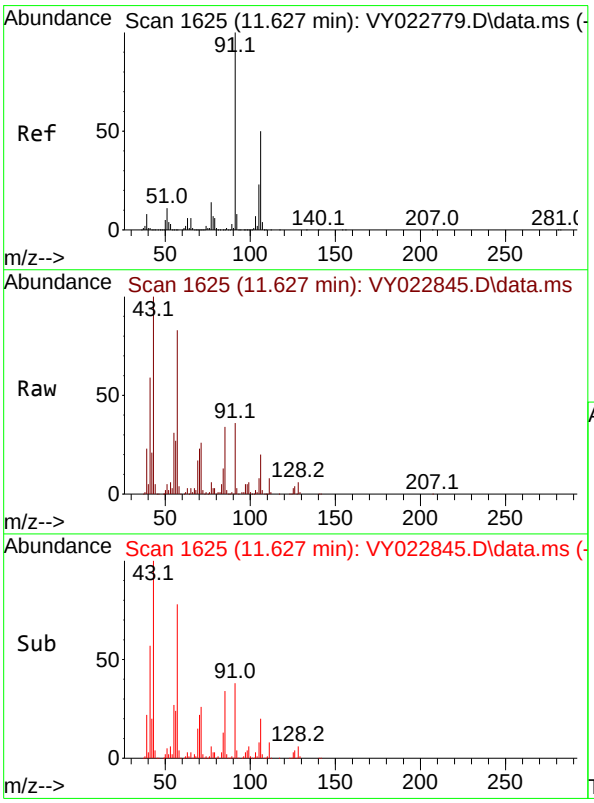
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

Tgt Ion:117 Resp: 546225

Ion	Ratio	Lower	Upper
117	100		
82	56.5	44.6	66.8
119	32.7	25.4	38.0

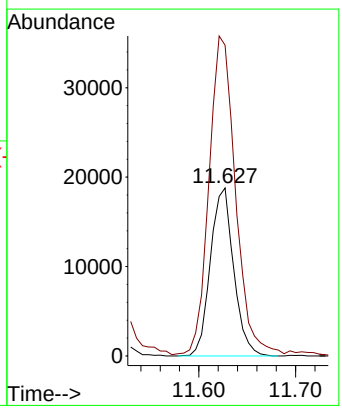


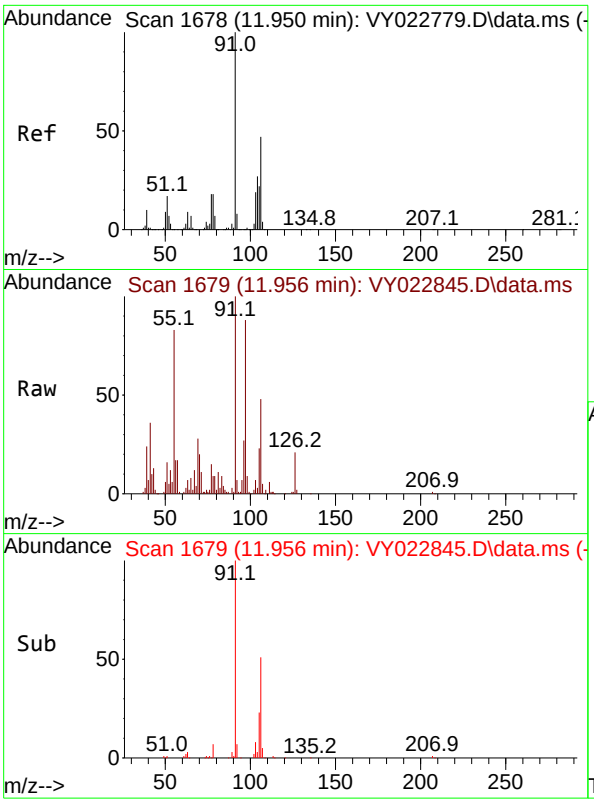


#68
m/p-Xylenes
Concen: 3.857 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.006 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion:106 Resp: 31440

Ion	Ratio	Lower	Upper
106	100		
91	214.8	159.4	239.0



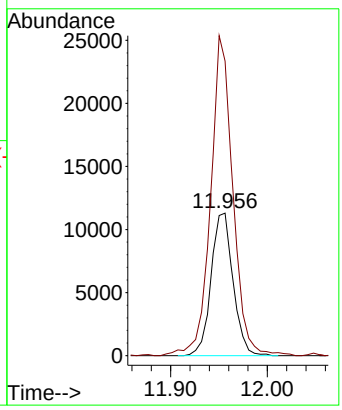


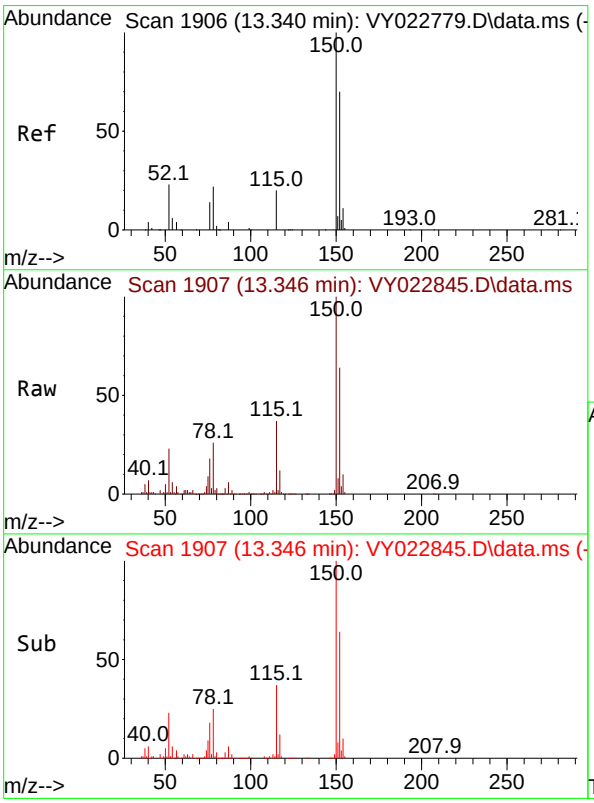
#69
o-Xylene
Concen: 2.316 ug/l
RT: 11.956 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

Tgt Ion:106 Resp: 17793

Ion	Ratio	Lower	Upper
106	100		
91	227.7	105.8	317.3

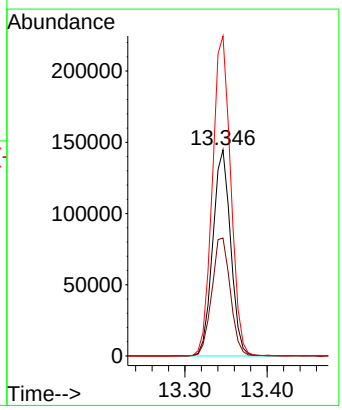


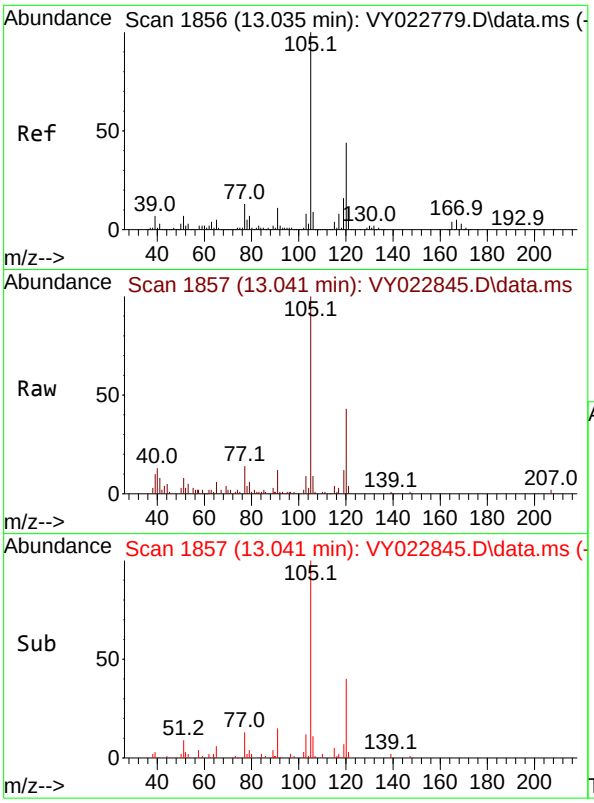


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Tgt Ion:152 Resp: 218308

Ion	Ratio	Lower	Upper
152	100		
115	59.3	28.9	86.7
150	159.2	0.0	349.6



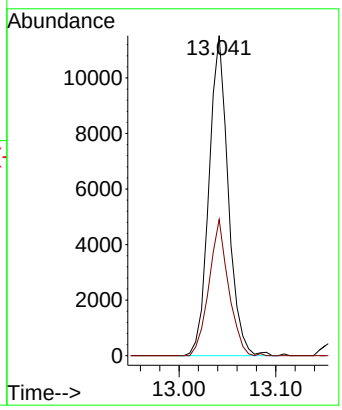


#84
1,2,4-Trimethylbenzene
Concen: 1.218 ug/l
RT: 13.041 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022845.D
Acq: 26 Jun 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

Tgt Ion:105 Resp: 15894

Ion	Ratio	Lower	Upper
105	100		
120	43.2	22.7	68.1



Sample Results: **VY022845.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

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: VY022845.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	462	476	489	rBV2	40915	130610	2.79%	0.380%
2	7.640	959	971	976	rBV	242733	585325	12.51%	1.701%
3	7.713	976	983	993	rVB	412811	957239	20.46%	2.782%
4	8.067	1032	1041	1054	rVB	206621	464132	9.92%	1.349%
5	8.615	1122	1131	1146	rBV	672212	1339907	28.63%	3.894%
6	9.109	1195	1212	1219	rBV	270185	590567	12.62%	1.716%
7	9.390	1248	1258	1265	rVB3	33746	97373	2.08%	0.283%
8	9.536	1275	1282	1290	rBV2	42650	83414	1.78%	0.242%
9	9.688	1298	1307	1311	rBV	50074	97581	2.09%	0.284%
10	9.749	1311	1317	1321	rBV	237410	434129	9.28%	1.262%
11	9.890	1329	1340	1352	rVB	279577	653117	13.96%	1.898%
12	10.036	1360	1364	1368	rVV2	26830	52462	1.12%	0.152%
13	10.103	1368	1375	1390	rVB	2317247	4679479	100.00%	13.599%
14	10.231	1390	1396	1398	rBV2	50729	76667	1.64%	0.223%
15	10.298	1398	1407	1414	rVB2	788663	1483435	31.70%	4.311%
16	10.450	1421	1432	1439	rVB	610551	1160283	24.80%	3.372%
17	10.548	1439	1448	1453	rBV	932262	1769612	37.82%	5.143%
18	10.591	1453	1455	1459	rVV	92402	128775	2.75%	0.374%
19	10.639	1459	1463	1468	rVB2	134143	206169	4.41%	0.599%
20	10.731	1472	1478	1483	rVB2	247914	393997	8.42%	1.145%
21	10.828	1488	1494	1501	rBV	230191	452914	9.68%	1.316%
22	10.902	1501	1506	1508	rVV	495313	850128	18.17%	2.471%
23	10.932	1508	1511	1513	rVV	565452	888041	18.98%	2.581%
24	10.963	1513	1516	1521	rVV	837894	1324710	28.31%	3.850%
25	11.017	1521	1525	1530	rVV	510142	858113	18.34%	2.494%
26	11.072	1530	1534	1538	rVB	114066	161315	3.45%	0.469%
27	11.133	1538	1544	1548	rBV3	203295	383843	8.20%	1.115%
28	11.213	1548	1557	1567	rVB3	1007565	2623827	56.07%	7.625%
29	11.310	1567	1573	1578	rBV	561393	891743	19.06%	2.591%
30	11.414	1584	1590	1600	rBV	1044359	1728798	36.94%	5.024%
31	11.505	1600	1605	1608	rVV3	95515	167610	3.58%	0.487%
32	11.548	1608	1612	1616	rVV	304459	483615	10.33%	1.405%
33	11.603	1616	1621	1623	rVV	346412	616363	13.17%	1.791%
34	11.639	1623	1627	1635	rVV2	1105516	2511513	53.67%	7.299%
35	11.706	1635	1638	1643	rVB	214857	323493	6.91%	0.940%
36	11.822	1651	1657	1660	rBV3	45053	75760	1.62%	0.220%

Sample Results: **VY022845.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

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	11.926	1667	1674	1686	rBV5	285533	921159	19.69%	2.677%
38	12.084	1697	1700	1703	rBV	44668	66756	1.43%	0.194%
39	12.127	1703	1707	1710	rVB	87122	111079	2.37%	0.323%
40	12.176	1710	1715	1718	rBV2	88227	131730	2.82%	0.383%
41	12.407	1747	1753	1762	rVV2	843453	1435157	30.67%	4.171%
42	12.731	1801	1806	1811	rVB2	51780	84882	1.81%	0.247%
43	13.041	1851	1857	1862	rVB	32517	49861	1.07%	0.145%
44	13.346	1900	1907	1917	rVB	895667	1412577	30.19%	4.105%
45	13.669	1954	1960	1964	rBV2	38347	64208	1.37%	0.187%
46	13.883	1989	1995	2001	rVB2	257872	407127	8.70%	1.183%

Sum of corrected areas: 34410595

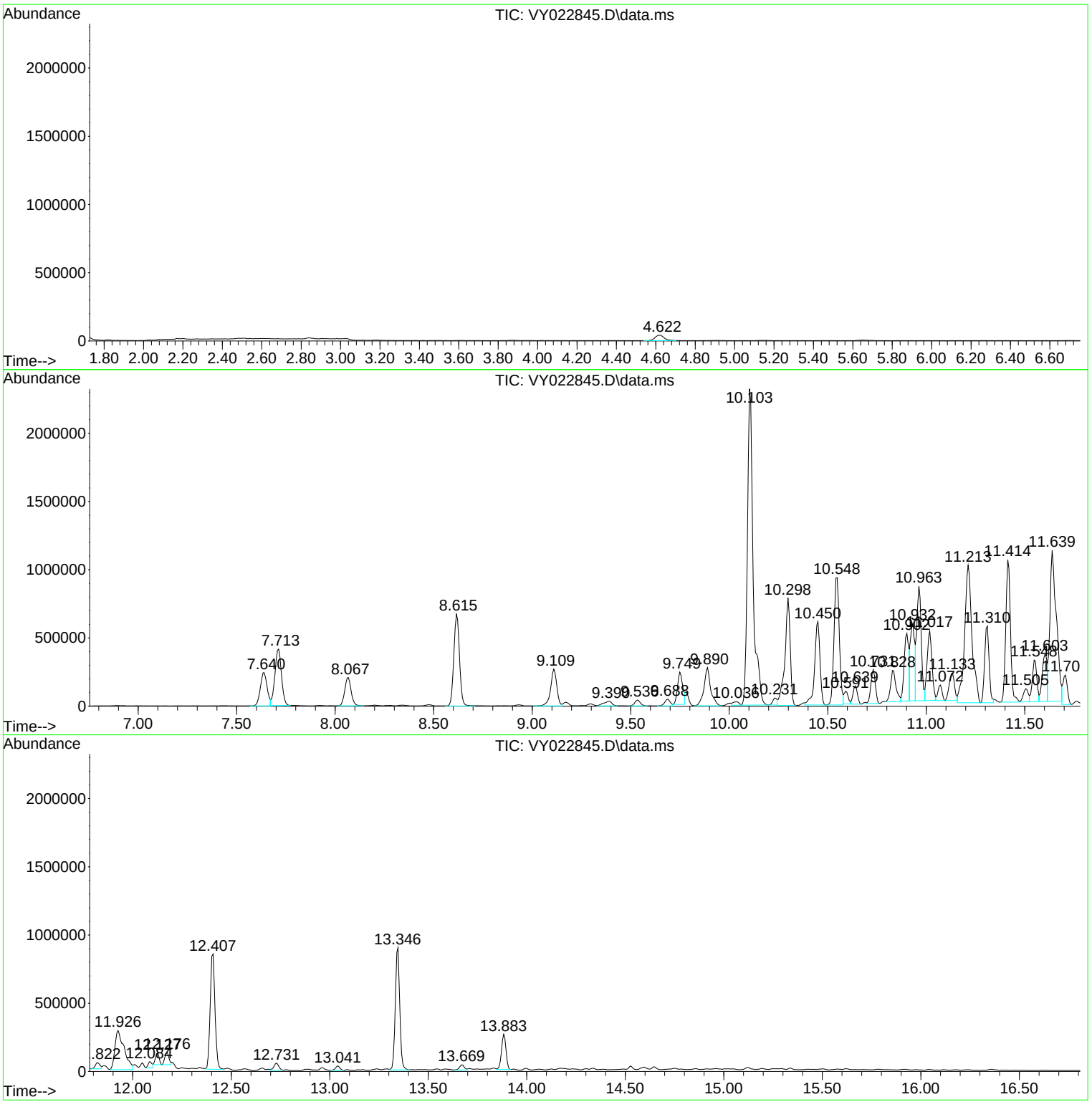
Sample Results: **VY022845.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

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\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

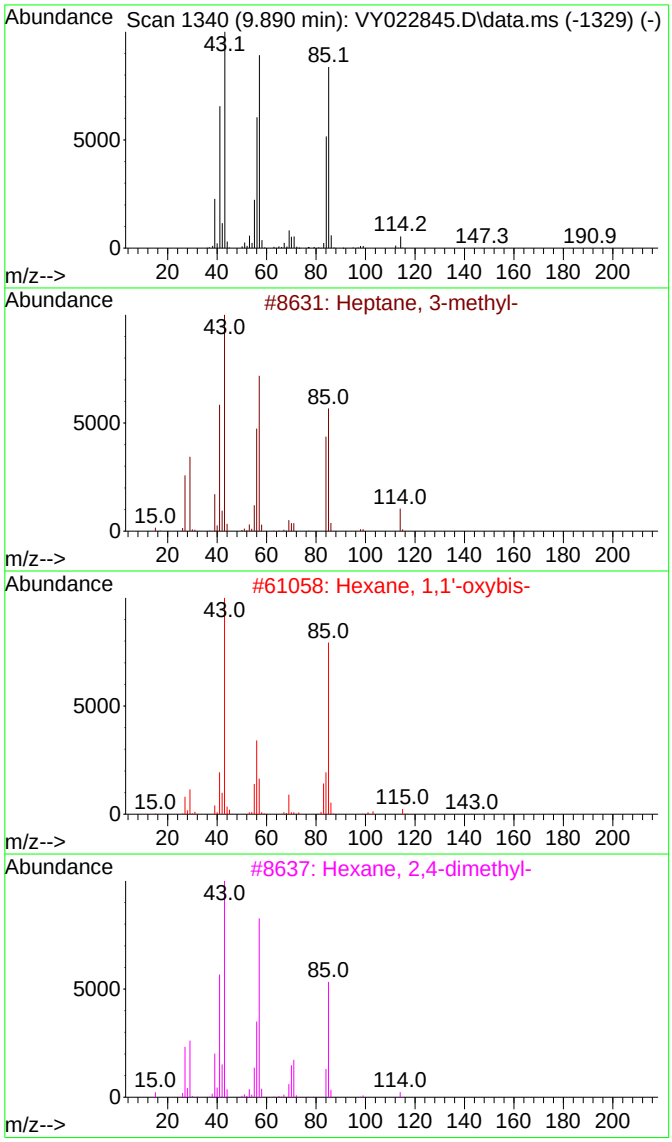
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

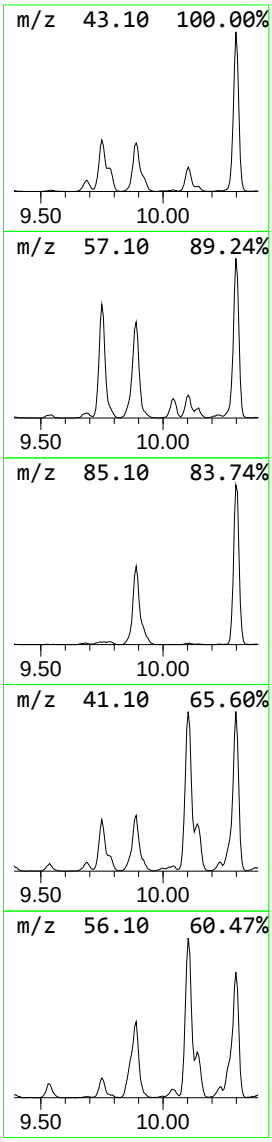
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Heptane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.890	24.37 ug/l	653117	1,4-Difluorobenzene	8.615

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	64
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
4	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	64
5	Oxalic acid, butyl isohexyl ester	230	C12H22O4	1000309-32-7	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

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

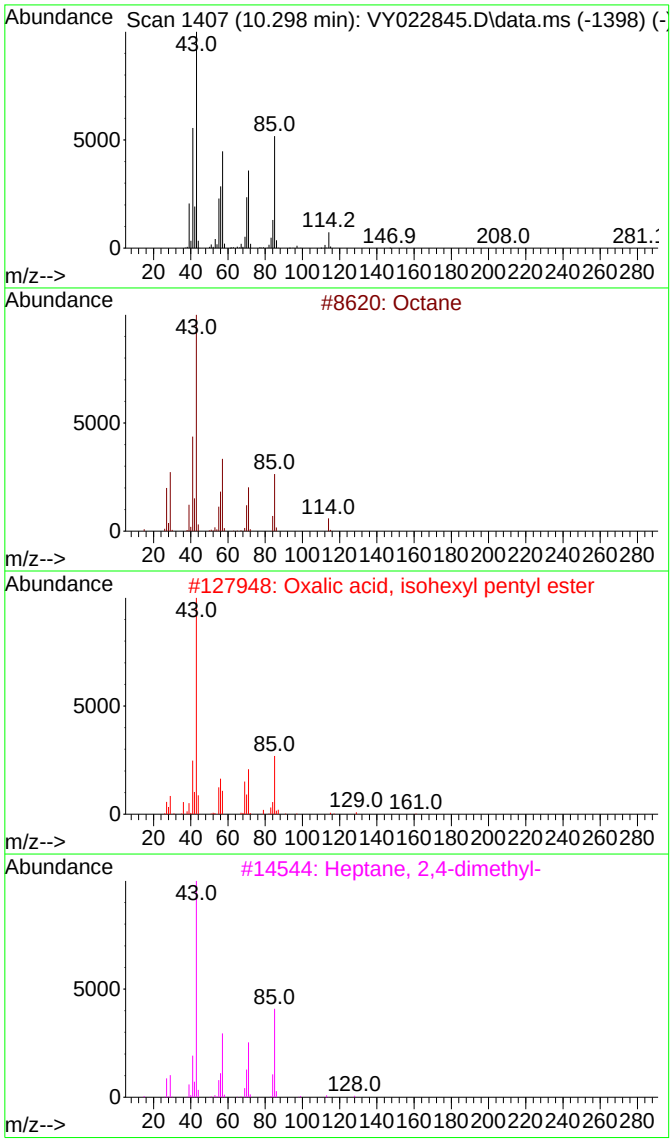
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

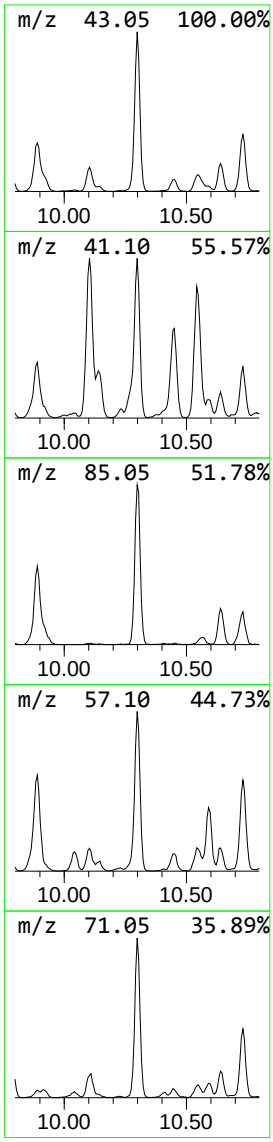
****

Peak Number 2 Octane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.298	42.90 ug/l	1483440	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	91
2	Oxalic acid, isohexyl pentyl ester	244	C13H24O4	1000309-32-8	72
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	72
5	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

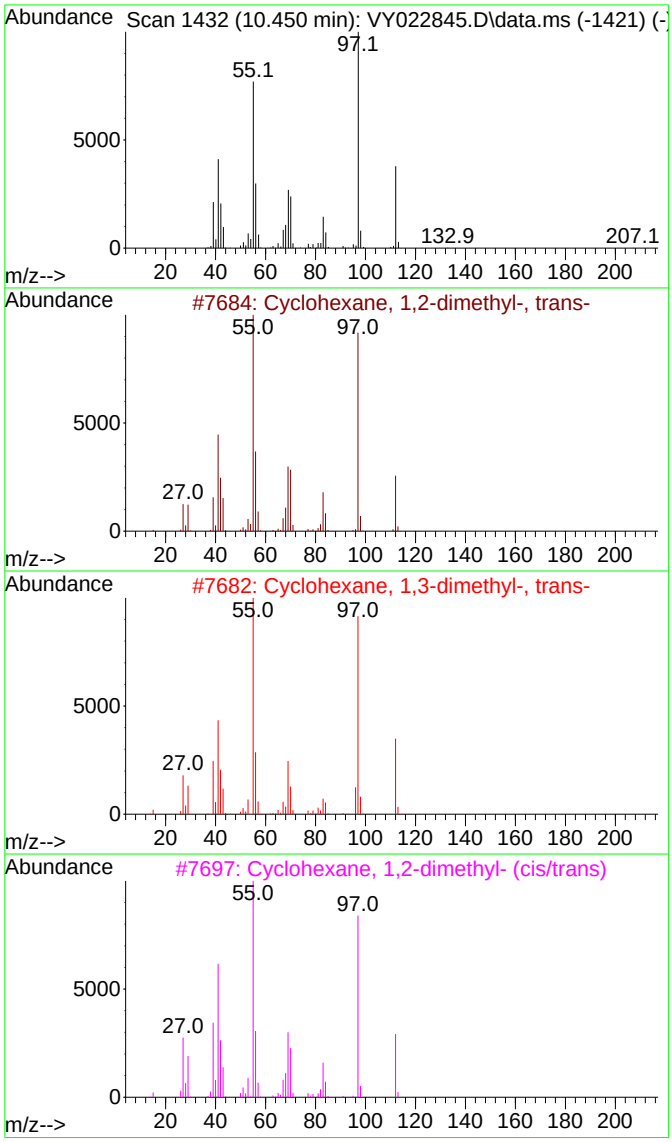
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

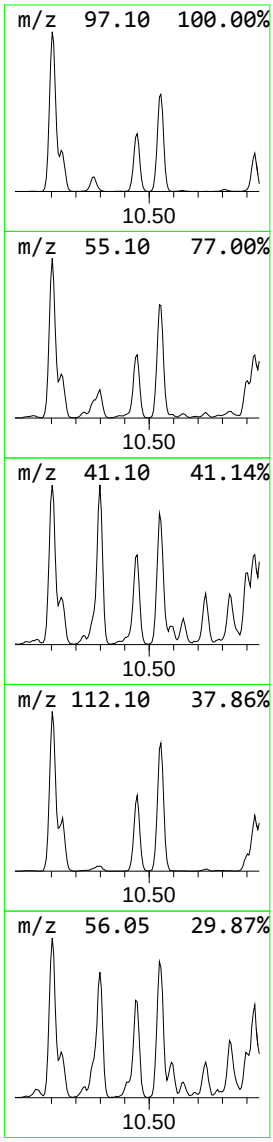
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Cyclohexane, 1,2-dimethyl-,... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.451	33.56 ug/l	1160280	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
3	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	90
4	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	81
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	74





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

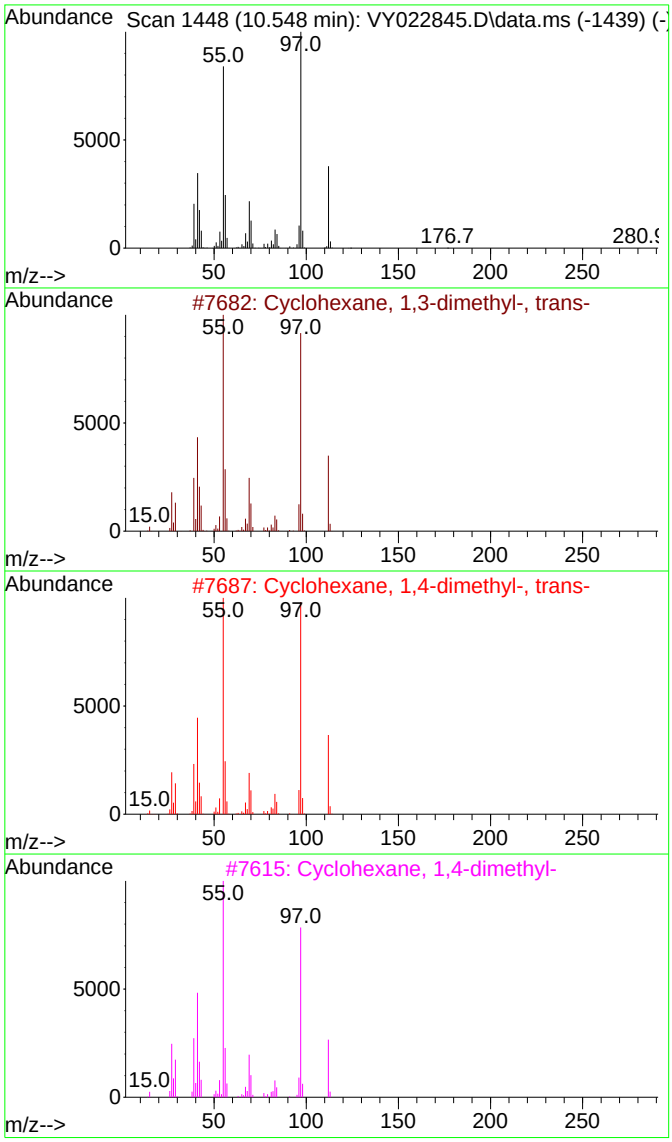
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

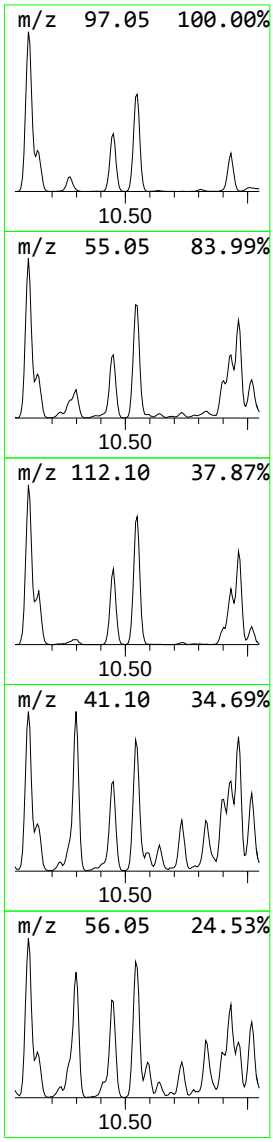
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Cyclohexane, 1,3-dimethyl-,... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.548	51.18 ug/l	1769610	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	96
2	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	96
3	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

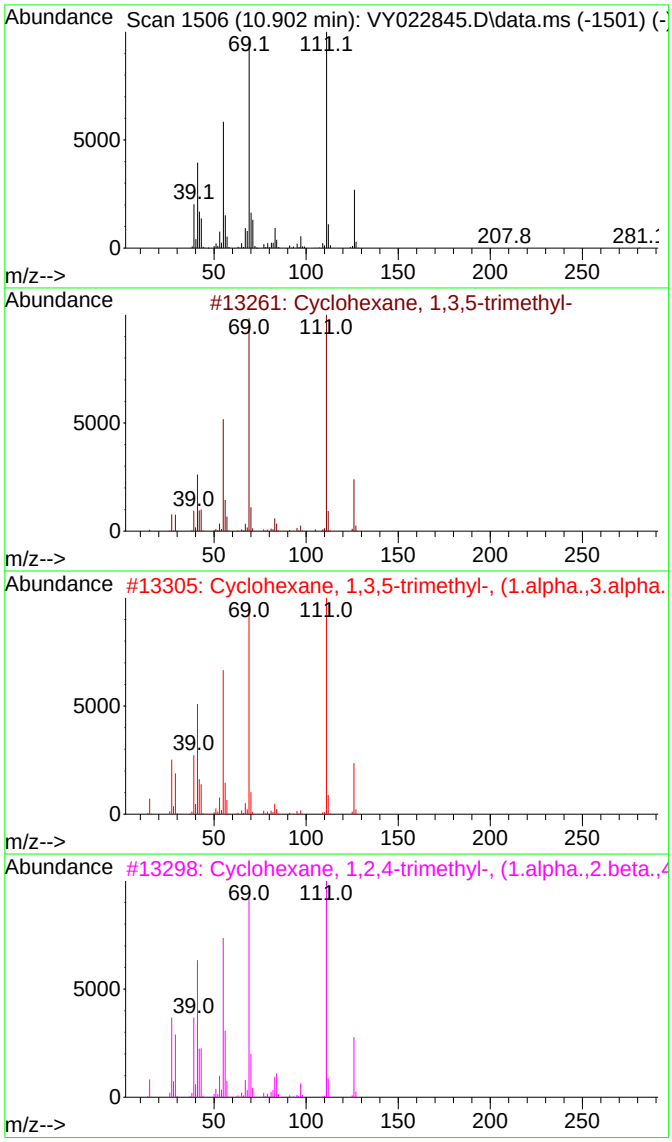
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

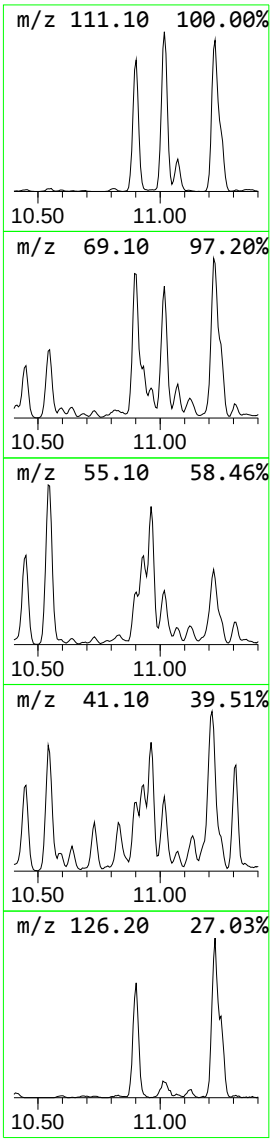
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Cyclohexane, 1,3,5-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.902	24.59 ug/l	850128	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	94
2	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	93
3	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	93
4	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	83
5	3-Octen-2-one	126	C8H14O	001669-44-9	47





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

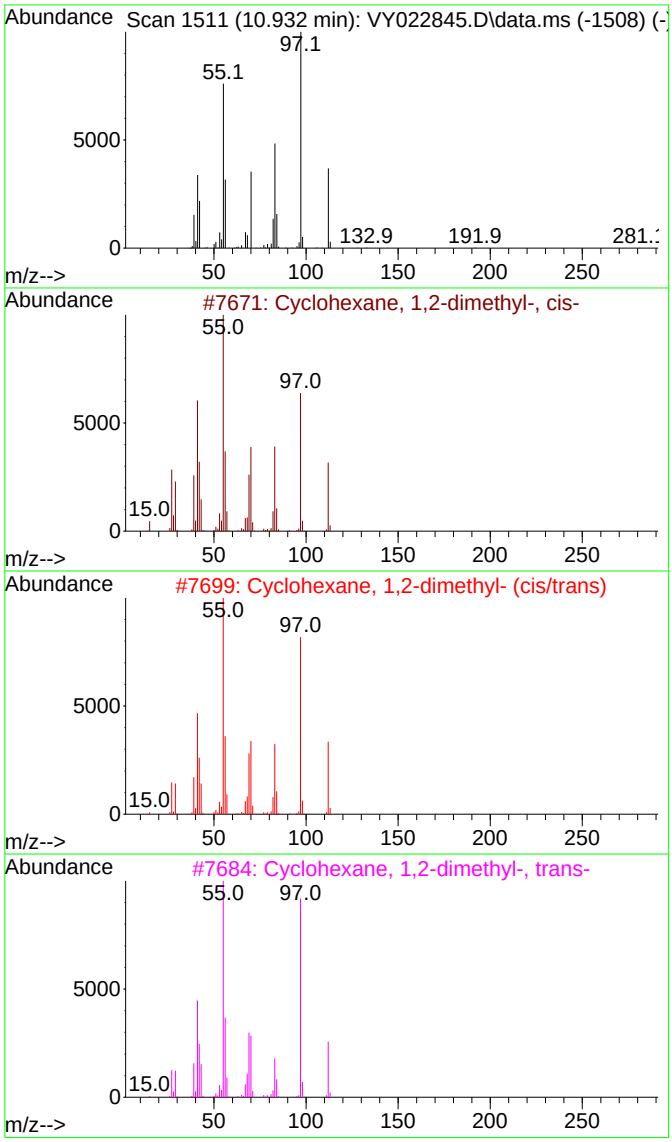
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

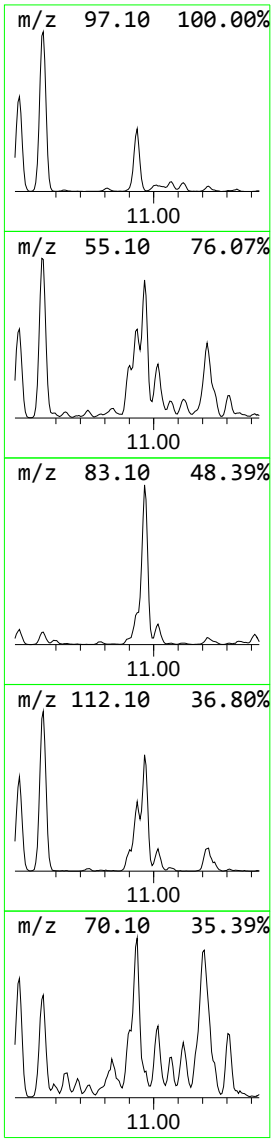
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Cyclohexane, 1,2-dimethyl-,... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.932	25.68 ug/l	888041	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	91
2	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	90
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	72
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	64
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

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

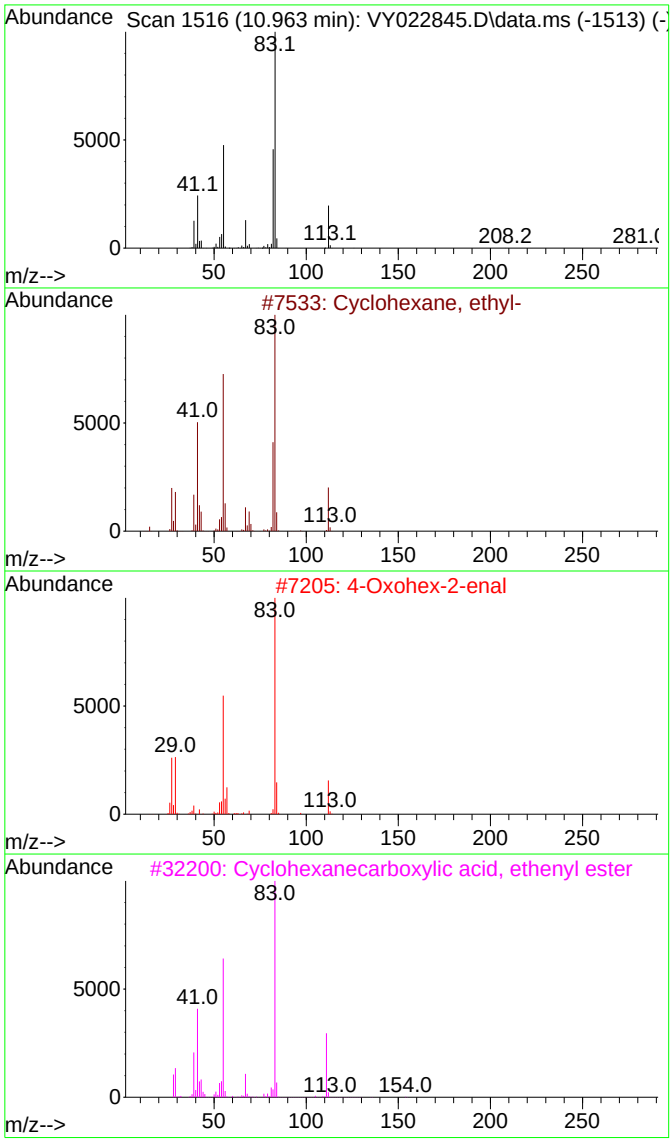
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

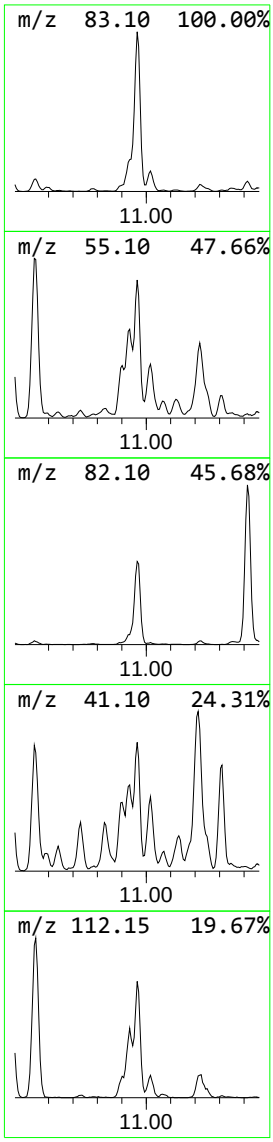
****

Peak Number 7 Cyclohexane, ethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.963	38.31 ug/l	1324710	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	86
2	4-Oxohex-2-enal	112	C6H8O2	020697-55-6	58
3	Cyclohexanecarboxylic acid, ethe...	154	C9H14O2	004840-76-0	50
4	Cyclohexane, bromo-	162	C6H11Br	000108-85-0	50
5	Cyclopropane, 2-bromo-1,1,3-trim...	162	C6H11Br	036617-00-2	47





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

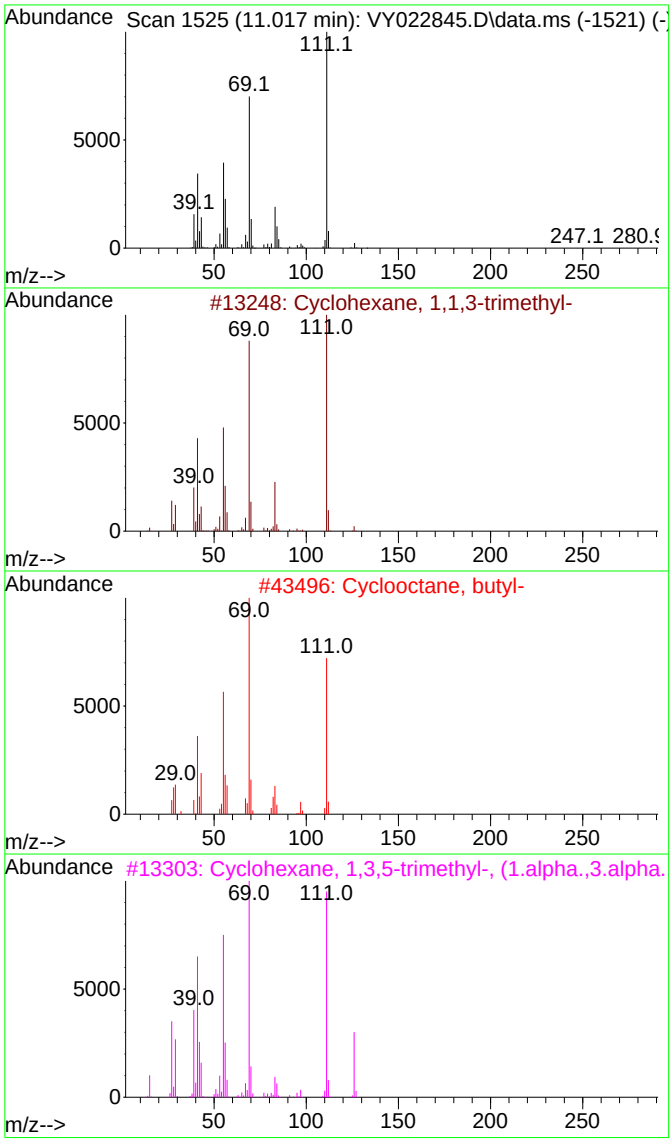
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

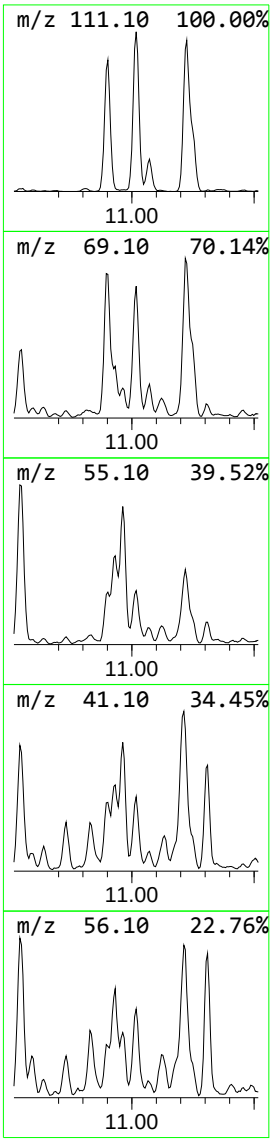
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.017	24.82 ug/l	858113	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	94
2	Cyclooctane, butyl-	168	C12H24	016538-93-5	64
3	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	59
4	Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	53
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

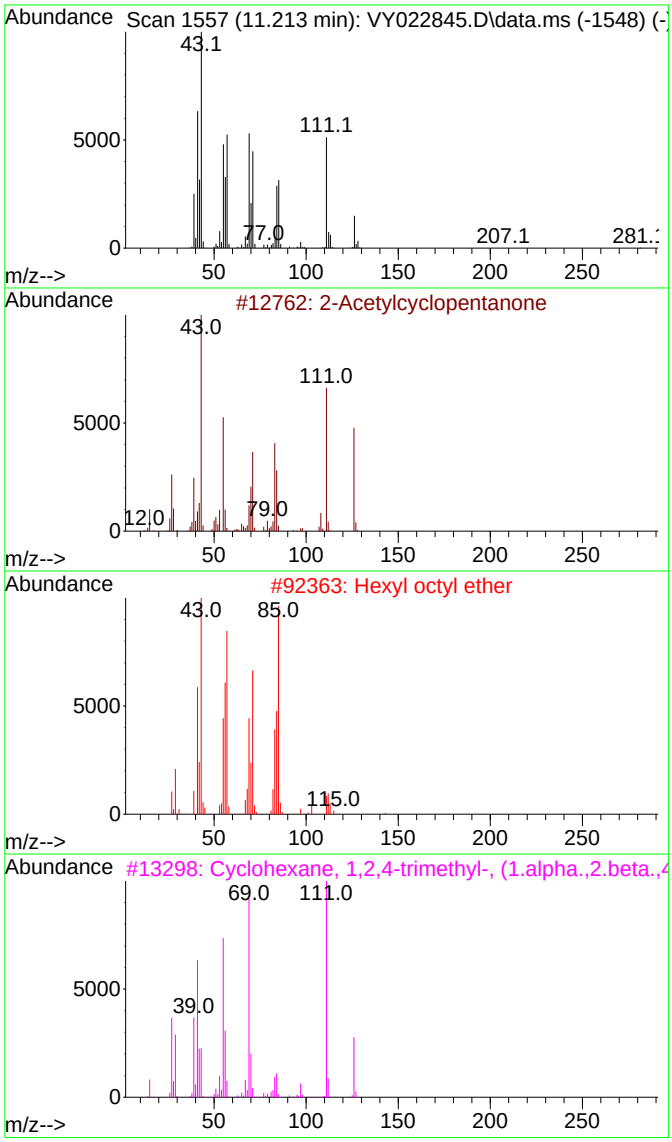
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

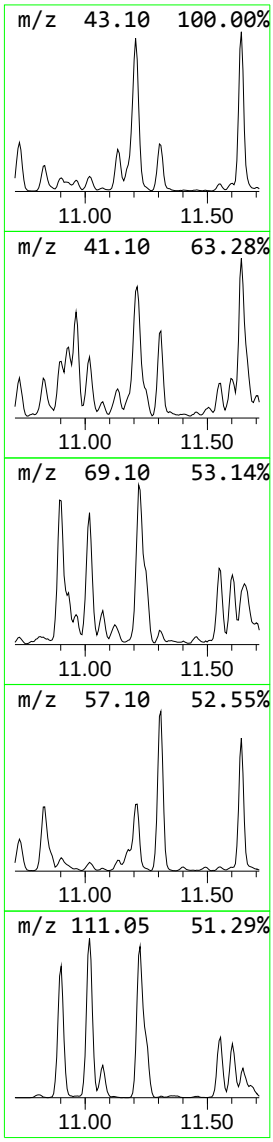
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 2-Acetylcyclopentanone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.213	75.89 ug/l	2623830	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Acetylcyclopentanone	126	C7H10O2	001670-46-8	52
2	Hexyl octyl ether	214	C14H30O	017071-54-4	38
3	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	38
4	Oxazole, trimethyl-	111	C6H9NO	020662-84-4	30
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	30





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

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

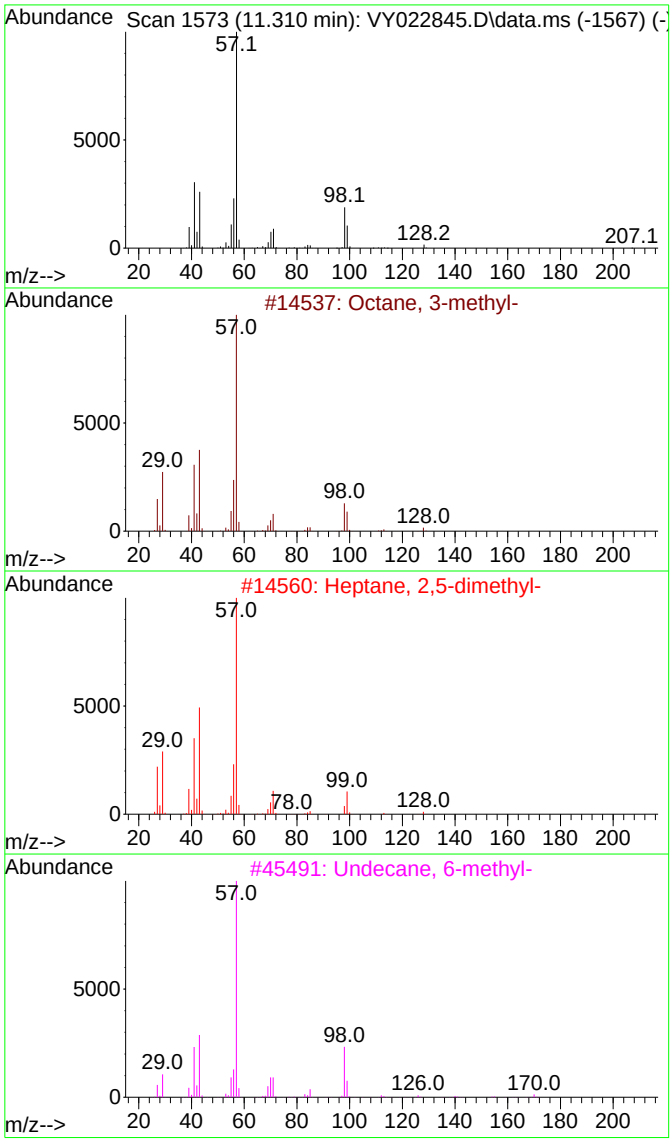
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

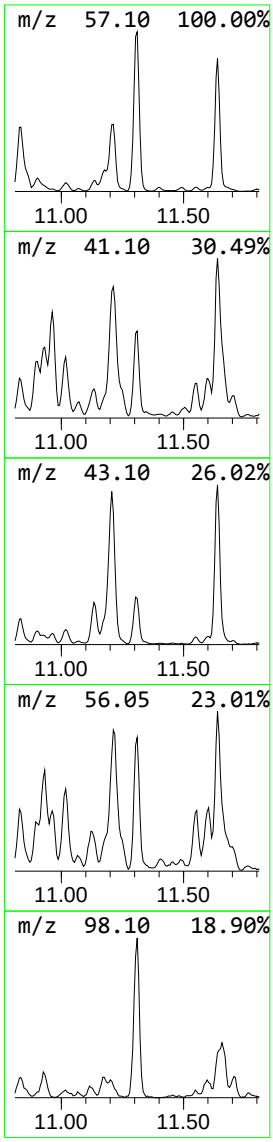
****

Peak Number 10 Octane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.310	25.79 ug/l	891743	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	91
2	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	87
3	Undecane, 6-methyl-	170	C12H26	017302-33-9	59
4	Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	53
5	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022845.D
Acq On : 26 Jun 2025 13:20
Operator : SY/MD
Sample : Q2413-06
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-72

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
Heptane, 3-methyl-	9.890	24.4	ug/l	653117	2	8.615	1339910	50.0
Octane	10.298	42.9	ug/l	1483440	3	11.414	1728800	50.0
Cyclohexane, 1,...	10.451	33.6	ug/l	1160280	3	11.414	1728800	50.0
Cyclohexane, 1,...	10.548	51.2	ug/l	1769610	3	11.414	1728800	50.0
Cyclohexane, 1,...	10.902	24.6	ug/l	850128	3	11.414	1728800	50.0
Cyclohexane, 1,...	10.932	25.7	ug/l	888041	3	11.414	1728800	50.0
Cyclohexane, et...	10.963	38.3	ug/l	1324710	3	11.414	1728800	50.0
Cyclohexane, 1,...	11.017	24.8	ug/l	858113	3	11.414	1728800	50.0
2-Acetylcyclope...	11.213	75.9	ug/l	2623830	3	11.414	1728800	50.0
Octane, 3-methyl-	11.310	25.8	ug/l	891743	3	11.414	1728800	50.0

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.: Q2413 SAS No.: Q2413 SDG No.: Q2413

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

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.: Q2413 SAS No.: Q2413 SDG No.: Q2413

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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

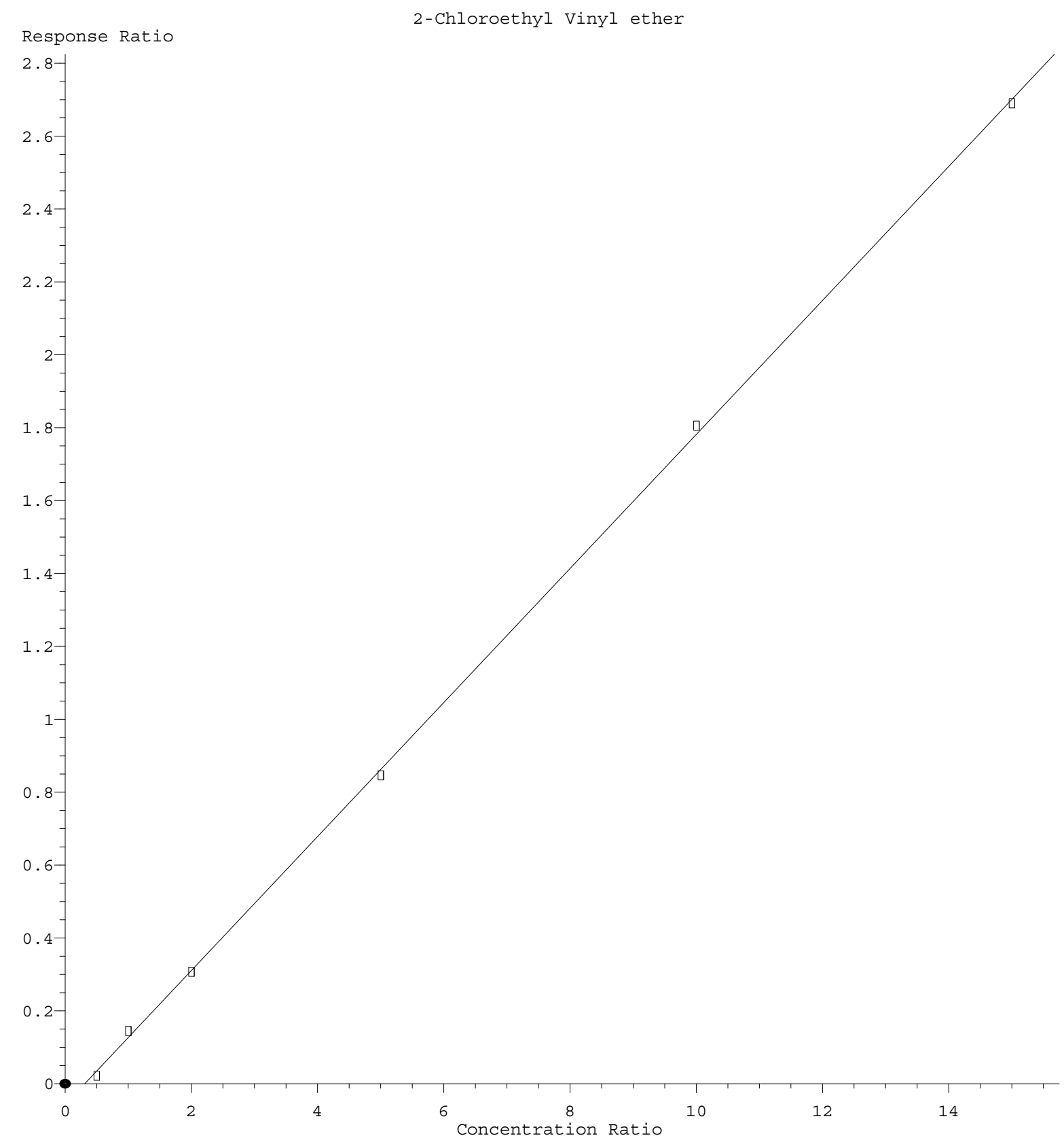
Calibration Files
5 =VY022776.D 10 =VY022777.D 20 =VY022778.D 50 =VY022779.D 100 =VY022780.D 150 =VY022781.D

		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

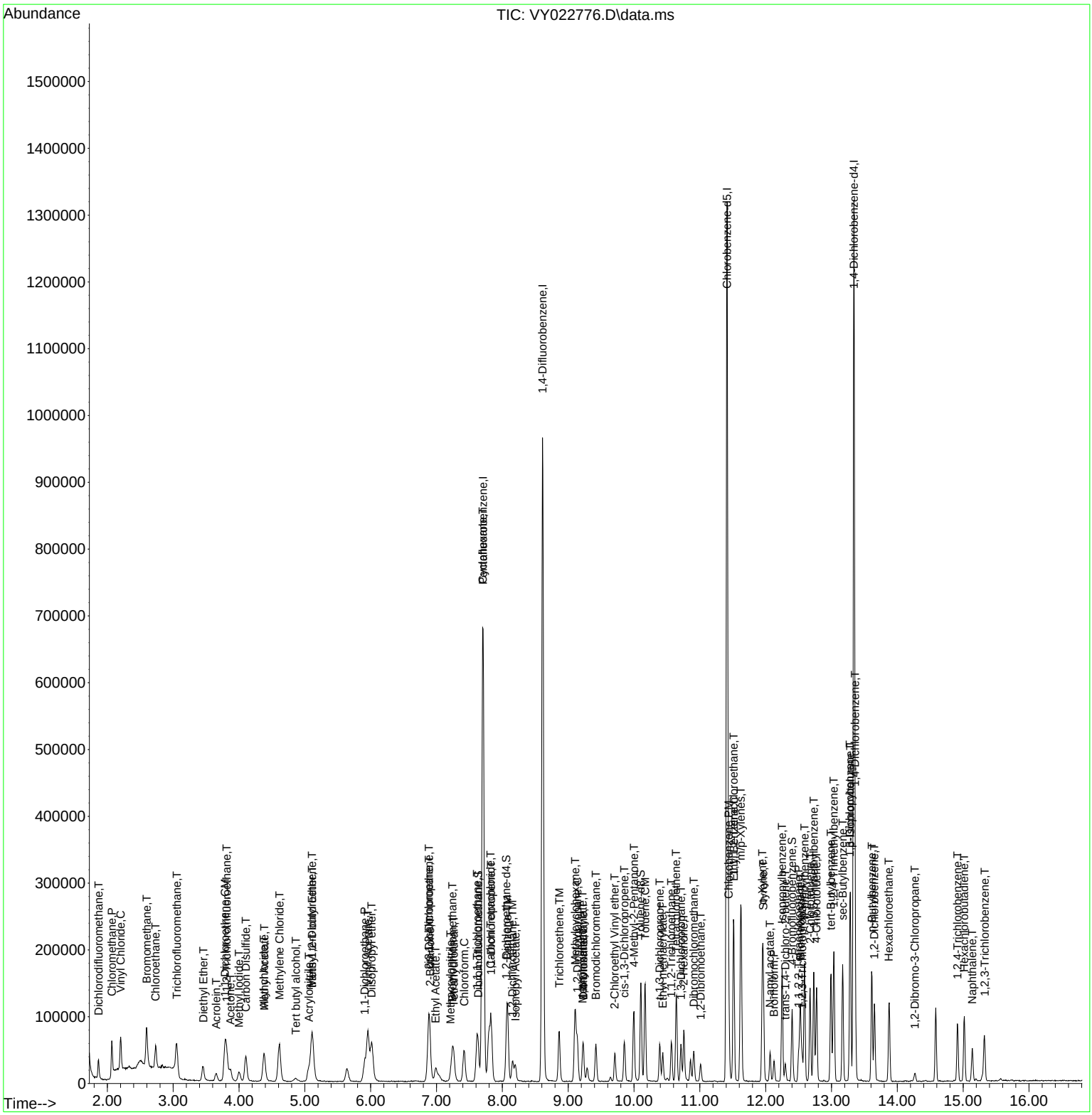
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022776.D
Acq On : 23 Jun 2025 13:38
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

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

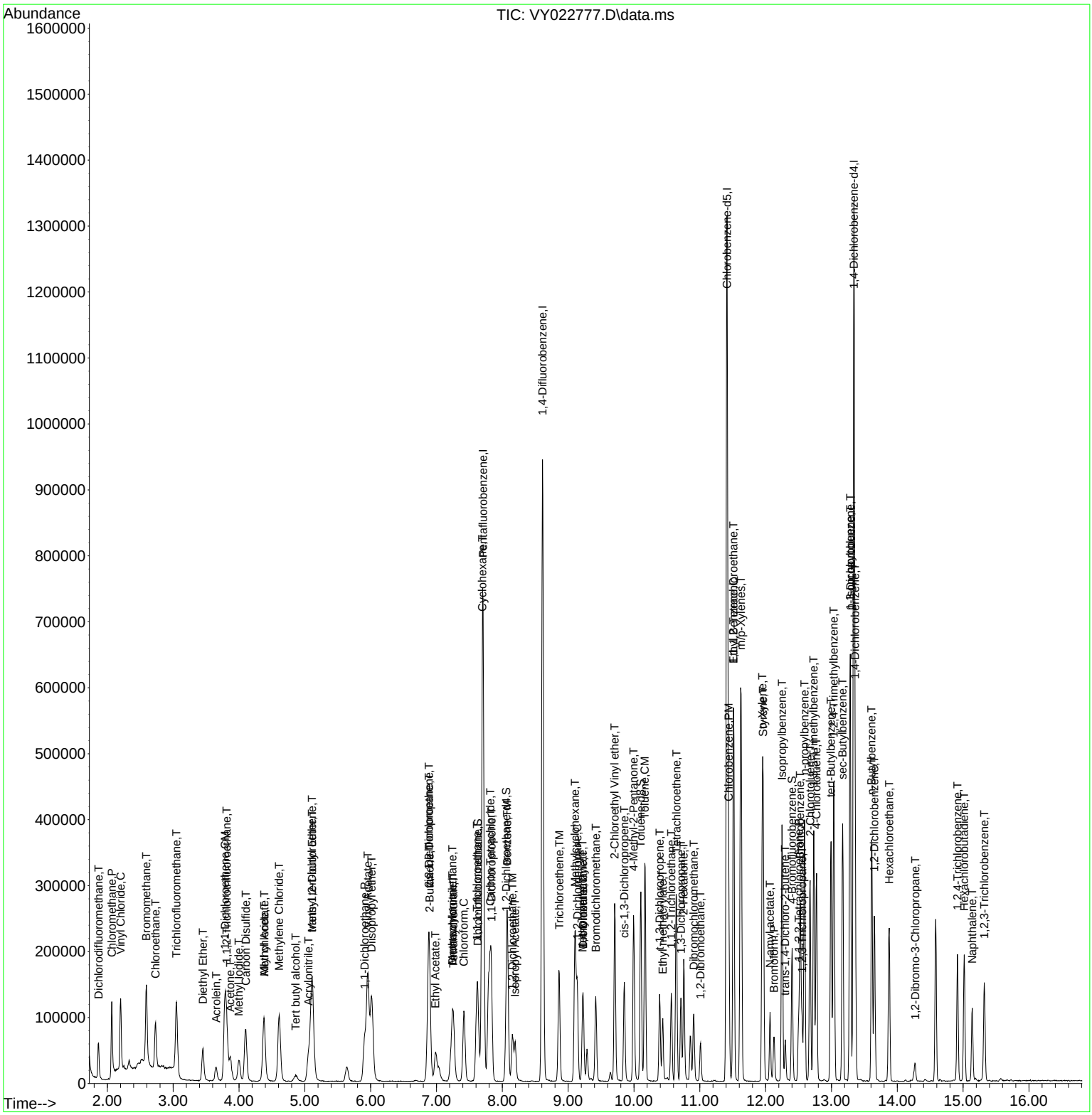
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022777.D
Acq On : 23 Jun 2025 14:00
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

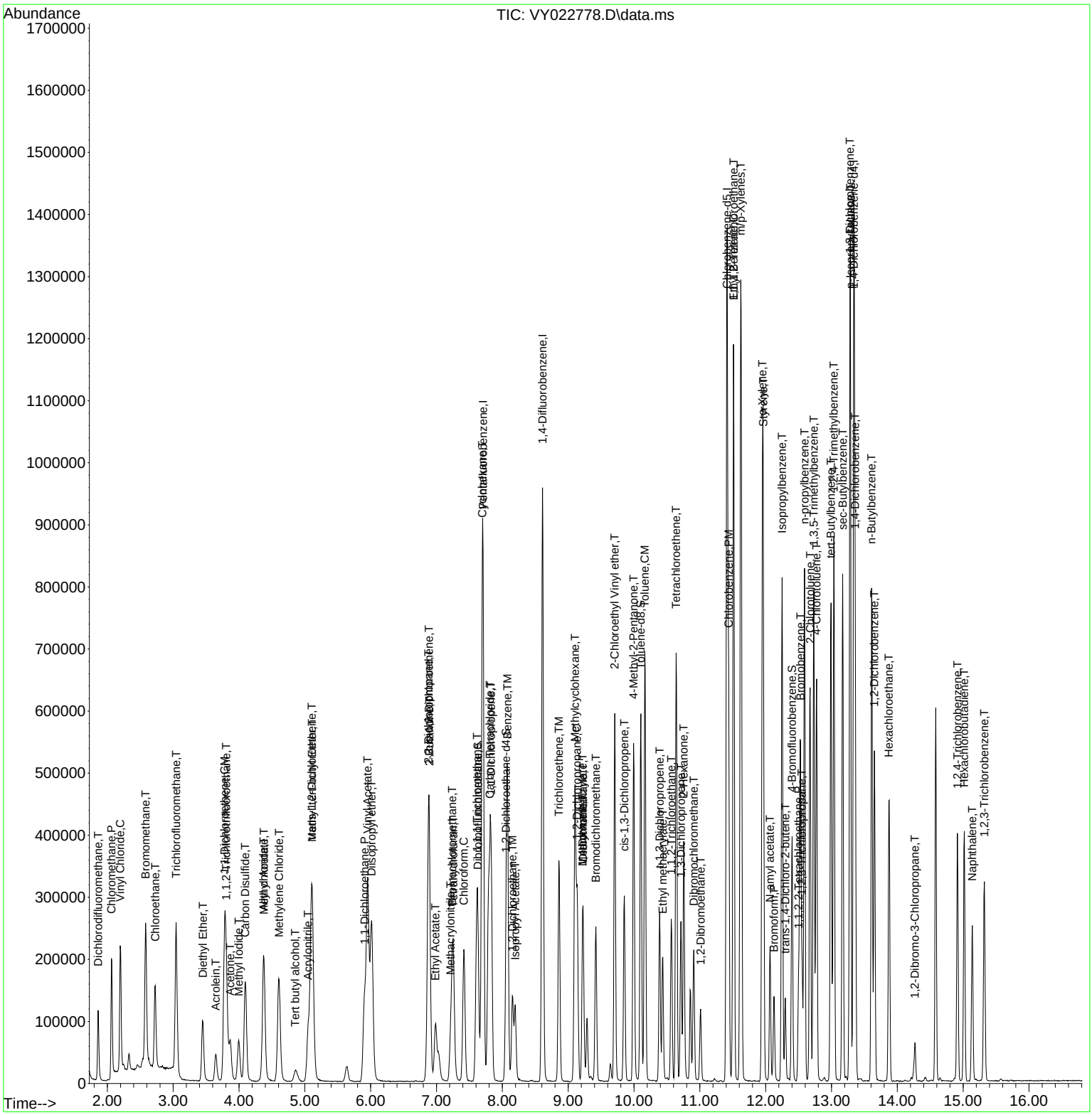
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022778.D
Acq On : 23 Jun 2025 14:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

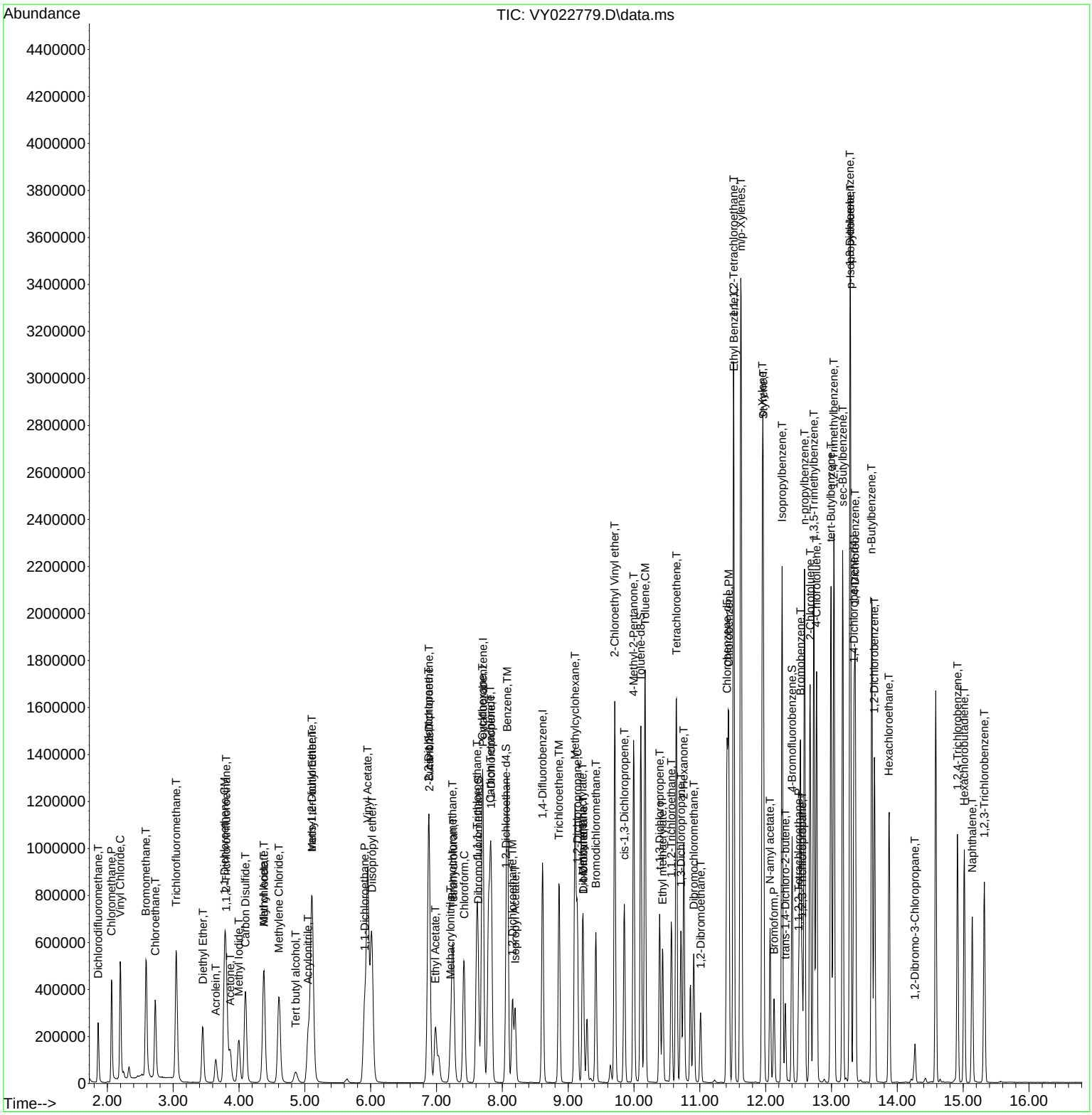
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022779.D
Acq On : 23 Jun 2025 14:46
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

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

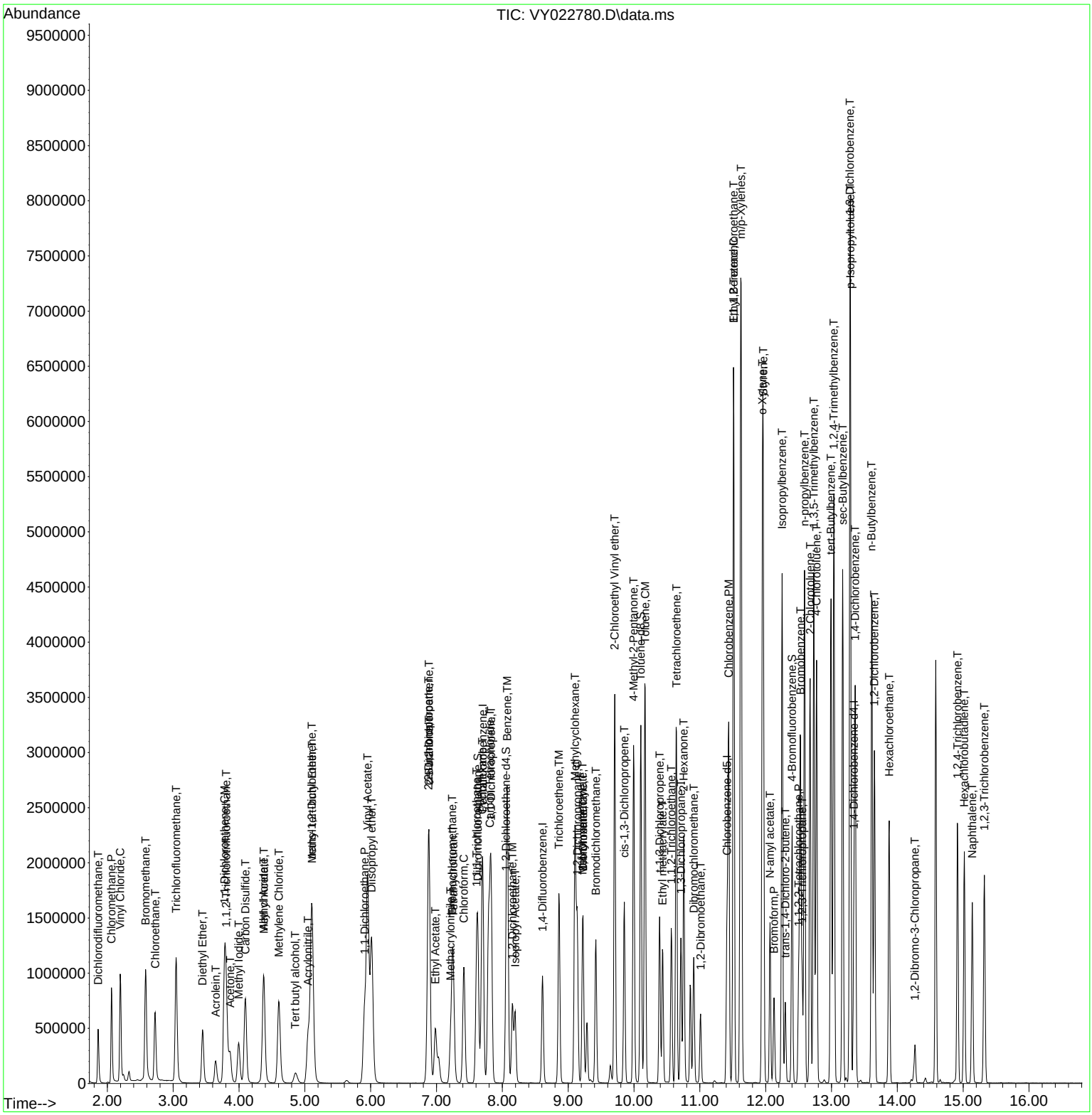
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022780.D
Acq On : 23 Jun 2025 15:08
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

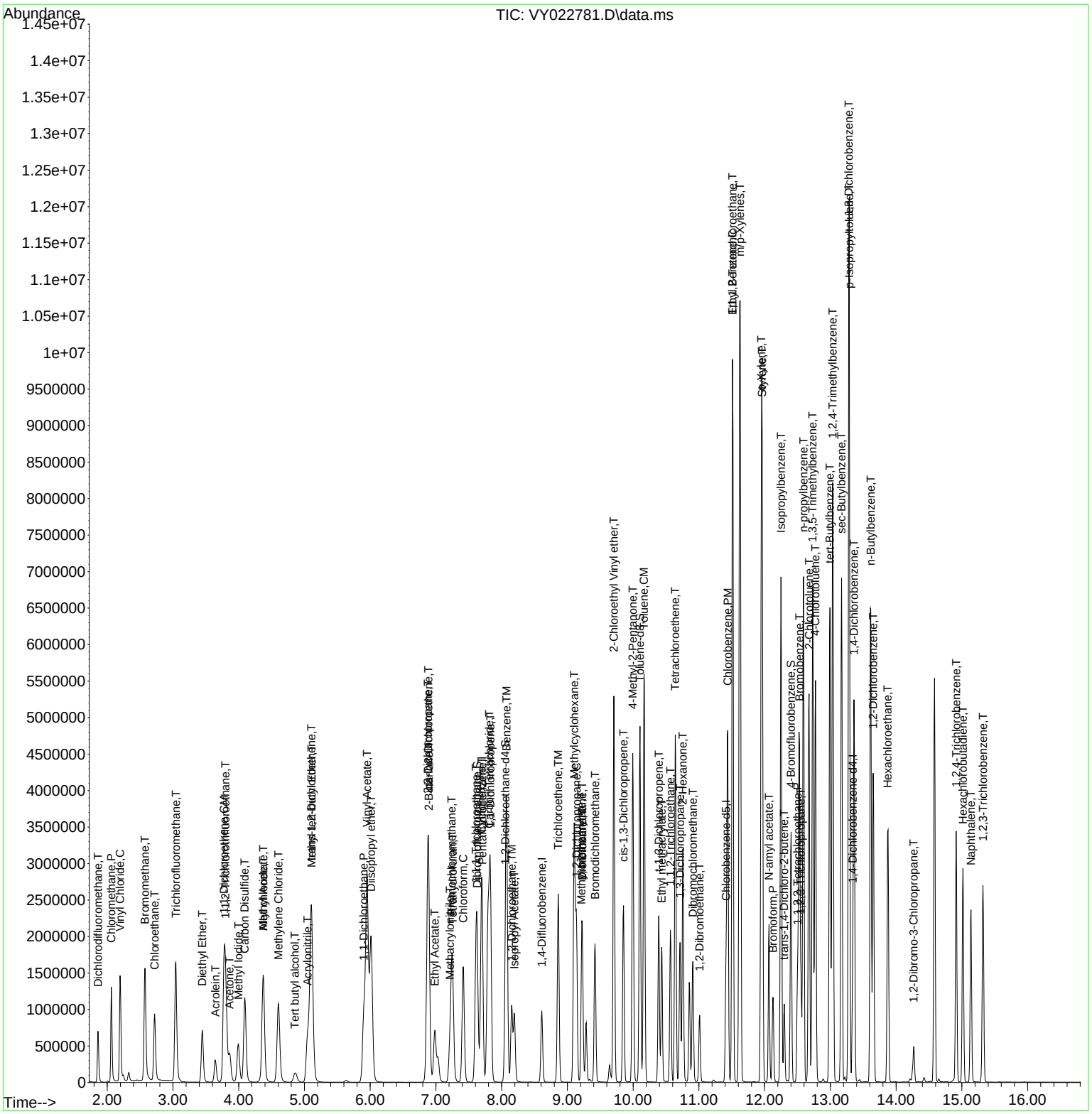
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022781.D
Acq On : 23 Jun 2025 15:31
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

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

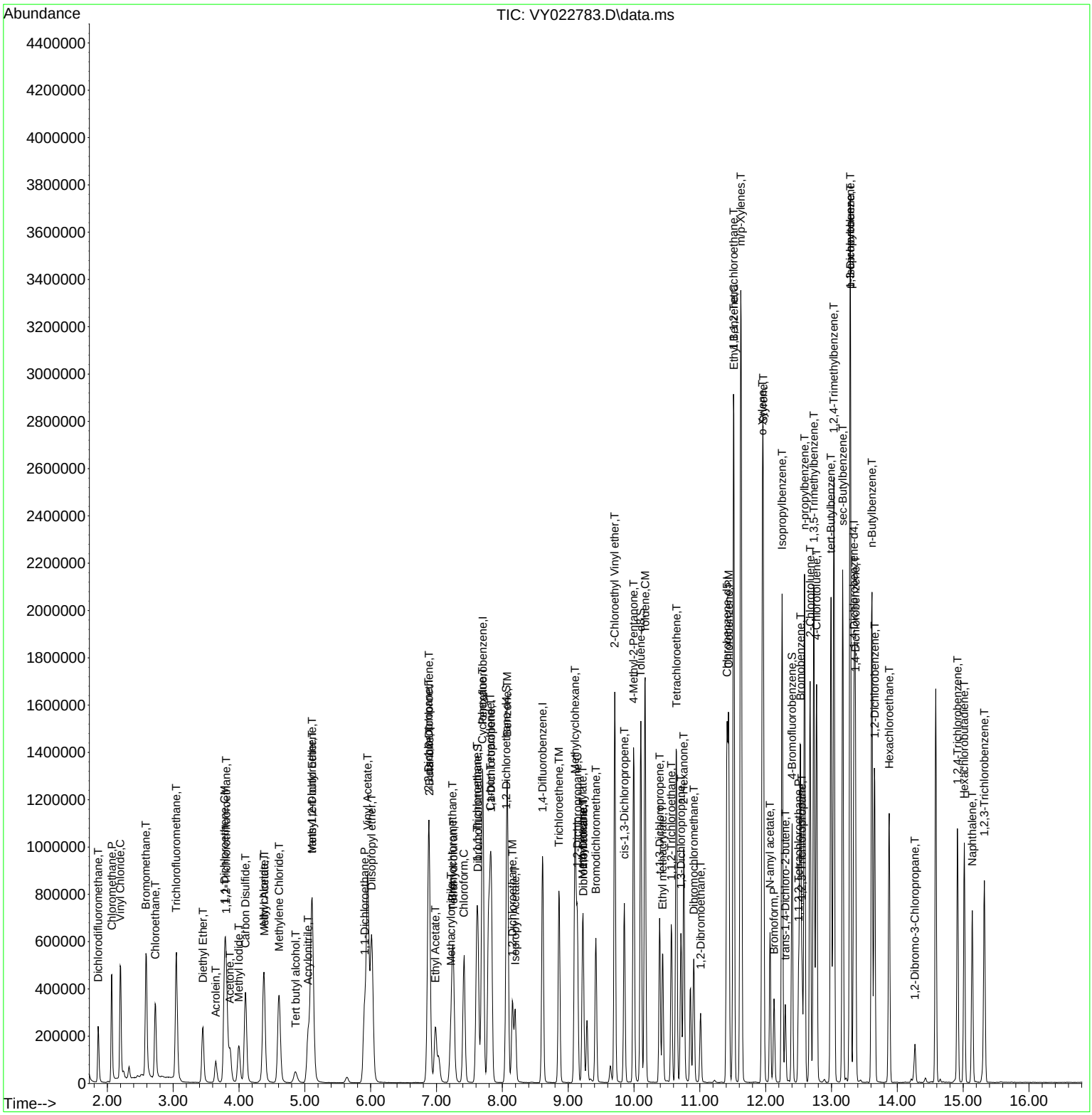
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022783.D
Acq On : 23 Jun 2025 16:17
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

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: **VY022811.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.: Q2413 SAS No.: Q2413 SDG No.: Q2413

Instrument ID: MSVOA_Y Calibration Date/Time: 06/25/2025 09:13

Lab File ID: VY022811.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	0.402		-6.07	20
Chloromethane	0.816	0.678	0.1	-16.91	20
Vinyl Chloride	1.020	0.942		-7.65	20
Bromomethane	0.802	0.717		-10.6	20
Chloroethane	0.686	0.643		-6.27	20
Trichlorofluoromethane	1.129	1.068		-5.4	20
1,1,2-Trichlorotrifluoroethane	0.516	0.503		-2.52	20
1,1-Dichloroethene	0.506	0.494		-2.37	20
Acetone	0.105	0.114		8.57	20
Carbon Disulfide	1.635	1.577		-3.55	20
Methyl tert-butyl Ether	1.378	1.304		-5.37	20
Methyl Acetate	0.349	0.282		-19.2	20
Methylene Chloride	0.666	0.569		-14.56	20
trans-1,2-Dichloroethene	0.578	0.554		-4.15	20
1,1-Dichloroethane	1.044	1.002	0.1	-4.02	20
Cyclohexane	0.959	0.895		-6.67	20
2-Butanone	0.154	0.145		-5.84	20
Carbon Tetrachloride	0.486	0.494		1.65	20
cis-1,2-Dichloroethene	0.672	0.648		-3.57	20
Bromochloromethane	0.439	0.409		-6.83	20
Chloroform	1.076	1.022		-4.93	20
1,1,1-Trichloroethane	0.929	0.916		-1.4	20
Methylcyclohexane	0.596	0.609		2.18	20
Benzene	1.417	1.415		-0.14	20
1,2-Dichloroethane	0.388	0.380		-2.06	20
Trichloroethene	0.356	0.364		2.25	20
1,2-Dichloropropane	0.332	0.331		-0.3	20
Bromodichloromethane	0.485	0.481		-0.82	20
4-Methyl-2-Pentanone	0.210	0.201		-4.29	20
Toluene	0.894	0.909		1.68	20
t-1,3-Dichloropropene	0.437	0.438		0.23	20
cis-1,3-Dichloropropene	0.506	0.513		1.38	20
1,1,2-Trichloroethane	0.244	0.236		-3.28	20
2-Hexanone	0.143	0.141		-1.4	20
Dibromochloromethane	0.315	0.312		-0.95	20
1,2-Dibromoethane	0.228	0.223		-2.19	20
Tetrachloroethene	0.472	0.499		5.72	20
Chlorobenzene	1.099	1.104	0.3	0.46	20

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

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.: Q2413 SAS No.: Q2413 SDG No.: Q2413

Instrument ID: MSVOA_Y Calibration Date/Time: 06/25/2025 09:13

Lab File ID: VY022811.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	1.981		2.64	20
m/p-Xylenes	0.746	0.775		3.89	20
o-Xylene	0.703	0.725		3.13	20
Styrene	1.178	1.218		3.4	20
Bromoform	0.207	0.199	0.1	-3.87	20
Isopropylbenzene	3.698	3.805		2.89	20
1,1,2,2-Tetrachloroethane	0.596	0.530	0.3	-11.07	20
1,3-Dichlorobenzene	1.683	1.693		0.59	20
1,4-Dichlorobenzene	1.672	1.661		-0.66	20
1,2-Dichlorobenzene	1.483	1.460		-1.55	20
1,2-Dibromo-3-Chloropropane	0.101	0.095		-5.94	20
1,2,4-Trichlorobenzene	0.838	0.820		-2.15	20
1,2,3-Trichlorobenzene	0.724	0.698		-3.59	20
1,2-Dichloroethane-d4	0.558	0.536		-3.94	20
Dibromofluoromethane	0.304	0.309		1.64	20
Toluene-d8	1.207	1.256		4.06	20
4-Bromofluorobenzene	0.388	0.398		2.58	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: **VY022811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022811.D
Acq On : 25 Jun 2025 09:13
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 01:20:38 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 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	448549	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	727879	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	634524	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	316858	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	240425	48.025	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.040%			
35) Dibromofluoromethane	7.628	113	224975	50.823	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.640%			
50) Toluene-d8	10.103	98	914056	52.037	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.080%			
62) 4-Bromofluorobenzene	12.402	95	289678	51.300	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	180214	46.985	ug/l	98
3) Chloromethane	2.068	50	304245	41.540	ug/l	97
4) Vinyl Chloride	2.202	62	422331	46.155	ug/l	99
5) Bromomethane	2.592	94	321449	44.686	ug/l	98
6) Chloroethane	2.733	64	288512	46.907	ug/l	95
7) Trichlorofluoromethane	3.050	101	478972	47.274	ug/l	97
8) Diethyl Ether	3.452	74	115934	46.329	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	225579	48.719	ug/l	97
10) Methyl Iodide	4.001	142	262810	52.132	ug/l	99
11) Tert butyl alcohol	4.854	59	70733	212.488	ug/l	97
12) 1,1-Dichloroethene	3.787	96	221456	48.777	ug/l	99
13) Acrolein	3.647	56	86955	192.639	ug/l	98
14) Allyl chloride	4.379	41	331352	47.449	ug/l	96
15) Acrylonitrile	5.055	53	237143	227.130	ug/l	100
16) Acetone	3.866	43	256030	270.581	ug/l	99
17) Carbon Disulfide	4.104	76	707182	48.215	ug/l	99
18) Methyl Acetate	4.379	43	126312	40.309	ug/l	98
19) Methyl tert-butyl Ether	5.110	73	584880	47.311	ug/l	98
20) Methylene Chloride	4.610	84	255294	42.722	ug/l	95
21) trans-1,2-Dichloroethene	5.104	96	248382	47.868	ug/l	97
22) Diisopropyl ether	6.012	45	736490	47.489	ug/l	99
23) Vinyl Acetate	5.958	43	2066183	241.229	ug/l	98
24) 1,1-Dichloroethane	5.909	63	449244	47.957	ug/l	99
25) 2-Butanone	6.884	43	325554	236.396	ug/l	98
26) 2,2-Dichloropropane	6.878	77	400519	51.006	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	290538	48.186	ug/l	100
28) Bromochloromethane	7.244	49	183603	46.620	ug/l	90
29) Tetrahydrofuran	7.262	42	194236	223.363	ug/l	98
30) Chloroform	7.415	83	458350	47.506	ug/l	97
31) Cyclohexane	7.695	56	401308	46.670	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	411034	49.298	ug/l	99
36) 1,1-Dichloropropene	7.835	75	338214	50.407	ug/l	99
37) Ethyl Acetate	6.982	43	136570	47.169	ug/l	98
38) Carbon Tetrachloride	7.811	117	359275	50.748	ug/l	98
39) Methylcyclohexane	9.103	83	443175	51.040	ug/l	99
40) Benzene	8.079	78	1029813	49.920	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022811.D
Acq On : 25 Jun 2025 09:13
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 01:20:38 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 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	87080m	48.854	ug/l		
42) 1,2-Dichloroethane	8.152	62	276872	48.978	ug/l		100
43) Isopropyl Acetate	8.195	43	284360	47.255	ug/l		98
44) Trichloroethene	8.866	130	265065	51.177	ug/l		92
45) 1,2-Dichloropropane	9.140	63	240940	49.903	ug/l		97
46) Dibromomethane	9.231	93	132491	48.340	ug/l		96
47) Bromodichloromethane	9.420	83	350154	49.544	ug/l		97
48) Methyl methacrylate	9.219	41	138660	47.932	ug/l		94
49) 1,4-Dioxane	9.225	88	28884	891.995	ug/l		96
51) 4-Methyl-2-Pentanone	9.993	43	730067	238.741	ug/l		95
52) Toluene	10.170	92	661303	50.813	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	319011	50.167	ug/l		95
54) cis-1,3-Dichloropropene	9.853	75	373423	50.646	ug/l		96
55) 1,1,2-Trichloroethane	10.566	97	171753	48.394	ug/l		96
56) Ethyl methacrylate	10.438	69	239759	50.213	ug/l		93
57) 1,3-Dichloropropane	10.713	76	296576	47.897	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.707	63	578771	231.838	ug/l		97
59) 2-Hexanone	10.755	43	512572	246.541	ug/l		96
60) Dibromochloromethane	10.908	129	227181	49.558	ug/l		99
61) 1,2-Dibromoethane	11.012	107	162586	48.956	ug/l		96
64) Tetrachloroethene	10.646	164	316666	52.827	ug/l		98
65) Chlorobenzene	11.438	112	700577	50.248	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.511	131	235790	49.930	ug/l		99
67) Ethyl Benzene	11.518	91	1257234	51.322	ug/l		97
68) m/p-Xylenes	11.621	106	983789	103.889	ug/l		100
69) o-Xylene	11.950	106	459787	51.530	ug/l		100
70) Styrene	11.969	104	772857	51.710	ug/l		99
71) Bromoform	12.127	173	126376	48.061	ug/l	#	99
73) Isopropylbenzene	12.249	105	1205651	51.449	ug/l		99
74) N-amyl acetate	12.066	43	260075	49.444	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	168089	44.506	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	151600m	46.865	ug/l		
77) Bromobenzene	12.530	156	262793	49.475	ug/l		99
78) n-propylbenzene	12.591	91	1466178	51.821	ug/l		98
79) 2-Chlorotoluene	12.676	91	810209	50.685	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	974376	51.507	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.298	75	61711	48.196	ug/l		98
82) 4-Chlorotoluene	12.773	91	835838	49.780	ug/l		99
83) tert-Butylbenzene	12.993	119	867090	51.973	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	989679	52.254	ug/l		99
85) sec-Butylbenzene	13.170	105	1315993	52.426	ug/l		99
86) p-Isopropyltoluene	13.286	119	1102630	52.785	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	536520	50.294	ug/l		100
88) 1,4-Dichlorobenzene	13.359	146	526174	49.655	ug/l		99
89) n-Butylbenzene	13.615	91	1034111	52.629	ug/l		99
90) Hexachloroethane	13.877	117	210549	50.607	ug/l		96
91) 1,2-Dichlorobenzene	13.657	146	462734	49.222	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	30204	47.159	ug/l		97
93) 1,2,4-Trichlorobenzene	14.913	180	259937	48.973	ug/l		98
94) Hexachlorobutadiene	15.017	225	147577	49.168	ug/l		98
95) Naphthalene	15.139	128	464287	48.371	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	221282	48.245	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022811.D
Acq On : 25 Jun 2025 09:13
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 01:20:38 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 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025

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

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

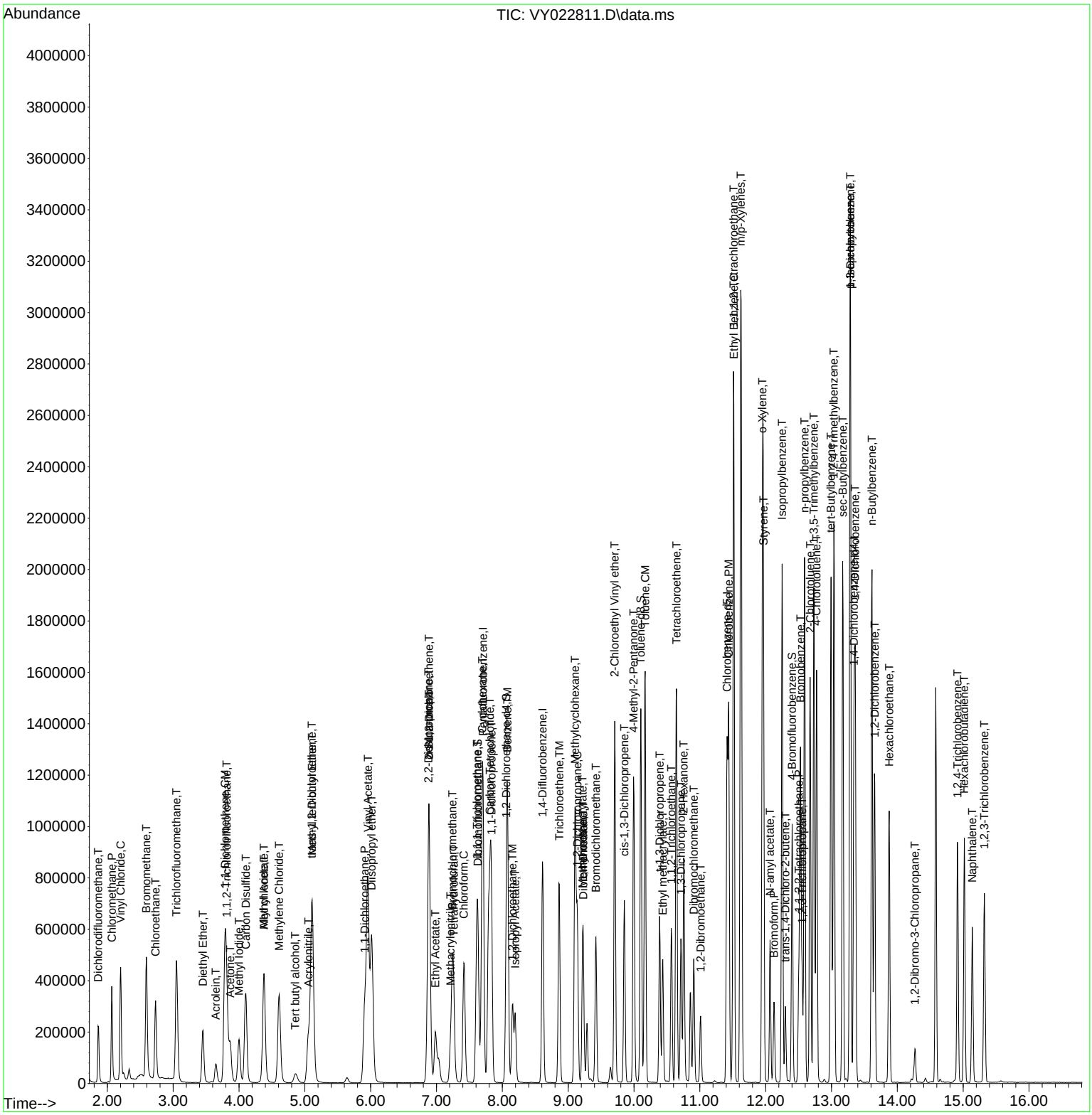
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022811.D
Acq On : 25 Jun 2025 09:13
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 01:20:38 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 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025



Evaluate Continuing Calibration Report

Sample Results: **VY022811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022811.D
Acq On : 25 Jun 2025 09:13
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 26 01:20:38 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	96	0.00
2	T	Dichlorodifluoromethane	0.428	0.402	6.1	91	0.00
3	P	Chloromethane	0.816	0.678	16.9	82	0.00
4	C	Vinyl Chloride	1.020	0.942	7.6#	87	0.00
5	T	Bromomethane	0.802	0.717	10.6	89	0.00
6	T	Chloroethane	0.686	0.643	6.3	89	0.00
7	T	Trichlorofluoromethane	1.129	1.068	5.4	88	0.00
8	T	Diethyl Ether	0.279	0.258	7.5	87	-0.01
9	T	1,1,2-Trichlorotrifluoroeth	0.516	0.503	2.5	94	0.00
10	T	Methyl Iodide	0.562	0.586	-4.3	90	0.00
11	T	Tert butyl alcohol	0.037	0.032	13.5	79	-0.03
12	CM	1,1-Dichloroethene	0.506	0.494	2.4#	92	-0.01
13	T	Acrolein	0.050	0.039	22.0	75	-0.01
14	T	Allyl chloride	0.778	0.739	5.0	89	-0.01
15	T	Acrylonitrile	0.116	0.106	8.6	84	-0.01
16	T	Acetone	0.105	0.114	-8.6	115	-0.01
17	T	Carbon Disulfide	1.635	1.577	3.5	91	0.00
18	T	Methyl Acetate	0.349	0.282	19.2	77	-0.02
19	T	Methyl tert-butyl Ether	1.378	1.304	5.4	87	-0.02
20	T	Methylene Chloride	0.666	0.569	14.6	93	-0.01
21	T	trans-1,2-Dichloroethene	0.578	0.554	4.2	90	-0.02
22	T	Diisopropyl ether	1.729	1.642	5.0	88	-0.01
23	T	Vinyl Acetate	0.955	0.921	3.6	88	-0.01
24	P	1,1-Dichloroethane	1.044	1.002	4.0	89	-0.01
25	T	2-Butanone	0.154	0.145	5.8	91	-0.02
26	T	2,2-Dichloropropane	0.875	0.893	-2.1	97	-0.01
27	T	cis-1,2-Dichloroethene	0.672	0.648	3.6	91	-0.01
28	T	Bromochloromethane	0.439	0.409	6.8	86	0.00
29	T	Tetrahydrofuran	0.097	0.087	10.3	82	0.00
30	C	Chloroform	1.076	1.022	5.0#	90	-0.01
31	T	Cyclohexane	0.959	0.895	6.7	91	-0.01
32	T	1,1,1-Trichloroethane	0.929	0.916	1.4	93	0.00
33	S	1,2-Dichloroethane-d4	0.558	0.536	3.9	92	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
35	S	Dibromofluoromethane	0.304	0.309	-1.6	94	-0.01
36	T	1,1-Dichloropropene	0.461	0.465	-0.9	92	0.00
37	T	Ethyl Acetate	0.199	0.188	5.5	85	-0.01
38	T	Carbon Tetrachloride	0.486	0.494	-1.6	93	-0.01
39	T	Methylcyclohexane	0.596	0.609	-2.2	91	-0.01
40	TM	Benzene	1.417	1.415	0.1	90	0.00
41	T	Methacrylonitrile	0.122	0.120	1.6	93	-0.02
42	TM	1,2-Dichloroethane	0.388	0.380	2.1	88	-0.01
43	T	Isopropyl Acetate	0.413	0.391	5.3	83	0.00
44	TM	Trichloroethene	0.356	0.364	-2.2	91	0.00
45	C	1,2-Dichloropropane	0.332	0.331	0.3#	90	0.00
46	T	Dibromomethane	0.188	0.182	3.2	88	0.00
47	T	Bromodichloromethane	0.485	0.481	0.8	89	0.00
48	T	Methyl methacrylate	0.199	0.190	4.5	82	0.00

Sample Results: **VY022811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022811.D
Acq On : 25 Jun 2025 09:13
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 26 01:20:38 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	80	-0.02
50	S	Toluene-d8	1.207	1.256	-4.1	96	0.00
51	T	4-Methyl-2-Pentanone	0.210	0.201	4.3	82	0.00
52	CM	Toluene	0.894	0.909	-1.7#	91	0.00
53	T	t-1,3-Dichloropropene	0.437	0.438	-0.2	90	0.00
54	T	cis-1,3-Dichloropropene	0.506	0.513	-1.4	91	0.00
55	T	1,1,2-Trichloroethane	0.244	0.236	3.3	87	0.00
56	T	Ethyl methacrylate	0.328	0.329	-0.3	86	0.00
57	T	1,3-Dichloropropane	0.425	0.407	4.2	86	0.00
58	T	2-Chloroethyl Vinyl ether	0.145	0.159	-9.7	87	0.00
59	T	2-Hexanone	0.143	0.141	1.4	86	0.00
60	T	Dibromochloromethane	0.315	0.312	1.0	88	0.00
61	T	1,2-Dibromoethane	0.228	0.223	2.2	87	0.00
62	S	4-Bromofluorobenzene	0.388	0.398	-2.6	96	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
64	T	Tetrachloroethene	0.472	0.499	-5.7	90	0.00
65	PM	Chlorobenzene	1.099	1.104	-0.5	91	0.00
66	T	1,1,1,2-Tetrachloroethane	0.372	0.372	0.0	90	0.00
67	C	Ethyl Benzene	1.930	1.981	-2.6#	91	0.00
68	T	m/p-Xylenes	0.746	0.775	-3.9	92	-0.01
69	T	o-Xylene	0.703	0.725	-3.1	92	0.00
70	T	Styrene	1.178	1.218	-3.4	91	0.00
71	P	Bromoform	0.207	0.199	3.9	87	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
73	T	Isopropylbenzene	3.698	3.805	-2.9	93	0.00
74	T	N-amyl acetate	0.830	0.821	1.1	84	0.00
75	P	1,1,2,2-Tetrachloroethane	0.596	0.530	11.1	86	0.00
76	T	1,2,3-Trichloropropane	0.510	0.478	6.3	86	0.00
77	T	Bromobenzene	0.838	0.829	1.1	89	0.00
78	T	n-propylbenzene	4.465	4.627	-3.6	93	0.00
79	T	2-Chlorotoluene	2.522	2.557	-1.4	91	0.00
80	T	1,3,5-Trimethylbenzene	2.985	3.075	-3.0	92	0.00
81	T	trans-1,4-Dichloro-2-butene	0.202	0.195	3.5	90	0.00
82	T	4-Chlorotoluene	2.650	2.638	0.5	90	0.00
83	T	tert-Butylbenzene	2.633	2.737	-3.9	92	0.00
84	T	1,2,4-Trimethylbenzene	2.989	3.123	-4.5	93	0.00
85	T	sec-Butylbenzene	3.961	4.153	-4.8	93	0.00
86	T	p-Isopropyltoluene	3.296	3.480	-5.6	94	0.00
87	T	1,3-Dichlorobenzene	1.683	1.693	-0.6	91	0.00
88	T	1,4-Dichlorobenzene	1.672	1.661	0.7	91	-0.01
89	T	n-Butylbenzene	3.101	3.264	-5.3	94	0.00
90	T	Hexachloroethane	0.657	0.664	-1.1	91	0.00
91	T	1,2-Dichlorobenzene	1.483	1.460	1.6	90	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.101	0.095	5.9	85	0.00
93	T	1,2,4-Trichlorobenzene	0.838	0.820	2.1	89	0.00
94	T	Hexachlorobutadiene	0.474	0.466	1.7	92	0.00
95	T	Naphthalene	1.515	1.465	3.3	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022811.D
Acq On : 25 Jun 2025 09:13
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 26 01:20:38 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	0.698	3.6	88	0.00

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

Sample Results: **VY022811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022811.D
Acq On : 25 Jun 2025 09:13
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 26 01:20:38 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	96	0.00
2	T	Dichlorodifluoromethane	50.000	46.985	6.0	91	0.00
3	P	Chloromethane	50.000	41.540	16.9	82	0.00
4	C	Vinyl Chloride	50.000	46.155	7.7#	87	0.00
5	T	Bromomethane	50.000	44.686	10.6	89	0.00
6	T	Chloroethane	50.000	46.907	6.2	89	0.00
7	T	Trichlorofluoromethane	50.000	47.274	5.5	88	0.00
8	T	Diethyl Ether	50.000	46.329	7.3	87	-0.01
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.719	2.6	94	0.00
10	T	Methyl Iodide	50.000	52.132	-4.3	90	0.00
11	T	Tert butyl alcohol	250.000	212.488	15.0	79	-0.03
12	CM	1,1-Dichloroethene	50.000	48.777	2.4#	92	-0.01
13	T	Acrolein	250.000	192.639	22.9	75	-0.01
14	T	Allyl chloride	50.000	47.449	5.1	89	-0.01
15	T	Acrylonitrile	250.000	227.130	9.1	84	-0.01
16	T	Acetone	250.000	270.581	-8.2	115	-0.01
17	T	Carbon Disulfide	50.000	48.215	3.6	91	0.00
18	T	Methyl Acetate	50.000	40.309	19.4	77	-0.02
19	T	Methyl tert-butyl Ether	50.000	47.311	5.4	87	-0.02
20	T	Methylene Chloride	50.000	42.722	14.6	93	-0.01
21	T	trans-1,2-Dichloroethene	50.000	47.868	4.3	90	-0.02
22	T	Diisopropyl ether	50.000	47.489	5.0	88	-0.01
23	T	Vinyl Acetate	250.000	241.229	3.5	88	-0.01
24	P	1,1-Dichloroethane	50.000	47.957	4.1	89	-0.01
25	T	2-Butanone	250.000	236.396	5.4	91	-0.02
26	T	2,2-Dichloropropane	50.000	51.006	-2.0	97	-0.01
27	T	cis-1,2-Dichloroethene	50.000	48.186	3.6	91	-0.01
28	T	Bromochloromethane	50.000	46.620	6.8	86	0.00
29	T	Tetrahydrofuran	250.000	223.363	10.7	82	0.00
30	C	Chloroform	50.000	47.506	5.0#	90	-0.01
31	T	Cyclohexane	50.000	46.670	6.7	91	-0.01
32	T	1,1,1-Trichloroethane	50.000	49.298	1.4	93	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.025	4.0	92	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	93	0.00
35	S	Dibromofluoromethane	50.000	50.823	-1.6	94	-0.01
36	T	1,1-Dichloropropene	50.000	50.407	-0.8	92	0.00
37	T	Ethyl Acetate	50.000	47.169	5.7	85	-0.01
38	T	Carbon Tetrachloride	50.000	50.748	-1.5	93	-0.01
39	T	Methylcyclohexane	50.000	51.040	-2.1	91	-0.01
40	TM	Benzene	50.000	49.920	0.2	90	0.00
41	T	Methacrylonitrile	50.000	48.854	2.3	93	-0.02
42	TM	1,2-Dichloroethane	50.000	48.978	2.0	88	-0.01
43	T	Isopropyl Acetate	50.000	47.255	5.5	83	0.00
44	TM	Trichloroethene	50.000	51.177	-2.4	91	0.00
45	C	1,2-Dichloropropane	50.000	49.903	0.2#	90	0.00
46	T	Dibromomethane	50.000	48.340	3.3	88	0.00
47	T	Bromodichloromethane	50.000	49.544	0.9	89	0.00
48	T	Methyl methacrylate	50.000	47.932	4.1	82	0.00

Sample Results: **VY022811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022811.D
Acq On : 25 Jun 2025 09:13
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 26 01:20:38 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	891.995	10.8	80	-0.02
50	S	Toluene-d8	50.000	52.037	-4.1	96	0.00
51	T	4-Methyl-2-Pentanone	250.000	238.741	4.5	82	0.00
52	CM	Toluene	50.000	50.813	-1.6#	91	0.00
53	T	t-1,3-Dichloropropene	50.000	50.167	-0.3	90	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.646	-1.3	91	0.00
55	T	1,1,2-Trichloroethane	50.000	48.394	3.2	87	0.00
56	T	Ethyl methacrylate	50.000	50.213	-0.4	86	0.00
57	T	1,3-Dichloropropane	50.000	47.897	4.2	86	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	231.838	7.3	87	0.00
59	T	2-Hexanone	250.000	246.541	1.4	86	0.00
60	T	Dibromochloromethane	50.000	49.558	0.9	88	0.00
61	T	1,2-Dibromoethane	50.000	48.956	2.1	87	0.00
62	S	4-Bromofluorobenzene	50.000	51.300	-2.6	96	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	93	0.00
64	T	Tetrachloroethene	50.000	52.827	-5.7	90	0.00
65	PM	Chlorobenzene	50.000	50.248	-0.5	91	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.930	0.1	90	0.00
67	C	Ethyl Benzene	50.000	51.322	-2.6#	91	0.00
68	T	m/p-Xylenes	100.000	103.889	-3.9	92	-0.01
69	T	o-Xylene	50.000	51.530	-3.1	92	0.00
70	T	Styrene	50.000	51.710	-3.4	91	0.00
71	P	Bromoform	50.000	48.061	3.9	87	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
73	T	Isopropylbenzene	50.000	51.449	-2.9	93	0.00
74	T	N-amyl acetate	50.000	49.444	1.1	84	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	44.506	11.0	86	0.00
76	T	1,2,3-Trichloropropane	50.000	46.865	6.3	86	0.00
77	T	Bromobenzene	50.000	49.475	1.0	89	0.00
78	T	n-propylbenzene	50.000	51.821	-3.6	93	0.00
79	T	2-Chlorotoluene	50.000	50.685	-1.4	91	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.507	-3.0	92	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.196	3.6	90	0.00
82	T	4-Chlorotoluene	50.000	49.780	0.4	90	0.00
83	T	tert-Butylbenzene	50.000	51.973	-3.9	92	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.254	-4.5	93	0.00
85	T	sec-Butylbenzene	50.000	52.426	-4.9	93	0.00
86	T	p-Isopropyltoluene	50.000	52.785	-5.6	94	0.00
87	T	1,3-Dichlorobenzene	50.000	50.294	-0.6	91	0.00
88	T	1,4-Dichlorobenzene	50.000	49.655	0.7	91	-0.01
89	T	n-Butylbenzene	50.000	52.629	-5.3	94	0.00
90	T	Hexachloroethane	50.000	50.607	-1.2	91	0.00
91	T	1,2-Dichlorobenzene	50.000	49.222	1.6	90	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.159	5.7	85	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.973	2.1	89	0.00
94	T	Hexachlorobutadiene	50.000	49.168	1.7	92	0.00
95	T	Naphthalene	50.000	48.371	3.3	84	0.00

Sample Results: **VY022811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022811.D
Acq On : 25 Jun 2025 09:13
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 26 01:20:38 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	48.245	3.5	88	0.00

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

Raw Data: **VY022838.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.: Q2413 SAS No.: Q2413 SDG No.: Q2413

Instrument ID: MSVOA_Y Calibration Date/Time: 06/26/2025 10:07

Lab File ID: VY022838.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	0.440		2.8	20
Chloromethane	0.816	0.752	0.1	-7.84	20
Vinyl Chloride	1.020	0.980		-3.92	20
Bromomethane	0.802	0.762		-4.99	20
Chloroethane	0.686	0.667		-2.77	20
Trichlorofluoromethane	1.129	1.082		-4.16	20
1,1,2-Trichlorotrifluoroethane	0.516	0.546		5.81	20
1,1-Dichloroethene	0.506	0.545		7.71	20
Acetone	0.105	0.131		24.76	20
Carbon Disulfide	1.635	1.715		4.89	20
Methyl tert-butyl Ether	1.378	1.465		6.31	20
Methyl Acetate	0.349	0.323		-7.45	20
Methylene Chloride	0.666	0.634		-4.8	20
trans-1,2-Dichloroethene	0.578	0.608		5.19	20
1,1-Dichloroethane	1.044	1.094	0.1	4.79	20
Cyclohexane	0.959	1.000		4.28	20
2-Butanone	0.154	0.172		11.69	20
Carbon Tetrachloride	0.486	0.541		11.32	20
cis-1,2-Dichloroethene	0.672	0.699		4.02	20
Bromochloromethane	0.439	0.426		-2.96	20
Chloroform	1.076	1.110		3.26	20
1,1,1-Trichloroethane	0.929	0.993		6.89	20
Methylcyclohexane	0.596	0.679		13.93	20
Benzene	1.417	1.540		8.68	20
1,2-Dichloroethane	0.388	0.410		5.67	20
Trichloroethene	0.356	0.385		8.15	20
1,2-Dichloropropane	0.332	0.357		7.53	20
Bromodichloromethane	0.485	0.522		7.63	20
4-Methyl-2-Pentanone	0.210	0.232		10.48	20
Toluene	0.894	0.997		11.52	20
t-1,3-Dichloropropene	0.437	0.479		9.61	20
cis-1,3-Dichloropropene	0.506	0.554		9.49	20
1,1,2-Trichloroethane	0.244	0.262		7.38	20
2-Hexanone	0.143	0.165		15.39	20
Dibromochloromethane	0.315	0.338		7.3	20
1,2-Dibromoethane	0.228	0.245		7.46	20
Tetrachloroethene	0.472	0.516		9.32	20
Chlorobenzene	1.099	1.206	0.3	9.74	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: **VY022838.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.: Q2413 SAS No.: Q2413 SDG No.: Q2413

Instrument ID: MSVOA_Y Calibration Date/Time: 06/26/2025 10:07

Lab File ID: VY022838.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	2.192		13.57	20
m/p-Xylenes	0.746	0.854		14.48	20
o-Xylene	0.703	0.798		13.51	20
Styrene	1.178	1.349		14.52	20
Bromoform	0.207	0.220	0.1	6.28	20
Isopropylbenzene	3.698	4.255		15.06	20
1,1,2,2-Tetrachloroethane	0.596	0.638	0.3	7.05	20
1,3-Dichlorobenzene	1.683	1.856		10.28	20
1,4-Dichlorobenzene	1.672	1.815		8.55	20
1,2-Dichlorobenzene	1.483	1.605		8.23	20
1,2-Dibromo-3-Chloropropane	0.101	0.101		0	20
1,2,4-Trichlorobenzene	0.838	0.856		2.15	20
1,2,3-Trichlorobenzene	0.724	0.712		-1.66	20
1,2-Dichloroethane-d4	0.558	0.541		-3.05	20
Dibromofluoromethane	0.304	0.302		-0.66	20
Toluene-d8	1.207	1.223		1.33	20
4-Bromofluorobenzene	0.388	0.390		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\VY062625\
Data File : VY022838.D
Acq On : 26 Jun 2025 10:07
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/27/2025
Supervised By :Semsettin Yesilyurt 06/27/2025

Quant Time: Jun 27 01:23:13 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	469939	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	769006	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	661912	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	328091	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	254080	48.442	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.880%			
35) Dibromofluoromethane	7.634	113	232400	49.693	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.380%			
50) Toluene-d8	10.109	98	940249	50.666	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.340%			
62) 4-Bromofluorobenzene	12.408	95	300090	50.302	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	206568	51.404	ug/l	98
3) Chloromethane	2.068	50	353307	46.043	ug/l	99
4) Vinyl Chloride	2.202	62	460499	48.036	ug/l	100
5) Bromomethane	2.599	94	357888	47.487	ug/l	100
6) Chloroethane	2.739	64	313220	48.606	ug/l	96
7) Trichlorofluoromethane	3.056	101	508247	47.880	ug/l	99
8) Diethyl Ether	3.458	74	135208	51.571	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	256680	52.912	ug/l	97
10) Methyl Iodide	4.007	142	301590	57.101	ug/l	100
11) Tert butyl alcohol	4.866	59	85824	246.087	ug/l #	89
12) 1,1-Dichloroethene	3.793	96	255939	53.806	ug/l	95
13) Acrolein	3.653	56	104439	220.841	ug/l	98
14) Allyl chloride	4.385	41	388163	53.054	ug/l	95
15) Acrylonitrile	5.061	53	288335	263.590	ug/l	99
16) Acetone	3.873	43	306722	309.400	ug/l	96
17) Carbon Disulfide	4.104	76	806178	52.463	ug/l	98
18) Methyl Acetate	4.385	43	151633	46.187	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	688340	53.146	ug/l	98
20) Methylene Chloride	4.616	84	298100	47.615	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	285710	52.555	ug/l	97
22) Diisopropyl ether	6.019	45	860036	52.931	ug/l	99
23) Vinyl Acetate	5.964	43	2459058	274.030	ug/l	99
24) 1,1-Dichloroethane	5.915	63	513990	52.371	ug/l	100
25) 2-Butanone	6.897	43	405113	280.777	ug/l	99
26) 2,2-Dichloropropane	6.890	77	459141	55.810	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	328556	52.011	ug/l	99
28) Bromochloromethane	7.250	49	200406	48.571	ug/l	92
29) Tetrahydrofuran	7.262	42	238399	261.671	ug/l	98
30) Chloroform	7.421	83	521746	51.615	ug/l	95
31) Cyclohexane	7.701	56	470140	52.186	ug/l	99
32) 1,1,1-Trichloroethane	7.622	97	466531	53.408	ug/l	99
36) 1,1-Dichloropropene	7.835	75	391427	55.218	ug/l	99
37) Ethyl Acetate	6.982	43	162014	52.964	ug/l	99
38) Carbon Tetrachloride	7.817	117	415697	55.577	ug/l	98
39) Methylcyclohexane	9.110	83	522205	56.925	ug/l	99
40) Benzene	8.079	78	1183917	54.321	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022838.D
Acq On : 26 Jun 2025 10:07
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 01:23:13 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 06/27/2025
Supervised By :Semsettin Yesilyurt 06/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	96382	51.181	ug/l		97
42) 1,2-Dichloroethane	8.158	62	315659	52.853	ug/l		100
43) Isopropyl Acetate	8.201	43	340233	53.516	ug/l		96
44) Trichloroethene	8.866	130	296233	54.136	ug/l		99
45) 1,2-Dichloropropane	9.140	63	274781	53.869	ug/l		97
46) Dibromomethane	9.231	93	153162	52.894	ug/l		96
47) Bromodichloromethane	9.420	83	401117	53.719	ug/l		99
48) Methyl methacrylate	9.219	41	167209	54.709	ug/l		93
49) 1,4-Dioxane	9.231	88	33487	978.838	ug/l		98
51) 4-Methyl-2-Pentanone	10.000	43	893909	276.686	ug/l		95
52) Toluene	10.170	92	766754	55.764	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	368690	54.879	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	425968	54.683	ug/l		96
55) 1,1,2-Trichloroethane	10.573	97	201347	53.699	ug/l		98
56) Ethyl methacrylate	10.439	69	278542	55.216	ug/l		96
57) 1,3-Dichloropropane	10.719	76	350193	53.531	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	628770	237.953	ug/l		98
59) 2-Hexanone	10.762	43	632583	287.993	ug/l		96
60) Dibromochloromethane	10.914	129	259888	53.660	ug/l		100
61) 1,2-Dibromoethane	11.018	107	188622	53.758	ug/l		96
64) Tetrachloroethene	10.646	164	341651	54.637	ug/l		97
65) Chlorobenzene	11.444	112	798031	54.869	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	266269	54.051	ug/l		99
67) Ethyl Benzene	11.518	91	1450784	56.773	ug/l		98
68) m/p-Xylenes	11.627	106	1130504	114.443	ug/l		100
69) o-Xylene	11.957	106	528318	56.760	ug/l		99
70) Styrene	11.969	104	892986	57.275	ug/l		99
71) Bromoform	12.133	173	145434	53.020	ug/l	#	99
73) Isopropylbenzene	12.255	105	1395939	57.530	ug/l		99
74) N-amyl acetate	12.066	43	314738	57.788	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	209366	53.537	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	165497m	49.409	ug/l		
77) Bromobenzene	12.530	156	303301	55.147	ug/l		98
78) n-propylbenzene	12.597	91	1691562	57.741	ug/l		99
79) 2-Chlorotoluene	12.676	91	926101	55.952	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	1127520	57.562	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	73835	55.690	ug/l		100
82) 4-Chlorotoluene	12.774	91	966445	55.588	ug/l		99
83) tert-Butylbenzene	12.999	119	1003847	58.110	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	1119232	57.071	ug/l		99
85) sec-Butylbenzene	13.176	105	1510693	58.122	ug/l		99
86) p-Isopropyltoluene	13.292	119	1248531	57.724	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	608907	55.125	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	595323	54.257	ug/l		100
89) n-Butylbenzene	13.615	91	1174277	57.717	ug/l		99
90) Hexachloroethane	13.877	117	233648	54.236	ug/l		95
91) 1,2-Dichlorobenzene	13.658	146	526588	54.097	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	33111	49.928	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	280703	51.074	ug/l		98
94) Hexachlorobutadiene	15.023	225	156322	50.299	ug/l		98
95) Naphthalene	15.139	128	518379	52.158	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	233613	49.190	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022838.D
Acq On : 26 Jun 2025 10:07
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/27/2025
Supervised By :Semsettin Yesilyurt 06/27/2025

Quant Time: Jun 27 01:23:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

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

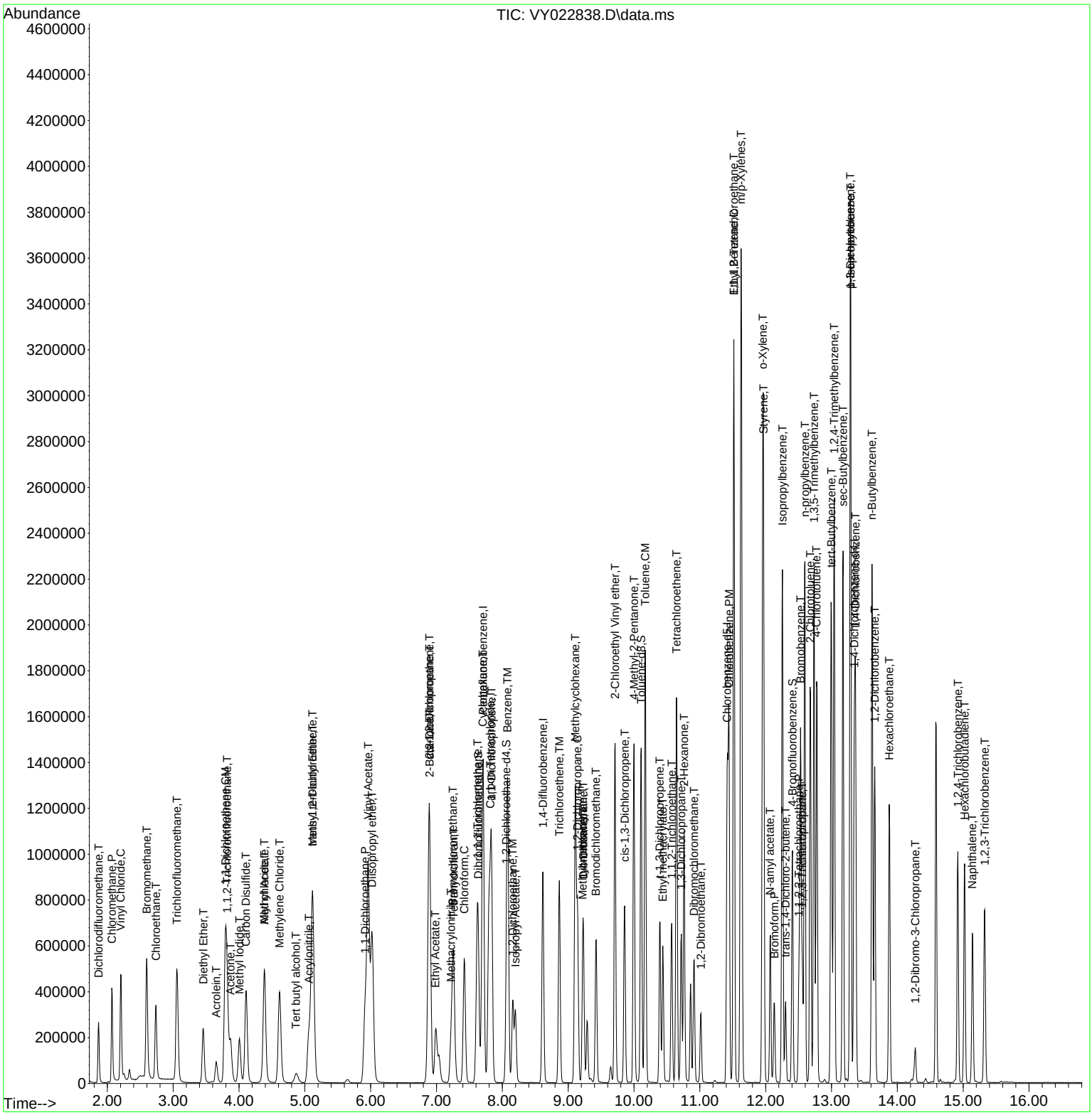
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022838.D
Acq On : 26 Jun 2025 10:07
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 01:23:13 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 06/27/2025
Supervised By :Semsettin Yesilyurt 06/27/2025



Sample Results: **VY022838.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022838.D
Acq On : 26 Jun 2025 10:07
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 01:23:13 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	101	0.00
2	T	Dichlorodifluoromethane	0.428	0.440	-2.8	105	0.00
3	P	Chloromethane	0.816	0.752	7.8	96	0.00
4	C	Vinyl Chloride	1.020	0.980	3.9#	94	0.00
5	T	Bromomethane	0.802	0.762	5.0	100	0.00
6	T	Chloroethane	0.686	0.667	2.8	97	0.00
7	T	Trichlorofluoromethane	1.129	1.082	4.2	93	0.00
8	T	Diethyl Ether	0.279	0.288	-3.2	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.516	0.546	-5.8	107	0.00
10	T	Methyl Iodide	0.562	0.642	-14.2	103	0.00
11	T	Tert butyl alcohol	0.037	0.037	0.0	96	-0.02
12	CM	1,1-Dichloroethene	0.506	0.545	-7.7#	107	0.00
13	T	Acrolein	0.050	0.044	12.0	91	0.00
14	T	Allyl chloride	0.778	0.826	-6.2	104	0.00
15	T	Acrylonitrile	0.116	0.123	-6.0	102	0.00
16	T	Acetone	0.105	0.131	-24.8	138	0.00
17	T	Carbon Disulfide	1.635	1.715	-4.9	104	0.00
18	T	Methyl Acetate	0.349	0.323	7.4	93	-0.01
19	T	Methyl tert-butyl Ether	1.378	1.465	-6.3	103	-0.01
20	T	Methylene Chloride	0.666	0.634	4.8	108	0.00
21	T	trans-1,2-Dichloroethene	0.578	0.608	-5.2	103	0.00
22	T	Diisopropyl ether	1.729	1.830	-5.8	103	0.00
23	T	Vinyl Acetate	0.955	1.047	-9.6	104	0.00
24	P	1,1-Dichloroethane	1.044	1.094	-4.8	102	0.00
25	T	2-Butanone	0.154	0.172	-11.7	113	0.00
26	T	2,2-Dichloropropane	0.875	0.977	-11.7	111	0.00
27	T	cis-1,2-Dichloroethene	0.672	0.699	-4.0	103	0.00
28	T	Bromochloromethane	0.439	0.426	3.0	94	0.00
29	T	Tetrahydrofuran	0.097	0.101	-4.1	100	0.00
30	C	Chloroform	1.076	1.110	-3.2#	102	0.00
31	T	Cyclohexane	0.959	1.000	-4.3	107	0.00
32	T	1,1,1-Trichloroethane	0.929	0.993	-6.9	105	0.00
33	S	1,2-Dichloroethane-d4	0.558	0.541	3.0	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
35	S	Dibromofluoromethane	0.304	0.302	0.7	97	0.00
36	T	1,1-Dichloropropene	0.461	0.509	-10.4	106	0.00
37	T	Ethyl Acetate	0.199	0.211	-6.0	100	-0.01
38	T	Carbon Tetrachloride	0.486	0.541	-11.3	108	0.00
39	T	Methylcyclohexane	0.596	0.679	-13.9	108	0.00
40	TM	Benzene	1.417	1.540	-8.7	103	0.00
41	T	Methacrylonitrile	0.122	0.125	-2.5	103	-0.01
42	TM	1,2-Dichloroethane	0.388	0.410	-5.7	101	0.00
43	T	Isopropyl Acetate	0.413	0.442	-7.0	99	0.00
44	TM	Trichloroethene	0.356	0.385	-8.1	101	0.00
45	C	1,2-Dichloropropane	0.332	0.357	-7.5#	103	0.00
46	T	Dibromomethane	0.188	0.199	-5.9	102	0.00
47	T	Bromodichloromethane	0.485	0.522	-7.6	102	0.00
48	T	Methyl methacrylate	0.199	0.217	-9.0	99	0.00

Sample Results: **VY022838.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022838.D
Acq On : 26 Jun 2025 10:07
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 01:23:13 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	92	-0.01
50	S	Toluene-d8	1.207	1.223	-1.3	99	0.00
51	T	4-Methyl-2-Pentanone	0.210	0.232	-10.5	101	0.00
52	CM	Toluene	0.894	0.997	-11.5#	105	0.00
53	T	t-1,3-Dichloropropene	0.437	0.479	-9.6	104	0.00
54	T	cis-1,3-Dichloropropene	0.506	0.554	-9.5	104	0.00
55	T	1,1,2-Trichloroethane	0.244	0.262	-7.4	101	0.00
56	T	Ethyl methacrylate	0.328	0.362	-10.4	100	0.00
57	T	1,3-Dichloropropane	0.425	0.455	-7.1	102	0.00
58	T	2-Chloroethyl Vinyl ether	0.145	0.164	-13.1	95	0.00
59	T	2-Hexanone	0.143	0.165	-15.4	106	0.00
60	T	Dibromochloromethane	0.315	0.338	-7.3	101	0.00
61	T	1,2-Dibromoethane	0.228	0.245	-7.5	101	0.00
62	S	4-Bromofluorobenzene	0.388	0.390	-0.5	99	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	T	Tetrachloroethene	0.472	0.516	-9.3	97	0.00
65	PM	Chlorobenzene	1.099	1.206	-9.7	104	0.00
66	T	1,1,1,2-Tetrachloroethane	0.372	0.402	-8.1	101	0.00
67	C	Ethyl Benzene	1.930	2.192	-13.6#	105	0.00
68	T	m/p-Xylenes	0.746	0.854	-14.5	106	0.00
69	T	o-Xylene	0.703	0.798	-13.5	105	0.00
70	T	Styrene	1.178	1.349	-14.5	105	0.00
71	P	Bromoform	0.207	0.220	-6.3	100	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
73	T	Isopropylbenzene	3.698	4.255	-15.1	107	0.00
74	T	N-amyl acetate	0.830	0.959	-15.5	102	0.00
75	P	1,1,2,2-Tetrachloroethane	0.596	0.638	-7.0	107	0.00
76	T	1,2,3-Trichloropropane	0.510	0.504	1.2	94	0.00
77	T	Bromobenzene	0.838	0.924	-10.3	103	0.00
78	T	n-propylbenzene	4.465	5.156	-15.5	108	0.00
79	T	2-Chlorotoluene	2.522	2.823	-11.9	104	0.00
80	T	1,3,5-Trimethylbenzene	2.985	3.437	-15.1	107	0.00
81	T	trans-1,4-Dichloro-2-butene	0.202	0.225	-11.4	108	0.00
82	T	4-Chlorotoluene	2.650	2.946	-11.2	104	0.00
83	T	tert-Butylbenzene	2.633	3.060	-16.2	107	0.00
84	T	1,2,4-Trimethylbenzene	2.989	3.411	-14.1	105	0.00
85	T	sec-Butylbenzene	3.961	4.604	-16.2	107	0.00
86	T	p-Isopropyltoluene	3.296	3.805	-15.4	106	0.00
87	T	1,3-Dichlorobenzene	1.683	1.856	-10.3	103	0.00
88	T	1,4-Dichlorobenzene	1.672	1.815	-8.6	102	0.00
89	T	n-Butylbenzene	3.101	3.579	-15.4	106	0.00
90	T	Hexachloroethane	0.657	0.712	-8.4	101	0.00
91	T	1,2-Dichlorobenzene	1.483	1.605	-8.2	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.101	0.101	0.0	93	0.00
93	T	1,2,4-Trichlorobenzene	0.838	0.856	-2.1	97	0.00
94	T	Hexachlorobutadiene	0.474	0.476	-0.4	98	0.00
95	T	Naphthalene	1.515	1.580	-4.3	94	0.00

Sample Results: **VY022838.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022838.D
Acq On : 26 Jun 2025 10:07
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 01:23:13 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	0.712	1.7	93	0.00

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

Sample Results: **VY022838.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022838.D
Acq On : 26 Jun 2025 10:07
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 01:23:13 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	101	0.00
2	T	Dichlorodifluoromethane	50.000	51.404	-2.8	105	0.00
3	P	Chloromethane	50.000	46.043	7.9	96	0.00
4	C	Vinyl Chloride	50.000	48.036	3.9#	94	0.00
5	T	Bromomethane	50.000	47.487	5.0	100	0.00
6	T	Chloroethane	50.000	48.606	2.8	97	0.00
7	T	Trichlorofluoromethane	50.000	47.880	4.2	93	0.00
8	T	Diethyl Ether	50.000	51.571	-3.1	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	52.912	-5.8	107	0.00
10	T	Methyl Iodide	50.000	57.101	-14.2	103	0.00
11	T	Tert butyl alcohol	250.000	246.087	1.6	96	-0.02
12	CM	1,1-Dichloroethene	50.000	53.806	-7.6#	107	0.00
13	T	Acrolein	250.000	220.841	11.7	91	0.00
14	T	Allyl chloride	50.000	53.054	-6.1	104	0.00
15	T	Acrylonitrile	250.000	263.590	-5.4	102	0.00
16	T	Acetone	250.000	309.400	-23.8	138	0.00
17	T	Carbon Disulfide	50.000	52.463	-4.9	104	0.00
18	T	Methyl Acetate	50.000	46.187	7.6	93	-0.01
19	T	Methyl tert-butyl Ether	50.000	53.146	-6.3	103	-0.01
20	T	Methylene Chloride	50.000	47.615	4.8	108	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.555	-5.1	103	0.00
22	T	Diisopropyl ether	50.000	52.931	-5.9	103	0.00
23	T	Vinyl Acetate	250.000	274.030	-9.6	104	0.00
24	P	1,1-Dichloroethane	50.000	52.371	-4.7	102	0.00
25	T	2-Butanone	250.000	280.777	-12.3	113	0.00
26	T	2,2-Dichloropropane	50.000	55.810	-11.6	111	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.011	-4.0	103	0.00
28	T	Bromochloromethane	50.000	48.571	2.9	94	0.00
29	T	Tetrahydrofuran	250.000	261.671	-4.7	100	0.00
30	C	Chloroform	50.000	51.615	-3.2#	102	0.00
31	T	Cyclohexane	50.000	52.186	-4.4	107	0.00
32	T	1,1,1-Trichloroethane	50.000	53.408	-6.8	105	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.442	3.1	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	98	0.00
35	S	Dibromofluoromethane	50.000	49.693	0.6	97	0.00
36	T	1,1-Dichloropropene	50.000	55.218	-10.4	106	0.00
37	T	Ethyl Acetate	50.000	52.964	-5.9	100	-0.01
38	T	Carbon Tetrachloride	50.000	55.577	-11.2	108	0.00
39	T	Methylcyclohexane	50.000	56.925	-13.8	108	0.00
40	TM	Benzene	50.000	54.321	-8.6	103	0.00
41	T	Methacrylonitrile	50.000	51.181	-2.4	103	-0.01
42	TM	1,2-Dichloroethane	50.000	52.853	-5.7	101	0.00
43	T	Isopropyl Acetate	50.000	53.516	-7.0	99	0.00
44	TM	Trichloroethene	50.000	54.136	-8.3	101	0.00
45	C	1,2-Dichloropropane	50.000	53.869	-7.7#	103	0.00
46	T	Dibromomethane	50.000	52.894	-5.8	102	0.00
47	T	Bromodichloromethane	50.000	53.719	-7.4	102	0.00
48	T	Methyl methacrylate	50.000	54.709	-9.4	99	0.00

Sample Results: **VY022838.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022838.D
Acq On : 26 Jun 2025 10:07
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 01:23:13 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	978.838	2.1	92	-0.01
50	S	Toluene-d8	50.000	50.666	-1.3	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	276.686	-10.7	101	0.00
52	CM	Toluene	50.000	55.764	-11.5#	105	0.00
53	T	t-1,3-Dichloropropene	50.000	54.879	-9.8	104	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.683	-9.4	104	0.00
55	T	1,1,2-Trichloroethane	50.000	53.699	-7.4	101	0.00
56	T	Ethyl methacrylate	50.000	55.216	-10.4	100	0.00
57	T	1,3-Dichloropropane	50.000	53.531	-7.1	102	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	237.953	4.8	95	0.00
59	T	2-Hexanone	250.000	287.993	-15.2	106	0.00
60	T	Dibromochloromethane	50.000	53.660	-7.3	101	0.00
61	T	1,2-Dibromoethane	50.000	53.758	-7.5	101	0.00
62	S	4-Bromofluorobenzene	50.000	50.302	-0.6	99	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64	T	Tetrachloroethene	50.000	54.637	-9.3	97	0.00
65	PM	Chlorobenzene	50.000	54.869	-9.7	104	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.051	-8.1	101	0.00
67	C	Ethyl Benzene	50.000	56.773	-13.5#	105	0.00
68	T	m/p-Xylenes	100.000	114.443	-14.4	106	0.00
69	T	o-Xylene	50.000	56.760	-13.5	105	0.00
70	T	Styrene	50.000	57.275	-14.5	105	0.00
71	P	Bromoform	50.000	53.020	-6.0	100	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
73	T	Isopropylbenzene	50.000	57.530	-15.1	107	0.00
74	T	N-amyl acetate	50.000	57.788	-15.6	102	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	53.537	-7.1	107	0.00
76	T	1,2,3-Trichloropropane	50.000	49.409	1.2	94	0.00
77	T	Bromobenzene	50.000	55.147	-10.3	103	0.00
78	T	n-propylbenzene	50.000	57.741	-15.5	108	0.00
79	T	2-Chlorotoluene	50.000	55.952	-11.9	104	0.00
80	T	1,3,5-Trimethylbenzene	50.000	57.562	-15.1	107	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	55.690	-11.4	108	0.00
82	T	4-Chlorotoluene	50.000	55.588	-11.2	104	0.00
83	T	tert-Butylbenzene	50.000	58.110	-16.2	107	0.00
84	T	1,2,4-Trimethylbenzene	50.000	57.071	-14.1	105	0.00
85	T	sec-Butylbenzene	50.000	58.122	-16.2	107	0.00
86	T	p-Isopropyltoluene	50.000	57.724	-15.4	106	0.00
87	T	1,3-Dichlorobenzene	50.000	55.125	-10.3	103	0.00
88	T	1,4-Dichlorobenzene	50.000	54.257	-8.5	102	0.00
89	T	n-Butylbenzene	50.000	57.717	-15.4	106	0.00
90	T	Hexachloroethane	50.000	54.236	-8.5	101	0.00
91	T	1,2-Dichlorobenzene	50.000	54.097	-8.2	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.928	0.1	93	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.074	-2.1	97	0.00
94	T	Hexachlorobutadiene	50.000	50.299	-0.6	98	0.00
95	T	Naphthalene	50.000	52.158	-4.3	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022838.D
Acq On : 26 Jun 2025 10:07
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 01:23:13 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	49.190	1.6	93	0.00

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

QC SAMPLE DATA

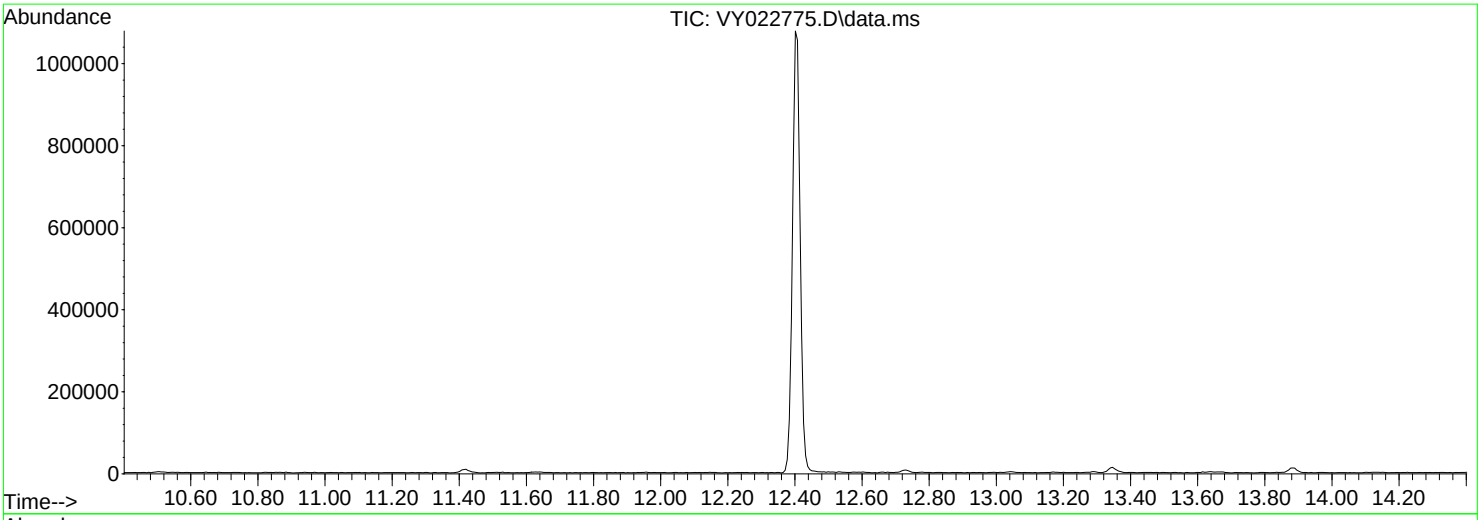
Sample Results: **VY022775.D**

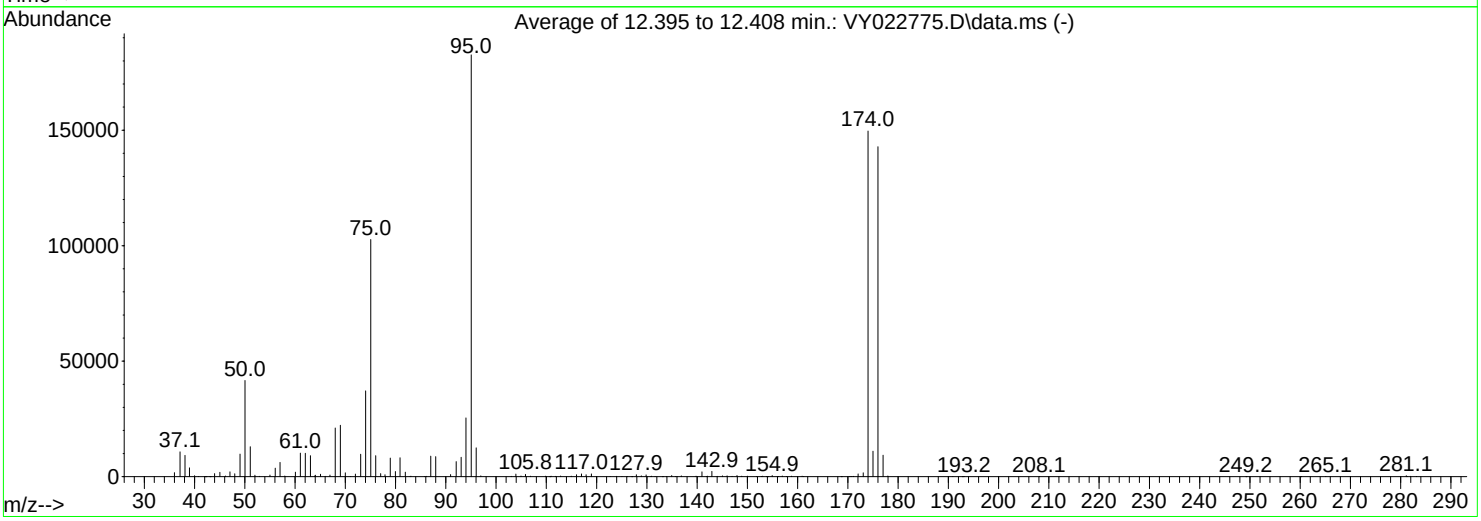
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022775.D
Acq On : 23 Jun 2025 10:17
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

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

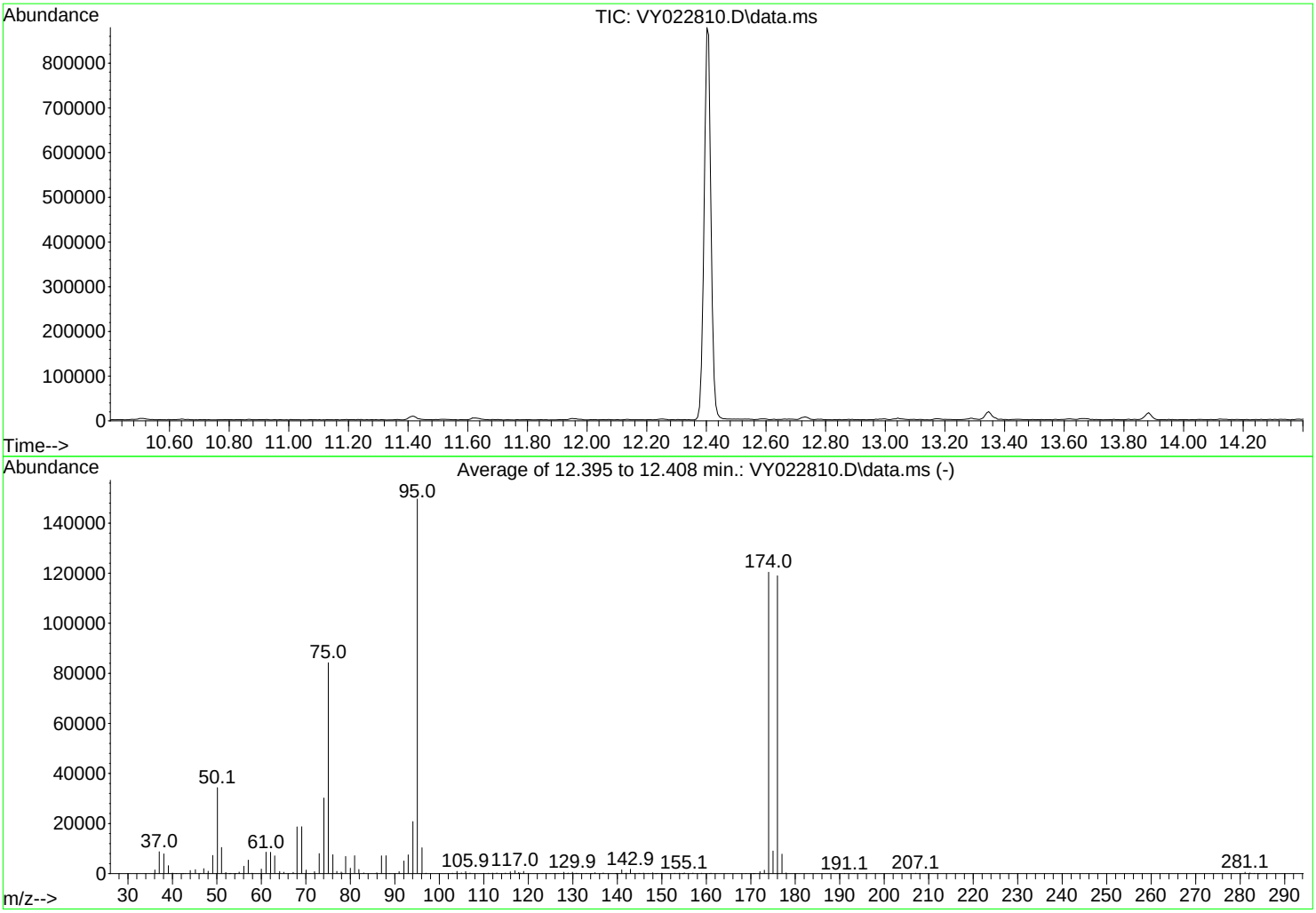
Sample Results: **VY022810.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022810.D
Acq On : 25 Jun 2025 08:41
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	23.0	34373	PASS
75	95	30	60	56.3	84245	PASS
95	95	100	100	100.0	149648	PASS
96	95	5	9	6.9	10360	PASS
173	174	0.00	2	1.2	1391	PASS
174	95	50	100	80.5	120411	PASS
175	174	5	9	7.5	9006	PASS
176	174	95	101	98.8	119011	PASS
177	176	5	9	6.5	7784	PASS

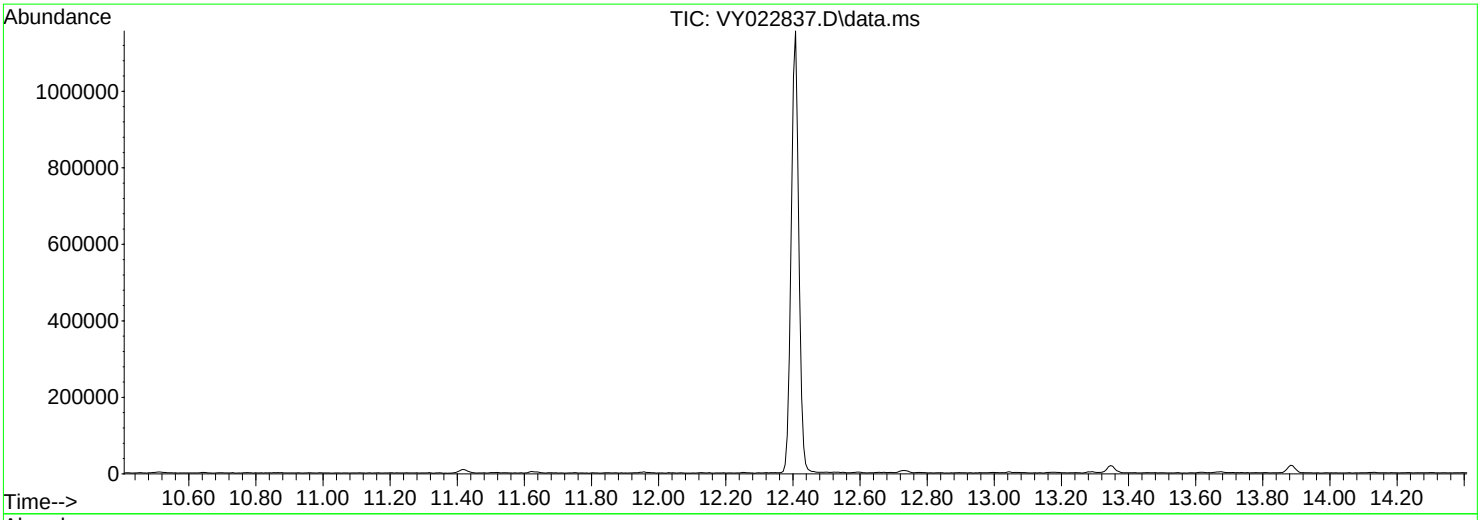
Sample Results: **VY022837.D**

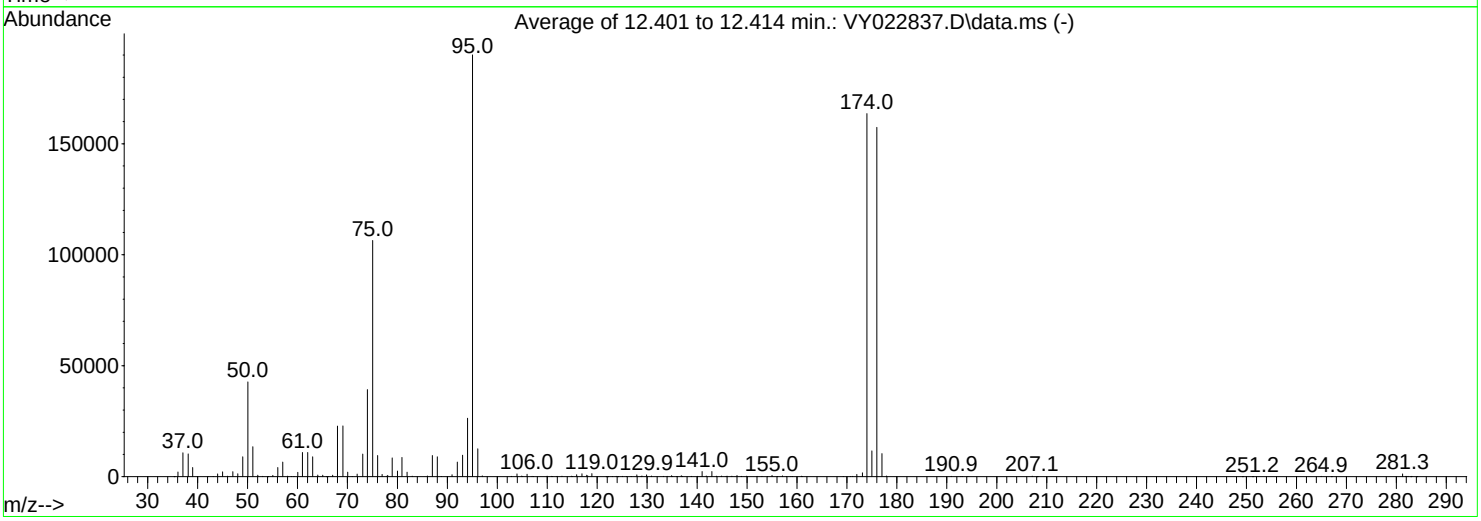
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022837.D
Acq On : 26 Jun 2025 08:22
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

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	22.5	42709	PASS
75	95	30	60	56.0	106432	PASS
95	95	100	100	100.0	190080	PASS
96	95	5	9	6.6	12523	PASS
173	174	0.00	2	1.1	1740	PASS
174	95	50	100	86.1	163584	PASS
175	174	5	9	7.1	11621	PASS
176	174	95	101	96.2	157440	PASS
177	176	5	9	6.6	10420	PASS

Raw Data: **VY022812.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:	VY0625SBL01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBL01	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
VY022812.D	1		06/25/25 09:46	VY062525

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: **VY022812.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:	VY0625SBL01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBL01	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
VY022812.D	1		06/25/25 09:46	VY062525

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	48.2		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		17 - 146	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	322000	7.707			
540-36-3	1,4-Difluorobenzene	582000	8.616			
3114-55-4	Chlorobenzene-d5	555000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	249000	13.346			

Raw Data: **VY022812.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:	VY0625SBL01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBL01	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
VY022812.D	1		06/25/25 09:46	VY062525

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\VY062525\
Data File : VY022812.D
Acq On : 25 Jun 2025 09:46
Operator : SY/MD
Sample : VY0625SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBL01

Quant Time: Jun 26 01:21:33 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	322245	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	582244	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	555259	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	248657	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	173470	48.232	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.460%			
35) Dibromofluoromethane	7.634	113	176319	49.795	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.580%			
50) Toluene-d8	10.103	98	692371	49.276	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.560%			
62) 4-Bromofluorobenzene	12.401	95	240647	53.277	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.560%			

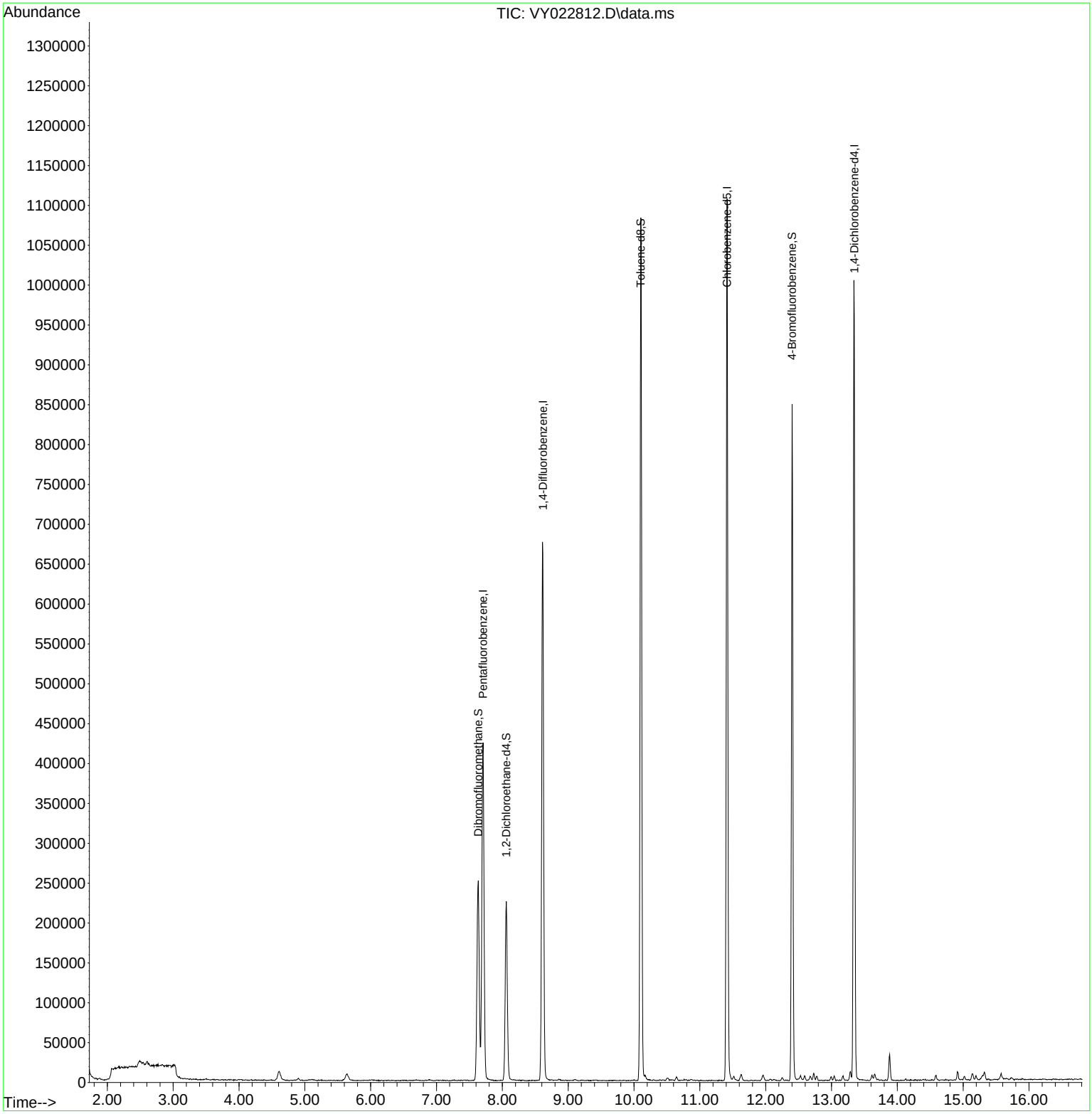
Target Compounds Qvalue

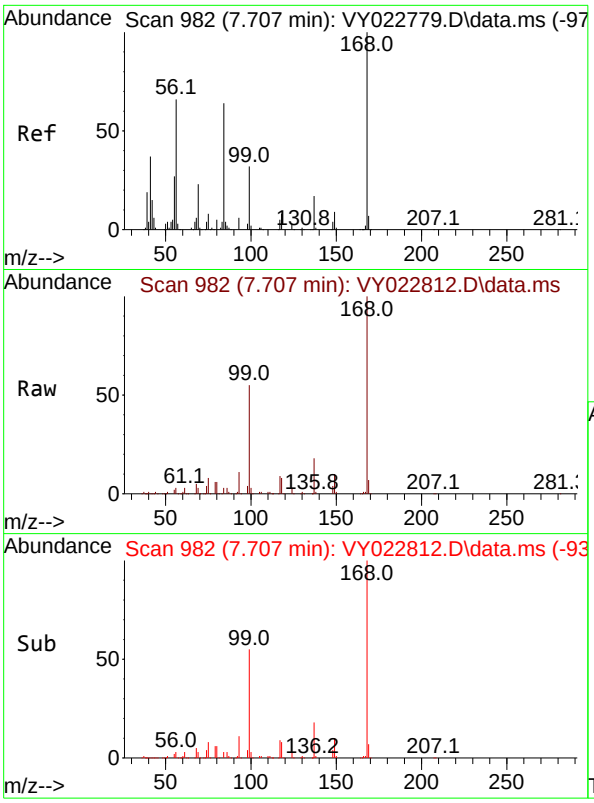
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022812.D
Acq On : 25 Jun 2025 09:46
Operator : SY/MD
Sample : VY0625SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBL01

Quant Time: Jun 26 01:21:33 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



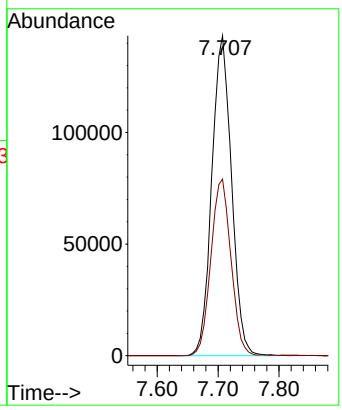


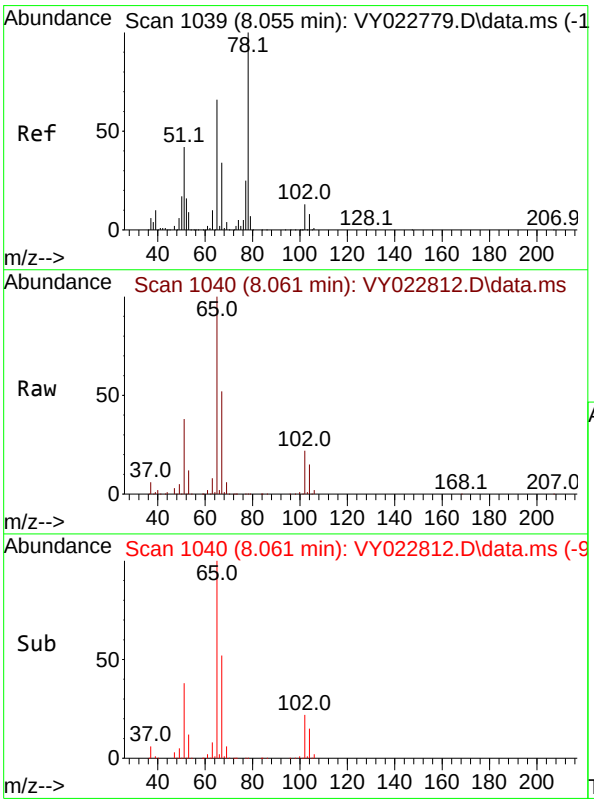
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022812.D
Acq: 25 Jun 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBL01

Tgt Ion:168 Resp: 322245

Ion	Ratio	Lower	Upper
168	100		
99	55.2	44.3	66.5

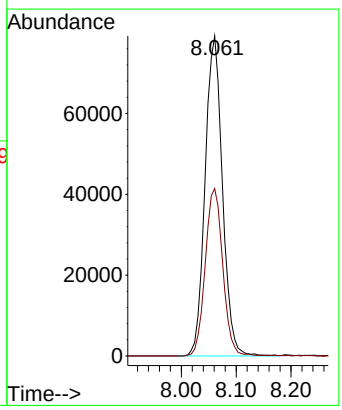


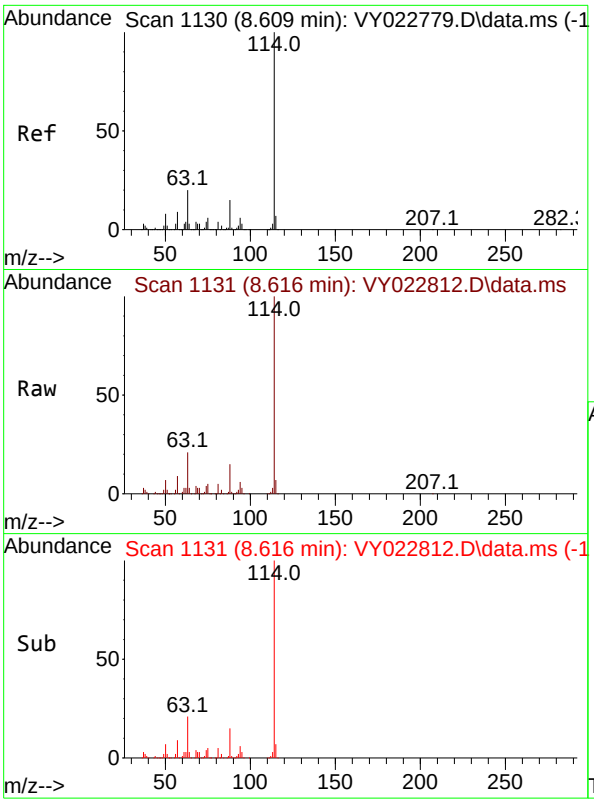


#33
1,2-Dichloroethane-d4
Concen: 48.232 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022812.D
Acq: 25 Jun 2025 09:46

Tgt Ion: 65 Resp: 173470

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	103.4



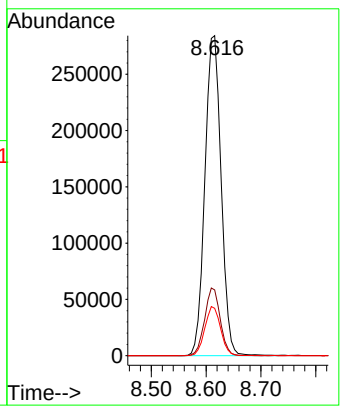


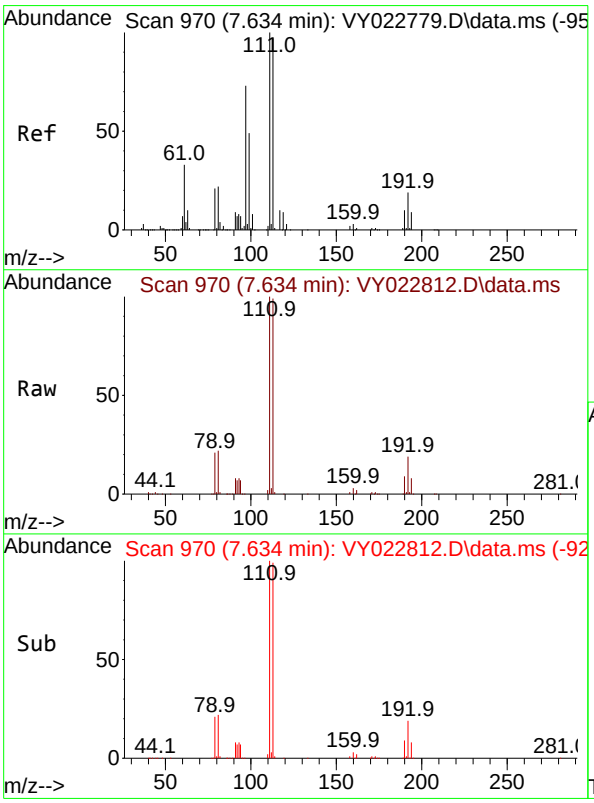
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022812.D
Acq: 25 Jun 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBL01

Tgt Ion:114 Resp: 582244

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	40.8
88	14.8	0.0	27.8

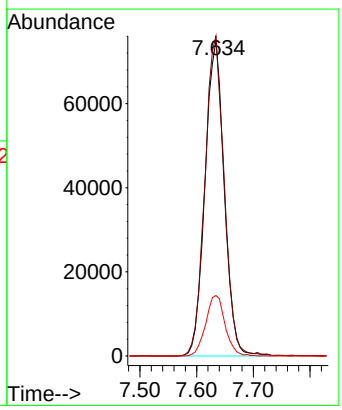


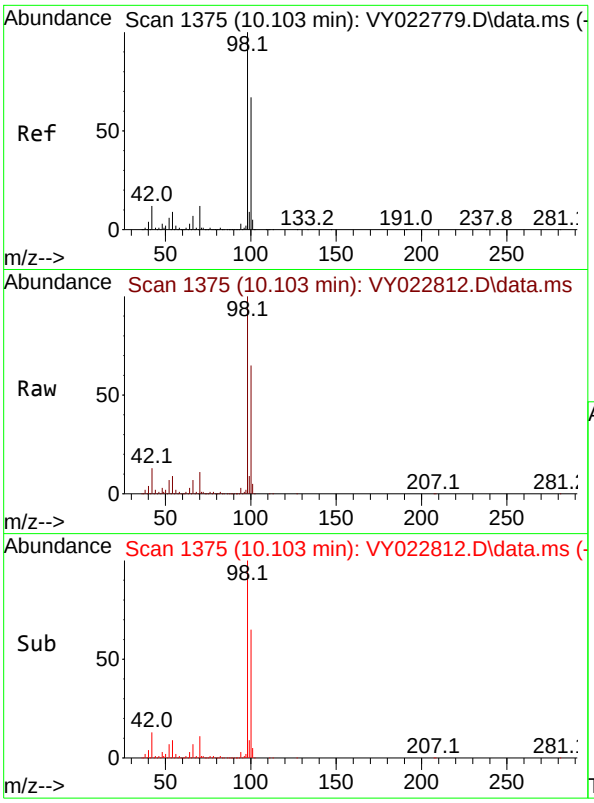


#35
Dibromofluoromethane
Concen: 49.795 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022812.D
Acq: 25 Jun 2025 09:46

Tgt Ion:113 Resp: 176319

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.1	121.7
192	19.3	14.2	21.2



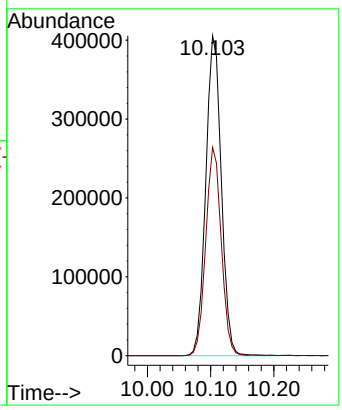


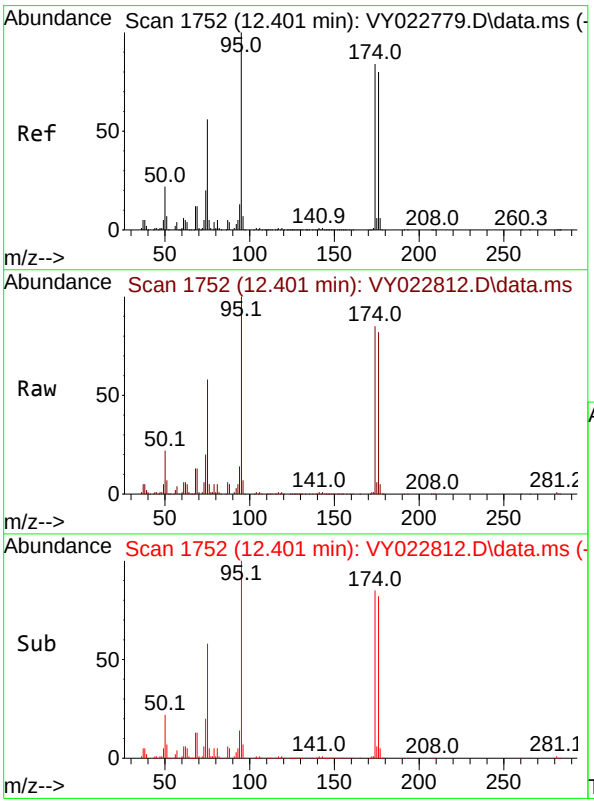
#50
Toluene-d8
Concen: 49.276 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022812.D
Acq: 25 Jun 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBL01

Tgt Ion: 98 Resp: 692371

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.4	77.0

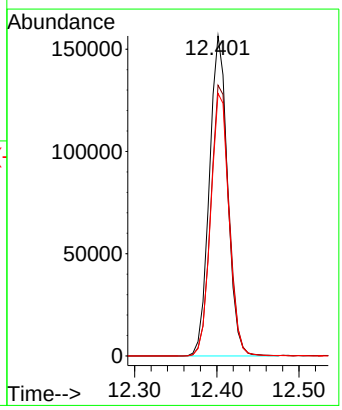


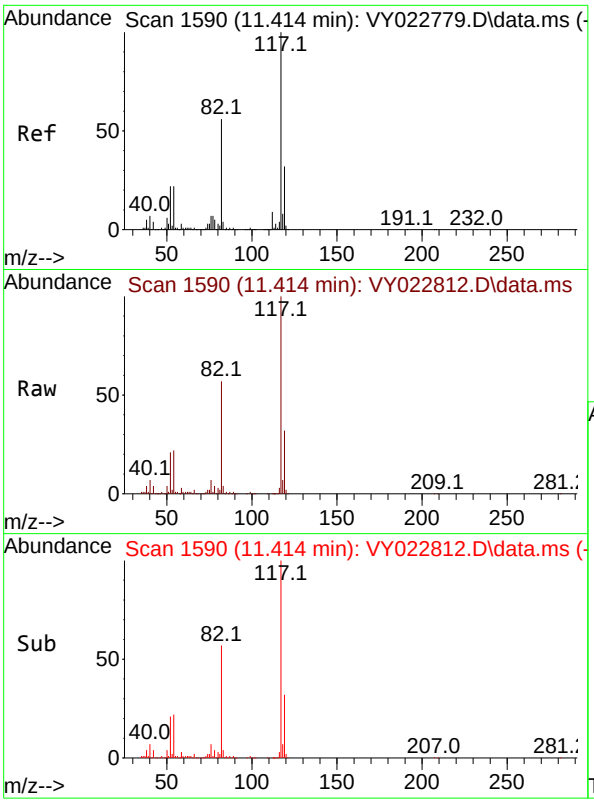


#62
4-Bromofluorobenzene
Concen: 53.277 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022812.D
Acq: 25 Jun 2025 09:46

Tgt Ion: 95 Resp: 240647

Ion	Ratio	Lower	Upper
95	100		
174	85.5	0.0	170.0
176	82.5	0.0	166.2



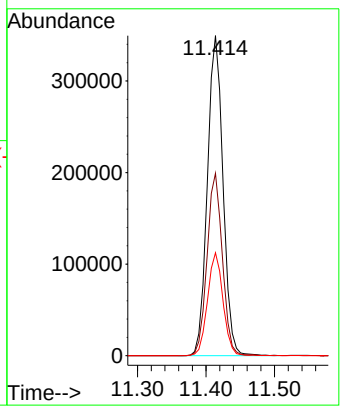


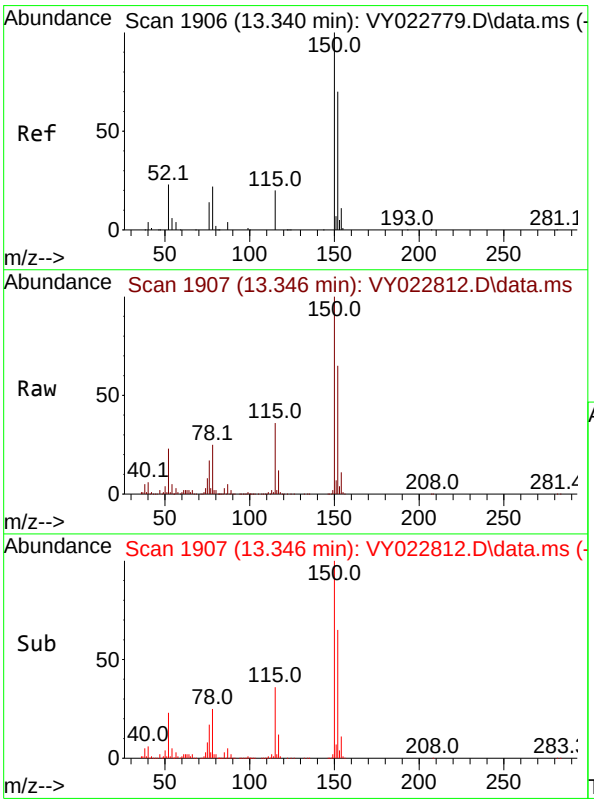
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022812.D
Acq: 25 Jun 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBL01

Tgt Ion:117 Resp: 555259

Ion	Ratio	Lower	Upper
117	100		
82	57.0	44.6	66.8
119	32.2	25.4	38.0

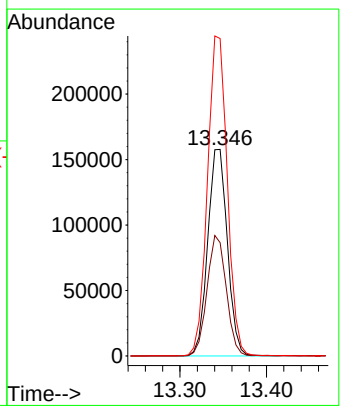




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022812.D
Acq: 25 Jun 2025 09:46

Tgt Ion:152 Resp: 248657

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.9	86.7
150	155.7	0.0	349.6



Sample Results: **VY022812.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022812.D
Acq On : 25 Jun 2025 09:46
Operator : SY/MD
Sample : VY0625SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBL01

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: VY022812.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.062	49	56	58	rBV2	13481	22667	1.22%	0.225%
2	4.610	464	474	482	rBV3	11348	36235	1.95%	0.359%
3	5.640	634	643	652	rBV4	7671	22065	1.19%	0.219%
4	7.634	960	970	975	rBV	250320	589920	31.81%	5.843%
5	7.707	975	982	992	rVB	421203	959575	51.75%	9.505%
6	8.061	1030	1040	1050	rBV	224706	496784	26.79%	4.921%
7	8.609	1121	1130	1147	rBV	675189	1369671	73.86%	13.567%
8	10.103	1367	1375	1385	rBV	1082006	1854355	100.00%	18.368%
9	11.414	1582	1590	1601	rBV	1105650	1760199	94.92%	17.435%
10	12.401	1745	1752	1764	rBV	848646	1316248	70.98%	13.038%
11	13.285	1890	1897	1900	rBV3	11281	19500	1.05%	0.193%
12	13.340	1900	1906	1915	rVB	1001838	1567396	84.53%	15.525%
13	13.883	1989	1995	2001	rBV2	32577	53441	2.88%	0.529%
14	15.322	2219	2231	2237	rBV5	9849	27766	1.50%	0.275%

Sum of corrected areas: 10095822

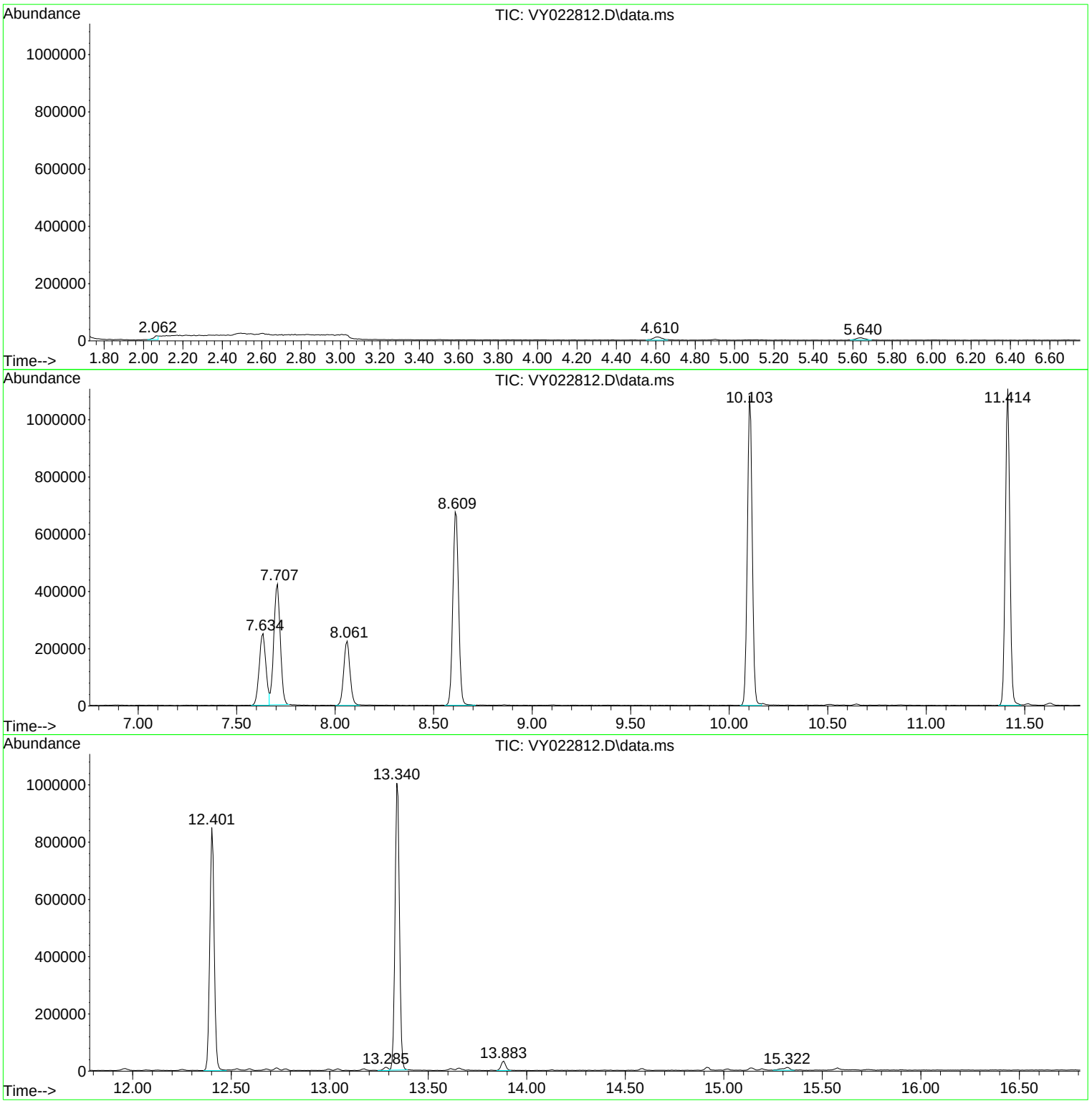
Sample Results: **VY022812.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022812.D
Acq On : 25 Jun 2025 09:46
Operator : SY/MD
Sample : VY0625SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBL01

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: **VY022812.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022812.D
Acq On : 25 Jun 2025 09:46
Operator : SY/MD
Sample : VY0625SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBL01

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\VY062525\
Data File : VY022812.D
Acq On : 25 Jun 2025 09:46
Operator : SY/MD
Sample : VY0625SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBL01

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: **VY022839.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:	VY0626SBL01	SDG No.:	Q2413
Lab Sample ID:	VY0626SBL01	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
VY022839.D	1		06/26/25 10:39	VY062625

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:	VY0626SBL01	SDG No.:	Q2413
Lab Sample ID:	VY0626SBL01	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
VY022839.D	1		06/26/25 10:39	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.9		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	49.8		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		17 - 146	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	329000	7.713			
540-36-3	1,4-Difluorobenzene	605000	8.616			
3114-55-4	Chlorobenzene-d5	572000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	249000	13.347			

Raw Data: **VY022839.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:	VY0626SBL01	SDG No.:	Q2413
Lab Sample ID:	VY0626SBL01	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
VY022839.D	1		06/26/25 10:39	VY062625

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\VY062625\
Data File : VY022839.D
Acq On : 26 Jun 2025 10:39
Operator : SY/MD
Sample : VY0626SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBL01

Quant Time: Jun 27 01:24:13 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

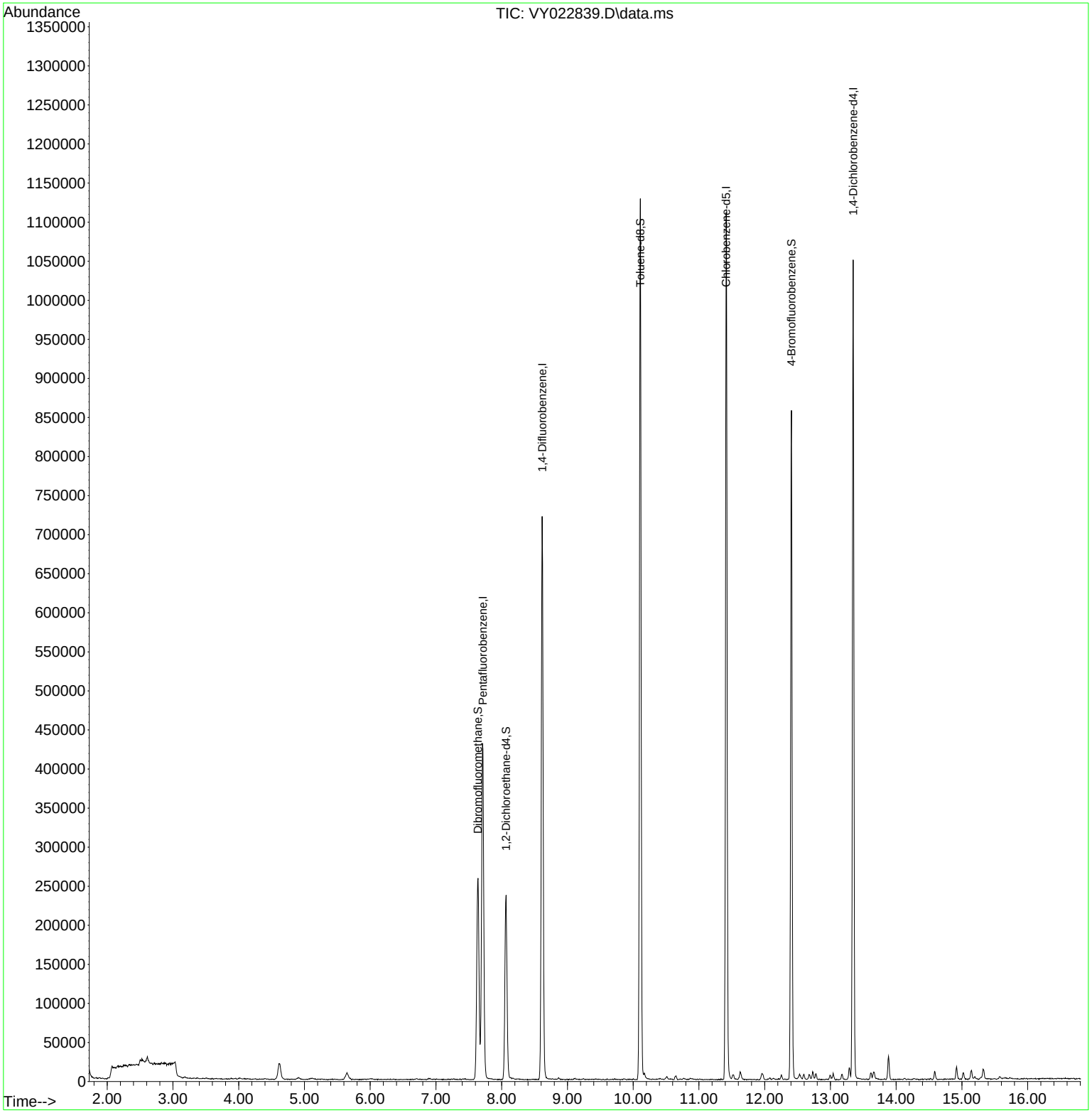
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	328943	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	604959	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	571725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	249132	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	183306	49.929	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.860%			
35) Dibromofluoromethane	7.640	113	184961	50.274	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.540%			
50) Toluene-d8	10.109	98	727504	49.832	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.660%			
62) 4-Bromofluorobenzene	12.408	95	251824	53.658	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 107.320%			
Target Compounds						Qvalue

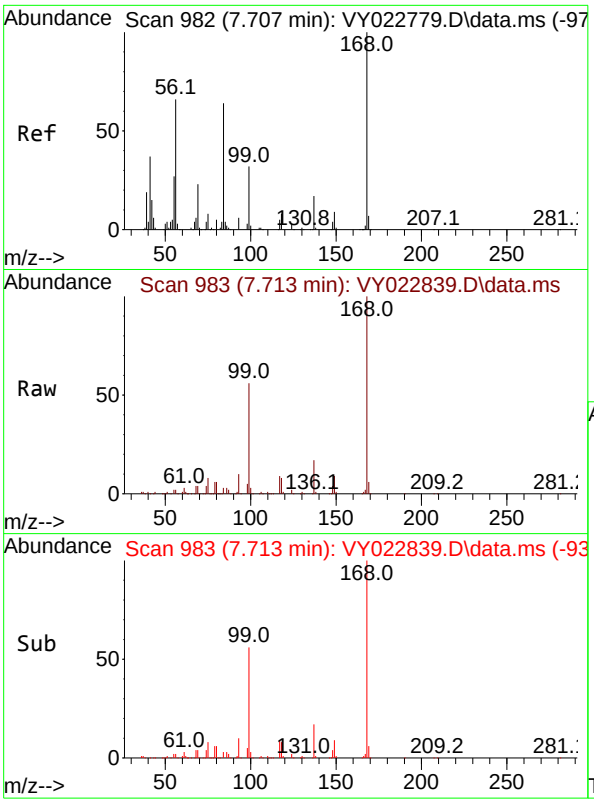
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022839.D
Acq On : 26 Jun 2025 10:39
Operator : SY/MD
Sample : VY0626SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBL01

Quant Time: Jun 27 01:24:13 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



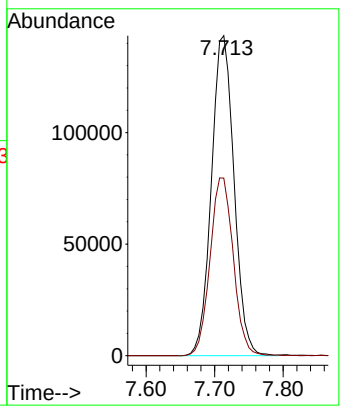


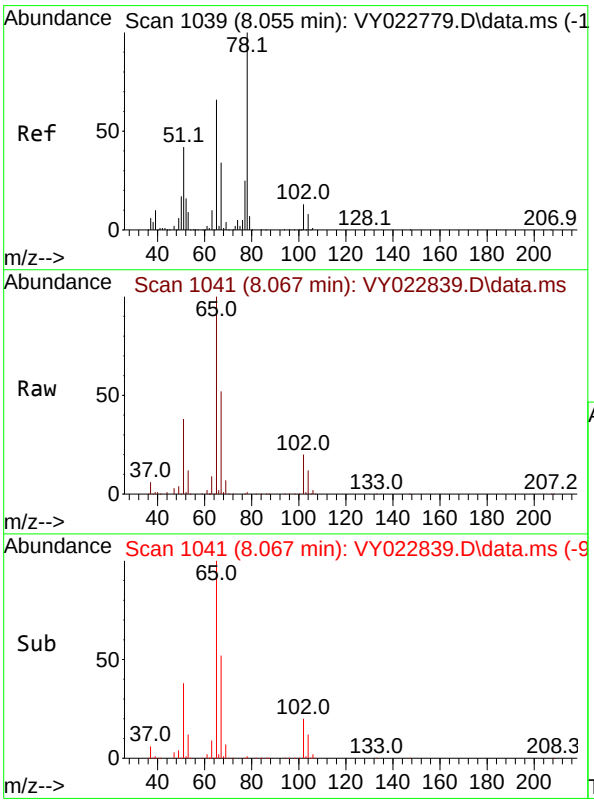
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022839.D
Acq: 26 Jun 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBL01

Tgt Ion:168 Resp: 328943

Ion	Ratio	Lower	Upper
168	100		
99	55.5	44.3	66.5

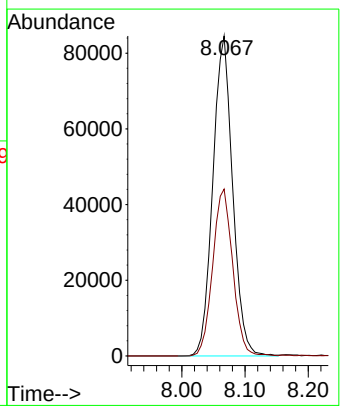


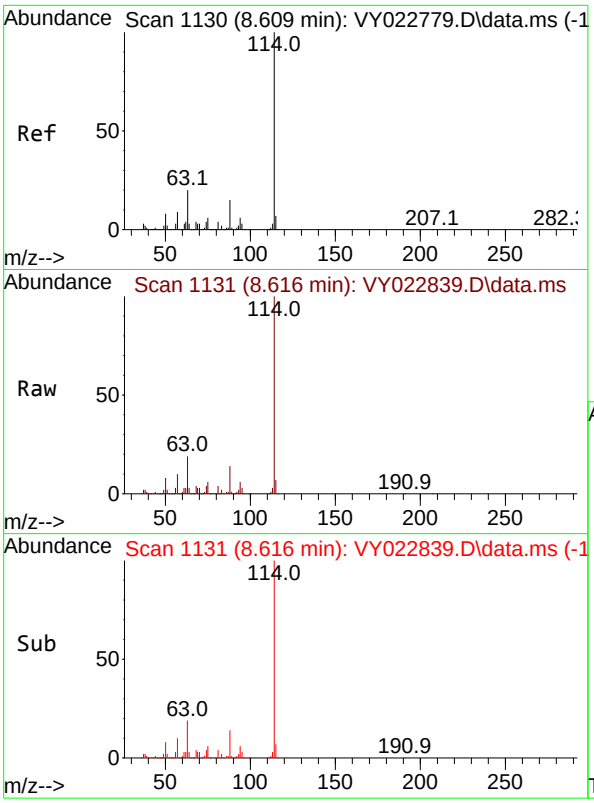


#33
1,2-Dichloroethane-d4
Concen: 49.929 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022839.D
Acq: 26 Jun 2025 10:39

Tgt Ion: 65 Resp: 183306

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.4



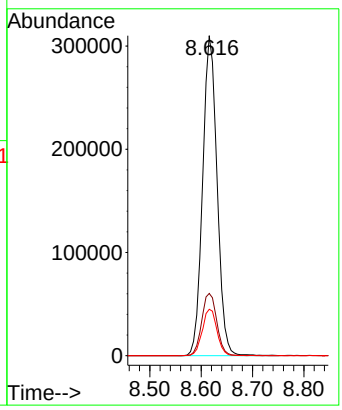


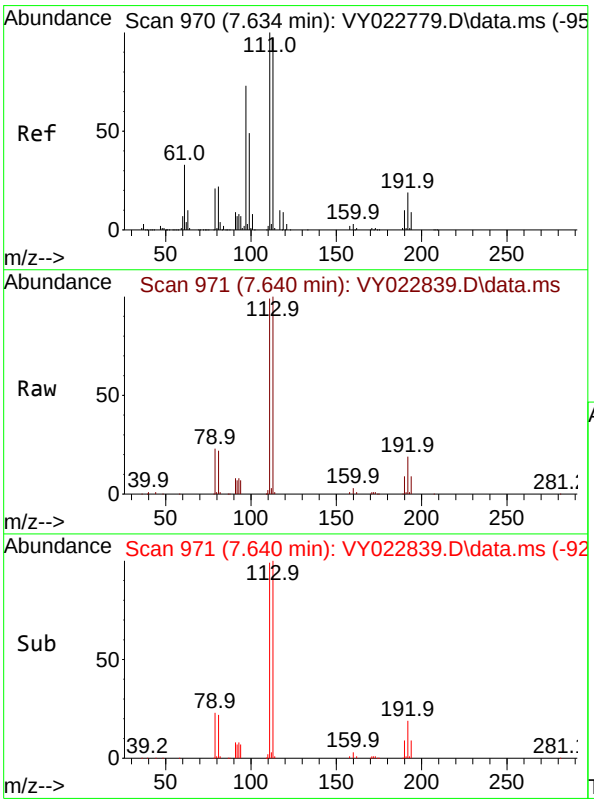
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022839.D
Acq: 26 Jun 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBL01

Tgt Ion:114 Resp: 604959

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	40.8
88	14.5	0.0	27.8

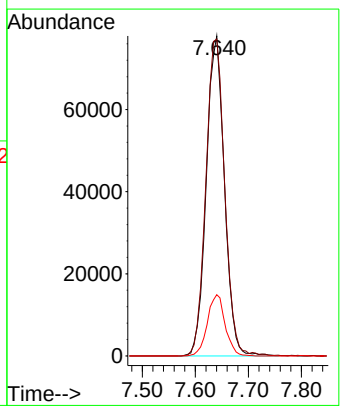


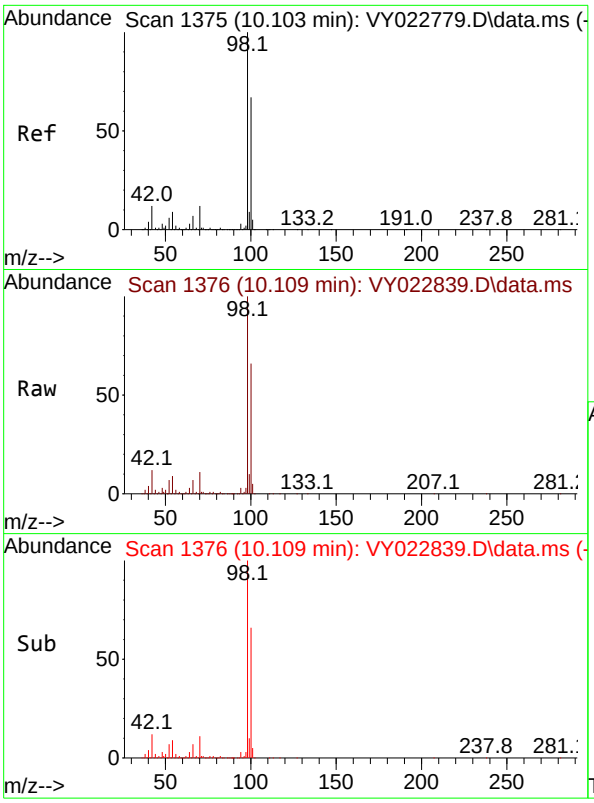


#35
Dibromofluoromethane
Concen: 50.274 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY022839.D
Acq: 26 Jun 2025 10:39

Tgt Ion:113 Resp: 184961

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.1	121.7
192	18.8	14.2	21.2



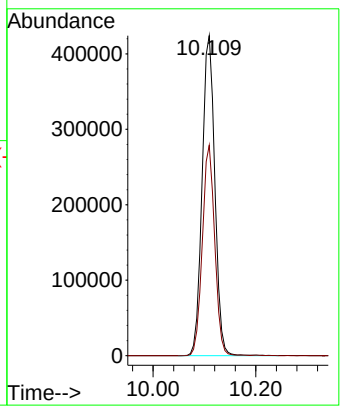


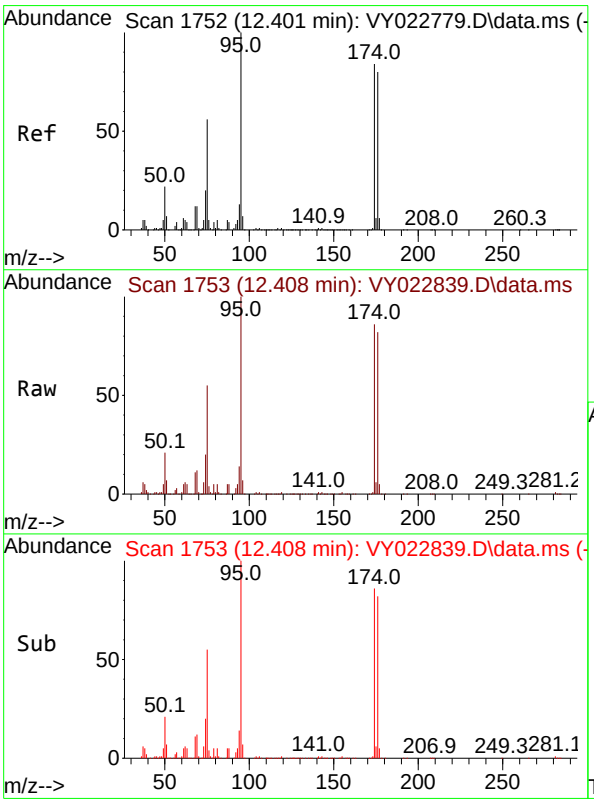
#50
Toluene-d8
Concen: 49.832 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022839.D
Acq: 26 Jun 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBL01

Tgt Ion: 98 Resp: 727504

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.4	77.0

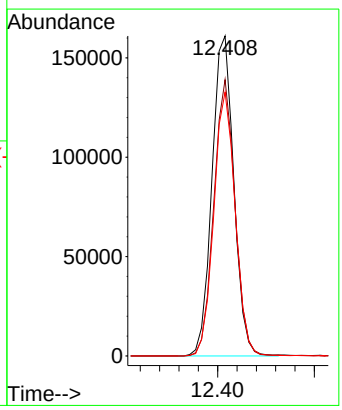


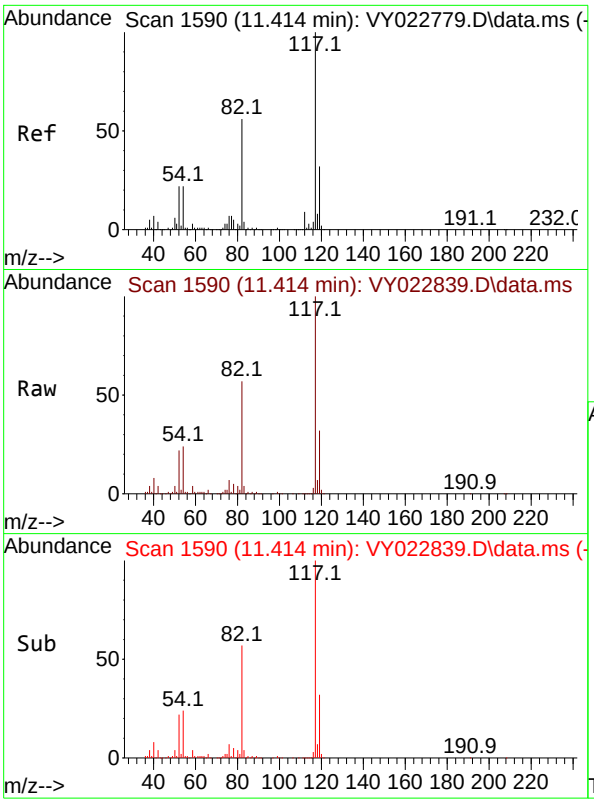


#62
4-Bromofluorobenzene
Concen: 53.658 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022839.D
Acq: 26 Jun 2025 10:39

Tgt Ion: 95 Resp: 251824

Ion	Ratio	Lower	Upper
95	100		
174	83.9	0.0	170.0
176	81.2	0.0	166.2



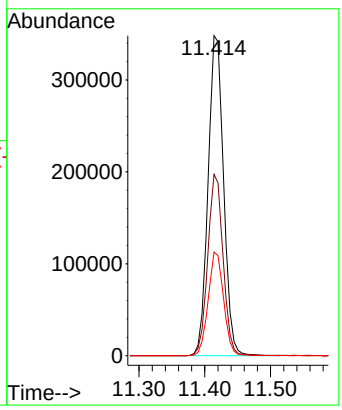


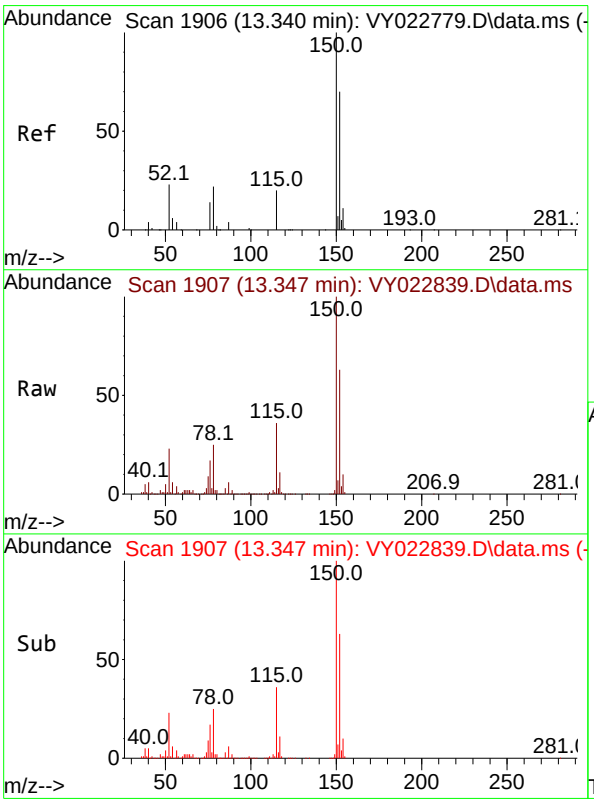
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022839.D
Acq: 26 Jun 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBL01

Tgt Ion:117 Resp: 571725

Ion	Ratio	Lower	Upper
117	100		
82	56.6	44.6	66.8
119	32.4	25.4	38.0

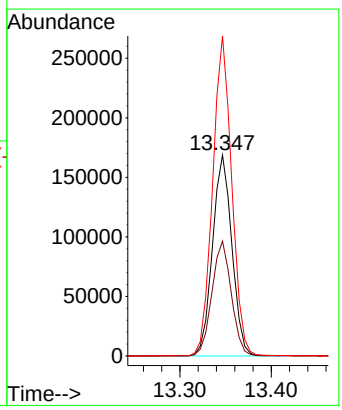




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022839.D
Acq: 26 Jun 2025 10:39

Tgt Ion:152 Resp: 249132

Ion	Ratio	Lower	Upper
152	100		
115	57.2	28.9	86.7
150	156.6	0.0	349.6



Sample Results: **VY022839.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022839.D
Acq On : 26 Jun 2025 10:39
Operator : SY/MD
Sample : VY0626SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBL01

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: VY022839.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.074	50	58	60	rBV2	15477	30809	1.59%	0.293%
2	4.610	464	474	489	rVB3	20187	65338	3.37%	0.622%
3	5.647	634	644	652	rBV6	8934	27226	1.41%	0.259%
4	7.640	959	971	976	rBV	257940	622483	32.13%	5.924%
5	7.707	976	982	997	rVB	429709	998588	51.54%	9.504%
6	8.067	1031	1041	1055	rBV	236352	534917	27.61%	5.091%
7	8.616	1122	1131	1145	rBV	721006	1422259	73.40%	13.536%
8	10.109	1368	1376	1384	rBV	1127710	1937686	100.00%	18.441%
9	11.414	1583	1590	1603	rBV	1109681	1822090	94.03%	17.341%
10	12.408	1746	1753	1764	rBV	855989	1349727	69.66%	12.845%
11	13.286	1892	1897	1901	rBV4	14640	24702	1.27%	0.235%
12	13.347	1901	1907	1918	rVB	1048060	1578025	81.44%	15.018%
13	13.883	1989	1995	2004	rVB2	29766	48589	2.51%	0.462%
14	14.919	2160	2165	2172	rVB3	16158	24898	1.28%	0.237%
15	15.322	2227	2231	2237	rVB5	11850	20227	1.04%	0.192%

Sum of corrected areas: 10507564

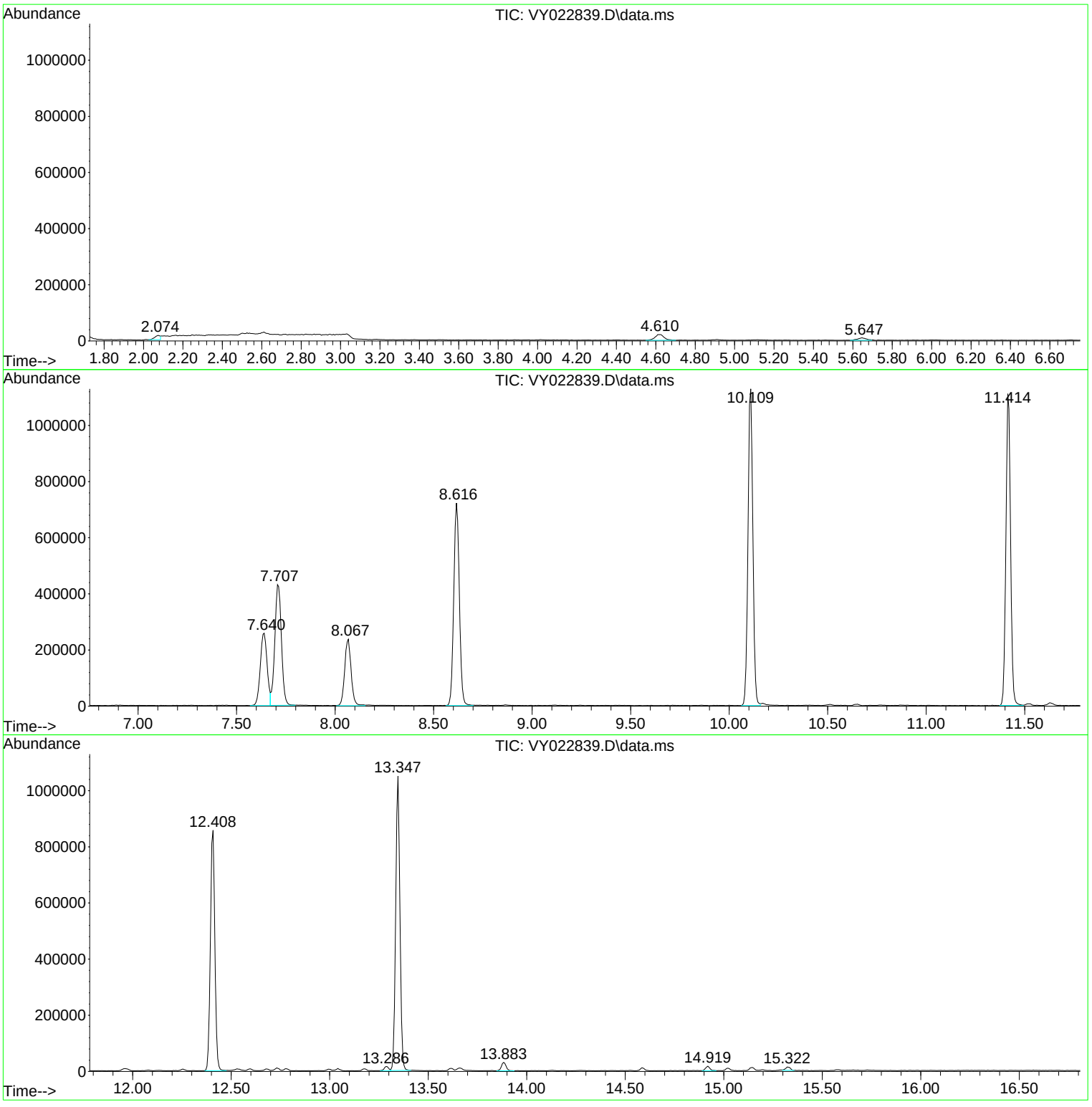
Sample Results: **VY022839.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022839.D
Acq On : 26 Jun 2025 10:39
Operator : SY/MD
Sample : VY0626SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBL01

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: **VY022839.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022839.D
Acq On : 26 Jun 2025 10:39
Operator : SY/MD
Sample : VY0626SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBL01

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\VY062625\
Data File : VY022839.D
Acq On : 26 Jun 2025 10:39
Operator : SY/MD
Sample : VY0626SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBL01

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: **VY022813.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:	VY0625SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBS01	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
VY022813.D	1		06/25/25 10:18	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.9		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.1		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.3		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.7		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.3		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.1		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.4		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.3		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	22.2		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.0		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	20.4		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.1		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.0		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	20.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.5		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.9		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.2		0.78	5.00	ug/Kg

Raw Data: **VY022813.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:	VY0625SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBS01	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
VY022813.D	1		06/25/25 10:18	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.4		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.5		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.2		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.8		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	39.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.82	5.00	ug/Kg
100-42-5	Styrene	19.6		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.0		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.7		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.9		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.3		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.3		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	51.1		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	434000	7.707			
540-36-3	1,4-Difluorobenzene	722000	8.61			
3114-55-4	Chlorobenzene-d5	625000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	303000	13.346			

Raw Data: **VY022813.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:	VY0625SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBS01	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
VY022813.D	1		06/25/25 10:18	VY062525

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

Sample Results: **VY022813.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022813.D
Acq On : 25 Jun 2025 10:18
Operator : SY/MD
Sample : VY0625SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 01:21:54 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	433589	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	722109	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	625216	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	303331	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	242621	50.136	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.280%			
35) Dibromofluoromethane	7.628	113	220103	50.120	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.240%			
50) Toluene-d8	10.103	98	890330	51.092	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.180%			
62) 4-Bromofluorobenzene	12.402	95	278337	49.686	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.380%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	81186	21.897	ug/l	95
3) Chloromethane	2.068	50	135254	19.104	ug/l	97
4) Vinyl Chloride	2.202	62	179649	20.311	ug/l	99
5) Bromomethane	2.586	94	158066	22.731	ug/l	100
6) Chloroethane	2.726	64	120447	20.258	ug/l	99
7) Trichlorofluoromethane	3.050	101	204622	20.893	ug/l	99
8) Diethyl Ether	3.452	74	48452	20.030	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.812	101	92792	20.732	ug/l	97
10) Methyl Iodide	4.001	142	87122	17.878	ug/l	99
11) Tert butyl alcohol	4.860	59	32380	100.628	ug/l	97
12) 1,1-Dichloroethene	3.781	96	89307	20.349	ug/l	92
13) Acrolein	3.647	56	42800	98.090	ug/l	100
14) Allyl chloride	4.379	41	132935	19.693	ug/l	96
15) Acrylonitrile	5.055	53	100224	99.304	ug/l	100
16) Acetone	3.866	43	118455	129.507	ug/l	98
17) Carbon Disulfide	4.098	76	284304	20.053	ug/l	98
18) Methyl Acetate	4.385	43	55302	18.257	ug/l	98
19) Methyl tert-butyl Ether	5.110	73	243361	20.365	ug/l	98
20) Methylene Chloride	4.610	84	128175	22.190	ug/l	95
21) trans-1,2-Dichloroethene	5.104	96	99994	19.936	ug/l	97
22) Diisopropyl ether	6.012	45	296254	19.762	ug/l	97
23) Vinyl Acetate	5.958	43	846321	102.218	ug/l	96
24) 1,1-Dichloroethane	5.909	63	181309	20.023	ug/l	98
25) 2-Butanone	6.890	43	149586	112.367	ug/l	95
26) 2,2-Dichloropropane	6.878	77	154476	20.351	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	116946	20.065	ug/l	98
28) Bromochloromethane	7.238	49	74195	19.490	ug/l	91
29) Tetrahydrofuran	7.256	42	83626	99.484	ug/l	97
30) Chloroform	7.415	83	186763	20.025	ug/l	96
31) Cyclohexane	7.695	56	169303	20.368	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	163141	20.242	ug/l	99
36) 1,1-Dichloropropene	7.829	75	135413	20.343	ug/l	99
37) Ethyl Acetate	6.982	43	59185	20.605	ug/l	98
38) Carbon Tetrachloride	7.817	117	143061	20.369	ug/l	100
39) Methylcyclohexane	9.103	83	177352	20.588	ug/l	99
40) Benzene	8.079	78	411248	20.095	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022813.D
Acq On : 25 Jun 2025 10:18
Operator : SY/MD
Sample : VY0625SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 01:21:54 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41)	Methacrylonitrile	7.220	41	31682	17.917	ug/l		92
42)	1,2-Dichloroethane	8.152	62	114922	20.492	ug/l		99
43)	Isopropyl Acetate	8.195	43	120554	20.194	ug/l		98
44)	Trichloroethene	8.859	130	107469	20.915	ug/l		100
45)	1,2-Dichloropropane	9.140	63	95404	19.918	ug/l		96
46)	Dibromomethane	9.231	93	55489	20.407	ug/l		97
47)	Bromodichloromethane	9.420	83	142732	20.357	ug/l		100
48)	Methyl methacrylate	9.219	41	56946	19.842	ug/l		93
49)	1,4-Dioxane	9.231	88	13775	428.799	ug/l		94
51)	4-Methyl-2-Pentanone	9.993	43	312167	102.898	ug/l		95
52)	Toluene	10.164	92	260309	20.161	ug/l		98
53)	t-1,3-Dichloropropene	10.390	75	126276	20.017	ug/l		98
54)	cis-1,3-Dichloropropene	9.853	75	148869	20.352	ug/l		97
55)	1,1,2-Trichloroethane	10.566	97	72106	20.479	ug/l		96
56)	Ethyl methacrylate	10.438	69	94517	19.953	ug/l		95
57)	1,3-Dichloropropane	10.713	76	123837	20.159	ug/l		100
58)	2-Chloroethyl Vinyl ether	9.707	63	231051	102.647	ug/l		96
59)	2-Hexanone	10.755	43	225152	109.161	ug/l		97
60)	Dibromochloromethane	10.908	129	91915	20.211	ug/l		99
61)	1,2-Dibromoethane	11.012	107	65422	19.856	ug/l		99
64)	Tetrachloroethene	10.640	164	128793	21.806	ug/l		98
65)	Chlorobenzene	11.438	112	273856	19.934	ug/l		96
66)	1,1,1,2-Tetrachloroethane	11.511	131	91854	19.740	ug/l		99
67)	Ethyl Benzene	11.518	91	484455	20.071	ug/l		99
68)	m/p-Xylenes	11.627	106	371550	39.820	ug/l		98
69)	o-Xylene	11.950	106	173353	19.717	ug/l		98
70)	Styrene	11.963	104	288868	19.615	ug/l		99
71)	Bromoform	12.127	173	50492	19.488	ug/l	#	98
73)	Isopropylbenzene	12.249	105	454532	20.261	ug/l		99
74)	N-amyl acetate	12.066	43	105475	20.947	ug/l		97
75)	1,1,2,2-Tetrachloroethane	12.505	83	68614	18.978	ug/l		100
76)	1,2,3-Trichloropropane	12.554	75	62922m	20.319	ug/l		
77)	Bromobenzene	12.530	156	102271	20.113	ug/l		99
78)	n-propylbenzene	12.590	91	554312	20.466	ug/l		98
79)	2-Chlorotoluene	12.676	91	307549	20.098	ug/l		99
80)	1,3,5-Trimethylbenzene	12.731	105	369334	20.394	ug/l		99
81)	trans-1,4-Dichloro-2-b...	12.298	75	24529	20.011	ug/l		98
82)	4-Chlorotoluene	12.773	91	317157	19.731	ug/l		99
83)	tert-Butylbenzene	12.993	119	332288	20.806	ug/l		99
84)	1,2,4-Trimethylbenzene	13.036	105	362862	20.013	ug/l		100
85)	sec-Butylbenzene	13.170	105	495337	20.613	ug/l		99
86)	p-Isopropyltoluene	13.285	119	404929	20.249	ug/l		99
87)	1,3-Dichlorobenzene	13.285	146	200924	19.675	ug/l		99
88)	1,4-Dichlorobenzene	13.365	146	202091	19.922	ug/l		99
89)	n-Butylbenzene	13.615	91	386027	20.522	ug/l		99
90)	Hexachloroethane	13.877	117	81416	20.442	ug/l		95
91)	1,2-Dichlorobenzene	13.657	146	177811	19.758	ug/l		99
92)	1,2-Dibromo-3-Chloropr...	14.273	75	11840	19.311	ug/l		98
93)	1,2,4-Trichlorobenzene	14.913	180	103180	20.306	ug/l		98
94)	Hexachlorobutadiene	15.017	225	59479	20.700	ug/l		97
95)	Naphthalene	15.139	128	183849	20.008	ug/l		99
96)	1,2,3-Trichlorobenzene	15.322	180	85735	19.526	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022813.D
Acq On : 25 Jun 2025 10:18
Operator : SY/MD
Sample : VY0625SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 01:21:54 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025

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

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

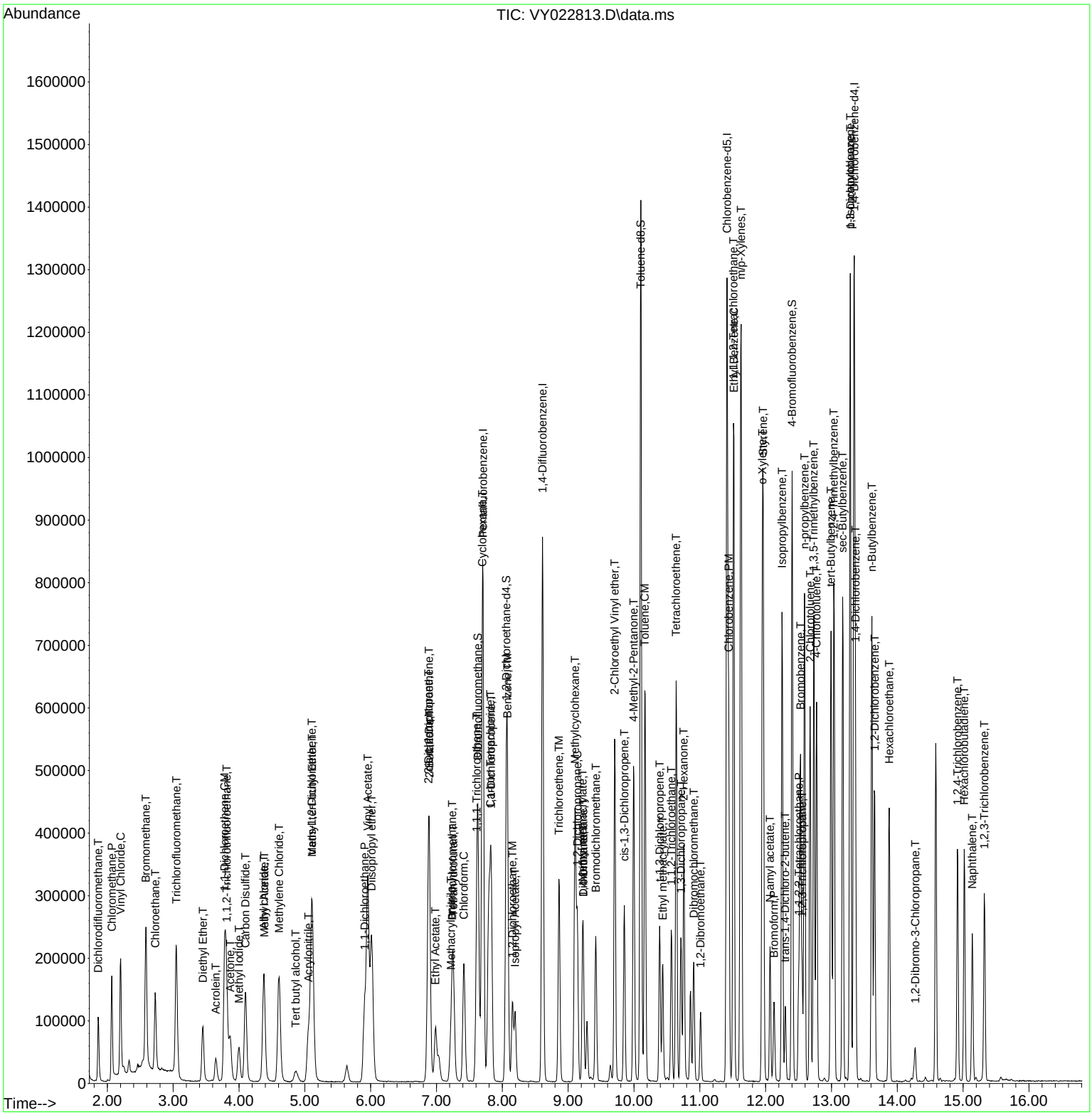
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022813.D
Acq On : 25 Jun 2025 10:18
Operator : SY/MD
Sample : VY0625SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 01:21:54 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025



Raw Data: **VY022840.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:	VY0626SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0626SBS01	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
VY022840.D	1		06/26/25 11:09	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.4		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.2		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.0		0.79	5.00	ug/Kg
74-83-9	Bromomethane	23.1		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.0		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	20.5		1.00	5.00	ug/Kg
67-64-1	Acetone	150		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.4		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.1		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	23.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.2		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.6		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.3		0.79	5.00	ug/Kg
78-93-3	2-Butanone	130		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.3		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.7		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.3		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.3		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.8		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		3.60	25.0	ug/Kg
108-88-3	Toluene	20.0		0.78	5.00	ug/Kg

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:	VY0626SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0626SBS01	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
VY022840.D	1		06/26/25 11:09	VY062625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	120		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.0		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.9		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.82	5.00	ug/Kg
100-42-5	Styrene	19.7		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.4		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.5		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.7		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	20.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.5		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	50.4		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	51.0		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		17 - 146	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	435000	7.713			
540-36-3	1,4-Difluorobenzene	740000	8.616			
3114-55-4	Chlorobenzene-d5	638000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	302000	13.346			

Raw Data: **VY022840.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:	VY0626SBS01	SDG No.:	Q2413
Lab Sample ID:	VY0626SBS01	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
VY022840.D	1		06/26/25 11:09	VY062625

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

Sample Results: **VY022840.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022840.D
Acq On : 26 Jun 2025 11:09
Operator : SY/MD
Sample : VY0626SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 01:24:35 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/27/2025
Supervised By :Semsettin Yesilyurt 06/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	434636	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	740035	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	637859	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	302470	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	251125	51.768	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.540%			
35) Dibromofluoromethane	7.634	113	226818	50.398	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.800%			
50) Toluene-d8	10.109	98	910365	50.976	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.960%			
62) 4-Bromofluorobenzene	12.408	95	287131	50.014	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	75961	20.438	ug/l	99
3) Chloromethane	2.068	50	157607	22.208	ug/l	99
4) Vinyl Chloride	2.202	62	176902	19.952	ug/l	96
5) Bromomethane	2.592	94	160953	23.091	ug/l	99
6) Chloroethane	2.733	64	115049	19.304	ug/l	91
7) Trichlorofluoromethane	3.056	101	186321	18.978	ug/l	100
8) Diethyl Ether	3.458	74	51940	21.420	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	93427	20.824	ug/l	97
10) Methyl Iodide	4.007	142	89370	18.295	ug/l	99
11) Tert butyl alcohol	4.866	59	34478	106.890	ug/l	96
12) 1,1-Dichloroethene	3.793	96	90089	20.478	ug/l	96
13) Acrolein	3.653	56	44603	101.976	ug/l	99
14) Allyl chloride	4.385	41	136536	20.177	ug/l	97
15) Acrylonitrile	5.061	53	109518	108.251	ug/l	97
16) Acetone	3.873	43	140162	152.870	ug/l	99
17) Carbon Disulfide	4.110	76	290236	20.422	ug/l	98
18) Methyl Acetate	4.391	43	55098	18.146	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	251821	21.022	ug/l	99
20) Methylene Chloride	4.610	84	133084	22.984	ug/l	92
21) trans-1,2-Dichloroethene	5.116	96	101684	20.224	ug/l	89
22) Diisopropyl ether	6.025	45	311227	20.710	ug/l	98
23) Vinyl Acetate	5.964	43	893618	107.671	ug/l	98
24) 1,1-Dichloroethane	5.915	63	186884	20.589	ug/l	98
25) 2-Butanone	6.896	43	171331	128.392	ug/l	98
26) 2,2-Dichloropropane	6.884	77	159165	20.918	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	118753	20.326	ug/l	100
28) Bromochloromethane	7.250	49	78900	20.675	ug/l	93
29) Tetrahydrofuran	7.268	42	87942	104.367	ug/l	97
30) Chloroform	7.421	83	189613	20.282	ug/l	97
31) Cyclohexane	7.707	56	169401	20.331	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	163686	20.260	ug/l	99
36) 1,1-Dichloropropene	7.835	75	138096	20.244	ug/l	99
37) Ethyl Acetate	6.988	43	63941	21.721	ug/l	96
38) Carbon Tetrachloride	7.817	117	142237	19.761	ug/l	97
39) Methylcyclohexane	9.109	83	177800	20.141	ug/l	94
40) Benzene	8.079	78	421633	20.103	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022840.D
Acq On : 26 Jun 2025 11:09
Operator : SY/MD
Sample : VY0626SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 01:24:35 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/27/2025
Supervised By :Semsettin Yesilyurt 06/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	32720m	18.055	ug/l		
42) 1,2-Dichloroethane	8.164	62	115601	20.114	ug/l		100
43) Isopropyl Acetate	8.201	43	126731	20.714	ug/l		98
44) Trichloroethene	8.866	130	109279	20.752	ug/l		99
45) 1,2-Dichloropropane	9.140	63	98526	20.071	ug/l		99
46) Dibromomethane	9.231	93	55463	19.904	ug/l		95
47) Bromodichloromethane	9.426	83	145403	20.235	ug/l		96
48) Methyl methacrylate	9.219	41	57700	19.618	ug/l		94
49) 1,4-Dioxane	9.237	88	12972	394.021	ug/l		99
51) 4-Methyl-2-Pentanone	9.999	43	327464	105.326	ug/l		95
52) Toluene	10.170	92	264441	19.985	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	129063	19.963	ug/l		96
54) cis-1,3-Dichloropropene	9.859	75	152185	20.301	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	72736	20.158	ug/l		96
56) Ethyl methacrylate	10.438	69	97480	20.080	ug/l		96
57) 1,3-Dichloropropane	10.719	76	129095	20.506	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	243132	104.978	ug/l		99
59) 2-Hexanone	10.762	43	248724	117.668	ug/l		97
60) Dibromochloromethane	10.914	129	93288	20.016	ug/l		99
61) 1,2-Dibromoethane	11.018	107	67523	19.998	ug/l		97
64) Tetrachloroethene	10.646	164	125228	20.782	ug/l		97
65) Chlorobenzene	11.444	112	279293	19.927	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	91277	19.228	ug/l		97
67) Ethyl Benzene	11.518	91	488351	19.831	ug/l		100
68) m/p-Xylenes	11.627	106	379404	39.856	ug/l		99
69) o-Xylene	11.956	106	177426	19.781	ug/l		99
70) Styrene	11.969	104	296661	19.745	ug/l		99
71) Bromoform	12.133	173	51209	19.373	ug/l	#	98
73) Isopropylbenzene	12.255	105	457536	20.453	ug/l		99
74) N-amyl acetate	12.072	43	107487	21.407	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	74768	20.739	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	61465m	19.905	ug/l		
77) Bromobenzene	12.530	156	102739	20.262	ug/l		98
78) n-propylbenzene	12.597	91	563739	20.873	ug/l		99
79) 2-Chlorotoluene	12.682	91	312924	20.507	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	372151	20.608	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	25482	20.848	ug/l		98
82) 4-Chlorotoluene	12.779	91	325338	20.298	ug/l		100
83) tert-Butylbenzene	12.999	119	329113	20.665	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	371892	20.570	ug/l		99
85) sec-Butylbenzene	13.176	105	500578	20.891	ug/l		100
86) p-Isopropyltoluene	13.292	119	408150	20.468	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	206675	20.296	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	202641	20.033	ug/l		98
89) n-Butylbenzene	13.615	91	386853	20.625	ug/l		99
90) Hexachloroethane	13.877	117	80122	20.174	ug/l		95
91) 1,2-Dichlorobenzene	13.657	146	180806	20.148	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12353	20.205	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	100273	19.790	ug/l		97
94) Hexachlorobutadiene	15.023	225	56997	19.893	ug/l		98
95) Naphthalene	15.145	128	181412	19.799	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	85239	19.468	ug/l		99

Sample Results: **VY022840.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022840.D
Acq On : 26 Jun 2025 11:09
Operator : SY/MD
Sample : VY0626SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 01:24:35 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/27/2025
Supervised By :Semsettin Yesilyurt 06/27/2025

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

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

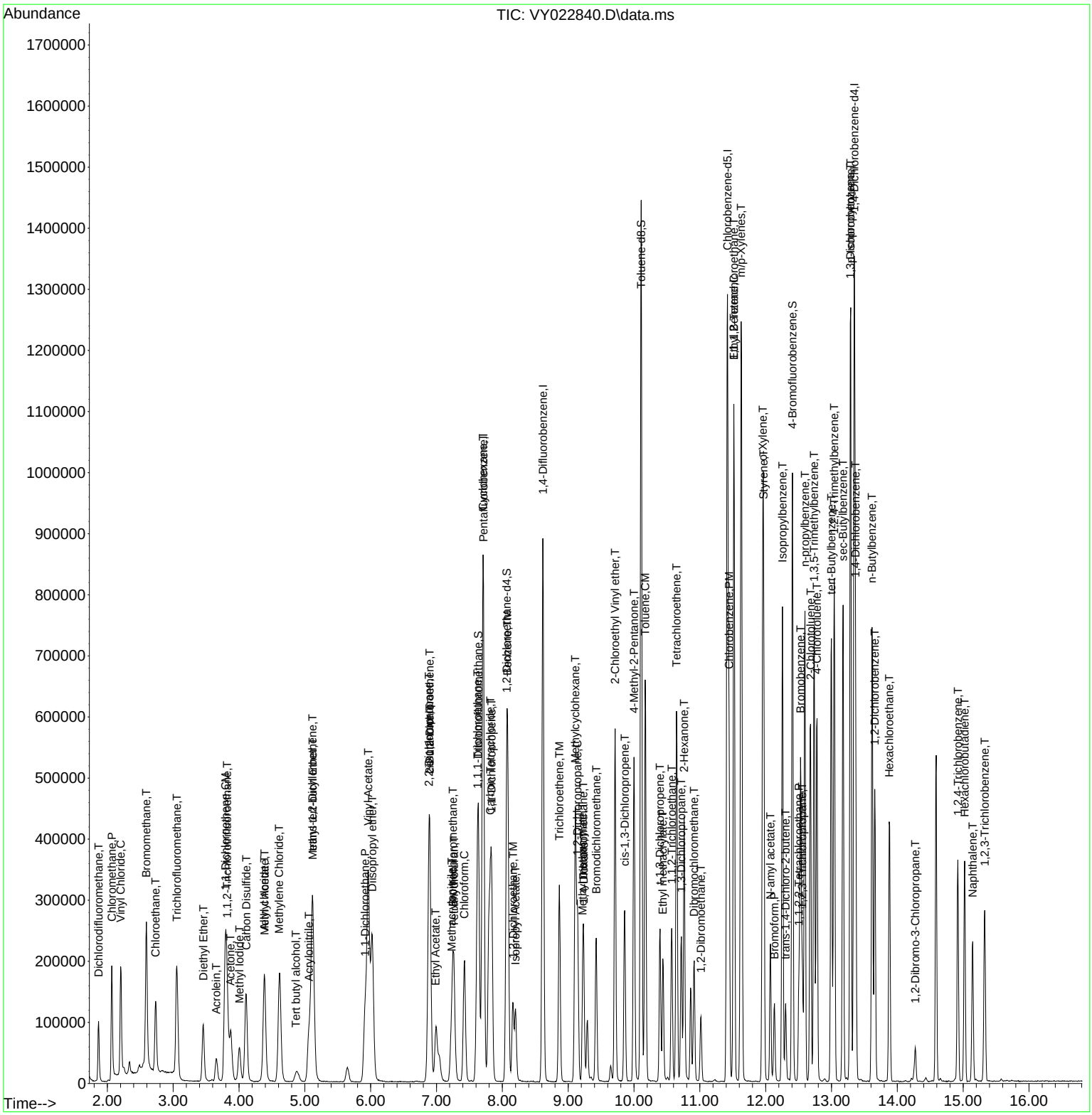
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
Data File : VY022840.D
Acq On : 26 Jun 2025 11:09
Operator : SY/MD
Sample : VY0626SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 01:24:35 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0626SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/27/2025
Supervised By :Semsettin Yesilyurt 06/27/2025



Raw Data: **VY022814.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:	VY0625SBSD01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBSD01	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
VY022814.D	1		06/25/25 10:40	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.7		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.0		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.0		0.79	5.00	ug/Kg
74-83-9	Bromomethane	23.1		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.8		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.7		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.4		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.9		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.6		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	21.1		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.5		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	20.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.4		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.7		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.2		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.5		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.5		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.0		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:	VY0625SBSD01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBSD01	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
VY022814.D	1		06/25/25 10:40	VY062525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.1		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.3		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.3		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.3		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.6		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.0		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.2		0.82	5.00	ug/Kg
100-42-5	Styrene	20.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.1		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	22.6		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.5		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.0		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	51.5		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	425000	7.707			
540-36-3	1,4-Difluorobenzene	718000	8.61			
3114-55-4	Chlorobenzene-d5	607000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	290000	13.34			

Raw Data: **VY022814.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:	VY0625SBSD01	SDG No.:	Q2413
Lab Sample ID:	VY0625SBSD01	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
VY022814.D	1		06/25/25 10:40	VY062525

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\VY062525\
Data File : VY022814.D
Acq On : 25 Jun 2025 10:40
Operator : SY/MD
Sample : VY0625SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025

Quant Time: Jun 26 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	424898	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	717544	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	607296	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	290027	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	242030	51.037	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.080%			
35) Dibromofluoromethane	7.634	113	222927	51.086	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.180%			
50) Toluene-d8	10.103	98	890947	51.452	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.900%			
62) 4-Bromofluorobenzene	12.402	95	275492	49.491	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	78745	21.673	ug/l	96
3) Chloromethane	2.068	50	138945	20.027	ug/l	98
4) Vinyl Chloride	2.202	62	182054	21.004	ug/l	99
5) Bromomethane	2.586	94	157128	23.059	ug/l	95
6) Chloroethane	2.733	64	121275	20.815	ug/l	96
7) Trichlorofluoromethane	3.050	101	200667	20.908	ug/l	98
8) Diethyl Ether	3.446	74	50073	21.124	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.805	101	91009	20.749	ug/l	96
10) Methyl Iodide	4.001	142	94146	19.715	ug/l	100
11) Tert butyl alcohol	4.860	59	33452	106.086	ug/l	96
12) 1,1-Dichloroethene	3.787	96	88942	20.680	ug/l	94
13) Acrolein	3.653	56	42644	99.732	ug/l	97
14) Allyl chloride	4.379	41	133965	20.251	ug/l	96
15) Acrylonitrile	5.055	53	101457	102.582	ug/l	99
16) Acetone	3.866	43	113350	126.460	ug/l	98
17) Carbon Disulfide	4.098	76	283426	20.400	ug/l	100
18) Methyl Acetate	4.385	43	55317	18.636	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	245173	20.936	ug/l	100
20) Methylene Chloride	4.610	84	119529	21.116	ug/l	94
21) trans-1,2-Dichloroethene	5.104	96	100045	20.354	ug/l	98
22) Diisopropyl ether	6.012	45	300315	20.442	ug/l	97
23) Vinyl Acetate	5.958	43	862587	106.314	ug/l	99
24) 1,1-Dichloroethane	5.915	63	182067	20.518	ug/l	98
25) 2-Butanone	6.890	43	148381	113.742	ug/l	98
26) 2,2-Dichloropropane	6.884	77	155434	20.896	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	116462	20.390	ug/l	99
28) Bromochloromethane	7.238	49	73668	19.747	ug/l	90
29) Tetrahydrofuran	7.256	42	85568	103.877	ug/l	98
30) Chloroform	7.421	83	184957	20.237	ug/l	97
31) Cyclohexane	7.695	56	166199	20.404	ug/l	97
32) 1,1,1-Trichloroethane	7.610	97	161699	20.473	ug/l	100
36) 1,1-Dichloropropene	7.835	75	137152	20.735	ug/l	99
37) Ethyl Acetate	6.982	43	60434	21.174	ug/l	98
38) Carbon Tetrachloride	7.817	117	143555	20.569	ug/l	97
39) Methylcyclohexane	9.103	83	176753	20.649	ug/l	98
40) Benzene	8.073	78	414868	20.400	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022814.D
Acq On : 25 Jun 2025 10:40
Operator : SY/MD
Sample : VY0625SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 01:22:56 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	31667m	18.022	ug/l		
42) 1,2-Dichloroethane	8.152	62	114004	20.458	ug/l		100
43) Isopropyl Acetate	8.195	43	121769	20.527	ug/l		96
44) Trichloroethene	8.859	130	104305	20.429	ug/l		97
45) 1,2-Dichloropropane	9.140	63	96701	20.317	ug/l		97
46) Dibromomethane	9.231	93	54575	20.199	ug/l		95
47) Bromodichloromethane	9.420	83	141655	20.332	ug/l		99
48) Methyl methacrylate	9.219	41	59325	20.803	ug/l		95
49) 1,4-Dioxane	9.225	88	13207	413.733	ug/l		96
51) 4-Methyl-2-Pentanone	9.993	43	312180	103.557	ug/l		95
52) Toluene	10.170	92	257140	20.043	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	126193	20.131	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	149309	20.542	ug/l		96
55) 1,1,2-Trichloroethane	10.566	97	70896	20.264	ug/l		99
56) Ethyl methacrylate	10.438	69	95154	20.215	ug/l		96
57) 1,3-Dichloropropane	10.713	76	125950	20.634	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	230014	102.808	ug/l		97
59) 2-Hexanone	10.755	43	221825	108.232	ug/l		98
60) Dibromochloromethane	10.908	129	91897	20.335	ug/l		100
61) 1,2-Dibromoethane	11.012	107	66514	20.316	ug/l		99
64) Tetrachloroethene	10.646	164	107596	18.754	ug/l		98
65) Chlorobenzene	11.438	112	274373	20.561	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.511	131	91628	20.273	ug/l		98
67) Ethyl Benzene	11.518	91	482855	20.595	ug/l		97
68) m/p-Xylenes	11.621	106	371302	40.968	ug/l		99
69) o-Xylene	11.950	106	172619	20.213	ug/l		99
70) Styrene	11.963	104	291429	20.373	ug/l		99
71) Bromoform	12.127	173	50533	20.079	ug/l	#	99
73) Isopropylbenzene	12.249	105	455955	21.257	ug/l		99
74) N-amyl acetate	12.066	43	105137	21.837	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.499	83	77969	22.554	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	62785m	21.204	ug/l		
77) Bromobenzene	12.530	156	103458	21.280	ug/l		98
78) n-propylbenzene	12.591	91	552810	21.346	ug/l		99
79) 2-Chlorotoluene	12.676	91	310185	21.200	ug/l		98
80) 1,3,5-Trimethylbenzene	12.731	105	366043	21.140	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.298	75	24135	20.593	ug/l		96
82) 4-Chlorotoluene	12.773	91	321374	20.911	ug/l		100
83) tert-Butylbenzene	12.993	119	324534	21.252	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	367087	21.175	ug/l		99
85) sec-Butylbenzene	13.170	105	487318	21.210	ug/l		98
86) p-Isopropyltoluene	13.286	119	399571	20.898	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	204529	20.947	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	198671	20.483	ug/l		99
89) n-Butylbenzene	13.615	91	381348	21.203	ug/l		100
90) Hexachloroethane	13.877	117	80642	21.176	ug/l		98
91) 1,2-Dichlorobenzene	13.651	146	176576	20.521	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	11732	20.012	ug/l		97
93) 1,2,4-Trichlorobenzene	14.913	180	98311	20.236	ug/l		99
94) Hexachlorobutadiene	15.017	225	54711	19.914	ug/l		99
95) Naphthalene	15.139	128	180073	20.496	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	83548	19.901	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022814.D
Acq On : 25 Jun 2025 10:40
Operator : SY/MD
Sample : VY0625SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025

Quant Time: Jun 26 01:22:56 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)

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

Sample Results: **VY022814.D**

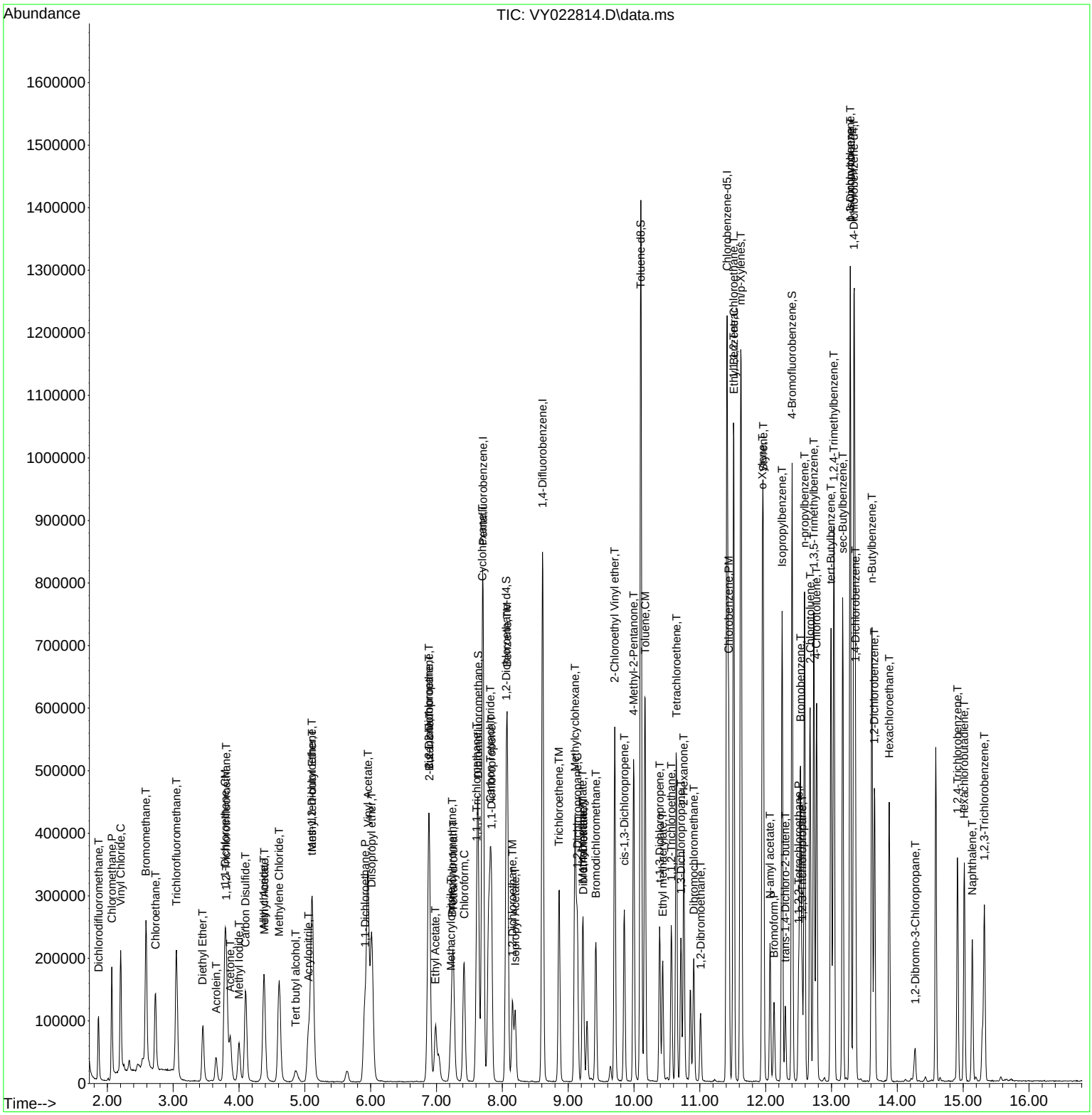
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
Data File : VY022814.D
Acq On : 25 Jun 2025 10:40
Operator : SY/MD
Sample : VY0625SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 01:22:56 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0625SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/26/2025
Supervised By :Semsettin Yesilyurt 06/26/2025



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

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

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

Manual Integration Report

Sequence:	vy062525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022811.D	1,2,3-Trichloropropane	MMDadoda	6/26/2025 2:39:31 PM	Sam	6/26/2025 2:42:12 PM	Peak Integrated by Software
VSTDCCC050	VY022811.D	Methacrylonitrile	MMDadoda	6/26/2025 2:39:31 PM	Sam	6/26/2025 2:42:12 PM	Peak Integrated by Software
VY0625SBS01	VY022813.D	1,2,3-Trichloropropane	MMDadoda	6/26/2025 2:39:32 PM	Sam	6/26/2025 2:42:14 PM	Peak Integrated by Software
VY0625SBSD01	VY022814.D	1,2,3-Trichloropropane	MMDadoda	6/26/2025 2:39:33 PM	Sam	6/26/2025 2:42:17 PM	Peak Integrated by Software
VY0625SBSD01	VY022814.D	Methacrylonitrile	MMDadoda	6/26/2025 2:39:33 PM	Sam	6/26/2025 2:42:17 PM	Peak Integrated by Software
VSTDCCC050	VY022836.D	1,2,3-Trichloropropane	MMDadoda	6/26/2025 2:39:34 PM	Sam	6/26/2025 2:42:19 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY062625	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022838.D	1,2,3-Trichloropropane	MMDadoda	6/27/2025 10:45:03 AM	Sam	6/27/2025 10:50:46 AM	Peak Integrated by Software
VY0626SBS01	VY022840.D	1,2,3-Trichloropropane	MMDadoda	6/27/2025 10:45:11 AM	Sam	6/27/2025 10:50:52 AM	Peak Integrated by Software
VY0626SBS01	VY022840.D	Methacrylonitrile	MMDadoda	6/27/2025 10:45:11 AM	Sam	6/27/2025 10:50:52 AM	Peak Integrated by Software
VSTDCCC050	VY022850.D	1,2,3-Trichloropropane	MMDadoda	6/27/2025 10:45:37 AM	Sam	6/27/2025 10:51:20 AM	Peak Integrated by Software

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 # 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

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 # VY062525

Review By	Mahesh Dadoda	Review On	6/26/2025 2:39:39 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	6/26/2025 2:42:28 PM				
SubDirectory	VY062525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134515
Initial Calibration Stds	
CCC	VP134516,VP134517
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	VY022810.D	25 Jun 2025 08:41	SY/MD	Ok
2	VSTDCCC050	VY022811.D	25 Jun 2025 09:13	SY/MD	Ok,M
3	VY0625SBL01	VY022812.D	25 Jun 2025 09:46	SY/MD	Ok
4	VY0625SBS01	VY022813.D	25 Jun 2025 10:18	SY/MD	Ok,M
5	VY0625SBSD01	VY022814.D	25 Jun 2025 10:40	SY/MD	Ok,M
6	Q2403-03RE	VY022815.D	25 Jun 2025 11:24	SY/MD	Confirms
7	Q2398-06	VY022816.D	25 Jun 2025 11:48	SY/MD	Dilution
8	Q2386-01	VY022817.D	25 Jun 2025 12:11	SY/MD	Ok
9	Q2355-03	VY022818.D	25 Jun 2025 12:35	SY/MD	Ok
10	Q2413-01	VY022819.D	25 Jun 2025 12:58	SY/MD	ReRun
11	Q2413-02	VY022820.D	25 Jun 2025 13:22	SY/MD	Ok
12	Q2413-03	VY022821.D	25 Jun 2025 13:45	SY/MD	Ok
13	Q2413-04	VY022822.D	25 Jun 2025 14:08	SY/MD	Ok
14	Q2413-05	VY022823.D	25 Jun 2025 14:32	SY/MD	Ok
15	Q2413-06	VY022824.D	25 Jun 2025 14:55	SY/MD	ReRun
16	Q2405-03	VY022825.D	25 Jun 2025 15:19	SY/MD	ReRun
17	Q2412-01	VY022826.D	25 Jun 2025 15:42	SY/MD	Ok
18	Q2414-03	VY022827.D	25 Jun 2025 16:05	SY/MD	Ok
19	Q2415-03	VY022828.D	25 Jun 2025 16:29	SY/MD	Ok
20	Q2416-03	VY022829.D	25 Jun 2025 16:52	SY/MD	Ok
21	Q2420-01	VY022830.D	25 Jun 2025 17:16	SY/MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY062525

Review By	Mahesh Dadoda	Review On	6/26/2025 2:39:39 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	6/26/2025 2:42:28 PM				
SubDirectory	VY062525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134515
Initial Calibration Stds	
CCC	VP134516,VP134517
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2425-01	VY022831.D	25 Jun 2025 17:39	SY/MD	Ok
23	Q2425-02	VY022832.D	25 Jun 2025 18:02	SY/MD	Ok
24	Q2425-03	VY022833.D	25 Jun 2025 18:26	SY/MD	Ok
25	Q2423-01	VY022834.D	25 Jun 2025 18:50	SY/MD	Ok
26	VIBLK	VY022835.D	25 Jun 2025 19:13	SY/MD	Ok
27	VSTDCCC050	VY022836.D	25 Jun 2025 19:59	SY/MD	Ok,M

M : Manual Integration

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 # VY062625

Review By	Mahesh Dadoda	Review On	6/27/2025 10:46:03 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	6/27/2025 10:51:29 AM				
SubDirectory	VY062625	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134542
Initial Calibration Stds	
CCC	VP134543,VP134544
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	VY022837.D	26 Jun 2025 08:22	SY/MD	Ok
2	VSTDCCC050	VY022838.D	26 Jun 2025 10:07	SY/MD	Ok,M
3	VY0626SBL01	VY022839.D	26 Jun 2025 10:39	SY/MD	Ok
4	VY0626SBS01	VY022840.D	26 Jun 2025 11:09	SY/MD	Ok,M
5	VY0626SBSD01	VY022841.D	26 Jun 2025 11:32	SY/MD	Ok,M
6	Q2419-01	VY022842.D	26 Jun 2025 12:10	SY/MD	ReRun
7	Q2405-03RE	VY022843.D	26 Jun 2025 12:33	SY/MD	Confirms
8	Q2413-01	VY022844.D	26 Jun 2025 12:56	SY/MD	Ok
9	Q2413-06	VY022845.D	26 Jun 2025 13:20	SY/MD	Ok
10	Q2371-06	VY022846.D	26 Jun 2025 13:43	SY/MD	Ok
11	Q2419-01RE	VY022847.D	26 Jun 2025 14:07	SY/MD	Confirms
12	Q2429-03	VY022848.D	26 Jun 2025 14:30	SY/MD	Ok
13	Q2430-03	VY022849.D	26 Jun 2025 14:54	SY/MD	Ok
14	VSTDCCC050	VY022850.D	26 Jun 2025 15:19	SY/MD	Ok,M

M : Manual Integration

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 # 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

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 # VY062525

Review By	Mahesh Dadoda	Review On	6/26/2025 2:39:39 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/26/2025 2:42:28 PM		
SubDirectory	VY062525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134515
Initial Calibration Stds	
CCC	VP134516,VP134517
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	VY022810.D	25 Jun 2025 08:41		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022811.D	25 Jun 2025 09:13		SY/MD	Ok,M
3	VY0625SBL01	VY0625SBL01	VY022812.D	25 Jun 2025 09:46		SY/MD	Ok
4	VY0625SBS01	VY0625SBS01	VY022813.D	25 Jun 2025 10:18		SY/MD	Ok,M
5	VY0625SBSD01	VY0625SBSD01	VY022814.D	25 Jun 2025 10:40		SY/MD	Ok,M
6	Q2403-03RE	LAW-25-0093RE	VY022815.D	25 Jun 2025 11:24	vial-B Internal Standard Fail	SY/MD	Confirms
7	Q2398-06	ARS20-0036	VY022816.D	25 Jun 2025 11:48	vial-B Need MeOH	SY/MD	Dilution
8	Q2386-01	SU-1-062025	VY022817.D	25 Jun 2025 12:11	vial-B	SY/MD	Ok
9	Q2355-03	20071	VY022818.D	25 Jun 2025 12:35	vial-B Internal and surrogate fail	SY/MD	Ok
10	Q2413-01	TP-35	VY022819.D	25 Jun 2025 12:58	vial-A Surrogate Fail	SY/MD	ReRun
11	Q2413-02	TP-34	VY022820.D	25 Jun 2025 13:22	vial-A	SY/MD	Ok
12	Q2413-03	TP-77	VY022821.D	25 Jun 2025 13:45	vial-A	SY/MD	Ok
13	Q2413-04	TP-74	VY022822.D	25 Jun 2025 14:08	vial-A	SY/MD	Ok
14	Q2413-05	TP-73	VY022823.D	25 Jun 2025 14:32	vial-A	SY/MD	Ok
15	Q2413-06	TP-72	VY022824.D	25 Jun 2025 14:55	vial-A Internal Standard Fail	SY/MD	ReRun
16	Q2405-03	MH-M/N-VOC	VY022825.D	25 Jun 2025 15:19	vial-A Internal Standard Fail	SY/MD	ReRun
17	Q2412-01	TR-05-062425	VY022826.D	25 Jun 2025 15:42	vial-A	SY/MD	Ok
18	Q2414-03	WC-1-VOC	VY022827.D	25 Jun 2025 16:05	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 # VY062525

Review By	Mahesh Dadoda	Review On	6/26/2025 2:39:39 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/26/2025 2:42:28 PM		
SubDirectory	VY062525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134515
Initial Calibration Stds	
CCC	VP134516,VP134517
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2415-03	WC-1-VOC	VY022828.D	25 Jun 2025 16:29	vial-A	SY/MD	Ok
20	Q2416-03	MH-G/H-VOC	VY022829.D	25 Jun 2025 16:52	vial-A	SY/MD	Ok
21	Q2420-01	72-11933	VY022830.D	25 Jun 2025 17:16	vial-A	SY/MD	Ok
22	Q2425-01	COMP-1	VY022831.D	25 Jun 2025 17:39	vial-A	SY/MD	Ok
23	Q2425-02	COMP-2	VY022832.D	25 Jun 2025 18:02	vial-A	SY/MD	Ok
24	Q2425-03	COMP-3	VY022833.D	25 Jun 2025 18:26	vial-A	SY/MD	Ok
25	Q2423-01	RT915	VY022834.D	25 Jun 2025 18:50	vial-A	SY/MD	Ok
26	VIBLK	VIBLK	VY022835.D	25 Jun 2025 19:13		SY/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VY022836.D	25 Jun 2025 19:59		SY/MD	Ok,M

M : Manual Integration

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 # VY062625

Review By	Mahesh Dadoda	Review On	6/27/2025 10:46:03 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	6/27/2025 10:51:29 AM				
SubDirectory	VY062625	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134542
Initial Calibration Stds	
CCC	VP134543,VP134544
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	VY022837.D	26 Jun 2025 08:22		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022838.D	26 Jun 2025 10:07		SY/MD	Ok,M
3	VY0626SBL01	VY0626SBL01	VY022839.D	26 Jun 2025 10:39		SY/MD	Ok
4	VY0626SBS01	VY0626SBS01	VY022840.D	26 Jun 2025 11:09		SY/MD	Ok,M
5	VY0626SBSD01	VY0626SBSD01	VY022841.D	26 Jun 2025 11:32		SY/MD	Ok,M
6	Q2419-01	EO-3-6-25-2025	VY022842.D	26 Jun 2025 12:10	vial-A Internal Standard Fail	SY/MD	ReRun
7	Q2405-03RE	MH-M/N-VOCRE	VY022843.D	26 Jun 2025 12:33	vial-B Internal Standard Fail	SY/MD	Confirms
8	Q2413-01	TP-35	VY022844.D	26 Jun 2025 12:56	vial-B	SY/MD	Ok
9	Q2413-06	TP-72	VY022845.D	26 Jun 2025 13:20	vial-B	SY/MD	Ok
10	Q2371-06	GBUFF1	VY022846.D	26 Jun 2025 13:43	vial-A	SY/MD	Ok
11	Q2419-01RE	EO-3-6-25-2025RE	VY022847.D	26 Jun 2025 14:07	vial-B Internal Standard Fail	SY/MD	Confirms
12	Q2429-03	TP-4-VOC	VY022848.D	26 Jun 2025 14:30	vial-A	SY/MD	Ok
13	Q2430-03	MH-E/F-VOC	VY022849.D	26 Jun 2025 14:54	vial-A	SY/MD	Ok
14	VSTDCCC050	VSTDCCC050EC	VY022850.D	26 Jun 2025 15:19		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/26/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
In Date: 06/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 06/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB136262

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
Q2413-01	TP-35	1	1.18	10.41	11.59	10.42	88.8	
Q2413-02	TP-34	2	1.13	10.60	11.73	10.88	92.0	
Q2413-03	TP-77	3	1.15	10.65	11.8	10.88	91.4	
Q2413-04	TP-74	4	1.15	10.83	11.98	10.84	89.5	
Q2413-05	TP-73	5	1.13	10.86	11.99	9.5	77.1	
Q2413-06	TP-72	6	1.16	10.74	11.9	10.5	87.0	
Q2414-01	WC-1	7	1.19	10.50	11.69	10.58	89.4	
Q2414-02	WC-1-EPH	8	1.17	10.08	11.25	10.22	89.8	
Q2414-03	WC-1-VOC	9	1.15	10.83	11.98	10.97	90.7	
Q2414-04	WC-1	10	1.19	10.50	11.69	10.58	89.4	
Q2415-01	WC-1	11	1.19	10.63	11.82	10.72	89.7	
Q2415-02	WC-1-EPH	12	1.15	10.00	11.15	10.12	89.7	
Q2415-03	WC-1-VOC	13	1.19	10.27	11.46	10.4	89.7	
Q2416-01	MH-G/H	14	1.15	10.86	12.01	10.89	89.7	
Q2416-02	MH-G/H-EPH	15	1.14	10.41	11.55	10.52	90.1	
Q2416-03	MH-G/H-VOC	16	1.12	10.57	11.69	10.8	91.6	
Q2416-04	MH-G/H	17	1.15	10.86	12.01	10.89	89.7	
Q2419-01	EO-03-06252025	26	1.17	10.53	11.7	10.97	93.1	
Q2419-02	EO-03-06252025-E2	27	1.13	10.23	11.36	10.36	90.2	
Q2420-01	72-11933	18	1.18	10.49	11.67	11.03	93.9	
Q2421-01	62325	19	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2421-02	624-A	20	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2421-03	624-B	21	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2421-04	624-C	22	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2421-05	624-D	23	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2421-06	62325-A	24	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2422-01	60263	25	1.00	1.00	2.00	2.00	100.0	oil sample
Q2423-01	RT915	28	1.19	10.63	11.82	10.88	91.2	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/26/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
In Date: 06/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 06/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB136262

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
Q2423-02	RT915	29	1.14	10.45	11.59	10.84	92.8	
Q2425-01	COMP-1	30	1.19	10.38	11.57	9.17	76.9	
Q2425-02	COMP-2	31	1.15	10.37	11.52	9.41	79.7	
Q2425-03	COMP-3	32	1.12	10.71	11.83	9.97	82.6	

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

WORKLIST(Hardcopy Internal Chain)

136262

WorkList Name : %1-062525 **WorkList ID :** 190366 **Department :** Wet-Chemistry **Date :** 06-25-2025 08:11:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2413-01	TP-35	Solid	Percent Solids	Cool 4 deg C	CAMP02	D41	06/24/2025	Chemtech -SO
Q2413-02	TP-34	Solid	Percent Solids	Cool 4 deg C	CAMP02	D41	06/24/2025	Chemtech -SO
Q2413-03	TP-77	Solid	Percent Solids	Cool 4 deg C	CAMP02	D41	06/24/2025	Chemtech -SO
Q2413-04	TP-74	Solid	Percent Solids	Cool 4 deg C	CAMP02	D41	06/24/2025	Chemtech -SO
Q2413-05	TP-73	Solid	Percent Solids	Cool 4 deg C	CAMP02	D41	06/24/2025	Chemtech -SO
Q2413-06	TP-72	Solid	Percent Solids	Cool 4 deg C	CAMP02	D41	06/24/2025	Chemtech -SO
Q2414-01	WC-1	Solid	Percent Solids	Cool 4 deg C	CAMP02	D41	06/24/2025	Chemtech -SO
Q2414-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG01		06/25/2025	Chemtech -SO
Q2414-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG01	A33	06/25/2025	Chemtech -SO
Q2414-04	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG01	A33	06/25/2025	Chemtech -SO
Q2415-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG01		06/25/2025	Chemtech -SO
Q2415-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/24/2025	Chemtech -SO
Q2415-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/24/2025	Chemtech -SO
Q2416-01	MH-G/H	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/24/2025	Chemtech -SO
Q2416-02	MH-G/H-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03		06/25/2025	Chemtech -SO
Q2416-03	MH-G/H-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	06/25/2025	Chemtech -SO
Q2416-04	MH-G/H	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	06/25/2025	Chemtech -SO
Q2419-01	EO-03-06252025	Solid	Percent Solids	Cool 4 deg C	PSEG03		06/25/2025	Chemtech -SO
Q2419-02	EO-03-06252025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D51	06/25/2025	Chemtech -SO
Q2420-01	72-11933	Solid	Percent Solids	Cool 4 deg C	PSEG05	D51	06/25/2025	Chemtech -SO
Q2421-01	62325	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/25/2025	Chemtech -SO
					PSEG03	D51	06/25/2025	Chemtech -SO

Date/Time 06/25/25 15:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: CP SM

Date/Time 06/25/25 17:20

Raw Sample Received by: CP SM

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

VB 136262

WorkList Name : %1-062525 **WorkList ID :** 190366 **Department :** Wet-Chemistry **Date :** 06-25-2025 08:11:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2421-02	624-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/25/2025	Chemtech -SO
Q2421-03	624-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/25/2025	Chemtech -SO
Q2421-04	624-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/25/2025	Chemtech -SO
Q2421-05	624-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/25/2025	Chemtech -SO
Q2421-06	62325-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/25/2025	Chemtech -SO
Q2422-01	60263	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/25/2025	Chemtech -SO
Q2423-01	RT915	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/25/2025	Chemtech -SO
Q2423-02	RT915	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/25/2025	Chemtech -SO
Q2425-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/25/2025	Chemtech -SO
Q2425-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	POWE02	D51	06/24/2025	Chemtech -SO
Q2425-03	COMP-3	Solid	Percent Solids	Cool 4 deg C	POWE02	D51	06/24/2025	Chemtech -SO

Date/Time 06/25/25 15:10

Raw Sample Received by: TSB (WEC)

Raw Sample Relinquished by: CP SM

Date/Time 06/25/25 17:20

Raw Sample Received by: CP SM

Raw Sample Relinquished by: TSB (WEC)

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

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

ALLIANCE PROJECT NO.
QUOTE NO. Q2413
COC Number 2046479

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: 7322257851

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: 7322257851

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. TCL SVOC
3. TAL METALS
4. PCB
5. PESTICIDES
6. HERBICIDES
7. DRO/GRO
8.
9.

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-35	S		X	6/23/25	0820	6	X	X	X	X	X	X	X			E
2.	TP-34	S		X	6/23/25	0905	6	X	X	X	X	X	X	X			E
3.	TP-77	S		X	6/23/25	1015	6	X	X	X	X	X	X	X			F
4.	TP-74	S		X	6/23/25	1115	6	X	X	X	X	X	X	X			E
5.	TP-73	S		X	6/23/25	1250	6	X	X	X	X	X	X	X			E
6.	TP-72	S		X	6/24/25	0805	6	X	X	X	X	X	X	X			E
7.																	F
8.																	
9.																	
10.																	

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.	6/24/25 1500	1. 1500 6-24-25
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1625 6-24-25	RECEIVED BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2413 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 6/24/2025 3:05:00 PM
Project Name : South River WM Replacem
Receive DateTime : 6/24/2025 ~~12:00:00 AM~~ 16:25
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2413-01	TP-35	Solid	06/24/2025	08:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2413-02	TP-34	Solid	06/24/2025	09:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2413-03	TP-77	Solid	06/24/2025	10:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2413-04	TP-74	Solid	06/24/2025	11:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2413-05	TP-73	Solid	06/24/2025	12:50					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2413-06	TP-72	Solid	06/24/2025	08:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days

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LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By :
Date / Time : 6/25/25 0935

Received By :
Date / Time : 06/25/25 9:35
Storage Area : VOA Refridgerator Room

RgH6
PZ2