

Cover Page

Order ID : Q2994

Project ID : Bayshore Soil BSM Management

Client : Core Environmental Consultants and Services, Inc.

Lab Sample Number

Q2994-01

Client Sample Number

PAULDING-WC1

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

Signature : _____

Date: 9/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2994

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRATIK PATEL

Date: 09/03/2025

LAB CHRONICLE

OrderID:	Q2994	OrderDate:	8/29/2025 1:47:15 PM
Client:	Core Environmental Consultants and Services, Inc.	Project:	Bayshore Soil BSM Management
Contact:	Ronald Tramosch	Location:	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2994-01	PAULDING-WC1	SOIL	VOC-TCLVOA-10	8260D	08/29/25		09/02/25	08/29/25



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

SDG No.: Q2994

Client: Core Environmental Consultants and Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID:

0

Total Voc :

Total Concentration:



QC SUMMARY

Surrogate Summary

SDG No.: Q2994

Client: Core Environmental Consultants and Services, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2994-01	PAULDING-WC1	1,2-Dichloroethane-d4	50	54.5	109		63	155
		Dibromofluoromethane	50	53.6	107		70	134
		Toluene-d8	50	49.3	99		74	123
		4-Bromofluorobenzene	50	40.6	81		17	146
VY0902SBL01	VY0902SBL01	1,2-Dichloroethane-d4	50	55.0	110		63	155
		Dibromofluoromethane	50	54.1	108		70	134
		Toluene-d8	50	51.0	102		74	123
		4-Bromofluorobenzene	50	46.5	93		17	146
VY0902SBS01	VY0902SBS01	1,2-Dichloroethane-d4	50	49.1	98		63	155
		Dibromofluoromethane	50	53.3	107		70	134
		Toluene-d8	50	51.9	104		74	123
		4-Bromofluorobenzene	50	51.5	103		17	146
VY0902SBSD01	VY0902SBSD01	1,2-Dichloroethane-d4	50	50.3	101		63	155
		Dibromofluoromethane	50	55.2	110		70	134
		Toluene-d8	50	54.0	108		74	123
		4-Bromofluorobenzene	50	53.5	107		17	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q2994	Analytical Method:	SW8260D
Client:	Core Environmental Consultants and	Datafile :	VY023254.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0902SBS01	Dichlorodifluoromethane	20	21.2	ug/Kg	106			64	136	
	Chloromethane	20	19.4	ug/Kg	97			52	151	
	Vinyl chloride	20	19.8	ug/Kg	99			56	148	
	Bromomethane	20	22.7	ug/Kg	114			58	141	
	Chloroethane	20	20.1	ug/Kg	101			69	130	
	Trichlorofluoromethane	20	20.8	ug/Kg	104			69	134	
	1,1,2-Trichlorotrifluoroethane	20	22.3	ug/Kg	112			81	123	
	1,1-Dichloroethene	20	21.4	ug/Kg	107			79	121	
	Acetone	100	140	ug/Kg	140			40	171	
	Carbon disulfide	20	19.9	ug/Kg	100			59	130	
	Methyl tert-butyl Ether	20	20.0	ug/Kg	100			77	129	
	Methyl Acetate	20	19.7	ug/Kg	99			69	149	
	Methylene Chloride	20	27.8	ug/Kg	139		*	72	131	
	trans-1,2-Dichloroethene	20	21.0	ug/Kg	105			80	123	
	1,1-Dichloroethane	20	20.7	ug/Kg	104			82	123	
	Cyclohexane	20	18.5	ug/Kg	93			76	122	
	2-Butanone	100	120	ug/Kg	120			69	131	
	Carbon Tetrachloride	20	22.5	ug/Kg	113			76	129	
	cis-1,2-Dichloroethene	20	21.3	ug/Kg	106			82	123	
	Bromochloromethane	20	21.7	ug/Kg	109			80	127	
	Chloroform	20	21.8	ug/Kg	109			82	125	
	1,1,1-Trichloroethane	20	21.5	ug/Kg	108			80	126	
	Methylcyclohexane	20	20.2	ug/Kg	101			77	123	
	Benzene	20	21.8	ug/Kg	109			84	121	
	1,2-Dichloroethane	20	21.6	ug/Kg	108			81	126	
	Trichloroethene	20	23.6	ug/Kg	118			83	122	
	1,2-Dichloropropane	20	21.8	ug/Kg	109			83	122	
	Bromodichloromethane	20	22.5	ug/Kg	113			82	123	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			70	135	
	Toluene	20	21.8	ug/Kg	109			83	122	
	t-1,3-Dichloropropene	20	21.3	ug/Kg	106			78	124	
	cis-1,3-Dichloropropene	20	21.4	ug/Kg	107			81	122	
	1,1,2-Trichloroethane	20	22.8	ug/Kg	114			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	23.3	ug/Kg	117			79	125	
	1,2-Dibromoethane	20	23.1	ug/Kg	116			80	125	
	Tetrachloroethene	20	25.5	ug/Kg	128		*	83	125	
	Chlorobenzene	20	22.0	ug/Kg	110			84	122	
	Ethyl Benzene	20	20.6	ug/Kg	103			82	124	
	m/p-Xylenes	40	43.0	ug/Kg	108			83	124	
	o-Xylene	20	21.1	ug/Kg	106			83	123	
	Styrene	20	21.3	ug/Kg	106			82	124	
	Bromoform	20	23.6	ug/Kg	118			75	127	
	Isopropylbenzene	20	19.9	ug/Kg	100			82	124	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/Kg	98			77	127	
	1,3-Dichlorobenzene	20	21.3	ug/Kg	106			83	122	
	1,4-Dichlorobenzene	20	21.6	ug/Kg	108			84	121	
	1,2-Dichlorobenzene	20	21.6	ug/Kg	108			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2994</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Core Environmental Consultants and</u>	Datafile :	<u>VY023254.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0902SBS01	1,2-Dibromo-3-Chloropropane	20	20.1	ug/Kg	101			66	134	
	1,2,4-Trichlorobenzene	20	20.9	ug/Kg	104			78	127	
	1,2,3-Trichlorobenzene	20	21.1	ug/Kg	106			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2994</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Core Environmental Consultants and</u>	Datafile :	<u>VY023255.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0902SBSD01	Dichlorodifluoromethane	20	22.9	ug/Kg	115	8		64	136	20
	Chloromethane	20	20.2	ug/Kg	101	4		52	151	20
	Vinyl chloride	20	20.8	ug/Kg	104	5		56	148	20
	Bromomethane	20	23.1	ug/Kg	116	2		58	141	20
	Chloroethane	20	21.5	ug/Kg	108	7		69	130	20
	Trichlorofluoromethane	20	21.9	ug/Kg	110	6		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	23.0	ug/Kg	115	3		81	123	20
	1,1-Dichloroethene	20	22.0	ug/Kg	110	3		79	121	20
	Acetone	100	130	ug/Kg	130	7		40	171	20
	Carbon disulfide	20	20.8	ug/Kg	104	4		59	130	20
	Methyl tert-butyl Ether	20	20.5	ug/Kg	103	3		77	129	20
	Methyl Acetate	20	20.8	ug/Kg	104	5		69	149	20
	Methylene Chloride	20	28.9	ug/Kg	145	4	*	72	131	20
	trans-1,2-Dichloroethene	20	22.1	ug/Kg	111	6		80	123	20
	1,1-Dichloroethane	20	21.5	ug/Kg	108	4		82	123	20
	Cyclohexane	20	19.3	ug/Kg	97	4		76	122	20
	2-Butanone	100	120	ug/Kg	120	0		69	131	20
	Carbon Tetrachloride	20	23.1	ug/Kg	116	3		76	129	20
	cis-1,2-Dichloroethene	20	21.7	ug/Kg	109	3		82	123	20
	Bromochloromethane	20	20.8	ug/Kg	104	5		80	127	20
	Chloroform	20	22.5	ug/Kg	113	4		82	125	20
	1,1,1-Trichloroethane	20	22.4	ug/Kg	112	4		80	126	20
	Methylcyclohexane	20	21.3	ug/Kg	106	5		77	123	20
	Benzene	20	22.5	ug/Kg	113	4		84	121	20
	1,2-Dichloroethane	20	22.3	ug/Kg	112	4		81	126	20
	Trichloroethene	20	24.3	ug/Kg	121	3		83	122	20
	1,2-Dichloropropane	20	22.3	ug/Kg	112	3		83	122	20
	Bromodichloromethane	20	23.1	ug/Kg	116	3		82	123	20
	4-Methyl-2-Pentanone	100	100	ug/Kg	100	0		70	135	20
	Toluene	20	22.8	ug/Kg	114	4		83	122	20
	t-1,3-Dichloropropene	20	21.9	ug/Kg	110	4		78	124	20
	cis-1,3-Dichloropropene	20	22.3	ug/Kg	112	5		81	122	20
	1,1,2-Trichloroethane	20	23.9	ug/Kg	119	4		82	125	20
	2-Hexanone	100	110	ug/Kg	110	0		66	138	20
	Dibromochloromethane	20	24.1	ug/Kg	121	3		79	125	20
	1,2-Dibromoethane	20	23.4	ug/Kg	117	1		80	125	20
	Tetrachloroethene	20	26.3	ug/Kg	132	3	*	83	125	20
	Chlorobenzene	20	23.1	ug/Kg	116	5		84	122	20
	Ethyl Benzene	20	22.0	ug/Kg	110	7		82	124	20
	m/p-Xylenes	40	45.5	ug/Kg	114	5		83	124	20
	o-Xylene	20	22.2	ug/Kg	111	5		83	123	20
	Styrene	20	23.0	ug/Kg	115	8		82	124	20
	Bromoform	20	24.7	ug/Kg	124	5		75	127	20
	Isopropylbenzene	20	21.5	ug/Kg	108	8		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.4	ug/Kg	107	9		77	127	20
	1,3-Dichlorobenzene	20	23.5	ug/Kg	117	10		83	122	20
	1,4-Dichlorobenzene	20	22.8	ug/Kg	114	5		84	121	20
	1,2-Dichlorobenzene	20	23.3	ug/Kg	117	8		83	124	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2994</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Core Environmental Consultants and</u>	Datafile :	<u>VY023255.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0902SBSD01	1,2-Dibromo-3-Chloropropane	20	21.4	ug/Kg	107	6		66	134	20
	1,2,4-Trichlorobenzene	20	23.2	ug/Kg	116	11		78	127	20
	1,2,3-Trichlorobenzene	20	23.0	ug/Kg	115	8		70	137	20

VOLATILE METHOD BLANK SUMMARY

Client ID

VY0902SBL01

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2994

Lab File ID: VY023253.D

Lab Sample ID: VY0902SBL01

Date Analyzed: 09/02/2025

Time Analyzed: 10:05

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0902SBS01	VY0902SBS01	VY023254.D	09/02/2025
VY0902SBSD01	VY0902SBSD01	VY023255.D	09/02/2025
PAULDING-WC1	Q2994-01	VY023265.D	09/02/2025

COMMENTS: _____



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2994

Lab File ID: VY023048.D

BFB Injection Date: 08/12/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 08:26

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	51.9
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	83.2
175	5.0 - 9.0% of mass 174	6.3 (7.6) 1
176	95.0 - 101.0% of mass 174	80.9 (97.2) 1
177	5.0 - 9.0% of mass 176	5.1 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY023050.D	08/12/2025	14:54
VSTDIC010	VSTDIC010	VY023051.D	08/12/2025	15:17
VSTDIC020	VSTDIC020	VY023052.D	08/12/2025	15:40
VSTDIC050	VSTDIC050	VY023053.D	08/12/2025	16:02
VSTDIC100	VSTDIC100	VY023054.D	08/12/2025	16:25
VSTDIC150	VSTDIC150	VY023055.D	08/12/2025	16:47



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2994

Lab File ID: VY023251.D

BFB Injection Date: 09/02/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 08:28

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	18.1
75	30.0 - 60.0% of mass 95	51.4
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
174	50.0 - 100.0% of mass 95	91.5
175	5.0 - 9.0% of mass 174	6.8 (7.4) 1
176	95.0 - 101.0% of mass 174	87.4 (95.5) 1
177	5.0 - 9.0% of mass 176	5.7 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY023252.D	09/02/2025	08:58
VY0902SBL01	VY0902SBL01	VY023253.D	09/02/2025	10:05
VY0902SBS01	VY0902SBS01	VY023254.D	09/02/2025	10:32
VY0902SBSD01	VY0902SBSD01	VY023255.D	09/02/2025	10:54
PAULDING-WC1	Q2994-01	VY023265.D	09/02/2025	15:10

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CORE02
 Lab Code: ACE SDG NO.: Q2994
 Lab File ID: VY023252.D Date Analyzed: 09/02/2025
 Instrument ID: MSVOA_Y Time Analyzed: 08:58
 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	475955	7.71	695623	8.62	620932	11.42
UPPER LIMIT	951910	8.213	1391250	9.115	1241860	11.92
LOWER LIMIT	237978	7.213	347812	8.115	310466	10.92
EPA SAMPLE NO.						
PAULDING-WC1	590164	7.71	1097764	8.62	927290	11.41
VY0902SBL01	633947	7.71	1182526	8.62	1069383	11.42
VY0902SBS01	456395	7.71	704595	8.62	630936	11.41
VY0902SBSD01	455942	7.71	701236	8.62	619173	11.41

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CORE02
 Lab Code: ACE SDG NO.: Q2994
 Lab File ID: VY023252.D Date Analyzed: 09/02/2025
 Instrument ID: MSVOA_Y Time Analyzed: 08:58
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	319834	13.346				
UPPER LIMIT	639668	13.846				
LOWER LIMIT	159917	12.846				
EPA SAMPLE NO.						
PAULDING-WC1	306386	13.35				
VY0902SBL01	430142	13.35				
VY0902SBS01	331529	13.35				
VY0902SBSD01	320346	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.		Date Collected:	08/29/25	
Project:	Bayshore Soil BSM Management		Date Received:	08/29/25	
Client Sample ID:	PAULDING-WC1		SDG No.:	Q2994	
Lab Sample ID:	Q2994-01		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	91	
Sample Wt/Vol:	5.15	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023265.D	1	09/02/25 15:10	VY090225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.30	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.30	ug/Kg
75-01-4	Vinyl Chloride	0.84	U	0.84	5.30	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.30	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.30	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.30	ug/Kg
67-64-1	Acetone	5.10	U	5.10	26.7	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.78	U	0.78	5.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.30	ug/Kg
75-09-2	Methylene Chloride	3.80	UQ	3.80	10.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.92	U	0.92	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.85	U	0.85	5.30	ug/Kg
110-82-7	Cyclohexane	0.84	U	0.84	5.30	ug/Kg
78-93-3	2-Butanone	7.00	U	7.00	26.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.30	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.30	ug/Kg
67-66-3	Chloroform	0.90	U	0.90	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	5.30	ug/Kg
108-87-2	Methylcyclohexane	0.97	U	0.97	5.30	ug/Kg
71-43-2	Benzene	0.84	U	0.84	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.84	U	0.84	5.30	ug/Kg
79-01-6	Trichloroethene	0.86	U	0.86	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.97	U	0.97	5.30	ug/Kg
75-27-4	Bromodichloromethane	0.83	U	0.83	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	26.7	ug/Kg
108-88-3	Toluene	0.83	U	0.83	5.30	ug/Kg

Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.		Date Collected:	08/29/25	
Project:	Bayshore Soil BSM Management		Date Received:	08/29/25	
Client Sample ID:	PAULDING-WC1		SDG No.:	Q2994	
Lab Sample ID:	Q2994-01		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	91	
Sample Wt/Vol:	5.15	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023265.D	1	09/02/25 15:10	VY090225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.69	U	0.69	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.66	U	0.66	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.98	U	0.98	5.30	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.7	ug/Kg
124-48-1	Dibromochloromethane	0.93	U	0.93	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.94	U	0.94	5.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	UQ	1.10	5.30	ug/Kg
108-90-7	Chlorobenzene	0.97	U	0.97	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.71	U	0.71	5.30	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.7	ug/Kg
95-47-6	o-Xylene	0.87	U	0.87	5.30	ug/Kg
100-42-5	Styrene	0.76	U	0.76	5.30	ug/Kg
75-25-2	Bromoform	0.92	U	0.92	5.30	ug/Kg
98-82-8	Isopropylbenzene	0.83	U	0.83	5.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.70	5.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.20	U	3.20	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	3.40	5.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.5		63 - 155	109%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.6		17 - 146	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	590000	7.707			
540-36-3	1,4-Difluorobenzene	1100000	8.616			
3114-55-4	Chlorobenzene-d5	927000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	306000	13.346			

Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.	Date Collected:	08/29/25
Project:	Bayshore Soil BSM Management	Date Received:	08/29/25
Client Sample ID:	PAULDING-WC1	SDG No.:	Q2994
Lab Sample ID:	Q2994-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91
Sample Wt/Vol:	5.15 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023265.D	1	09/02/25 15:10	VY090225

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023265.D
 Acq On : 02 Sep 2025 15:10
 Operator : SY/MD
 Sample : Q2994-01
 Misc : 5.15g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PAULDING-WC1

Quant Time: Sep 03 03:32:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	590164	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1097764	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	927290	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	306386	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	306595	54.509	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	109.020%
35) Dibromofluoromethane	7.634	113	352346	53.640	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	107.280%
50) Toluene-d8	10.109	98	1265219	49.305	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.600%
62) 4-Bromofluorobenzene	12.402	95	335272	40.626	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	81.260%

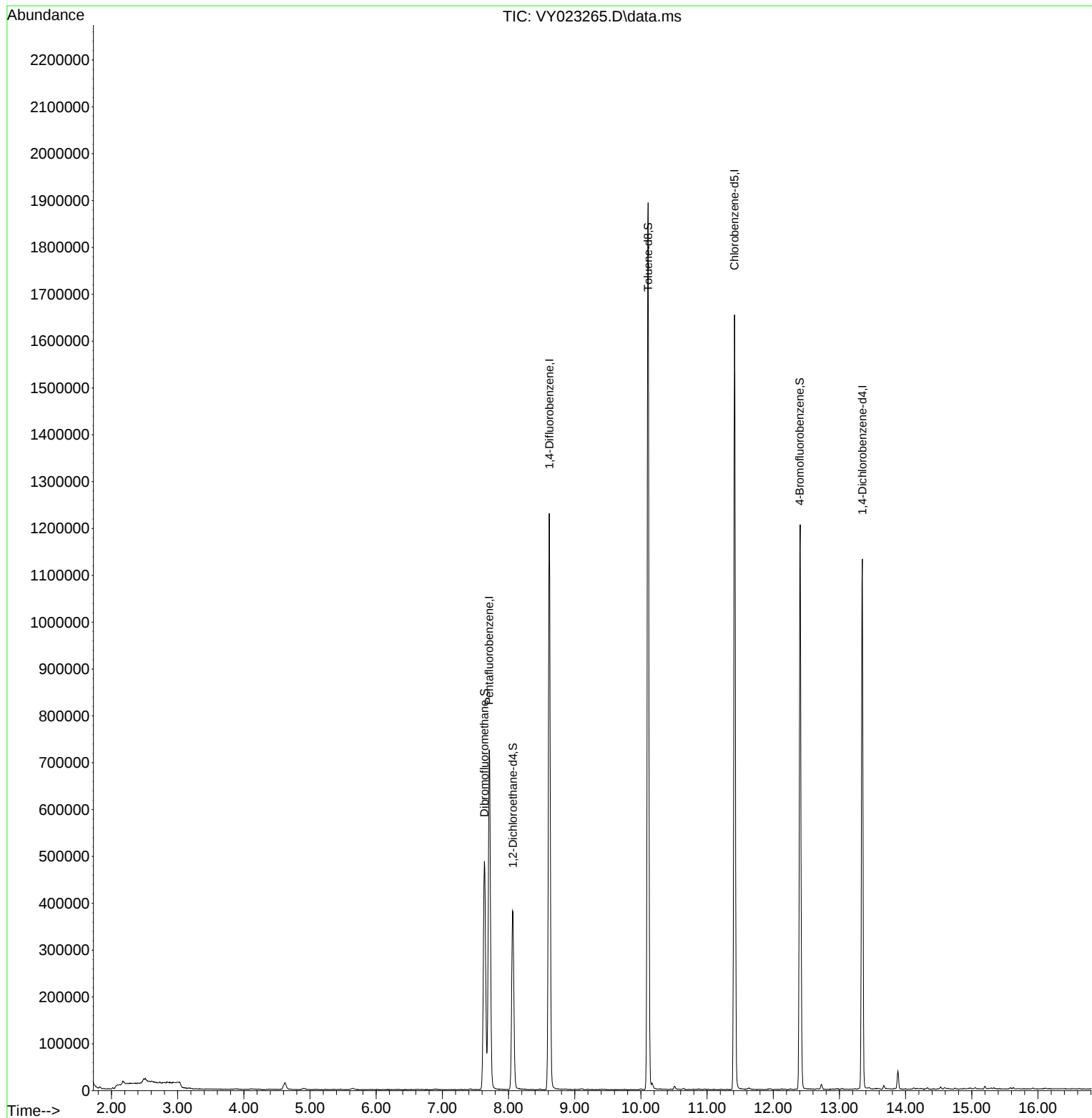
Target Compounds	Qvalue

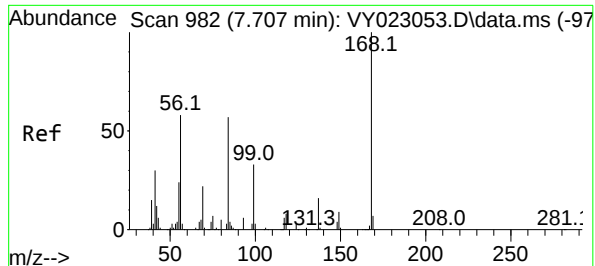
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023265.D
Acq On : 02 Sep 2025 15:10
Operator : SY/MD
Sample : Q2994-01
Misc : 5.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PAULDING-WC1

Quant Time: Sep 03 03:32:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

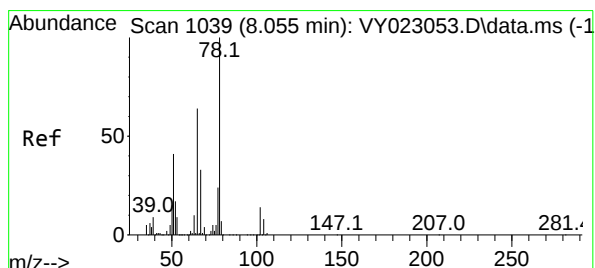
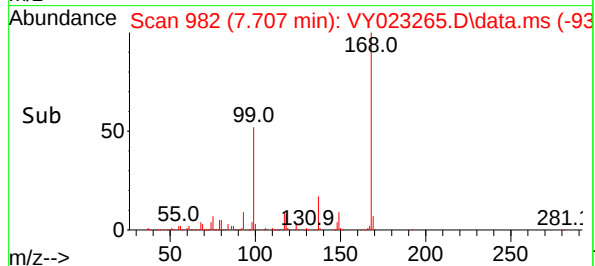
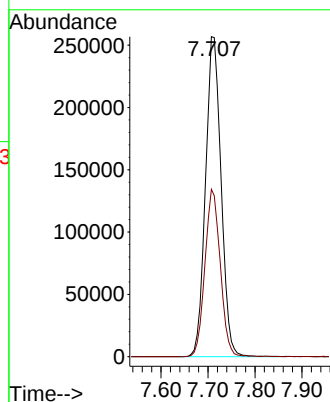
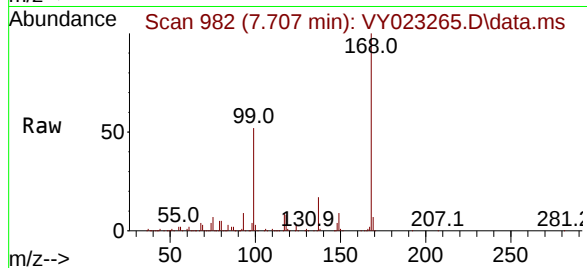




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY023265.D
Acq: 02 Sep 2025 15:10

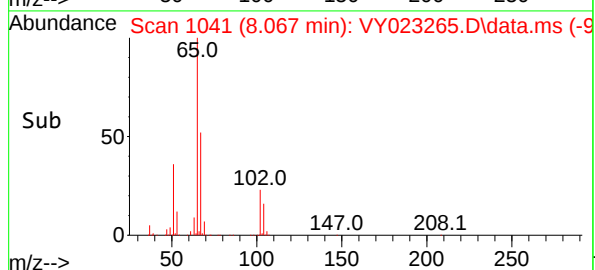
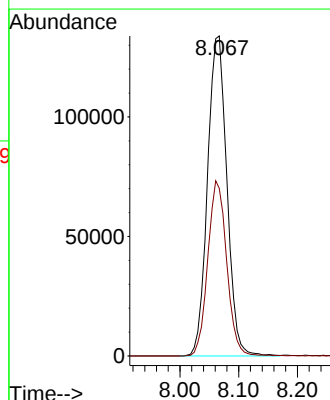
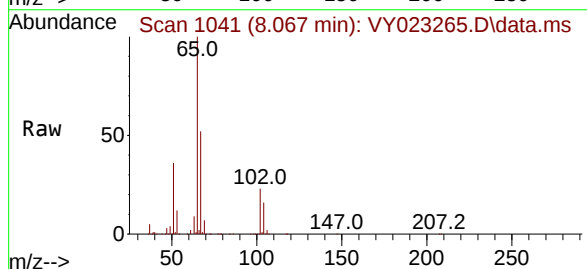
Instrument :
MSVOA_Y
ClientSampleId :
PAULDING-WC1

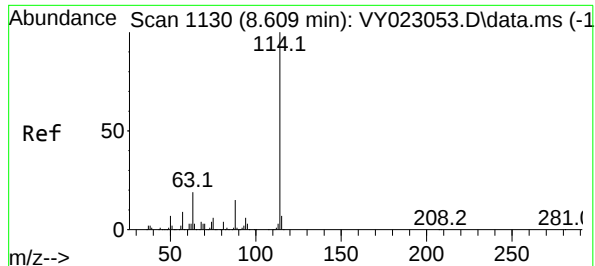
Tgt Ion:168 Resp: 590164
Ion Ratio Lower Upper
168 100
99 52.3 42.8 64.2



#33
1,2-Dichloroethane-d4
Concen: 54.509 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.012 min
Lab File: VY023265.D
Acq: 02 Sep 2025 15:10

Tgt Ion: 65 Resp: 306595
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VY023265.D

Acq: 02 Sep 2025 15:10

Instrument :

MSVOA_Y

ClientSampleId :

PAULDING-WC1

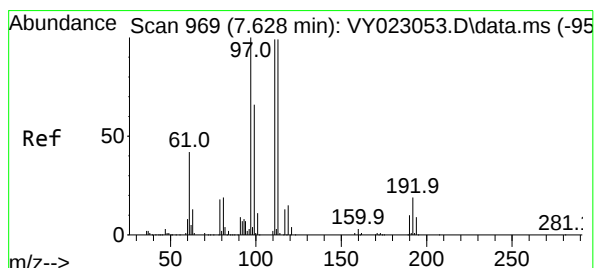
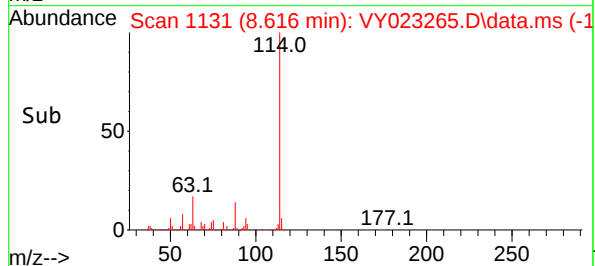
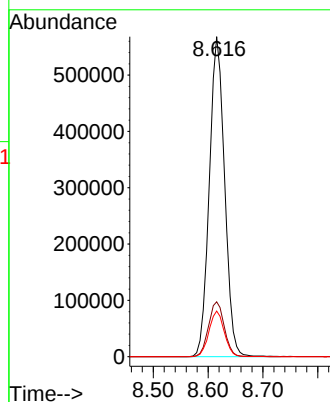
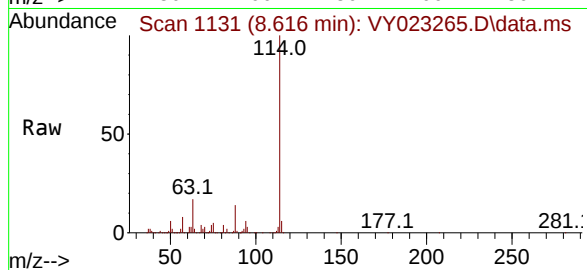
Tgt Ion:114 Resp: 1097764

Ion Ratio Lower Upper

114 100

63 17.2 0.0 38.4

88 14.2 0.0 30.0



#35

Dibromofluoromethane

Concen: 53.640 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.006 min

Lab File: VY023265.D

Acq: 02 Sep 2025 15:10

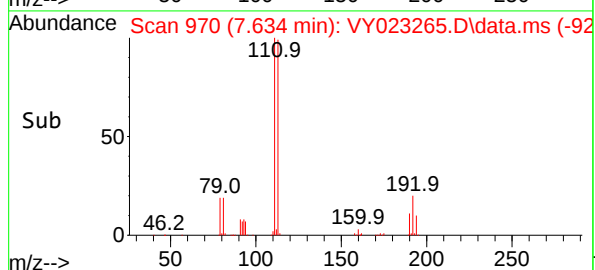
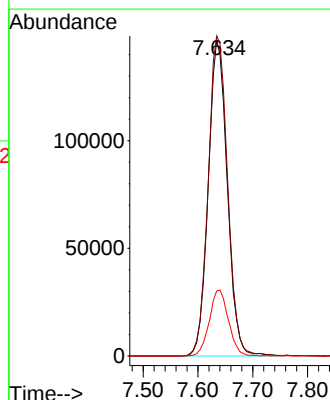
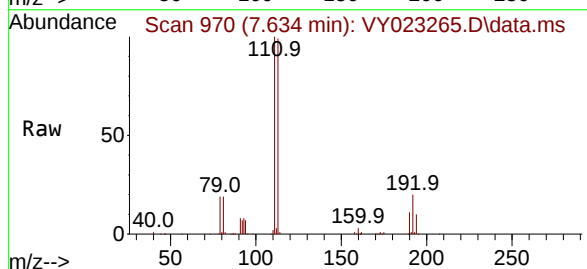
Tgt Ion:113 Resp: 352346

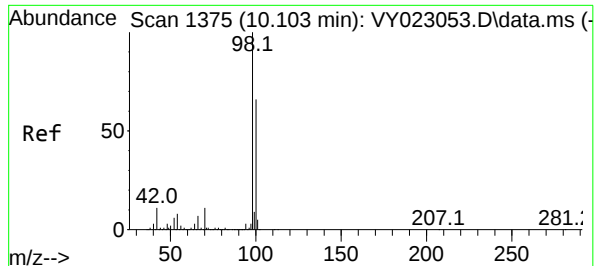
Ion Ratio Lower Upper

113 100

111 103.8 81.1 121.7

192 21.1 16.2 24.4





#50

Toluene-d8

Concen: 49.305 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. 0.006 min

Lab File: VY023265.D

Acq: 02 Sep 2025 15:10

Instrument :

MSVOA_Y

ClientSampleId :

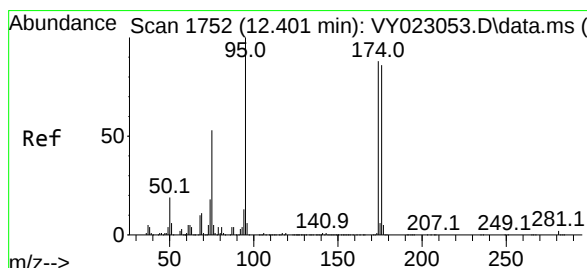
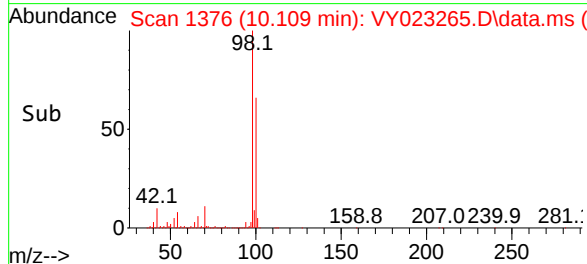
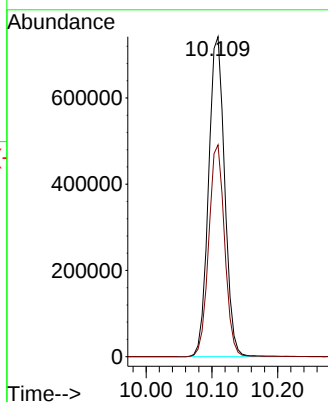
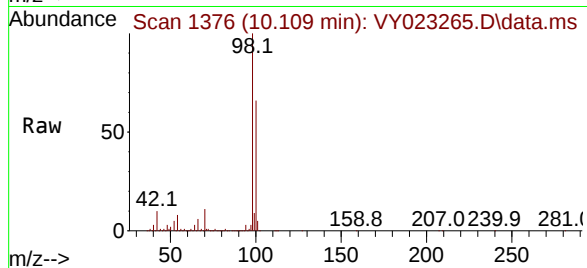
PAULDING-WC1

Tgt Ion: 98 Resp: 1265219

Ion Ratio Lower Upper

98 100

100 65.4 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 40.626 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY023265.D

Acq: 02 Sep 2025 15:10

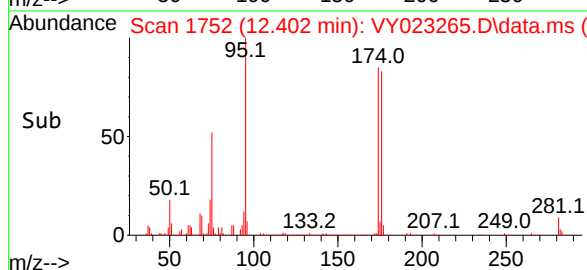
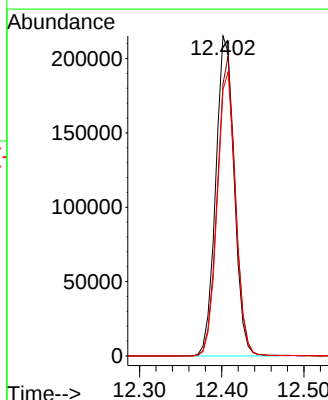
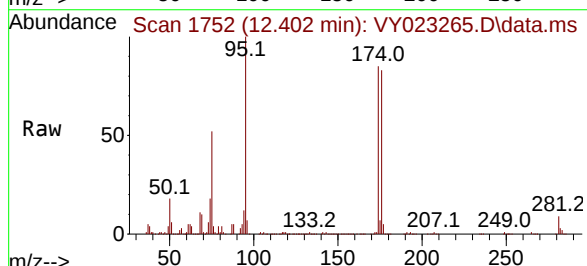
Tgt Ion: 95 Resp: 335272

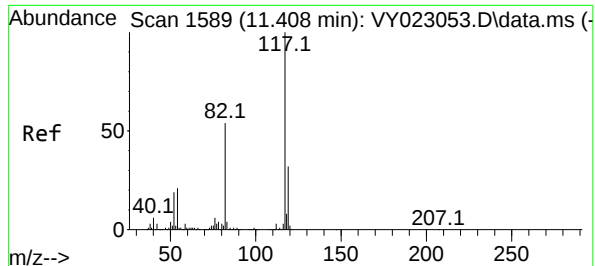
Ion Ratio Lower Upper

95 100

174 91.9 0.0 171.6

176 88.4 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023265.D

Acq: 02 Sep 2025 15:10

Instrument :

MSVOA_Y

ClientSampleId :

PAULDING-WC1

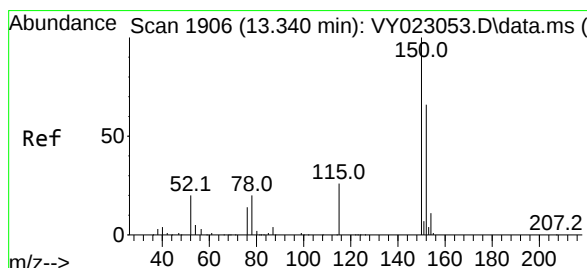
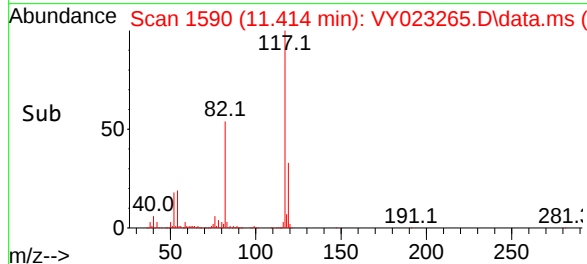
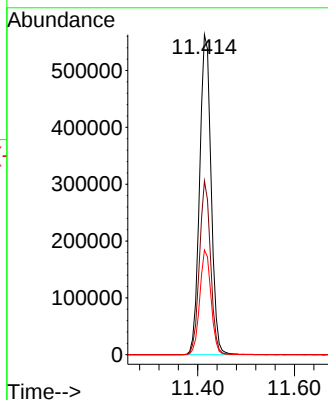
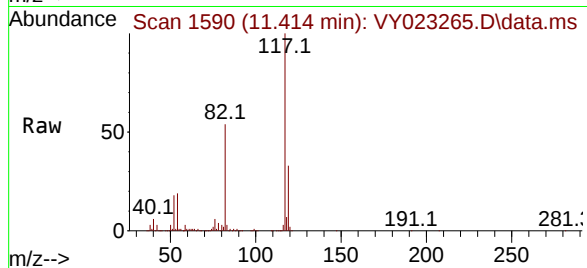
Tgt Ion:117 Resp: 927290

Ion Ratio Lower Upper

117 100

82 54.3 43.4 65.0

119 32.7 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023265.D

Acq: 02 Sep 2025 15:10

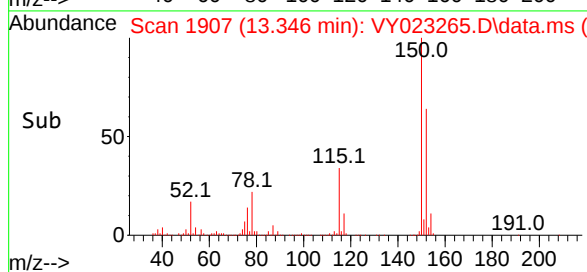
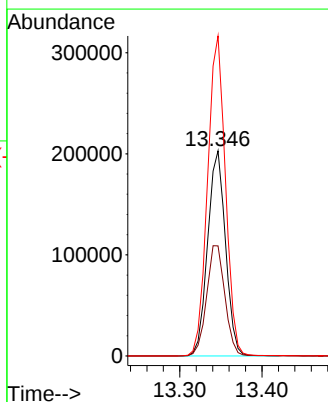
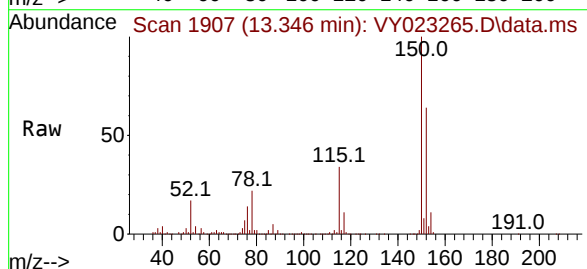
Tgt Ion:152 Resp: 306386

Ion Ratio Lower Upper

152 100

115 55.3 28.2 84.6

150 155.9 0.0 348.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023265.D
Acq On : 02 Sep 2025 15:10
Operator : SY/MD
Sample : Q2994-01
Misc : 5.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PAULDING-WC1

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M

Title : SW846 8260

Signal : TIC: VY023265.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	467	476	487	rVB3	14079	40128	1.24%	0.252%
2	7.634	959	970	976	rBV	487341	1169933	36.11%	7.333%
3	7.707	976	982	998	rVB	724497	1666085	51.42%	10.443%
4	8.061	1029	1040	1054	rBV	381997	880892	27.19%	5.521%
5	8.616	1122	1131	1149	rBV	1230152	2414938	74.53%	15.136%
6	10.109	1366	1376	1384	rBV	1893492	3240314	100.00%	20.309%
7	11.414	1583	1590	1602	rBV	1653599	2693255	83.12%	16.881%
8	12.408	1745	1753	1764	rBV2	1205340	2037006	62.86%	12.767%
9	13.346	1899	1907	1917	rBV	1130421	1751375	54.05%	10.977%
10	13.883	1989	1995	2001	rVB	38255	60878	1.88%	0.382%

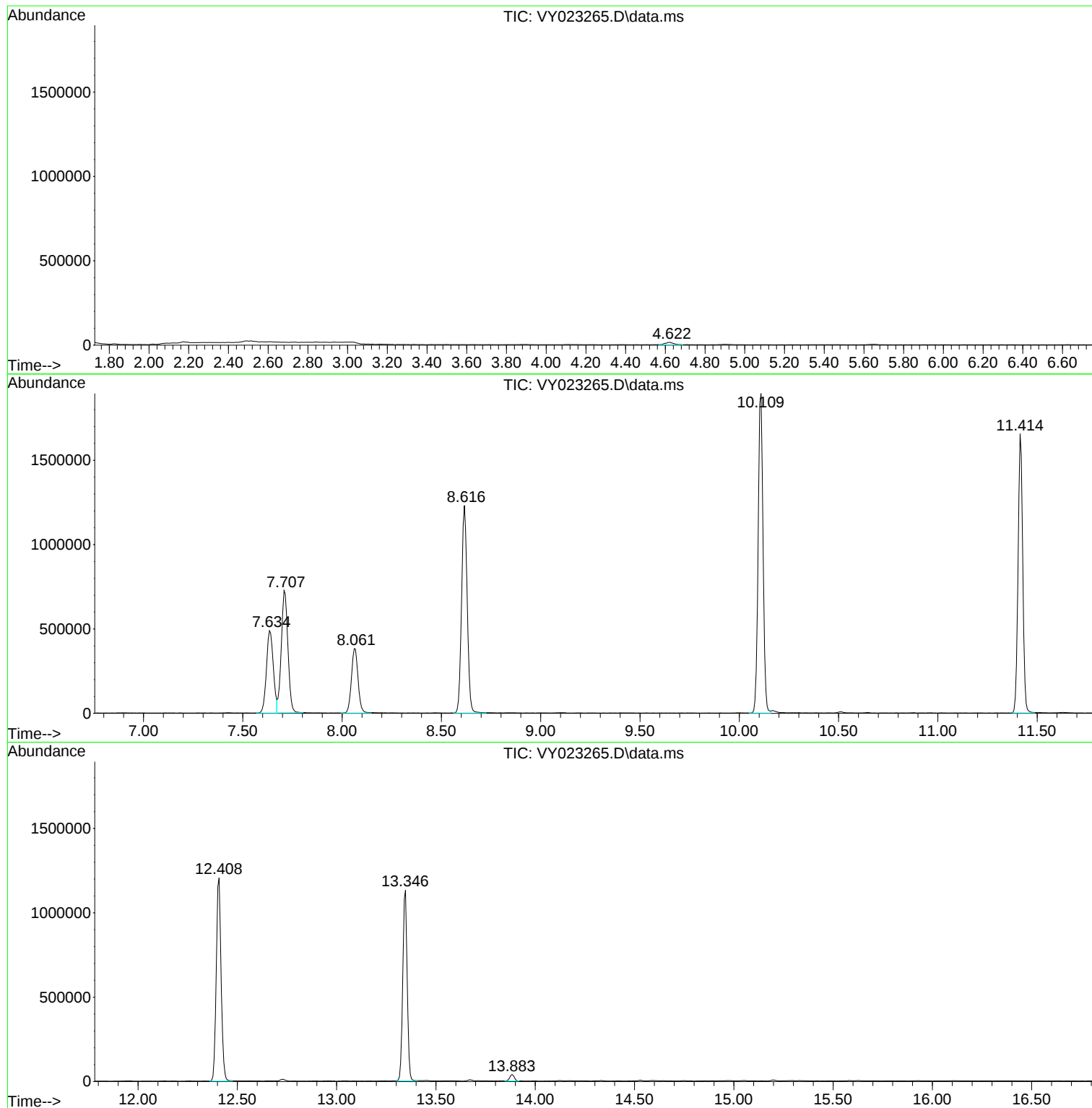
Sum of corrected areas: 15954804

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023265.D
Acq On : 02 Sep 2025 15:10
Operator : SY/MD
Sample : Q2994-01
Misc : 5.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PAULDING-WC1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023265.D
Acq On : 02 Sep 2025 15:10
Operator : SY/MD
Sample : Q2994-01
Misc : 5.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PAULDING-WC1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY090225\
Data File : VY023265.D
Acq On : 02 Sep 2025 15:10
Operator : SY/MD
Sample : Q2994-01
Misc : 5.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PAULDING-WC1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG No.: Q2994

Instrument ID: MSVOA_Y

Calibration Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 14:54 16:47

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

LAB FILE ID:		RRF005 = VY023050.D		RRF010 = VY023051.D		RRF020 = VY023052.D			
		RRF050 = VY023053.D		RRF100 = VY023054.D		RRF150 = VY023055.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.487	0.463	0.460	0.348	0.337	0.354	0.408	16.8	
Chloromethane	0.699	0.707	0.736	0.607	0.603	0.613	0.661	9	
Vinyl Chloride	0.868	0.870	0.875	0.769	0.754	0.766	0.817	7.3	
Bromomethane	0.673	0.638	0.653	0.540	0.576	0.581	0.610	8.5	
Chloroethane	0.585	0.567	0.569	0.515	0.508	0.516	0.543	6.2	
Trichlorofluoromethane	1.059	1.044	1.048	0.937	0.900	0.974	0.994	6.7	
1,1,2-Trichlorotrifluoroethane	0.522	0.519	0.521	0.462	0.445	0.472	0.490	7	
1,1-Dichloroethene	0.492	0.505	0.502	0.463	0.454	0.475	0.482	4.4	
Acetone	0.110	0.111	0.106	0.103	0.094	0.096	0.103	6.9	
Carbon Disulfide	1.656	1.663	1.662	1.491	1.453	1.501	1.571	6.3	
Methyl tert-butyl Ether	1.181	1.268	1.296	1.236	1.202	1.308	1.249	4.1	
Methyl Acetate	0.299	0.308	0.325	0.322	0.280	0.309	0.307	5.4	
Methylene Chloride	0.861	0.706	0.606	0.510	0.511	0.524	0.620	22.7	
trans-1,2-Dichloroethene	0.535	0.561	0.559	0.523	0.520	0.550	0.541	3.3	
1,1-Dichloroethane	0.929	0.969	0.984	0.918	0.907	0.945	0.942	3.1	
Cyclohexane	1.040	0.934	0.905	0.816	0.792	0.838	0.888	10.4	
2-Butanone	0.135	0.152	0.143	0.142	0.129	0.142	0.140	5.5	
Carbon Tetrachloride	0.490	0.486	0.505	0.466	0.466	0.484	0.483	3.1	
cis-1,2-Dichloroethene	0.621	0.624	0.645	0.607	0.610	0.648	0.626	2.8	
Bromochloromethane	0.367	0.379	0.393	0.365	0.367	0.371	0.374	2.9	
Chloroform	0.969	0.997	1.002	0.943	0.936	0.981	0.971	2.8	
1,1,1-Trichloroethane	0.862	0.877	0.899	0.837	0.833	0.864	0.862	2.8	
Methylcyclohexane	0.574	0.579	0.605	0.566	0.575	0.614	0.586	3.3	
Benzene	1.354	1.375	1.430	1.334	1.334	1.395	1.370	2.8	
1,2-Dichloroethane	0.353	0.370	0.371	0.347	0.339	0.359	0.356	3.6	
Trichloroethene	0.354	0.355	0.373	0.341	0.342	0.359	0.354	3.3	
1,2-Dichloropropane	0.303	0.321	0.326	0.309	0.309	0.325	0.315	3.1	
Bromodichloromethane	0.446	0.464	0.489	0.459	0.456	0.481	0.466	3.5	
4-Methyl-2-Pentanone	0.168	0.201	0.200	0.199	0.190	0.211	0.195	7.7	
Toluene	0.817	0.851	0.902	0.858	0.873	0.921	0.870	4.3	

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CORE02
 Lab Code: ACE SDG No.: Q2994
 Instrument ID: MSVOA_Y Calibration Date(s): 08/12/2025 08/12/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 14:54 16:47
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY023050.D		RRF010 = VY023051.D		RRF020 = VY023052.D			
		RRF050 = VY023053.D		RRF100 = VY023054.D		RRF150 = VY023055.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.377	0.410	0.435	0.420	0.428	0.459	0.422	6.5	
cis-1,3-Dichloropropene	0.457	0.486	0.513	0.496	0.500	0.540	0.499	5.5	
1,1,2-Trichloroethane	0.230	0.242	0.253	0.239	0.236	0.254	0.242	4	
2-Hexanone	0.112	0.134	0.137	0.136	0.131	0.146	0.133	8.6	
Dibromochloromethane	0.300	0.317	0.326	0.318	0.316	0.340	0.320	4.1	
1,2-Dibromoethane	0.206	0.232	0.237	0.226	0.222	0.242	0.228	5.6	
Tetrachloroethene	0.477	0.463	0.475	0.435	0.393	0.437	0.446	7.2	
Chlorobenzene	1.062	1.070	1.116	1.055	1.057	1.111	1.079	2.6	
Ethyl Benzene	1.775	1.795	1.894	1.859	1.858	1.956	1.856	3.6	
m/p-Xylenes	0.676	0.699	0.745	0.718	0.737	0.774	0.725	4.8	
o-Xylene	0.605	0.643	0.696	0.686	0.702	0.742	0.679	7.1	
Styrene	0.945	1.023	1.140	1.123	1.176	1.254	1.110	10	
Bromoform	0.197	0.213	0.216	0.214	0.213	0.231	0.214	5	
Isopropylbenzene	3.420	3.483	3.602	3.505	3.514	3.650	3.529	2.4	
1,1,2,2-Tetrachloroethane	0.584	0.647	0.605	0.585	0.581	0.613	0.603	4.2	
1,3-Dichlorobenzene	1.600	1.642	1.701	1.610	1.656	1.752	1.660	3.5	
1,4-Dichlorobenzene	1.687	1.657	1.680	1.601	1.597	1.660	1.647	2.3	
1,2-Dichlorobenzene	1.410	1.472	1.496	1.420	1.438	1.499	1.456	2.7	
1,2-Dibromo-3-Chloropropane	0.093	0.096	0.094	0.095	0.086	0.098	0.094	4.3	
1,2,4-Trichlorobenzene	0.788	0.839	0.881	0.847	0.856	0.955	0.861	6.4	
1,2,3-Trichlorobenzene	0.685	0.733	0.752	0.720	0.727	0.834	0.742	6.7	
1,2-Dichloroethane-d4	0.491	0.490	0.482	0.462	0.472	0.462	0.477	2.7	
Dibromofluoromethane	0.290	0.299	0.301	0.293	0.307	0.305	0.299	2.1	
Toluene-d8	1.151	1.157	1.173	1.143	1.202	1.186	1.169	1.9	
4-Bromofluorobenzene	0.358	0.367	0.367	0.370	0.399	0.394	0.376	4.4	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y081225S.M
 Title : SW846 8260
 Last Update : Wed Aug 13 02:10:11 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY023050.D 10 =VY023051.D 20 =VY023052.D 50 =VY023053.D 100 =VY023054.D 150 =VY023055.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.487	0.463	0.460	0.348	0.337	0.354	0.408	16.79
3) P	Chloromethane	0.699	0.707	0.736	0.607	0.603	0.613	0.661	9.01
4) C	Vinyl Chloride	0.868	0.870	0.875	0.769	0.754	0.766	0.817	7.29#
5) T	Bromomethane	0.673	0.638	0.653	0.540	0.576	0.581	0.610	8.52
6) T	Chloroethane	0.585	0.567	0.569	0.515	0.508	0.516	0.543	6.19
7) T	Trichlorofluor...	1.059	1.044	1.048	0.937	0.900	0.974	0.994	6.68
8) T	Diethyl Ether	0.271	0.276	0.271	0.251	0.245	0.264	0.263	4.69
9) T	1,1,2-Trichlor...	0.522	0.519	0.521	0.462	0.445	0.472	0.490	7.01
10) T	Methyl Iodide	0.468	0.491	0.539	0.549	0.564	0.563	0.529	7.57
11) T	Tert butyl alc...	0.033	0.037	0.033	0.032	0.029	0.033	0.033	7.44
12) CM	1,1-Dichloroet...	0.492	0.505	0.502	0.463	0.454	0.475	0.482	4.38#
13) T	Acrolein	0.048	0.055	0.050	0.045	0.043	0.046	0.048	8.57
14) T	Allyl chloride	0.734	0.718	0.724	0.686	0.681	0.712	0.709	3.01
15) T	Acrylonitrile	0.101	0.114	0.112	0.106	0.100	0.109	0.107	5.51
16) T	Acetone	0.110	0.111	0.106	0.103	0.094	0.096	0.103	6.89
17) T	Carbon Disulfide	1.656	1.663	1.662	1.491	1.453	1.501	1.571	6.30
18) T	Methyl Acetate	0.299	0.308	0.325	0.322	0.280	0.309	0.307	5.37
19) T	Methyl tert-bu...	1.181	1.268	1.296	1.236	1.202	1.308	1.249	4.09
20) T	Methylene Chlo...	0.861	0.706	0.606	0.510	0.511	0.524	0.620	22.69
21) T	trans-1,2-Dich...	0.535	0.561	0.559	0.523	0.520	0.550	0.541	3.28
22) T	Diisopropyl ether	1.442	1.565	1.609	1.512	1.510	1.605	1.541	4.21
23) T	Vinyl Acetate	0.790	0.875	0.875	0.841	0.830	0.899	0.852	4.62
24) P	1,1-Dichloroet...	0.929	0.969	0.984	0.918	0.907	0.945	0.942	3.15
25) T	2-Butanone	0.135	0.152	0.143	0.142	0.129	0.142	0.140	5.51
26) T	2,2-Dichloropr...	0.837	0.830	0.844	0.790	0.776	0.800	0.813	3.43
27) T	cis-1,2-Dichlo...	0.621	0.624	0.645	0.607	0.610	0.648	0.626	2.77
28) T	Bromochloromet...	0.367	0.379	0.393	0.365	0.367	0.371	0.374	2.88
29) T	Tetrahydrofuran	0.084	0.091	0.089	0.087	0.081	0.091	0.087	4.62
30) C	Chloroform	0.969	0.997	1.002	0.943	0.936	0.981	0.971	2.81#
31) T	Cyclohexane	1.040	0.934	0.905	0.816	0.792	0.838	0.888	10.35
32) T	1,1,1-Trichlor...	0.862	0.877	0.899	0.837	0.833	0.864	0.862	2.85
33) S	1,2-Dichloroet...	0.491	0.490	0.482	0.462	0.472	0.462	0.477	2.74
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.290	0.299	0.301	0.293	0.307	0.305	0.299	2.14
36) T	1,1-Dichloropr...	0.442	0.455	0.461	0.433	0.429	0.447	0.445	2.81
37) T	Ethyl Acetate	0.167	0.197	0.196	0.188	0.178	0.195	0.187	6.52
38) T	Carbon Tetrach...	0.490	0.486	0.505	0.466	0.466	0.484	0.483	3.08
39) T	Methylcyclohexane	0.574	0.579	0.605	0.566	0.575	0.614	0.586	3.35
40) TM	Benzene	1.354	1.375	1.430	1.334	1.334	1.395	1.370	2.76
41) T	Methacrylonitrile	0.113	0.107	0.111	0.110	0.102	0.103	0.108	4.05
42) TM	1,2-Dichloroet...	0.353	0.370	0.371	0.347	0.339	0.359	0.356	3.59
43) T	Isopropyl Acetate	0.352	0.383	0.388	0.373	0.362	0.407	0.378	5.16
44) TM	Trichloroethene	0.354	0.355	0.373	0.341	0.342	0.359	0.354	3.35
45) C	1,2-Dichloropr...	0.303	0.321	0.326	0.309	0.309	0.325	0.315	3.08#
46) T	Dibromomethane	0.166	0.189	0.187	0.178	0.176	0.190	0.181	5.14
47) T	Bromodichlorom...	0.446	0.464	0.489	0.459	0.456	0.481	0.466	3.47
48) T	Methyl methacr...	0.149	0.180	0.189	0.188	0.182	0.196	0.181	9.18
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	6.71
50) S	Toluene-d8	1.151	1.157	1.173	1.143	1.202	1.186	1.169	1.92
51) T	4-Methyl-2-Pen...	0.168	0.201	0.200	0.199	0.190	0.211	0.195	7.67
52) CM	Toluene	0.817	0.851	0.902	0.858	0.873	0.921	0.870	4.28#
53) T	t-1,3-Dichloro...	0.377	0.410	0.435	0.420	0.428	0.459	0.422	6.47
54) T	cis-1,3-Dichlo...	0.457	0.486	0.513	0.496	0.500	0.540	0.499	5.54
55) T	1,1,2-Trichlor...	0.230	0.242	0.253	0.239	0.236	0.254	0.242	3.96
56) T	Ethyl methacry...	0.247	0.298	0.312	0.320	0.323	0.359	0.310	11.84

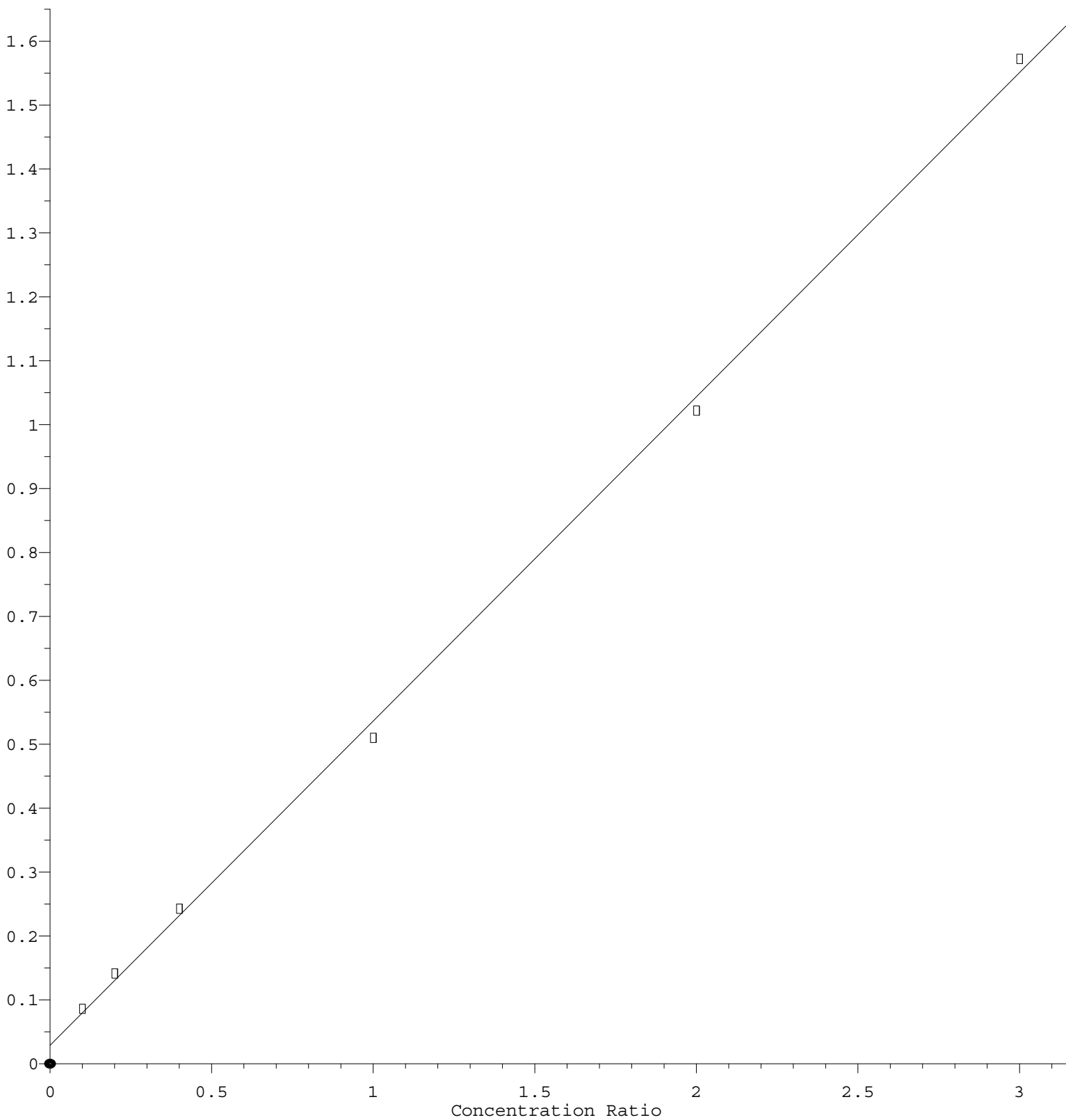
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y081225S.M

57)	T	1,3-Dichloropr...	0.385	0.421	0.429	0.405	0.395	0.429	0.411	4.52
58)	T	2-Chloroethyl ...	0.114	0.135	0.144	0.155	0.158	0.171	0.146	13.68
59)	T	2-Hexanone	0.112	0.134	0.137	0.136	0.131	0.146	0.133	8.57
60)	T	Dibromochlorom...	0.300	0.317	0.326	0.318	0.316	0.340	0.320	4.09
61)	T	1,2-Dibromoethane	0.206	0.232	0.237	0.226	0.222	0.242	0.228	5.60
62)	S	4-Bromofluorob...	0.358	0.367	0.367	0.370	0.399	0.394	0.376	4.41
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.477	0.463	0.475	0.435	0.393	0.437	0.446	7.16
65)	PM	Chlorobenzene	1.062	1.070	1.116	1.055	1.057	1.111	1.079	2.55
66)	T	1,1,1,2-Tetrac...	0.347	0.360	0.378	0.362	0.365	0.384	0.366	3.58
67)	C	Ethyl Benzene	1.775	1.795	1.894	1.859	1.858	1.956	1.856	3.56#
68)	T	m/p-Xylenes	0.676	0.699	0.745	0.718	0.737	0.774	0.725	4.80
69)	T	o-Xylene	0.605	0.643	0.696	0.686	0.702	0.742	0.679	7.13
70)	T	Styrene	0.945	1.023	1.140	1.123	1.176	1.254	1.110	9.96
71)	P	Bromoform	0.197	0.213	0.216	0.214	0.213	0.231	0.214	5.03
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	3.420	3.483	3.602	3.505	3.514	3.650	3.529	2.36
74)	T	N-amyl acetate	0.633	0.738	0.757	0.767	0.756	0.840	0.748	8.89
75)	P	1,1,2,2-Tetrac...	0.584	0.647	0.605	0.585	0.581	0.613	0.603	4.20
76)	T	1,2,3-Trichlor...	0.551	0.483	0.472	0.535	0.409	0.444	0.483	11.18
77)	T	Bromobenzene	0.824	0.830	0.866	0.828	0.831	0.873	0.842	2.58
78)	T	n-propylbenzene	4.052	4.149	4.317	4.217	4.158	4.315	4.201	2.46
79)	T	2-Chlorotoluene	2.349	2.398	2.464	2.382	2.390	2.461	2.407	1.90
80)	T	1,3,5-Trimethy...	2.672	2.811	2.932	2.859	2.872	2.966	2.852	3.64
81)	T	trans-1,4-Dich...	0.181	0.215	0.203	0.197	0.190	0.210	0.199	6.43
82)	T	4-Chlorotoluene	2.427	2.486	2.600	2.462	2.460	2.548	2.497	2.59
83)	T	tert-Butylbenzene	2.428	2.481	2.626	2.588	2.630	2.702	2.576	3.98
84)	T	1,2,4-Trimethy...	2.596	2.760	2.955	2.837	2.894	2.993	2.839	5.12
85)	T	sec-Butylbenzene	3.637	3.749	3.881	3.773	3.781	3.882	3.784	2.42
86)	T	p-Isopropyltol...	2.878	2.978	3.241	3.167	3.230	3.350	3.141	5.66
87)	T	1,3-Dichlorobe...	1.600	1.642	1.701	1.610	1.656	1.752	1.660	3.46
88)	T	1,4-Dichlorobe...	1.687	1.657	1.680	1.601	1.597	1.660	1.647	2.35
89)	T	n-Butylbenzene	2.625	2.809	2.972	2.911	2.933	3.059	2.885	5.24
90)	T	Hexachloroethane	0.638	0.648	0.650	0.630	0.632	0.660	0.643	1.83
91)	T	1,2-Dichlorobe...	1.410	1.472	1.496	1.420	1.438	1.499	1.456	2.65
92)	T	1,2-Dibromo-3-...	0.093	0.096	0.094	0.095	0.086	0.098	0.094	4.27
93)	T	1,2,4-Trichlor...	0.788	0.839	0.881	0.847	0.856	0.955	0.861	6.43
94)	T	Hexachlorobuta...	0.533	0.506	0.522	0.491	0.480	0.504	0.506	3.85
95)	T	Naphthalene	1.204	1.364	1.462	1.488	1.500	1.791	1.468	13.14
96)	T	1,2,3-Trichlor...	0.685	0.733	0.752	0.720	0.727	0.834	0.742	6.73

(#) = Out of Range

Methylene Chloride

Response Ratio



$$\text{Response} = 5.073\text{e-}001 * \text{Amt} + 2.916\text{e-}002$$

Coef of Det (r^2) = 0.998910 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y081225S.M

Calibration Table Last Updated: Wed Aug 13 02:10:11 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023050.D
 Acq On : 12 Aug 2025 14:54
 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 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	561390	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	904866	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	759914	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	360397	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	27563	5.152	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	10.300%#		
35) Dibromofluoromethane	7.634	113	26265	4.851	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	9.700%#		
50) Toluene-d8	10.103	98	104144	4.924	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	9.840%#		
62) 4-Bromofluorobenzene	12.402	95	32420	4.766	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	9.540%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	27351	5.969	ug/l	96
3) Chloromethane	2.068	50	39269	5.291	ug/l	98
4) Vinyl Chloride	2.202	62	48736	5.312	ug/l	99
5) Bromomethane	2.592	94	37773	5.513	ug/l	97
6) Chloroethane	2.732	64	32816	5.380	ug/l	98
7) Trichlorofluoromethane	3.050	101	59438	5.328	ug/l	99
8) Diethyl Ether	3.452	74	15231	5.160	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	29291	5.322	ug/l	98
10) Methyl Iodide	3.994	142	26272	4.424	ug/l	98
11) Tert butyl alcohol	4.866	59	9219	25.147	ug/l #	92
12) 1,1-Dichloroethene	3.787	96	27635	5.108	ug/l	87
13) Acrolein	3.647	56	13391	24.941	ug/l	95
14) Allyl chloride	4.372	41	41201	5.176	ug/l	94
15) Acrylonitrile	5.061	53	28255	23.547	ug/l	95
16) Acetone	3.866	43	30803	26.574	ug/l	98
17) Carbon Disulfide	4.098	76	92964	5.270	ug/l	96
18) Methyl Acetate	4.379	43	16806	4.872	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	66308	4.730	ug/l	98
20) Methylene Chloride	4.604	84	48322	5.657	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	30021	4.938	ug/l	97
22) Diisopropyl ether	6.012	45	80938	4.679	ug/l	91
23) Vinyl Acetate	5.958	43	221862	23.196	ug/l	97
24) 1,1-Dichloroethane	5.909	63	52152	4.931	ug/l	99
25) 2-Butanone	6.890	43	37821	23.991	ug/l	97
26) 2,2-Dichloropropane	6.878	77	46964	5.147	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	34877	4.962	ug/l	97
28) Bromochloromethane	7.238	49	20615	4.913	ug/l	96
29) Tetrahydrofuran	7.256	42	23487	24.035	ug/l	96
30) Chloroform	7.415	83	54392	4.987	ug/l	96
31) Cyclohexane	7.701	56	58362	5.856	ug/l #	83
32) 1,1,1-Trichloroethane	7.610	97	48413	5.003	ug/l	99
36) 1,1-Dichloropropene	7.829	75	39978	4.968	ug/l	99
37) Ethyl Acetate	6.982	43	15080	4.461	ug/l #	95
38) Carbon Tetrachloride	7.811	117	44360	5.076	ug/l	99
39) Methylcyclohexane	9.103	83	51931	4.901	ug/l	99
40) Benzene	8.073	78	122482	4.939	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023050.D
 Acq On : 12 Aug 2025 14:54
 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 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	10246m	5.247	ug/l	
42) 1,2-Dichloroethane	8.152	62	31902	4.946	ug/l	98
43) Isopropyl Acetate	8.195	43	31890	4.668	ug/l	100
44) Trichloroethene	8.859	130	32050	5.001	ug/l	93
45) 1,2-Dichloropropane	9.134	63	27418	4.805	ug/l	93
46) Dibromomethane	9.225	93	15033	4.590	ug/l	97
47) Bromodichloromethane	9.420	83	40327	4.785	ug/l	98
48) Methyl methacrylate	9.219	41	13477	4.122	ug/l	90
49) 1,4-Dioxane	9.231	88	3454	89.939	ug/l #	91
51) 4-Methyl-2-Pentanone	9.993	43	75891	21.535	ug/l	100
52) Toluene	10.164	92	73910	4.692	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	34154	4.475	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	41326	4.579	ug/l	97
55) 1,1,2-Trichloroethane	10.566	97	20795	4.745	ug/l	98
56) Ethyl methacrylate	10.432	69	22376	3.990	ug/l	99
57) 1,3-Dichloropropane	10.713	76	34835	4.687	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	51585	19.500	ug/l	100
59) 2-Hexanone	10.755	43	50604	21.088	ug/l	97
60) Dibromochloromethane	10.908	129	27141	4.693	ug/l	100
61) 1,2-Dibromoethane	11.012	107	18652	4.528	ug/l	97
64) Tetrachloroethene	10.640	164	36210	5.336	ug/l	97
65) Chlorobenzene	11.438	112	80684	4.922	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.511	131	26397	4.745	ug/l	94
67) Ethyl Benzene	11.511	91	134854	4.781	ug/l	99
68) m/p-Xylenes	11.621	106	102783	9.329	ug/l	97
69) o-Xylene	11.950	106	45944	4.453	ug/l	94
70) Styrene	11.963	104	71801	4.255	ug/l	97
71) Bromoform	12.127	173	14954	4.599	ug/l #	94
73) Isopropylbenzene	12.249	105	123246	4.845	ug/l	99
74) N-amyl acetate	12.066	43	22829	4.232	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.499	83	21057	4.848	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	19875m	5.710	ug/l	
77) Bromobenzene	12.530	156	29681	4.891	ug/l	100
78) n-propylbenzene	12.590	91	146043	4.822	ug/l	99
79) 2-Chlorotoluene	12.670	91	84671	4.880	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	96308	4.685	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	6514	4.533	ug/l	89
82) 4-Chlorotoluene	12.773	91	87454	4.859	ug/l	99
83) tert-Butylbenzene	12.993	119	87496	4.712	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	93551	4.571	ug/l	100
85) sec-Butylbenzene	13.170	105	131079	4.806	ug/l	99
86) p-Isopropyltoluene	13.285	119	103731	4.582	ug/l	99
87) 1,3-Dichlorobenzene	13.279	146	57668	4.819	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	60781	5.120	ug/l	97
89) n-Butylbenzene	13.609	91	94594	4.549	ug/l	98
90) Hexachloroethane	13.871	117	22980	4.958	ug/l	97
91) 1,2-Dichlorobenzene	13.651	146	50829	4.843	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	3369	4.982	ug/l	93
93) 1,2,4-Trichlorobenzene	14.913	180	28399	4.576	ug/l	98
94) Hexachlorobutadiene	15.017	225	19196	5.263	ug/l	96
95) Naphthalene	15.133	128	43395	4.100	ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	24703	4.619	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
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 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

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

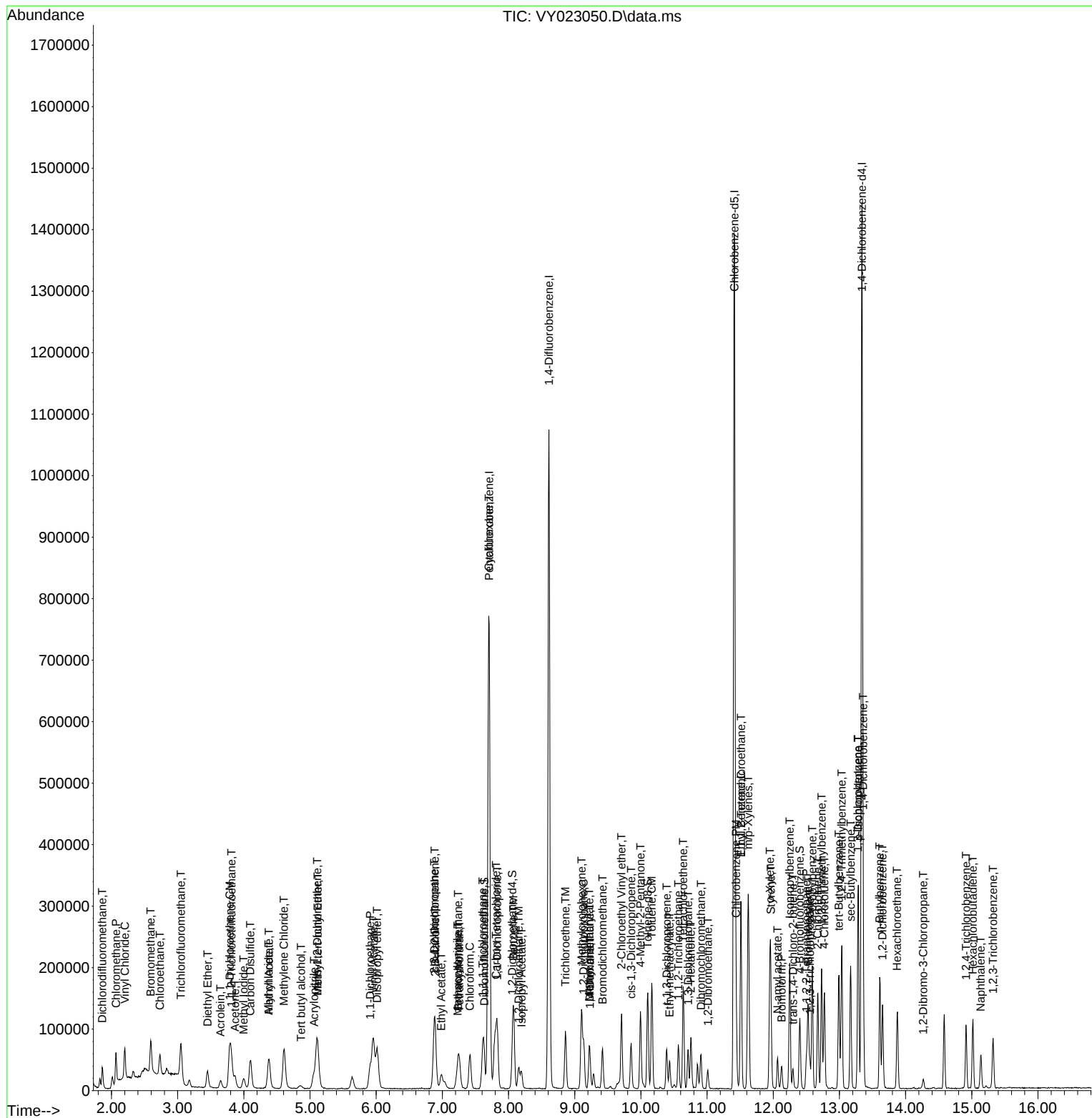
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDIC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023051.D
 Acq On : 12 Aug 2025 15:17
 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 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.701	168	551522	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	883548	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	761327	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	365647	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	54002	10.274	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.540%#		
35) Dibromofluoromethane	7.628	113	52916	10.009	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.020%#		
50) Toluene-d8	10.103	98	204532	9.903	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	19.800%#		
62) 4-Bromofluorobenzene	12.401	95	64927	9.775	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	19.540%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	51022	11.334	ug/l	95
3) Chloromethane	2.068	50	77982	10.695	ug/l	97
4) Vinyl Chloride	2.202	62	95983	10.649	ug/l	99
5) Bromomethane	2.592	94	70415	10.461	ug/l	99
6) Chloroethane	2.732	64	62514	10.432	ug/l	97
7) Trichlorofluoromethane	3.049	101	115150	10.507	ug/l	94
8) Diethyl Ether	3.452	74	30390	10.481	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	57210	10.581	ug/l	100
10) Methyl Iodide	4.001	142	54184	9.287	ug/l	99
11) Tert butyl alcohol	4.866	59	20212	56.119	ug/l	99
12) 1,1-Dichloroethene	3.781	96	55669	10.475	ug/l	92
13) Acrolein	3.647	56	30081	57.030	ug/l	97
14) Allyl chloride	4.372	41	79145	10.121	ug/l	98
15) Acrylonitrile	5.049	53	62889	53.349	ug/l	99
16) Acetone	3.873	43	61290	53.821	ug/l	94
17) Carbon Disulfide	4.098	76	183399	10.583	ug/l	98
18) Methyl Acetate	4.385	43	33996	10.032	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	139820	10.153	ug/l	95
20) Methylene Chloride	4.604	84	77920	11.095	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	61826	10.352	ug/l	100
22) Diisopropyl ether	6.012	45	172602	10.157	ug/l	93
23) Vinyl Acetate	5.957	43	482714	51.372	ug/l	98
24) 1,1-Dichloroethane	5.903	63	106831	10.282	ug/l	99
25) 2-Butanone	6.896	43	83923	54.187	ug/l	96
26) 2,2-Dichloropropane	6.878	77	91579	10.215	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	68839	9.970	ug/l	99
28) Bromochloromethane	7.238	49	41820	10.146	ug/l	100
29) Tetrahydrofuran	7.262	42	49926	52.005	ug/l	99
30) Chloroform	7.415	83	109942	10.260	ug/l	93
31) Cyclohexane	7.701	56	103068	10.527	ug/l #	89
32) 1,1,1-Trichloroethane	7.616	97	96693	10.170	ug/l	98
36) 1,1-Dichloropropene	7.829	75	80479	10.243	ug/l	99
37) Ethyl Acetate	6.982	43	34854	10.560	ug/l	97
38) Carbon Tetrachloride	7.811	117	85932	10.070	ug/l	97
39) Methylcyclohexane	9.103	83	102275	9.885	ug/l	99
40) Benzene	8.073	78	243060	10.037	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023051.D
 Acq On : 12 Aug 2025 15:17
 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 08/14/2025

Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M

Quant Title : SW846 8260

QLast Update : Wed Aug 13 01:46:43 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	18825	9.872	ug/l #	89
42) 1,2-Dichloroethane	8.152	62	65350	10.376	ug/l	99
43) Isopropyl Acetate	8.195	43	67669	10.144	ug/l	99
44) Trichloroethene	8.859	130	62689	10.017	ug/l	98
45) 1,2-Dichloropropane	9.134	63	56720	10.179	ug/l	97
46) Dibromomethane	9.225	93	33460	10.462	ug/l	98
47) Bromodichloromethane	9.420	83	81951	9.959	ug/l	97
48) Methyl methacrylate	9.213	41	31851	9.978	ug/l	96
49) 1,4-Dioxane	9.231	88	7705	205.471	ug/l	94
51) 4-Methyl-2-Pentanone	9.993	43	177157	51.484	ug/l	98
52) Toluene	10.164	92	150422	9.780	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	72507	9.730	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	85945	9.753	ug/l	100
55) 1,1,2-Trichloroethane	10.566	97	42712	9.981	ug/l	97
56) Ethyl methacrylate	10.432	69	52746	9.632	ug/l	98
57) 1,3-Dichloropropane	10.713	76	74433	10.256	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	119417	46.232	ug/l	98
59) 2-Hexanone	10.755	43	118452	50.553	ug/l	99
60) Dibromochloromethane	10.902	129	56045	9.925	ug/l	99
61) 1,2-Dibromoethane	11.011	107	41009	10.196	ug/l	99
64) Tetrachloroethene	10.640	164	70502	10.371	ug/l	98
65) Chlorobenzene	11.438	112	162985	9.925	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.511	131	54856	9.842	ug/l	97
67) Ethyl Benzene	11.511	91	273281	9.670	ug/l	99
68) m/p-Xylenes	11.621	106	212766	19.277	ug/l	99
69) o-Xylene	11.950	106	97841	9.465	ug/l	98
70) Styrene	11.963	104	155809	9.216	ug/l	99
71) Bromoform	12.127	173	32470	9.968	ug/l #	97
73) Isopropylbenzene	12.249	105	254745	9.871	ug/l	99
74) N-amyl acetate	12.066	43	53943	9.857	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.499	83	47304	10.735	ug/l	99
76) 1,2,3-Trichloropropane	12.548	75	35353m	10.012	ug/l	
77) Bromobenzene	12.523	156	60728	9.864	ug/l	96
78) n-propylbenzene	12.590	91	303440	9.876	ug/l	100
79) 2-Chlorotoluene	12.676	91	175364	9.962	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	205544	9.855	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	15715	10.780	ug/l	96
82) 4-Chlorotoluene	12.767	91	181812	9.956	ug/l	99
83) tert-Butylbenzene	12.993	119	181408	9.630	ug/l	99
84) 1,2,4-Trimethylbenzene	13.035	105	201812	9.720	ug/l	100
85) sec-Butylbenzene	13.170	105	274178	9.908	ug/l	99
86) p-Isopropyltoluene	13.285	119	217799	9.482	ug/l	98
87) 1,3-Dichlorobenzene	13.279	146	120109	9.893	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	121160	10.060	ug/l	97
89) n-Butylbenzene	13.609	91	205420	9.737	ug/l	98
90) Hexachloroethane	13.871	117	47353	10.071	ug/l	98
91) 1,2-Dichlorobenzene	13.651	146	107656	10.110	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	7032	10.250	ug/l	98
93) 1,2,4-Trichlorobenzene	14.913	180	61323	9.739	ug/l	99
94) Hexachlorobutadiene	15.017	225	37011	10.003	ug/l	99
95) Naphthalene	15.139	128	99780	9.293	ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	53626	9.883	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
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 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

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

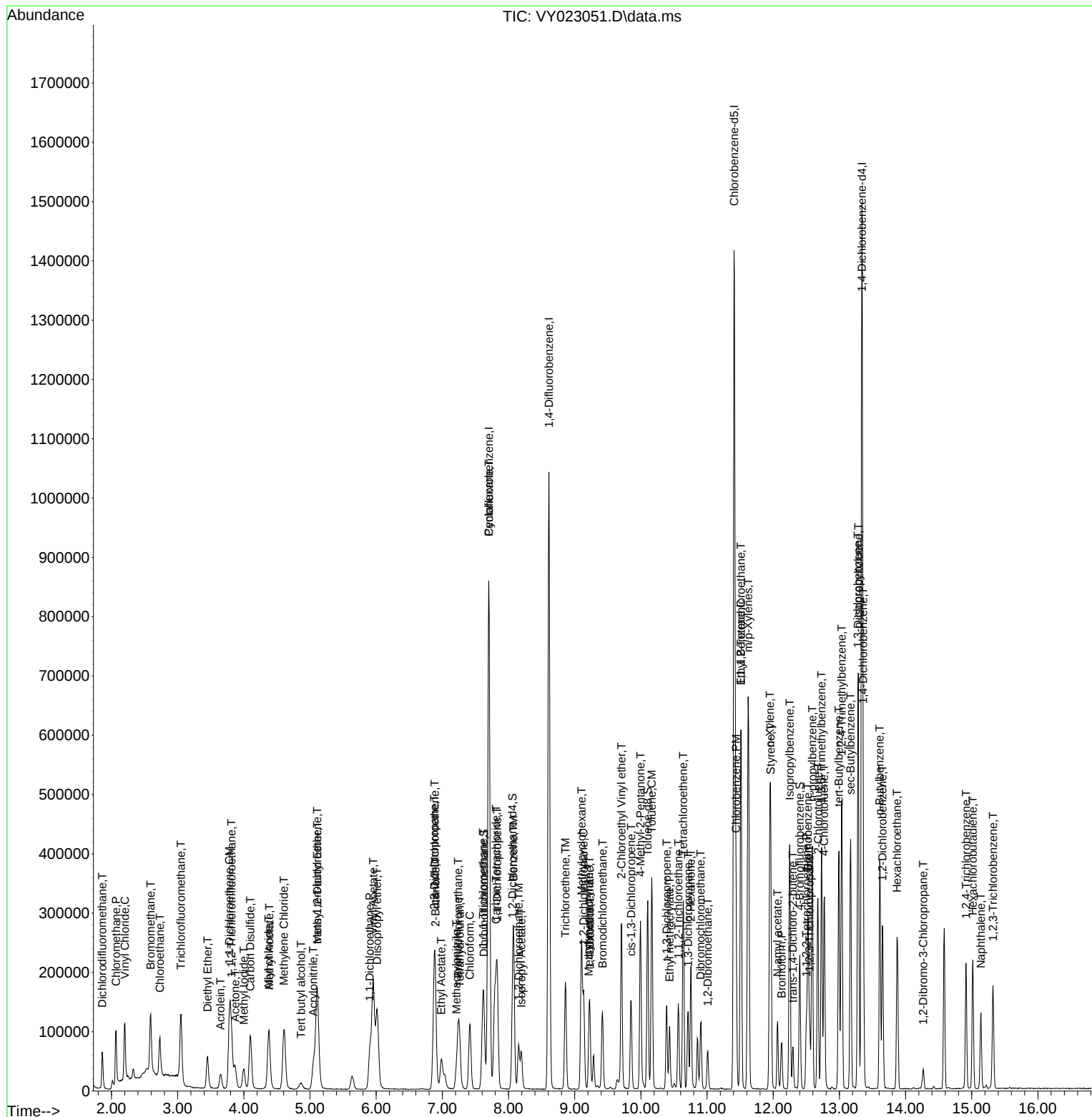
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDIC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023052.D
 Acq On : 12 Aug 2025 15:40
 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 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:52:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	537748	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	848953	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	745484	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	370932	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.055	65	103755	20.244	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	40.480%#
35) Dibromofluoromethane	7.628	113	102068	20.093	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	40.180%#
50) Toluene-d8	10.103	98	398394	20.075	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	40.160%#
62) 4-Bromofluorobenzene	12.402	95	124467	19.503	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	39.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	98926	22.537	ug/l	98
3) Chloromethane	2.068	50	158310	22.268	ug/l	99
4) Vinyl Chloride	2.202	62	188307	21.427	ug/l	99
5) Bromomethane	2.586	94	140517	21.410	ug/l	99
6) Chloroethane	2.726	64	122310	20.934	ug/l	99
7) Trichlorofluoromethane	3.050	101	225373	21.090	ug/l	99
8) Diethyl Ether	3.452	74	58245	20.602	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.805	101	112116	21.267	ug/l	99
10) Methyl Iodide	3.994	142	115879	20.370	ug/l	99
11) Tert butyl alcohol	4.860	59	35192	100.214	ug/l	98
12) 1,1-Dichloroethene	3.781	96	107992	20.840	ug/l	99
13) Acrolein	3.653	56	54065	105.126	ug/l	100
14) Allyl chloride	4.379	41	155709	20.421	ug/l	97
15) Acrylonitrile	5.055	53	120151	104.535	ug/l	97
16) Acetone	3.866	43	113468	102.193	ug/l	96
17) Carbon Disulfide	4.098	76	357484	21.157	ug/l	98
18) Methyl Acetate	4.379	43	69853	21.141	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	278863	20.767	ug/l	99
20) Methylene Chloride	4.610	84	130416	21.069	ug/l	96
21) trans-1,2-Dichloroethene	5.104	96	120321	20.661	ug/l	96
22) Diisopropyl ether	6.012	45	346195	20.894	ug/l	95
23) Vinyl Acetate	5.951	43	941364	102.748	ug/l	97
24) 1,1-Dichloroethane	5.909	63	211558	20.884	ug/l	98
25) 2-Butanone	6.890	43	153363	101.559	ug/l	100
26) 2,2-Dichloropropane	6.878	77	181528	20.767	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	138775	20.613	ug/l	99
28) Bromochloromethane	7.244	49	84540	21.035	ug/l	99
29) Tetrahydrofuran	7.262	42	95795	102.341	ug/l	99
30) Chloroform	7.415	83	215585	20.635	ug/l	98
31) Cyclohexane	7.701	56	194671	20.393	ug/l	96
32) 1,1,1-Trichloroethane	7.610	97	193268	20.848	ug/l	99
36) 1,1-Dichloropropene	7.835	75	156617	20.746	ug/l	98
37) Ethyl Acetate	6.982	43	66420	20.944	ug/l	100
38) Carbon Tetrachloride	7.817	117	171344	20.897	ug/l	98
39) Methylcyclohexane	9.103	83	205594	20.680	ug/l	98
40) Benzene	8.079	78	485631	20.871	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023052.D
 Acq On : 12 Aug 2025 15:40
 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 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:52:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	37785m	20.623	ug/l	
42) 1,2-Dichloroethane	8.152	62	126111	20.839	ug/l	100
43) Isopropyl Acetate	8.195	43	131854	20.571	ug/l	98
44) Trichloroethene	8.859	130	126772	21.083	ug/l	98
45) 1,2-Dichloropropane	9.134	63	110699	20.677	ug/l	99
46) Dibromomethane	9.225	93	63410	20.635	ug/l	98
47) Bromodichloromethane	9.420	83	165954	20.988	ug/l	96
48) Methyl methacrylate	9.219	41	64120	20.905	ug/l	98
49) 1,4-Dioxane	9.225	88	14826	411.480	ug/l	98
51) 4-Methyl-2-Pentanone	9.993	43	339298	102.622	ug/l	100
52) Toluene	10.164	92	306193	20.719	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	147696	20.627	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	174243	20.580	ug/l	96
55) 1,1,2-Trichloroethane	10.566	97	86022	20.920	ug/l	99
56) Ethyl methacrylate	10.432	69	105816	20.111	ug/l	99
57) 1,3-Dichloropropane	10.713	76	145621	20.882	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	244340	98.450	ug/l	99
59) 2-Hexanone	10.755	43	231872	102.992	ug/l	99
60) Dibromochloromethane	10.908	129	110810	20.424	ug/l	99
61) 1,2-Dibromoethane	11.012	107	80549	20.842	ug/l	97
64) Tetrachloroethene	10.640	164	141609	21.273	ug/l	99
65) Chlorobenzene	11.438	112	332700	20.690	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.511	131	112677	20.647	ug/l	99
67) Ethyl Benzene	11.511	91	564855	20.412	ug/l	99
68) m/p-Xylenes	11.621	106	444361	41.115	ug/l	98
69) o-Xylene	11.950	106	207639	20.513	ug/l	99
70) Styrene	11.963	104	339891	20.532	ug/l	99
71) Bromoform	12.127	173	64275	20.151	ug/l #	98
73) Isopropylbenzene	12.249	105	534421	20.413	ug/l	100
74) N-amyl acetate	12.066	43	112297	20.227	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.499	83	89782	20.085	ug/l	100
76) 1,2,3-Trichloropropane	12.548	75	70070m	19.560	ug/l	
77) Bromobenzene	12.523	156	128501	20.574	ug/l	99
78) n-propylbenzene	12.590	91	640528	20.550	ug/l	99
79) 2-Chlorotoluene	12.670	91	365577	20.471	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	435074	20.563	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	30153	20.389	ug/l	97
82) 4-Chlorotoluene	12.773	91	385755	20.822	ug/l	99
83) tert-Butylbenzene	12.993	119	389621	20.389	ug/l	100
84) 1,2,4-Trimethylbenzene	13.036	105	438392	20.814	ug/l	98
85) sec-Butylbenzene	13.170	105	575804	20.512	ug/l	100
86) p-Isopropyltoluene	13.285	119	480937	20.640	ug/l	100
87) 1,3-Dichlorobenzene	13.279	146	252452	20.497	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	249280	20.403	ug/l	99
89) n-Butylbenzene	13.609	91	440963	20.605	ug/l	99
90) Hexachloroethane	13.871	117	96478	20.226	ug/l	98
91) 1,2-Dichlorobenzene	13.651	146	222000	20.552	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	13973	20.076	ug/l	98
93) 1,2,4-Trichlorobenzene	14.913	180	130718	20.464	ug/l	98
94) Hexachlorobutadiene	15.017	225	77511	20.650	ug/l	99
95) Naphthalene	15.139	128	216923	19.915	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	111506	20.258	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
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 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

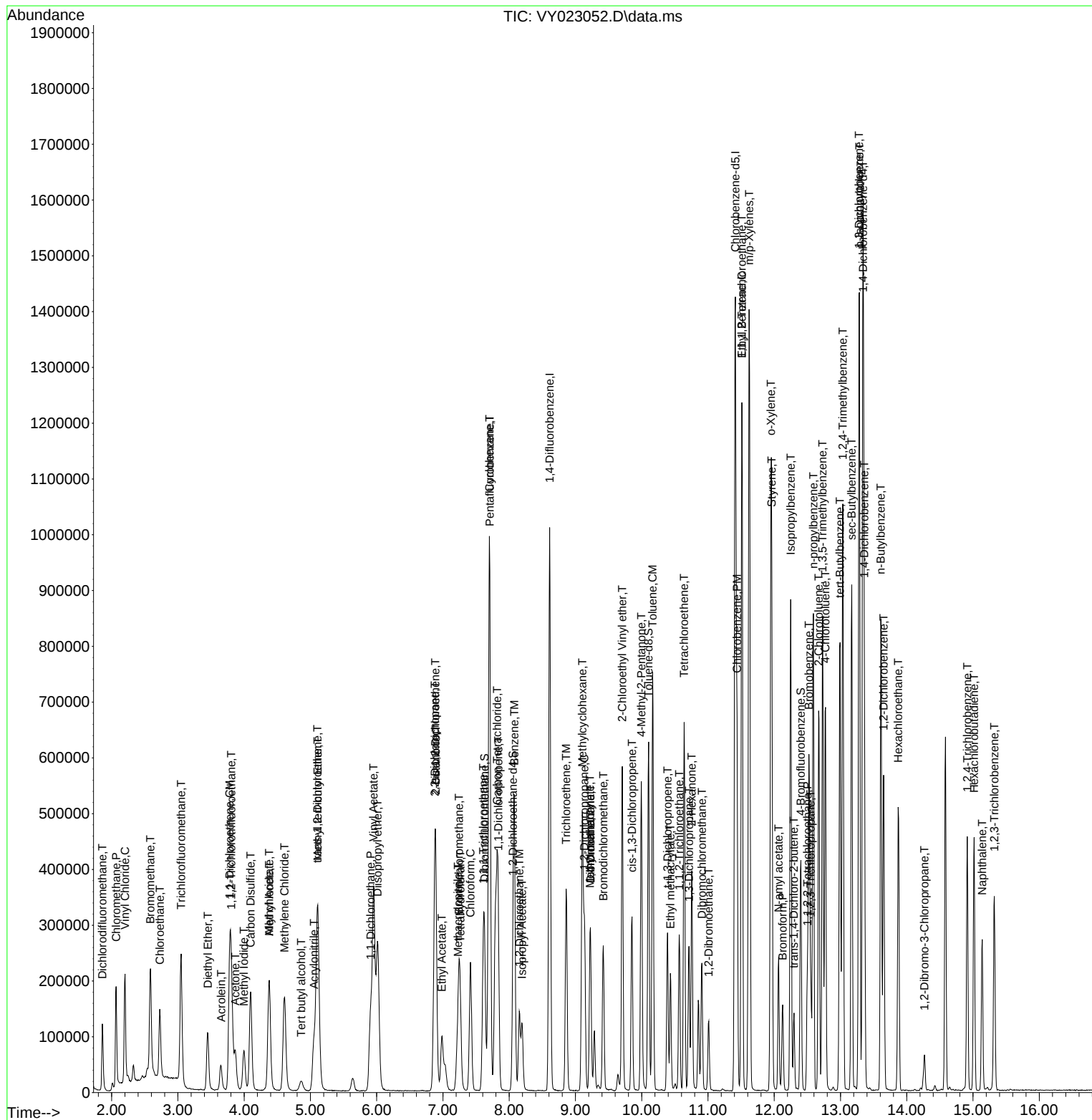
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023053.D
 Acq On : 12 Aug 2025 16:02
 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 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:53:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	539282	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	856556	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	751969	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	377839	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	249044	48.455	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.900%		
35) Dibromofluoromethane	7.628	113	251193	49.010	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.020%		
50) Toluene-d8	10.103	98	979082	48.899	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.800%		
62) 4-Bromofluorobenzene	12.401	95	316770	49.194	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	98.380%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.861	85	187863	42.677	ug/l	100
3) Chloromethane	2.068	50	327481	45.932	ug/l	100
4) Vinyl Chloride	2.196	62	414609	47.044	ug/l	100
5) Bromomethane	2.592	94	291336	44.263	ug/l	100
6) Chloroethane	2.726	64	277698	47.394	ug/l	100
7) Trichlorofluoromethane	3.049	101	505137	47.136	ug/l	100
8) Diethyl Ether	3.446	74	135373	47.747	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.805	101	249063	47.109	ug/l	100
10) Methyl Iodide	3.994	142	296087	51.899	ug/l	100
11) Tert butyl alcohol	4.860	59	85712	243.383	ug/l	100
12) 1,1-Dichloroethene	3.781	96	249492	48.009	ug/l	100
13) Acrolein	3.647	56	121185	234.966	ug/l	100
14) Allyl chloride	4.378	41	369720	48.350	ug/l	100
15) Acrylonitrile	5.049	53	285675	247.839	ug/l	100
16) Acetone	3.860	43	278510	250.122	ug/l	100
17) Carbon Disulfide	4.098	76	804119	47.456	ug/l	100
18) Methyl Acetate	4.378	43	173642	52.403	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	666514	49.495	ug/l	100
20) Methylene Chloride	4.604	84	275004	47.415	ug/l	100
21) trans-1,2-Dichloroethene	5.104	96	282272	48.334	ug/l	100
22) Diisopropyl ether	6.018	45	815359	49.070	ug/l	100
23) Vinyl Acetate	5.951	43	2268046	246.849	ug/l	100
24) 1,1-Dichloroethane	5.909	63	495073	48.732	ug/l	100
25) 2-Butanone	6.884	43	382711	252.715	ug/l	100
26) 2,2-Dichloropropane	6.884	77	425773	48.571	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	327272	48.474	ug/l	100
28) Bromochloromethane	7.244	49	196667	48.795	ug/l	100
29) Tetrahydrofuran	7.256	42	235169	250.523	ug/l	100
30) Chloroform	7.415	83	508641	48.547	ug/l	100
31) Cyclohexane	7.695	56	440266	45.989	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	451521	48.569	ug/l	100
36) 1,1-Dichloropropene	7.829	75	371204	48.734	ug/l	100
37) Ethyl Acetate	6.982	43	160980	50.311	ug/l	100
38) Carbon Tetrachloride	7.817	117	399463	48.285	ug/l	100
39) Methylcyclohexane	9.103	83	484691	48.321	ug/l	100
40) Benzene	8.073	78	1142910	48.683	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023053.D
 Acq On : 12 Aug 2025 16:02
 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 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:53:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	94123	50.916	ug/l	100
42) 1,2-Dichloroethane	8.152	62	296907	48.627	ug/l	100
43) Isopropyl Acetate	8.195	43	319600	49.419	ug/l	100
44) Trichloroethene	8.859	130	292421	48.199	ug/l	100
45) 1,2-Dichloropropane	9.140	63	264354	48.938	ug/l	100
46) Dibromomethane	9.225	93	152822	49.291	ug/l	100
47) Bromodichloromethane	9.420	83	393523	49.327	ug/l	100
48) Methyl methacrylate	9.213	41	160792	51.958	ug/l	100
49) 1,4-Dioxane	9.225	88	36249	997.124	ug/l	100
51) 4-Methyl-2-Pentanone	9.993	43	853025	255.710	ug/l	100
52) Toluene	10.164	92	735326	49.315	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	359698	49.790	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	424834	49.731	ug/l	100
55) 1,1,2-Trichloroethane	10.566	97	204368	49.261	ug/l	100
56) Ethyl methacrylate	10.432	69	273801	51.576	ug/l	100
57) 1,3-Dichloropropane	10.713	76	346510	49.249	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	663351	264.906	ug/l	100
59) 2-Hexanone	10.755	43	584223	257.194	ug/l	100
60) Dibromochloromethane	10.908	129	272171	49.719	ug/l	100
61) 1,2-Dibromoethane	11.005	107	193398	49.598	ug/l	100
64) Tetrachloroethene	10.640	164	327271	48.740	ug/l	100
65) Chlorobenzene	11.438	112	793490	48.920	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.511	131	271839	49.381	ug/l	100
67) Ethyl Benzene	11.511	91	1397704	50.073	ug/l	100
68) m/p-Xylenes	11.621	106	1080401	99.103	ug/l	100
69) o-Xylene	11.950	106	516002	50.536	ug/l	100
70) Styrene	11.962	104	844409	50.569	ug/l	100
71) Bromoform	12.127	173	160769	49.969	ug/l #	100
73) Isopropylbenzene	12.249	105	1324313	49.660	ug/l	100
74) N-amyl acetate	12.066	43	289914	51.264	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.499	83	220853	48.503	ug/l	100
76) 1,2,3-Trichloropropane	12.548	75	202260m	55.430	ug/l	
77) Bromobenzene	12.523	156	312706	49.152	ug/l	100
78) n-propylbenzene	12.590	91	1593368	50.186	ug/l	100
79) 2-Chlorotoluene	12.670	91	899967	49.473	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	1080333	50.126	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	74567	49.500	ug/l	100
82) 4-Chlorotoluene	12.767	91	930329	49.299	ug/l	100
83) tert-Butylbenzene	12.993	119	978031	50.244	ug/l	100
84) 1,2,4-Trimethylbenzene	13.035	105	1071926	49.963	ug/l	100
85) sec-Butylbenzene	13.170	105	1425553	49.854	ug/l	100
86) p-Isopropyltoluene	13.285	119	1196645	50.417	ug/l	100
87) 1,3-Dichlorobenzene	13.279	146	608249	48.481	ug/l	100
88) 1,4-Dichlorobenzene	13.359	146	605079	48.618	ug/l	100
89) n-Butylbenzene	13.609	91	1099864	50.454	ug/l	100
90) Hexachloroethane	13.871	117	238005	48.984	ug/l	100
91) 1,2-Dichlorobenzene	13.651	146	536637	48.772	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	35867	50.592	ug/l	100
93) 1,2,4-Trichlorobenzene	14.913	180	320080	49.192	ug/l	100
94) Hexachlorobutadiene	15.017	225	185604	48.543	ug/l	100
95) Naphthalene	15.139	128	562363	50.685	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	272154	48.540	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
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 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

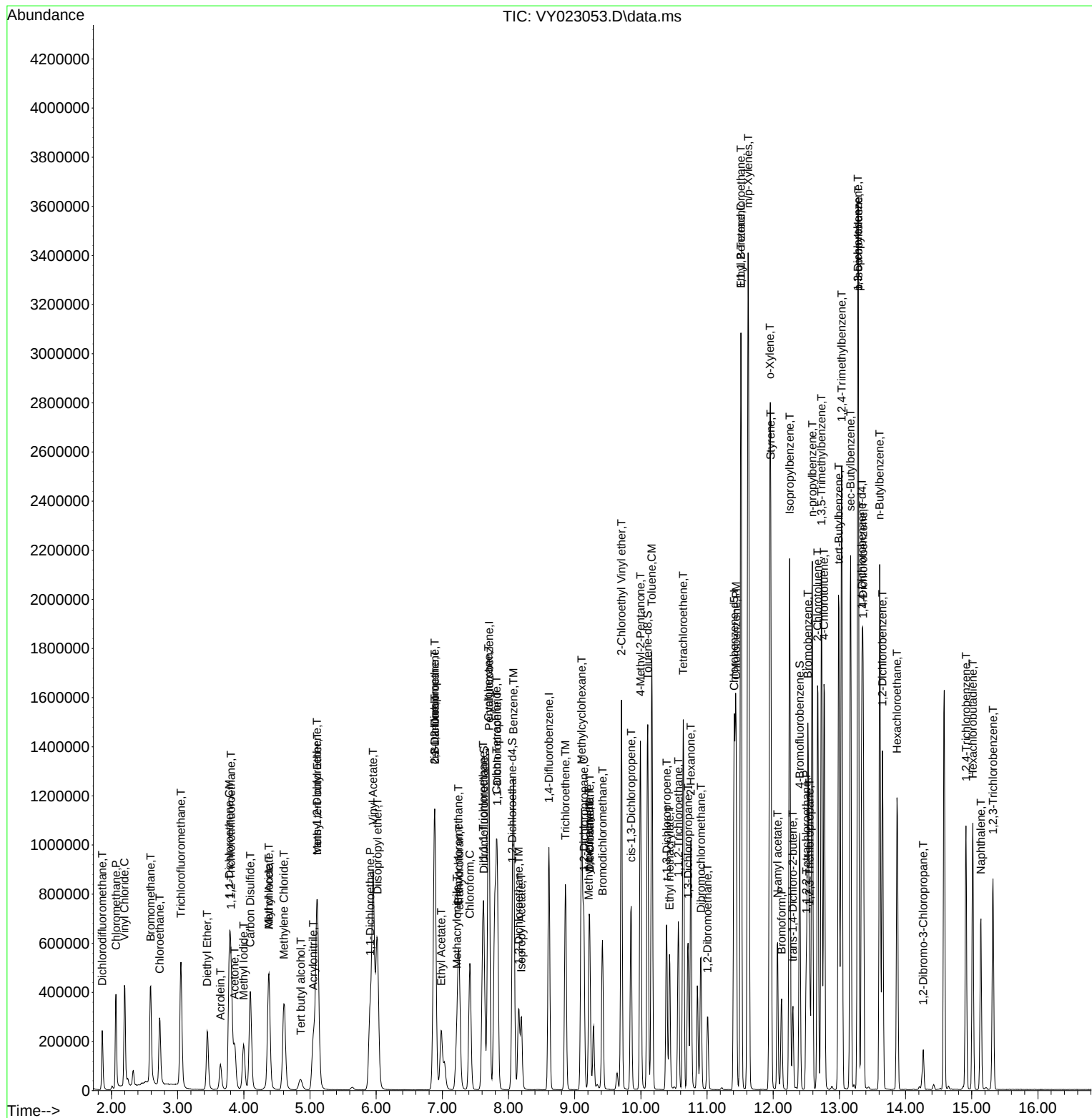
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023054.D
 Acq On : 12 Aug 2025 16:25
 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 08/14/2025
 Supervised By : Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	558266	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	880463	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	784385	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	404136	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	527356	99.115	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 198.220%#	
35) Dibromofluoromethane	7.628	113	540106	102.518	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 205.040%#	
50) Toluene-d8	10.103	98	2116445	102.832	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 205.660%#	
62) 4-Bromofluorobenzene	12.402	95	702583	106.147	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 212.300%#	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	376261	82.570	ug/l	98
3) Chloromethane	2.068	50	673475	91.248	ug/l	99
4) Vinyl Chloride	2.202	62	841648	92.250	ug/l	98
5) Bromomethane	2.586	94	643103	94.384	ug/l	100
6) Chloroethane	2.727	64	567515	93.563	ug/l	99
7) Trichlorofluoromethane	3.050	101	1005284	90.617	ug/l	99
8) Diethyl Ether	3.452	74	273400	93.150	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	497408	90.882	ug/l	99
10) Methyl Iodide	4.001	142	629775	106.635	ug/l	99
11) Tert butyl alcohol	4.866	59	162373	445.387	ug/l	99
12) 1,1-Dichloroethene	3.787	96	506919	94.229	ug/l	95
13) Acrolein	3.647	56	240580	450.599	ug/l	100
14) Allyl chloride	4.379	41	759925	96.000	ug/l	99
15) Acrylonitrile	5.049	53	555815	465.802	ug/l	99
16) Acetone	3.867	43	522178	453.007	ug/l	97
17) Carbon Disulfide	4.098	76	1622451	92.494	ug/l	100
18) Methyl Acetate	4.379	43	312127	90.993	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	1342237	96.284	ug/l	100
20) Methylene Chloride	4.610	84	570465	97.847	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	580972	96.098	ug/l	99
22) Diisopropyl ether	6.019	45	1686285	98.033	ug/l	99
23) Vinyl Acetate	5.958	43	4632278	487.023	ug/l	100
24) 1,1-Dichloroethane	5.909	63	1012815	96.306	ug/l	100
25) 2-Butanone	6.890	43	722555	460.899	ug/l	97
26) 2,2-Dichloropropane	6.878	77	866598	95.497	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	681242	97.472	ug/l	100
28) Bromochloromethane	7.244	49	409677	98.188	ug/l	100
29) Tetrahydrofuran	7.256	42	451254	464.370	ug/l	100
30) Chloroform	7.415	83	1045381	96.383	ug/l	96
31) Cyclohexane	7.695	56	884707	89.271	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	929858	96.620	ug/l	99
36) 1,1-Dichloropropene	7.829	75	755114	96.443	ug/l	99
37) Ethyl Acetate	6.982	43	313447	95.302	ug/l	99
38) Carbon Tetrachloride	7.811	117	819941	96.419	ug/l	98
39) Methylcyclohexane	9.103	83	1011944	98.146	ug/l	99
40) Benzene	8.073	78	2348617	97.324	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023054.D
 Acq On : 12 Aug 2025 16:25
 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 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	180468	94.973	ug/l	98
42) 1,2-Dichloroethane	8.152	62	597215	95.155	ug/l	100
43) Isopropyl Acetate	8.195	43	636710	95.780	ug/l	99
44) Trichloroethene	8.860	130	602322	96.584	ug/l	97
45) 1,2-Dichloropropane	9.140	63	543589	97.899	ug/l	99
46) Dibromomethane	9.225	93	309302	97.052	ug/l	99
47) Bromodichloromethane	9.420	83	802532	97.864	ug/l	98
48) Methyl methacrylate	9.219	41	319906	100.567	ug/l	99
49) 1,4-Dioxane	9.225	88	71300	1908.039	ug/l	94
51) 4-Methyl-2-Pentanone	9.994	43	1669668	486.924	ug/l	100
52) Toluene	10.164	92	1537088	100.288	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	754278	101.574	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	880571	100.281	ug/l	99
55) 1,1,2-Trichloroethane	10.567	97	415556	97.446	ug/l	99
56) Ethyl methacrylate	10.432	69	569556	104.375	ug/l	100
57) 1,3-Dichloropropane	10.713	76	696130	96.253	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	1389847	539.957	ug/l	99
59) 2-Hexanone	10.756	43	1151000	492.950	ug/l	100
60) Dibromochloromethane	10.902	129	557205	99.024	ug/l	99
61) 1,2-Dibromoethane	11.012	107	391650	97.713	ug/l	98
64) Tetrachloroethene	10.640	164	615871	87.931	ug/l	98
65) Chlorobenzene	11.438	112	1658154	98.004	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.512	131	573131	99.810	ug/l	99
67) Ethyl Benzene	11.512	91	2914020	100.082	ug/l	98
68) m/p-Xylenes	11.621	106	2312597	203.363	ug/l	98
69) o-Xylene	11.950	106	1100998	103.373	ug/l	99
70) Styrene	11.963	104	1845480	105.953	ug/l	99
71) Bromoform	12.127	173	334886	99.786	ug/l #	99
73) Isopropylbenzene	12.249	105	2839999	99.567	ug/l	99
74) N-amyl acetate	12.066	43	610668	100.955	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.499	83	469810	96.464	ug/l	100
76) 1,2,3-Trichloropropane	12.548	75	330554m	84.695	ug/l	
77) Bromobenzene	12.524	156	671329	98.655	ug/l	98
78) n-propylbenzene	12.591	91	3360679	98.963	ug/l	99
79) 2-Chlorotoluene	12.670	91	1931460	99.268	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	2321527	100.707	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	153260	95.118	ug/l	100
82) 4-Chlorotoluene	12.767	91	1988544	98.519	ug/l	100
83) tert-Butylbenzene	12.993	119	2125785	102.102	ug/l	98
84) 1,2,4-Trimethylbenzene	13.036	105	2339432	101.946	ug/l	100
85) sec-Butylbenzene	13.170	105	3056373	99.932	ug/l	100
86) p-Isopropyltoluene	13.286	119	2610936	102.846	ug/l	100
87) 1,3-Dichlorobenzene	13.280	146	1338547	99.748	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	1290840	96.970	ug/l	99
89) n-Butylbenzene	13.609	91	2370706	101.675	ug/l	100
90) Hexachloroethane	13.871	117	510900	98.308	ug/l	99
91) 1,2-Dichlorobenzene	13.651	146	1162152	98.749	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	69736	91.965	ug/l	97
93) 1,2,4-Trichlorobenzene	14.913	180	692201	99.460	ug/l	98
94) Hexachlorobutadiene	15.017	225	387707	94.803	ug/l	99
95) Naphthalene	15.133	128	1212227	102.147	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	587990	98.046	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
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 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

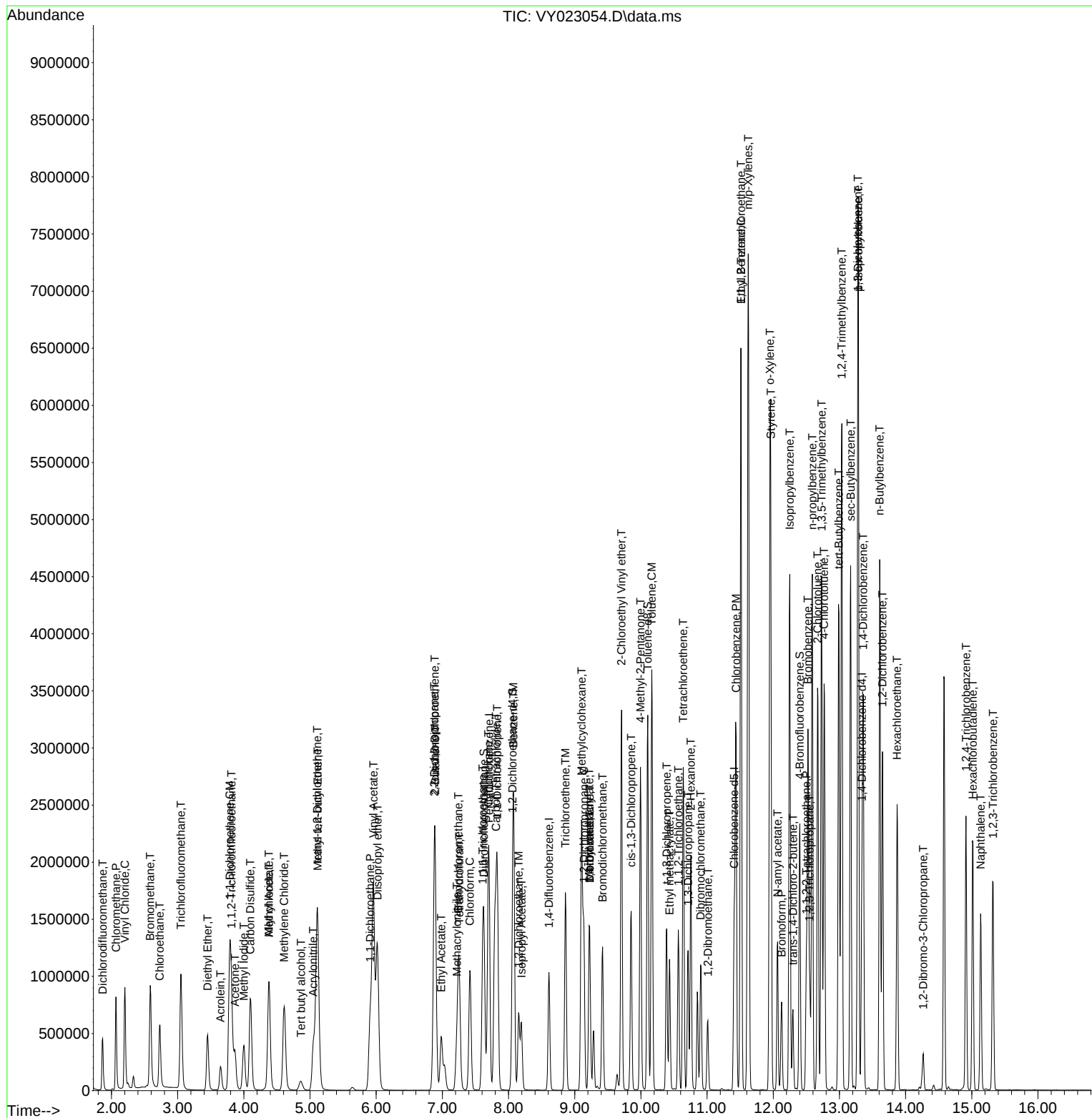
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023055.D
 Acq On : 12 Aug 2025 16:47
 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 08/14/2025
 Supervised By : Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:55:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.701	168	538712	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	844092	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	756365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	389949	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	746936	145.480	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 290.960%#			
35) Dibromofluoromethane	7.628	113	771944	152.837	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 305.680%#			
50) Toluene-d8	10.103	98	3003834	152.237	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 304.480%#			
62) 4-Bromofluorobenzene	12.402	95	998318	157.326	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 314.660%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	571723	130.017	ug/l	98
3) Chloromethane	2.062	50	991215	139.173	ug/l	99
4) Vinyl Chloride	2.202	62	1238646	140.692	ug/l	99
5) Bromomethane	2.580	94	938717	142.770	ug/l	100
6) Chloroethane	2.720	64	834547	142.581	ug/l	100
7) Trichlorofluoromethane	3.043	101	1574213	147.051	ug/l	99
8) Diethyl Ether	3.446	74	426242	150.496	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.806	101	763053	144.479	ug/l	99
10) Methyl Iodide	3.995	142	909378	159.567	ug/l	100
11) Tert butyl alcohol	4.860	59	265243	753.967	ug/l	100
12) 1,1-Dichloroethene	3.781	96	768098	147.960	ug/l	95
13) Acrolein	3.647	56	374594	727.070	ug/l	98
14) Allyl chloride	4.372	41	1151194	150.707	ug/l	99
15) Acrylonitrile	5.049	53	883293	767.115	ug/l	99
16) Acetone	3.866	43	777658	699.133	ug/l	100
17) Carbon Disulfide	4.098	76	2426564	143.357	ug/l	99
18) Methyl Acetate	4.379	43	500151	151.100	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	2113920	157.144	ug/l	99
20) Methylene Chloride	4.604	84	846955	152.064	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	889517	152.474	ug/l	97
22) Diisopropyl ether	6.012	45	2594499	156.307	ug/l	99
23) Vinyl Acetate	5.951	43	7267824	791.851	ug/l	99
24) 1,1-Dichloroethane	5.909	63	1527663	150.534	ug/l	99
25) 2-Butanone	6.890	43	1144112	756.289	ug/l	97
26) 2,2-Dichloropropane	6.878	77	1293043	147.663	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	1047717	155.348	ug/l	98
28) Bromochloromethane	7.238	49	599841	148.984	ug/l	98
29) Tetrahydrofuran	7.256	42	734408	783.186	ug/l	99
30) Chloroform	7.415	83	1585686	151.505	ug/l	95
31) Cyclohexane	7.695	56	1354021	141.586	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	1396470	150.372	ug/l	100
36) 1,1-Dichloropropene	7.829	75	1132306	150.850	ug/l	99
37) Ethyl Acetate	6.982	43	494371	156.788	ug/l	99
38) Carbon Tetrachloride	7.811	117	1226800	150.478	ug/l	96
39) Methylcyclohexane	9.103	83	1556004	157.417	ug/l	98
40) Benzene	8.073	78	3533174	152.720	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023055.D
 Acq On : 12 Aug 2025 16:47
 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 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:55:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	261721	143.669	ug/l	90
42) 1,2-Dichloroethane	8.152	62	909030	151.078	ug/l	100
43) Isopropyl Acetate	8.195	43	1029854	161.596	ug/l	98
44) Trichloroethene	8.860	130	909510	152.126	ug/l	94
45) 1,2-Dichloropropane	9.134	63	822035	154.426	ug/l	99
46) Dibromomethane	9.225	93	480162	157.156	ug/l	100
47) Bromodichloromethane	9.420	83	1217658	154.884	ug/l	99
48) Methyl methacrylate	9.213	41	497527	163.144	ug/l	97
49) 1,4-Dioxane	9.225	88	117513	3280.235	ug/l	98
51) 4-Methyl-2-Pentanone	9.993	43	2677587	814.509	ug/l	99
52) Toluene	10.164	92	2332797	158.762	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	1162952	163.355	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	1366797	162.359	ug/l	99
55) 1,1,2-Trichloroethane	10.567	97	642236	157.090	ug/l	98
56) Ethyl methacrylate	10.432	69	908662	173.693	ug/l	100
57) 1,3-Dichloropropane	10.713	76	1087297	156.818	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	2167815	878.488	ug/l	99
59) 2-Hexanone	10.756	43	1848093	825.606	ug/l	100
60) Dibromochloromethane	10.908	129	860181	159.454	ug/l	99
61) 1,2-Dibromoethane	11.012	107	613069	159.546	ug/l	99
64) Tetrachloroethene	10.640	164	990664	146.682	ug/l	98
65) Chlorobenzene	11.438	112	2520874	154.514	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.511	131	871003	157.304	ug/l	99
67) Ethyl Benzene	11.511	91	4438665	158.093	ug/l	98
68) m/p-Xylenes	11.621	106	3511726	320.251	ug/l	96
69) o-Xylene	11.950	106	1683720	163.941	ug/l	100
70) Styrene	11.963	104	2846443	169.475	ug/l	99
71) Bromoform	12.127	173	523541	161.778	ug/l #	98
73) Isopropylbenzene	12.249	105	4269945	155.145	ug/l	99
74) N-amyl acetate	12.066	43	982090	168.265	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.499	83	717524	152.686	ug/l	100
76) 1,2,3-Trichloropropane	12.548	75	519276m	137.890	ug/l	
77) Bromobenzene	12.523	156	1021449	155.568	ug/l	99
78) n-propylbenzene	12.591	91	5048012	154.058	ug/l	99
79) 2-Chlorotoluene	12.676	91	2878647	153.331	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	3469329	155.973	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	245958	158.203	ug/l	97
82) 4-Chlorotoluene	12.773	91	2981042	153.063	ug/l	99
83) tert-Butylbenzene	12.993	119	3161475	157.371	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	3501626	158.143	ug/l	100
85) sec-Butylbenzene	13.170	105	4541629	153.897	ug/l	99
86) p-Isopropyltoluene	13.286	119	3918969	159.987	ug/l	99
87) 1,3-Dichlorobenzene	13.279	146	2049060	158.251	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	1941716	151.172	ug/l	98
89) n-Butylbenzene	13.609	91	3578272	159.048	ug/l	100
90) Hexachloroethane	13.871	117	772603	154.073	ug/l	99
91) 1,2-Dichlorobenzene	13.651	146	1754100	154.469	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	114505	156.498	ug/l	96
93) 1,2,4-Trichlorobenzene	14.913	180	1117401	166.397	ug/l	98
94) Hexachlorobutadiene	15.017	225	589351	149.352	ug/l	99
95) Naphthalene	15.139	128	2094983	182.954	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	975366	168.557	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
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 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

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

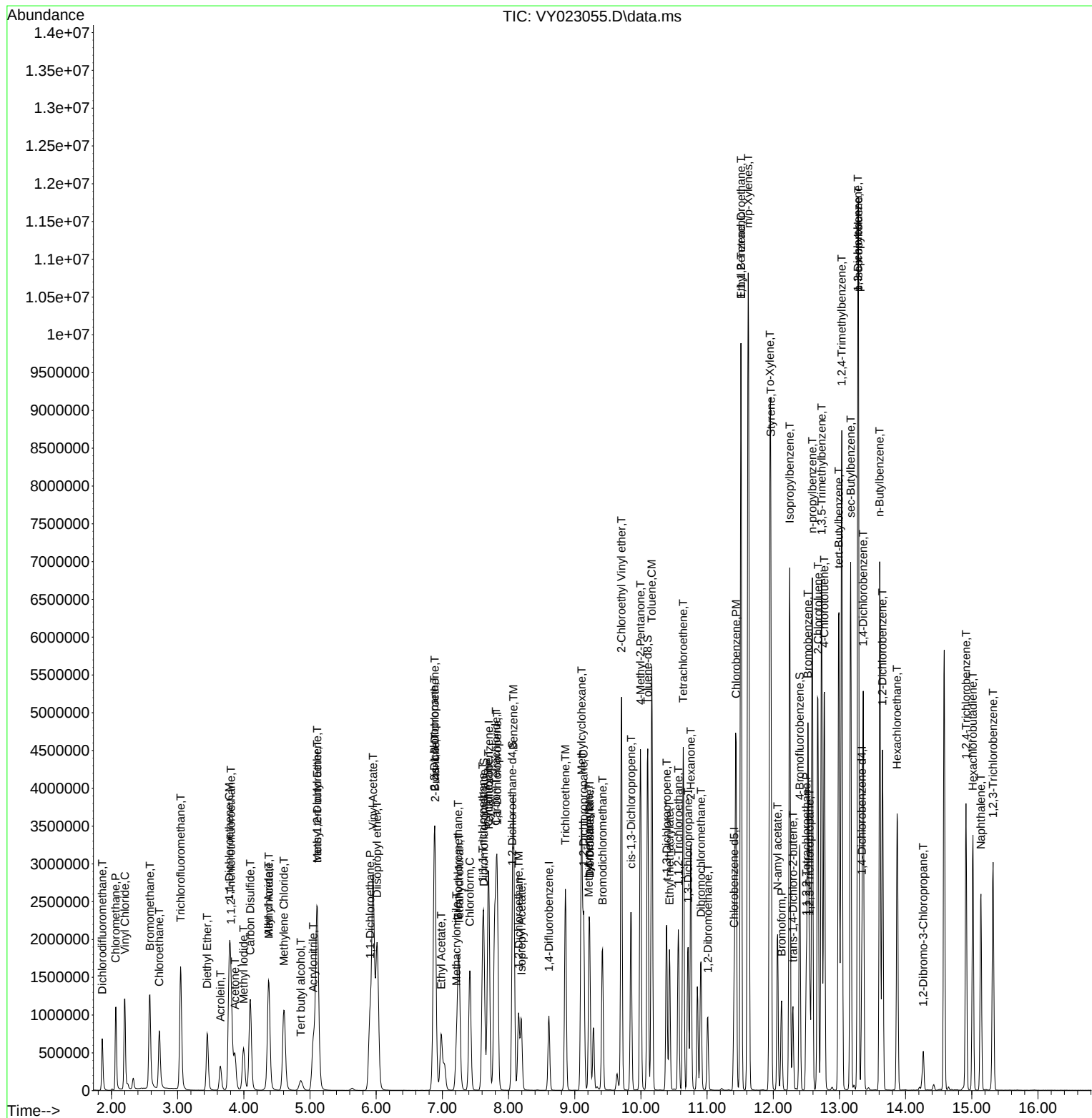
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 Data File : VY023055.D
 Acq On : 12 Aug 2025 16:47
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Quant Time: Aug 13 01:55:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY081225

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	528657	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	849851	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	756555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	376990	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	252116	50.038	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.080%			
35) Dibromofluoromethane	7.628	113	255171	50.179	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.360%			
50) Toluene-d8	10.103	98	979510	49.306	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.620%			
62) 4-Bromofluorobenzene	12.402	95	329022	51.500	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.000%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	179421	41.579	ug/l	99
3) Chloromethane	2.068	50	340600	48.732	ug/l	100
4) Vinyl Chloride	2.202	62	416413	48.198	ug/l	99
5) Bromomethane	2.592	94	303147	46.983	ug/l	98
6) Chloroethane	2.733	64	281008	48.923	ug/l	99
7) Trichlorofluoromethane	3.050	101	493782	47.003	ug/l	100
8) Diethyl Ether	3.452	74	132818	47.787	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	247351	47.725	ug/l	99
10) Methyl Iodide	4.001	142	287126	51.340	ug/l	99
11) Tert butyl alcohol	4.860	59	84906	245.940	ug/l	98
12) 1,1-Dichloroethene	3.787	96	242931	47.686	ug/l	95
13) Acrolein	3.647	56	112246	222.008	ug/l	98
14) Allyl chloride	4.379	41	354691	47.317	ug/l	99
15) Acrylonitrile	5.055	53	274329	242.779	ug/l	99
16) Acetone	3.867	43	229985	210.695	ug/l	96
17) Carbon Disulfide	4.104	76	779852	46.948	ug/l	99
18) Methyl Acetate	4.385	43	168821	51.972	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	658713	49.899	ug/l	100
20) Methylene Chloride	4.610	84	283386	49.960	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	279182	48.765	ug/l	98
22) Diisopropyl ether	6.019	45	814622	50.011	ug/l	97
23) Vinyl Acetate	5.958	43	2182924	242.360	ug/l	100
24) 1,1-Dichloroethane	5.915	63	483509	48.551	ug/l	100
25) 2-Butanone	6.890	43	341490	230.028	ug/l	99
26) 2,2-Dichloropropane	6.884	77	390777	45.475	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	322451	48.720	ug/l	99
28) Bromochloromethane	7.238	49	198640	50.275	ug/l	100
29) Tetrahydrofuran	7.262	42	227680	247.420	ug/l	100
30) Chloroform	7.421	83	497627	48.450	ug/l	97
31) Cyclohexane	7.695	56	436638	46.526	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	445943	48.933	ug/l	100
36) 1,1-Dichloropropene	7.829	75	364210	48.193	ug/l	99
37) Ethyl Acetate	6.982	43	157530	49.621	ug/l	99
38) Carbon Tetrachloride	7.817	117	394245	48.030	ug/l	99
39) Methylcyclohexane	9.103	83	493867	49.625	ug/l	98
40) Benzene	8.073	78	1128023	48.428	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY081225

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	88437	48.269	ug/l	99
42) 1,2-Dichloroethane	8.152	62	291766	48.162	ug/l	100
43) Isopropyl Acetate	8.195	43	315013	49.094	ug/l	98
44) Trichloroethene	8.860	130	287745	47.803	ug/l	95
45) 1,2-Dichloropropane	9.140	63	262408	48.961	ug/l	98
46) Dibromomethane	9.225	93	149745	48.679	ug/l	99
47) Bromodichloromethane	9.420	83	391522	49.463	ug/l	98
48) Methyl methacrylate	9.219	41	155118	50.520	ug/l	99
49) 1,4-Dioxane	9.225	88	35050	971.749	ug/l	98
51) 4-Methyl-2-Pentanone	9.993	43	823949	248.943	ug/l	99
52) Toluene	10.164	92	724356	48.963	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	356228	49.699	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	415017	48.965	ug/l	97
55) 1,1,2-Trichloroethane	10.567	97	201146	48.867	ug/l	98
56) Ethyl methacrylate	10.432	69	267458	50.779	ug/l	99
57) 1,3-Dichloropropane	10.713	76	343649	49.228	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	678865	273.240	ug/l	100
59) 2-Hexanone	10.756	43	551743	244.812	ug/l	99
60) Dibromochloromethane	10.908	129	270536	49.810	ug/l	99
61) 1,2-Dibromoethane	11.012	107	190334	49.197	ug/l	100
64) Tetrachloroethene	10.640	164	307456	45.512	ug/l	98
65) Chlorobenzene	11.438	112	787799	48.275	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.512	131	270360	48.815	ug/l	99
67) Ethyl Benzene	11.512	91	1380648	49.163	ug/l	100
68) m/p-Xylenes	11.621	106	1080541	98.515	ug/l	99
69) o-Xylene	11.950	106	509991	49.645	ug/l	99
70) Styrene	11.963	104	852310	50.733	ug/l	99
71) Bromoform	12.127	173	157073	48.525	ug/l #	98
73) Isopropylbenzene	12.249	105	1327070	49.876	ug/l	100
74) N-amyl acetate	12.066	43	285118	50.529	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.499	83	224206	49.350	ug/l	98
76) 1,2,3-Trichloropropane	12.548	75	167859m	46.136	ug/l	
77) Bromobenzene	12.524	156	311065	49.004	ug/l	99
78) n-propylbenzene	12.591	91	1610911	50.853	ug/l	100
79) 2-Chlorotoluene	12.676	91	905657	49.898	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	1094902	50.916	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	74263	49.409	ug/l	98
82) 4-Chlorotoluene	12.774	91	932114	49.505	ug/l	100
83) tert-Butylbenzene	12.993	119	979692	50.443	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	1092616	51.042	ug/l	100
85) sec-Butylbenzene	13.170	105	1459437	51.154	ug/l	100
86) p-Isopropyltoluene	13.286	119	1222900	51.639	ug/l	100
87) 1,3-Dichlorobenzene	13.280	146	621371	49.639	ug/l	98
88) 1,4-Dichlorobenzene	13.359	146	602429	48.514	ug/l	99
89) n-Butylbenzene	13.609	91	1122189	51.594	ug/l	100
90) Hexachloroethane	13.871	117	245386	50.617	ug/l	99
91) 1,2-Dichlorobenzene	13.651	146	540506	49.234	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	35428	50.085	ug/l	98
93) 1,2,4-Trichlorobenzene	14.913	180	320472	49.363	ug/l	99
94) Hexachlorobutadiene	15.017	225	184430	48.344	ug/l	99
95) Naphthalene	15.139	128	571480	51.623	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	272638	48.735	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

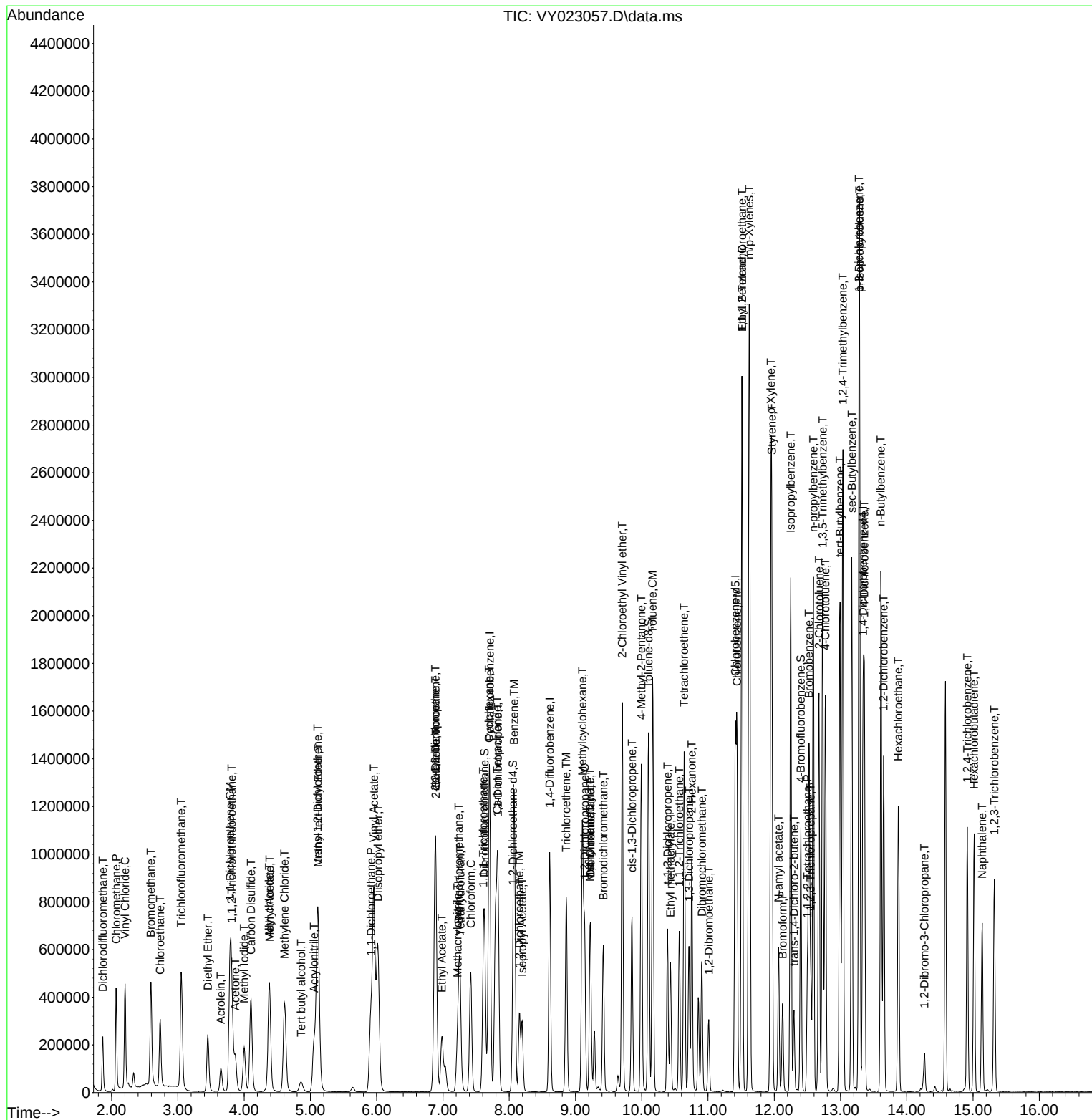
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVY081225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY081225

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	0.408	0.339	16.9	96	0.00
3 P	Chloromethane	0.661	0.644	2.6	104	0.00
4 C	Vinyl Chloride	0.817	0.788	3.5#	100	0.00
5 T	Bromomethane	0.610	0.573	6.1	104	0.00
6 T	Chloroethane	0.543	0.532	2.0	101	0.00
7 T	Trichlorofluoromethane	0.994	0.934	6.0	98	0.00
8 T	Diethyl Ether	0.263	0.251	4.6	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.490	0.468	4.5	99	0.00
10 T	Methyl Iodide	0.529	0.543	-2.6	97	0.00
11 T	Tert butyl alcohol	0.033	0.032	3.0	99	0.00
12 CM	1,1-Dichloroethene	0.482	0.460	4.6#	97	0.00
13 T	Acrolein	0.048	0.042	12.5	93	0.00
14 T	Allyl chloride	0.709	0.671	5.4	96	0.00
15 T	Acrylonitrile	0.107	0.104	2.8	96	0.00
16 T	Acetone	0.103	0.087	15.5	83	0.00
17 T	Carbon Disulfide	1.571	1.475	6.1	97	0.00
18 T	Methyl Acetate	0.307	0.319	-3.9	97	0.00
19 T	Methyl tert-butyl Ether	1.249	1.246	0.2	99	0.00
20 T	Methylene Chloride	0.620	0.536	13.5	103	0.00
21 T	trans-1,2-Dichloroethene	0.541	0.528	2.4	99	0.00
22 T	Diisopropyl ether	1.541	1.541	0.0	100	0.00
23 T	Vinyl Acetate	0.852	0.826	3.1	96	0.00
24 P	1,1-Dichloroethane	0.942	0.915	2.9	98	0.00
25 T	2-Butanone	0.140	0.129	7.9	89	0.00
26 T	2,2-Dichloropropane	0.813	0.739	9.1	92	0.00
27 T	cis-1,2-Dichloroethene	0.626	0.610	2.6	99	0.00
28 T	Bromochloromethane	0.374	0.376	-0.5	101	0.00
29 T	Tetrahydrofuran	0.087	0.086	1.1	97	0.00
30 C	Chloroform	0.971	0.941	3.1#	98	0.00
31 T	Cyclohexane	0.888	0.826	7.0	99	0.00
32 T	1,1,1-Trichloroethane	0.862	0.844	2.1	99	0.00
33 S	1,2-Dichloroethane-d4	0.477	0.477	0.0	101	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35 S	Dibromofluoromethane	0.299	0.300	-0.3	102	0.00
36 T	1,1-Dichloropropene	0.445	0.429	3.6	98	0.00
37 T	Ethyl Acetate	0.187	0.185	1.1	98	0.00
38 T	Carbon Tetrachloride	0.483	0.464	3.9	99	0.00
39 T	Methylcyclohexane	0.586	0.581	0.9	102	0.00
40 TM	Benzene	1.370	1.327	3.1	99	0.00
41 T	Methacrylonitrile	0.108	0.104	3.7	94	0.00
42 TM	1,2-Dichloroethane	0.356	0.343	3.7	98	0.00
43 T	Isopropyl Acetate	0.378	0.371	1.9	99	0.00
44 TM	Trichloroethene	0.354	0.339	4.2	98	0.00
45 C	1,2-Dichloropropane	0.315	0.309	1.9#	99	0.00
46 T	Dibromomethane	0.181	0.176	2.8	98	0.00
47 T	Bromodichloromethane	0.466	0.461	1.1	99	0.00
48 T	Methyl methacrylate	0.181	0.183	-1.1	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY081225

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	97	0.00
50 S	Toluene-d8	1.169	1.153	1.4	100	0.00
51 T	4-Methyl-2-Pentanone	0.195	0.194	0.5	97	0.00
52 CM	Toluene	0.870	0.852	2.1#	99	0.00
53 T	t-1,3-Dichloropropene	0.422	0.419	0.7	99	0.00
54 T	cis-1,3-Dichloropropene	0.499	0.488	2.2	98	0.00
55 T	1,1,2-Trichloroethane	0.242	0.237	2.1	98	0.00
56 T	Ethyl methacrylate	0.310	0.315	-1.6	98	0.00
57 T	1,3-Dichloropropane	0.411	0.404	1.7	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.146	0.160	-9.6	102	0.00
59 T	2-Hexanone	0.133	0.130	2.3	94	0.00
60 T	Dibromochloromethane	0.320	0.318	0.6	99	0.00
61 T	1,2-Dibromoethane	0.228	0.224	1.8	98	0.00
62 S	4-Bromofluorobenzene	0.376	0.387	-2.9	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64 T	Tetrachloroethene	0.446	0.406	9.0	94	0.00
65 PM	Chlorobenzene	1.079	1.041	3.5	99	0.00
66 T	1,1,1,2-Tetrachloroethane	0.366	0.357	2.5	99	0.00
67 C	Ethyl Benzene	1.856	1.825	1.7#	99	0.00
68 T	m/p-Xylenes	0.725	0.714	1.5	100	0.00
69 T	o-Xylene	0.679	0.674	0.7	99	0.00
70 T	Styrene	1.110	1.127	-1.5	101	0.00
71 P	Bromoform	0.214	0.208	2.8	98	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73 T	Isopropylbenzene	3.529	3.520	0.3	100	0.00
74 T	N-amyl acetate	0.748	0.756	-1.1	98	0.00
75 P	1,1,2,2-Tetrachloroethane	0.603	0.595	1.3	102	0.00
76 T	1,2,3-Trichloropropane	0.483	0.445	7.9	83	0.00
77 T	Bromobenzene	0.842	0.825	2.0	99	0.00
78 T	n-propylbenzene	4.201	4.273	-1.7	101	0.00
79 T	2-Chlorotoluene	2.407	2.402	0.2	101	0.00
80 T	1,3,5-Trimethylbenzene	2.852	2.904	-1.8	101	0.00
81 T	trans-1,4-Dichloro-2-butene	0.199	0.197	1.0	100	0.00
82 T	4-Chlorotoluene	2.497	2.473	1.0	100	0.00
83 T	tert-Butylbenzene	2.576	2.599	-0.9	100	0.00
84 T	1,2,4-Trimethylbenzene	2.839	2.898	-2.1	102	0.00
85 T	sec-Butylbenzene	3.784	3.871	-2.3	102	0.00
86 T	p-Isopropyltoluene	3.141	3.244	-3.3	102	0.00
87 T	1,3-Dichlorobenzene	1.660	1.648	0.7	102	0.00
88 T	1,4-Dichlorobenzene	1.647	1.598	3.0	100	0.00
89 T	n-Butylbenzene	2.885	2.977	-3.2	102	0.00
90 T	Hexachloroethane	0.643	0.651	-1.2	103	0.00
91 T	1,2-Dichlorobenzene	1.456	1.434	1.5	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.094	0.094	0.0	99	0.00
93 T	1,2,4-Trichlorobenzene	0.861	0.850	1.3	100	0.00
94 T	Hexachlorobutadiene	0.506	0.489	3.4	99	0.00
95 T	Naphthalene	1.468	1.516	-3.3	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.742	0.723	2.6	100	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY081225

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	50.000	41.579	16.8	96	0.00
3 P	Chloromethane	50.000	48.732	2.5	104	0.00
4 C	Vinyl Chloride	50.000	48.198	3.6#	100	0.00
5 T	Bromomethane	50.000	46.983	6.0	104	0.00
6 T	Chloroethane	50.000	48.923	2.2	101	0.00
7 T	Trichlorofluoromethane	50.000	47.003	6.0	98	0.00
8 T	Diethyl Ether	50.000	47.787	4.4	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.725	4.5	99	0.00
10 T	Methyl Iodide	50.000	51.340	-2.7	97	0.00
11 T	Tert butyl alcohol	250.000	245.940	1.6	99	0.00
12 CM	1,1-Dichloroethene	50.000	47.686	4.6#	97	0.00
13 T	Acrolein	250.000	222.008	11.2	93	0.00
14 T	Allyl chloride	50.000	47.317	5.4	96	0.00
15 T	Acrylonitrile	250.000	242.779	2.9	96	0.00
16 T	Acetone	250.000	210.695	15.7	83	0.00
17 T	Carbon Disulfide	50.000	46.948	6.1	97	0.00
18 T	Methyl Acetate	50.000	51.972	-3.9	97	0.00
19 T	Methyl tert-butyl Ether	50.000	49.899	0.2	99	0.00
20 T	Methylene Chloride	50.000	49.960	0.1	103	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.765	2.5	99	0.00
22 T	Diisopropyl ether	50.000	50.011	-0.0	100	0.00
23 T	Vinyl Acetate	250.000	242.360	3.1	96	0.00
24 P	1,1-Dichloroethane	50.000	48.551	2.9	98	0.00
25 T	2-Butanone	250.000	230.028	8.0	89	0.00
26 T	2,2-Dichloropropane	50.000	45.475	9.0	92	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.720	2.6	99	0.00
28 T	Bromochloromethane	50.000	50.275	-0.5	101	0.00
29 T	Tetrahydrofuran	250.000	247.420	1.0	97	0.00
30 C	Chloroform	50.000	48.450	3.1#	98	0.00
31 T	Cyclohexane	50.000	46.526	6.9	99	0.00
32 T	1,1,1-Trichloroethane	50.000	48.933	2.1	99	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.038	-0.1	101	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35 S	Dibromofluoromethane	50.000	50.179	-0.4	102	0.00
36 T	1,1-Dichloropropene	50.000	48.193	3.6	98	0.00
37 T	Ethyl Acetate	50.000	49.621	0.8	98	0.00
38 T	Carbon Tetrachloride	50.000	48.030	3.9	99	0.00
39 T	Methylcyclohexane	50.000	49.625	0.8	102	0.00
40 TM	Benzene	50.000	48.428	3.1	99	0.00
41 T	Methacrylonitrile	50.000	48.269	3.5	94	0.00
42 TM	1,2-Dichloroethane	50.000	48.162	3.7	98	0.00
43 T	Isopropyl Acetate	50.000	49.094	1.8	99	0.00
44 TM	Trichloroethene	50.000	47.803	4.4	98	0.00
45 C	1,2-Dichloropropane	50.000	48.961	2.1#	99	0.00
46 T	Dibromomethane	50.000	48.679	2.6	98	0.00
47 T	Bromodichloromethane	50.000	49.463	1.1	99	0.00
48 T	Methyl methacrylate	50.000	50.520	-1.0	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY081225

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	971.749	2.8	97	0.00
50 S	Toluene-d8	50.000	49.306	1.4	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	248.943	0.4	97	0.00
52 CM	Toluene	50.000	48.963	2.1#	99	0.00
53 T	t-1,3-Dichloropropene	50.000	49.699	0.6	99	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.965	2.1	98	0.00
55 T	1,1,2-Trichloroethane	50.000	48.867	2.3	98	0.00
56 T	Ethyl methacrylate	50.000	50.779	-1.6	98	0.00
57 T	1,3-Dichloropropane	50.000	49.228	1.5	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	273.240	-9.3	102	0.00
59 T	2-Hexanone	250.000	244.812	2.1	94	0.00
60 T	Dibromochloromethane	50.000	49.810	0.4	99	0.00
61 T	1,2-Dibromoethane	50.000	49.197	1.6	98	0.00
62 S	4-Bromofluorobenzene	50.000	51.500	-3.0	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64 T	Tetrachloroethene	50.000	45.512	9.0	94	0.00
65 PM	Chlorobenzene	50.000	48.275	3.5	99	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	48.815	2.4	99	0.00
67 C	Ethyl Benzene	50.000	49.163	1.7#	99	0.00
68 T	m/p-Xylenes	100.000	98.515	1.5	100	0.00
69 T	o-Xylene	50.000	49.645	0.7	99	0.00
70 T	Styrene	50.000	50.733	-1.5	101	0.00
71 P	Bromoform	50.000	48.525	3.0	98	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73 T	Isopropylbenzene	50.000	49.876	0.2	100	0.00
74 T	N-amyl acetate	50.000	50.529	-1.1	98	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.350	1.3	102	0.00
76 T	1,2,3-Trichloropropane	50.000	46.136	7.7	83	0.00
77 T	Bromobenzene	50.000	49.004	2.0	99	0.00
78 T	n-propylbenzene	50.000	50.853	-1.7	101	0.00
79 T	2-Chlorotoluene	50.000	49.898	0.2	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.916	-1.8	101	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.409	1.2	100	0.00
82 T	4-Chlorotoluene	50.000	49.505	1.0	100	0.00
83 T	tert-Butylbenzene	50.000	50.443	-0.9	100	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.042	-2.1	102	0.00
85 T	sec-Butylbenzene	50.000	51.154	-2.3	102	0.00
86 T	p-Isopropyltoluene	50.000	51.639	-3.3	102	0.00
87 T	1,3-Dichlorobenzene	50.000	49.639	0.7	102	0.00
88 T	1,4-Dichlorobenzene	50.000	48.514	3.0	100	0.00
89 T	n-Butylbenzene	50.000	51.594	-3.2	102	0.00
90 T	Hexachloroethane	50.000	50.617	-1.2	103	0.00
91 T	1,2-Dichlorobenzene	50.000	49.234	1.5	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.085	-0.2	99	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.363	1.3	100	0.00
94 T	Hexachlorobutadiene	50.000	48.344	3.3	99	0.00
95 T	Naphthalene	50.000	51.623	-3.2	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.735	2.5	100	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CORE02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2994</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>09/02/2025 08:58</u>
Lab File ID:	<u>VY023252.D</u>	Init. Calib. Date(s):	<u>08/12/2025 08/12/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>14:54 16:47</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.408	0.351		-13.97	20
Chloromethane	0.661	0.552	0.1	-16.49	20
Vinyl Chloride	0.817	0.713		-12.73	20
Bromomethane	0.610	0.553		-9.34	20
Chloroethane	0.543	0.504		-7.18	20
Trichlorofluoromethane	0.994	0.939		-5.53	20
1,1,2-Trichlorotrifluoroethane	0.490	0.511		4.29	20
1,1-Dichloroethene	0.482	0.484		0.41	20
Acetone	0.103	0.117		13.59	20
Carbon Disulfide	1.571	1.429		-9.04	20
Methyl tert-butyl Ether	1.249	1.195		-4.32	20
Methyl Acetate	0.307	0.293		-4.56	20
Methylene Chloride	0.620	0.564		-9.03	20
trans-1,2-Dichloroethene	0.541	0.558		3.14	20
1,1-Dichloroethane	0.942	0.935	0.1	-0.74	20
Cyclohexane	0.888	0.774		-12.84	20
2-Butanone	0.140	0.136		-2.86	20
Carbon Tetrachloride	0.483	0.552		14.29	20
cis-1,2-Dichloroethene	0.626	0.648		3.51	20
Bromochloromethane	0.374	0.353		-5.61	20
Chloroform	0.971	1.010		4.02	20
1,1,1-Trichloroethane	0.862	0.897		4.06	20
Methylcyclohexane	0.586	0.615		4.95	20
Benzene	1.370	1.519		10.88	20
1,2-Dichloroethane	0.356	0.375		5.34	20
Trichloroethene	0.354	0.419		18.36	20
1,2-Dichloropropane	0.315	0.342		8.57	20
Bromodichloromethane	0.466	0.521		11.8	20
4-Methyl-2-Pentanone	0.195	0.192		-1.54	20
Toluene	0.870	0.991		13.91	20
t-1,3-Dichloropropene	0.422	0.452		7.11	20
cis-1,3-Dichloropropene	0.499	0.542		8.62	20
1,1,2-Trichloroethane	0.242	0.273		12.81	20
2-Hexanone	0.133	0.138		3.76	20
Dibromochloromethane	0.320	0.372		16.25	20
1,2-Dibromoethane	0.228	0.253		10.97	20
Tetrachloroethene	0.446	0.585		31.17	20
Chlorobenzene	1.079	1.213	0.3	12.42	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CORE02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2994</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>09/02/2025</u> <u>08:58</u>
Lab File ID:	<u>VY023252.D</u>	Init. Calib. Date(s):	<u>08/12/2025</u> <u>08/12/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>14:54</u> <u>16:47</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.856	2.064		11.21	20
m/p-Xylenes	0.725	0.824		13.65	20
o-Xylene	0.679	0.764		12.52	20
Styrene	1.110	1.281		15.4	20
Bromoform	0.214	0.247	0.1	15.42	20
Isopropylbenzene	3.529	3.854		9.21	20
1,1,2,2-Tetrachloroethane	0.603	0.572	0.3	-5.14	20
1,3-Dichlorobenzene	1.660	1.894		14.1	20
1,4-Dichlorobenzene	1.647	1.841		11.78	20
1,2-Dichlorobenzene	1.456	1.643		12.84	20
1,2-Dibromo-3-Chloropropane	0.094	0.088		-6.38	20
1,2,4-Trichlorobenzene	0.861	0.967		12.31	20
1,2,3-Trichlorobenzene	0.742	0.832		12.13	20
1,2-Dichloroethane-d4	0.477	0.446		-6.5	20
Dibromofluoromethane	0.299	0.328		9.7	20
Toluene-d8	1.169	1.273		8.9	20
4-Bromofluorobenzene	0.376	0.409		8.78	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\VY090225\
 Data File : VY023252.D
 Acq On : 02 Sep 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/03/2025
 Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:26:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	475955	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	695623	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	620932	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.346	152	319834	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	212438	46.832	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	93.660%
35) Dibromofluoromethane	7.634	113	228324	54.854	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	109.700%
50) Toluene-d8	10.109	98	885660	54.466	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	108.940%
62) 4-Bromofluorobenzene	12.407	95	284353	54.376	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	108.760%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.866	85	167005	42.987	ug/l	99
3) Chloromethane	2.074	50	262843	41.771	ug/l	98
4) Vinyl Chloride	2.208	62	339281	43.619	ug/l	100
5) Bromomethane	2.598	94	263257	45.318	ug/l	99
6) Chloroethane	2.738	64	240028	46.416	ug/l	98
7) Trichlorofluoromethane	3.061	101	446686	47.228	ug/l	100
8) Diethyl Ether	3.458	74	117059	46.780	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.823	101	243039	52.086	ug/l	97
10) Methyl Iodide	4.006	142	283995	56.403	ug/l	98
11) Tert butyl alcohol	4.860	59	83528	268.739	ug/l	100
12) 1,1-Dichloroethene	3.793	96	230197	50.190	ug/l	92
13) Acrolein	3.653	56	18064	39.684	ug/l	92
14) Allyl chloride	4.390	41	307147	45.512	ug/l	98
15) Acrylonitrile	5.061	53	239447	235.373	ug/l	98
16) Acetone	3.872	43	278365	283.254	ug/l	100
17) Carbon Disulfide	4.110	76	680352	45.494	ug/l	99
18) Methyl Acetate	4.390	43	139692	47.767	ug/l	95
19) Methyl tert-butyl Ether	5.116	73	568720	47.852	ug/l	98
20) Methylene Chloride	4.616	84	268377	52.702	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	265550	51.520	ug/l	95
22) Diisopropyl ether	6.018	45	697514	47.563	ug/l	93
23) Vinyl Acetate	5.963	43	1834426	226.220	ug/l	99
24) 1,1-Dichloroethane	5.914	63	444834	49.613	ug/l	98
25) 2-Butanone	6.896	43	323907	242.343	ug/l	97
26) 2,2-Dichloropropane	6.884	77	403381	52.139	ug/l	98
27) cis-1,2-Dichloroethene	6.896	96	308315	51.742	ug/l	95
28) Bromochloromethane	7.244	49	168158	47.273	ug/l	90
29) Tetrahydrofuran	7.268	42	181076	218.564	ug/l	96
30) Chloroform	7.420	83	480751	51.990	ug/l	96
31) Cyclohexane	7.701	56	368559	43.621	ug/l	99
32) 1,1,1-Trichloroethane	7.615	97	427070	52.051	ug/l	99
36) 1,1-Dichloropropene	7.841	75	335635	54.258	ug/l	99
37) Ethyl Acetate	6.987	43	124091	47.755	ug/l	99
38) Carbon Tetrachloride	7.823	117	383909	57.140	ug/l	97
39) Methylcyclohexane	9.109	83	427955	52.536	ug/l	96
40) Benzene	8.085	78	1056934	55.436	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023252.D
 Acq On : 02 Sep 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/03/2025

Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:26:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M

Quant Title : SW846 8260

QLast Update : Wed Aug 13 02:10:11 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	72021	48.025	ug/l	90
42) 1,2-Dichloroethane	8.158	62	261037	52.643	ug/l	98
43) Isopropyl Acetate	8.201	43	246391	46.913	ug/l	96
44) Trichloroethene	8.865	130	291395	59.142	ug/l	98
45) 1,2-Dichloropropane	9.146	63	238045	54.263	ug/l	100
46) Dibromomethane	9.231	93	141555	56.219	ug/l	97
47) Bromodichloromethane	9.426	83	362455	55.944	ug/l	97
48) Methyl methacrylate	9.225	41	116983	46.547	ug/l	91
49) 1,4-Dioxane	9.231	88	31353	1061.974	ug/l	90
51) 4-Methyl-2-Pentanone	9.999	43	667982	246.566	ug/l	98
52) Toluene	10.170	92	689495	56.940	ug/l	100
53) t-1,3-Dichloropropene	10.395	75	314764	53.650	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	376814	54.315	ug/l	97
55) 1,1,2-Trichloroethane	10.572	97	189601	56.274	ug/l	99
56) Ethyl methacrylate	10.438	69	219455	50.903	ug/l	98
57) 1,3-Dichloropropane	10.719	76	306731	53.681	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	496984	244.384	ug/l	96
59) 2-Hexanone	10.761	43	478996	259.655	ug/l	98
60) Dibromochloromethane	10.914	129	259007	58.260	ug/l	99
61) 1,2-Dibromoethane	11.017	107	175829	55.524	ug/l	99
64) Tetrachloroethene	10.645	164	363173	65.501	ug/l	99
65) Chlorobenzene	11.444	112	753226	56.238	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.517	131	265158	58.333	ug/l	99
67) Ethyl Benzene	11.523	91	1281461	55.597	ug/l	98
68) m/p-Xylenes	11.627	106	1023135	113.655	ug/l	97
69) o-Xylene	11.956	106	474612	56.292	ug/l	98
70) Styrene	11.968	104	795267	57.677	ug/l	98
71) Bromoform	12.133	173	153324	57.712	ug/l #	98
73) Isopropylbenzene	12.255	105	1232779	54.612	ug/l	99
74) N-amyl acetate	12.072	43	215530	45.023	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.505	83	182874	47.446	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	150900m	48.887	ug/l	
77) Bromobenzene	12.535	156	302612	56.192	ug/l	94
78) n-propylbenzene	12.596	91	1461267	54.372	ug/l	98
79) 2-Chlorotoluene	12.682	91	829160	53.847	ug/l	98
80) 1,3,5-Trimethylbenzene	12.736	105	1010693	55.400	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.304	75	62078	48.683	ug/l	98
82) 4-Chlorotoluene	12.779	91	873326	54.672	ug/l	99
83) tert-Butylbenzene	12.999	119	907001	55.046	ug/l	98
84) 1,2,4-Trimethylbenzene	13.041	105	1004442	55.308	ug/l	99
85) sec-Butylbenzene	13.175	105	1336216	55.205	ug/l	98
86) p-Isopropyltoluene	13.291	119	1131507	56.319	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	605803	57.043	ug/l	98
88) 1,4-Dichlorobenzene	13.364	146	588674	55.878	ug/l	99
89) n-Butylbenzene	13.620	91	1004759	54.450	ug/l	99
90) Hexachloroethane	13.883	117	233446	56.760	ug/l	96
91) 1,2-Dichlorobenzene	13.657	146	525628	56.435	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	28050	46.741	ug/l	85
93) 1,2,4-Trichlorobenzene	14.919	180	309192	56.137	ug/l	99
94) Hexachlorobutadiene	15.023	225	191575	59.191	ug/l	100
95) Naphthalene	15.145	128	495168	52.723	ug/l	99
96) 1,2,3-Trichlorobenzene	15.327	180	266091	56.065	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023252.D
Acq On : 02 Sep 2025 08:58
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/03/2025
Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:26:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

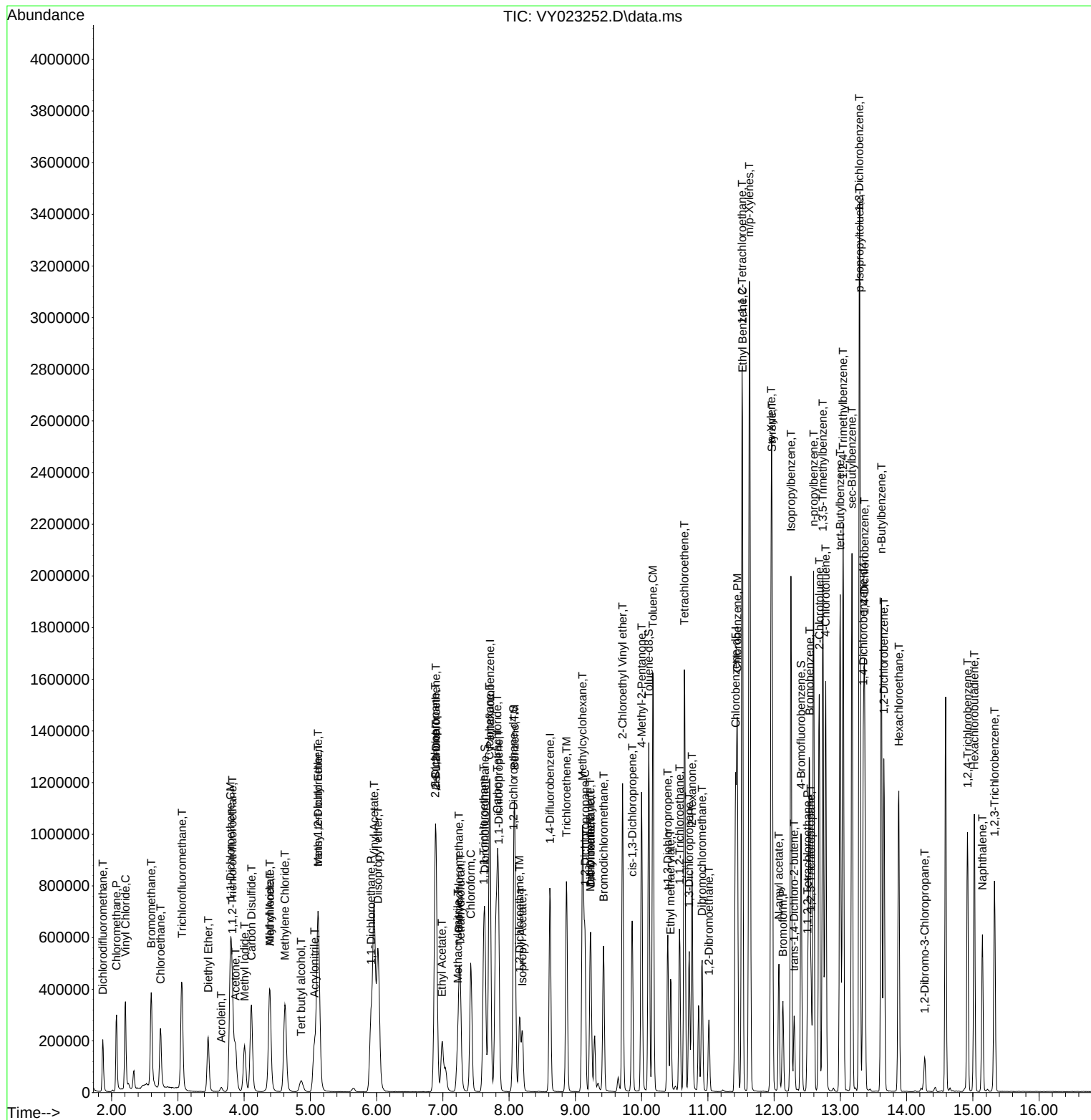
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023252.D
Acq On : 02 Sep 2025 08:58
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/03/2025
Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:26:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023252.D
 Acq On : 02 Sep 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
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Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 03 03:26:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	88	0.00
2 T	Dichlorodifluoromethane	0.408	0.351	14.0	89	0.00
3 P	Chloromethane	0.661	0.552	16.5	80	0.00
4 C	Vinyl Chloride	0.817	0.713	12.7#	82	0.01
5 T	Bromomethane	0.610	0.553	9.3	90	0.00
6 T	Chloroethane	0.543	0.504	7.2	86	0.01
7 T	Trichlorofluoromethane	0.994	0.939	5.5	88	0.01
8 T	Diethyl Ether	0.263	0.246	6.5	86	0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.490	0.511	-4.3	98	0.02
10 T	Methyl Iodide	0.529	0.597	-12.9	96	0.01
11 T	Tert butyl alcohol	0.033	0.035	-6.1	97	0.00
12 CM	1,1-Dichloroethene	0.482	0.484	-0.4#	92	0.01
13 T	Acrolein	0.048	0.008	83.3#	15#	0.00
14 T	Allyl chloride	0.709	0.645	9.0	83	0.01
15 T	Acrylonitrile	0.107	0.101	5.6	84	0.01
16 T	Acetone	0.103	0.117	-13.6	100	0.01
17 T	Carbon Disulfide	1.571	1.429	9.0	85	0.01
18 T	Methyl Acetate	0.307	0.293	4.6	80	0.01
19 T	Methyl tert-butyl Ether	1.249	1.195	4.3	85	0.00
20 T	Methylene Chloride	0.620	0.564	9.0	98	0.01
21 T	trans-1,2-Dichloroethene	0.541	0.558	-3.1	94	0.01
22 T	Diisopropyl ether	1.541	1.466	4.9	86	0.00
23 T	Vinyl Acetate	0.852	0.771	9.5	81	0.01
24 P	1,1-Dichloroethane	0.942	0.935	0.7	90	0.00
25 T	2-Butanone	0.140	0.136	2.9	85	0.01
26 T	2,2-Dichloropropane	0.813	0.848	-4.3	95	0.00
27 T	cis-1,2-Dichloroethene	0.626	0.648	-3.5	94	0.01
28 T	Bromochloromethane	0.374	0.353	5.6	86	0.00
29 T	Tetrahydrofuran	0.087	0.076	12.6	77	0.01
30 C	Chloroform	0.971	1.010	-4.0#	95	0.00
31 T	Cyclohexane	0.888	0.774	12.8	84	0.00
32 T	1,1,1-Trichloroethane	0.862	0.897	-4.1	95	0.00
33 S	1,2-Dichloroethane-d4	0.477	0.446	6.5	85	0.01
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
35 S	Dibromofluoromethane	0.299	0.328	-9.7	91	0.00
36 T	1,1-Dichloropropene	0.445	0.482	-8.3	90	0.01
37 T	Ethyl Acetate	0.187	0.178	4.8	77	0.00
38 T	Carbon Tetrachloride	0.483	0.552	-14.3	96	0.00
39 T	Methylcyclohexane	0.586	0.615	-4.9	88	0.00
40 TM	Benzene	1.370	1.519	-10.9	92	0.01
41 T	Methacrylonitrile	0.108	0.104	3.7	77	0.00
42 TM	1,2-Dichloroethane	0.356	0.375	-5.3	88	0.00
43 T	Isopropyl Acetate	0.378	0.354	6.3	77	0.00
44 TM	Trichloroethene	0.354	0.419	-18.4	100	0.00
45 C	1,2-Dichloropropane	0.315	0.342	-8.6#	90	0.00
46 T	Dibromomethane	0.181	0.203	-12.2	93	0.00
47 T	Bromodichloromethane	0.466	0.521	-11.8	92	0.00
48 T	Methyl methacrylate	0.181	0.168	7.2	73	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023252.D
 Acq On : 02 Sep 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 03 03:26:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	86	0.00
50 S	Toluene-d8	1.169	1.273	-8.9	90	0.00
51 T	4-Methyl-2-Pentanone	0.195	0.192	1.5	78	0.00
52 CM	Toluene	0.870	0.991	-13.9#	94	0.00
53 T	t-1,3-Dichloropropene	0.422	0.452	-7.1	88	0.00
54 T	cis-1,3-Dichloropropene	0.499	0.542	-8.6	89	0.00
55 T	1,1,2-Trichloroethane	0.242	0.273	-12.8	93	0.00
56 T	Ethyl methacrylate	0.310	0.315	-1.6	80	0.00
57 T	1,3-Dichloropropane	0.411	0.441	-7.3	89	0.00
58 T	2-Chloroethyl Vinyl ether	0.146	0.143	2.1	75	0.00
59 T	2-Hexanone	0.133	0.138	-3.8	82	0.00
60 T	Dibromochloromethane	0.320	0.372	-16.2	95	0.00
61 T	1,2-Dibromoethane	0.228	0.253	-11.0	91	0.01
62 S	4-Bromofluorobenzene	0.376	0.409	-8.8	90	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.01
64 T	Tetrachloroethene	0.446	0.585	-31.2#	111	0.00
65 PM	Chlorobenzene	1.079	1.213	-12.4	95	0.00
66 T	1,1,1,2-Tetrachloroethane	0.366	0.427	-16.7	98	0.00
67 C	Ethyl Benzene	1.856	2.064	-11.2#	92	0.01
68 T	m/p-Xylenes	0.725	0.824	-13.7	95	0.00
69 T	o-Xylene	0.679	0.764	-12.5	92	0.00
70 T	Styrene	1.110	1.281	-15.4	94	0.00
71 P	Bromoform	0.214	0.247	-15.4	95	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00
73 T	Isopropylbenzene	3.529	3.854	-9.2	93	0.00
74 T	N-amyl acetate	0.748	0.674	9.9	74	0.00
75 P	1,1,2,2-Tetrachloroethane	0.603	0.572	5.1	83	0.00
76 T	1,2,3-Trichloropropane	0.483	0.472	2.3	75	0.00
77 T	Bromobenzene	0.842	0.946	-12.4	97	0.01
78 T	n-propylbenzene	4.201	4.569	-8.8	92	0.00
79 T	2-Chlorotoluene	2.407	2.592	-7.7	92	0.01
80 T	1,3,5-Trimethylbenzene	2.852	3.160	-10.8	94	0.00
81 T	trans-1,4-Dichloro-2-butene	0.199	0.194	2.5	83	0.00
82 T	4-Chlorotoluene	2.497	2.731	-9.4	94	0.01
83 T	tert-Butylbenzene	2.576	2.836	-10.1	93	0.00
84 T	1,2,4-Trimethylbenzene	2.839	3.141	-10.6	94	0.00
85 T	sec-Butylbenzene	3.784	4.178	-10.4	94	0.00
86 T	p-Isopropyltoluene	3.141	3.538	-12.6	95	0.00
87 T	1,3-Dichlorobenzene	1.660	1.894	-14.1	100	0.00
88 T	1,4-Dichlorobenzene	1.647	1.841	-11.8	97	0.00
89 T	n-Butylbenzene	2.885	3.142	-8.9	91	0.01
90 T	Hexachloroethane	0.643	0.730	-13.5	98	0.01
91 T	1,2-Dichlorobenzene	1.456	1.643	-12.8	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.094	0.088	6.4	78	0.00
93 T	1,2,4-Trichlorobenzene	0.861	0.967	-12.3	97	0.00
94 T	Hexachlorobutadiene	0.506	0.599	-18.4	103	0.00
95 T	Naphthalene	1.468	1.548	-5.4	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023252.D
Acq On : 02 Sep 2025 08:58
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Sep 03 03:26:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.742	0.832	-12.1	98	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023252.D
 Acq On : 02 Sep 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 03 03:26:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	88	0.00
2 T	Dichlorodifluoromethane	50.000	42.987	14.0	89	0.00
3 P	Chloromethane	50.000	41.771	16.5	80	0.00
4 C	Vinyl Chloride	50.000	43.619	12.8#	82	0.01
5 T	Bromomethane	50.000	45.318	9.4	90	0.00
6 T	Chloroethane	50.000	46.416	7.2	86	0.01
7 T	Trichlorofluoromethane	50.000	47.228	5.5	88	0.01
8 T	Diethyl Ether	50.000	46.780	6.4	86	0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	52.086	-4.2	98	0.02
10 T	Methyl Iodide	50.000	56.403	-12.8	96	0.01
11 T	Tert butyl alcohol	250.000	268.739	-7.5	97	0.00
12 CM	1,1-Dichloroethene	50.000	50.190	-0.4#	92	0.01
13 T	Acrolein	250.000	39.684	84.1#	15	0.00
14 T	Allyl chloride	50.000	45.512	9.0	83	0.01
15 T	Acrylonitrile	250.000	235.373	5.9	84	0.01
16 T	Acetone	250.000	283.254	-13.3	100	0.01
17 T	Carbon Disulfide	50.000	45.494	9.0	85	0.01
18 T	Methyl Acetate	50.000	47.767	4.5	80	0.01
19 T	Methyl tert-butyl Ether	50.000	47.852	4.3	85	0.00
20 T	Methylene Chloride	50.000	52.702	-5.4	98	0.01
21 T	trans-1,2-Dichloroethene	50.000	51.520	-3.0	94	0.01
22 T	Diisopropyl ether	50.000	47.563	4.9	86	0.00
23 T	Vinyl Acetate	250.000	226.220	9.5	81	0.01
24 P	1,1-Dichloroethane	50.000	49.613	0.8	90	0.00
25 T	2-Butanone	250.000	242.343	3.1	85	0.01
26 T	2,2-Dichloropropane	50.000	52.139	-4.3	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.742	-3.5	94	0.01
28 T	Bromochloromethane	50.000	47.273	5.5	86	0.00
29 T	Tetrahydrofuran	250.000	218.564	12.6	77	0.01
30 C	Chloroform	50.000	51.990	-4.0#	95	0.00
31 T	Cyclohexane	50.000	43.621	12.8	84	0.00
32 T	1,1,1-Trichloroethane	50.000	52.051	-4.1	95	0.00
33 S	1,2-Dichloroethane-d4	50.000	46.832	6.3	85	0.01
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	81	0.00
35 S	Dibromofluoromethane	50.000	54.854	-9.7	91	0.00
36 T	1,1-Dichloropropene	50.000	54.258	-8.5	90	0.01
37 T	Ethyl Acetate	50.000	47.755	4.5	77	0.00
38 T	Carbon Tetrachloride	50.000	57.140	-14.3	96	0.00
39 T	Methylcyclohexane	50.000	52.536	-5.1	88	0.00
40 TM	Benzene	50.000	55.436	-10.9	92	0.01
41 T	Methacrylonitrile	50.000	48.025	4.0	77	0.00
42 TM	1,2-Dichloroethane	50.000	52.643	-5.3	88	0.00
43 T	Isopropyl Acetate	50.000	46.913	6.2	77	0.00
44 TM	Trichloroethene	50.000	59.142	-18.3	100	0.00
45 C	1,2-Dichloropropane	50.000	54.263	-8.5#	90	0.00
46 T	Dibromomethane	50.000	56.219	-12.4	93	0.00
47 T	Bromodichloromethane	50.000	55.944	-11.9	92	0.00
48 T	Methyl methacrylate	50.000	46.547	6.9	73	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023252.D
 Acq On : 02 Sep 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 03 03:26:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1061.974	-6.2	86	0.00
50 S	Toluene-d8	50.000	54.466	-8.9	90	0.00
51 T	4-Methyl-2-Pentanone	250.000	246.566	1.4	78	0.00
52 CM	Toluene	50.000	56.940	-13.9#	94	0.00
53 T	t-1,3-Dichloropropene	50.000	53.650	-7.3	88	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.315	-8.6	89	0.00
55 T	1,1,2-Trichloroethane	50.000	56.274	-12.5	93	0.00
56 T	Ethyl methacrylate	50.000	50.903	-1.8	80	0.00
57 T	1,3-Dichloropropane	50.000	53.681	-7.4	89	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	244.384	2.2	75	0.00
59 T	2-Hexanone	250.000	259.655	-3.9	82	0.00
60 T	Dibromochloromethane	50.000	58.260	-16.5	95	0.00
61 T	1,2-Dibromoethane	50.000	55.524	-11.0	91	0.01
62 S	4-Bromofluorobenzene	50.000	54.376	-8.8	90	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	83	0.01
64 T	Tetrachloroethene	50.000	65.501	-31.0#	111	0.00
65 PM	Chlorobenzene	50.000	56.238	-12.5	95	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	58.333	-16.7	98	0.00
67 C	Ethyl Benzene	50.000	55.597	-11.2#	92	0.01
68 T	m/p-Xylenes	100.000	113.655	-13.7	95	0.00
69 T	o-Xylene	50.000	56.292	-12.6	92	0.00
70 T	Styrene	50.000	57.677	-15.4	94	0.00
71 P	Bromoform	50.000	57.712	-15.4	95	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	85	0.00
73 T	Isopropylbenzene	50.000	54.612	-9.2	93	0.00
74 T	N-amyl acetate	50.000	45.023	10.0	74	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	47.446	5.1	83	0.00
76 T	1,2,3-Trichloropropane	50.000	48.887	2.2	75	0.00
77 T	Bromobenzene	50.000	56.192	-12.4	97	0.01
78 T	n-propylbenzene	50.000	54.372	-8.7	92	0.00
79 T	2-Chlorotoluene	50.000	53.847	-7.7	92	0.01
80 T	1,3,5-Trimethylbenzene	50.000	55.400	-10.8	94	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	48.683	2.6	83	0.00
82 T	4-Chlorotoluene	50.000	54.672	-9.3	94	0.01
83 T	tert-Butylbenzene	50.000	55.046	-10.1	93	0.00
84 T	1,2,4-Trimethylbenzene	50.000	55.308	-10.6	94	0.00
85 T	sec-Butylbenzene	50.000	55.205	-10.4	94	0.00
86 T	p-Isopropyltoluene	50.000	56.319	-12.6	95	0.00
87 T	1,3-Dichlorobenzene	50.000	57.043	-14.1	100	0.00
88 T	1,4-Dichlorobenzene	50.000	55.878	-11.8	97	0.00
89 T	n-Butylbenzene	50.000	54.450	-8.9	91	0.01
90 T	Hexachloroethane	50.000	56.760	-13.5	98	0.01
91 T	1,2-Dichlorobenzene	50.000	56.435	-12.9	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.741	6.5	78	0.00
93 T	1,2,4-Trichlorobenzene	50.000	56.137	-12.3	97	0.00
94 T	Hexachlorobutadiene	50.000	59.191	-18.4	103	0.00
95 T	Naphthalene	50.000	52.723	-5.4	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023252.D
Acq On : 02 Sep 2025 08:58
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Sep 03 03:26:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	56.065	-12.1	98	0.00

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



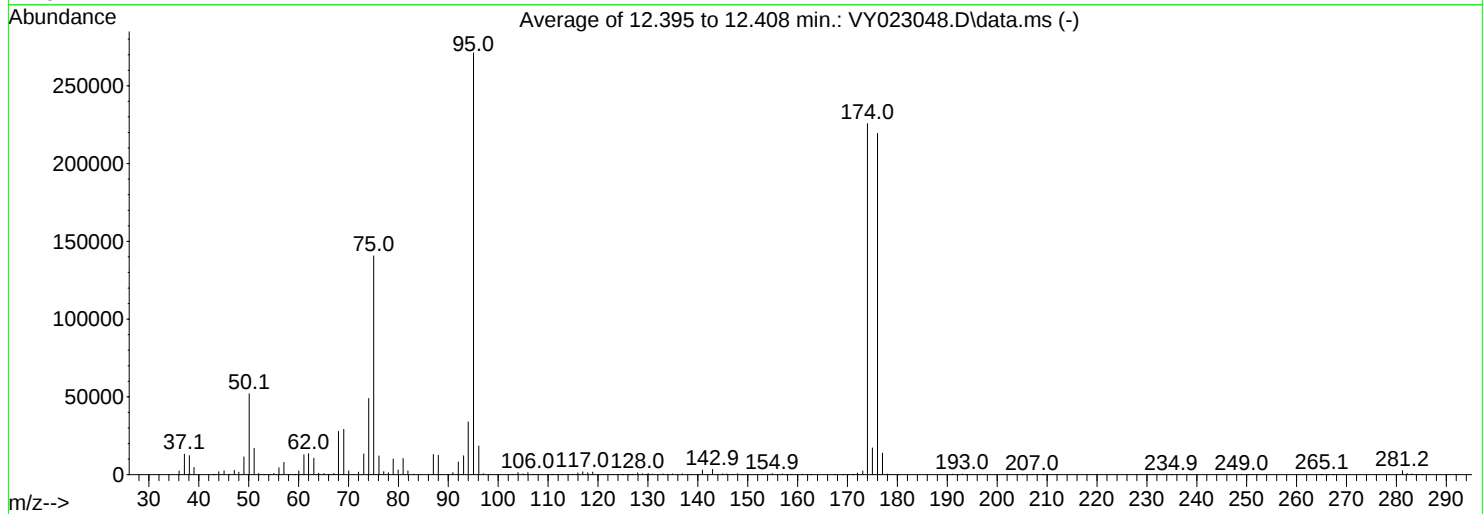
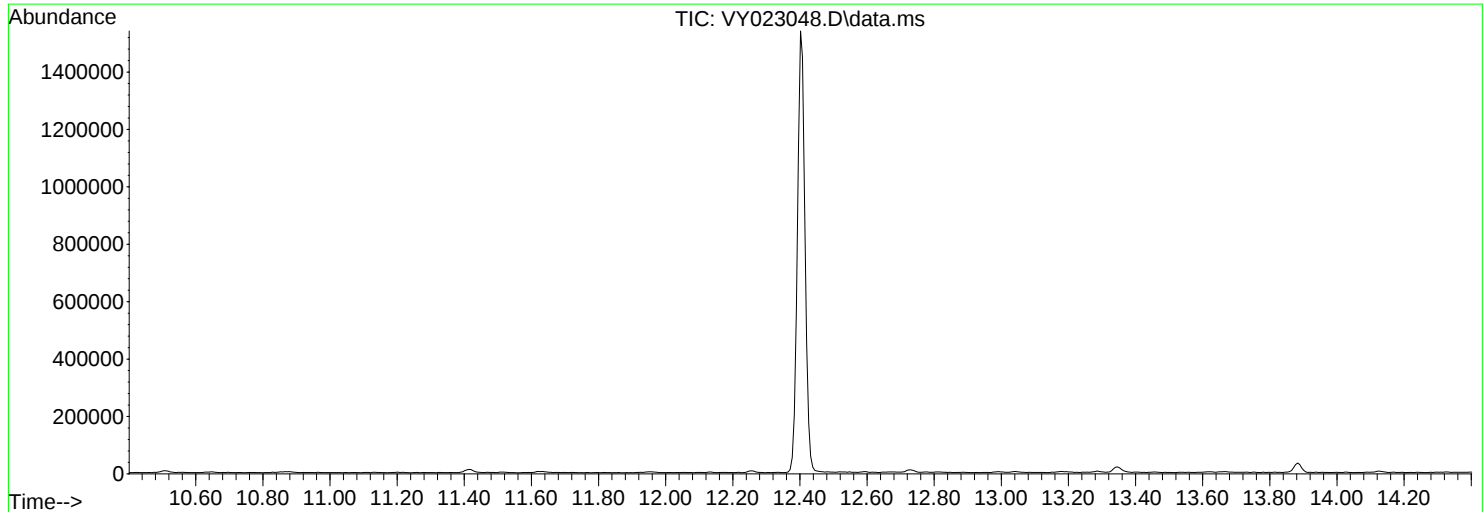
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023048.D
Acq On : 12 Aug 2025 08:26
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\82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025



AutoFind: Scans 1751, 1752, 1753; Background Corrected with Scan 1743

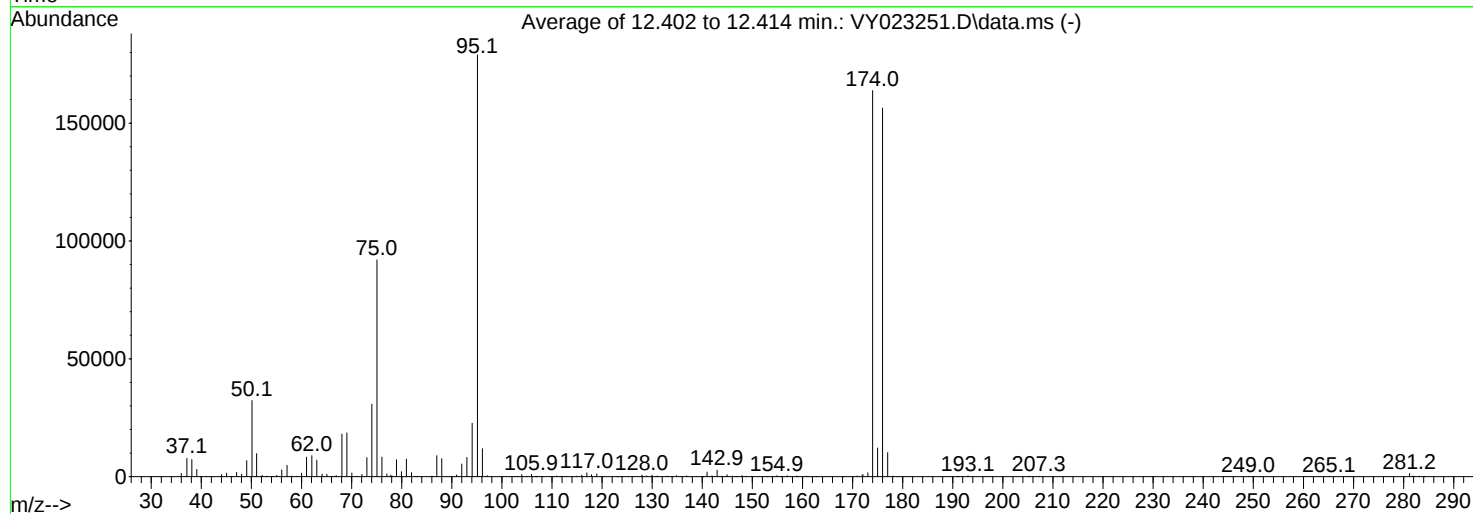
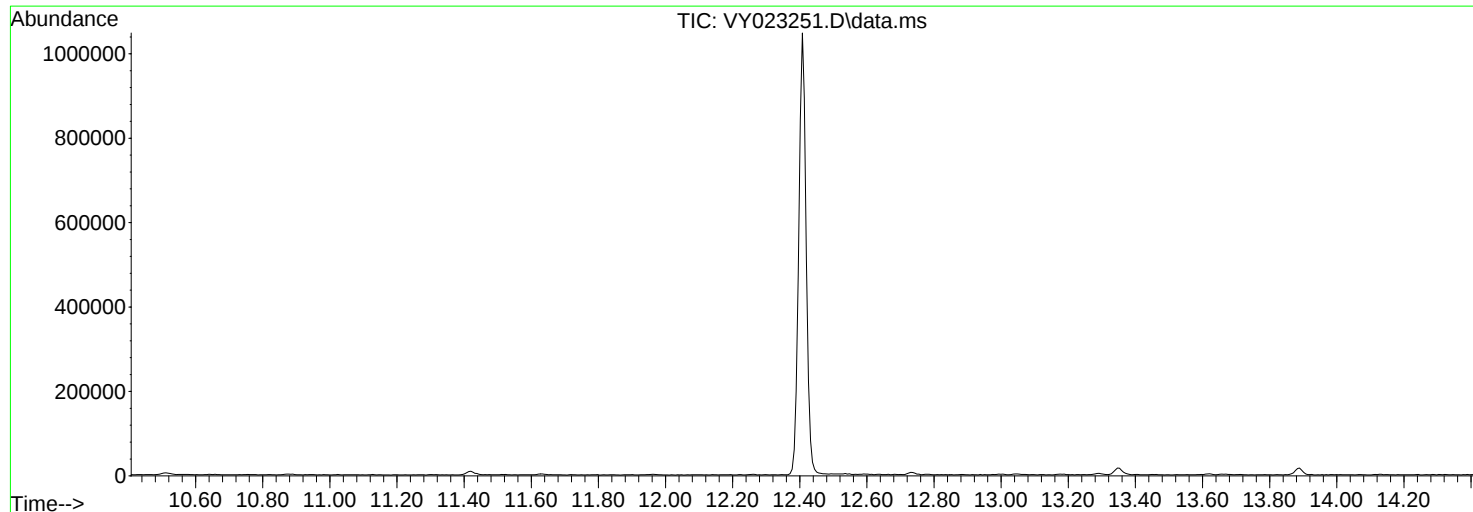
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	52107	PASS
75	95	30	60	51.9	140677	PASS
95	95	100	100	100.0	271211	PASS
96	95	5	9	6.8	18415	PASS
173	174	0.00	2	1.1	2383	PASS
174	95	50	100	83.2	225707	PASS
175	174	5	9	7.6	17158	PASS
176	174	95	101	97.2	219435	PASS
177	176	5	9	6.4	13937	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023251.D
Acq On : 02 Sep 2025 08:28
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\82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	32344	PASS
75	95	30	60	51.4	91987	PASS
95	95	100	100	100.0	178987	PASS
96	95	5	9	6.6	11885	PASS
173	174	0.00	2	1.0	1654	PASS
174	95	50	100	91.5	163840	PASS
175	174	5	9	7.4	12173	PASS
176	174	95	101	95.5	156408	PASS
177	176	5	9	6.5	10222	PASS

Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.			Date Collected:	
Project:	Bayshore Soil BSM Management			Date Received:	
Client Sample ID:	VY0902SBL01			SDG No.:	Q2994
Lab Sample ID:	VY0902SBL01			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023253.D	1	09/02/25 10:05	VY090225

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

Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.			Date Collected:	
Project:	Bayshore Soil BSM Management			Date Received:	
Client Sample ID:	VY0902SBL01			SDG No.:	Q2994
Lab Sample ID:	VY0902SBL01			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023253.D	1	09/02/25 10:05	VY090225

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	55.0		63 - 155	110%	SPK: 50
1868-53-7	Dibromofluoromethane	54.1		70 - 134	108%	SPK: 50
2037-26-5	Toluene-d8	51.0		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		17 - 146	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	634000	7.713			
540-36-3	1,4-Difluorobenzene	1180000	8.616			
3114-55-4	Chlorobenzene-d5	1070000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	430000	13.346			



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

Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.		Date Collected:	
Project:	Bayshore Soil BSM Management		Date Received:	
Client Sample ID:	VY0902SBL01		SDG No.:	Q2994
Lab Sample ID:	VY0902SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023253.D	1	09/02/25 10:05	VY090225

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023253.D
 Acq On : 02 Sep 2025 10:05
 Operator : SY/MD
 Sample : VY0902SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0902SBL01

Quant Time: Sep 03 03:26:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	633947	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1182526	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1069383	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.346	152	430142	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	332206	54.983	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	109.960%
35) Dibromofluoromethane	7.640	113	383018	54.130	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	108.260%
50) Toluene-d8	10.109	98	1409057	50.974	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	101.940%
62) 4-Bromofluorobenzene	12.408	95	413665	46.533	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	93.060%

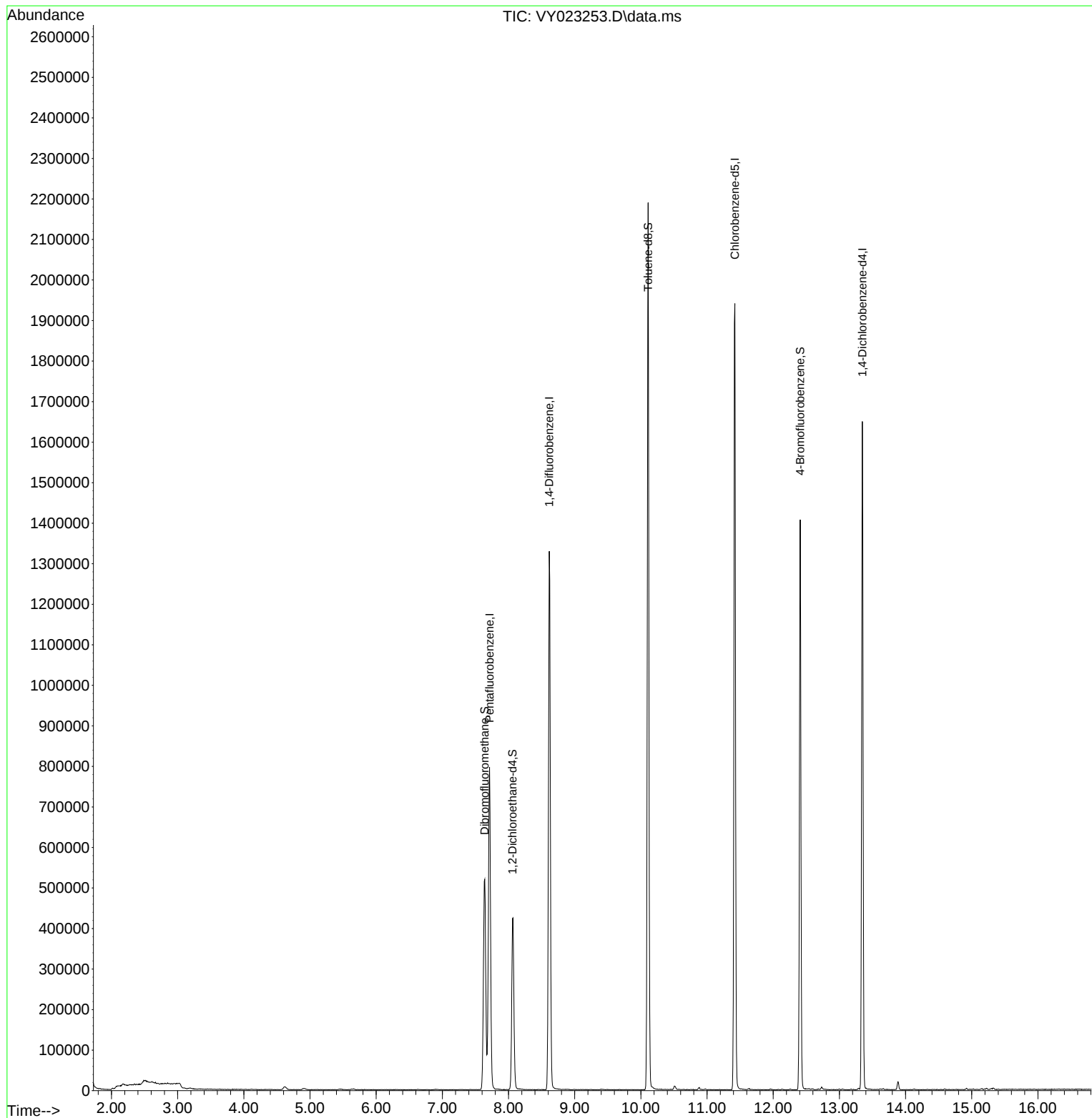
Target Compounds	Qvalue

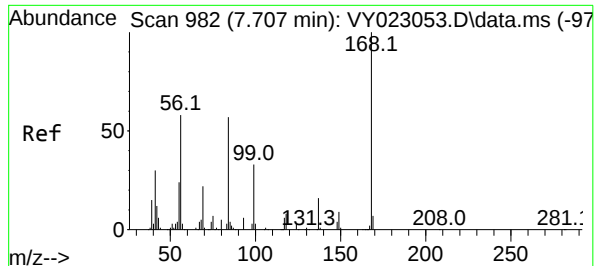
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023253.D
Acq On : 02 Sep 2025 10:05
Operator : SY/MD
Sample : VY0902SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0902SBL01

Quant Time: Sep 03 03:26:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

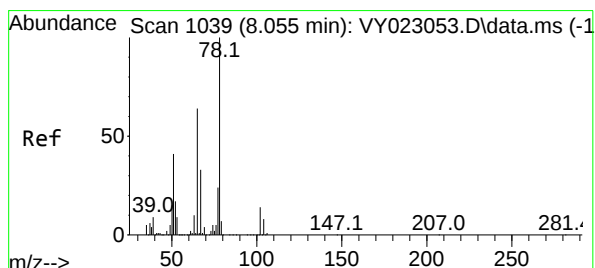
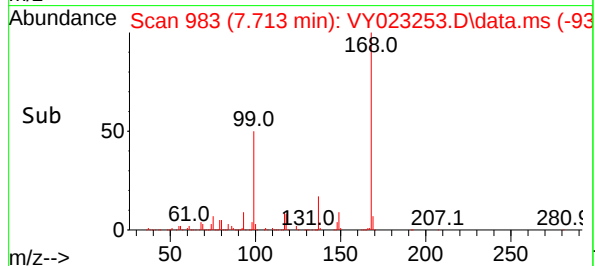
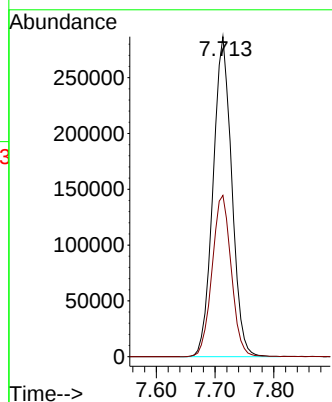
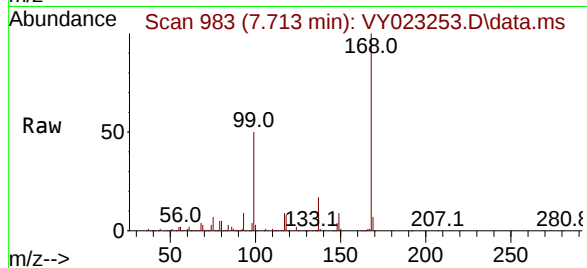




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023253.D
Acq: 02 Sep 2025 10:05

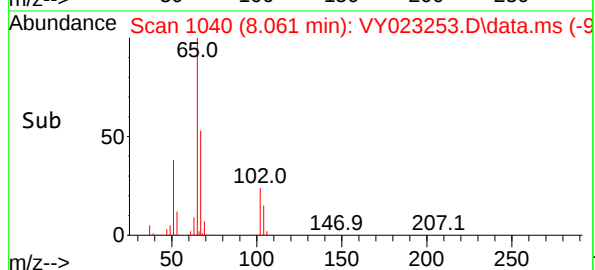
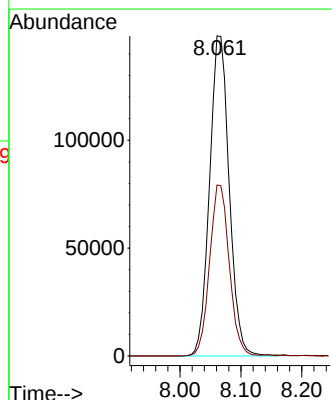
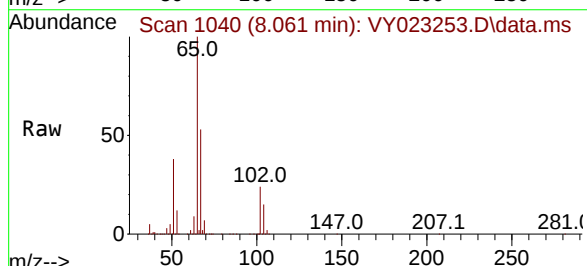
Instrument :
MSVOA_Y
ClientSampleId :
VY0902SBL01

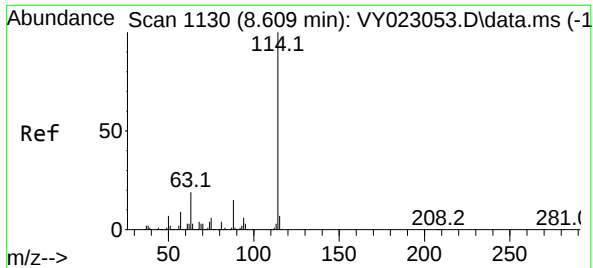
Tgt Ion:168 Resp: 633947
Ion Ratio Lower Upper
168 100
99 50.4 42.8 64.2



#33
1,2-Dichloroethane-d4
Concen: 54.983 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023253.D
Acq: 02 Sep 2025 10:05

Tgt Ion: 65 Resp: 332206
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VY023253.D

Acq: 02 Sep 2025 10:05

Instrument :

MSVOA_Y

ClientSampleId :

VY0902SBL01

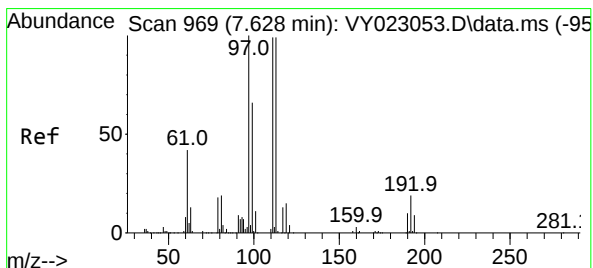
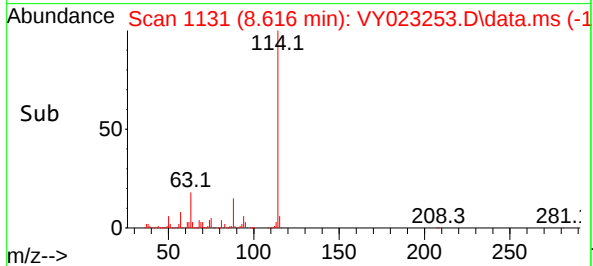
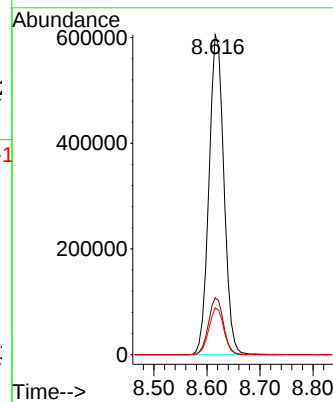
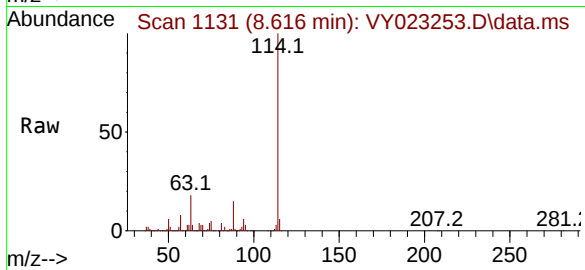
Tgt Ion:114 Resp: 1182526

Ion Ratio Lower Upper

114 100

63 17.8 0.0 38.4

88 14.7 0.0 30.0



#35

Dibromofluoromethane

Concen: 54.130 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.012 min

Lab File: VY023253.D

Acq: 02 Sep 2025 10:05

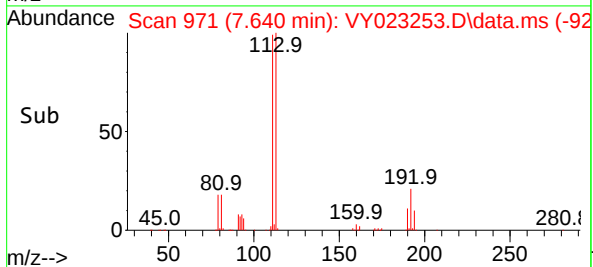
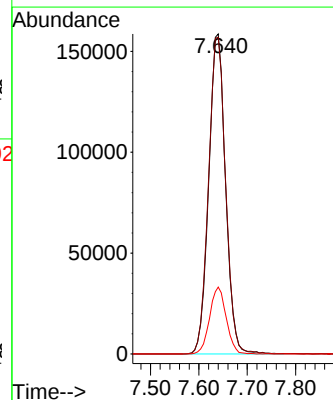
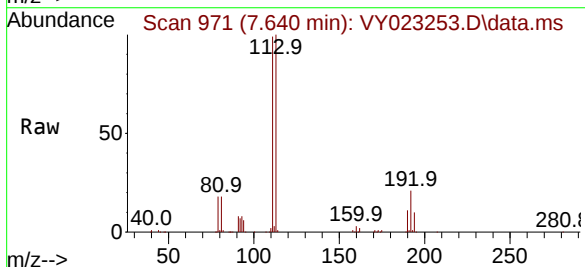
Tgt Ion:113 Resp: 383018

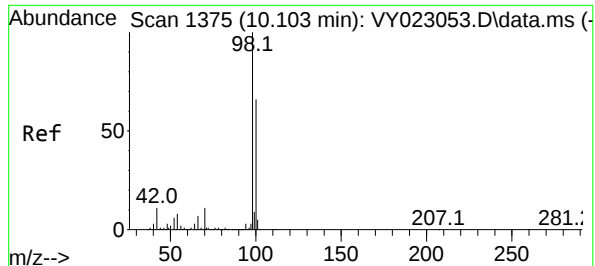
Ion Ratio Lower Upper

113 100

111 100.9 81.1 121.7

192 20.6 16.2 24.4





#50

Toluene-d8

Concen: 50.974 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. 0.006 min

Lab File: VY023253.D

Acq: 02 Sep 2025 10:05

Instrument :

MSVOA_Y

ClientSampleId :

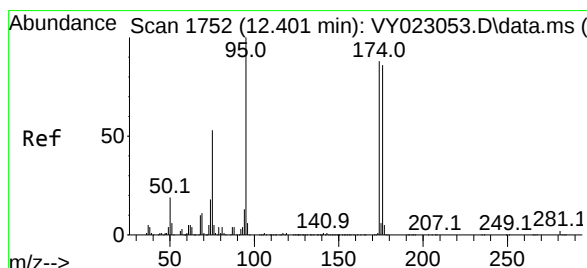
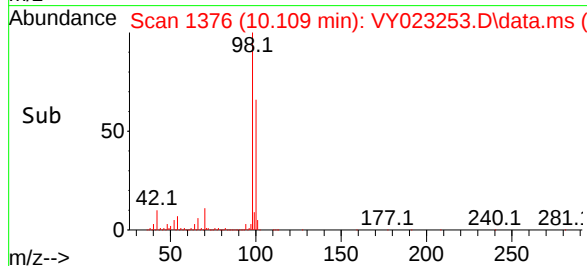
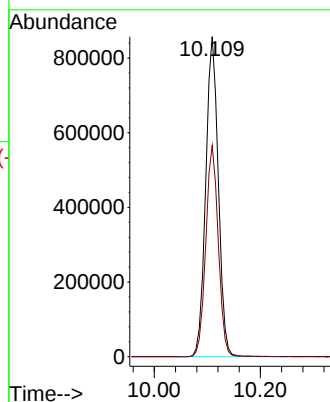
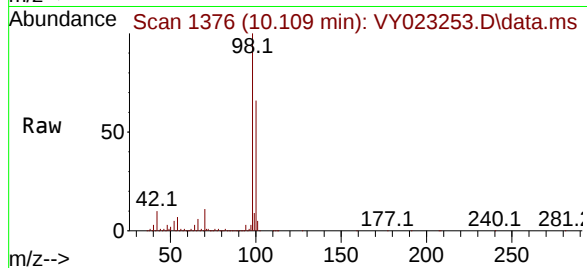
VY0902SBL01

Tgt Ion: 98 Resp: 1409057

Ion Ratio Lower Upper

98 100

100 65.5 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 46.533 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY023253.D

Acq: 02 Sep 2025 10:05

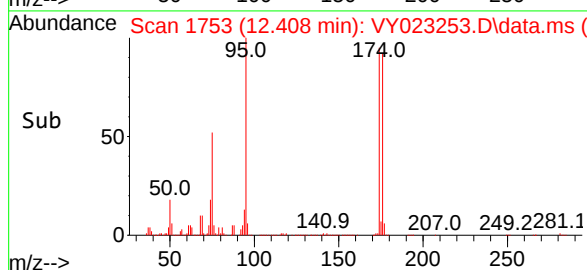
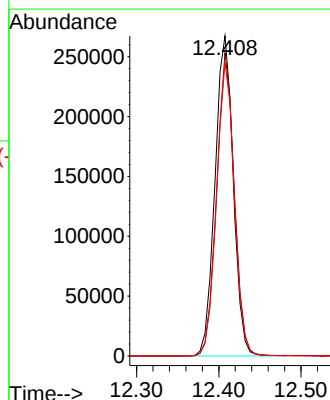
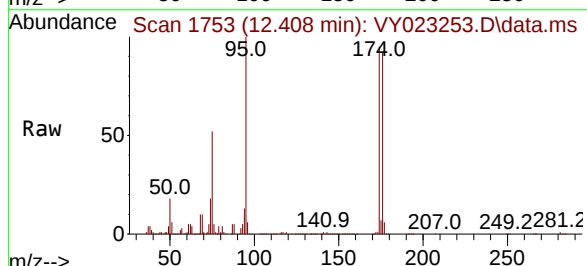
Tgt Ion: 95 Resp: 413665

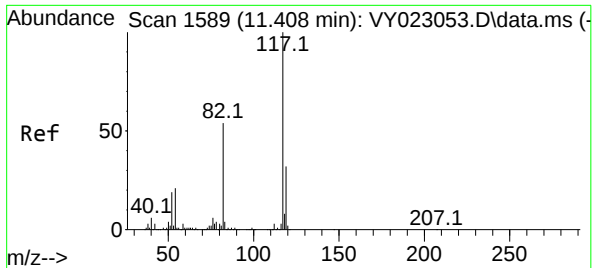
Ion Ratio Lower Upper

95 100

174 91.8 0.0 171.6

176 89.2 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY023253.D

Acq: 02 Sep 2025 10:05

Instrument :

MSVOA_Y

ClientSampleId :

VY0902SBL01

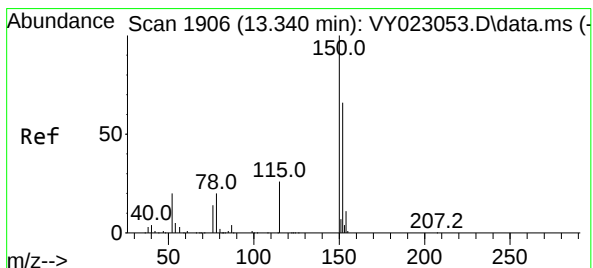
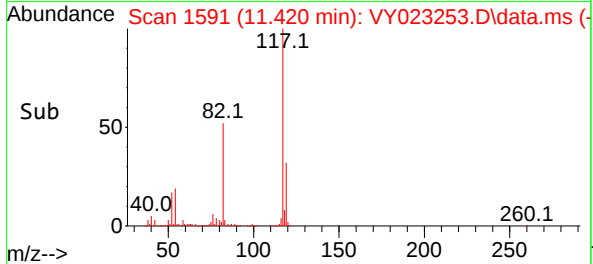
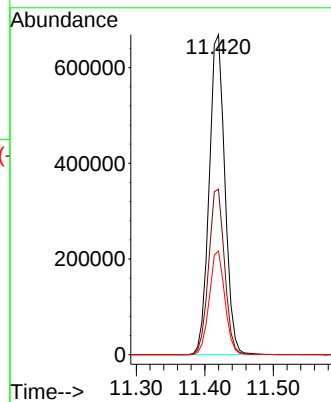
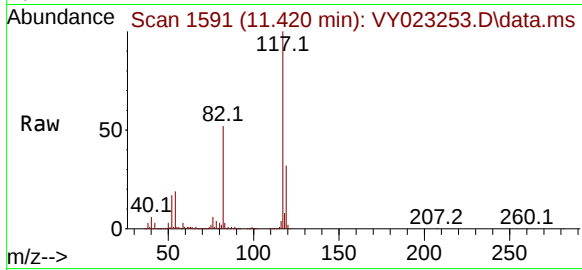
Tgt Ion:117 Resp: 1069383

Ion Ratio Lower Upper

117 100

82 51.7 43.4 65.0

119 32.4 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023253.D

Acq: 02 Sep 2025 10:05

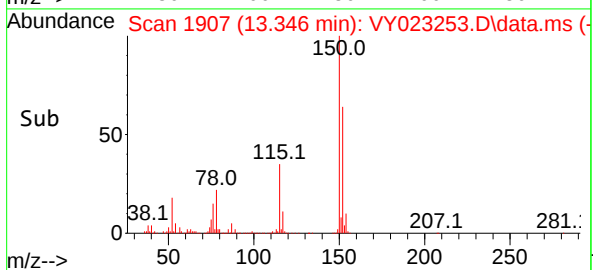
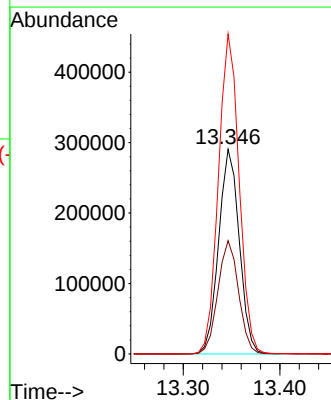
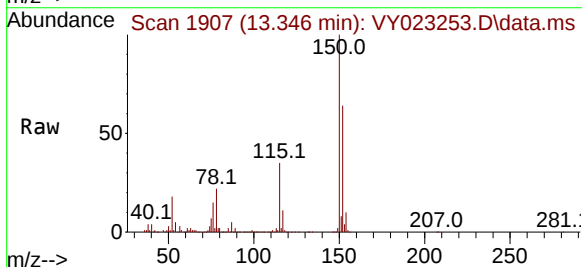
Tgt Ion:152 Resp: 430142

Ion Ratio Lower Upper

152 100

115 55.6 28.2 84.6

150 156.9 0.0 348.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023253.D
Acq On : 02 Sep 2025 10:05
Operator : SY/MD
Sample : VY0902SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0902SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M

Title : SW846 8260

Signal : TIC: VY023253.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.640	958	971	976	rBV	518937	1247518	34.32%	6.917%
2	7.713	976	983	996	rVB	794123	1802962	49.60%	9.997%
3	8.067	1030	1041	1052	rBV	423983	960528	26.43%	5.326%
4	8.616	1122	1131	1154	rBV	1328749	2620808	72.10%	14.532%
5	10.109	1367	1376	1398	rBV	2189035	3634839	100.00%	20.154%
6	11.420	1583	1591	1605	rBV	1939917	3138471	86.34%	17.402%
7	12.408	1745	1753	1765	rBV	1406099	2165602	59.58%	12.008%
8	13.346	1900	1907	1915	rBV	1647648	2464211	67.79%	13.664%

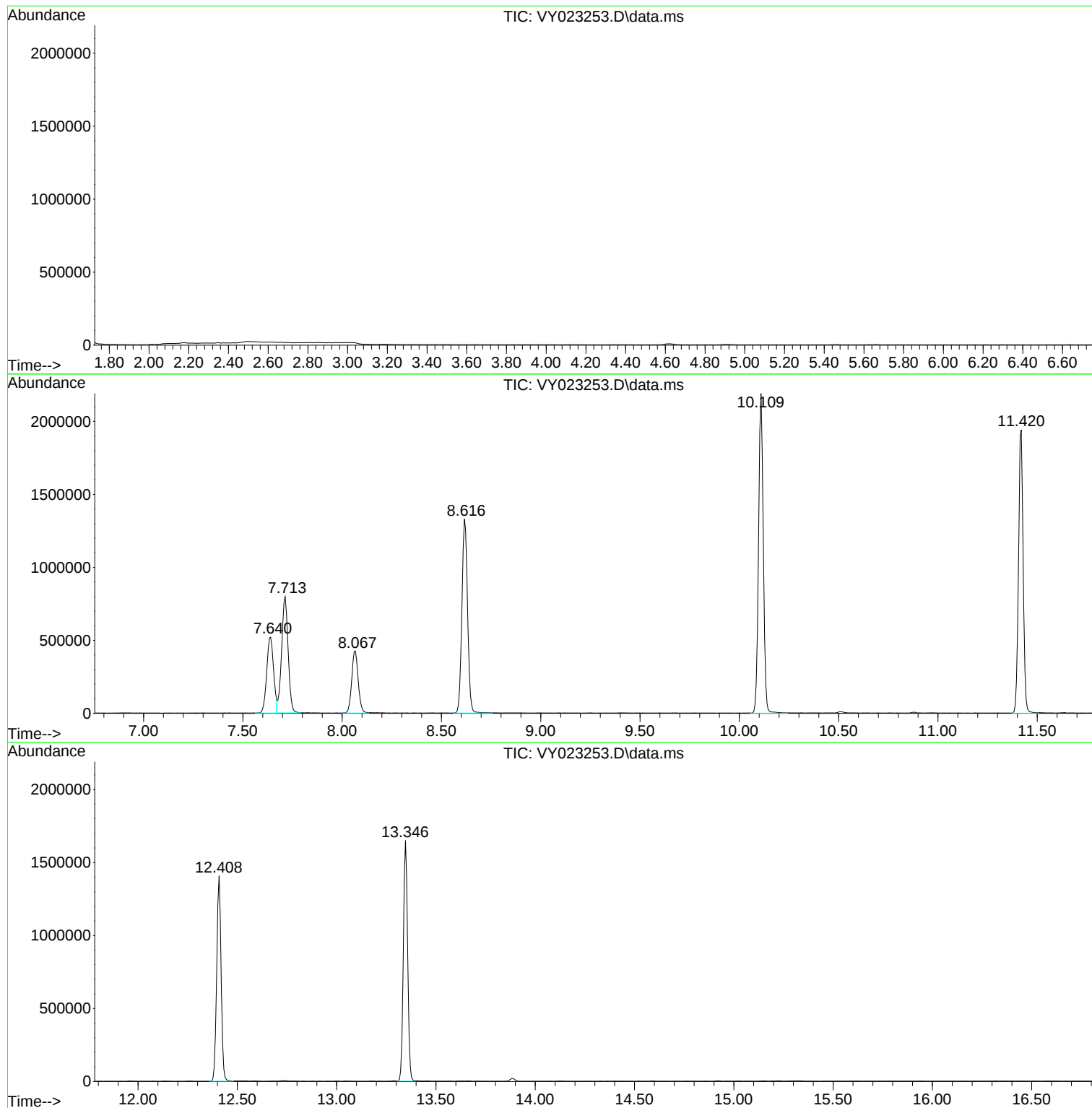
Sum of corrected areas: 18034939

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023253.D
Acq On : 02 Sep 2025 10:05
Operator : SY/MD
Sample : VY0902SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0902SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023253.D
Acq On : 02 Sep 2025 10:05
Operator : SY/MD
Sample : VY0902SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0902SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY090225\
Data File : VY023253.D
Acq On : 02 Sep 2025 10:05
Operator : SY/MD
Sample : VY0902SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0902SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.			Date Collected:	
Project:	Bayshore Soil BSM Management			Date Received:	
Client Sample ID:	VY0902SBS01			SDG No.:	Q2994
Lab Sample ID:	VY0902SBS01			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023254.D	1	09/02/25 10:32	VY090225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.8		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.7		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.1		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.8		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	22.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.4		1.00	5.00	ug/Kg
67-64-1	Acetone	140		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.9		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	19.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	27.8		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.0		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.7		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.5		0.79	5.00	ug/Kg
78-93-3	2-Butanone	120		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	22.5		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.3		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.7		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.8		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.5		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.2		0.91	5.00	ug/Kg
71-43-2	Benzene	21.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	23.6		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.8		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.5		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	21.8		0.78	5.00	ug/Kg

Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.			Date Collected:	
Project:	Bayshore Soil BSM Management			Date Received:	
Client Sample ID:	VY0902SBS01			SDG No.:	Q2994
Lab Sample ID:	VY0902SBS01			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023254.D	1	09/02/25 10:32	VY090225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	21.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.4		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.8		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	23.3		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	23.1		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	25.5		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	22.0		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	43.0		1.20	10.0	ug/Kg
95-47-6	o-Xylene	21.1		0.82	5.00	ug/Kg
100-42-5	Styrene	21.3		0.71	5.00	ug/Kg
75-25-2	Bromoform	23.6		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.9		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.6		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.3		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.6		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.6		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.1		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.9		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.1		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.1		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	51.9		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		17 - 146	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	456000	7.713			
540-36-3	1,4-Difluorobenzene	705000	8.616			
3114-55-4	Chlorobenzene-d5	631000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	332000	13.347			

Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.		Date Collected:	
Project:	Bayshore Soil BSM Management		Date Received:	
Client Sample ID:	VY0902SBS01		SDG No.:	Q2994
Lab Sample ID:	VY0902SBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023254.D	1	09/02/25 10:32	VY090225

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023254.D
 Acq On : 02 Sep 2025 10:32
 Operator : SY/MD
 Sample : VY0902SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0902SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/03/2025
 Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:27:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	456395	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	704595	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	630936	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	331529	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	213772	49.146	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	98.300%		
35) Dibromofluoromethane	7.634	113	224889	53.341	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	106.680%		
50) Toluene-d8	10.109	98	854184	51.862	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	103.720%		
62) 4-Bromofluorobenzene	12.408	95	272698	51.483	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	102.960%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	79076	21.226	ug/l	99
3) Chloromethane	2.074	50	116970	19.386	ug/l	99
4) Vinyl Chloride	2.208	62	147578	19.786	ug/l	100
5) Bromomethane	2.592	94	126202	22.656	ug/l	99
6) Chloroethane	2.739	64	99882	20.143	ug/l	99
7) Trichlorofluoromethane	3.056	101	188209	20.752	ug/l	100
8) Diethyl Ether	3.458	74	52084	21.706	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.818	101	99829	22.311	ug/l	97
10) Methyl Iodide	4.007	142	98371	20.374	ug/l	97
11) Tert butyl alcohol	4.860	59	29065	97.520	ug/l	99
12) 1,1-Dichloroethene	3.793	96	94227	21.425	ug/l	91
13) Acrolein	3.653	56	20459	46.872	ug/l	99
14) Allyl chloride	4.385	41	121370	18.755	ug/l	98
15) Acrylonitrile	5.061	53	102522	105.097	ug/l	99
16) Acetone	3.873	43	127317	135.106	ug/l	97
17) Carbon Disulfide	4.104	76	285706	19.923	ug/l	100
18) Methyl Acetate	4.385	43	55207	19.687	ug/l	96
19) Methyl tert-butyl Ether	5.122	73	228215	20.025	ug/l	100
20) Methylene Chloride	4.616	84	141871	27.764	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	103658	20.973	ug/l	96
22) Diisopropyl ether	6.019	45	277677	19.746	ug/l	94
23) Vinyl Acetate	5.964	43	749248	96.356	ug/l	98
24) 1,1-Dichloroethane	5.921	63	178165	20.723	ug/l	99
25) 2-Butanone	6.896	43	147913	115.409	ug/l	96
26) 2,2-Dichloropropane	6.890	77	155939	21.020	ug/l	97
27) cis-1,2-Dichloroethene	6.890	96	121553	21.274	ug/l	95
28) Bromochloromethane	7.250	49	74105	21.725	ug/l	92
29) Tetrahydrofuran	7.268	42	78522	98.840	ug/l	97
30) Chloroform	7.421	83	193153	21.783	ug/l	97
31) Cyclohexane	7.707	56	149954	18.508	ug/l	93
32) 1,1,1-Trichloroethane	7.622	97	169137	21.498	ug/l	99
36) 1,1-Dichloropropene	7.835	75	132778	21.191	ug/l	99
37) Ethyl Acetate	6.988	43	55273	21.000	ug/l	98
38) Carbon Tetrachloride	7.817	117	153135	22.502	ug/l	97
39) Methylcyclohexane	9.109	83	166749	20.209	ug/l	98
40) Benzene	8.085	78	420440	21.771	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023254.D
 Acq On : 02 Sep 2025 10:32
 Operator : SY/MD
 Sample : VY0902SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0902SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/03/2025
 Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:27:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	30115	19.825	ug/l	92
42) 1,2-Dichloroethane	8.158	62	108316	21.566	ug/l	99
43) Isopropyl Acetate	8.201	43	107240	20.159	ug/l	96
44) Trichloroethene	8.866	130	117554	23.555	ug/l	99
45) 1,2-Dichloropropane	9.140	63	97017	21.834	ug/l	97
46) Dibromomethane	9.231	93	57944	22.720	ug/l	95
47) Bromodichloromethane	9.427	83	147709	22.508	ug/l	98
48) Methyl methacrylate	9.219	41	50031	19.654	ug/l	94
49) 1,4-Dioxane	9.231	88	12634	422.484	ug/l	96
51) 4-Methyl-2-Pentanone	10.000	43	279928	102.011	ug/l	98
52) Toluene	10.170	92	267478	21.808	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	126561	21.297	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	150288	21.387	ug/l	94
55) 1,1,2-Trichloroethane	10.573	97	77733	22.778	ug/l	96
56) Ethyl methacrylate	10.439	69	85649	19.613	ug/l	97
57) 1,3-Dichloropropane	10.719	76	129608	22.394	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	194228	94.292	ug/l	95
59) 2-Hexanone	10.762	43	202142	108.182	ug/l	99
60) Dibromochloromethane	10.914	129	104774	23.267	ug/l	98
61) 1,2-Dibromoethane	11.012	107	74165	23.122	ug/l	98
64) Tetrachloroethene	10.646	164	143416	25.456	ug/l	98
65) Chlorobenzene	11.444	112	299955	22.040	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	106653	23.091	ug/l	98
67) Ethyl Benzene	11.518	91	483058	20.626	ug/l	99
68) m/p-Xylenes	11.627	106	392879	42.951	ug/l	96
69) o-Xylene	11.957	106	180336	21.050	ug/l	97
70) Styrene	11.969	104	298853	21.331	ug/l	98
71) Bromoform	12.133	173	63721	23.605	ug/l #	98
73) Isopropylbenzene	12.255	105	466356	19.931	ug/l	99
74) N-amyl acetate	12.072	43	88151	17.765	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.505	83	78270	19.590	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	60718m	18.977	ug/l	
77) Bromobenzene	12.530	156	118533	21.234	ug/l	94
78) n-propylbenzene	12.597	91	556041	19.960	ug/l	98
79) 2-Chlorotoluene	12.676	91	318200	19.936	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	383045	20.255	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.304	75	24854	18.803	ug/l	93
82) 4-Chlorotoluene	12.773	91	332815	20.100	ug/l	98
83) tert-Butylbenzene	12.999	119	338060	19.793	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	384551	20.428	ug/l	100
85) sec-Butylbenzene	13.176	105	503289	20.060	ug/l	100
86) p-Isopropyltoluene	13.292	119	418831	20.111	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	234219	21.276	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	235755	21.589	ug/l	99
89) n-Butylbenzene	13.615	91	372158	19.457	ug/l	99
90) Hexachloroethane	13.877	117	89650	21.028	ug/l	96
91) 1,2-Dichlorobenzene	13.657	146	208372	21.583	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12495	20.087	ug/l	91
93) 1,2,4-Trichlorobenzene	14.919	180	119064	20.855	ug/l	99
94) Hexachlorobutadiene	15.023	225	73759	21.986	ug/l	99
95) Naphthalene	15.145	128	187354	19.245	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	103841	21.107	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023254.D
Acq On : 02 Sep 2025 10:32
Operator : SY/MD
Sample : VY0902SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0902SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/03/2025
Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:27:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

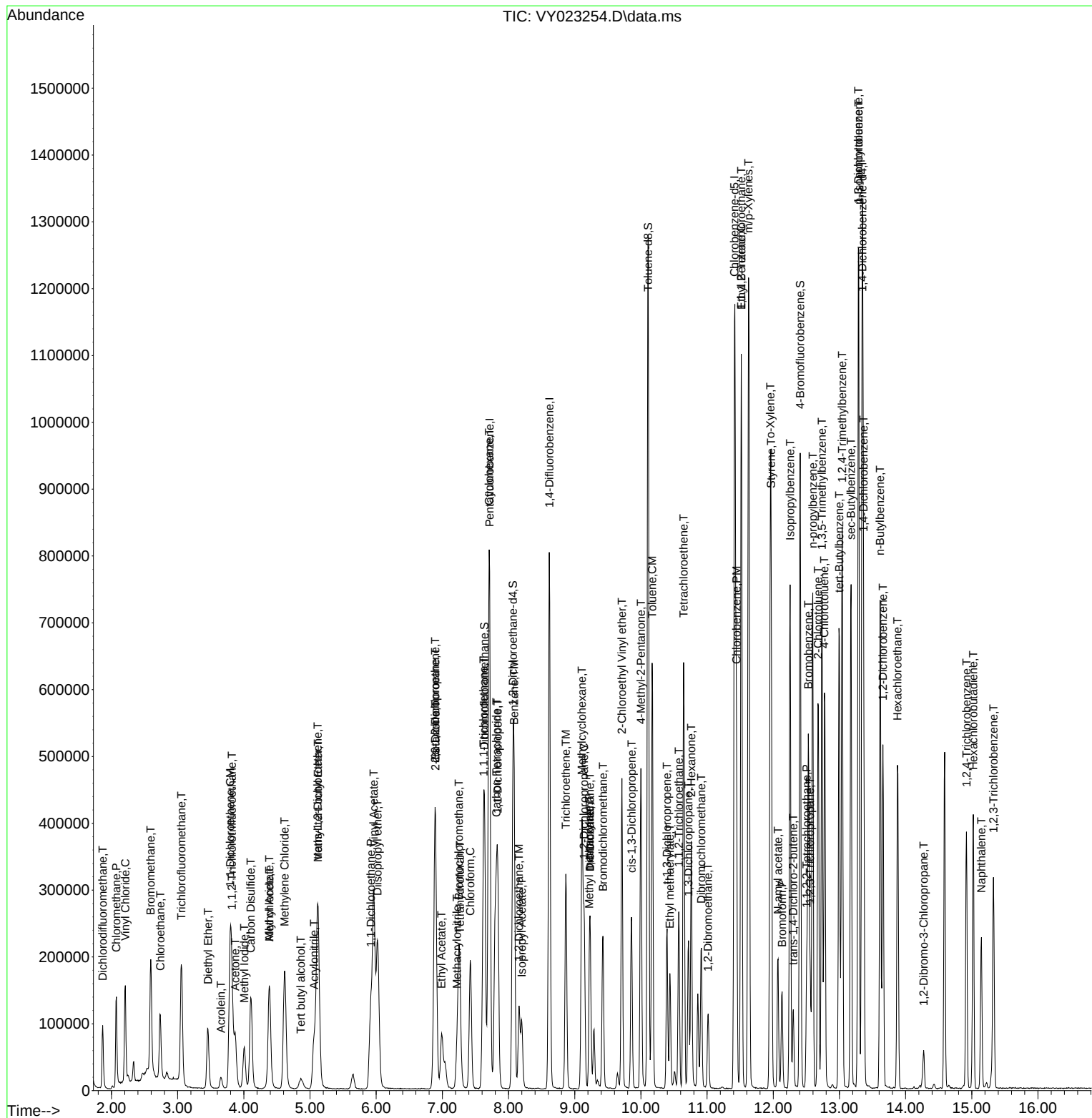
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023254.D
 Acq On : 02 Sep 2025 10:32
 Operator : SY/MD
 Sample : VY0902SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0902SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/03/2025
 Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:27:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration



Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.	Date Collected:	
Project:	Bayshore Soil BSM Management	Date Received:	
Client Sample ID:	VY0902SBSD01	SDG No.:	Q2994
Lab Sample ID:	VY0902SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023255.D	1	09/02/25 10:54	VY090225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.9		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.2		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.8		0.79	5.00	ug/Kg
74-83-9	Bromomethane	23.1		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.5		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	23.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	22.0		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.5		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.8		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	28.9		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	22.1		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.5		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	19.3		0.79	5.00	ug/Kg
78-93-3	2-Butanone	120		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	23.1		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.8		1.20	5.00	ug/Kg
67-66-3	Chloroform	22.5		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.4		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	21.3		0.91	5.00	ug/Kg
71-43-2	Benzene	22.5		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	24.3		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	22.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	23.1		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	22.8		0.78	5.00	ug/Kg

Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.			Date Collected:	
Project:	Bayshore Soil BSM Management			Date Received:	
Client Sample ID:	VY0902SBSD01			SDG No.:	Q2994
Lab Sample ID:	VY0902SBSD01			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023255.D	1	09/02/25 10:54	VY090225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	21.9		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	22.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	23.9		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	24.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	23.4		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	26.3		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	23.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	22.0		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	45.5		1.20	10.0	ug/Kg
95-47-6	o-Xylene	22.2		0.82	5.00	ug/Kg
100-42-5	Styrene	23.0		0.71	5.00	ug/Kg
75-25-2	Bromoform	24.7		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.5		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.4		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	23.5		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	22.8		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	23.3		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.4		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	23.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	23.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	55.2		70 - 134	110%	SPK: 50
2037-26-5	Toluene-d8	54.0		74 - 123	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.5		17 - 146	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	456000	7.713			
540-36-3	1,4-Difluorobenzene	701000	8.616			
3114-55-4	Chlorobenzene-d5	619000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	320000	13.346			

Report of Analysis

Client:	Core Environmental Consultants and Services, Inc.		Date Collected:	
Project:	Bayshore Soil BSM Management		Date Received:	
Client Sample ID:	VY0902SBSD01		SDG No.:	Q2994
Lab Sample ID:	VY0902SBSD01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023255.D	1	09/02/25 10:54	VY090225

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023255.D
 Acq On : 02 Sep 2025 10:54
 Operator : SY/MD
 Sample : VY0902SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0902SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/03/2025
 Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:28:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	455942	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	701236	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	619173	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	320346	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	218743	50.339	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.680%			
35) Dibromofluoromethane	7.640	113	231751	55.232	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.460%			
50) Toluene-d8	10.109	98	884490	53.959	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 107.920%			
62) 4-Bromofluorobenzene	12.402	95	281798	53.456	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.920%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	85341	22.931	ug/l	99
3) Chloromethane	2.074	50	121506	20.157	ug/l	99
4) Vinyl Chloride	2.208	62	155180	20.826	ug/l	100
5) Bromomethane	2.592	94	128710	23.129	ug/l	97
6) Chloroethane	2.739	64	106488	21.496	ug/l	95
7) Trichlorofluoromethane	3.056	101	198602	21.920	ug/l	98
8) Diethyl Ether	3.458	74	55366	23.097	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.818	101	102678	22.971	ug/l	96
10) Methyl Iodide	4.007	142	110729	22.957	ug/l	98
11) Tert butyl alcohol	4.860	59	29331	98.510	ug/l #	85
12) 1,1-Dichloroethene	3.793	96	96849	22.043	ug/l	93
13) Acrolein	3.659	56	20449	46.896	ug/l	96
14) Allyl chloride	4.385	41	125087	19.348	ug/l	97
15) Acrylonitrile	5.061	53	104036	106.755	ug/l	98
16) Acetone	3.873	43	126209	134.063	ug/l	97
17) Carbon Disulfide	4.110	76	298271	20.820	ug/l	98
18) Methyl Acetate	4.391	43	58229	20.785	ug/l	95
19) Methyl tert-butyl Ether	5.122	73	233646	20.522	ug/l	99
20) Methylene Chloride	4.616	84	147200	28.946	ug/l	93
21) trans-1,2-Dichloroethene	5.116	96	109083	22.093	ug/l	92
22) Diisopropyl ether	6.019	45	284440	20.247	ug/l	95
23) Vinyl Acetate	5.964	43	767489	98.800	ug/l	99
24) 1,1-Dichloroethane	5.915	63	184238	21.450	ug/l	99
25) 2-Butanone	6.896	43	151951	118.678	ug/l	100
26) 2,2-Dichloropropane	6.890	77	161696	21.817	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	124121	21.745	ug/l	96
28) Bromochloromethane	7.250	49	70910	20.809	ug/l	90
29) Tetrahydrofuran	7.268	42	80464	101.386	ug/l	98
30) Chloroform	7.421	83	199275	22.496	ug/l	97
31) Cyclohexane	7.707	56	156550	19.342	ug/l	92
32) 1,1,1-Trichloroethane	7.622	97	176198	22.417	ug/l	98
36) 1,1-Dichloropropene	7.835	75	136472	21.885	ug/l	98
37) Ethyl Acetate	6.988	43	56370	21.520	ug/l	99
38) Carbon Tetrachloride	7.823	117	156753	23.144	ug/l	96
39) Methylcyclohexane	9.109	83	174855	21.293	ug/l	98
40) Benzene	8.085	78	432067	22.481	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023255.D
 Acq On : 02 Sep 2025 10:54
 Operator : SY/MD
 Sample : VY0902SBSD01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0902SBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/03/2025
 Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:28:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	29778	19.698	ug/l	92
42) 1,2-Dichloroethane	8.158	62	111597	22.325	ug/l	98
43) Isopropyl Acetate	8.201	43	107847	20.370	ug/l	98
44) Trichloroethene	8.866	130	120465	24.254	ug/l	99
45) 1,2-Dichloropropane	9.146	63	98531	22.281	ug/l	98
46) Dibromomethane	9.231	93	59403	23.403	ug/l	96
47) Bromodichloromethane	9.426	83	150811	23.091	ug/l	99
48) Methyl methacrylate	9.219	41	51961	20.510	ug/l	96
49) 1,4-Dioxane	9.231	88	12026	404.079	ug/l	95
51) 4-Methyl-2-Pentanone	9.999	43	286299	104.833	ug/l	98
52) Toluene	10.170	92	278819	22.841	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	129589	21.911	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	156143	22.327	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	81143	23.891	ug/l	98
56) Ethyl methacrylate	10.438	69	88482	20.359	ug/l	97
57) 1,3-Dichloropropane	10.719	76	129653	22.509	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.713	63	203660	99.345	ug/l	97
59) 2-Hexanone	10.762	43	209125	112.455	ug/l	98
60) Dibromochloromethane	10.914	129	108207	24.145	ug/l	100
61) 1,2-Dibromoethane	11.018	107	74762	23.420	ug/l	99
64) Tetrachloroethene	10.646	164	145392	26.297	ug/l	99
65) Chlorobenzene	11.438	112	308324	23.086	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.518	131	107213	23.653	ug/l	99
67) Ethyl Benzene	11.518	91	504531	21.952	ug/l	99
68) m/p-Xylenes	11.627	106	408039	45.456	ug/l	97
69) o-Xylene	11.956	106	186541	22.188	ug/l	98
70) Styrene	11.969	104	316262	23.002	ug/l	98
71) Bromoform	12.133	173	65321	24.657	ug/l	99
73) Isopropylbenzene	12.255	105	486448	21.515	ug/l	99
74) N-amyl acetate	12.072	43	93069	19.410	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	82523	21.376	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	61018m	19.736	ug/l	
77) Bromobenzene	12.530	156	123390	22.876	ug/l	94
78) n-propylbenzene	12.597	91	586750	21.797	ug/l	99
79) 2-Chlorotoluene	12.682	91	337780	21.901	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	403714	22.094	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.304	75	26136	20.464	ug/l	99
82) 4-Chlorotoluene	12.779	91	349101	21.819	ug/l	97
83) tert-Butylbenzene	12.999	119	355521	21.542	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	400669	22.027	ug/l	99
85) sec-Butylbenzene	13.176	105	525239	21.665	ug/l	98
86) p-Isopropyltoluene	13.292	119	447634	22.245	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	249548	23.460	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	240974	22.837	ug/l	98
89) n-Butylbenzene	13.615	91	390272	21.116	ug/l	99
90) Hexachloroethane	13.877	117	95536	23.191	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	217175	23.280	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12891	21.447	ug/l	91
93) 1,2,4-Trichlorobenzene	14.919	180	127945	23.193	ug/l	99
94) Hexachlorobutadiene	15.023	225	78957	24.357	ug/l	99
95) Naphthalene	15.139	128	196830	20.924	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	109447	23.024	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023255.D
Acq On : 02 Sep 2025 10:54
Operator : SY/MD
Sample : VY0902SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0902SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/03/2025
Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:28:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

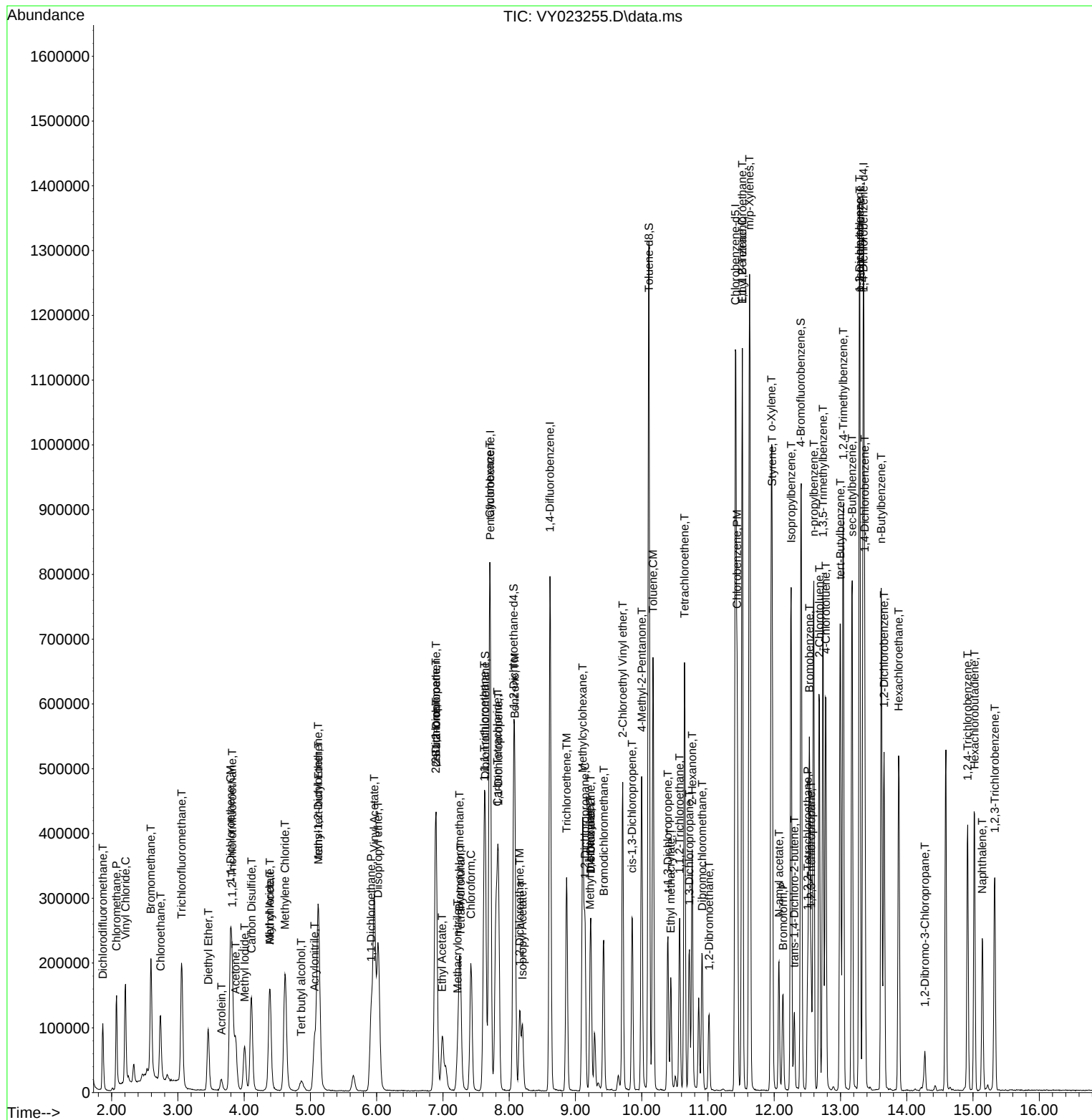
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
Data File : VY023255.D
Acq On : 02 Sep 2025 10:54
Operator : SY/MD
Sample : VY0902SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0902SBSD01

Manual Integrations

Reviewed By :Mahesh Dadoda 09/03/2025
Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Sep 03 03:28:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:

VY081225

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY023050.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:33:57 PM	SAM	8/14/2025 7:43:56 PM	Peak Integrated by Software
VSTDICC005	VY023050.D	Methacrylonitrile	MMDadod a	8/14/2025 7:33:57 PM	SAM	8/14/2025 7:43:56 PM	Peak Integrated by Software
VSTDICC010	VY023051.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:06 PM	SAM	8/14/2025 7:43:57 PM	Peak Integrated by Software
VSTDICC020	VY023052.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:08 PM	SAM	8/14/2025 7:43:59 PM	Peak Integrated by Software
VSTDICC020	VY023052.D	Methacrylonitrile	MMDadod a	8/14/2025 7:34:08 PM	SAM	8/14/2025 7:43:59 PM	Peak Integrated by Software
VSTDICCC050	VY023053.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:10 PM	SAM	8/14/2025 7:44:00 PM	Peak Integrated by Software
VSTDICC100	VY023054.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:12 PM	SAM	8/14/2025 7:44:02 PM	Peak Integrated by Software
VSTDICC150	VY023055.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:15 PM	SAM	8/14/2025 7:44:04 PM	Peak Integrated by Software
VSTDICV050	VY023057.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:16 PM	SAM	8/14/2025 7:44:06 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY090225

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023252.D	1,2,3-Trichloropropane	MMDadoda	9/3/2025 2:04:15 PM	SAM	9/3/2025 2:06:07 PM	Peak Integrated by Software
VY0902SBS01	VY023254.D	1,2,3-Trichloropropane	MMDadoda	9/3/2025 2:04:17 PM	SAM	9/3/2025 2:06:08 PM	Peak Integrated by Software
VY0902SBSD01	VY023255.D	1,2,3-Trichloropropane	MMDadoda	9/3/2025 2:04:18 PM	SAM	9/3/2025 2:06:14 PM	Peak Integrated by Software
VSTDCCC050	VY023267.D	1,2,3-Trichloropropane	MMDadoda	9/3/2025 2:04:21 PM	SAM	9/3/2025 2:06:45 PM	Peak Integrated by Software

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY081225

Review By	Mahesh Dadoda	Review On	8/14/2025 7:34:22 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2025 7:44:13 PM		
SubDirectory	VY081225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP135083			
Initial Calibration Stds		VP135084,VP135085,VP135086,VP135087,VP135088,VP135089			
CCC					
Internal Standard/PEM		VP133934			
ICV/I.BLK		VP135090			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023048.D	12 Aug 2025 08:26	SY/MD	Ok
2	VSTDICC005	VY023049.D	12 Aug 2025 14:32	SY/MD	Not Ok
3	VSTDICC005	VY023050.D	12 Aug 2025 14:54	SY/MD	Ok,M
4	VSTDICC010	VY023051.D	12 Aug 2025 15:17	SY/MD	Ok,M
5	VSTDICC020	VY023052.D	12 Aug 2025 15:40	SY/MD	Ok,M
6	VSTDICCC050	VY023053.D	12 Aug 2025 16:02	SY/MD	Ok,M
7	VSTDICC100	VY023054.D	12 Aug 2025 16:25	SY/MD	Ok,M
8	VSTDICC150	VY023055.D	12 Aug 2025 16:47	SY/MD	Ok,M
9	VIBLK	VY023056.D	12 Aug 2025 17:31	SY/MD	Ok
10	VSTDICV050	VY023057.D	12 Aug 2025 17:53	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY090225

Review By	Mahesh Dadoda	Review On	9/4/2025 1:06:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/4/2025 1:06:50 AM		
SubDirectory	VY090225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP135350			
CCC		VP135351,VP135352			
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	VY023251.D	02 Sep 2025 08:28	SY/MD	Ok
2	VSTDCCC050	VY023252.D	02 Sep 2025 08:58	SY/MD	Ok,M
3	VY0902SBL01	VY023253.D	02 Sep 2025 10:05	SY/MD	Ok
4	VY0902SBS01	VY023254.D	02 Sep 2025 10:32	SY/MD	Ok,M
5	VY0902SBSD01	VY023255.D	02 Sep 2025 10:54	SY/MD	Ok,M
6	Q2986-03	VY023256.D	02 Sep 2025 11:39	SY/MD	Ok
7	Q2982-03	VY023257.D	02 Sep 2025 12:02	SY/MD	Ok
8	Q2989-03	VY023258.D	02 Sep 2025 12:26	SY/MD	Ok
9	Q2996-01	VY023259.D	02 Sep 2025 12:49	SY/MD	Ok
10	Q2996-03	VY023260.D	02 Sep 2025 13:13	SY/MD	Ok
11	Q2996-05	VY023261.D	02 Sep 2025 13:36	SY/MD	Ok
12	Q2997-01	VY023262.D	02 Sep 2025 14:00	SY/MD	Ok,M
13	Q2998-01	VY023263.D	02 Sep 2025 14:23	SY/MD	Ok
14	Q2995-01	VY023264.D	02 Sep 2025 14:47	SY/MD	Ok
15	Q2994-01	VY023265.D	02 Sep 2025 15:10	SY/MD	Ok
16	VIBLK	VY023266.D	02 Sep 2025 15:33	SY/MD	Ok
17	VSTDCCC050	VY023267.D	02 Sep 2025 15:56	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY081225

Review By	Maresh Dadoda	Review On	8/14/2025 7:34:22 PM
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2025 7:44:13 PM
SubDirectory	VY081225	HP Acquire Method	MSVOA_Y HP Processing Method 82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135083 VP135084,VP135085,VP135086,VP135087,VP135088,VP135089
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133934 VP135090

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023048.D	12 Aug 2025 08:26		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY023049.D	12 Aug 2025 14:32	Not used	SY/MD	Not Ok
3	VSTDICC005	VSTDICC005	VY023050.D	12 Aug 2025 14:54		SY/MD	Ok,M
4	VSTDICC010	VSTDICC010	VY023051.D	12 Aug 2025 15:17		SY/MD	Ok,M
5	VSTDICC020	VSTDICC020	VY023052.D	12 Aug 2025 15:40	LR-20	SY/MD	Ok,M
6	VSTDICCC050	VSTDICCC050	VY023053.D	12 Aug 2025 16:02		SY/MD	Ok,M
7	VSTDICC100	VSTDICC100	VY023054.D	12 Aug 2025 16:25		SY/MD	Ok,M
8	VSTDICC150	VSTDICC150	VY023055.D	12 Aug 2025 16:47		SY/MD	Ok,M
9	VIBLK	VIBLK	VY023056.D	12 Aug 2025 17:31		SY/MD	Ok
10	VSTDICV050	ICVVY081225	VY023057.D	12 Aug 2025 17:53		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY090225

Review By	Maresh Dadoda	Review On	9/4/2025 1:06:08 AM
Supervise By	Semsettin Yesilyurt	Supervise On	9/4/2025 1:06:50 AM
SubDirectory	VY090225	HP Acquire Method	MSVOA_Y HP Processing Method 82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135350
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135351,VP135352 VP133934

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023251.D	02 Sep 2025 08:28		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023252.D	02 Sep 2025 08:58		SY/MD	Ok,M
3	VY0902SBL01	VY0902SBL01	VY023253.D	02 Sep 2025 10:05		SY/MD	Ok
4	VY0902SBS01	VY0902SBS01	VY023254.D	02 Sep 2025 10:32		SY/MD	Ok,M
5	VY0902SBSD01	VY0902SBSD01	VY023255.D	02 Sep 2025 10:54		SY/MD	Ok,M
6	Q2986-03	NORTH-TP-2	VY023256.D	02 Sep 2025 11:39	vial-B	SY/MD	Ok
7	Q2982-03	MOO-25-0244-0248	VY023257.D	02 Sep 2025 12:02	vial-B	SY/MD	Ok
8	Q2989-03	SOUTH-TP-6	VY023258.D	02 Sep 2025 12:26	vial-B	SY/MD	Ok
9	Q2996-01	CONTAINMENT-A	VY023259.D	02 Sep 2025 12:49	vial-A	SY/MD	Ok
10	Q2996-03	CONTAINMENT-B	VY023260.D	02 Sep 2025 13:13	vial-A	SY/MD	Ok
11	Q2996-05	CONTAINMENT-C	VY023261.D	02 Sep 2025 13:36	vial-A	SY/MD	Ok
12	Q2997-01	EO-01-082925	VY023262.D	02 Sep 2025 14:00	vial-A	SY/MD	Ok,M
13	Q2998-01	AU-05-082925	VY023263.D	02 Sep 2025 14:23	vial-A	SY/MD	Ok
14	Q2995-01	RT5427	VY023264.D	02 Sep 2025 14:47	vial-A	SY/MD	Ok
15	Q2994-01	PAULDING-WC1	VY023265.D	02 Sep 2025 15:10	vial-A	SY/MD	Ok
16	VIBLK	VIBLK	VY023266.D	02 Sep 2025 15:33		SY/MD	Ok
17	VSTDCCC050	VSTDCCC050EC	VY023267.D	02 Sep 2025 15:56		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 9/2/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:33
Out Date: 08/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137021

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
Q2987-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q2987-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q2987-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q2987-08	SVOC-GPC2-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q2987-09	PEST-GPC2-BLANK	5	1.00	1.00	2.00	2.00	100.0	
Q2987-10	PEST-GPC2-BLANK-SPIKE	6	1.00	1.00	2.00	2.00	100.0	
Q2989-01	SOUTH-TP-5	7	1.15	11.15	12.3	10.9	87.4	
Q2989-02	SOUTH-TP-5-E2	8	1.16	10.65	11.81	10.23	85.2	
Q2989-03	SOUTH-TP-6	9	1.18	10.81	11.99	10.74	88.4	
Q2989-04	SOUTH-TP-6-E2	10	1.17	10.22	11.39	10.31	89.4	
Q2991-01	309	11	1.00	1.00	2.00	2.00	100.0	debris
Q2991-02	309	12	1.00	1.00	2.00	2.00	100.0	debris
Q2991-03	303-304-305-COMP	13	1.15	10.50	11.65	11.22	95.9	
Q2991-04	303	14	1.19	10.15	11.34	10.93	96.0	
Q2991-05	304	15	1.19	10.48	11.67	11.27	96.2	
Q2991-06	305	16	1.14	10.47	11.61	11.21	96.2	
Q2992-01	BC274767-A	17	1.00	1.00	2.00	2.00	100.0	PILC
Q2992-02	BC274767-B	18	1.00	1.00	2.00	2.00	100.0	PILC
Q2994-01	PAULDING-WC1	19	1.15	10.74	11.89	10.92	91.0	
Q2995-01	RT5427	20	1.19	10.76	11.95	11.03	91.4	
Q2996-01	CONTAINMENT-A	21	1.00	1.00	2.00	2.00	100.0	STONE SAMPLE, 100% SOLIDS
Q2996-03	CONTAINMENT-B	22	1.00	1.00	2.00	2.00	100.0	STONE SAMPLE, 100% SOLIDS
Q2996-05	CONTAINMENT-C	23	1.00	1.00	2.00	2.00	100.0	STONE SAMPLE, 100% SOLIDS
Q2997-01	EO-01-082925	24	1.15	10.53	11.68	10.88	92.4	
Q2997-02	EO-01-082925-E2	25	1.12	10.87	11.99	11.05	91.4	
Q2998-01	AU-05-082925	26	1.19	10.93	12.12	11.52	94.5	

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

WORKLIST(Hardcopy Internal Chain)

137021

WorkList Name : %1-082925 WorkList ID : 191576 Department : Wet-Chemistry Date : 08-29-2025 08:22:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2987-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D21	08/22/2025	Chemtech -SO
Q2987-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D21	08/22/2025	Chemtech -SO
Q2987-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D21	08/22/2025	Chemtech -SO
Q2987-08	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D21	08/22/2025	Chemtech -SO
Q2987-09	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D21	08/22/2025	Chemtech -SO
Q2987-10	PEST -GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D21	08/22/2025	Chemtech -SO
Q2989-01	SOUTH-TP-5	Solid	Percent Solids	Cool 4 deg C	CHEM02	D21	08/22/2025	Chemtech -SO
Q2989-02	SOUTH-TP-5-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	08/22/2025	Chemtech -SO
Q2989-03	SOUTH-TP-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	08/29/2025	Chemtech -SO
Q2989-04	SOUTH-TP-6-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	08/29/2025	Chemtech -SO
Q2991-01	309	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	08/29/2025	Chemtech -SO
Q2991-02	309	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/29/2025	Chemtech -SO
Q2991-03	303-304-305-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/29/2025	Chemtech -SO
Q2991-04	303	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/29/2025	Chemtech -SO
Q2991-05	304	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/29/2025	Chemtech -SO
Q2991-06	305	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/29/2025	Chemtech -SO
Q2992-01	BC274767-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/29/2025	Chemtech -SO
Q2992-02	BC274767-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/29/2025	Chemtech -SO
Q2994-01	PAULDING-WC1	Solid	Percent Solids	Cool 4 deg C	CORE02	D31	08/29/2025	Chemtech -SO
Q2995-01	RT5427	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/29/2025	Chemtech -SO
Q2996-01	CONTAINMENT-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/29/2025	Chemtech -SO

Date/Time 08/29/25 16:15
Raw Sample Received by: SP (SOM)
Raw Sample Relinquished by: SP (SOM)
Date/Time 08/29/25 17:35
Raw Sample Received by: JD CSOM1
Raw Sample Relinquished by: SP (SOM)

WORKLIST(Hardcopy Internal Chain)

132021

WorkList Name : %1-082925 WorkList ID : 191576 Department : Wet-Chemistry Date : 08-29-2025 08:22:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2996-03	CONTAINMENT-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/29/2025	Chemtech -SO
Q2996-05	CONTAINMENT-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/29/2025	Chemtech -SO
Q2997-01	EO-01-082925	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	08/29/2025	Chemtech -SO
Q2997-02	EO-01-082925-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	08/29/2025	Chemtech -SO
Q2998-01	AU-05-082925	Solid	Percent Solids	Cool 4 deg C	PSEG05	D21	08/29/2025	Chemtech -SO

Date/Time 08/29/25 16:15
 Raw Sample Received by: SP CSM
 Raw Sample Relinquished by: SP CSM

Date/Time 08/29/25 17:35
 Raw Sample Received by: SP CSM
 Raw Sample Relinquished by: SP CSM



SHIPPING DOCUMENTS

CLIENT INFORMATION

COMPANY: Core Environmental Consultants
ADDRESS: 22-48 119th Street
CITY Queens STATE: NY ZIP: 11356
ATTENTION: Roland Scardino
PHONE: 609-781-8074 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: BNY - Paelding street WC
PROJECT NO.: 0829258 LOCATION: Brooklyn, NY
PROJECT MANAGER: Roland Scardino
e-mail: RScardino@COREENV.COM
PHONE: 609-781-8074 FAX:

CLIENT BILLING INFORMATION

BILL TO: Core Env PO#:
ADDRESS: 23412 Wehrle Dr.
CITY Buffalo STATE: NY ZIP: 14221
ATTENTION: Joe Zaher PHONE: (716) 204-8054

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STANDARD DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☒ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☒ EDD FORMAT EQUS

1. EPH-NF 2. Percent Solids 3. Residuals-TCL 4. SVOC-TCL 5. Mercury Methods 6. RCRA-8 methods 7. PCB 8. Point Filter 9. VOC-TCL/VA-10

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1. <u>Paelding</u>	<u>Paelding-WC I</u>																
2.	<u>Paelding-WC I</u>	Soil	✓		8/29/25	09:00	7	X	X	X	X	X	X	X	X	X	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>Michael Bayar</u>	DATE/TIME: <u>8/29/25 9am</u>	RECEIVED BY: 1. <u>Roland Scardino</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.2</u> °C
RELINQUISHED BY SAMPLER: 2. <u>Roland Scardino</u>	DATE/TIME: <u>8-29-25</u>	RECEIVED BY: <u>1306</u>	Comments:
RELINQUISHED BY SAMPLER: 3. <u></u>	DATE/TIME: <u>8-29-25</u>	RECEIVED BY: <u>3.</u>	

Page _____ of _____ CLIENT: ☐ Hand Delivered ☐ Other _____ Shipment Complete ☐ YES ☐ NO

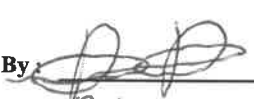
Laboratory Certification

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	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2994	CORE02	Order Date : 8/29/2025 1:47:15 PM	Project Mgr :
Client Name : Core Environmental Consul		Project Name : Bayshore Soil BSM Manag	Report Type : Level 2
Client Contact : Ronald Tramosch		Receive DateTime : 8/29/2025 12:00:00 AM	EDD Type : Excel NY
Invoice Name : Core Environmental Consul		Purchase Order :	Hard Copy Date :
Invoice Contact : Ronald Tramosch			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2994-01	PAULDING-WC1	Solid	08/29/2025	09:00	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By : Date / Time : 8-29-25 1610Received By : Date / Time : 8/29/25 1610

Storage Area : VOA Refridgerator Room