

Cover Page

Order ID : Q2393

Project ID : 190 Park Ave Hanover Twp NJ - PO 2556-001

Client : Union Paving & Construction Company

Lab Sample Number

Q2393-01
Q2393-02
Q2393-03
Q2393-04
Q2393-05
Q2393-06
Q2393-07
Q2393-08
Q2393-09
Q2393-10
Q2393-11
Q2393-12

Client Sample Number

PARK AVE -1
PARK AVE -1
PARK AVE -2
PARK AVE -2
PARK AVE -3
PARK AVE -3
PARK AVE -4
PARK AVE -4
PARK AVE -5
PARK AVE -5
PARK AVE -6
PARK AVE -6

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: 6/28/2025

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 #: Q2393

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 Custody

✓

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: PRATHA PARGHI

Date: 06/28/2025

LAB CHRONICLE

OrderID:	Q2393	OrderDate:	6/23/2025 11:43:58 AM
Client:	Union Paving & Construction Company	Project:	190 Park Ave Hanover Twp NJ - PO 2556-001
Contact:	Gerard Busacco	Location:	A22,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2393-02	PARK AVE -1	SOIL	VOC-TCLVOA-10	8260D	06/23/25		06/24/25	06/23/25
Q2393-04	PARK AVE -2	SOIL	VOC-TCLVOA-10	8260D	06/23/25		06/24/25	06/23/25
Q2393-06	PARK AVE -3	SOIL	VOC-TCLVOA-10	8260D	06/23/25		06/24/25	06/23/25
Q2393-08	PARK AVE -4	SOIL	VOC-TCLVOA-10	8260D	06/23/25		06/24/25	06/23/25
Q2393-10	PARK AVE -5	SOIL	VOC-TCLVOA-10	8260D	06/23/25		06/24/25	06/23/25
Q2393-12	PARK AVE -6	SOIL	VOC-TCLVOA-10	8260D	06/23/25		06/24/25	06/23/25

Hit Summary Sheet
SW-846

SDG No.: Q2393

Client: Union Paving & Construction Company

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	PARK AVE -3							
Q2393-06	PARK AVE -3	SOIL	Trichlorofluoromethane	7.20		1.00	4.30	ug/Kg
Q2393-06	PARK AVE -3	SOIL	Acetone	61.6		4.10	21.5	ug/Kg
Q2393-06	PARK AVE -3	SOIL	2-Butanone	23.9		5.60	21.5	ug/Kg
			Total Voc :			92.7		
Q2393-06	PARK AVE -3	SOIL	1,2,4-Trimethylbenzene	* 0.90	J	0.55	4.30	ug/Kg
			Total Tics :			0.90		
			Total Concentration:			93.6		
Client ID:	PARK AVE -4							
Q2393-08	PARK AVE -4	SOIL	Trichlorofluoromethane	4.30		0.82	3.40	ug/Kg
Q2393-08	PARK AVE -4	SOIL	Acetone	83.6		3.20	16.9	ug/Kg
Q2393-08	PARK AVE -4	SOIL	Carbon Disulfide	1.10	J	0.72	3.40	ug/Kg
Q2393-08	PARK AVE -4	SOIL	2-Butanone	49.3		4.40	16.9	ug/Kg
			Total Voc :			138		
Q2393-08	PARK AVE -4	SOIL	1,2,4-Trimethylbenzene	* 0.79	J	0.43	3.40	ug/Kg
			Total Tics :			0.79		
			Total Concentration:			139		
Client ID:	PARK AVE -5							
Q2393-10	PARK AVE -5	SOIL	Trichlorofluoromethane	2.80	J	1.50	6.20	ug/Kg
Q2393-10	PARK AVE -5	SOIL	Acetone	11.6	J	5.90	31.1	ug/Kg
			Total Voc :			14.4		
			Total Concentration:			14.4		
Client ID:	PARK AVE -6							
Q2393-12	PARK AVE -6	SOIL	Trichlorofluoromethane	13.9		1.10	4.70	ug/Kg
Q2393-12	PARK AVE -6	SOIL	Acetone	22.2	J	4.40	23.3	ug/Kg
			Total Voc :			36.1		
			Total Concentration:			36.1		



QC SUMMARY

Surrogate Summary

SDG No.: Q2393

Client: Union Paving & Construction Company

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2393-02	PARK AVE -1	1,2-Dichloroethane-d4	50	48.6	97	63	155
		Dibromofluoromethane	50	49.0	98	70	134
		Toluene-d8	50	49.6	99	74	123
		4-Bromofluorobenzene	50	57.6	115	17	146
Q2393-04	PARK AVE -2	1,2-Dichloroethane-d4	50	55.8	112	63	155
		Dibromofluoromethane	50	52.0	104	70	134
		Toluene-d8	50	50.0	100	74	123
		4-Bromofluorobenzene	50	61.1	122	17	146
Q2393-06	PARK AVE -3	1,2-Dichloroethane-d4	50	48.8	98	63	155
		Dibromofluoromethane	50	49.3	99	70	134
		Toluene-d8	50	48.4	97	74	123
		4-Bromofluorobenzene	50	56.5	113	17	146
Q2393-08	PARK AVE -4	1,2-Dichloroethane-d4	50	48.2	96	63	155
		Dibromofluoromethane	50	48.7	97	70	134
		Toluene-d8	50	49.5	99	74	123
		4-Bromofluorobenzene	50	55.2	110	17	146
Q2393-10	PARK AVE -5	1,2-Dichloroethane-d4	50	46.8	94	63	155
		Dibromofluoromethane	50	49.1	98	70	134
		Toluene-d8	50	48.5	97	74	123
		4-Bromofluorobenzene	50	51.6	103	17	146
Q2393-12	PARK AVE -6	1,2-Dichloroethane-d4	50	50.0	100	63	155
		Dibromofluoromethane	50	50.2	100	70	134
		Toluene-d8	50	49.4	99	74	123
		4-Bromofluorobenzene	50	54.2	108	17	146
VY0624SBL01	VY0624SBL01	1,2-Dichloroethane-d4	50	54.5	109	63	155
		Dibromofluoromethane	50	52.4	105	70	134
		Toluene-d8	50	49.2	98	74	123
		4-Bromofluorobenzene	50	42.8	86	17	146
VY0624SBS01	VY0624SBS01	1,2-Dichloroethane-d4	50	50.7	101	63	155
		Dibromofluoromethane	50	51.1	102	70	134
		Toluene-d8	50	50.7	101	74	123
		4-Bromofluorobenzene	50	48.5	97	17	146
VY0624SBSD01	VY0624SBSD01	1,2-Dichloroethane-d4	50	48.6	97	63	155
		Dibromofluoromethane	50	49.7	99	70	134
		Toluene-d8	50	50.5	101	74	123
		4-Bromofluorobenzene	50	47.7	95	17	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2393

Client: Union Paving & Construction Company

Analytical Method: SW8260D

Datafile : VY022787.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0624SBS01	Dichlorodifluoromethane	20	20.7	ug/Kg	104			64	136	
	Chloromethane	20	20.4	ug/Kg	102			52	151	
	Vinyl chloride	20	20.3	ug/Kg	102			56	148	
	Bromomethane	20	21.4	ug/Kg	107			58	141	
	Chloroethane	20	20.3	ug/Kg	102			69	130	
	Trichlorofluoromethane	20	20.2	ug/Kg	101			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.5	ug/Kg	103			81	123	
	1,1-Dichloroethene	20	20.1	ug/Kg	101			79	121	
	Acetone	100	100	ug/Kg	100			40	171	
	Carbon disulfide	20	20.5	ug/Kg	103			59	130	
	Methyl tert-butyl Ether	20	20.1	ug/Kg	101			77	129	
	Methyl Acetate	20	18.7	ug/Kg	94			69	149	
	Methylene Chloride	20	18.3	ug/Kg	92			72	131	
	trans-1,2-Dichloroethene	20	20.2	ug/Kg	101			80	123	
	1,1-Dichloroethane	20	20.5	ug/Kg	103			82	123	
	Cyclohexane	20	20.1	ug/Kg	101			76	122	
	2-Butanone	100	100	ug/Kg	100			69	131	
	Carbon Tetrachloride	20	19.9	ug/Kg	100			76	129	
	cis-1,2-Dichloroethene	20	19.9	ug/Kg	100			82	123	
	Bromochloromethane	20	20.5	ug/Kg	103			80	127	
	Chloroform	20	19.9	ug/Kg	100			82	125	
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103			80	126	
	Methylcyclohexane	20	20.1	ug/Kg	101			77	123	
	Benzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	20.1	ug/Kg	101			81	126	
	Trichloroethene	20	19.9	ug/Kg	100			83	122	
	1,2-Dichloropropane	20	20.3	ug/Kg	102			83	122	
	Bromodichloromethane	20	20.4	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			70	135	
	Toluene	20	19.8	ug/Kg	99			83	122	
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98			78	124	
	cis-1,3-Dichloropropene	20	20.2	ug/Kg	101			81	122	
	1,1,2-Trichloroethane	20	20.3	ug/Kg	102			82	125	
	2-Hexanone	100	98.6	ug/Kg	99			66	138	
	Dibromochloromethane	20	19.6	ug/Kg	98			79	125	
	1,2-Dibromoethane	20	20.0	ug/Kg	100			80	125	
	Tetrachloroethene	20	18.6	ug/Kg	93			83	125	
	Chlorobenzene	20	19.7	ug/Kg	99			84	122	
	Ethyl Benzene	20	19.5	ug/Kg	98			82	124	
	m/p-Xylenes	40	39.0	ug/Kg	98			83	124	
	o-Xylene	20	19.0	ug/Kg	95			83	123	
	Styrene	20	19.1	ug/Kg	96			82	124	
	Bromoform	20	18.8	ug/Kg	94			75	127	
	Isopropylbenzene	20	20.1	ug/Kg	101			82	124	
	1,1,2,2-Tetrachloroethane	20	21.8	ug/Kg	109			77	127	
	1,3-Dichlorobenzene	20	19.7	ug/Kg	99			83	122	
	1,4-Dichlorobenzene	20	19.5	ug/Kg	98			84	121	
	1,2-Dichlorobenzene	20	19.4	ug/Kg	97			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2393

Client: Union Paving & Construction Company

Analytical Method: SW8260D

Datafile : VY022787.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0624SBS01	1,2-Dibromo-3-Chloropropane	20	19.4	ug/Kg	97			66	134	
	1,2,4-Trichlorobenzene	20	19.1	ug/Kg	96			78	127	
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2393

Client: Union Paving & Construction Company

Analytical Method: SW8260D

Datafile : VY022788.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0624SBSD01	Dichlorodifluoromethane	20	21.6	ug/Kg	108	4		64	136	20
	Chloromethane	20	19.9	ug/Kg	100	2		52	151	20
	Vinyl chloride	20	20.6	ug/Kg	103	1		56	148	20
	Bromomethane	20	20.6	ug/Kg	103	4		58	141	20
	Chloroethane	20	20.0	ug/Kg	100	2		69	130	20
	Trichlorofluoromethane	20	20.7	ug/Kg	104	3		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105	2		81	123	20
	1,1-Dichloroethene	20	20.0	ug/Kg	100	1		79	121	20
	Acetone	100	94.2	ug/Kg	94	6		40	171	20
	Carbon disulfide	20	20.5	ug/Kg	103	0		59	130	20
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96	5		77	129	20
	Methyl Acetate	20	17.5	ug/Kg	88	7		69	149	20
	Methylene Chloride	20	17.9	ug/Kg	90	2		72	131	20
	trans-1,2-Dichloroethene	20	19.8	ug/Kg	99	2		80	123	20
	1,1-Dichloroethane	20	20.3	ug/Kg	102	1		82	123	20
	Cyclohexane	20	20.2	ug/Kg	101	0		76	122	20
	2-Butanone	100	93.6	ug/Kg	94	6		69	131	20
	Carbon Tetrachloride	20	20.6	ug/Kg	103	3		76	129	20
	cis-1,2-Dichloroethene	20	19.5	ug/Kg	98	2		82	123	20
	Bromochloromethane	20	20.2	ug/Kg	101	2		80	127	20
	Chloroform	20	19.7	ug/Kg	99	1		82	125	20
	1,1,1-Trichloroethane	20	20.4	ug/Kg	102	1		80	126	20
	Methylcyclohexane	20	20.3	ug/Kg	102	1		77	123	20
	Benzene	20	20.2	ug/Kg	101	0		84	121	20
	1,2-Dichloroethane	20	20.3	ug/Kg	102	1		81	126	20
	Trichloroethene	20	20.6	ug/Kg	103	3		83	122	20
	1,2-Dichloropropane	20	20.0	ug/Kg	100	2		83	122	20
	Bromodichloromethane	20	19.9	ug/Kg	100	2		82	123	20
	4-Methyl-2-Pentanone	100	95.0	ug/Kg	95	5		70	135	20
	Toluene	20	20.0	ug/Kg	100	1		83	122	20
	t-1,3-Dichloropropene	20	19.3	ug/Kg	97	1		78	124	20
	cis-1,3-Dichloropropene	20	19.6	ug/Kg	98	3		81	122	20
	1,1,2-Trichloroethane	20	19.8	ug/Kg	99	3		82	125	20
	2-Hexanone	100	90.5	ug/Kg	91	8		66	138	20
	Dibromochloromethane	20	19.6	ug/Kg	98	0		79	125	20
	1,2-Dibromoethane	20	19.1	ug/Kg	96	4		80	125	20
	Tetrachloroethene	20	21.6	ug/Kg	108	15		83	125	20
	Chlorobenzene	20	20.1	ug/Kg	101	2		84	122	20
	Ethyl Benzene	20	20.1	ug/Kg	101	3		82	124	20
	m/p-Xylenes	40	39.5	ug/Kg	99	1		83	124	20
	o-Xylene	20	19.3	ug/Kg	97	2		83	123	20
	Styrene	20	19.3	ug/Kg	97	1		82	124	20
	Bromoform	20	19.0	ug/Kg	95	1		75	127	20
	Isopropylbenzene	20	20.5	ug/Kg	103	2		82	124	20
	1,1,2,2-Tetrachloroethane	20	18.7	ug/Kg	94	15		77	127	20
	1,3-Dichlorobenzene	20	20.1	ug/Kg	101	2		83	122	20
	1,4-Dichlorobenzene	20	19.7	ug/Kg	99	1		84	121	20
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99	2		83	124	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2393

Client: Union Paving & Construction Company

Analytical Method: SW8260D

Datafile : VY022788.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0624SBSD01	1,2-Dibromo-3-Chloropropane	20	19.1	ug/Kg	96	1		66	134	20
	1,2,4-Trichlorobenzene	20	20.0	ug/Kg	100	4		78	127	20
	1,2,3-Trichlorobenzene	20	19.5	ug/Kg	98	3		70	137	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0624SBL01

Lab Name: CHEMTECH

Contract: UNIO02

Lab Code: CHEM Case No.: Q2393

SAS No.: Q2393 SDG NO.: Q2393

Lab File ID: VY022786.D

Lab Sample ID: VY0624SBL01

Date Analyzed: 06/24/2025

Time Analyzed: 10:25

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
VY0624SBS01	VY0624SBS01	VY022787.D	06/24/2025
VY0624SBSD01	VY0624SBSD01	VY022788.D	06/24/2025
PARK AVE -1	Q2393-02	VY022795.D	06/24/2025
PARK AVE -2	Q2393-04	VY022796.D	06/24/2025
PARK AVE -3	Q2393-06	VY022797.D	06/24/2025
PARK AVE -4	Q2393-08	VY022798.D	06/24/2025
PARK AVE -5	Q2393-10	VY022799.D	06/24/2025
PARK AVE -6	Q2393-12	VY022800.D	06/24/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: UNIO02
Lab Code: CHEM Case No.: Q2393 SAS No.: Q2393 SDG NO.: Q2393
Lab File ID: VY022775.D BFB Injection Date: 06/23/2025
Instrument ID: MSVOA_Y BFB Injection Time: 10:17
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

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

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY022776.D	06/23/2025	13:38
VSTDIC010	VSTDIC010	VY022777.D	06/23/2025	14:00
VSTDIC020	VSTDIC020	VY022778.D	06/23/2025	14:23
VSTDIC050	VSTDIC050	VY022779.D	06/23/2025	14:46
VSTDIC100	VSTDIC100	VY022780.D	06/23/2025	15:08
VSTDIC150	VSTDIC150	VY022781.D	06/23/2025	15:31



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: UNIO02
Lab Code: CHEM Case No.: Q2393 SAS No.: Q2393 SDG NO.: Q2393
Lab File ID: VY022784.D BFB Injection Date: 06/24/2025
Instrument ID: MSVOA_Y BFB Injection Time: 08:49
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	55.8
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 (1.2) 1
174	50.0 - 100.0% of mass 95	79.8
175	5.0 - 9.0% of mass 174	6.2 (7.7) 1
176	95.0 - 101.0% of mass 174	77.4 (96.9) 1
177	5.0 - 9.0% of mass 176	5.1 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022785.D	06/24/2025	09:20
VY0624SBL01	VY0624SBL01	VY022786.D	06/24/2025	10:25
VY0624SBS01	VY0624SBS01	VY022787.D	06/24/2025	10:58
VY0624SBSD01	VY0624SBSD01	VY022788.D	06/24/2025	11:21
PARK AVE -1	Q2393-02	VY022795.D	06/24/2025	14:19
PARK AVE -2	Q2393-04	VY022796.D	06/24/2025	14:42
PARK AVE -3	Q2393-06	VY022797.D	06/24/2025	15:06
PARK AVE -4	Q2393-08	VY022798.D	06/24/2025	15:29
PARK AVE -5	Q2393-10	VY022799.D	06/24/2025	15:52
PARK AVE -6	Q2393-12	VY022800.D	06/24/2025	16:16

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: UNIO02
 Lab Code: CHEM Case No.: Q2393 SAS No.: Q2393 SDG NO.: Q2393
 Lab File ID: VY022785.D Date Analyzed: 06/24/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:20
 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	480569	7.71	788269	8.62	678315	11.41
UPPER LIMIT	961138	8.207	1576540	9.116	1356630	11.914
LOWER LIMIT	240285	7.207	394135	8.116	339158	10.914
EPA SAMPLE NO.						
PARK AVE -1	304407	7.71	544800	8.61	523860	11.41
PARK AVE -2	303546	7.71	553566	8.61	552957	11.41
PARK AVE -3	300789	7.70	557410	8.61	524757	11.41
PARK AVE -4	301973	7.70	544282	8.61	511623	11.41
PARK AVE -5	316843	7.71	576057	8.61	531349	11.41
PARK AVE -6	326857	7.70	591695	8.61	562315	11.41
VY0624SBL01	300507	7.71	535641	8.61	452693	11.41
VY0624SBS01	456381	7.70	765818	8.61	658494	11.41
VY0624SBSD01	454676	7.71	751533	8.61	644021	11.41

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: UNIO02
 Lab Code: CHEM Case No.: Q2393 SAS No.: Q2393 SDG NO.: Q2393
 Lab File ID: VY022785.D Date Analyzed: 06/24/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:20
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	340335	13.34				
UPPER LIMIT	680670	13.84				
LOWER LIMIT	170168	12.84				
EPA SAMPLE NO.						
PARK AVE -1	249712	13.34				
PARK AVE -2	278890	13.34				
PARK AVE -3	249630	13.34				
PARK AVE -4	231837	13.34				
PARK AVE -5	229194	13.34				
PARK AVE -6	253297	13.34				
VY0624SBL01	171409	13.34				
VY0624SBS01	311846	13.34				
VY0624SBSD01	303566	13.34				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	06/23/25	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	06/23/25	
Client Sample ID:	PARK AVE -1		SDG No.:	Q2393	
Lab Sample ID:	Q2393-02		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	81.9	
Sample Wt/Vol:	6.33	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022795.D	1		06/24/25 14:19	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.80	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.80	ug/Kg
75-01-4	Vinyl Chloride	0.76	U	0.76	4.80	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	4.80	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.80	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	4.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.96	U	0.96	4.80	ug/Kg
67-64-1	Acetone	4.60	U	4.60	24.1	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.70	U	0.70	4.80	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.80	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	9.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.83	U	0.83	4.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.77	U	0.77	4.80	ug/Kg
110-82-7	Cyclohexane	0.76	U	0.76	4.80	ug/Kg
78-93-3	2-Butanone	6.30	U	6.30	24.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.94	U	0.94	4.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.72	U	0.72	4.80	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.80	ug/Kg
67-66-3	Chloroform	0.81	U	0.81	4.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.90	U	0.90	4.80	ug/Kg
108-87-2	Methylcyclohexane	0.88	U	0.88	4.80	ug/Kg
71-43-2	Benzene	0.76	U	0.76	4.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.76	U	0.76	4.80	ug/Kg
79-01-6	Trichloroethene	0.78	U	0.78	4.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.88	U	0.88	4.80	ug/Kg
75-27-4	Bromodichloromethane	0.75	U	0.75	4.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	24.1	ug/Kg
108-88-3	Toluene	0.75	U	0.75	4.80	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -1	SDG No.:	Q2393
Lab Sample ID:	Q2393-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.9
Sample Wt/Vol:	6.33 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022795.D	1		06/24/25 14:19	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.63	U	0.63	4.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.60	U	0.60	4.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.89	U	0.89	4.80	ug/Kg
591-78-6	2-Hexanone	3.60	U	3.60	24.1	ug/Kg
124-48-1	Dibromochloromethane	0.84	U	0.84	4.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.85	U	0.85	4.80	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	4.80	ug/Kg
108-90-7	Chlorobenzene	0.88	U	0.88	4.80	ug/Kg
100-41-4	Ethyl Benzene	0.65	U	0.65	4.80	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.60	ug/Kg
95-47-6	o-Xylene	0.79	U	0.79	4.80	ug/Kg
100-42-5	Styrene	0.68	U	0.68	4.80	ug/Kg
75-25-2	Bromoform	0.83	U	0.83	4.80	ug/Kg
98-82-8	Isopropylbenzene	0.75	U	0.75	4.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	4.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	4.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.90	U	2.90	4.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.10	U	3.10	4.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.6		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	49.6		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.6		17 - 146	115%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	304000	7.707			
540-36-3	1,4-Difluorobenzene	545000	8.609			
3114-55-4	Chlorobenzene-d5	524000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	250000	13.34			

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	06/23/25	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	06/23/25	
Client Sample ID:	PARK AVE -1		SDG No.:	Q2393	
Lab Sample ID:	Q2393-02		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	81.9	
Sample Wt/Vol:	6.33	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022795.D	1		06/24/25 14:19	VY062425

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\VY062425\
 Data File : VY022795.D
 Acq On : 24 Jun 2025 14:19
 Operator : SY/MD
 Sample : Q2393-02
 Misc : 6.33g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -1

Quant Time: Jun 25 01:26:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	304407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	544800	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	523860	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	249712	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	165094	48.593	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.180%
35) Dibromofluoromethane	7.634	113	162370	49.007	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.020%
50) Toluene-d8	10.103	98	652469	49.628	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.260%
62) 4-Bromofluorobenzene	12.401	95	243354	57.579	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	115.160%

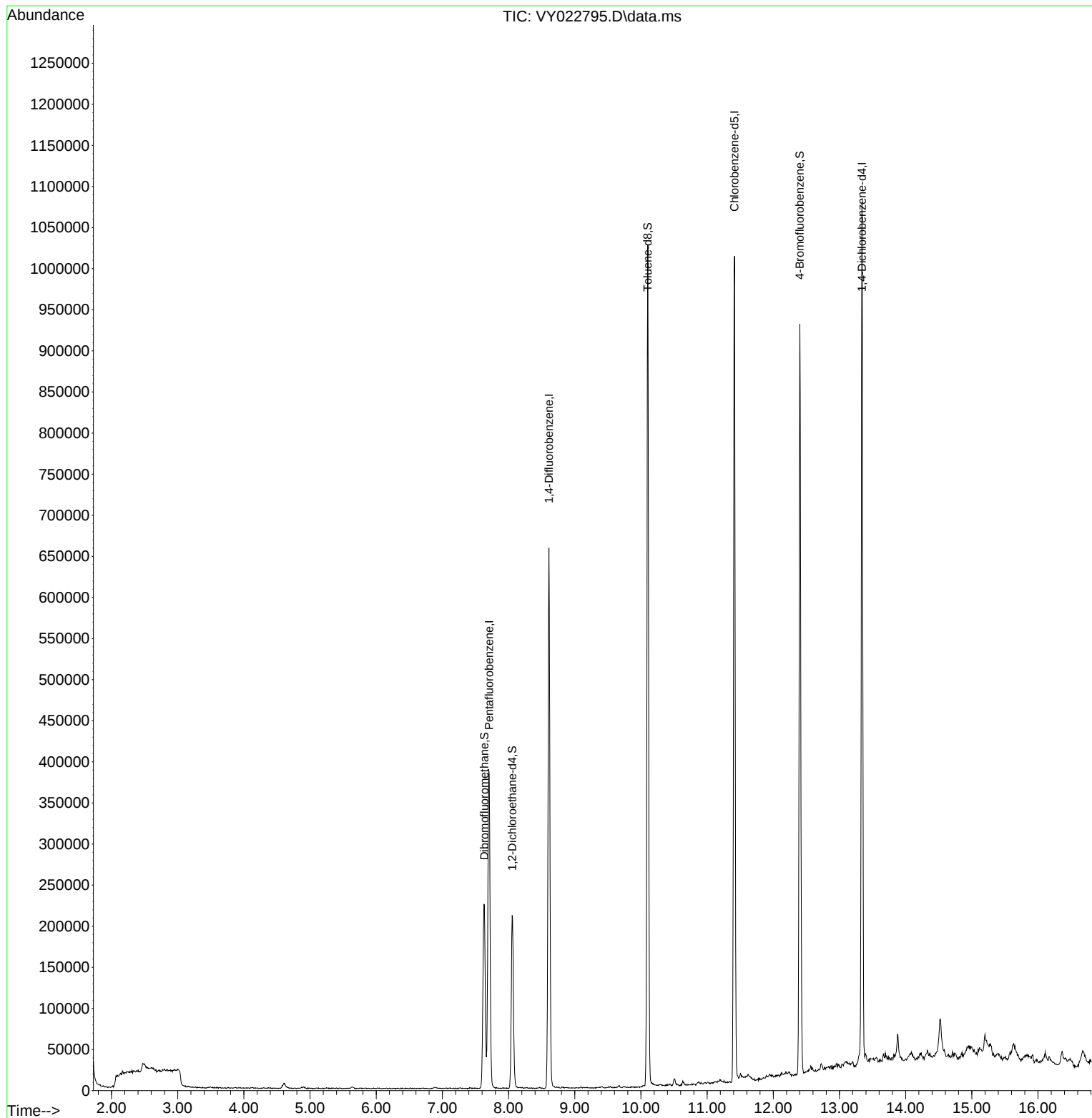
Target Compounds	Qvalue

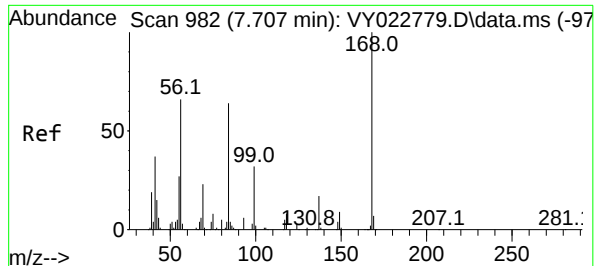
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022795.D
Acq On : 24 Jun 2025 14:19
Operator : SY/MD
Sample : Q2393-02
Misc : 6.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -1

Quant Time: Jun 25 01:26:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

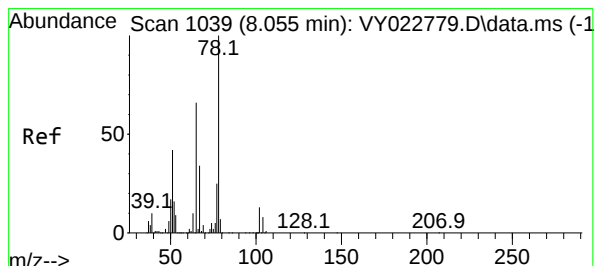
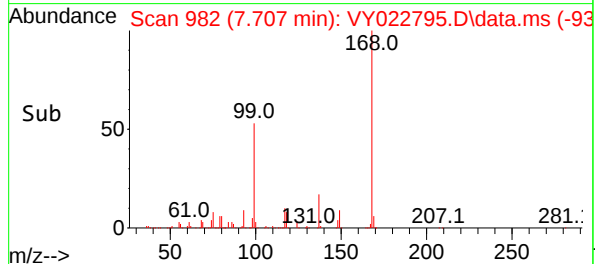
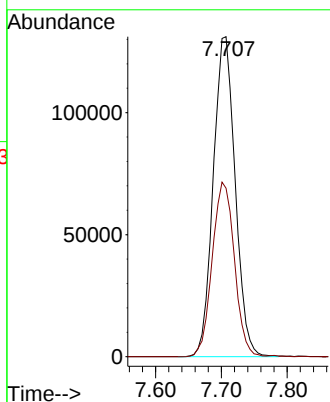
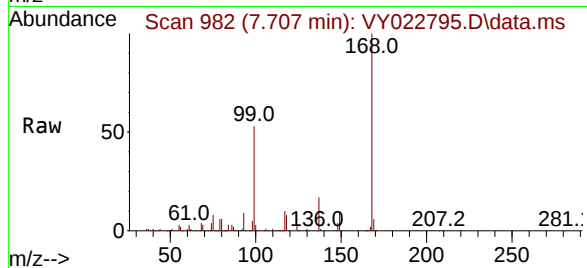




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.006 min
Lab File: VY022795.D
Acq: 24 Jun 2025 14:19

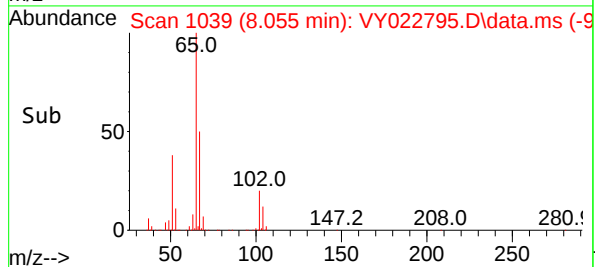
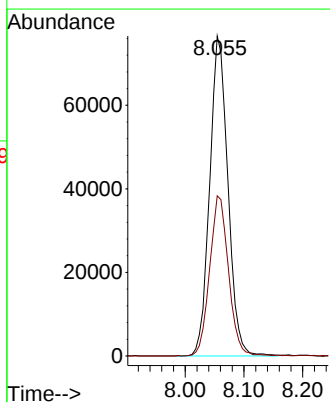
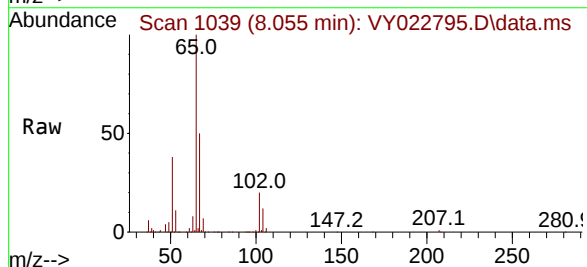
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -1

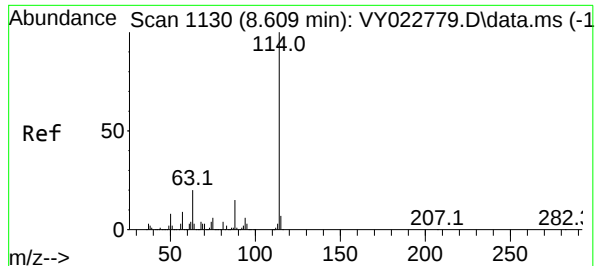
Tgt Ion:168 Resp: 304407
Ion Ratio Lower Upper
168 100
99 52.6 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 48.593 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.013 min
Lab File: VY022795.D
Acq: 24 Jun 2025 14:19

Tgt Ion: 65 Resp: 165094
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022795.D

Acq: 24 Jun 2025 14:19

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -1

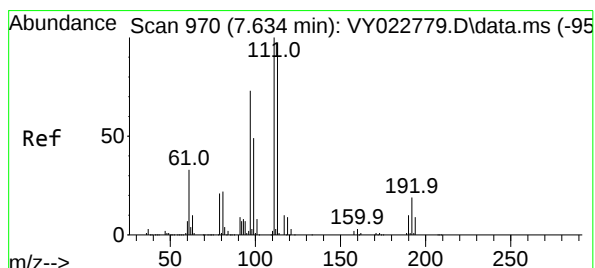
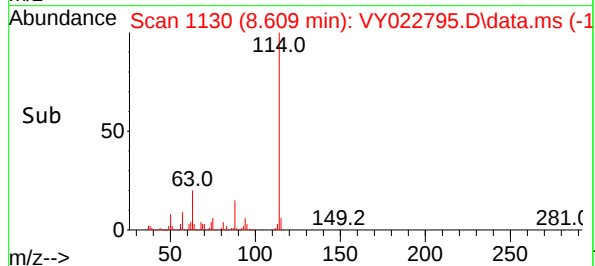
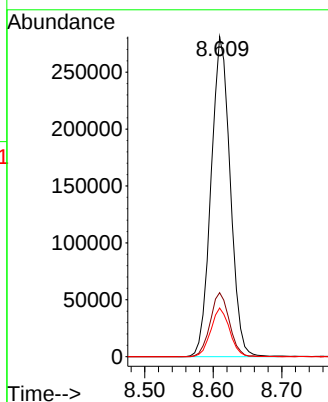
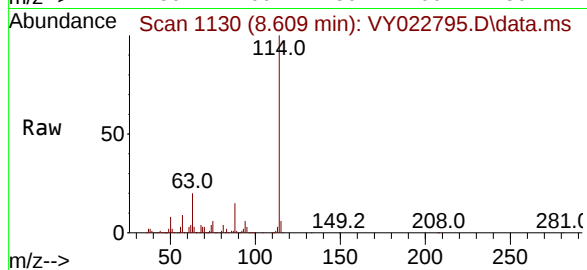
Tgt Ion:114 Resp: 544800

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.8

88 15.2 0.0 27.8



#35

Dibromofluoromethane

Concen: 49.007 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022795.D

Acq: 24 Jun 2025 14:19

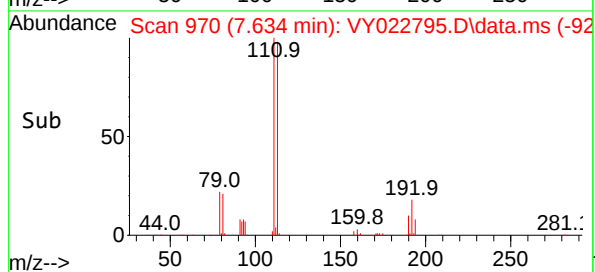
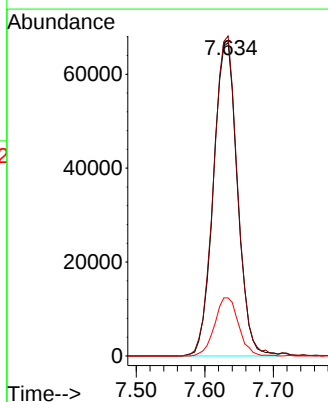
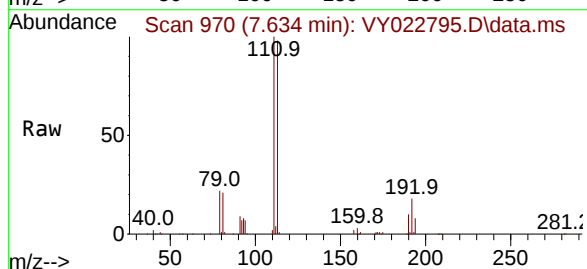
Tgt Ion:113 Resp: 162370

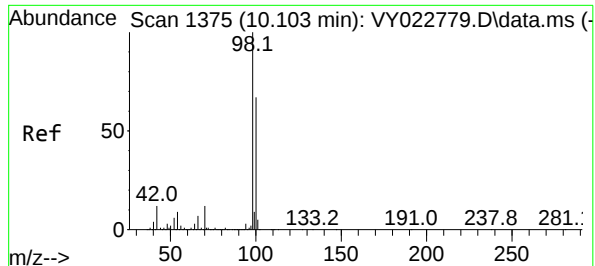
Ion Ratio Lower Upper

113 100

111 101.8 81.1 121.7

192 18.5 14.2 21.2





#50

Toluene-d8

Concen: 49.628 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022795.D

Acq: 24 Jun 2025 14:19

Instrument :

MSVOA_Y

ClientSampleId :

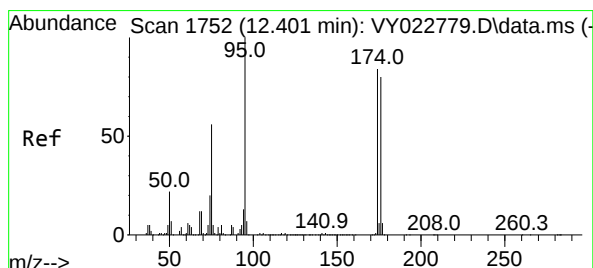
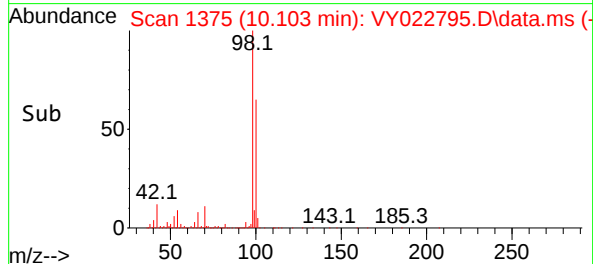
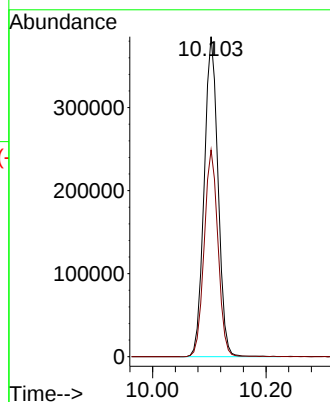
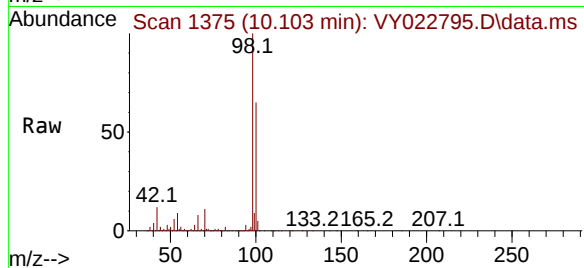
PARK AVE -1

Tgt Ion: 98 Resp: 652469

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 57.579 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022795.D

Acq: 24 Jun 2025 14:19

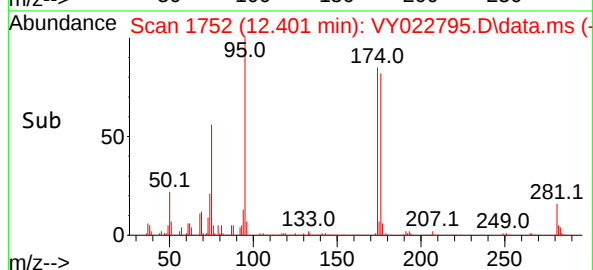
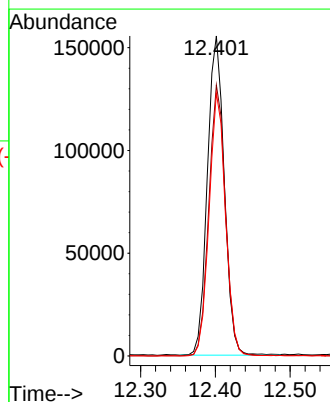
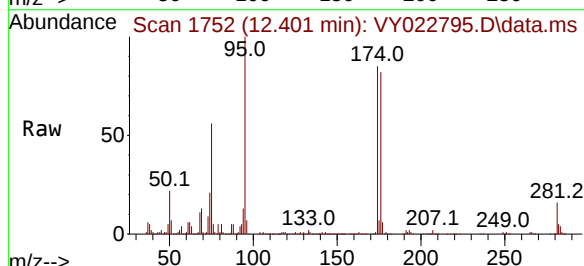
Tgt Ion: 95 Resp: 243354

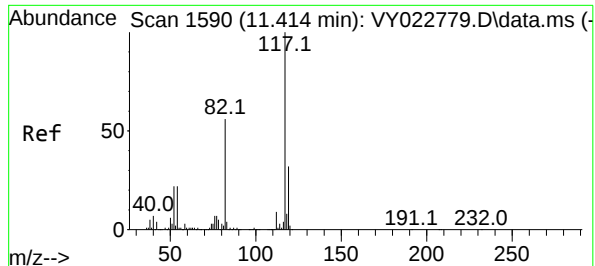
Ion Ratio Lower Upper

95 100

174 83.9 0.0 170.0

176 80.1 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY022795.D

Acq: 24 Jun 2025 14:19

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -1

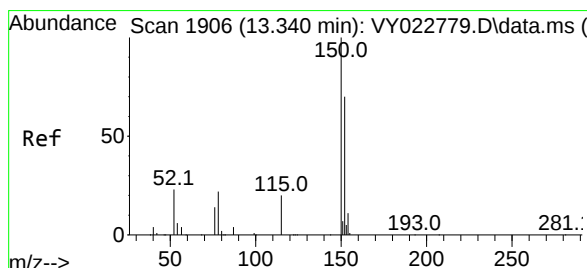
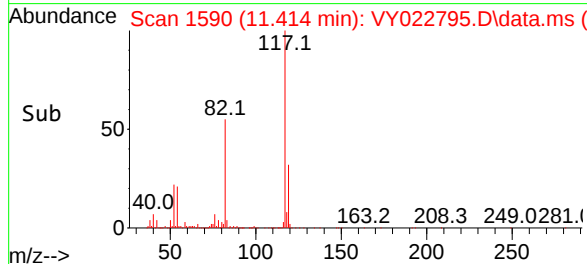
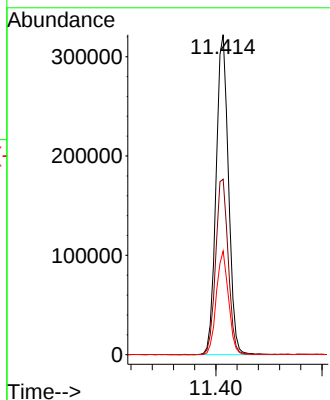
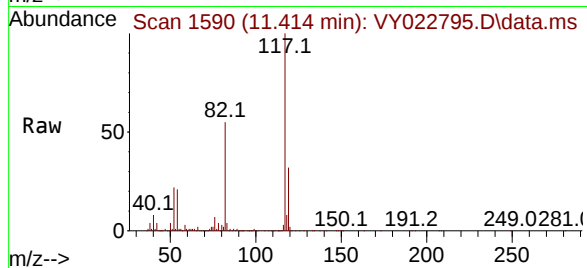
Tgt Ion:117 Resp: 523860

Ion Ratio Lower Upper

117 100

82 54.9 44.6 66.8

119 32.4 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY022795.D

Acq: 24 Jun 2025 14:19

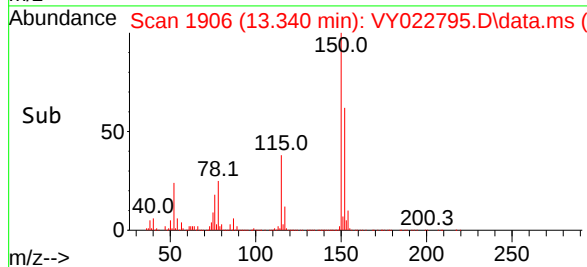
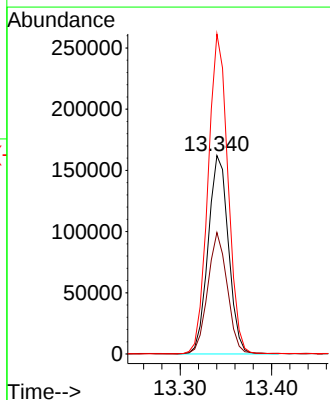
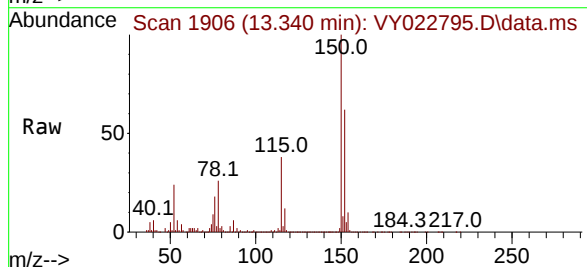
Tgt Ion:152 Resp: 249712

Ion Ratio Lower Upper

152 100

115 58.4 28.9 86.7

150 158.3 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022795.D
 Acq On : 24 Jun 2025 14:19
 Operator : SY/MD
 Sample : Q2393-02
 Misc : 6.33g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -1

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Title : SW846 8260

Signal : TIC: VY022795.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.068	51	57	58	rBV3	13683	19417	1.12%	0.195%
2	4.604	465	473	481	rBV6	6184	19469	1.12%	0.196%
3	7.628	956	969	975	rBV	224050	550378	31.72%	5.528%
4	7.701	975	981	997	rVB	387902	910778	52.49%	9.149%
5	8.055	1030	1039	1049	rBV	210479	471352	27.16%	4.735%
6	8.609	1119	1130	1142	rBV	657685	1278105	73.66%	12.838%
7	10.103	1368	1375	1384	rBV	1022855	1735215	100.00%	17.430%
8	10.511	1434	1442	1445	rBV3	8630	18365	1.06%	0.184%
9	11.414	1582	1590	1600	rBV	1005297	1662443	95.81%	16.699%
10	12.401	1745	1752	1761	rBV2	912980	1575699	90.81%	15.828%
11	13.340	1900	1906	1913	rVB	1039404	1557478	89.76%	15.645%
12	13.877	1991	1994	2001	rVB2	28567	49614	2.86%	0.498%
13	14.523	2096	2100	2109	rVB3	38752	88169	5.08%	0.886%
14	15.200	2208	2211	2214	rBV5	13711	18846	1.09%	0.189%

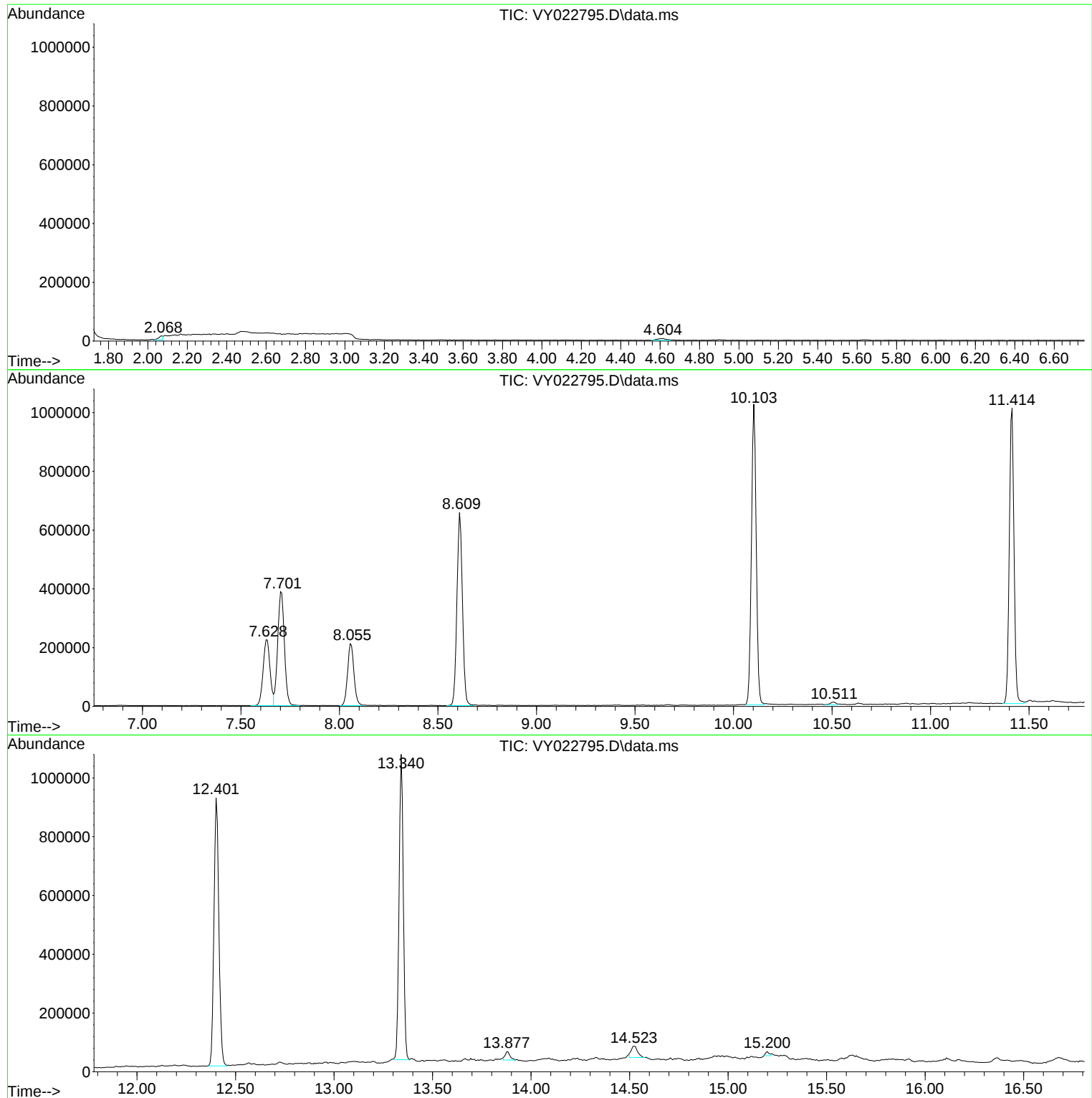
Sum of corrected areas: 9955328

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022795.D
Acq On : 24 Jun 2025 14:19
Operator : SY/MD
Sample : Q2393-02
Misc : 6.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -1

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022795.D
Acq On : 24 Jun 2025 14:19
Operator : SY/MD
Sample : Q2393-02
Misc : 6.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -1

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

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022795.D
Acq On : 24 Jun 2025 14:19
Operator : SY/MD
Sample : Q2393-02
Misc : 6.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -1

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

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

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

Client:	Union Paving & Construction Company		Date Collected:	06/23/25	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	06/23/25	
Client Sample ID:	PARK AVE -2		SDG No.:	Q2393	
Lab Sample ID:	Q2393-04		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	81.5	
Sample Wt/Vol:	8.44	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022796.D	1		06/24/25 14:42	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.83	U	0.83	3.60	ug/Kg
74-87-3	Chloromethane	0.83	U	0.83	3.60	ug/Kg
75-01-4	Vinyl Chloride	0.57	U	0.57	3.60	ug/Kg
74-83-9	Bromomethane	0.78	U	0.78	3.60	ug/Kg
75-00-3	Chloroethane	0.92	U	0.92	3.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.88	U	0.88	3.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.77	U	0.77	3.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.73	U	0.73	3.60	ug/Kg
67-64-1	Acetone	3.40	U	3.40	18.2	ug/Kg
75-15-0	Carbon Disulfide	0.77	U	0.77	3.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.53	U	0.53	3.60	ug/Kg
79-20-9	Methyl Acetate	1.10	U	1.10	3.60	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.63	U	0.63	3.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.58	U	0.58	3.60	ug/Kg
110-82-7	Cyclohexane	0.57	U	0.57	3.60	ug/Kg
78-93-3	2-Butanone	4.80	U	4.80	18.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.71	U	0.71	3.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.55	U	0.55	3.60	ug/Kg
74-97-5	Bromochloromethane	0.84	U	0.84	3.60	ug/Kg
67-66-3	Chloroform	0.61	U	0.61	3.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.68	U	0.68	3.60	ug/Kg
108-87-2	Methylcyclohexane	0.66	U	0.66	3.60	ug/Kg
71-43-2	Benzene	0.57	U	0.57	3.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.57	U	0.57	3.60	ug/Kg
79-01-6	Trichloroethene	0.59	U	0.59	3.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	3.60	ug/Kg
75-27-4	Bromodichloromethane	0.57	U	0.57	3.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.60	U	2.60	18.2	ug/Kg
108-88-3	Toluene	0.57	U	0.57	3.60	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -2	SDG No.:	Q2393
Lab Sample ID:	Q2393-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.5
Sample Wt/Vol:	8.44 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022796.D	1		06/24/25 14:42	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.47	U	0.47	3.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.45	U	0.45	3.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.67	U	0.67	3.60	ug/Kg
591-78-6	2-Hexanone	2.70	U	2.70	18.2	ug/Kg
124-48-1	Dibromochloromethane	0.63	U	0.63	3.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.64	U	0.64	3.60	ug/Kg
127-18-4	Tetrachloroethene	0.76	U	0.76	3.60	ug/Kg
108-90-7	Chlorobenzene	0.66	U	0.66	3.60	ug/Kg
100-41-4	Ethyl Benzene	0.49	U	0.49	3.60	ug/Kg
179601-23-1	m/p-Xylenes	0.90	U	0.90	7.30	ug/Kg
95-47-6	o-Xylene	0.60	U	0.60	3.60	ug/Kg
100-42-5	Styrene	0.52	U	0.52	3.60	ug/Kg
75-25-2	Bromoform	0.63	U	0.63	3.60	ug/Kg
98-82-8	Isopropylbenzene	0.57	U	0.57	3.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.88	U	0.88	3.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.20	U	1.20	3.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.10	U	1.10	3.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	3.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.20	U	2.20	3.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.30	U	2.30	3.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.8		63 - 155	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	50.0		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	61.1		17 - 146	122%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	304000	7.707			
540-36-3	1,4-Difluorobenzene	554000	8.609			
3114-55-4	Chlorobenzene-d5	553000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	279000	13.34			

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -2	SDG No.:	Q2393
Lab Sample ID:	Q2393-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.5
Sample Wt/Vol:	8.44 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022796.D	1		06/24/25 14:42	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022796.D
 Acq On : 24 Jun 2025 14:42
 Operator : SY/MD
 Sample : Q2393-04
 Misc : 8.44g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -2

Quant Time: Jun 25 01:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	303546	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	553566	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	552957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	278890	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	189174	55.838	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	111.680%
35) Dibromofluoromethane	7.628	113	175070	52.003	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	104.000%
50) Toluene-d8	10.103	98	667750	49.986	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.980%
62) 4-Bromofluorobenzene	12.401	95	262300	61.079	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	122.160%

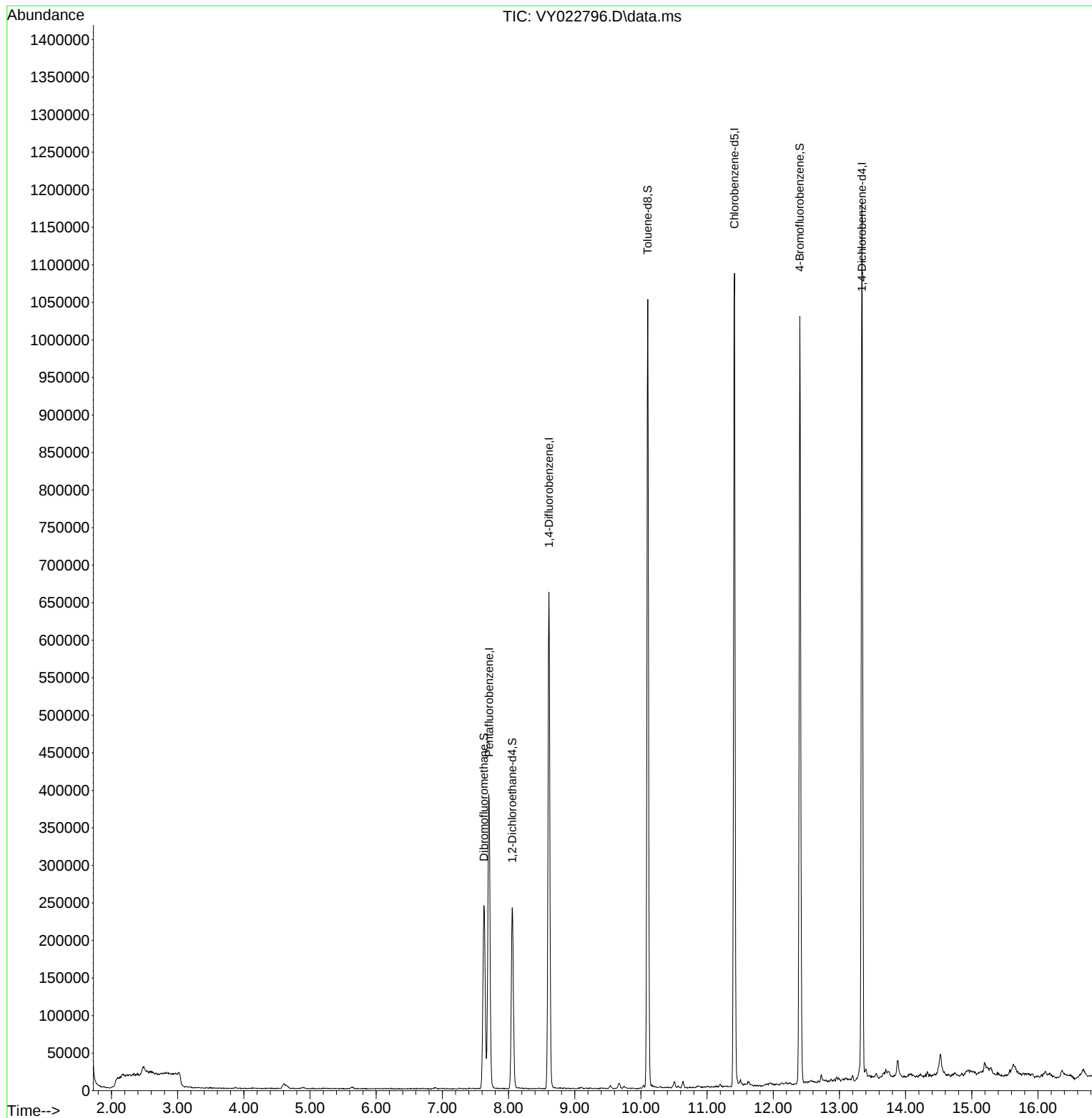
Target Compounds	Qvalue

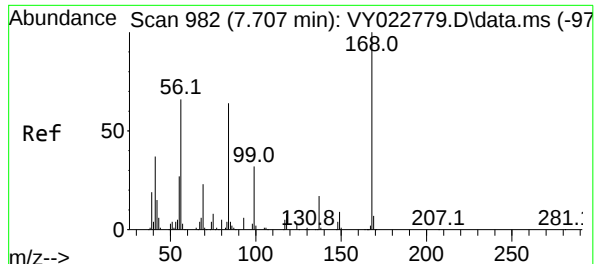
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022796.D
Acq On : 24 Jun 2025 14:42
Operator : SY/MD
Sample : Q2393-04
Misc : 8.44g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -2

Quant Time: Jun 25 01:26:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

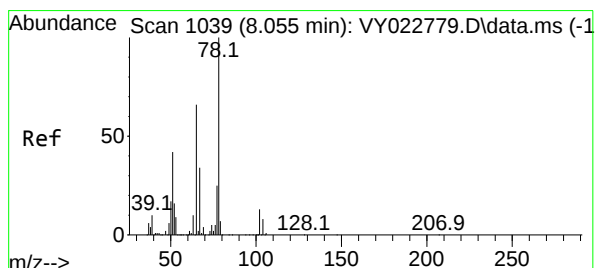
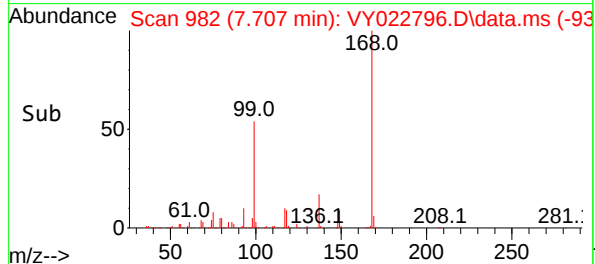
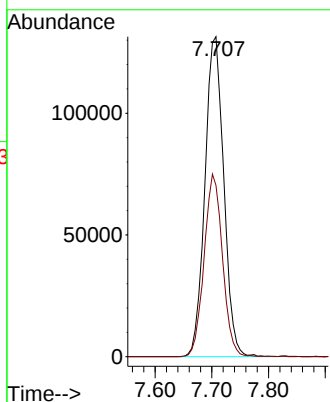
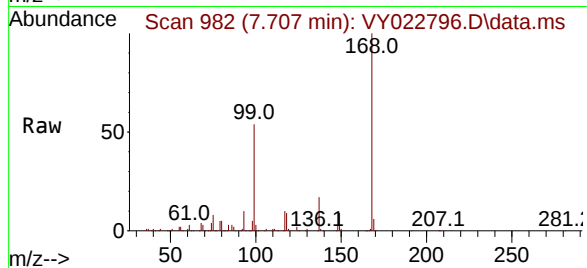




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.006 min
Lab File: VY022796.D
Acq: 24 Jun 2025 14:42

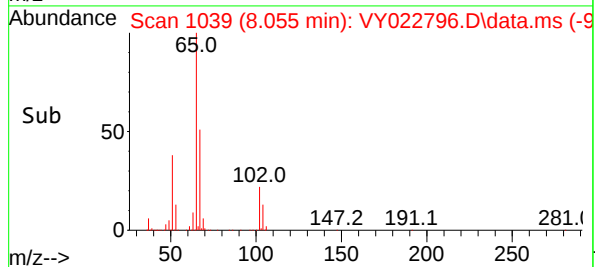
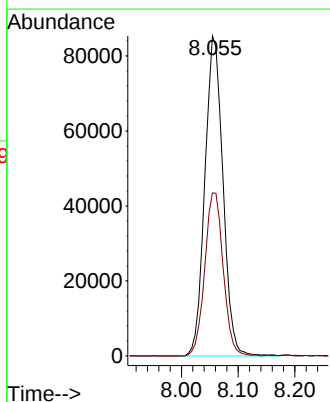
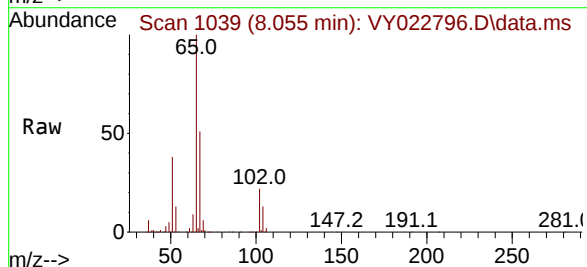
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -2

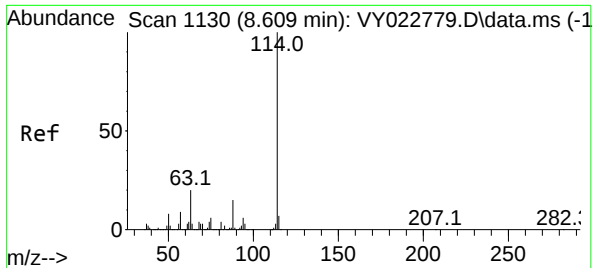
Tgt Ion:168 Resp: 303546
Ion Ratio Lower Upper
168 100
99 53.5 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 55.838 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.012 min
Lab File: VY022796.D
Acq: 24 Jun 2025 14:42

Tgt Ion: 65 Resp: 189174
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022796.D

Acq: 24 Jun 2025 14:42

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -2

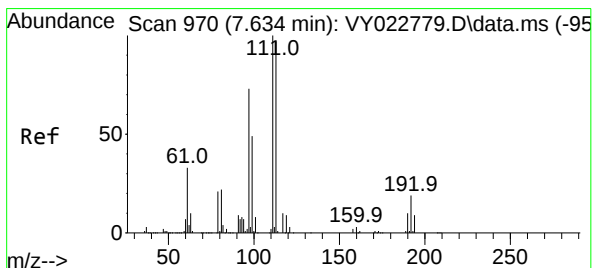
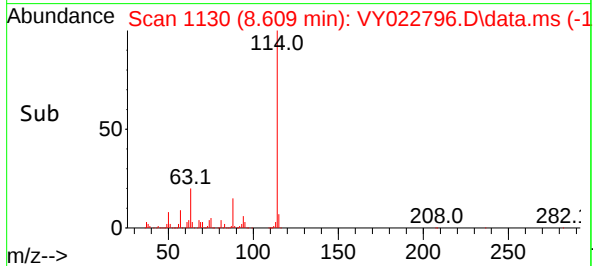
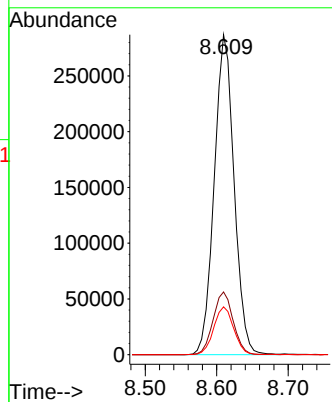
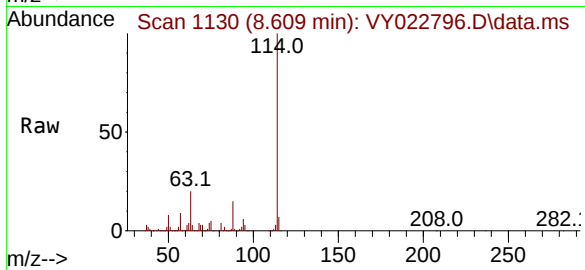
Tgt Ion:114 Resp: 553566

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.8

88 14.9 0.0 27.8



#35

Dibromofluoromethane

Concen: 52.003 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.012 min

Lab File: VY022796.D

Acq: 24 Jun 2025 14:42

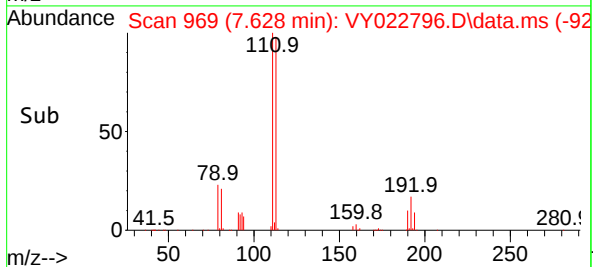
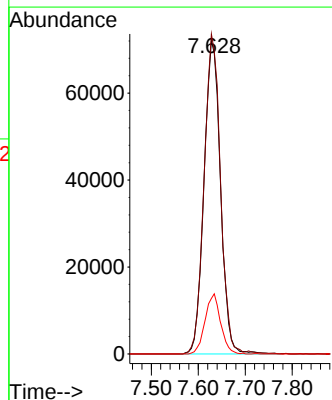
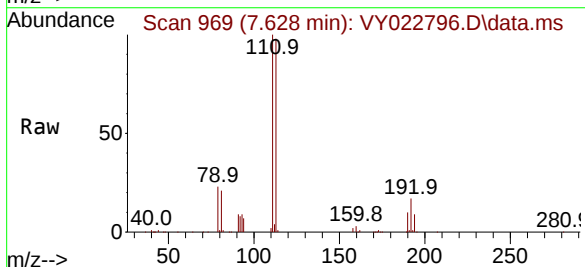
Tgt Ion:113 Resp: 175070

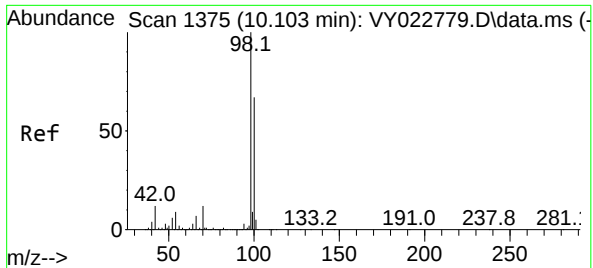
Ion Ratio Lower Upper

113 100

111 101.2 81.1 121.7

192 18.1 14.2 21.2

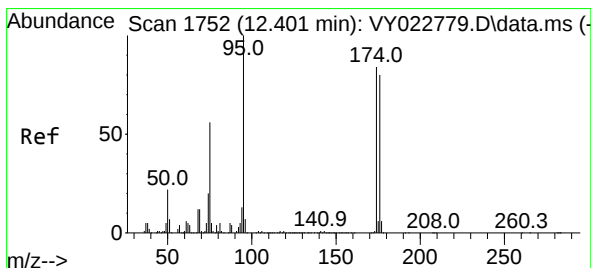
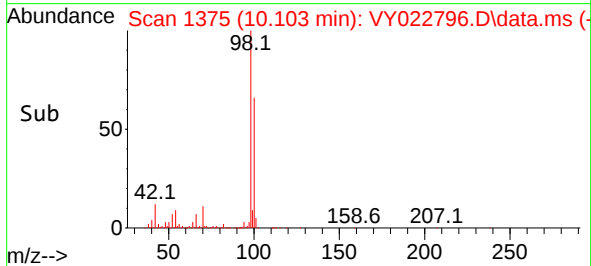
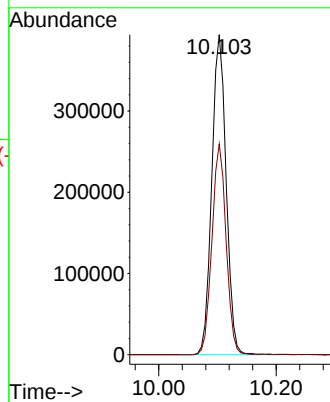
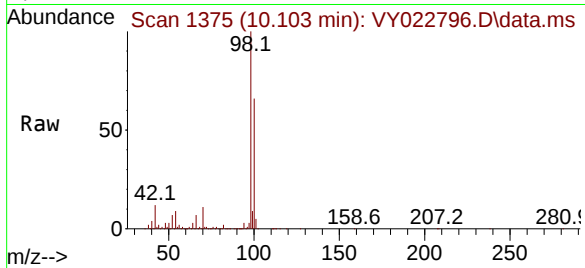




#50
Toluene-d8
Concen: 49.986 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022796.D
Acq: 24 Jun 2025 14:42

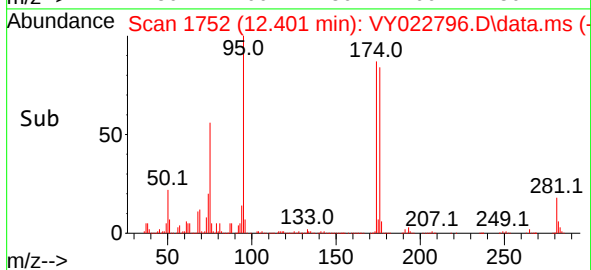
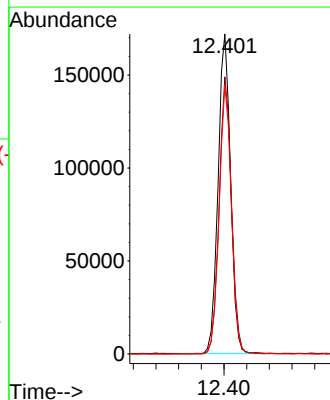
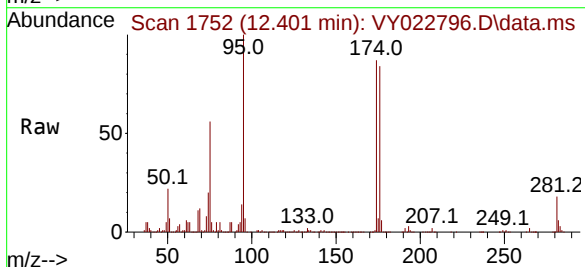
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -2

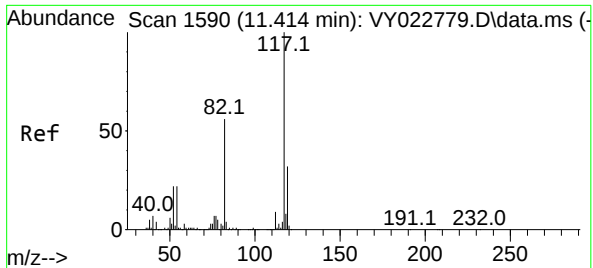
Tgt Ion: 98 Resp: 667750
Ion Ratio Lower Upper
98 100
100 65.0 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 61.079 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022796.D
Acq: 24 Jun 2025 14:42

Tgt Ion: 95 Resp: 262300
Ion Ratio Lower Upper
95 100
174 86.3 0.0 170.0
176 82.5 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022796.D

Acq: 24 Jun 2025 14:42

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -2

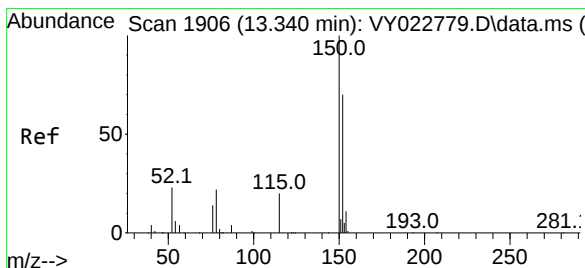
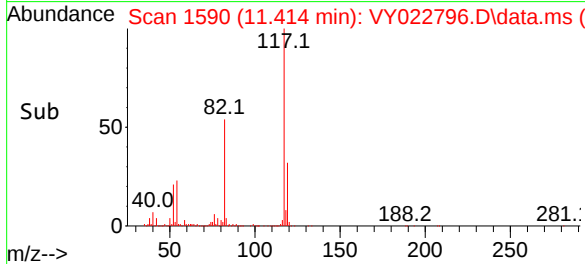
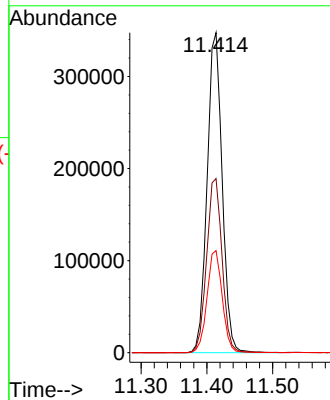
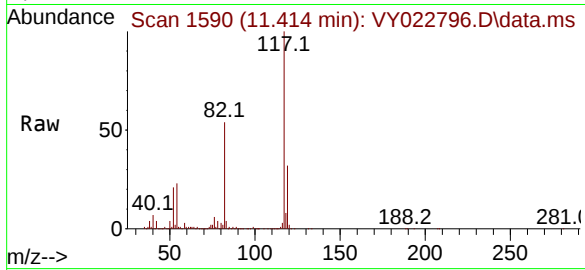
Tgt Ion:117 Resp: 552957

Ion Ratio Lower Upper

117 100

82 54.4 44.6 66.8

119 31.9 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY022796.D

Acq: 24 Jun 2025 14:42

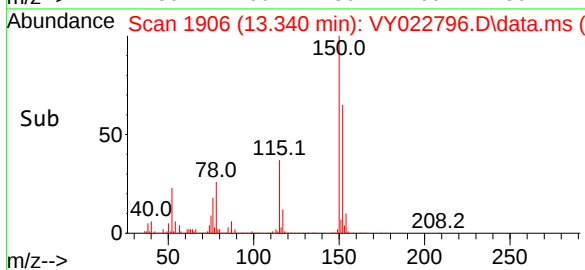
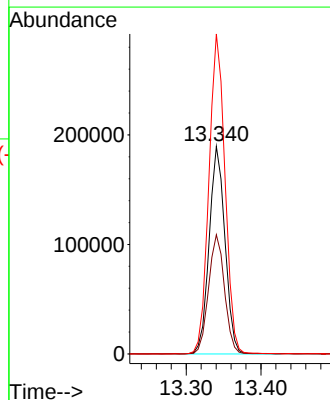
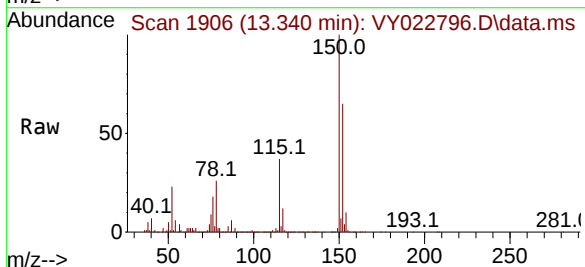
Tgt Ion:152 Resp: 278890

Ion Ratio Lower Upper

152 100

115 57.7 28.9 86.7

150 156.6 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022796.D
 Acq On : 24 Jun 2025 14:42
 Operator : SY/MD
 Sample : Q2393-04
 Misc : 8.44g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -2

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Title : SW846 8260

Signal : TIC: VY022796.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.092	50	61	64	rBV3	12401	38372	2.15%	0.362%
2	2.172	69	74	80	rVV10	5725	20170	1.13%	0.190%
3	7.628	959	969	975	rBV	243792	585580	32.86%	5.518%
4	7.701	975	981	992	rVB	390542	900381	50.52%	8.485%
5	8.055	1030	1039	1051	rBV	241522	542633	30.45%	5.113%
6	8.609	1120	1130	1144	rBV	662257	1302233	73.07%	12.271%
7	10.103	1367	1375	1383	rBV	1049674	1782231	100.00%	16.794%
8	11.414	1582	1590	1600	rBV	1083501	1761486	98.84%	16.599%
9	12.401	1743	1752	1761	rBV2	1023241	1750562	98.22%	16.496%
10	13.340	1895	1906	1912	rBV	1165136	1763490	98.95%	16.618%
11	13.877	1989	1994	2006	rVB2	22318	54144	3.04%	0.510%
12	14.523	2092	2100	2109	rBV4	25286	67090	3.76%	0.632%
13	15.194	2206	2210	2214	rBV5	12358	23323	1.31%	0.220%
14	16.364	2396	2402	2407	rBV9	8322	20371	1.14%	0.192%

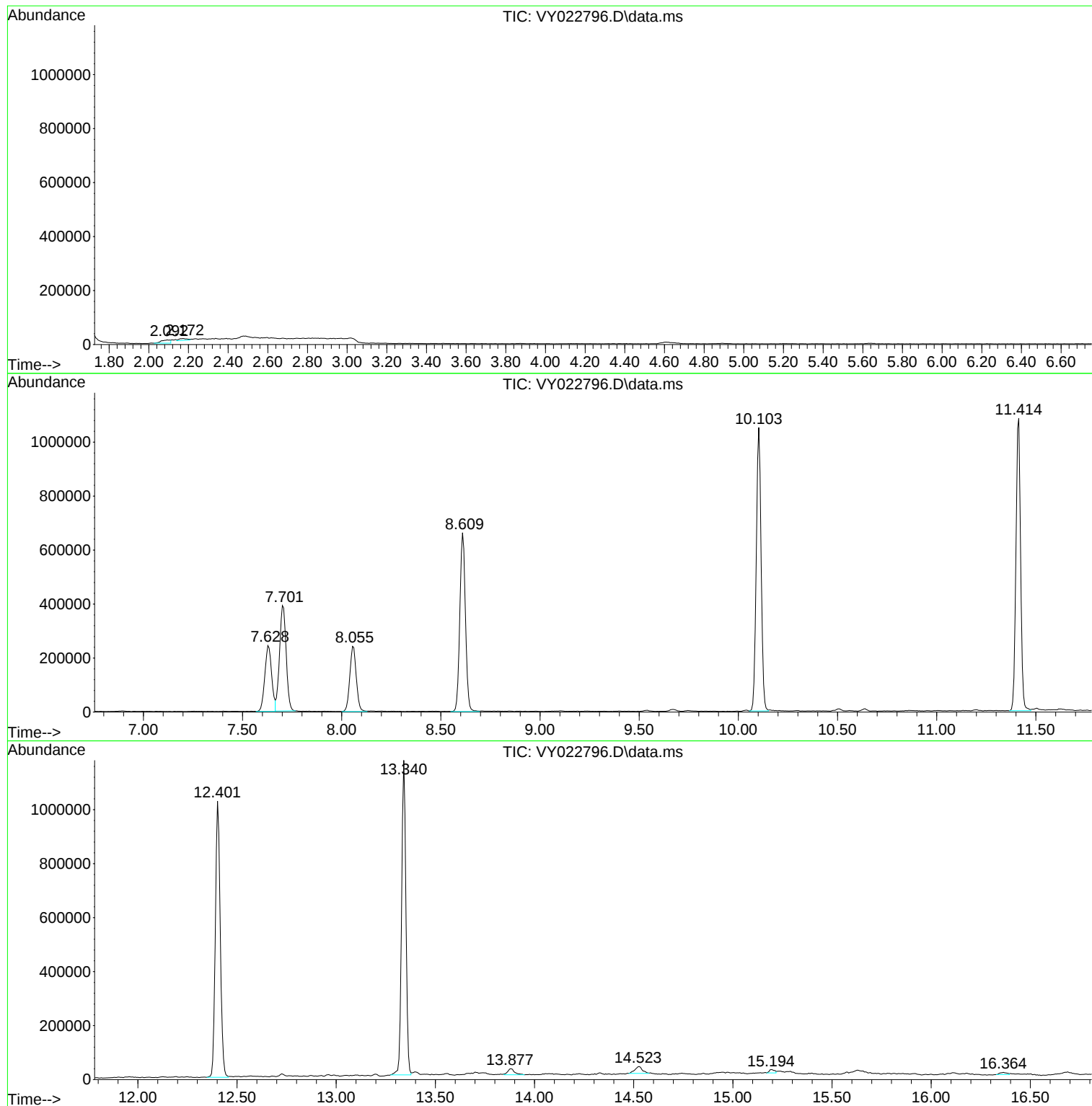
Sum of corrected areas: 10612066

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022796.D
Acq On : 24 Jun 2025 14:42
Operator : SY/MD
Sample : Q2393-04
Misc : 8.44g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -2

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022796.D
Acq On : 24 Jun 2025 14:42
Operator : SY/MD
Sample : Q2393-04
Misc : 8.44g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -2

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

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022796.D
Acq On : 24 Jun 2025 14:42
Operator : SY/MD
Sample : Q2393-04
Misc : 8.44g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -2

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

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

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

Client:	Union Paving & Construction Company		Date Collected:	06/23/25	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	06/23/25	
Client Sample ID:	PARK AVE -3		SDG No.:	Q2393	
Lab Sample ID:	Q2393-06		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	86.3	
Sample Wt/Vol:	6.74	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022797.D	1		06/24/25 15:06	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.98	U	0.98	4.30	ug/Kg
74-87-3	Chloromethane	0.98	U	0.98	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.68	U	0.68	4.30	ug/Kg
74-83-9	Bromomethane	0.92	U	0.92	4.30	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	7.20		1.00	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.91	U	0.91	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.86	U	0.86	4.30	ug/Kg
67-64-1	Acetone	61.6		4.10	21.5	ug/Kg
75-15-0	Carbon Disulfide	0.91	U	0.91	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	3.00	U	3.00	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.74	U	0.74	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.68	U	0.68	4.30	ug/Kg
78-93-3	2-Butanone	23.9		5.60	21.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.83	U	0.83	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.64	U	0.64	4.30	ug/Kg
74-97-5	Bromochloromethane	0.99	U	0.99	4.30	ug/Kg
67-66-3	Chloroform	0.72	U	0.72	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.78	U	0.78	4.30	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.68	U	0.68	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.78	U	0.78	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.67	U	0.67	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.5	ug/Kg
108-88-3	Toluene	0.67	U	0.67	4.30	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company			Date Collected:	06/23/25
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001			Date Received:	06/23/25
Client Sample ID:	PARK AVE -3			SDG No.:	Q2393
Lab Sample ID:	Q2393-06			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	86.3
Sample Wt/Vol:	6.74	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022797.D	1		06/24/25 15:06	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.5	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.90	U	0.90	4.30	ug/Kg
108-90-7	Chlorobenzene	0.78	U	0.78	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.60	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	4.30	ug/Kg
100-42-5	Styrene	0.61	U	0.61	4.30	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.70	U	2.70	4.30	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	48.8	63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3	70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	48.4	74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.5	17 - 146	113%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	301000	7.701
540-36-3	1,4-Difluorobenzene	557000	8.61
3114-55-4	Chlorobenzene-d5	525000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	250000	13.34

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	06/23/25	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	06/23/25	
Client Sample ID:	PARK AVE -3		SDG No.:	Q2393	
Lab Sample ID:	Q2393-06		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	86.3	
Sample Wt/Vol:	6.74	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022797.D	1		06/24/25 15:06	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
95-63-6	1,2,4-Trimethylbenzene	0.90	J		13.0	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022797.D
 Acq On : 24 Jun 2025 15:06
 Operator : SY/MD
 Sample : Q2393-06
 Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -3

Quant Time: Jun 25 01:26:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

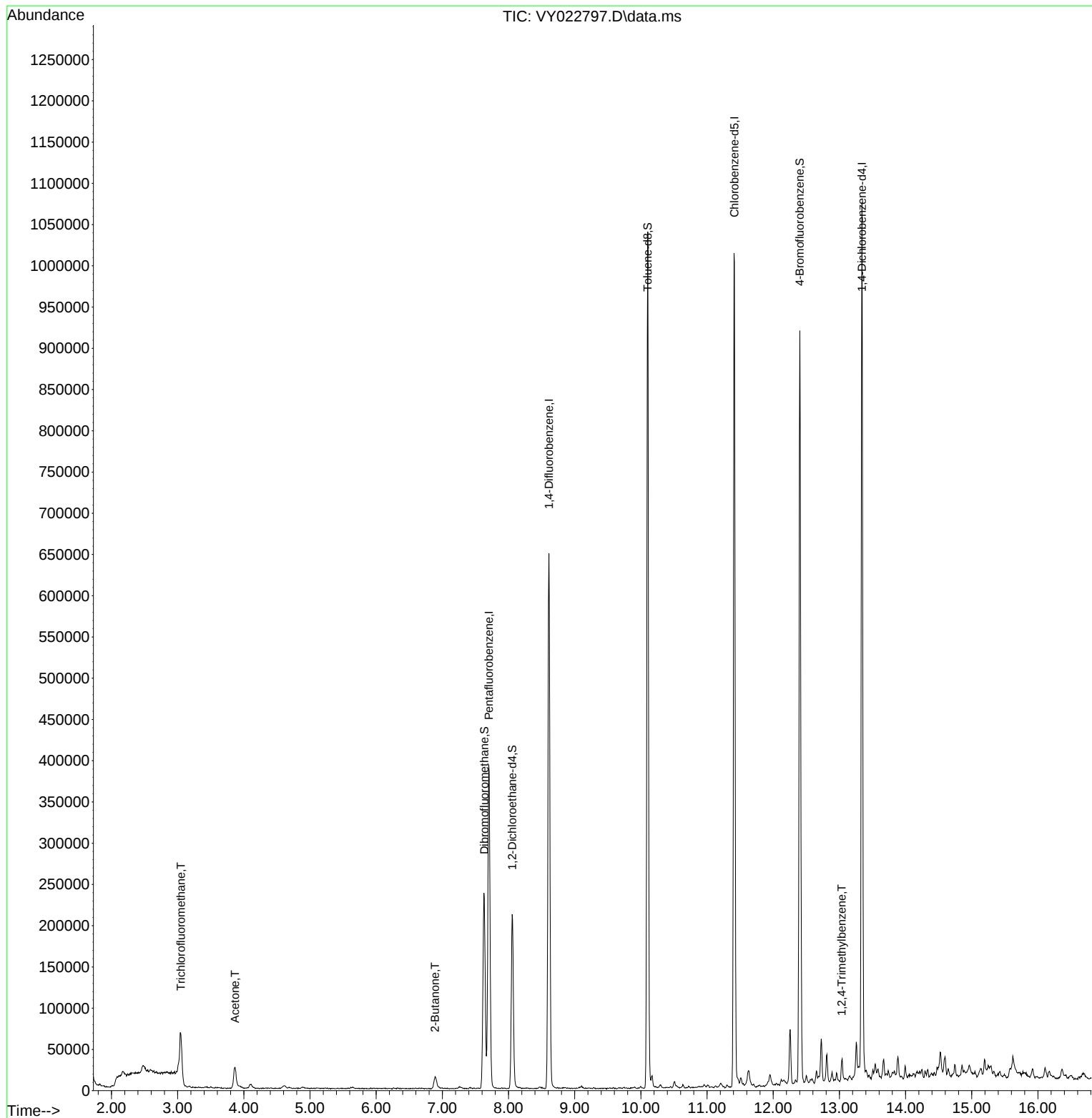
Internal Standards						
1) Pentafluorobenzene	7.701	168	300789	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.610	114	557410	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	524757	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	249630	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	163834	48.802	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.600%
35) Dibromofluoromethane	7.634	113	167237	49.334	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.660%
50) Toluene-d8	10.103	98	650647	48.370	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.740%
62) 4-Bromofluorobenzene	12.402	95	244323	56.501	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	113.000%
Target Compounds						Qvalue
7) Trichlorofluoromethane	3.050	101	57159	8.413	ug/l	95
16) Acetone	3.866	43	45449	71.627	ug/l	97
25) 2-Butanone	6.890	43	25712	27.842	ug/l	93
84) 1,2,4-Trimethylbenzene	13.036	105	15601	1.046	ug/l	93

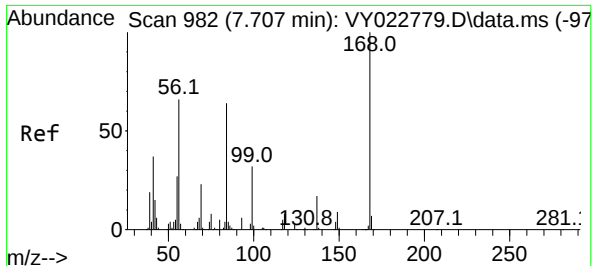
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022797.D
Acq On : 24 Jun 2025 15:06
Operator : SY/MD
Sample : Q2393-06
Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -3

Quant Time: Jun 25 01:26:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

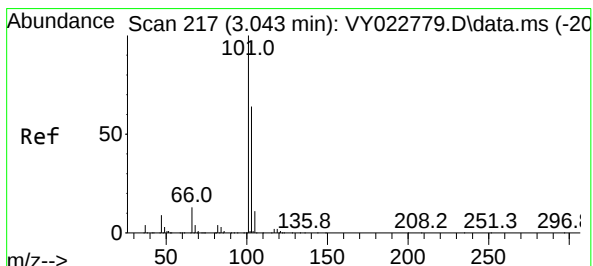
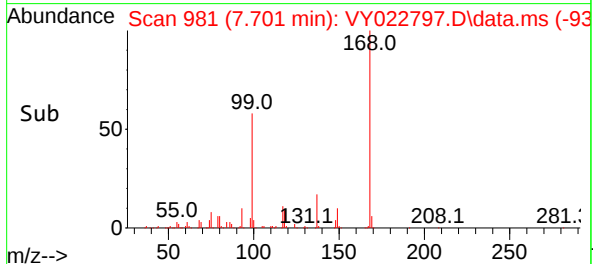
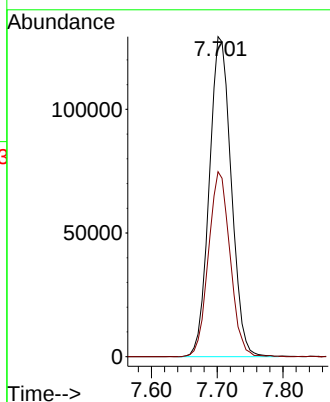
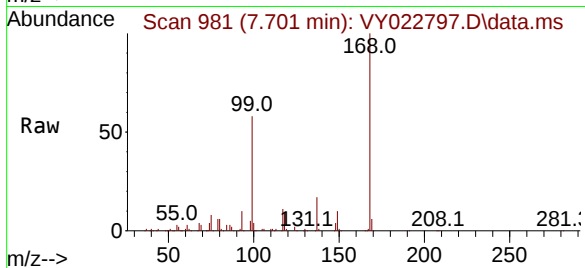




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.012 min
Lab File: VY022797.D
Acq: 24 Jun 2025 15:06

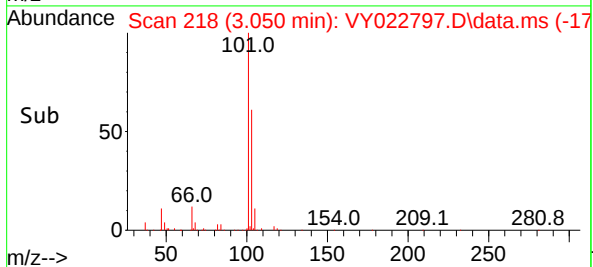
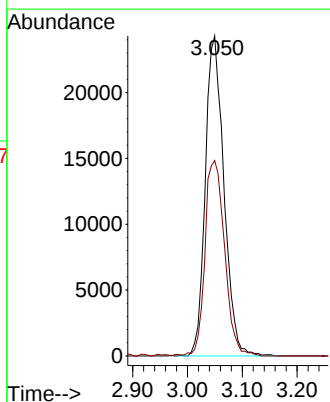
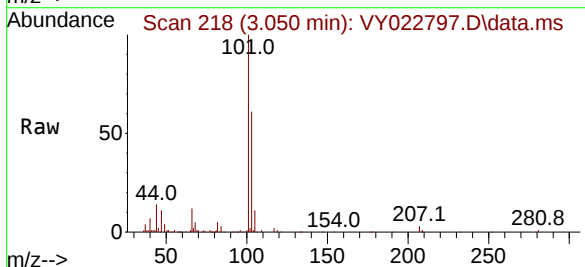
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -3

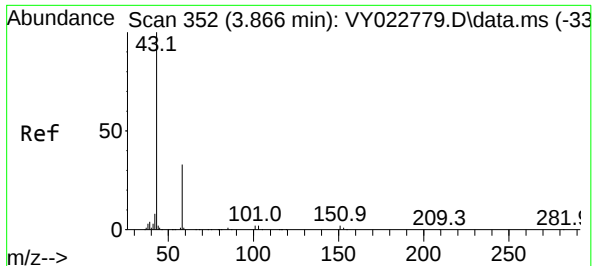
Tgt Ion:168 Resp: 300789
Ion Ratio Lower Upper
168 100
99 57.8 44.3 66.5



#7
Trichlorofluoromethane
Concen: 8.413 ug/l
RT: 3.050 min Scan# 218
Delta R.T. -0.006 min
Lab File: VY022797.D
Acq: 24 Jun 2025 15:06

Tgt Ion:101 Resp: 57159
Ion Ratio Lower Upper
101 100
103 61.0 52.2 78.2

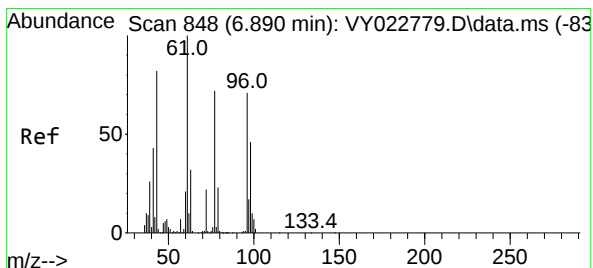
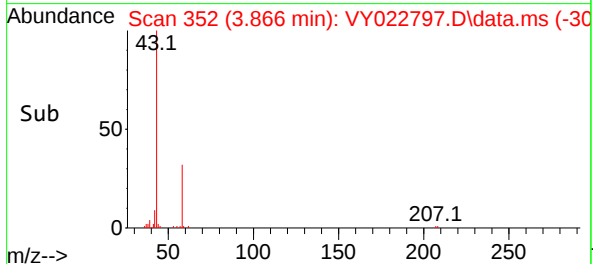
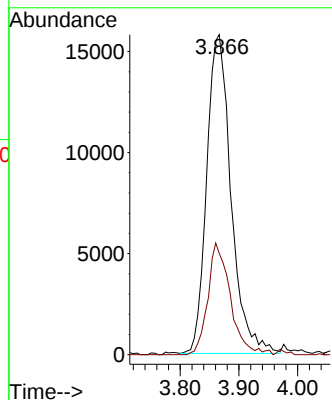
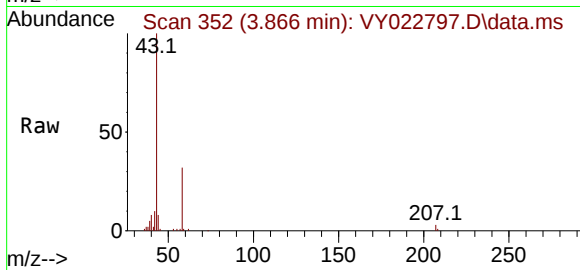




#16
Acetone
Concen: 71.627 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022797.D
Acq: 24 Jun 2025 15:06

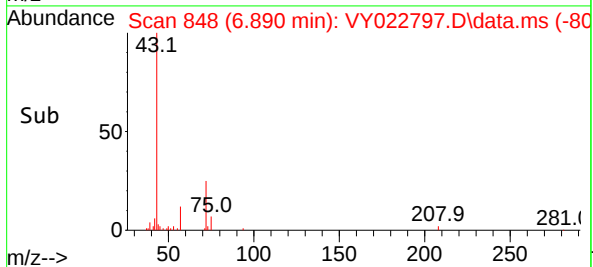
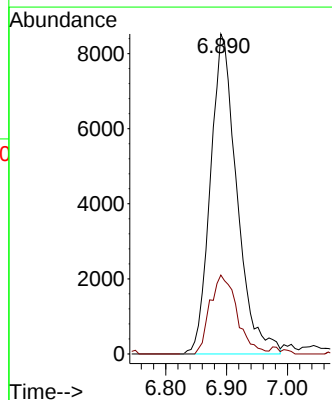
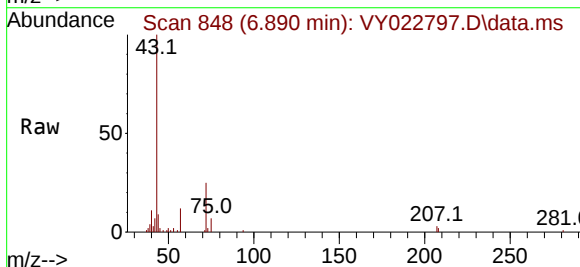
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -3

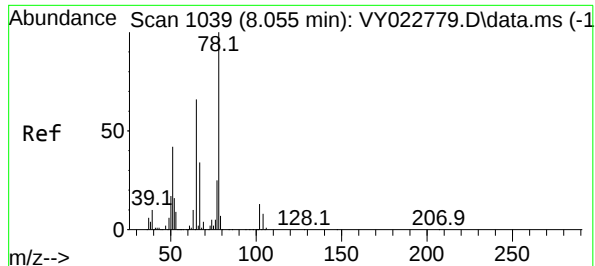
Tgt Ion: 43 Resp: 45449
Ion Ratio Lower Upper
43 100
58 31.4 24.0 36.0



#25
2-Butanone
Concen: 27.842 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY022797.D
Acq: 24 Jun 2025 15:06

Tgt Ion: 43 Resp: 25712
Ion Ratio Lower Upper
43 100
72 24.7 22.9 34.3





#33

1,2-Dichloroethane-d4

Concen: 48.802 ug/l

RT: 8.055 min Scan# 1039

Delta R.T. -0.012 min

Lab File: VY022797.D

Acq: 24 Jun 2025 15:06

Instrument :

MSVOA_Y

ClientSampleId :

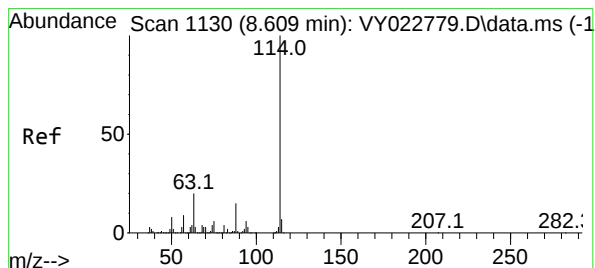
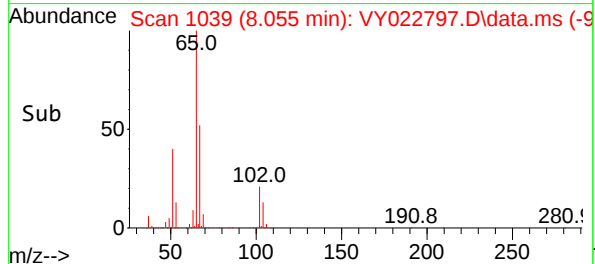
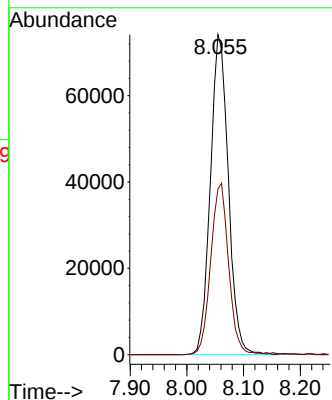
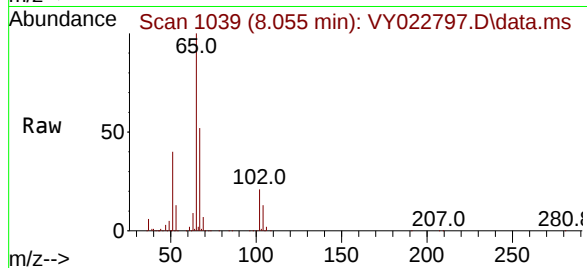
PARK AVE -3

Tgt Ion: 65 Resp: 163834

Ion Ratio Lower Upper

65 100

67 53.1 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022797.D

Acq: 24 Jun 2025 15:06

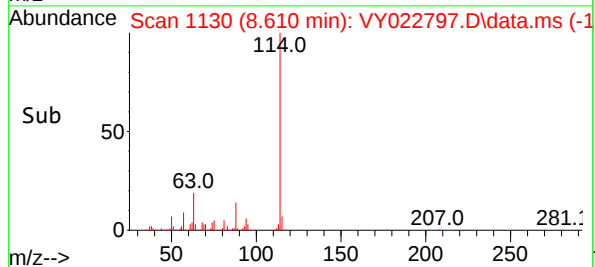
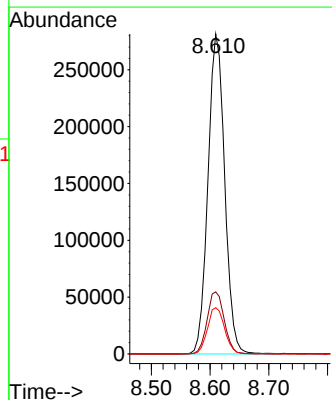
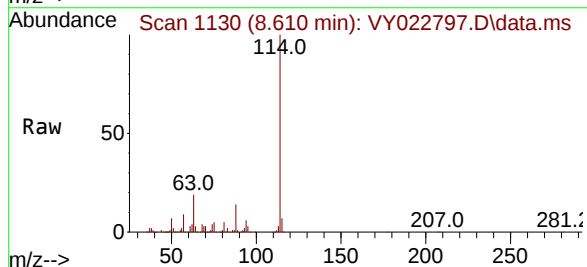
Tgt Ion: 114 Resp: 557410

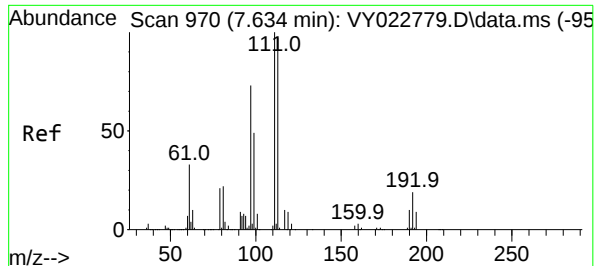
Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.8

88 14.5 0.0 27.8





#35

Dibromofluoromethane

Concen: 49.334 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY022797.D

Acq: 24 Jun 2025 15:06

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -3

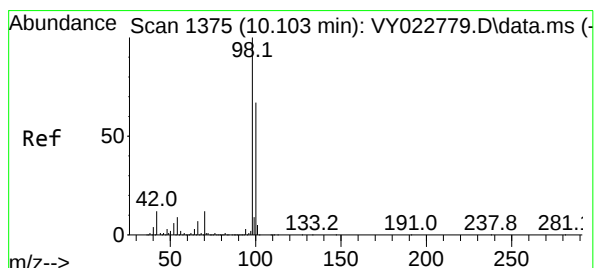
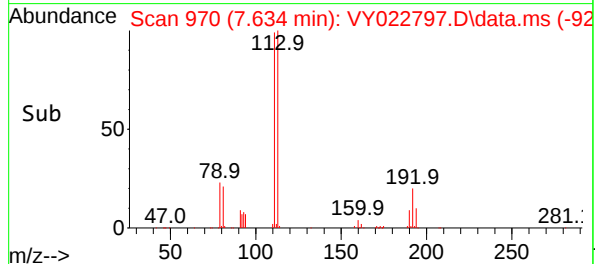
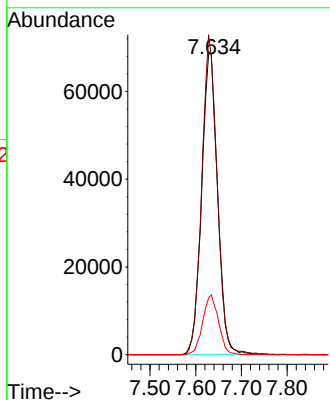
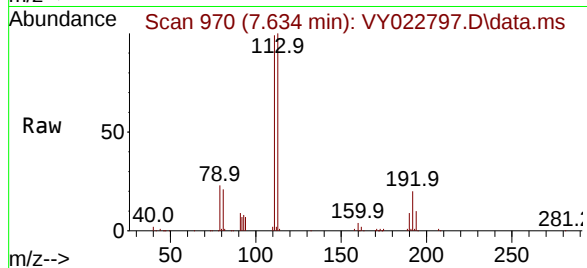
Tgt Ion:113 Resp: 167237

Ion Ratio Lower Upper

113 100

111 102.4 81.1 121.7

192 19.6 14.2 21.2



#50

Toluene-d8

Concen: 48.370 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022797.D

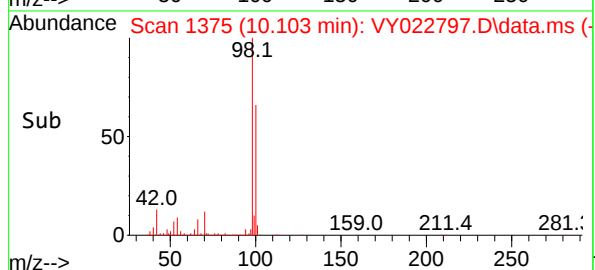
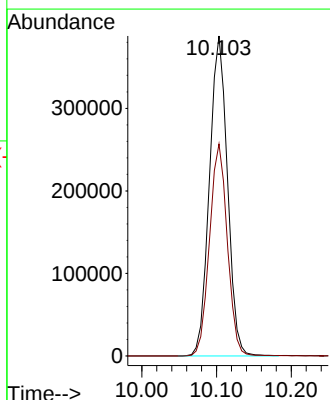
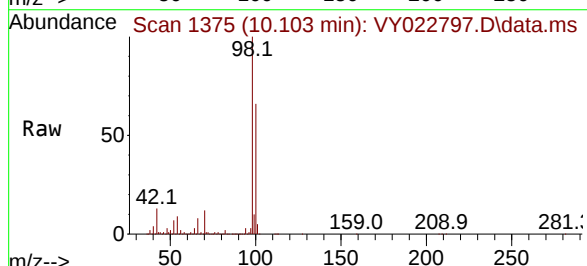
Acq: 24 Jun 2025 15:06

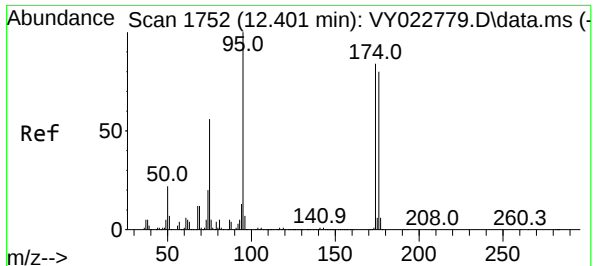
Tgt Ion: 98 Resp: 650647

Ion Ratio Lower Upper

98 100

100 65.5 51.4 77.0

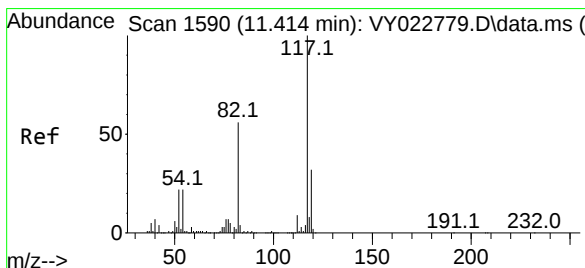
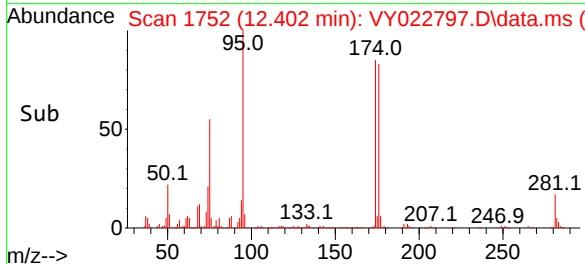
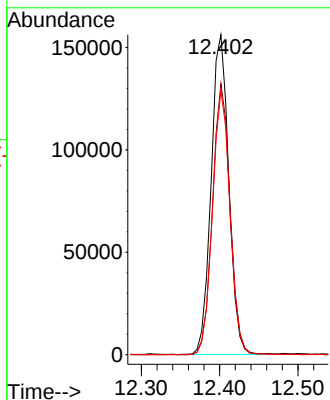
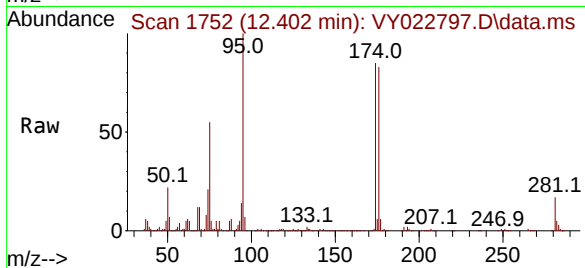




#62
4-Bromofluorobenzene
Concen: 56.501 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022797.D
Acq: 24 Jun 2025 15:06

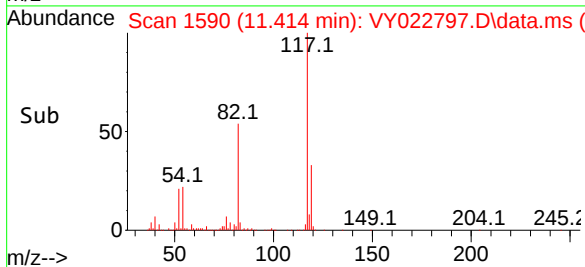
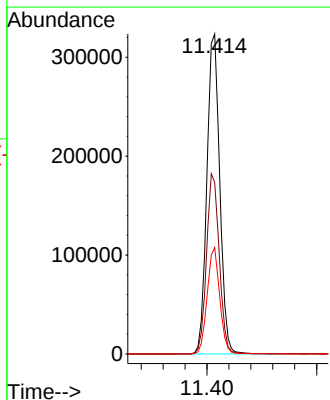
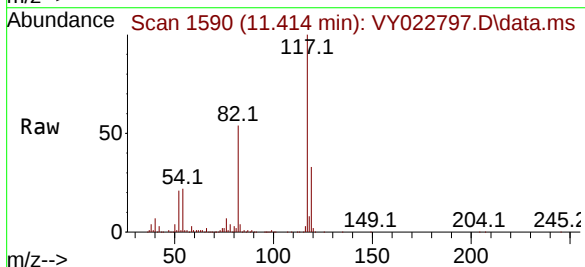
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -3

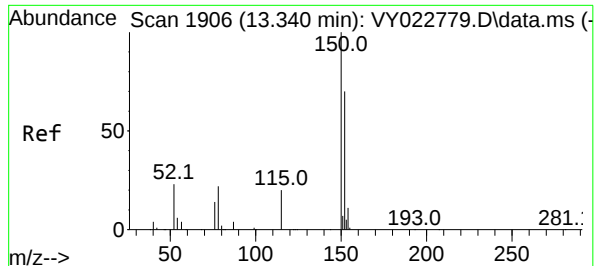
Tgt Ion: 95 Resp: 244323
Ion Ratio Lower Upper
95 100
174 84.6 0.0 170.0
176 81.9 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022797.D
Acq: 24 Jun 2025 15:06

Tgt Ion: 117 Resp: 524757
Ion Ratio Lower Upper
117 100
82 53.6 44.6 66.8
119 33.3 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY022797.D

Acq: 24 Jun 2025 15:06

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -3

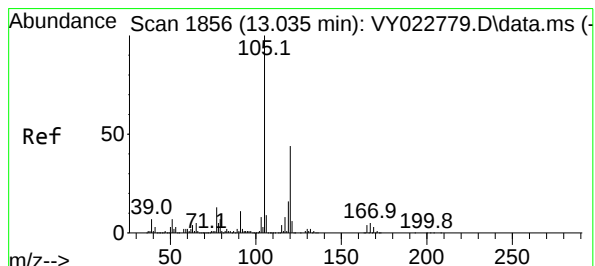
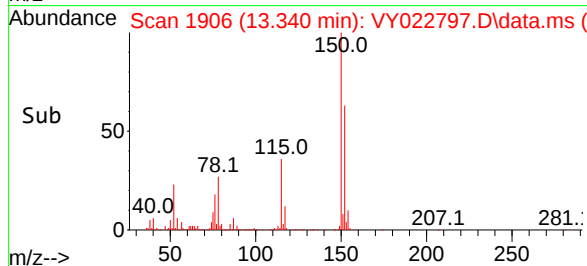
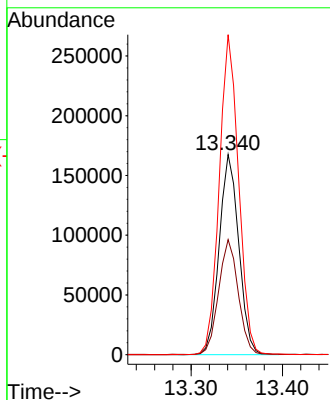
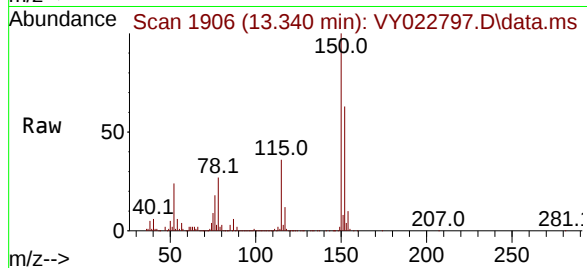
Tgt Ion:152 Resp: 249630

Ion Ratio Lower Upper

152 100

115 57.4 28.9 86.7

150 158.0 0.0 349.6



#84

1,2,4-Trimethylbenzene

Concen: 1.046 ug/l

RT: 13.036 min Scan# 1856

Delta R.T. -0.006 min

Lab File: VY022797.D

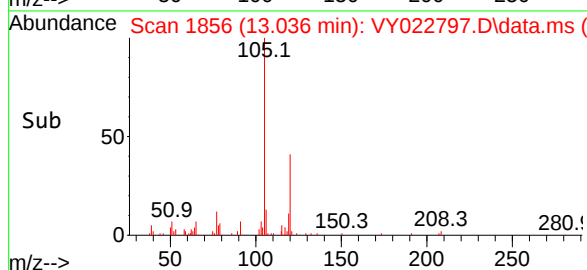
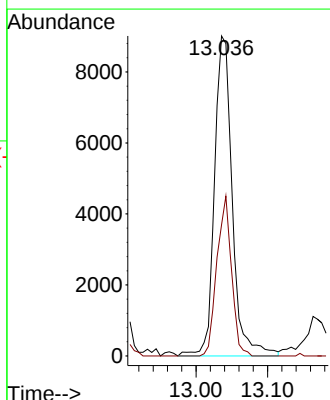
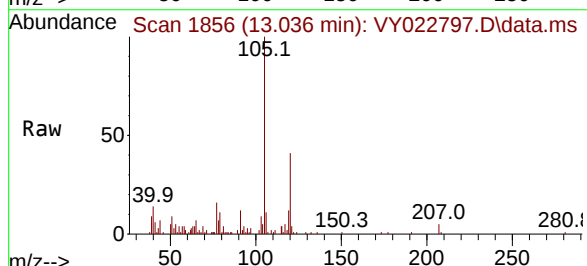
Acq: 24 Jun 2025 15:06

Tgt Ion:105 Resp: 15601

Ion Ratio Lower Upper

105 100

120 41.1 22.7 68.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022797.D
 Acq On : 24 Jun 2025 15:06
 Operator : SY/MD
 Sample : Q2393-06
 Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -3

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Signal : TIC: VY022797.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.086	51	60	61	rBV3	11158	23693	1.35%	0.213%
2	3.043	208	217	228	rVB3	64699	209518	11.93%	1.881%
3	3.866	342	352	360	rBV	25627	74978	4.27%	0.673%
4	6.890	838	848	858	rBV	15112	48070	2.74%	0.432%
5	7.628	959	969	975	rBV	236962	566261	32.23%	5.085%
6	7.701	975	981	995	rVB	392051	908246	51.70%	8.156%
7	8.055	1031	1039	1054	rBV	211331	477907	27.20%	4.292%
8	8.610	1119	1130	1147	rBV	648986	1299025	73.94%	11.665%
9	10.103	1366	1375	1383	rBV	1038558	1756924	100.00%	15.777%
10	10.170	1383	1386	1393	rVB2	13889	22614	1.29%	0.203%
11	10.506	1435	1441	1451	rBV3	7624	18667	1.06%	0.168%
12	11.408	1582	1589	1597	rBV	1010731	1664264	94.73%	14.945%
13	11.511	1602	1606	1611	rVV4	10089	20536	1.17%	0.184%
14	11.627	1614	1625	1635	rVV6	18056	51445	2.93%	0.462%
15	11.950	1674	1678	1687	rVB4	12584	27101	1.54%	0.243%
16	12.255	1720	1728	1735	rVB	65786	111738	6.36%	1.003%
17	12.402	1745	1752	1762	rVB2	911436	1572795	89.52%	14.124%
18	12.651	1788	1793	1796	rBV	15197	25234	1.44%	0.227%
19	12.725	1800	1805	1812	rVV3	53085	91325	5.20%	0.820%
20	12.810	1813	1819	1826	rVB2	33215	55795	3.18%	0.501%
21	13.042	1852	1857	1863	rBV2	26529	42869	2.44%	0.385%
22	13.255	1887	1892	1896	rBV	40348	64288	3.66%	0.577%
23	13.340	1900	1906	1914	rVB	1054298	1582028	90.05%	14.207%
24	13.542	1935	1939	1942	rVV	17123	28948	1.65%	0.260%
25	13.670	1954	1960	1963	rBV6	22729	39192	2.23%	0.352%
26	13.883	1991	1995	2001	rVB2	24684	41763	2.38%	0.375%
27	13.993	2009	2013	2019	rBV3	15706	23672	1.35%	0.213%
28	14.523	2096	2100	2106	rVV5	28495	58977	3.36%	0.530%
29	14.596	2107	2112	2116	rVV5	22932	44702	2.54%	0.401%
30	14.743	2133	2136	2141	rVB4	13470	19323	1.10%	0.174%
31	14.852	2150	2154	2157	rBV5	12067	17767	1.01%	0.160%
32	15.194	2206	2210	2215	rBV7	17513	29761	1.69%	0.267%
33	15.620	2276	2280	2293	rVB7	21916	57023	3.25%	0.512%
34	15.919	2326	2329	2335	rVB8	11348	19383	1.10%	0.174%
35	16.108	2356	2360	2366	rVB9	11370	20064	1.14%	0.180%
36	16.364	2397	2402	2407	rBV7	9656	19870	1.13%	0.178%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022797.D
Acq On : 24 Jun 2025 15:06
Operator : SY/MD
Sample : Q2393-06
Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -3

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Title : SW846 8260

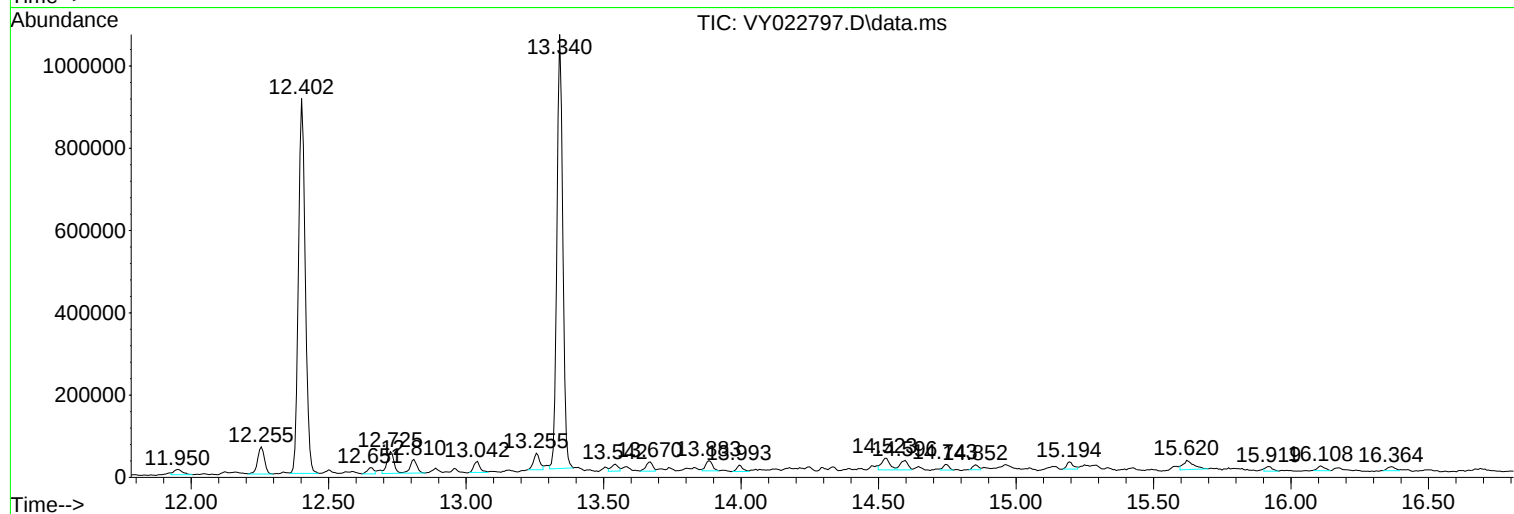
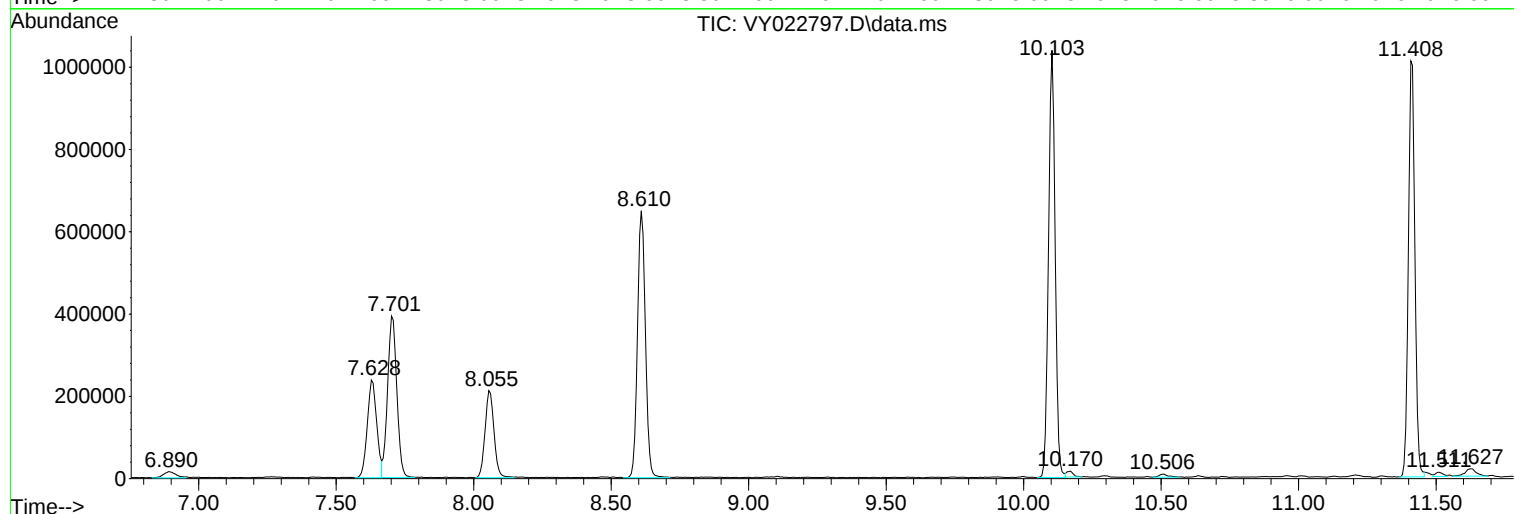
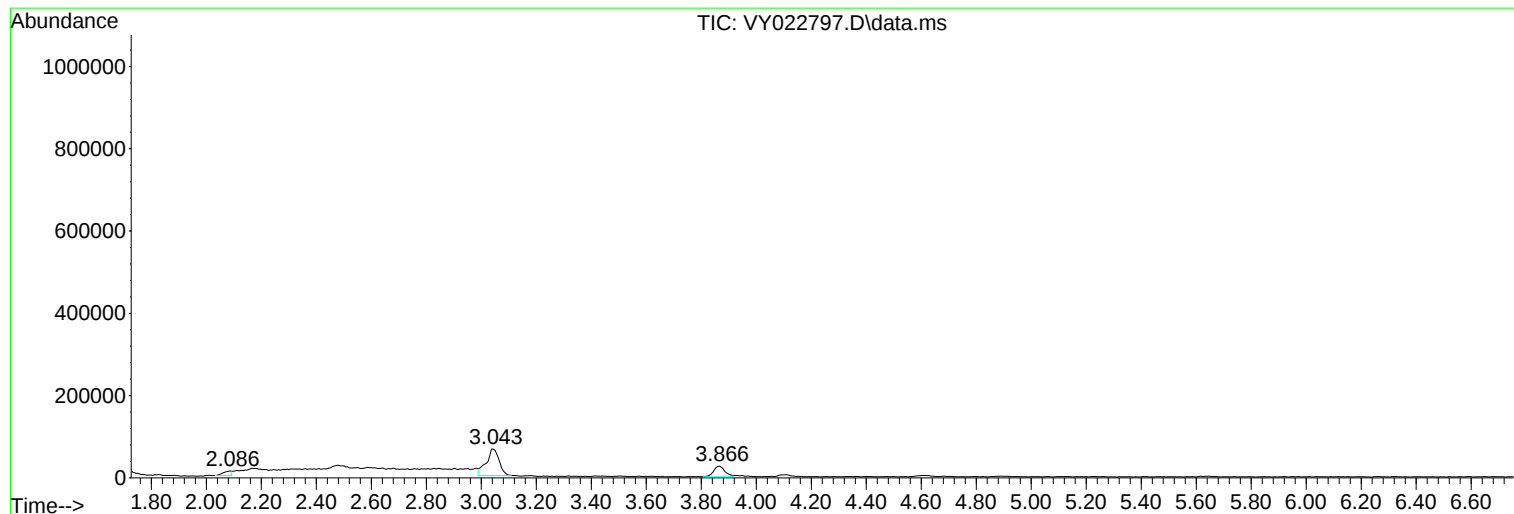
Sum of corrected areas: 11135766

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022797.D
Acq On : 24 Jun 2025 15:06
Operator : SY/MD
Sample : Q2393-06
Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -3

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022797.D
Acq On : 24 Jun 2025 15:06
Operator : SY/MD
Sample : Q2393-06
Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -3

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

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022797.D
Acq On : 24 Jun 2025 15:06
Operator : SY/MD
Sample : Q2393-06
Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -3

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

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

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

Client:	Union Paving & Construction Company		Date Collected:	06/23/25	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	06/23/25	
Client Sample ID:	PARK AVE -4		SDG No.:	Q2393	
Lab Sample ID:	Q2393-08		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	87.7	
Sample Wt/Vol:	8.42	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022798.D	1		06/24/25 15:29	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	3.40	ug/Kg
74-87-3	Chloromethane	0.77	U	0.77	3.40	ug/Kg
75-01-4	Vinyl Chloride	0.53	U	0.53	3.40	ug/Kg
74-83-9	Bromomethane	0.72	U	0.72	3.40	ug/Kg
75-00-3	Chloroethane	0.85	U	0.85	3.40	ug/Kg
75-69-4	Trichlorofluoromethane	4.30		0.82	3.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.72	U	0.72	3.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.68	U	0.68	3.40	ug/Kg
67-64-1	Acetone	83.6		3.20	16.9	ug/Kg
75-15-0	Carbon Disulfide	1.10	J	0.72	3.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.49	U	0.49	3.40	ug/Kg
79-20-9	Methyl Acetate	1.00	U	1.00	3.40	ug/Kg
75-09-2	Methylene Chloride	2.40	U	2.40	6.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.58	U	0.58	3.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.54	U	0.54	3.40	ug/Kg
110-82-7	Cyclohexane	0.53	U	0.53	3.40	ug/Kg
78-93-3	2-Butanone	49.3		4.40	16.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.66	U	0.66	3.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.51	U	0.51	3.40	ug/Kg
74-97-5	Bromochloromethane	0.78	U	0.78	3.40	ug/Kg
67-66-3	Chloroform	0.57	U	0.57	3.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	3.40	ug/Kg
108-87-2	Methylcyclohexane	0.62	U	0.62	3.40	ug/Kg
71-43-2	Benzene	0.53	U	0.53	3.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.53	U	0.53	3.40	ug/Kg
79-01-6	Trichloroethene	0.55	U	0.55	3.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.62	U	0.62	3.40	ug/Kg
75-27-4	Bromodichloromethane	0.53	U	0.53	3.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.40	U	2.40	16.9	ug/Kg
108-88-3	Toluene	0.53	U	0.53	3.40	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company			Date Collected:	06/23/25
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001			Date Received:	06/23/25
Client Sample ID:	PARK AVE -4			SDG No.:	Q2393
Lab Sample ID:	Q2393-08			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	87.7
Sample Wt/Vol:	8.42	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022798.D	1		06/24/25 15:29	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.44	U	0.44	3.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.42	U	0.42	3.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.62	U	0.62	3.40	ug/Kg
591-78-6	2-Hexanone	2.50	U	2.50	16.9	ug/Kg
124-48-1	Dibromochloromethane	0.59	U	0.59	3.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.60	U	0.60	3.40	ug/Kg
127-18-4	Tetrachloroethene	0.71	U	0.71	3.40	ug/Kg
108-90-7	Chlorobenzene	0.62	U	0.62	3.40	ug/Kg
100-41-4	Ethyl Benzene	0.45	U	0.45	3.40	ug/Kg
179601-23-1	m/p-Xylenes	0.84	U	0.84	6.80	ug/Kg
95-47-6	o-Xylene	0.56	U	0.56	3.40	ug/Kg
100-42-5	Styrene	0.48	U	0.48	3.40	ug/Kg
75-25-2	Bromoform	0.58	U	0.58	3.40	ug/Kg
98-82-8	Isopropylbenzene	0.53	U	0.53	3.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.82	U	0.82	3.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.20	U	1.20	3.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.10	U	1.10	3.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.98	U	0.98	3.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.20	U	1.20	3.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.00	U	2.00	3.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.20	U	2.20	3.40	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	48.2	63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7	70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	49.5	74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.2	17 - 146	110%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	302000	7.701
540-36-3	1,4-Difluorobenzene	544000	8.609
3114-55-4	Chlorobenzene-d5	512000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	232000	13.34

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -4	SDG No.:	Q2393
Lab Sample ID:	Q2393-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.7
Sample Wt/Vol:	8.42 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022798.D	1		06/24/25 15:29	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
95-63-6	1,2,4-Trimethylbenzene	0.79	J		13.0	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022798.D
 Acq On : 24 Jun 2025 15:29
 Operator : SY/MD
 Sample : Q2393-08
 Misc : 8.42g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -4

Quant Time: Jun 25 01:27:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

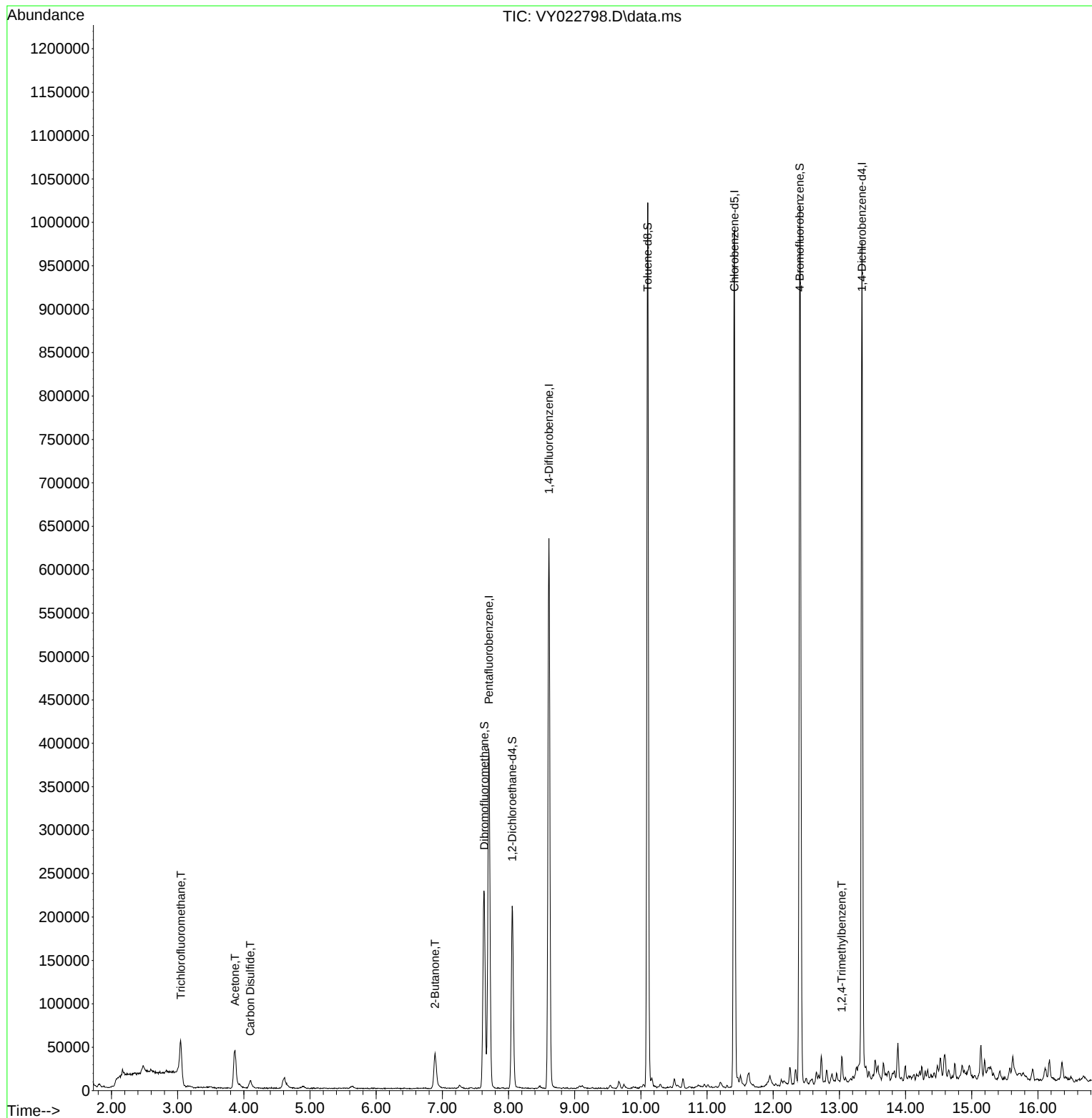
Internal Standards						
1) Pentafluorobenzene	7.701	168	301973	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.609	114	544282	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	511623	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	231837	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	162465	48.205	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	96.400%
35) Dibromofluoromethane	7.634	113	161346	48.744	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.480%
50) Toluene-d8	10.103	98	650744	49.544	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.080%
62) 4-Bromofluorobenzene	12.401	95	233038	55.191	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	110.380%
Target Compounds						Qvalue
7) Trichlorofluoromethane	3.049	101	42970	6.300	ug/l	90
16) Acetone	3.866	43	78672	123.501	ug/l	98
17) Carbon Disulfide	4.098	76	15991	1.619	ug/l	99
25) 2-Butanone	6.890	43	67547	72.856	ug/l	94
84) 1,2,4-Trimethylbenzene	13.035	105	16174	1.167	ug/l	98

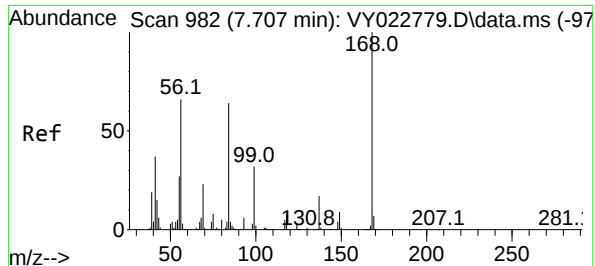
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022798.D
Acq On : 24 Jun 2025 15:29
Operator : SY/MD
Sample : Q2393-08
Misc : 8.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -4

Quant Time: Jun 25 01:27:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

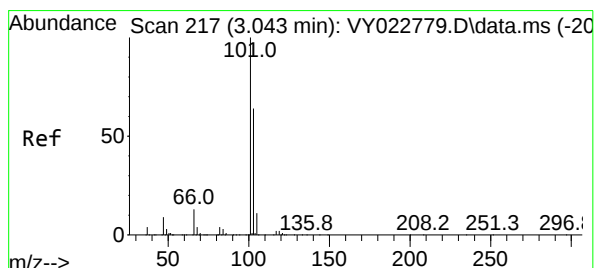
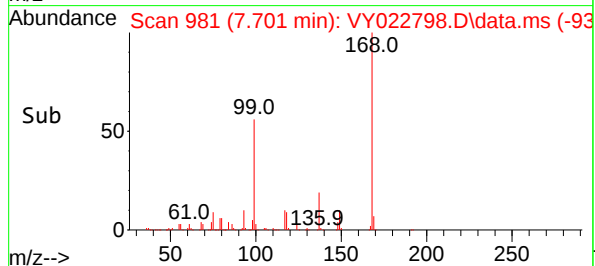
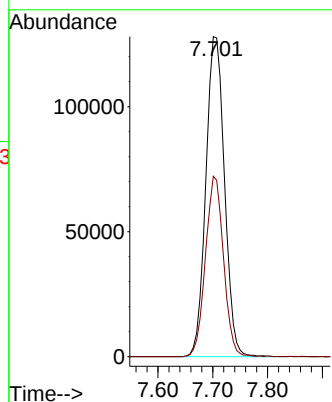
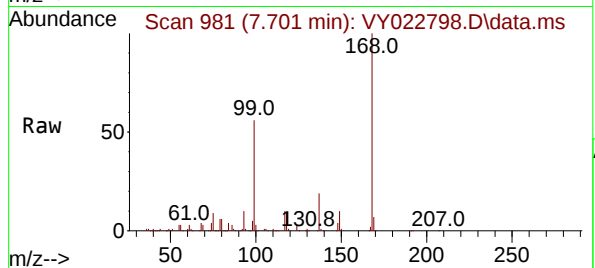




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY022798.D
Acq: 24 Jun 2025 15:29

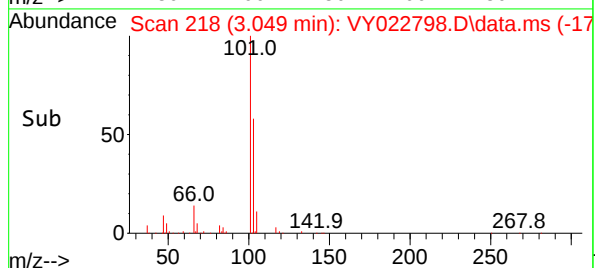
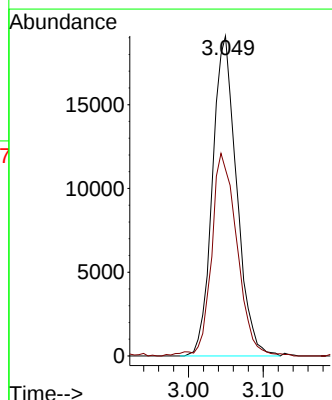
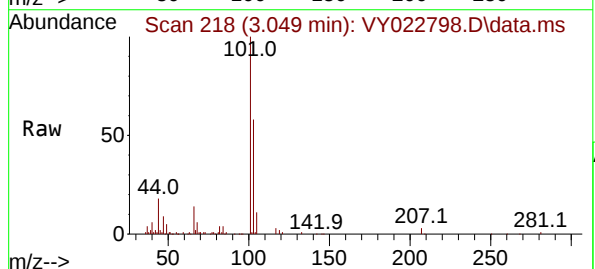
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -4

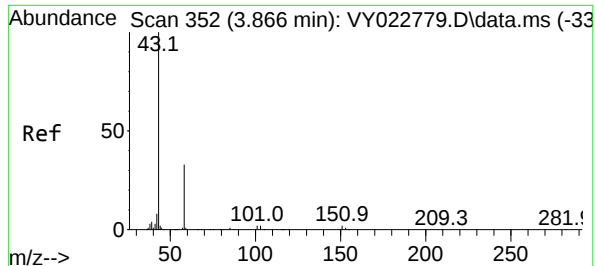
Tgt Ion:168 Resp: 301973
Ion Ratio Lower Upper
168 100
99 56.4 44.3 66.5



#7
Trichlorofluoromethane
Concen: 6.300 ug/l
RT: 3.049 min Scan# 218
Delta R.T. -0.006 min
Lab File: VY022798.D
Acq: 24 Jun 2025 15:29

Tgt Ion:101 Resp: 42970
Ion Ratio Lower Upper
101 100
103 57.6 52.2 78.2





#16

Acetone

Concen: 123.501 ug/l

RT: 3.866 min Scan# 31

Delta R.T. -0.012 min

Lab File: VY022798.D

Acq: 24 Jun 2025 15:29

Instrument :

MSVOA_Y

ClientSampleId :

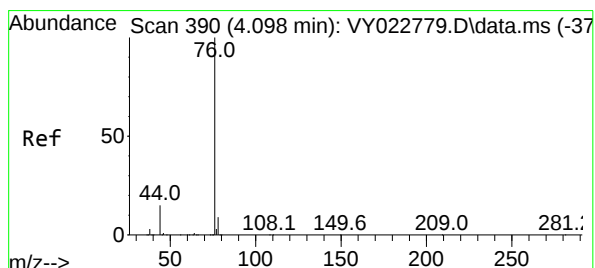
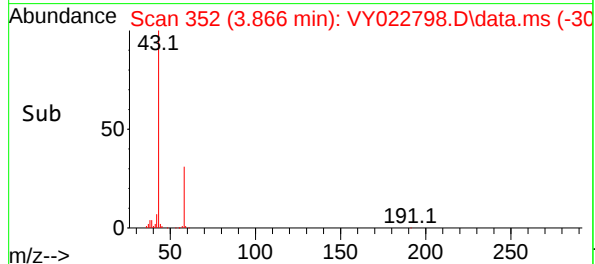
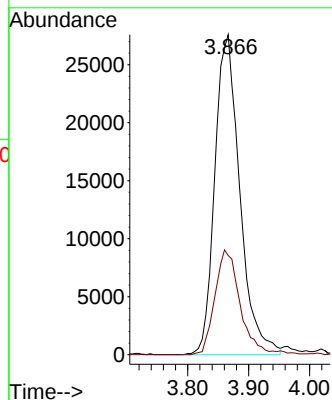
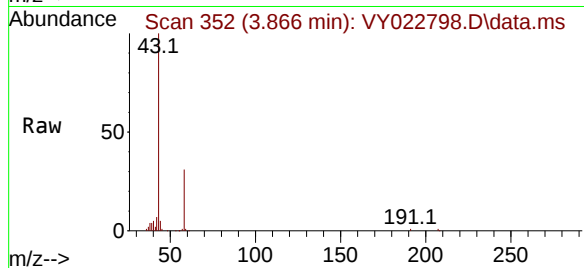
PARK AVE -4

Tgt Ion: 43 Resp: 78672

Ion Ratio Lower Upper

43 100

58 31.0 24.0 36.0



#17

Carbon Disulfide

Concen: 1.619 ug/l

RT: 4.098 min Scan# 390

Delta R.T. -0.012 min

Lab File: VY022798.D

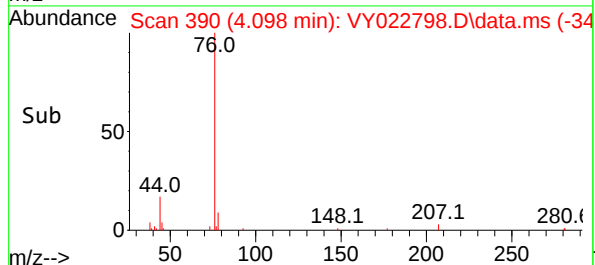
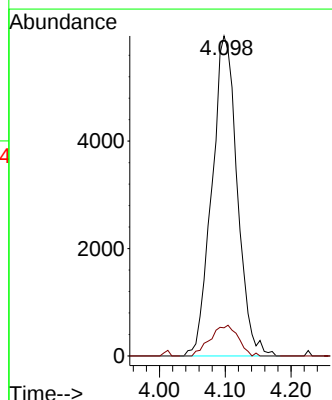
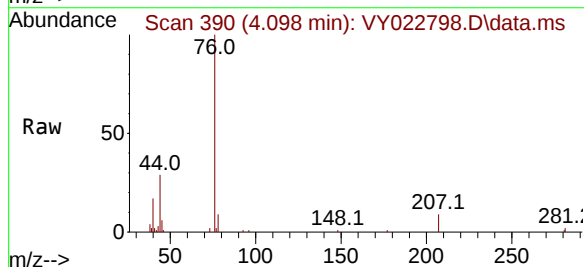
Acq: 24 Jun 2025 15:29

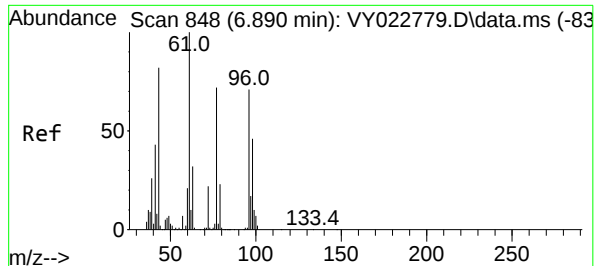
Tgt Ion: 76 Resp: 15991

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.2





#25

2-Butanone

Concen: 72.856 ug/l

RT: 6.890 min Scan# 848

Delta R.T. -0.012 min

Lab File: VY022798.D

Acq: 24 Jun 2025 15:29

Instrument :

MSVOA_Y

ClientSampleId :

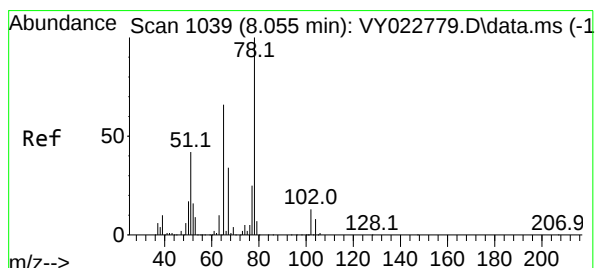
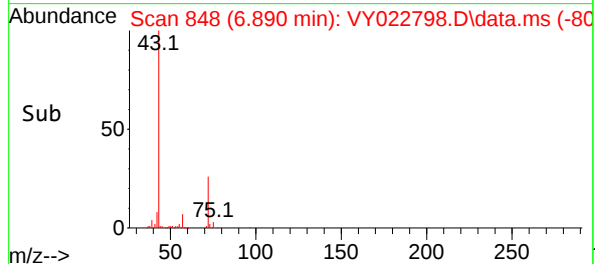
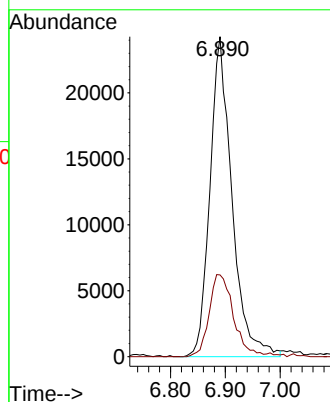
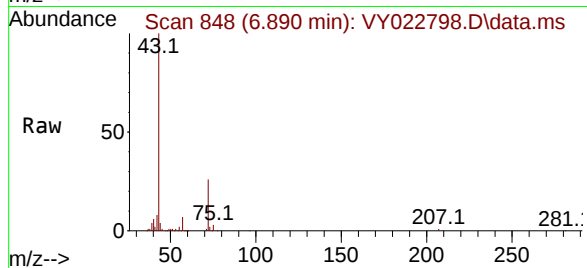
PARK AVE -4

Tgt Ion: 43 Resp: 67547

Ion Ratio Lower Upper

43 100

72 25.5 22.9 34.3



#33

1,2-Dichloroethane-d4

Concen: 48.205 ug/l

RT: 8.055 min Scan# 1039

Delta R.T. -0.012 min

Lab File: VY022798.D

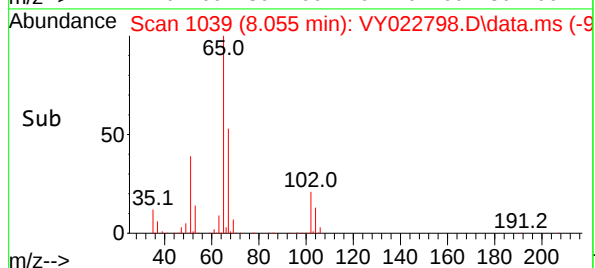
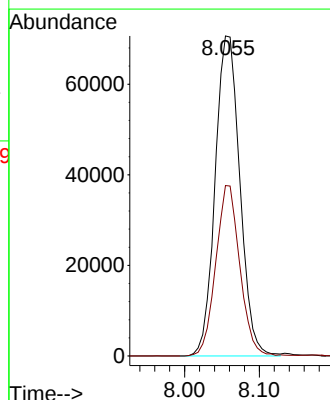
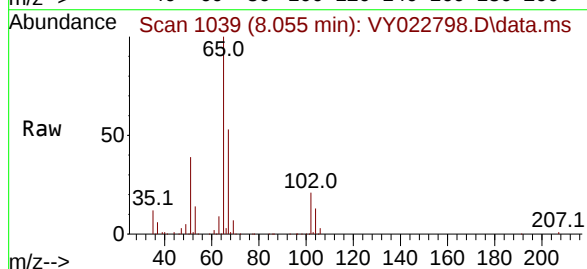
Acq: 24 Jun 2025 15:29

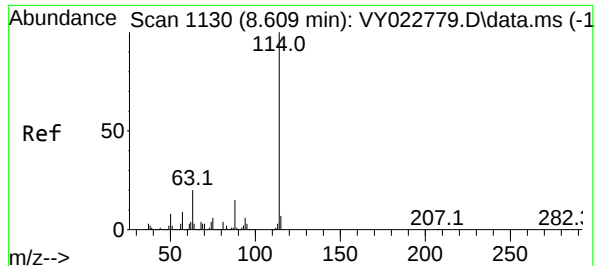
Tgt Ion: 65 Resp: 162465

Ion Ratio Lower Upper

65 100

67 52.0 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022798.D

Acq: 24 Jun 2025 15:29

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -4

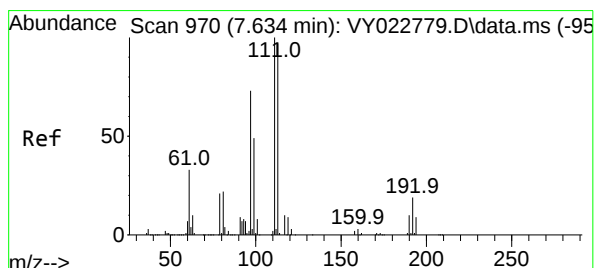
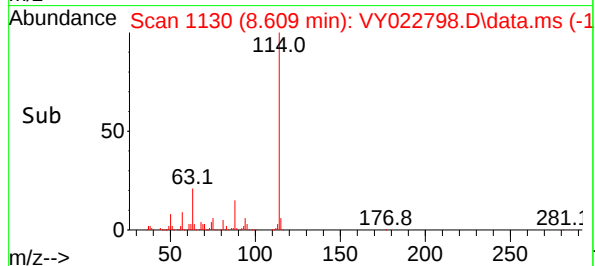
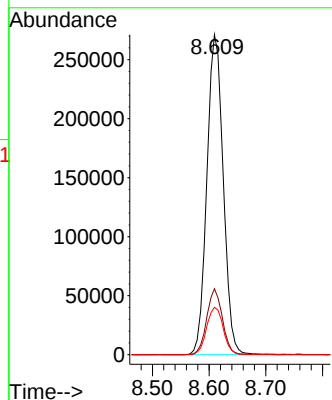
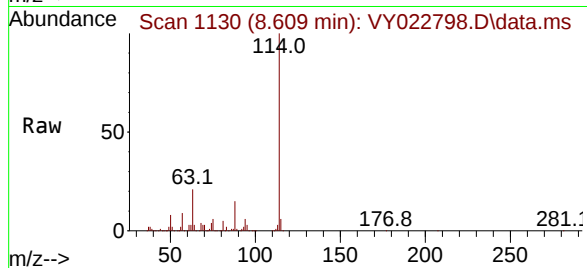
Tgt Ion:114 Resp: 544282

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 14.8 0.0 27.8



#35

Dibromofluoromethane

Concen: 48.744 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022798.D

Acq: 24 Jun 2025 15:29

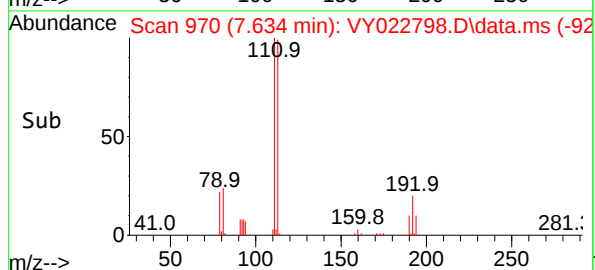
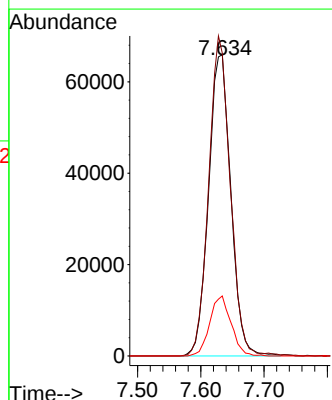
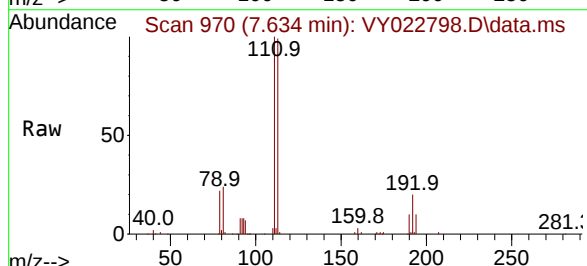
Tgt Ion:113 Resp: 161346

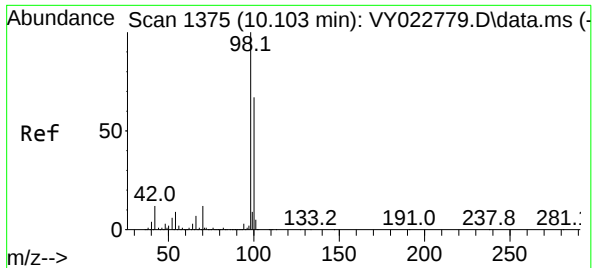
Ion Ratio Lower Upper

113 100

111 102.7 81.1 121.7

192 19.0 14.2 21.2

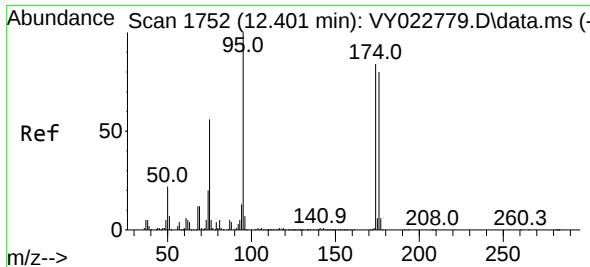
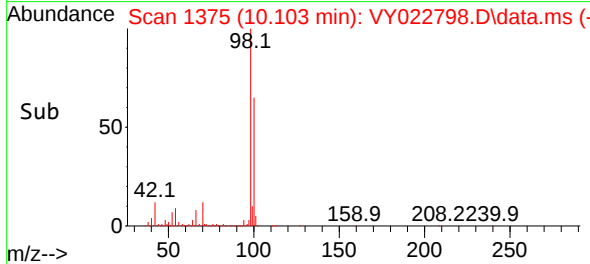
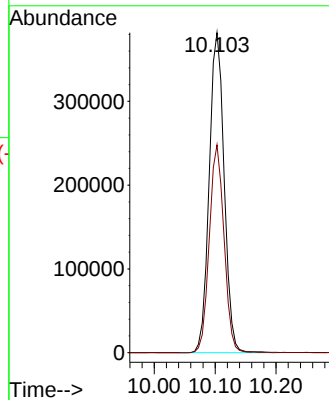
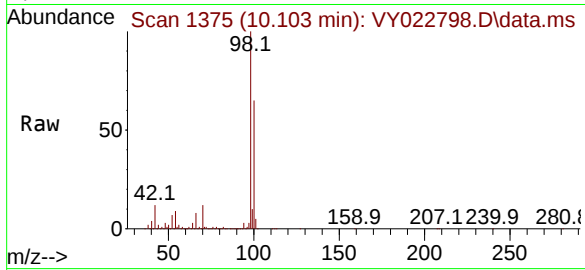




#50
Toluene-d8
Concen: 49.544 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022798.D
Acq: 24 Jun 2025 15:29

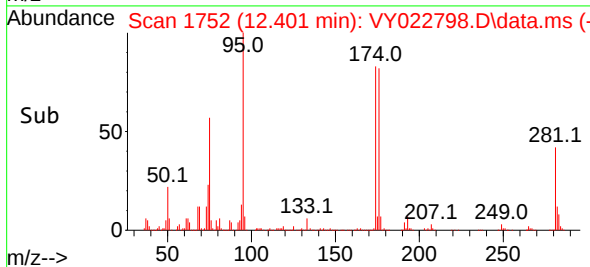
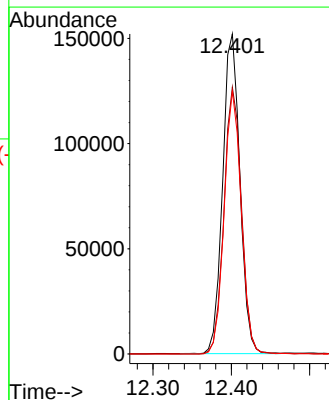
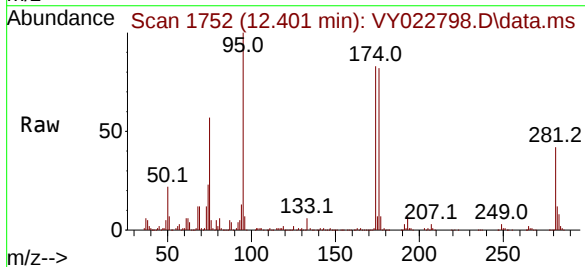
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -4

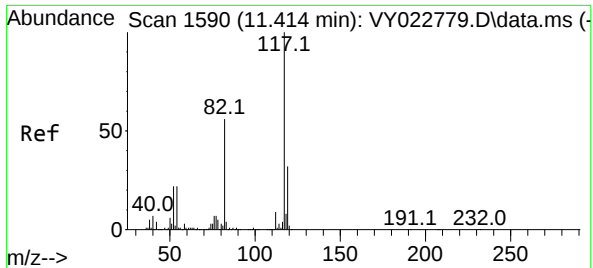
Tgt Ion: 98 Resp: 650744
Ion Ratio Lower Upper
98 100
100 64.0 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 55.191 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022798.D
Acq: 24 Jun 2025 15:29

Tgt Ion: 95 Resp: 233038
Ion Ratio Lower Upper
95 100
174 84.8 0.0 170.0
176 81.6 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY022798.D

Acq: 24 Jun 2025 15:29

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -4

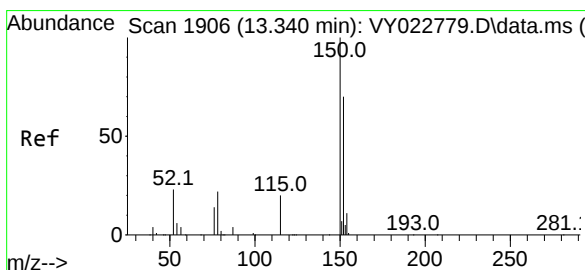
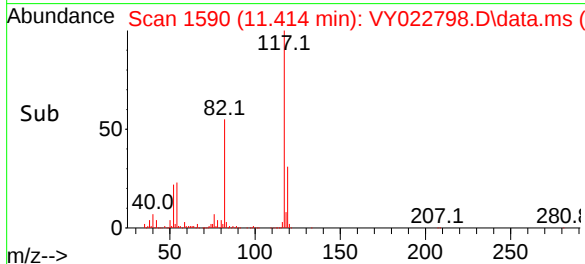
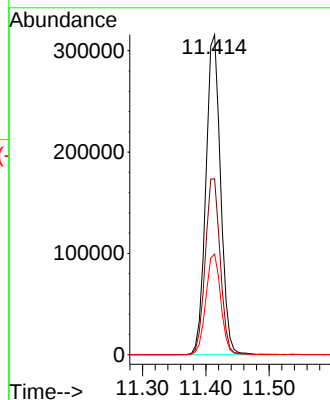
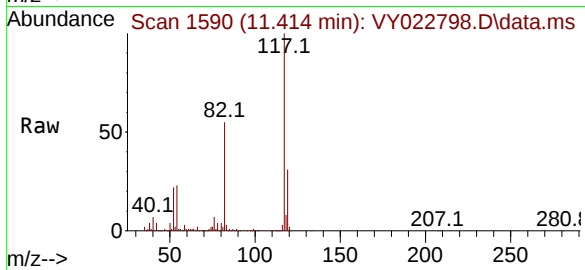
Tgt Ion:117 Resp: 511623

Ion Ratio Lower Upper

117 100

82 54.9 44.6 66.8

119 31.5 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY022798.D

Acq: 24 Jun 2025 15:29

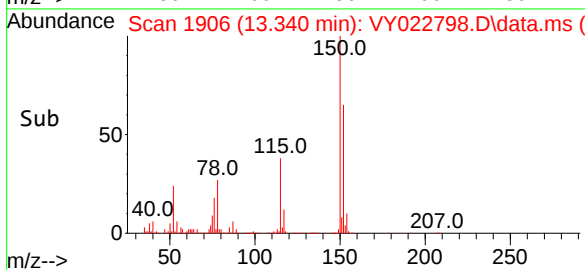
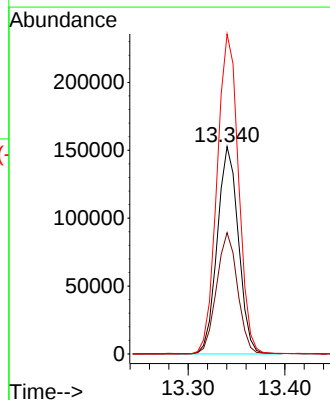
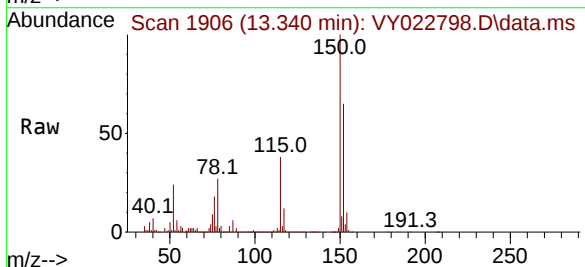
Tgt Ion:152 Resp: 231837

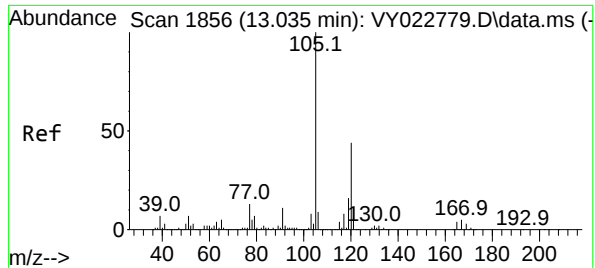
Ion Ratio Lower Upper

152 100

115 57.8 28.9 86.7

150 156.8 0.0 349.6





#84

1,2,4-Trimethylbenzene

Concen: 1.167 ug/l

RT: 13.035 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022798.D

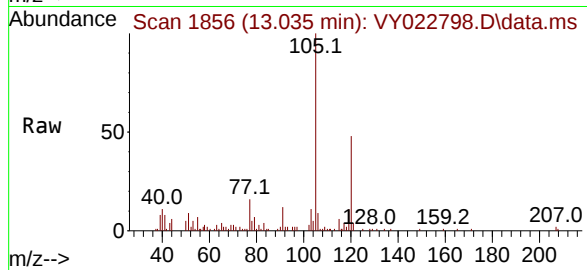
Acq: 24 Jun 2025 15:29

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -4

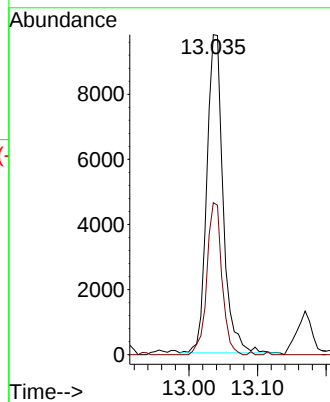
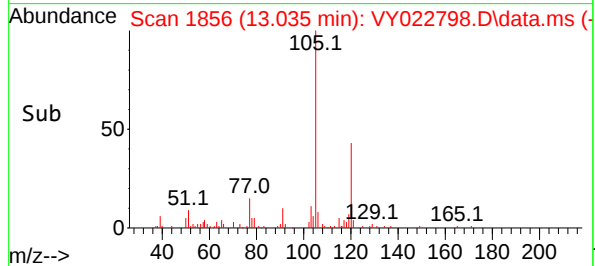


Tgt Ion:105 Resp: 16174

Ion Ratio Lower Upper

105 100

120 44.3 22.7 68.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022798.D
 Acq On : 24 Jun 2025 15:29
 Operator : SY/MD
 Sample : Q2393-08
 Misc : 8.42g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -4

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Title : SW846 8260

Signal : TIC: VY022798.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.476	118	124	133	rBV5	9554	31206	1.68%	0.272%
2	3.043	211	217	226	rVB2	52024	141700	7.61%	1.235%
3	3.866	341	352	362	rBV	43690	129861	6.97%	1.131%
4	4.104	382	391	397	rBV2	8904	25099	1.35%	0.219%
5	4.616	463	475	487	rBV4	12153	44965	2.41%	0.392%
6	6.890	839	848	867	rBV	40082	116252	6.24%	1.013%
7	7.628	959	969	975	rBV	227338	546201	29.32%	4.759%
8	7.701	975	981	996	rVB	390709	903419	48.49%	7.871%
9	8.055	1031	1039	1049	rBV	210156	465219	24.97%	4.053%
10	8.609	1122	1130	1144	rBV	633641	1271196	68.23%	11.076%
11	10.103	1368	1375	1382	rBV	1018231	1725687	92.63%	15.036%
12	10.505	1436	1441	1447	rBV3	9989	19745	1.06%	0.172%
13	11.414	1582	1590	1597	rBV	986931	1624049	87.17%	14.150%
14	11.505	1601	1605	1616	rVB3	12738	27687	1.49%	0.241%
15	11.633	1616	1626	1635	rBV6	15062	43625	2.34%	0.380%
16	11.950	1674	1678	1688	rVB5	11388	26618	1.43%	0.232%
17	12.249	1722	1727	1733	rVB2	19255	31375	1.68%	0.273%
18	12.340	1737	1742	1746	rBV2	16506	29814	1.60%	0.260%
19	12.401	1746	1752	1763	rVB3	1010945	1863031	100.00%	16.232%
20	12.651	1787	1793	1796	rBV3	14097	25500	1.37%	0.222%
21	12.725	1801	1805	1811	rVB3	29771	46171	2.48%	0.402%
22	12.804	1815	1818	1825	rVB4	15422	26472	1.42%	0.231%
23	12.889	1825	1832	1836	rBV4	11190	23558	1.26%	0.205%
24	13.035	1851	1856	1863	rBV	28747	47422	2.55%	0.413%
25	13.261	1886	1893	1895	rBV6	13144	25203	1.35%	0.220%
26	13.340	1900	1906	1914	rVB	952978	1444382	77.53%	12.585%
27	13.541	1935	1939	1942	rBV3	18362	29068	1.56%	0.253%
28	13.584	1942	1946	1954	rVB6	16181	34134	1.83%	0.297%
29	13.663	1954	1959	1964	rBV5	19588	35665	1.91%	0.311%
30	13.743	1968	1972	1976	rVB2	10523	19211	1.03%	0.167%
31	13.883	1990	1995	2002	rVB2	41290	64343	3.45%	0.561%
32	13.999	2009	2014	2019	rBV3	16515	28070	1.51%	0.245%
33	14.243	2051	2054	2059	rVB2	15426	21909	1.18%	0.191%
34	14.480	2089	2093	2096	rBV4	14001	24069	1.29%	0.210%
35	14.523	2097	2100	2105	rVV4	22864	41459	2.23%	0.361%
36	14.590	2106	2111	2117	rVV5	27086	59973	3.22%	0.523%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022798.D
 Acq On : 24 Jun 2025 15:29
 Operator : SY/MD
 Sample : Q2393-08
 Misc : 8.42g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -4

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Title : SW846 8260

37	14.742	2132	2136	2141	rVB2	17118	26181	1.41%	0.228%
38	14.852	2145	2154	2158	rBV9	15781	37473	2.01%	0.326%
39	14.962	2167	2172	2178	rVB3	12153	26203	1.41%	0.228%
40	15.139	2192	2201	2206	rBV	38963	76833	4.12%	0.669%
41	15.194	2206	2210	2214	rBV4	18173	26244	1.41%	0.229%
42	15.425	2243	2248	2255	rVB5	10255	20651	1.11%	0.180%
43	15.578	2266	2273	2275	rBV8	13616	26726	1.43%	0.233%
44	15.620	2276	2280	2291	rVB9	23197	55556	2.98%	0.484%
45	15.919	2324	2329	2334	rVB7	12907	25110	1.35%	0.219%
46	16.108	2355	2360	2366	rBV9	11712	23624	1.27%	0.206%
47	16.175	2366	2371	2378	rVB2	21496	36695	1.97%	0.320%
48	16.364	2397	2402	2409	rVB4	18179	32646	1.75%	0.284%

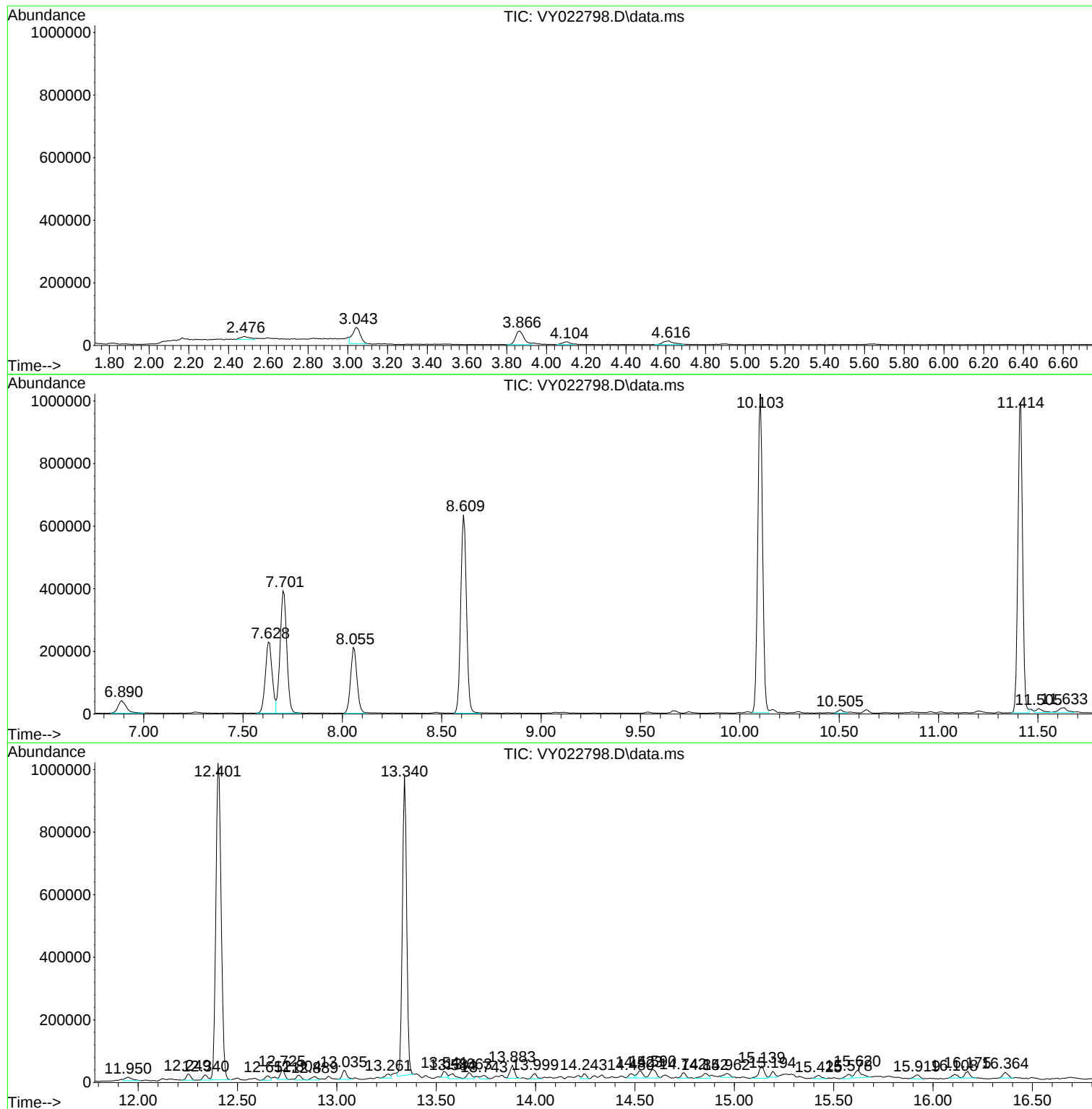
Sum of corrected areas: 11477300

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022798.D
Acq On : 24 Jun 2025 15:29
Operator : SY/MD
Sample : Q2393-08
Misc : 8.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -4

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022798.D
Acq On : 24 Jun 2025 15:29
Operator : SY/MD
Sample : Q2393-08
Misc : 8.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -4

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

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022798.D
Acq On : 24 Jun 2025 15:29
Operator : SY/MD
Sample : Q2393-08
Misc : 8.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -4

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

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

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

Client:	Union Paving & Construction Company		Date Collected:	06/23/25	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	06/23/25	
Client Sample ID:	PARK AVE -5		SDG No.:	Q2393	
Lab Sample ID:	Q2393-10		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	88.4	
Sample Wt/Vol:	4.54	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022799.D	1		06/24/25 15:52	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	6.20	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	6.20	ug/Kg
75-01-4	Vinyl Chloride	0.98	U	0.98	6.20	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.20	ug/Kg
75-00-3	Chloroethane	1.60	U	1.60	6.20	ug/Kg
75-69-4	Trichlorofluoromethane	2.80	J	1.50	6.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	6.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	6.20	ug/Kg
67-64-1	Acetone	11.6	J	5.90	31.1	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	6.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.91	U	0.91	6.20	ug/Kg
79-20-9	Methyl Acetate	1.90	U	1.90	6.20	ug/Kg
75-09-2	Methylene Chloride	4.40	U	4.40	12.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.20	ug/Kg
75-34-3	1,1-Dichloroethane	1.00	U	1.00	6.20	ug/Kg
110-82-7	Cyclohexane	0.98	U	0.98	6.20	ug/Kg
78-93-3	2-Butanone	8.10	U	8.10	31.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	6.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.93	U	0.93	6.20	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	6.20	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	6.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	6.20	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.20	ug/Kg
71-43-2	Benzene	0.98	U	0.98	6.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.98	U	0.98	6.20	ug/Kg
79-01-6	Trichloroethene	1.00	U	1.00	6.20	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	6.20	ug/Kg
75-27-4	Bromodichloromethane	0.97	U	0.97	6.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.50	U	4.50	31.1	ug/Kg
108-88-3	Toluene	0.97	U	0.97	6.20	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -5	SDG No.:	Q2393
Lab Sample ID:	Q2393-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.4
Sample Wt/Vol:	4.54 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022799.D	1		06/24/25 15:52	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.81	U	0.81	6.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.77	U	0.77	6.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.20	ug/Kg
591-78-6	2-Hexanone	4.60	U	4.60	31.1	ug/Kg
124-48-1	Dibromochloromethane	1.10	U	1.10	6.20	ug/Kg
106-93-4	1,2-Dibromoethane	1.10	U	1.10	6.20	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	6.20	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	6.20	ug/Kg
100-41-4	Ethyl Benzene	0.83	U	0.83	6.20	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	12.5	ug/Kg
95-47-6	o-Xylene	1.00	U	1.00	6.20	ug/Kg
100-42-5	Styrene	0.88	U	0.88	6.20	ug/Kg
75-25-2	Bromoform	1.10	U	1.10	6.20	ug/Kg
98-82-8	Isopropylbenzene	0.97	U	0.97	6.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	1.50	6.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	2.10	6.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	6.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.80	6.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.30	U	2.30	6.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.70	U	3.70	6.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.00	U	4.00	6.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.8		63 - 155	94%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	48.5		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		17 - 146	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	317000	7.707			
540-36-3	1,4-Difluorobenzene	576000	8.61			
3114-55-4	Chlorobenzene-d5	531000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	229000	13.34			

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -5	SDG No.:	Q2393
Lab Sample ID:	Q2393-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.4
Sample Wt/Vol:	4.54 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022799.D	1		06/24/25 15:52	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022799.D
 Acq On : 24 Jun 2025 15:52
 Operator : SY/MD
 Sample : Q2393-10
 Misc : 4.54g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -5

Quant Time: Jun 25 01:27:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

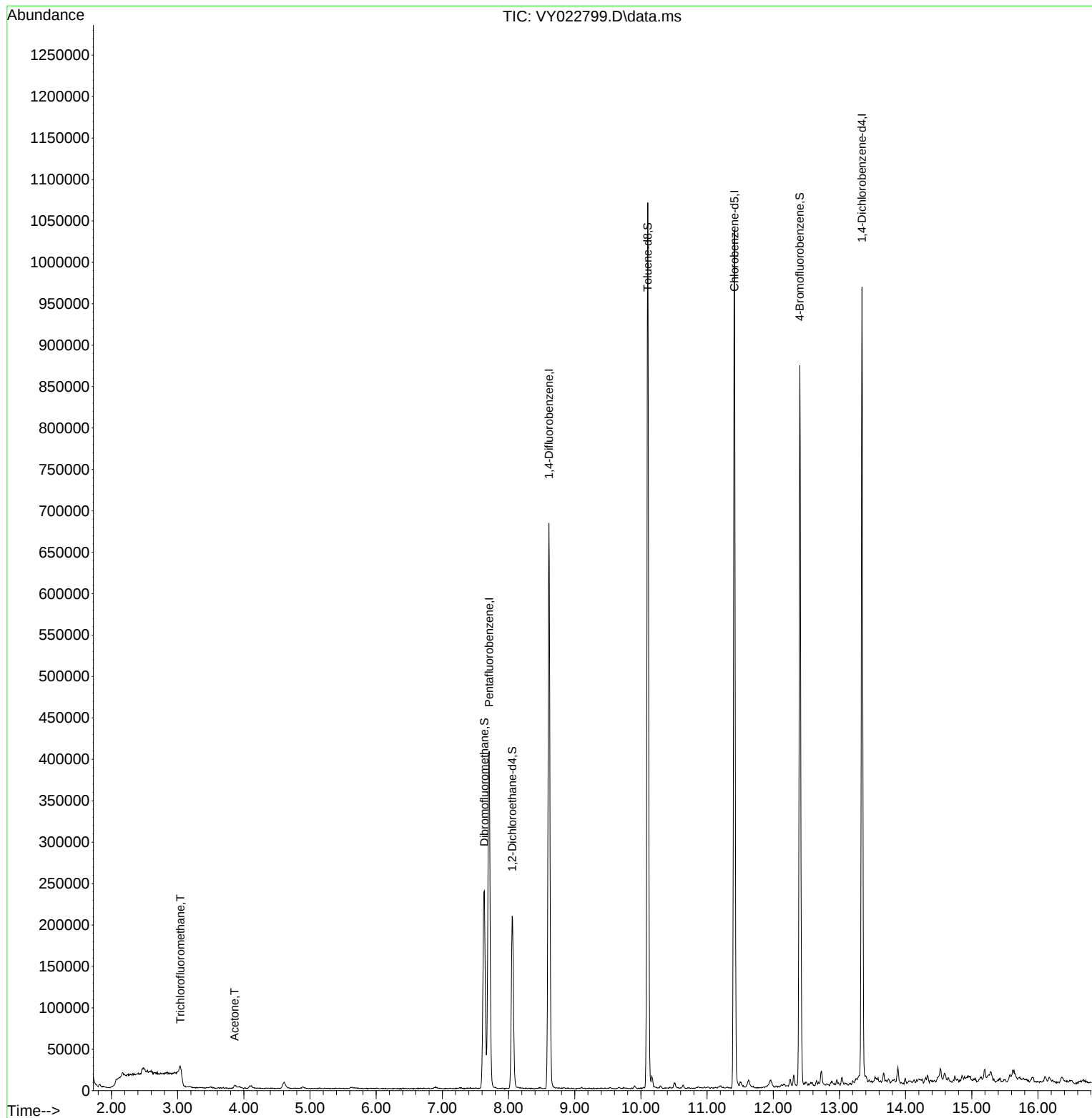
Internal Standards						
1) Pentafluorobenzene	7.707	168	316843	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	576057	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	531349	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	229194	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	165593	46.827	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	93.660%
35) Dibromofluoromethane	7.634	113	171894	49.066	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.140%
50) Toluene-d8	10.103	98	673865	48.474	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.940%
62) 4-Bromofluorobenzene	12.402	95	230553	51.590	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	103.180%
Target Compounds						
7) Trichlorofluoromethane	3.043	101	16206	2.264	ug/l	92
16) Acetone	3.860	43	6248	9.348	ug/l	96

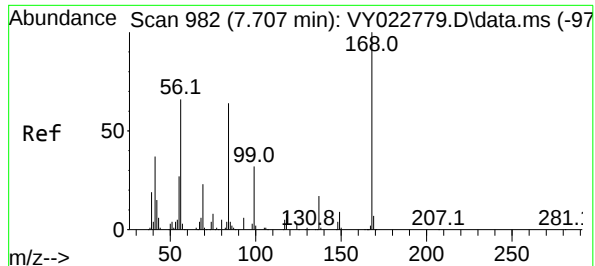
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022799.D
Acq On : 24 Jun 2025 15:52
Operator : SY/MD
Sample : Q2393-10
Misc : 4.54g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -5

Quant Time: Jun 25 01:27:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

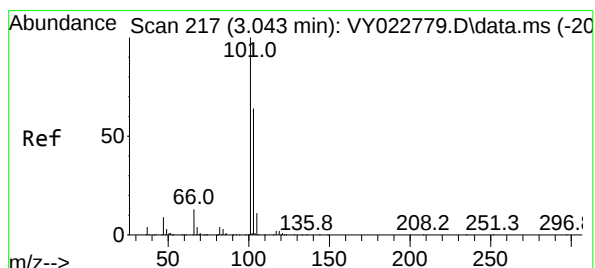
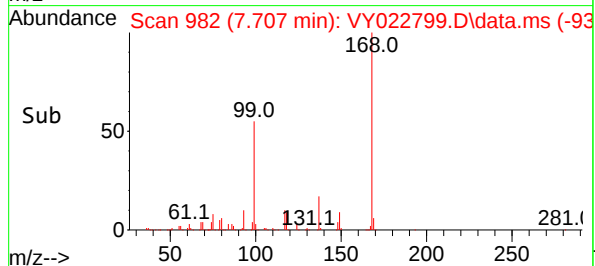
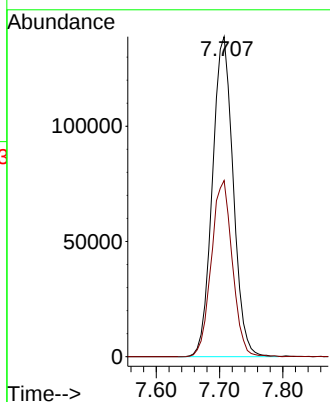
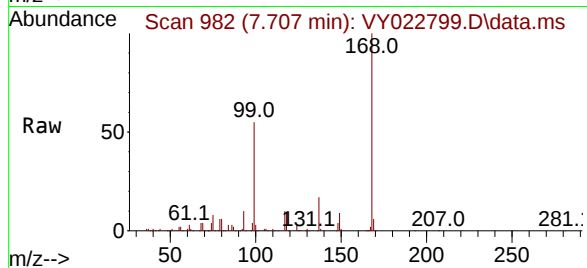




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.006 min
Lab File: VY022799.D
Acq: 24 Jun 2025 15:52

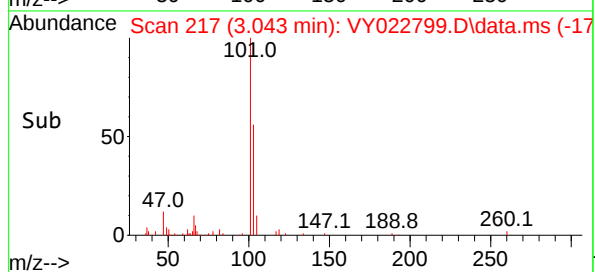
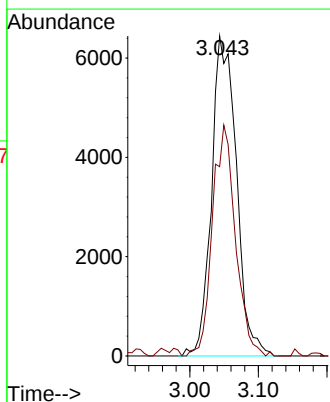
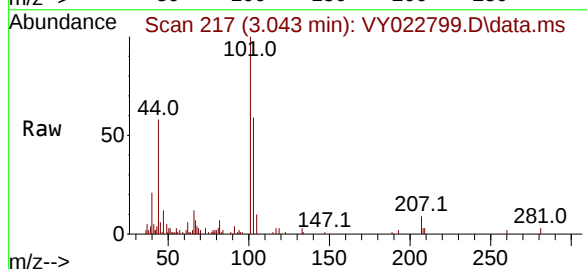
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -5

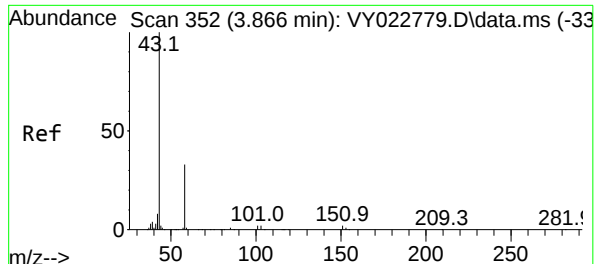
Tgt Ion:168 Resp: 316843
Ion Ratio Lower Upper
168 100
99 55.1 44.3 66.5



#7
Trichlorofluoromethane
Concen: 2.264 ug/l
RT: 3.043 min Scan# 217
Delta R.T. -0.012 min
Lab File: VY022799.D
Acq: 24 Jun 2025 15:52

Tgt Ion:101 Resp: 16206
Ion Ratio Lower Upper
101 100
103 59.2 52.2 78.2

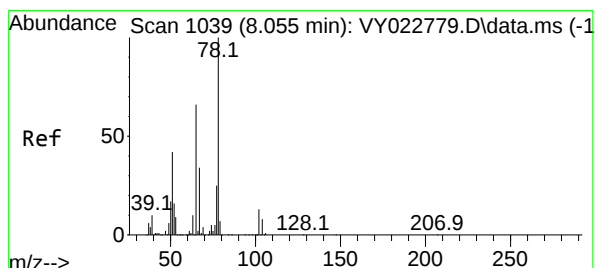
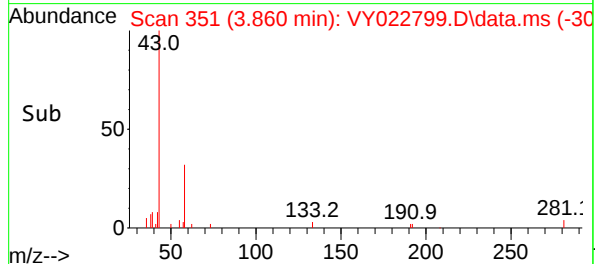
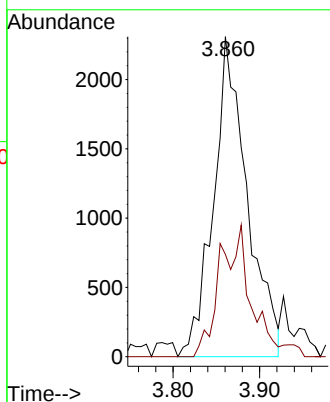
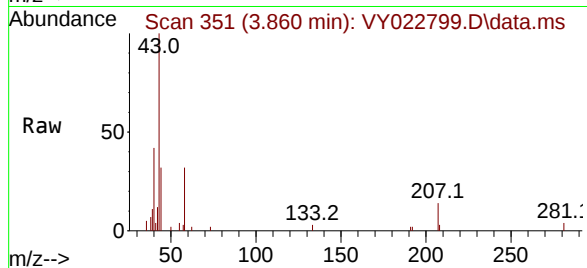




#16
Acetone
Concen: 9.348 ug/l
RT: 3.860 min Scan# 351
Delta R.T. -0.018 min
Lab File: VY022799.D
Acq: 24 Jun 2025 15:52

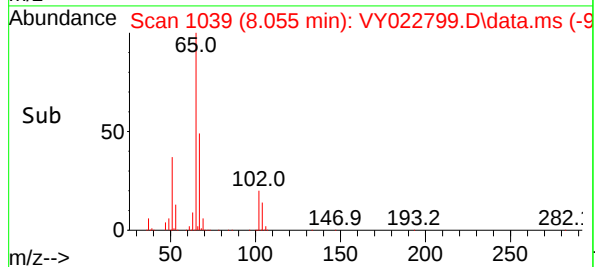
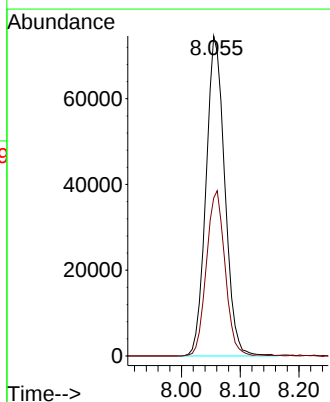
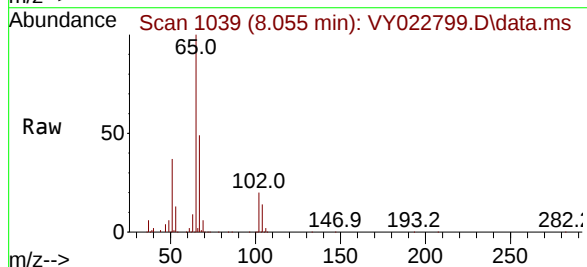
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -5

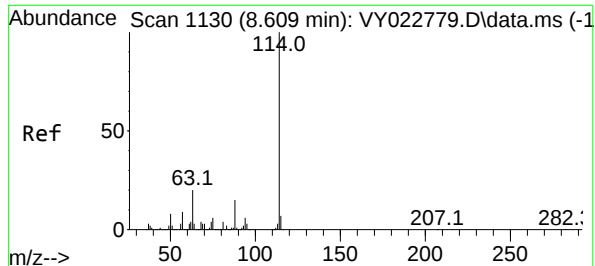
Tgt Ion: 43 Resp: 6248
Ion Ratio Lower Upper
43 100
58 31.9 24.0 36.0



#33
1,2-Dichloroethane-d4
Concen: 46.827 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.012 min
Lab File: VY022799.D
Acq: 24 Jun 2025 15:52

Tgt Ion: 65 Resp: 165593
Ion Ratio Lower Upper
65 100
67 51.2 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022799.D

Acq: 24 Jun 2025 15:52

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -5

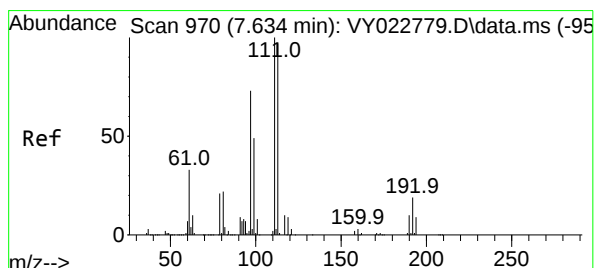
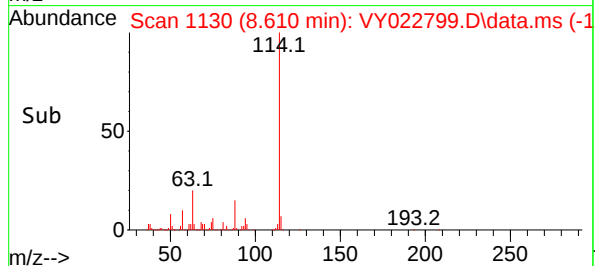
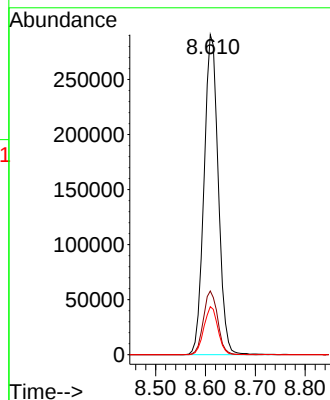
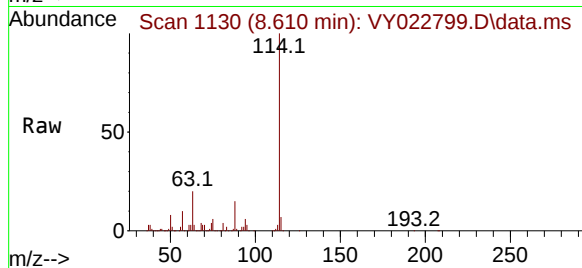
Tgt Ion:114 Resp: 576057

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.8

88 15.0 0.0 27.8



#35

Dibromofluoromethane

Concen: 49.066 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022799.D

Acq: 24 Jun 2025 15:52

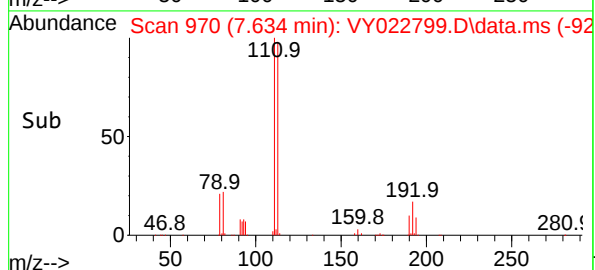
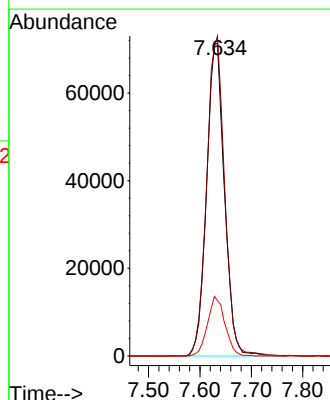
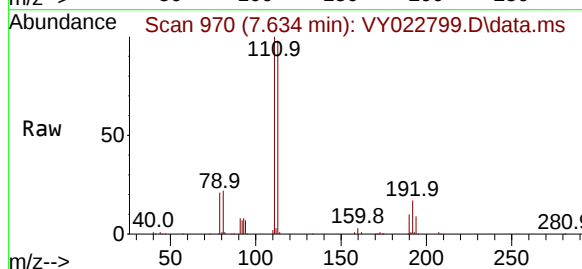
Tgt Ion:113 Resp: 171894

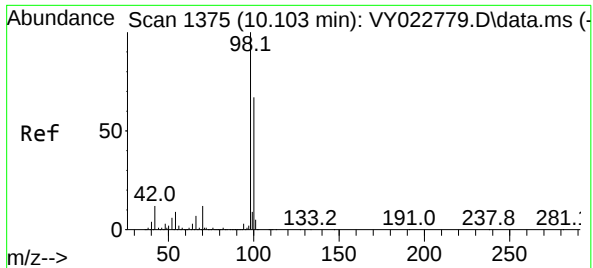
Ion Ratio Lower Upper

113 100

111 102.7 81.1 121.7

192 18.6 14.2 21.2

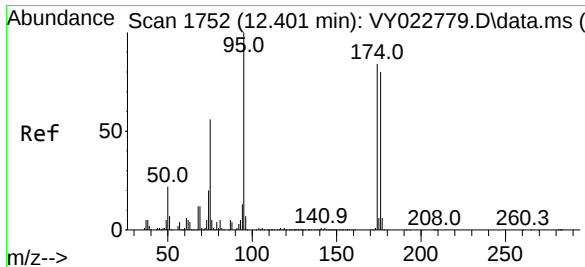
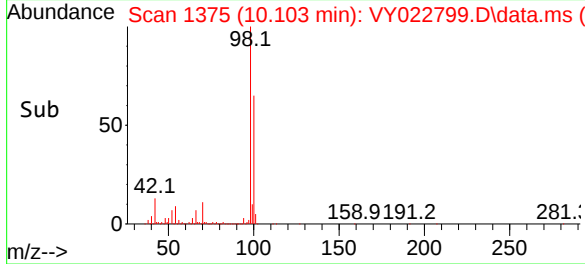
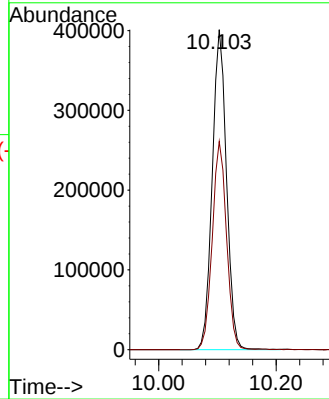
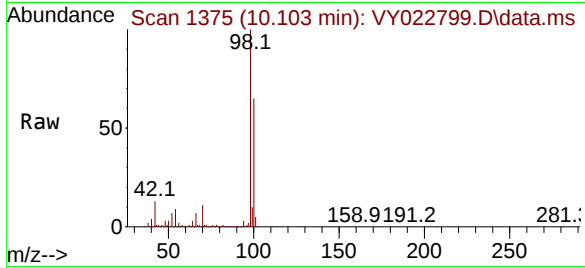




#50
Toluene-d8
Concen: 48.474 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022799.D
Acq: 24 Jun 2025 15:52

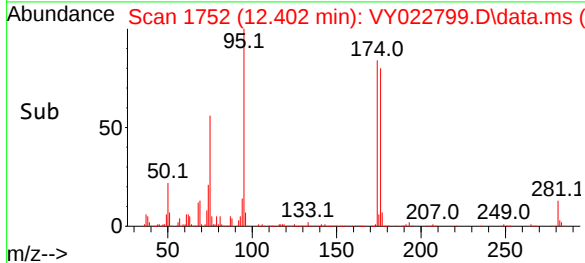
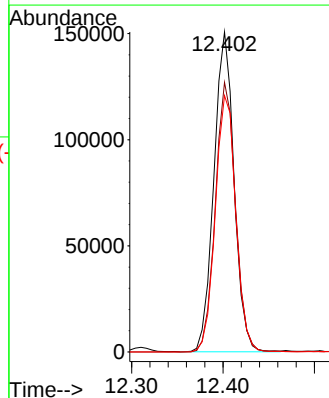
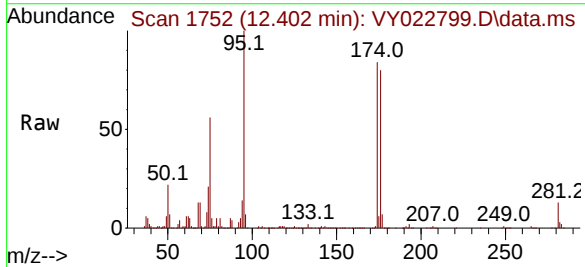
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -5

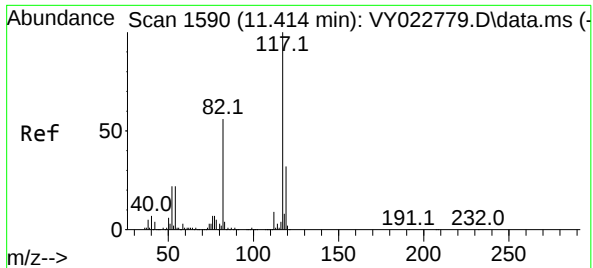
Tgt Ion: 98 Resp: 673865
Ion Ratio Lower Upper
98 100
100 65.1 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 51.590 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022799.D
Acq: 24 Jun 2025 15:52

Tgt Ion: 95 Resp: 230553
Ion Ratio Lower Upper
95 100
174 84.7 0.0 170.0
176 81.8 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022799.D

Acq: 24 Jun 2025 15:52

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -5

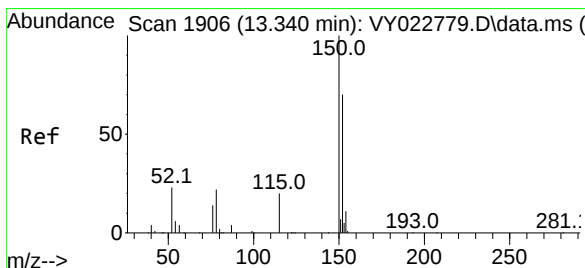
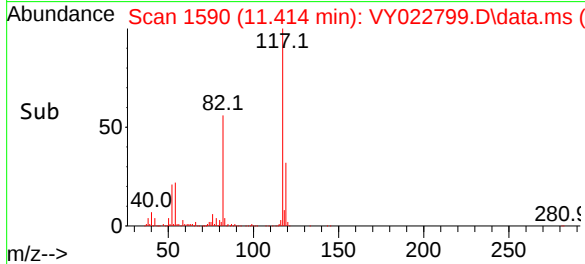
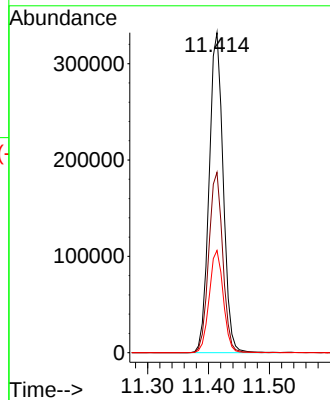
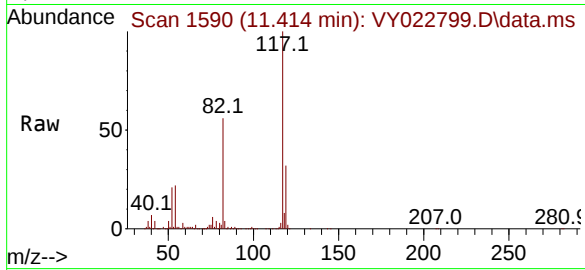
Tgt Ion:117 Resp: 531349

Ion Ratio Lower Upper

117 100

82 56.4 44.6 66.8

119 31.9 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY022799.D

Acq: 24 Jun 2025 15:52

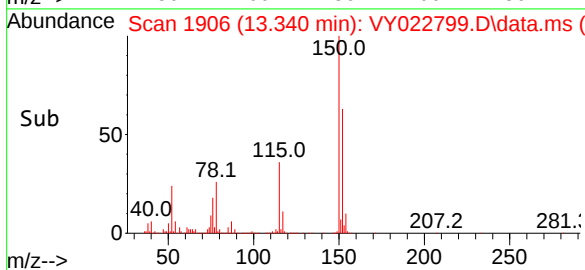
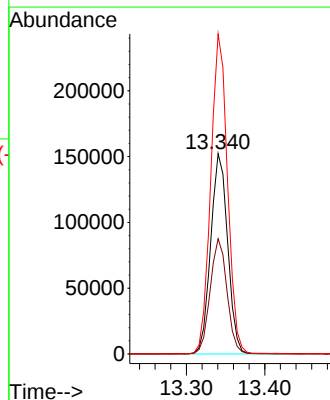
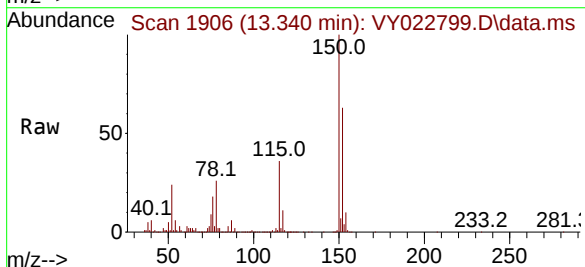
Tgt Ion:152 Resp: 229194

Ion Ratio Lower Upper

152 100

115 56.6 28.9 86.7

150 157.7 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022799.D
 Acq On : 24 Jun 2025 15:52
 Operator : SY/MD
 Sample : Q2393-10
 Misc : 4.54g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -5

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Title : SW846 8260

Signal : TIC: VY022799.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.074	48	58	60	rBV7	9331	20726	1.14%	0.206%
2	2.483	119	125	132	rBV10	7526	24892	1.37%	0.247%
3	4.610	463	474	483	rBV5	7944	26484	1.46%	0.263%
4	7.634	959	970	975	rBV	238414	576364	31.83%	5.724%
5	7.707	975	982	995	rVB	406087	942395	52.05%	9.359%
6	8.055	1031	1039	1051	rBV	208220	469902	25.95%	4.667%
7	8.610	1121	1130	1140	rBV	682824	1343848	74.22%	13.347%
8	10.103	1367	1375	1383	rBV	1068678	1810550	100.00%	17.982%
9	10.164	1383	1385	1390	rVB	13112	19564	1.08%	0.194%
10	11.414	1582	1590	1601	rBV	1036321	1685282	93.08%	16.737%
11	11.627	1617	1625	1636	rVB8	8620	21527	1.19%	0.214%
12	11.963	1669	1680	1690	rVB8	8813	28120	1.55%	0.279%
13	12.310	1733	1737	1744	rVB4	12508	18644	1.03%	0.185%
14	12.402	1744	1752	1761	rBV2	869573	1457941	80.52%	14.480%
15	12.725	1801	1805	1815	rVB7	16850	32766	1.81%	0.325%
16	13.340	1894	1906	1914	rBV	956856	1451664	80.18%	14.417%
17	13.883	1990	1995	2001	rVB3	19491	32775	1.81%	0.326%
18	14.523	2089	2100	2106	rBV3	16352	45461	2.51%	0.451%
19	14.584	2106	2110	2117	rVB7	8539	19241	1.06%	0.191%
20	15.285	2222	2225	2231	rVB2	10491	20729	1.14%	0.206%
21	16.358	2395	2401	2408	rBV2	7223	20027	1.11%	0.199%

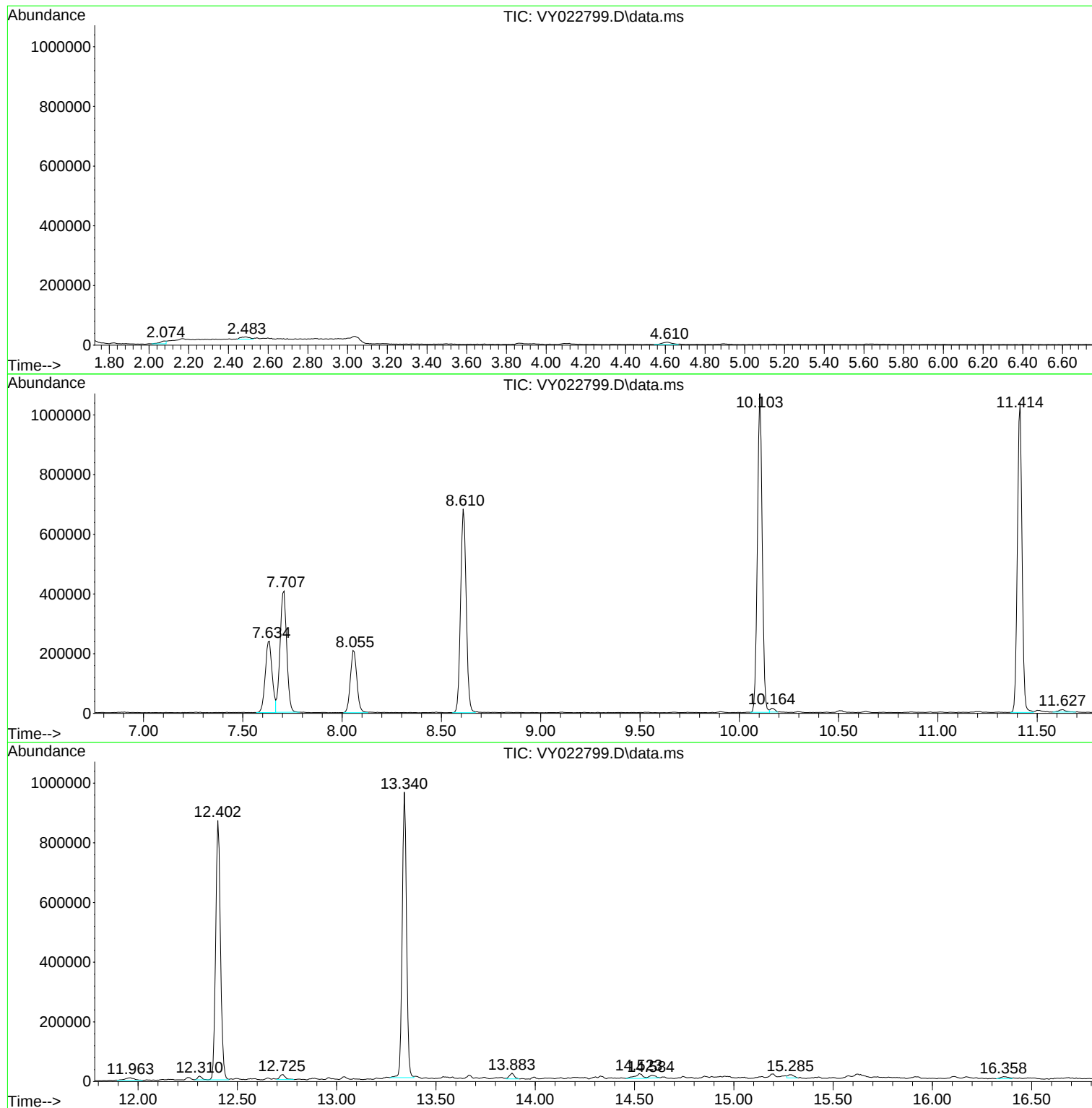
Sum of corrected areas: 10068902

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022799.D
Acq On : 24 Jun 2025 15:52
Operator : SY/MD
Sample : Q2393-10
Misc : 4.54g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -5

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022799.D
Acq On : 24 Jun 2025 15:52
Operator : SY/MD
Sample : Q2393-10
Misc : 4.54g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -5

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

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022799.D
Acq On : 24 Jun 2025 15:52
Operator : SY/MD
Sample : Q2393-10
Misc : 4.54g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -5

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

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

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

Client:	Union Paving & Construction Company		Date Collected:	06/23/25	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	06/23/25	
Client Sample ID:	PARK AVE -6		SDG No.:	Q2393	
Lab Sample ID:	Q2393-12		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	87.7	
Sample Wt/Vol:	6.11	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022800.D	1		06/24/25 16:16	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.74	U	0.74	4.70	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	13.9		1.10	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.99	U	0.99	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.93	U	0.93	4.70	ug/Kg
67-64-1	Acetone	22.2	J	4.40	23.3	ug/Kg
75-15-0	Carbon Disulfide	0.99	U	0.99	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	4.70	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.70	ug/Kg
75-09-2	Methylene Chloride	3.30	U	3.30	9.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.80	U	0.80	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.75	U	0.75	4.70	ug/Kg
110-82-7	Cyclohexane	0.74	U	0.74	4.70	ug/Kg
78-93-3	2-Butanone	6.10	U	6.10	23.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.91	U	0.91	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.70	U	0.70	4.70	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.70	ug/Kg
67-66-3	Chloroform	0.78	U	0.78	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.85	U	0.85	4.70	ug/Kg
71-43-2	Benzene	0.74	U	0.74	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.74	U	0.74	4.70	ug/Kg
79-01-6	Trichloroethene	0.76	U	0.76	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.85	U	0.85	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.73	U	0.73	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	23.3	ug/Kg
108-88-3	Toluene	0.73	U	0.73	4.70	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -6	SDG No.:	Q2393
Lab Sample ID:	Q2393-12	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.7
Sample Wt/Vol:	6.11 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022800.D	1		06/24/25 16:16	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.86	U	0.86	4.70	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	23.3	ug/Kg
124-48-1	Dibromochloromethane	0.81	U	0.81	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.82	U	0.82	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.98	U	0.98	4.70	ug/Kg
108-90-7	Chlorobenzene	0.85	U	0.85	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.30	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	4.70	ug/Kg
100-42-5	Styrene	0.66	U	0.66	4.70	ug/Kg
75-25-2	Bromoform	0.80	U	0.80	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.73	U	0.73	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.0		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		17 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	327000	7.701			
540-36-3	1,4-Difluorobenzene	592000	8.609			
3114-55-4	Chlorobenzene-d5	562000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	253000	13.34			

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	06/23/25
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	06/23/25
Client Sample ID:	PARK AVE -6	SDG No.:	Q2393
Lab Sample ID:	Q2393-12	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.7
Sample Wt/Vol:	6.11 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022800.D	1		06/24/25 16:16	VY062425

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\VY062425\
 Data File : VY022800.D
 Acq On : 24 Jun 2025 16:16
 Operator : SY/MD
 Sample : Q2393-12
 Misc : 6.11g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -6

Quant Time: Jun 25 01:28:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

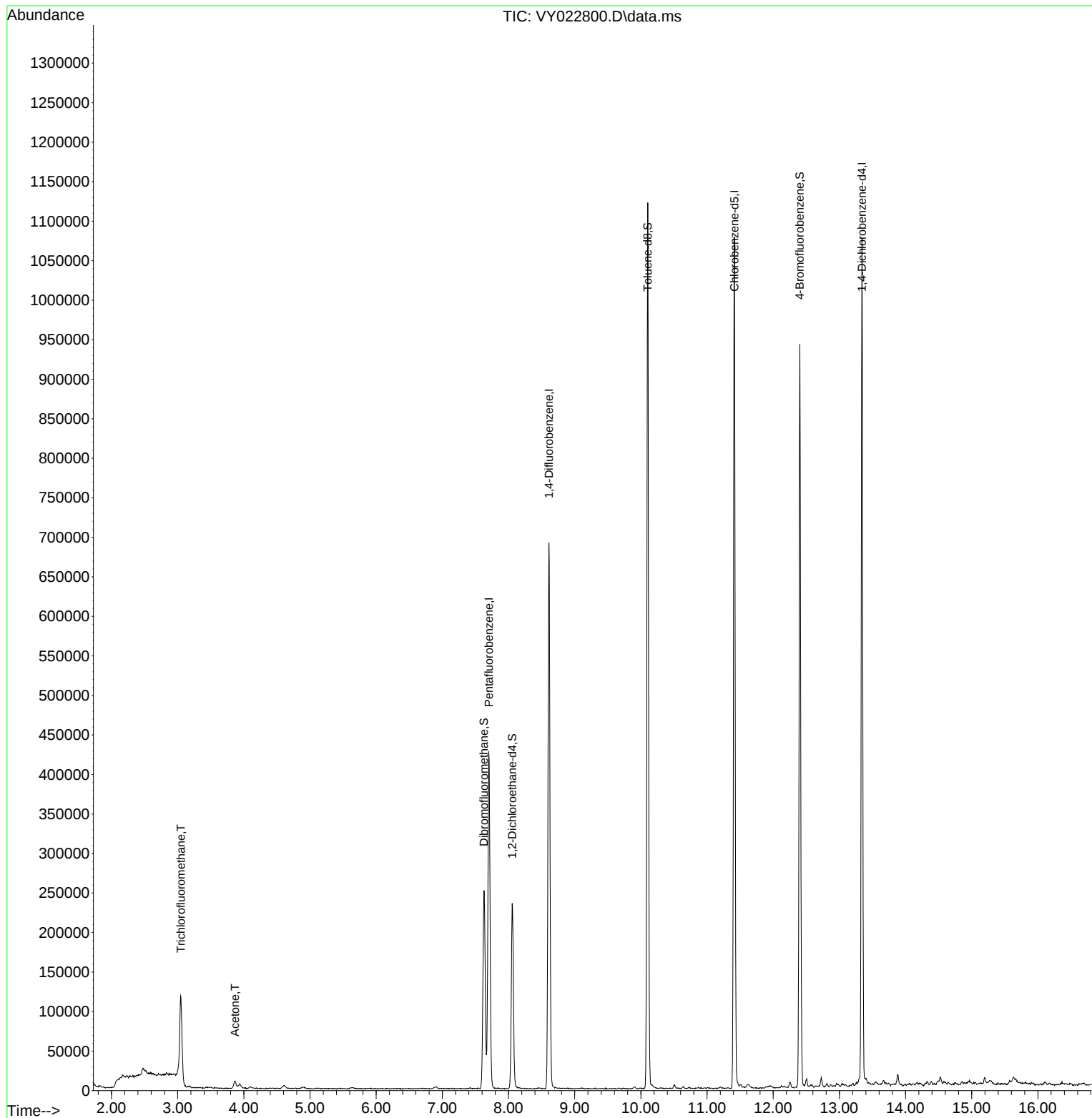
Internal Standards						
1) Pentafluorobenzene	7.701	168	326857	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.609	114	591695	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	562315	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	253297	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	182513	50.030	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 100.060%	
35) Dibromofluoromethane	7.628	113	180799	50.244	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 100.480%	
50) Toluene-d8	10.103	98	704656	49.349	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.700%	
62) 4-Bromofluorobenzene	12.401	95	248893	54.222	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 108.440%	
Target Compounds						Qvalue
7) Trichlorofluoromethane	3.049	101	110190	14.925	ug/l	94
16) Acetone	3.866	43	16416	23.808	ug/l	91

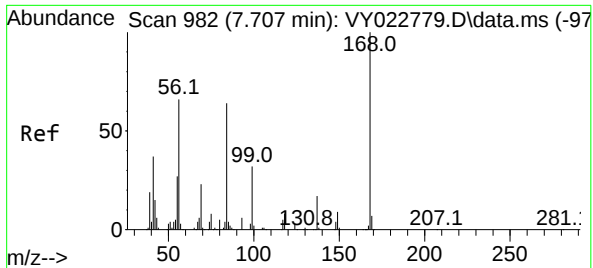
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022800.D
Acq On : 24 Jun 2025 16:16
Operator : SY/MD
Sample : Q2393-12
Misc : 6.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -6

Quant Time: Jun 25 01:28:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

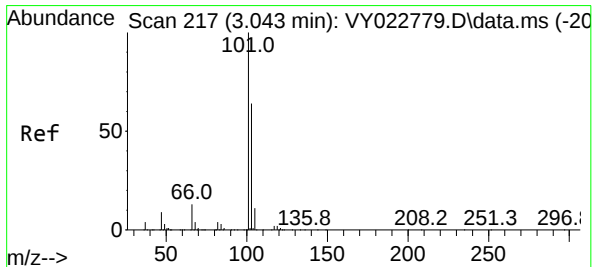
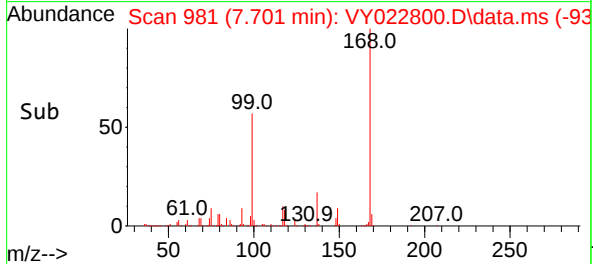
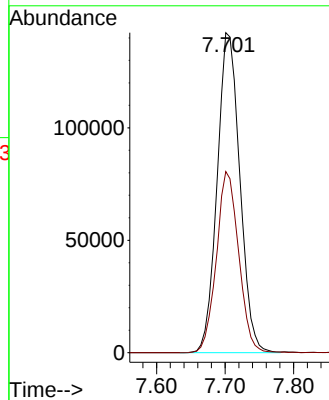
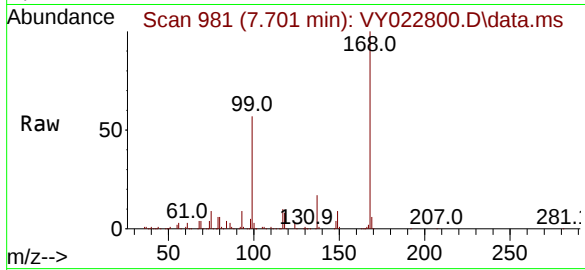




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY022800.D
Acq: 24 Jun 2025 16:16

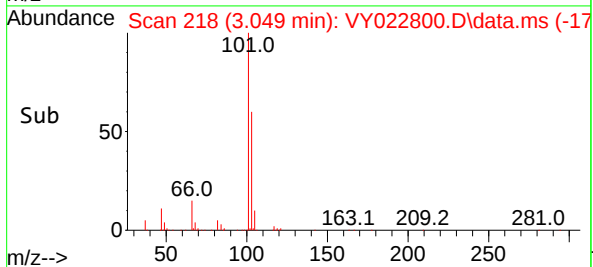
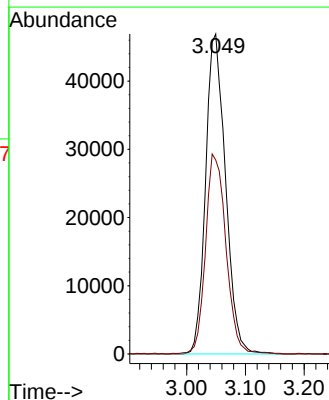
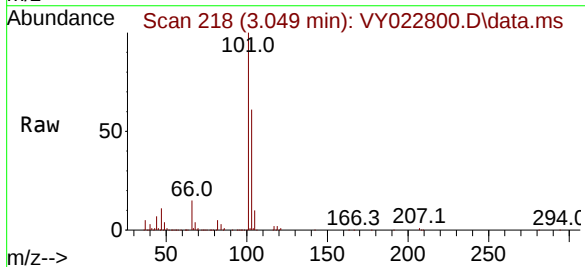
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -6

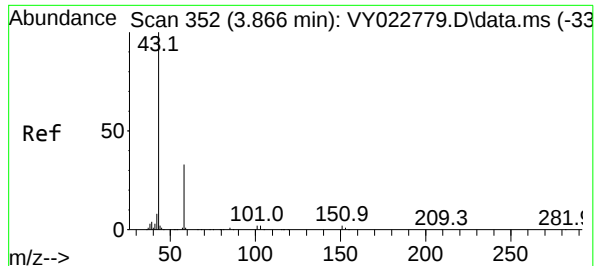
Tgt Ion:168 Resp: 326857
Ion Ratio Lower Upper
168 100
99 56.6 44.3 66.5



#7
Trichlorofluoromethane
Concen: 14.925 ug/l
RT: 3.049 min Scan# 218
Delta R.T. -0.006 min
Lab File: VY022800.D
Acq: 24 Jun 2025 16:16

Tgt Ion:101 Resp: 110190
Ion Ratio Lower Upper
101 100
103 60.4 52.2 78.2





#16

Acetone

Concen: 23.808 ug/l

RT: 3.866 min Scan# 352

Delta R.T. -0.012 min

Lab File: VY022800.D

Acq: 24 Jun 2025 16:16

Instrument :

MSVOA_Y

ClientSampleId :

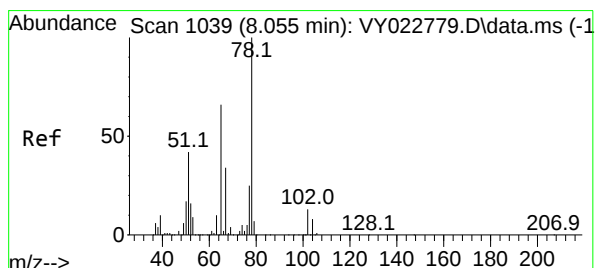
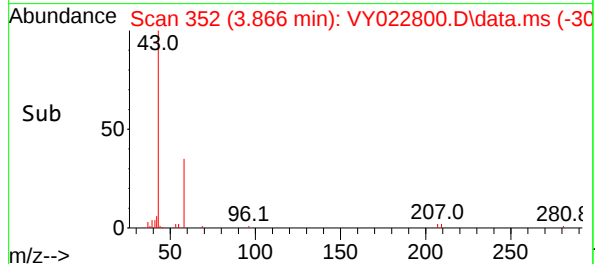
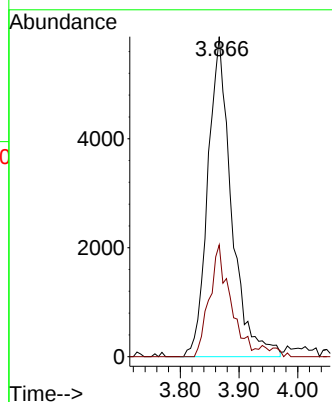
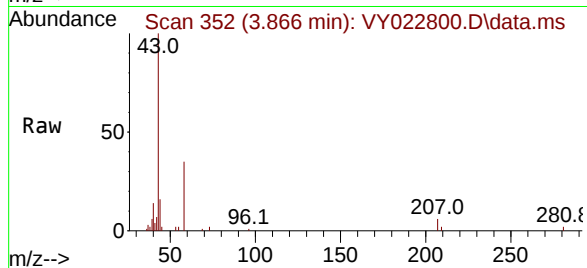
PARK AVE -6

Tgt Ion: 43 Resp: 16416

Ion Ratio Lower Upper

43 100

58 35.0 24.0 36.0



#33

1,2-Dichloroethane-d4

Concen: 50.030 ug/l

RT: 8.055 min Scan# 1039

Delta R.T. -0.012 min

Lab File: VY022800.D

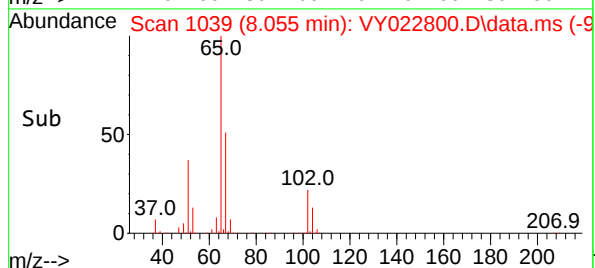
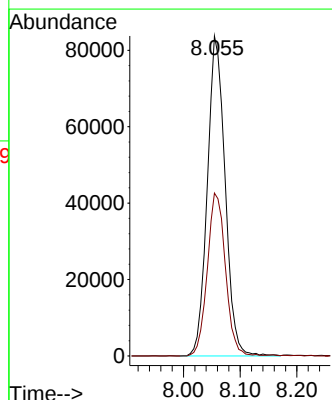
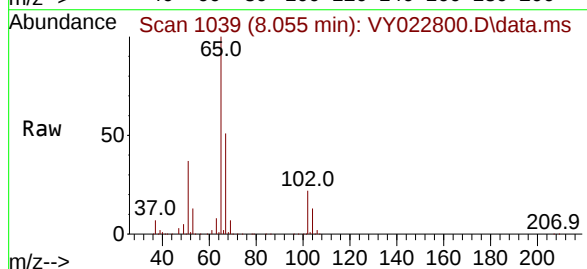
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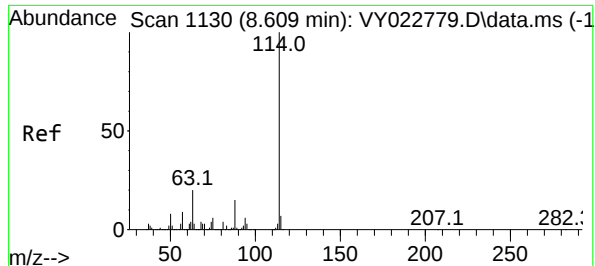
Tgt Ion: 65 Resp: 182513

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022800.D

Acq: 24 Jun 2025 16:16

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -6

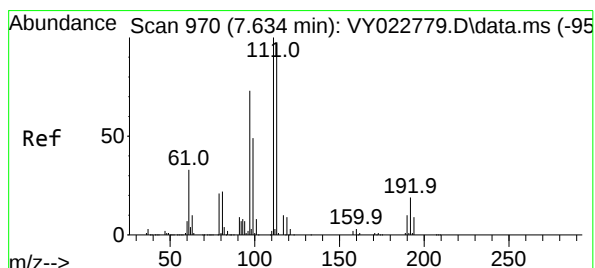
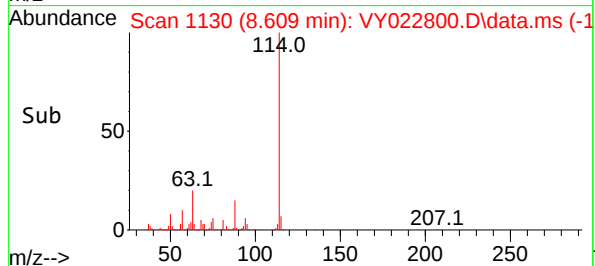
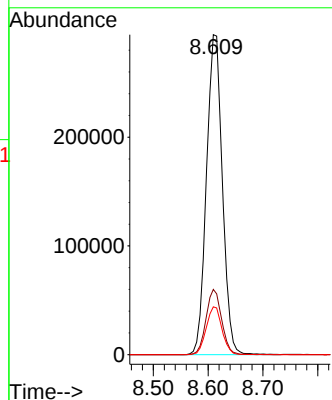
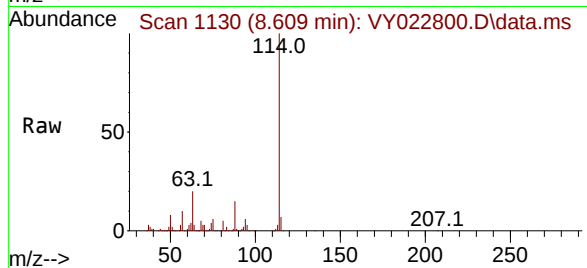
Tgt Ion:114 Resp: 591695

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

88 14.9 0.0 27.8



#35

Dibromofluoromethane

Concen: 50.244 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.012 min

Lab File: VY022800.D

Acq: 24 Jun 2025 16:16

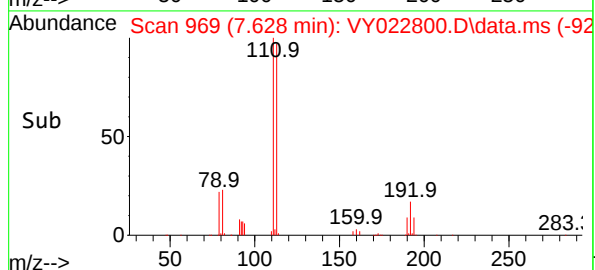
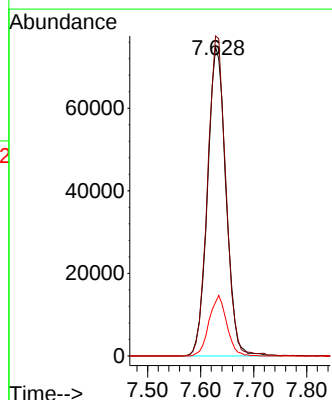
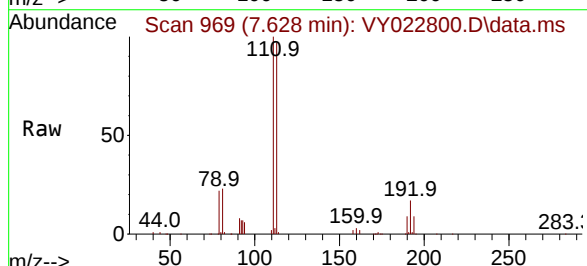
Tgt Ion:113 Resp: 180799

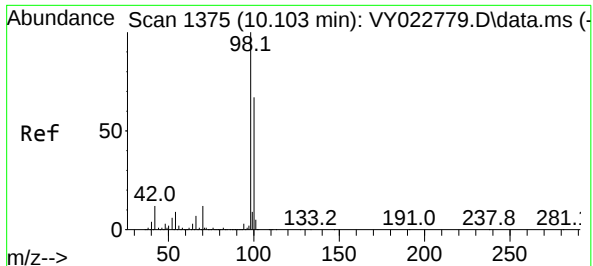
Ion Ratio Lower Upper

113 100

111 102.4 81.1 121.7

192 18.8 14.2 21.2

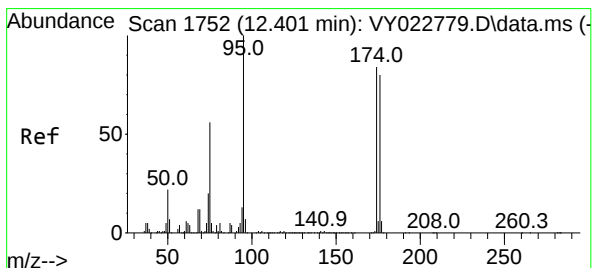
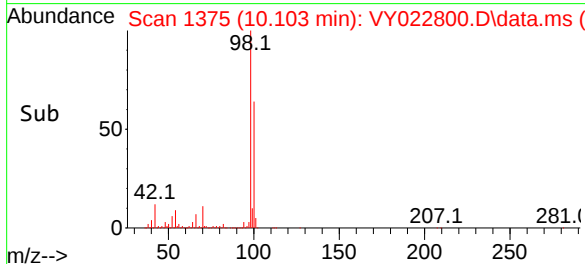
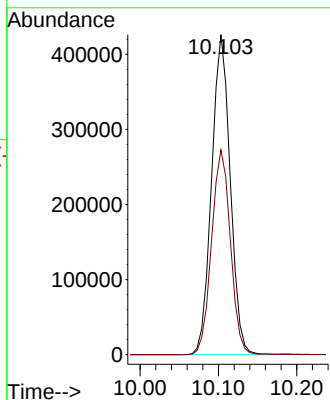
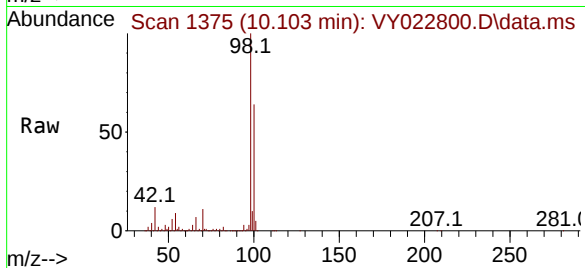




#50
Toluene-d8
Concen: 49.349 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022800.D
Acq: 24 Jun 2025 16:16

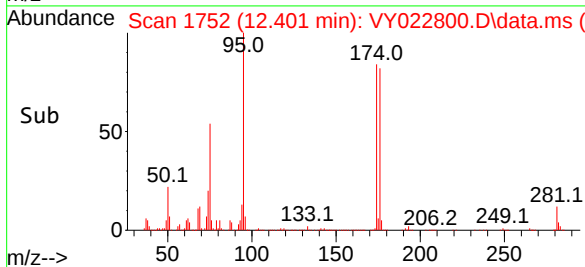
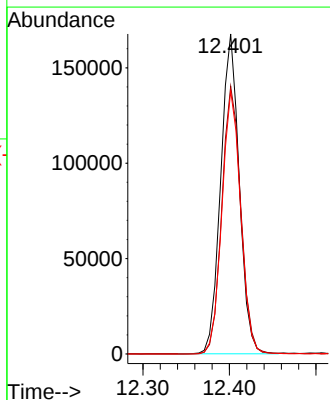
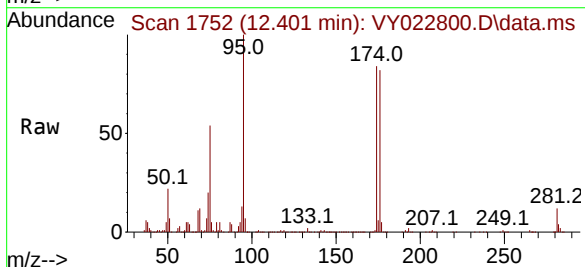
Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -6

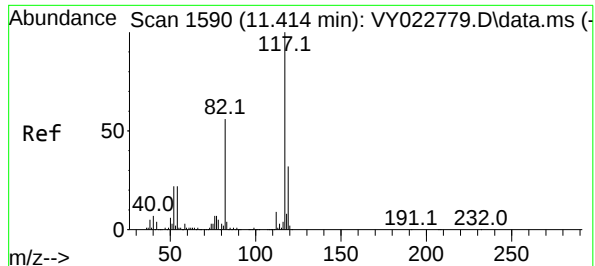
Tgt Ion: 98 Resp: 704656
Ion Ratio Lower Upper
98 100
100 64.8 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 54.222 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022800.D
Acq: 24 Jun 2025 16:16

Tgt Ion: 95 Resp: 248893
Ion Ratio Lower Upper
95 100
174 85.9 0.0 170.0
176 83.3 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022800.D

Acq: 24 Jun 2025 16:16

Instrument :

MSVOA_Y

ClientSampleId :

PARK AVE -6

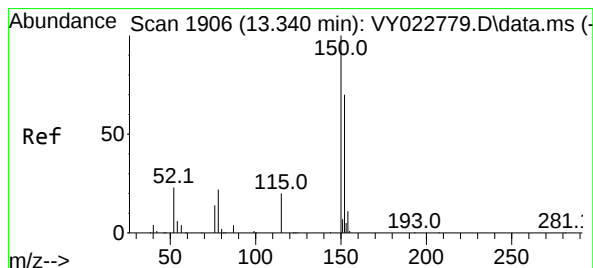
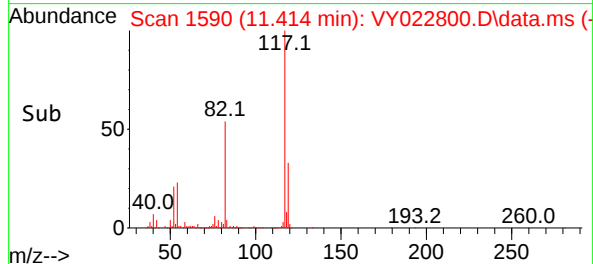
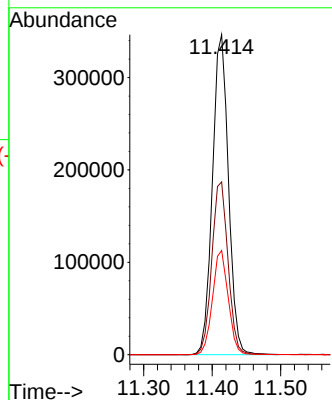
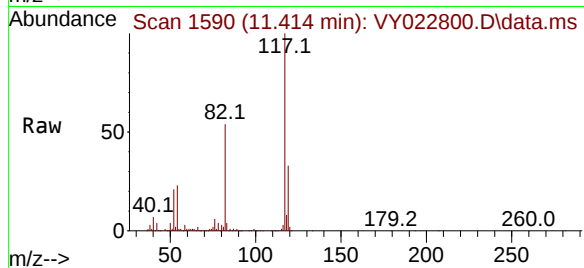
Tgt Ion:117 Resp: 562315

Ion Ratio Lower Upper

117 100

82 54.0 44.6 66.8

119 32.5 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY022800.D

Acq: 24 Jun 2025 16:16

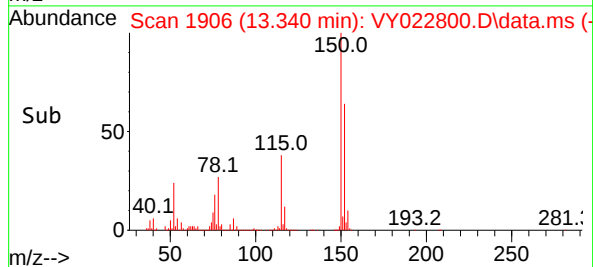
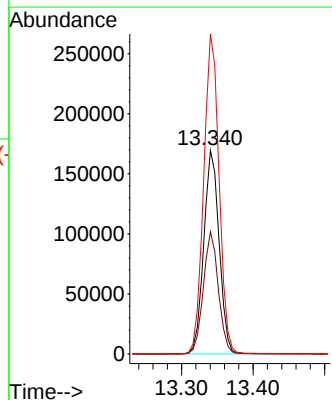
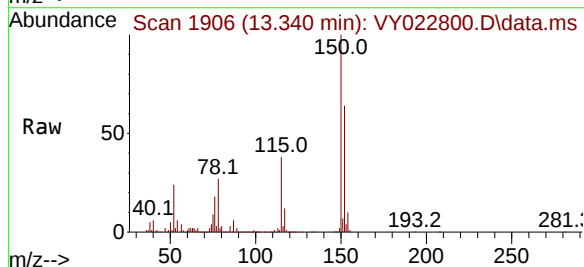
Tgt Ion:152 Resp: 253297

Ion Ratio Lower Upper

152 100

115 58.6 28.9 86.7

150 157.5 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022800.D
 Acq On : 24 Jun 2025 16:16
 Operator : SY/MD
 Sample : Q2393-12
 Misc : 6.11g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PARK AVE -6

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Title : SW846 8260

Signal : TIC: VY022800.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.111	51	64	65	rBV3	10663	36735	1.95%	0.342%
2	3.043	207	217	228	rVB	114176	325574	17.31%	3.030%
3	3.866	343	352	359	rBV	9378	26436	1.41%	0.246%
4	7.628	960	969	975	rBV	250363	606536	32.24%	5.644%
5	7.701	975	981	994	rVB	426339	976201	51.89%	9.084%
6	8.055	1028	1039	1050	rBV	234869	526048	27.96%	4.895%
7	8.609	1121	1130	1144	rBV	690882	1384929	73.62%	12.888%
8	10.103	1366	1375	1383	rBV	1121366	1881191	100.00%	17.506%
9	11.414	1582	1590	1601	rBV	1077429	1774573	94.33%	16.514%
10	12.401	1744	1752	1761	rBV2	940203	1551185	82.46%	14.435%
11	12.725	1799	1805	1812	rVB6	12206	20985	1.12%	0.195%
12	13.340	1894	1906	1913	rBV	1069435	1613002	85.74%	15.010%
13	13.883	1990	1995	2002	rVB2	12765	22493	1.20%	0.209%

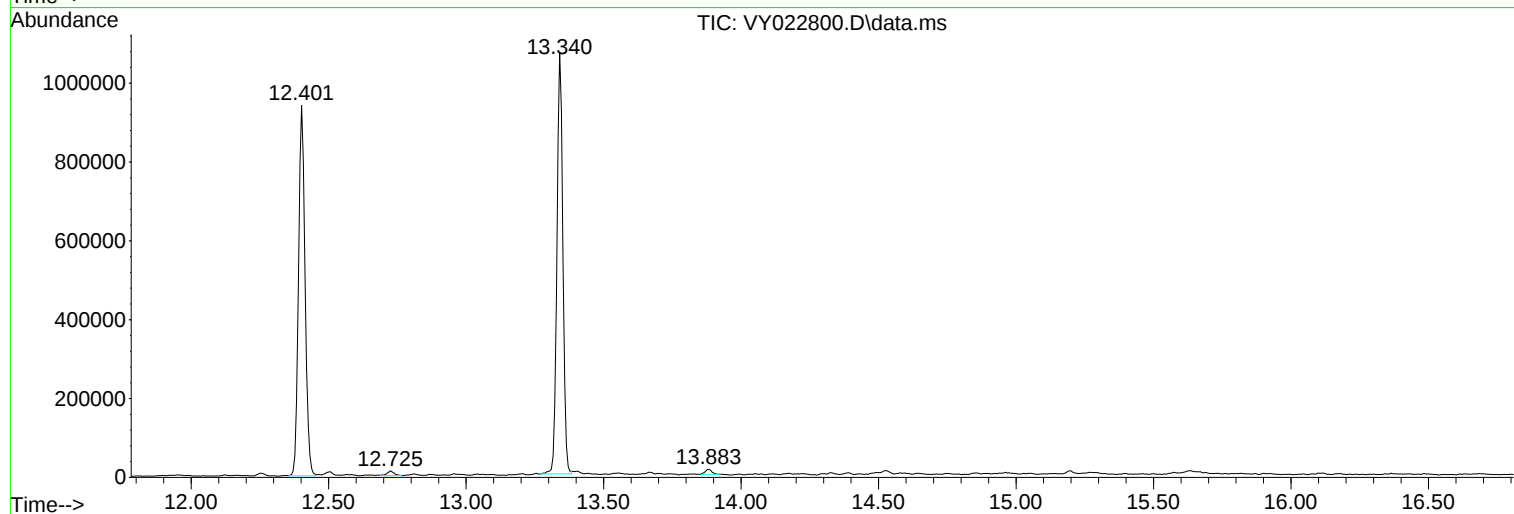
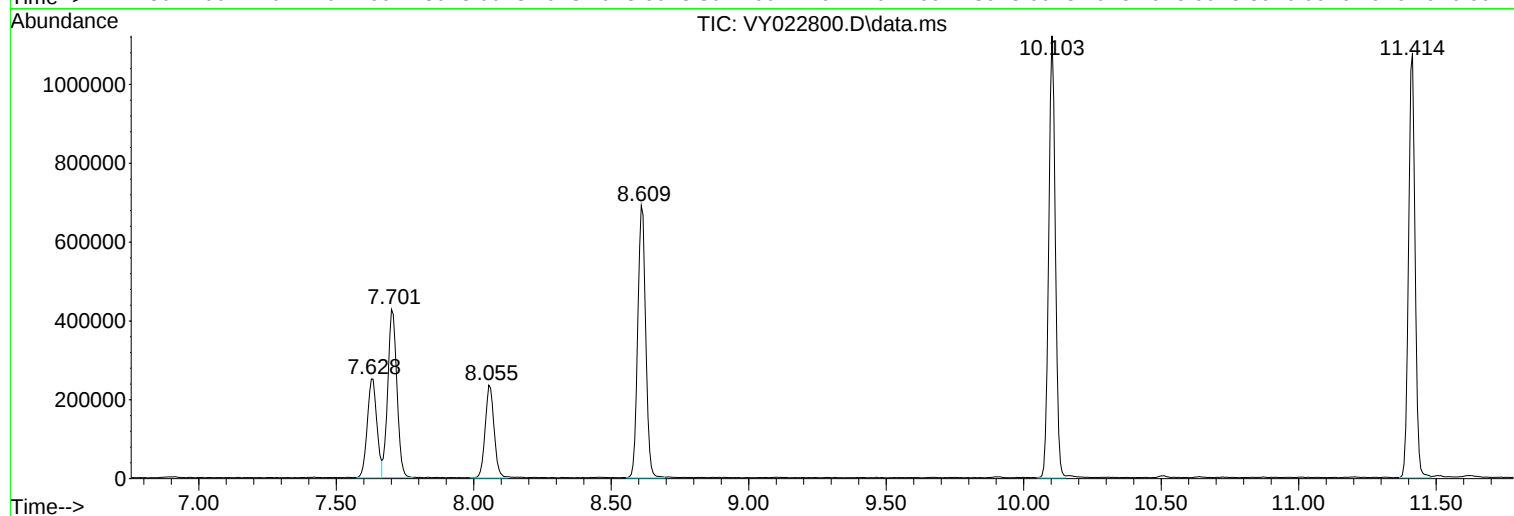
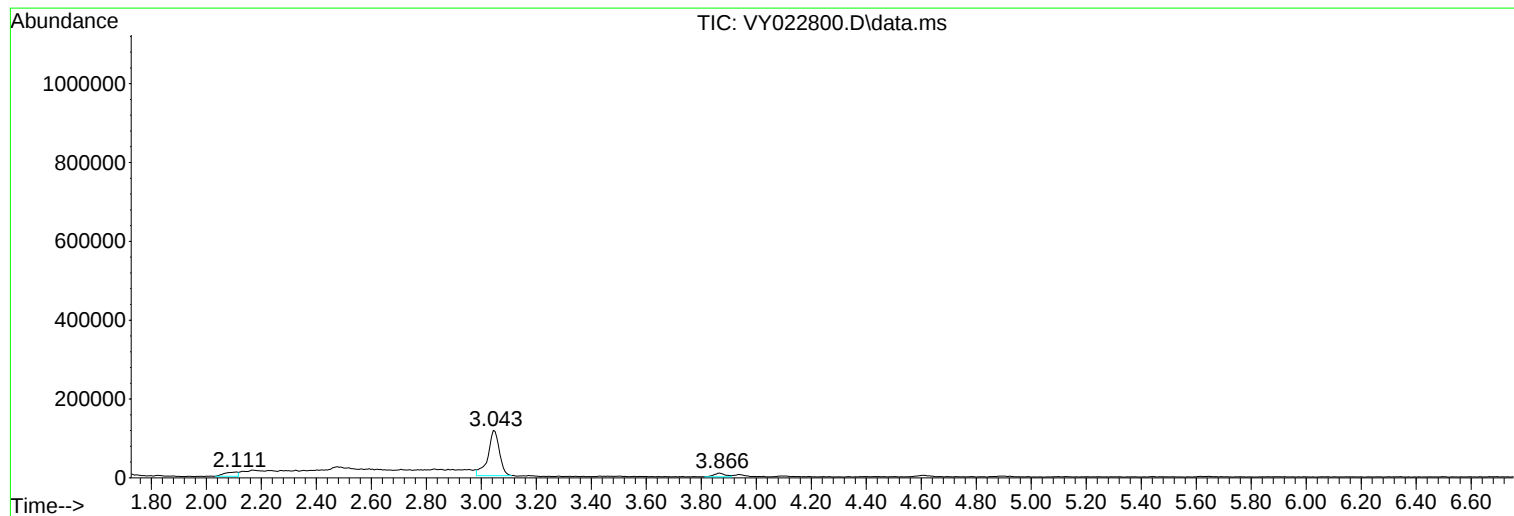
Sum of corrected areas: 10745888

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022800.D
Acq On : 24 Jun 2025 16:16
Operator : SY/MD
Sample : Q2393-12
Misc : 6.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -6

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022800.D
Acq On : 24 Jun 2025 16:16
Operator : SY/MD
Sample : Q2393-12
Misc : 6.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -6

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

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022800.D
Acq On : 24 Jun 2025 16:16
Operator : SY/MD
Sample : Q2393-12
Misc : 6.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PARK AVE -6

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

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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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: CHEMTECH Contract: UNIO02
 Lab Code: CHEM Case No.: Q2393 SAS No.: Q2393 SDG No.: Q2393
 Instrument ID: MSVOA_Y Calibration Date(s): 06/23/2025 06/23/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 13:38 15:31
 GC Column: RXI-624 ID: 0.25 (mm)

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

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: UNIO02
 Lab Code: CHEM Case No.: Q2393 SAS No.: Q2393 SDG No.: Q2393
 Instrument ID: MSVOA_Y Calibration Date(s): 06/23/2025 06/23/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 13:38 15:31
 GC Column: RXI-624 ID: 0.25 (mm)

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

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

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

Calibration Files

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

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.424	0.456	0.474	0.424	0.404	0.384	0.428	7.74
3) P	Chloromethane	0.837	0.921	0.865	0.793	0.758	0.724	0.816	8.89
4) C	Vinyl Chloride	0.934	1.099	1.091	1.045	0.993	0.958	1.020	6.78#
5) T	Bromomethane	0.784	0.885	0.854	0.771	0.760	0.756	0.802	6.77
6) T	Chloroethane	0.649	0.736	0.722	0.694	0.673	0.640	0.686	5.64
7) T	Trichlorofluor...	0.999	1.180	1.219	1.166	1.127	1.085	1.129	6.96
8) T	Diethyl Ether	0.260	0.289	0.287	0.285	0.281	0.271	0.279	3.93
9) T	1,1,2-Trichlor...	0.508	0.560	0.547	0.515	0.492	0.474	0.516	6.35
10) T	Methyl Iodide	0.451	0.542	0.567	0.626	0.611	0.575	0.562	11.12
11) T	Tert butyl alc...	0.034	0.037	0.038	0.038	0.039	0.036	0.037	4.97
12) CM	1,1-Dichloroet...	0.478	0.539	0.524	0.514	0.500	0.483	0.506	4.68#
13) T	Acrolein	0.052	0.051	0.053	0.049	0.049	0.047	0.050	4.22
14) T	Allyl chloride	0.687	0.803	0.805	0.797	0.790	0.789	0.778	5.80
15) T	Acrylonitrile	0.105	0.116	0.120	0.121	0.122	0.116	0.116	5.45
16) T	Acetone	0.117	0.124	0.114	0.095	0.096	0.087	0.105	13.91
17) T	Carbon Disulfide	1.516	1.705	1.731	1.667	1.625	1.566	1.635	5.06
18) T	Methyl Acetate	0.272	0.358	0.440	0.351	0.353	0.322	0.349	15.66
19) T	Methyl tert-bu...	1.173	1.398	1.396	1.435	1.460	1.405	1.378	7.50
20) T	Methylene Chlo...	0.840	0.777	0.664	0.590	0.578	0.548	0.666	17.74
21) T	trans-1,2-Dich...	0.521	0.604	0.597	0.592	0.581	0.575	0.578	5.19
22) T	Diisopropyl ether	1.460	1.762	1.779	1.789	1.804	1.778	1.729	7.65
23) T	Vinyl Acetate	0.830	0.942	0.920	1.010	1.024	1.003	0.955	7.72
24) P	1,1-Dichloroet...	0.949	1.075	1.079	1.077	1.055	1.030	1.044	4.83
25) T	2-Butanone	0.145	0.160	0.160	0.153	0.156	0.147	0.154	4.37
26) T	2,2-Dichloropr...	0.801	0.930	0.927	0.884	0.863	0.847	0.875	5.65
27) T	cis-1,2-Dichlo...	0.606	0.689	0.687	0.685	0.687	0.678	0.672	4.84
28) T	Bromochloromet...	0.437	0.431	0.437	0.459	0.443	0.427	0.439	2.59
29) T	Tetrahydrofuran	0.087	0.095	0.098	0.102	0.103	0.097	0.097	6.02
30) C	Chloroform	0.986	1.130	1.099	1.096	1.084	1.059	1.076	4.60#
31) T	Cyclohexane	0.998	1.021	0.988	0.946	0.905	0.894	0.959	5.41
32) T	1,1,1-Trichlor...	0.847	0.945	0.973	0.950	0.939	0.923	0.929	4.68
33) S	1,2-Dichloroet...	0.568	0.550	0.557	0.559	0.571	0.545	0.558	1.77
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.306	0.297	0.295	0.304	0.314	0.308	0.304	2.31
36) T	1,1-Dichloropr...	0.420	0.473	0.472	0.469	0.468	0.465	0.461	4.42
37) T	Ethyl Acetate	0.181	0.198	0.198	0.206	0.210	0.200	0.199	5.09
38) T	Carbon Tetrach...	0.439	0.498	0.507	0.491	0.492	0.491	0.486	4.98
39) T	Methylcyclohexane	0.543	0.589	0.610	0.618	0.608	0.611	0.596	4.65
40) TM	Benzene	1.248	1.433	1.451	1.464	1.467	1.440	1.417	5.92
41) T	Methacrylonitrile	0.118	0.137	0.129	0.120	0.108	0.123	0.122	8.16
42) TM	1,2-Dichloroet...	0.335	0.397	0.402	0.400	0.404	0.392	0.388	6.79
43) T	Isopropyl Acetate	0.348	0.408	0.424	0.436	0.442	0.424	0.413	8.29
44) TM	Trichloroethene	0.305	0.364	0.382	0.372	0.360	0.350	0.356	7.60
45) C	1,2-Dichloropr...	0.289	0.339	0.345	0.339	0.341	0.337	0.332	6.35#
46) T	Dibromomethane	0.169	0.193	0.192	0.191	0.194	0.190	0.188	4.94
47) T	Bromodichlorom...	0.422	0.495	0.496	0.498	0.504	0.498	0.485	6.40
48) T	Methyl methacr...	0.151	0.193	0.208	0.214	0.219	0.207	0.199	12.57
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	8.51
50) S	Toluene-d8	1.182	1.148	1.186	1.215	1.262	1.247	1.207	3.57
51) T	4-Methyl-2-Pen...	0.168	0.201	0.215	0.226	0.230	0.221	0.210	10.86
52) CM	Toluene	0.747	0.873	0.908	0.926	0.955	0.954	0.894	8.76#
53) T	t-1,3-Dichloro...	0.355	0.430	0.438	0.451	0.473	0.473	0.437	10.03
54) T	cis-1,3-Dichlo...	0.412	0.503	0.523	0.524	0.540	0.538	0.506	9.55
55) T	1,1,2-Trichlor...	0.207	0.249	0.249	0.253	0.255	0.250	0.244	7.40
56) T	Ethyl methacry...	0.258	0.296	0.315	0.354	0.372	0.374	0.328	14.17

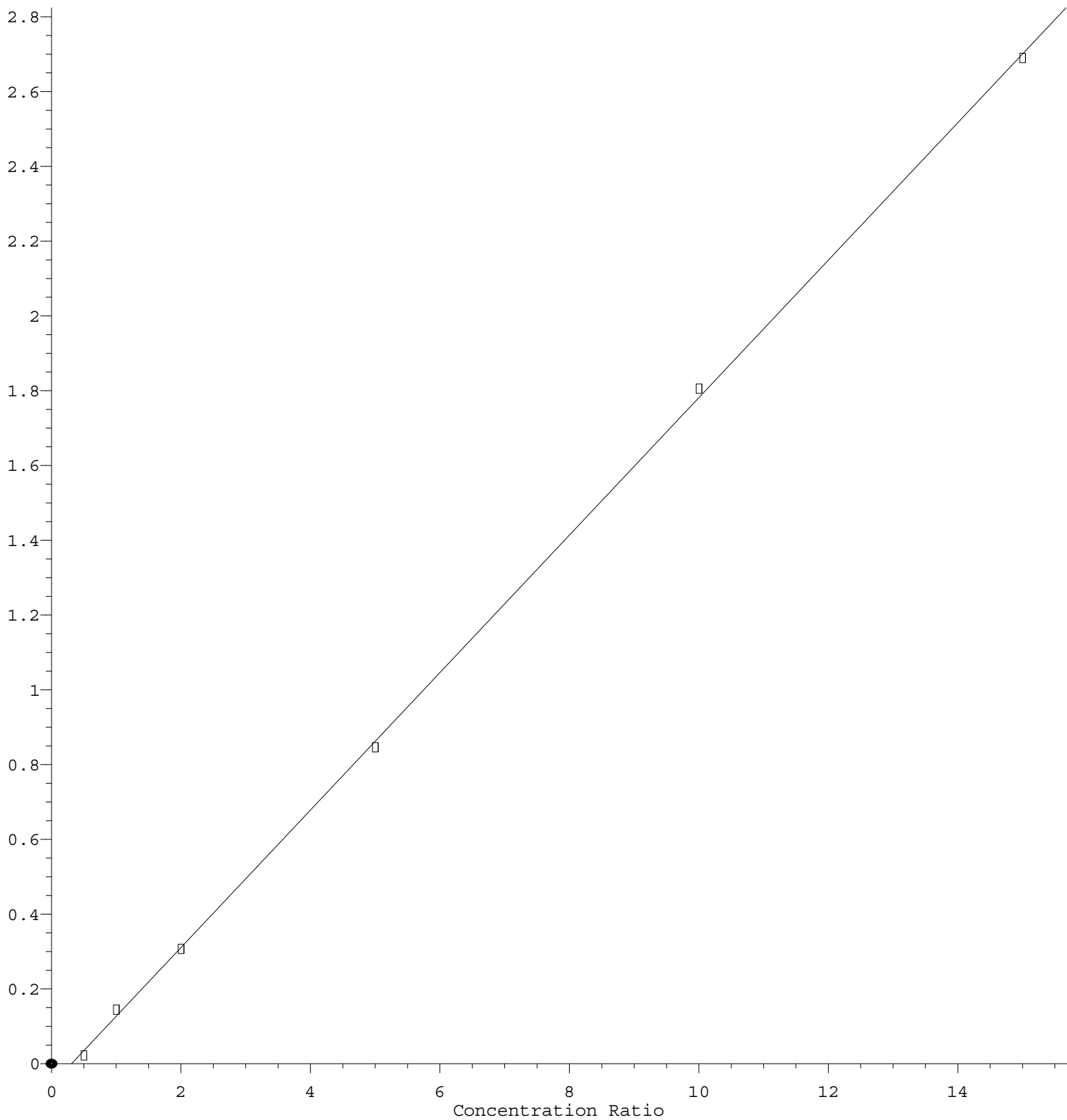
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y062325S.M

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

(#) = Out of Range

2-Chloroethyl Vinyl ether

Response Ratio



Response = $1.839 \times 10^{-1} \times \text{Amt} - 5.758 \times 10^{-2}$
Coef of Det (r^2) = 0.999746 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y062325S.M
Calibration Table Last Updated: Tue Jun 24 08:29:52 2025

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

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

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

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

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

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

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

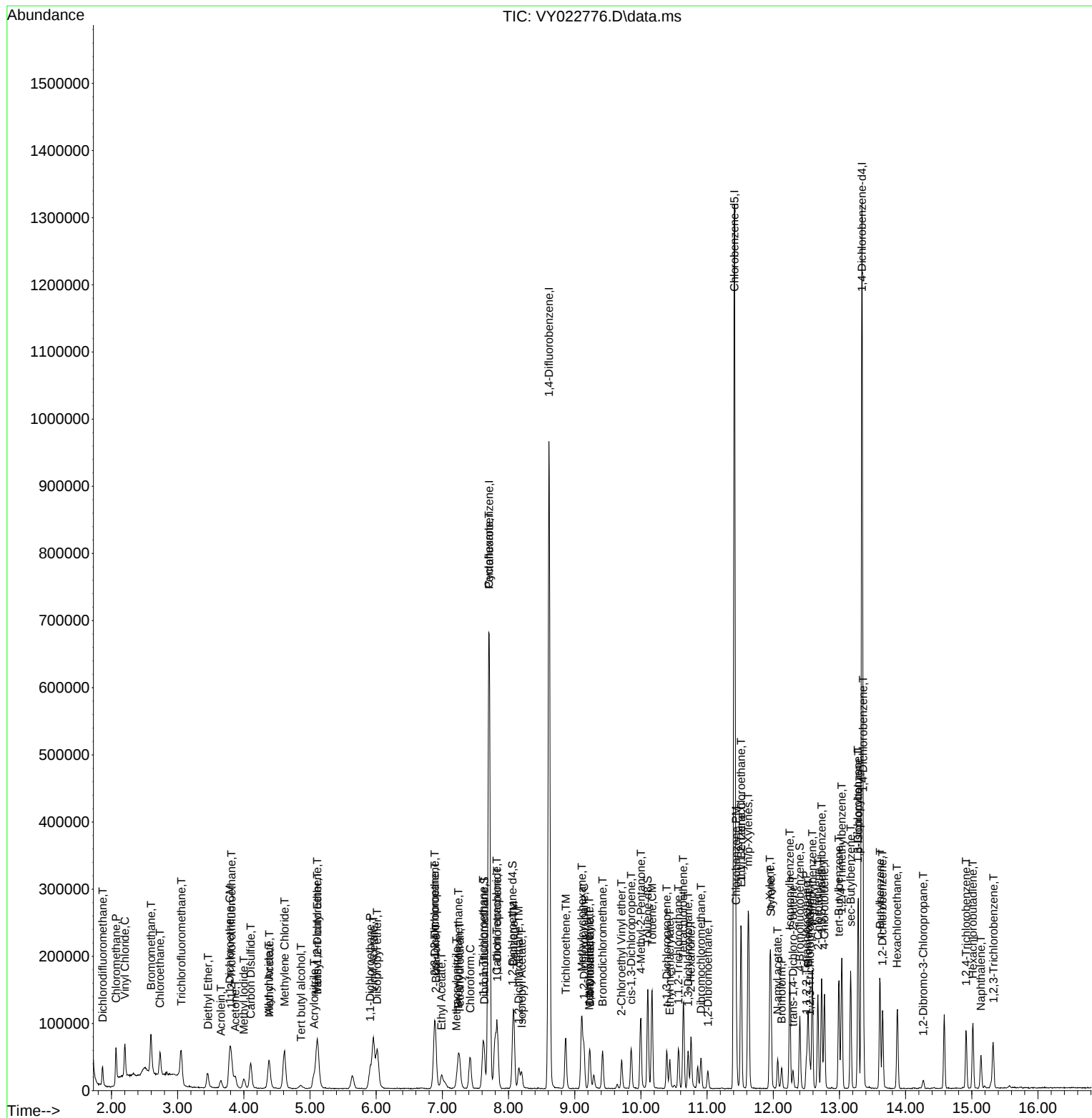
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022776.D
Acq On : 23 Jun 2025 13:38
Operator : SY/MD
Sample : VSTDIC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

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

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

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

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

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

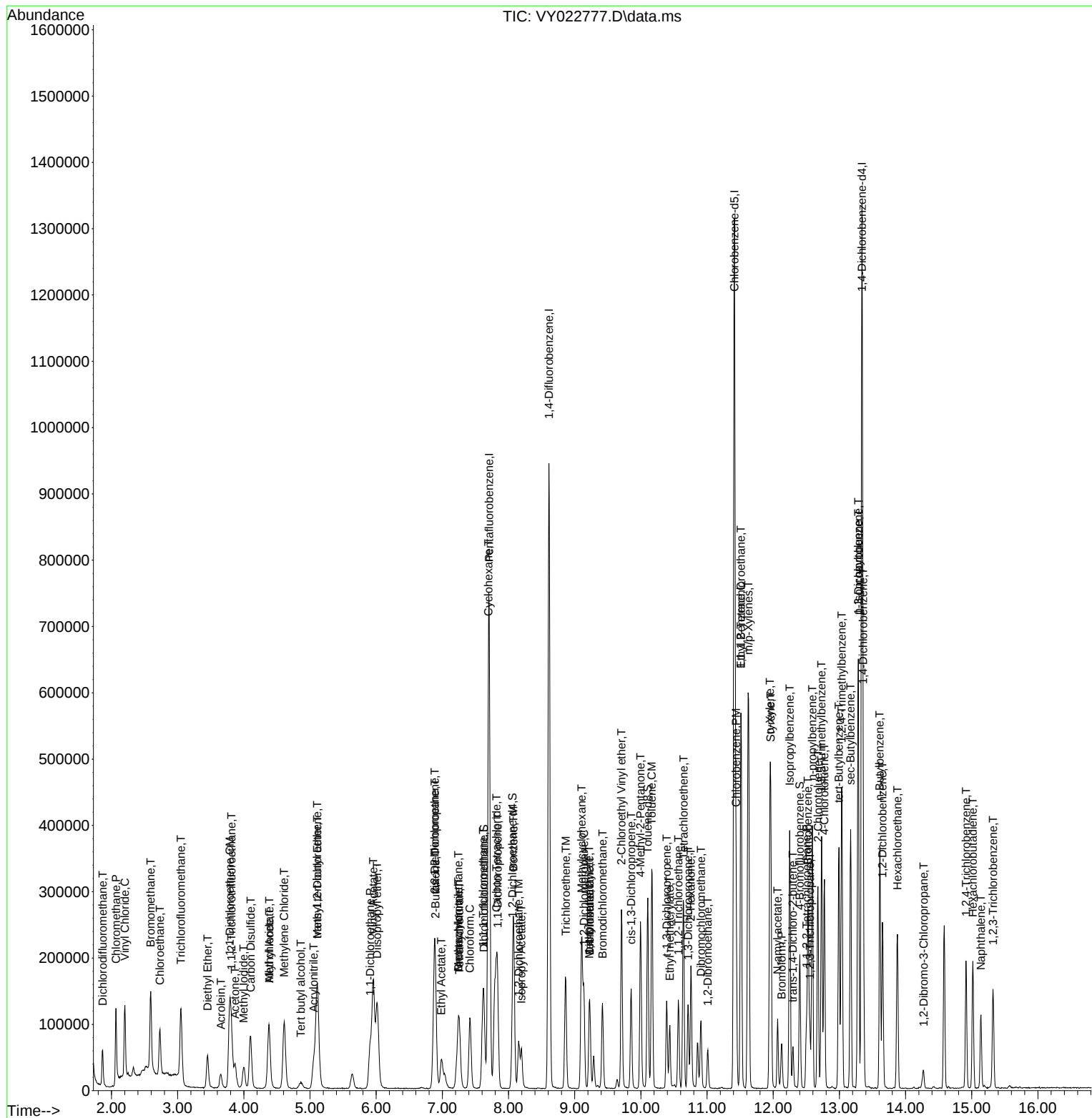
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Data File : VY022777.D
Acq On : 23 Jun 2025 14:00
Operator : SY/MD
Sample : VSTDIC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

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

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

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025

Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 02:51:45 2025

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

Quant Title : SW846 8260

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

Response via : Initial Calibration

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

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

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

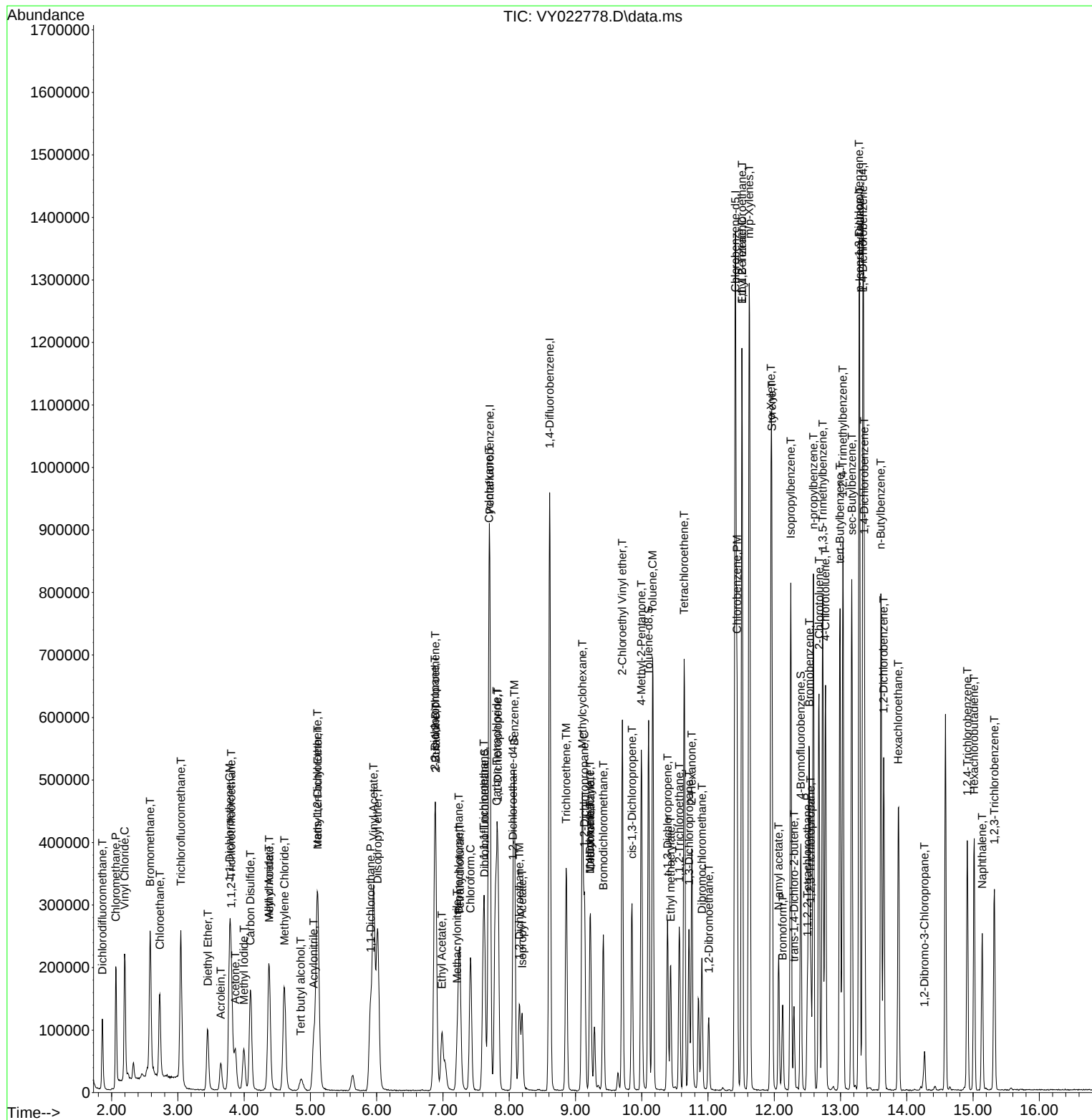
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Data File : VY022778.D
Acq On : 23 Jun 2025 14:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

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

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

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	466305	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	785509	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	682333	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	344728	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.055	65	260449	50.044	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 100.080%	
35) Dibromofluoromethane	7.634	113	238601	49.947	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 99.900%	
50) Toluene-d8	10.103	98	954176	50.336	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.680%	
62) 4-Bromofluorobenzene	12.401	95	302230	49.596	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 99.200%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	197658	49.571	ug/l	100
3) Chloromethane	2.062	50	369888	48.580	ug/l	100
4) Vinyl Chloride	2.196	62	487333	51.231	ug/l	100
5) Bromomethane	2.586	94	359349	48.052	ug/l	100
6) Chloroethane	2.726	64	323583	50.606	ug/l	100
7) Trichlorofluoromethane	3.043	101	543608	51.610	ug/l	100
8) Diethyl Ether	3.452	74	132997	51.123	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.805	101	240341	49.930	ug/l	100
10) Methyl Iodide	3.994	142	292108	55.737	ug/l	100
11) Tert butyl alcohol	4.860	59	89018	257.234	ug/l	100
12) 1,1-Dichloroethene	3.781	96	239818	50.810	ug/l	100
13) Acrolein	3.647	56	115313	245.735	ug/l	100
14) Allyl chloride	4.378	41	371698	51.200	ug/l	100
15) Acrylonitrile	5.049	53	281372	259.229	ug/l	100
16) Acetone	3.866	43	222401	226.091	ug/l	100
17) Carbon Disulfide	4.098	76	777454	50.988	ug/l	100
18) Methyl Acetate	4.378	43	163588	50.217	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	669314	52.080	ug/l	100
20) Methylene Chloride	4.604	84	275283	44.313	ug/l	100
21) trans-1,2-Dichloroethene	5.104	96	276104	51.184	ug/l	100
22) Diisopropyl ether	6.018	45	834245	51.744	ug/l	100
23) Vinyl Acetate	5.951	43	2354219	264.392	ug/l	100
24) 1,1-Dichloroethane	5.909	63	502277	51.577	ug/l	100
25) 2-Butanone	6.890	43	357225	249.517	ug/l	100
26) 2,2-Dichloropropane	6.878	77	412194	50.494	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	319602	50.988	ug/l	100
28) Bromochloromethane	7.244	49	214101	52.294	ug/l	100
29) Tetrahydrofuran	7.256	42	237439	262.648	ug/l	100
30) Chloroform	7.421	83	511015	50.947	ug/l	100
31) Cyclohexane	7.695	56	441072	49.341	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	442929	51.101	ug/l	100
36) 1,1-Dichloropropene	7.829	75	368198	50.850	ug/l	100
37) Ethyl Acetate	6.982	43	161593	51.717	ug/l	100
38) Carbon Tetrachloride	7.817	117	385426	50.447	ug/l	100
39) Methylcyclohexane	9.103	83	485179	51.778	ug/l	100
40) Benzene	8.073	78	1150210	51.666	ug/l	100

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

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

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

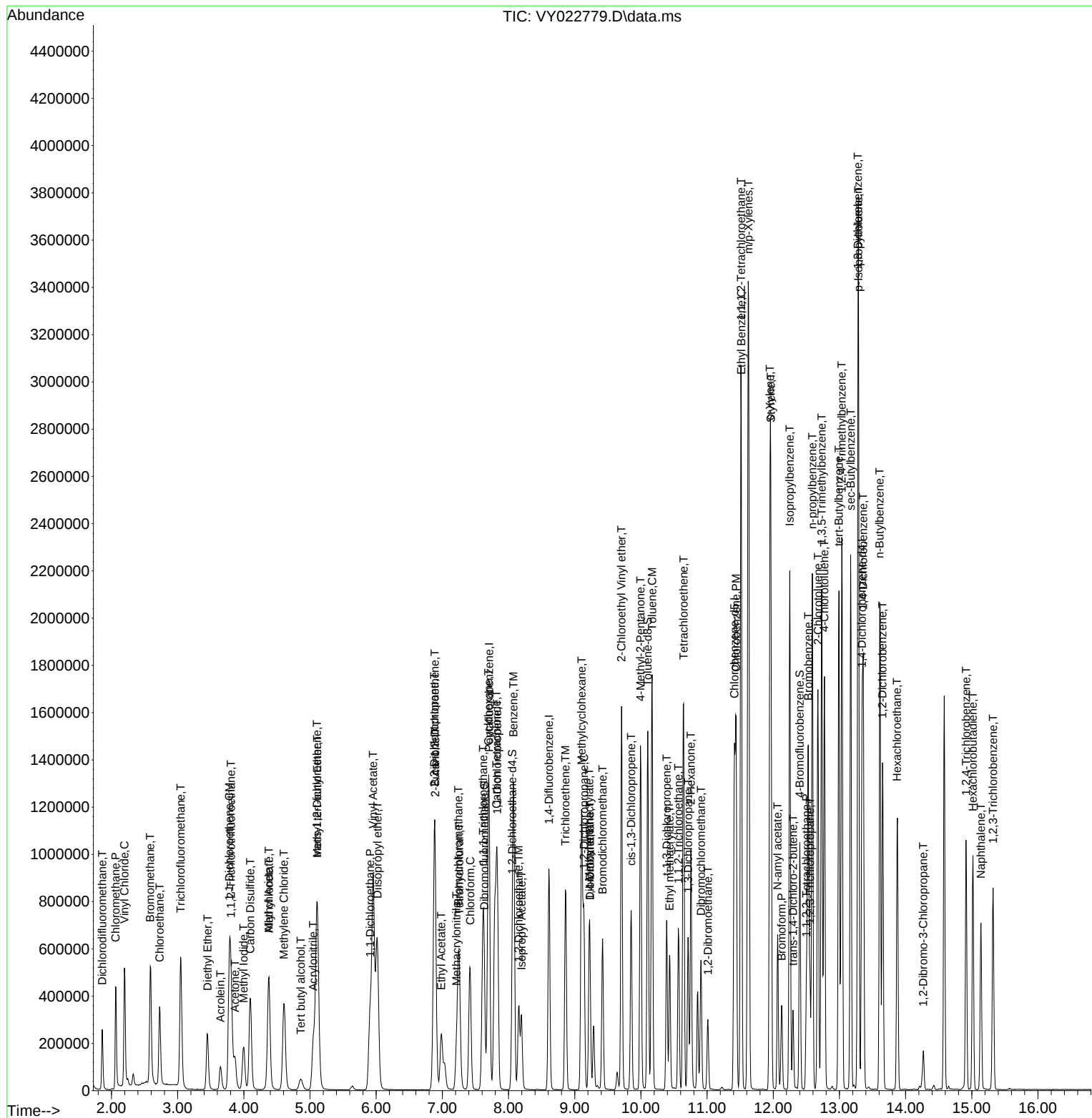
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022779.D
Acq On : 23 Jun 2025 14:46
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

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

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

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

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

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

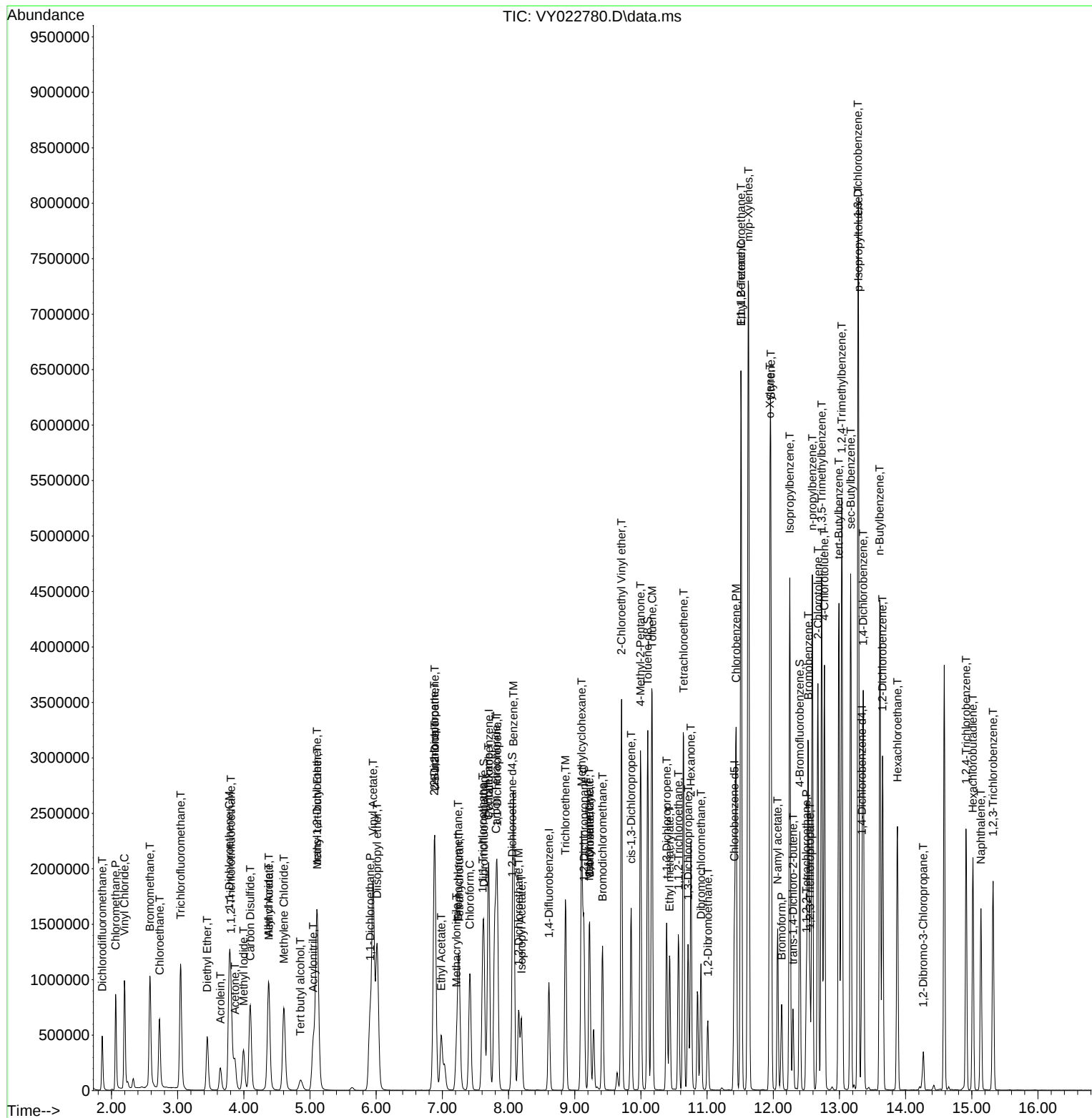
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022780.D
Acq On : 23 Jun 2025 15:08
Operator : SY/MD
Sample : VSTDIC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

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

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

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	487197	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	805416	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	724825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	371200	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	796965	146.565	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 293.140%#			
35) Dibromofluoromethane	7.628	113	745134	152.126	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 304.260%#			
50) Toluene-d8	10.103	98	3013418	155.039	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 310.080%#			
62) 4-Bromofluorobenzene	12.402	95	1016821	162.737	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 325.480%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.861	85	561426	134.762	ug/l	98
3) Chloromethane	2.062	50	1057912	132.984	ug/l	98
4) Vinyl Chloride	2.196	62	1399862	140.850	ug/l	99
5) Bromomethane	2.574	94	1105489	141.487	ug/l	98
6) Chloroethane	2.720	64	936104	140.121	ug/l	99
7) Trichlorofluoromethane	3.043	101	1586258	144.141	ug/l	100
8) Diethyl Ether	3.446	74	396737	145.964	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.799	101	693105	137.817	ug/l	99
10) Methyl Iodide	3.995	142	840407	153.482	ug/l	100
11) Tert butyl alcohol	4.854	59	266185	736.208	ug/l	99
12) 1,1-Dichloroethene	3.775	96	705539	143.072	ug/l	99
13) Acrolein	3.647	56	345938	705.591	ug/l	99
14) Allyl chloride	4.373	41	1152496	151.943	ug/l	99
15) Acrylonitrile	5.049	53	846962	746.849	ug/l	99
16) Acetone	3.860	43	636155	618.978	ug/l	93
17) Carbon Disulfide	4.092	76	2289343	143.705	ug/l	99
18) Methyl Acetate	4.373	43	470360	138.195	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	2054163	152.981	ug/l	100
20) Methylene Chloride	4.604	84	800473	123.330	ug/l	98
21) trans-1,2-Dichloroethene	5.104	96	840284	149.092	ug/l	97
22) Diisopropyl ether	6.012	45	2598616	154.267	ug/l	99
23) Vinyl Acetate	5.952	43	7328920	787.783	ug/l	98
24) 1,1-Dichloroethane	5.903	63	1504725	147.888	ug/l	100
25) 2-Butanone	6.890	43	1071039	716.025	ug/l	98
26) 2,2-Dichloropropane	6.878	77	1237615	145.107	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	990315	151.215	ug/l	98
28) Bromochloromethane	7.238	49	623792	145.828	ug/l	98
29) Tetrahydrofuran	7.256	42	708429	750.039	ug/l	98
30) Chloroform	7.415	83	1547385	147.656	ug/l	97
31) Cyclohexane	7.695	56	1306948	139.933	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	1349504	149.016	ug/l	99
36) 1,1-Dichloropropene	7.829	75	1122908	151.246	ug/l	99
37) Ethyl Acetate	6.982	43	483616	150.953	ug/l	100
38) Carbon Tetrachloride	7.811	117	1186256	151.429	ug/l	98
39) Methylcyclohexane	9.103	83	1475329	153.554	ug/l	98
40) Benzene	8.073	78	3478622	152.393	ug/l	100

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

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

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

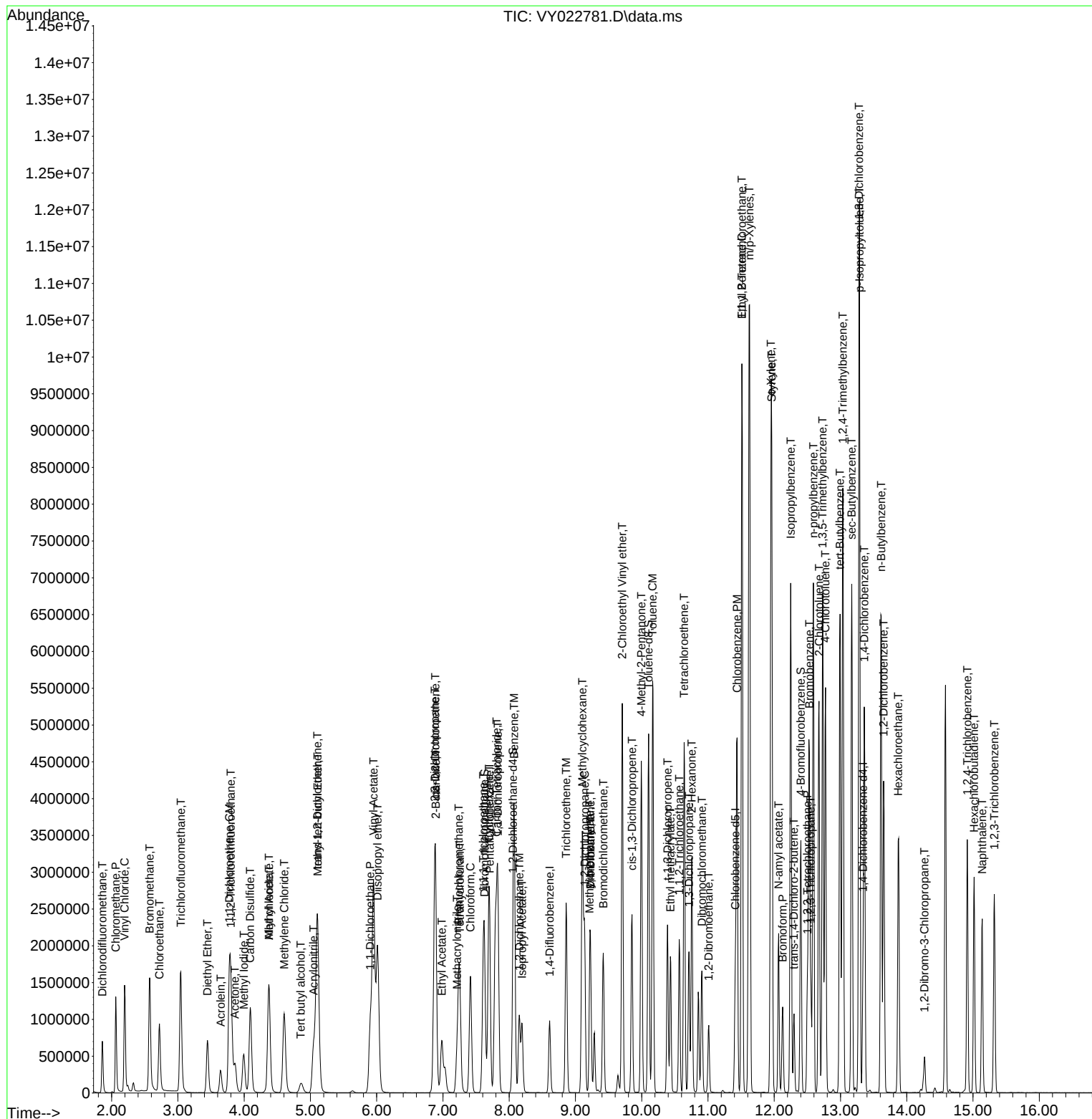
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY062325

Manual Integrations
 APPROVED

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

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

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

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY062325

Manual Integrations
 APPROVED

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

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	106081m	53.720	ug/l	
42) 1,2-Dichloroethane	8.152	62	307548	49.108	ug/l	100
43) Isopropyl Acetate	8.195	43	333219	49.983	ug/l	99
44) Trichloroethene	8.859	130	274874	47.904	ug/l	98
45) 1,2-Dichloropropane	9.140	63	259472	48.510	ug/l	100
46) Dibromomethane	9.231	93	145961	48.070	ug/l	98
47) Bromodichloromethane	9.420	83	382665	48.872	ug/l	99
48) Methyl methacrylate	9.219	41	164362	51.285	ug/l	99
49) 1,4-Dioxane	9.225	88	35276	983.335	ug/l	96
51) 4-Methyl-2-Pentanone	9.993	43	867628	256.103	ug/l	99
52) Toluene	10.170	92	704960	48.894	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	348211	49.428	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	404721	49.547	ug/l	99
55) 1,1,2-Trichloroethane	10.566	97	194151	49.380	ug/l	98
56) Ethyl methacrylate	10.432	69	270067	51.054	ug/l	99
57) 1,3-Dichloropropane	10.713	76	340025	49.568	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	680973	245.249	ug/l	100
59) 2-Hexanone	10.755	43	580425	251.999	ug/l	99
60) Dibromochloromethane	10.908	129	253700	49.955	ug/l	100
61) 1,2-Dibromoethane	11.011	107	181754	49.399	ug/l	99
64) Tetrachloroethene	10.646	164	303522	45.257	ug/l	98
65) Chlorobenzene	11.438	112	750243	48.095	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.511	131	253468	47.973	ug/l	99
67) Ethyl Benzene	11.517	91	1351655	49.316	ug/l	100
68) m/p-Xylenes	11.621	106	1043651	98.506	ug/l	100
69) o-Xylene	11.950	106	495462	49.631	ug/l	99
70) Styrene	11.962	104	834381	49.897	ug/l	99
71) Bromoform	12.127	173	142330	48.380	ug/l	99
73) Isopropylbenzene	12.249	105	1264391	47.581	ug/l	100
74) N-amyl acetate	12.066	43	299778	50.258	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.499	83	213316	49.808	ug/l	99
76) 1,2,3-Trichloropropane	12.548	75	171584m	46.775	ug/l	
77) Bromobenzene	12.529	156	287890	47.796	ug/l	100
78) n-propylbenzene	12.590	91	1543476	48.108	ug/l	100
79) 2-Chlorotoluene	12.676	91	871527	48.080	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	1052077	49.044	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	66143	45.554	ug/l	99
82) 4-Chlorotoluene	12.773	91	919177	48.276	ug/l	99
83) tert-Butylbenzene	12.993	119	917192	48.481	ug/l	99
84) 1,2,4-Trimethylbenzene	13.035	105	1058356	49.278	ug/l	99
85) sec-Butylbenzene	13.170	105	1377847	48.405	ug/l	100
86) p-Isopropyltoluene	13.285	119	1157677	48.873	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	584110	48.286	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	574913	47.844	ug/l	100
89) n-Butylbenzene	13.615	91	1083397	48.623	ug/l	100
90) Hexachloroethane	13.877	117	228507	48.434	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	512081	48.036	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	35693	49.145	ug/l	99
93) 1,2,4-Trichlorobenzene	14.913	180	293980	48.842	ug/l	99
94) Hexachlorobutadiene	15.017	225	157173	46.178	ug/l	98
95) Naphthalene	15.139	128	558879	51.347	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	252267	48.503	ug/l	98

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

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY062325

Manual Integrations
APPROVED

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

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

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

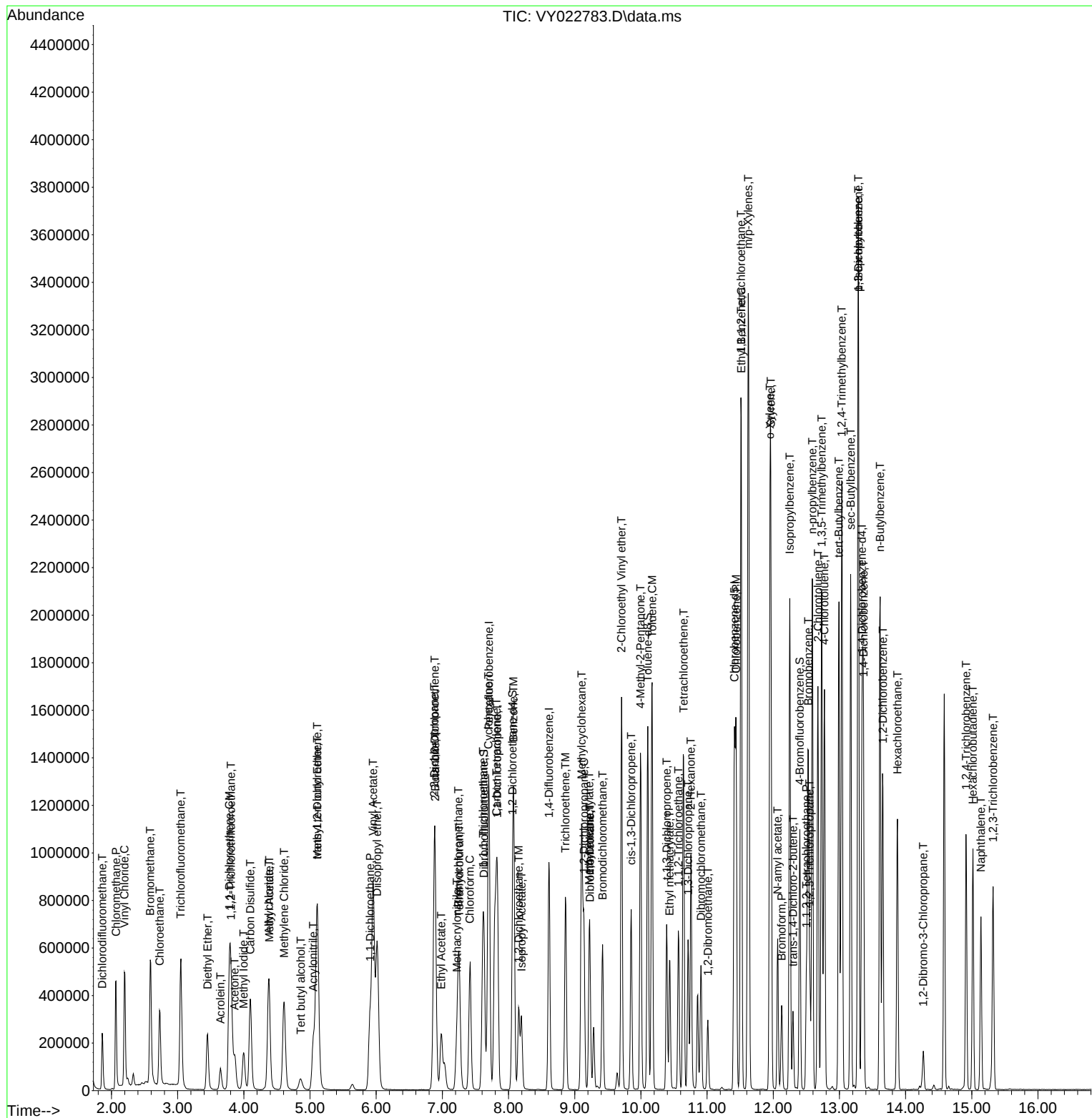
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022783.D
 Acq On : 23 Jun 2025 16:17
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY062325

Manual Integrations APPROVED

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

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



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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY062325

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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	103	-0.01
2 T	Dichlorodifluoromethane	0.428	0.393	8.2	95	0.00
3 P	Chloromethane	0.816	0.799	2.1	104	0.00
4 C	Vinyl Chloride	1.020	1.000	2.0#	99	0.00
5 T	Bromomethane	0.802	0.776	3.2	104	-0.01
6 T	Chloroethane	0.686	0.661	3.6	98	-0.01
7 T	Trichlorofluoromethane	1.129	1.081	4.3	96	-0.01
8 T	Diethyl Ether	0.279	0.268	3.9	97	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.516	0.488	5.4	97	-0.01
10 T	Methyl Iodide	0.562	0.527	6.2	87	-0.01
11 T	Tert butyl alcohol	0.037	0.038	-2.7	102	-0.02
12 CM	1,1-Dichloroethene	0.506	0.485	4.2#	97	-0.02
13 T	Acrolein	0.050	0.042	16.0	86	-0.01
14 T	Allyl chloride	0.778	0.745	4.2	96	-0.01
15 T	Acrylonitrile	0.116	0.116	0.0	99	-0.02
16 T	Acetone	0.105	0.091	13.3	98	-0.02
17 T	Carbon Disulfide	1.635	1.570	4.0	97	-0.01
18 T	Methyl Acetate	0.349	0.353	-1.1	104	-0.01
19 T	Methyl tert-butyl Ether	1.378	1.360	1.3	98	-0.02
20 T	Methylene Chloride	0.666	0.581	12.8	101	-0.01
21 T	trans-1,2-Dichloroethene	0.578	0.556	3.8	97	-0.01
22 T	Diisopropyl ether	1.729	1.668	3.5	96	-0.01
23 T	Vinyl Acetate	0.955	0.943	1.3	96	-0.02
24 P	1,1-Dichloroethane	1.044	1.014	2.9	97	-0.01
25 T	2-Butanone	0.154	0.147	4.5	99	-0.01
26 T	2,2-Dichloropropane	0.875	0.808	7.7	94	-0.01
27 T	cis-1,2-Dichloroethene	0.672	0.643	4.3	97	-0.01
28 T	Bromochloromethane	0.439	0.440	-0.2	99	0.00
29 T	Tetrahydrofuran	0.097	0.098	-1.0	99	-0.01
30 C	Chloroform	1.076	1.043	3.1#	98	-0.01
31 T	Cyclohexane	0.959	0.880	8.2	96	-0.01
32 T	1,1,1-Trichloroethane	0.929	0.899	3.2	97	0.00
33 S	1,2-Dichloroethane-d4	0.558	0.559	-0.2	103	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
35 S	Dibromofluoromethane	0.304	0.306	-0.7	103	-0.01
36 T	1,1-Dichloropropene	0.461	0.440	4.6	96	-0.01
37 T	Ethyl Acetate	0.199	0.198	0.5	99	-0.01
38 T	Carbon Tetrachloride	0.486	0.463	4.7	97	0.00
39 T	Methylcyclohexane	0.596	0.575	3.5	96	-0.01
40 TM	Benzene	1.417	1.371	3.2	96	-0.01
41 T	Methacrylonitrile	0.122	0.132	-8.2	113	-0.01
42 TM	1,2-Dichloroethane	0.388	0.381	1.8	98	-0.01
43 T	Isopropyl Acetate	0.413	0.413	0.0	97	0.00
44 TM	Trichloroethene	0.356	0.341	4.2	94	0.00
45 C	1,2-Dichloropropane	0.332	0.322	3.0#	97	0.00
46 T	Dibromomethane	0.188	0.181	3.7	97	0.00
47 T	Bromodichloromethane	0.485	0.475	2.1	98	0.00
48 T	Methyl methacrylate	0.199	0.204	-2.5	98	0.00

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY062325

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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	97	-0.02
50 S	Toluene-d8	1.207	1.201	0.5	101	0.00
51 T	4-Methyl-2-Pentanone	0.210	0.215	-2.4	98	0.00
52 CM	Toluene	0.894	0.874	2.2#	97	0.00
53 T	t-1,3-Dichloropropene	0.437	0.432	1.1	98	0.00
54 T	cis-1,3-Dichloropropene	0.506	0.502	0.8	98	0.00
55 T	1,1,2-Trichloroethane	0.244	0.241	1.2	98	0.00
56 T	Ethyl methacrylate	0.328	0.335	-2.1	97	-0.01
57 T	1,3-Dichloropropane	0.425	0.422	0.7	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.145	0.169	-16.6	102	0.00
59 T	2-Hexanone	0.143	0.144	-0.7	98	0.00
60 T	Dibromochloromethane	0.315	0.315	0.0	98	0.00
61 T	1,2-Dibromoethane	0.228	0.225	1.3	98	0.00
62 S	4-Bromofluorobenzene	0.388	0.391	-0.8	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64 T	Tetrachloroethene	0.472	0.428	9.3	86	0.00
65 PM	Chlorobenzene	1.099	1.057	3.8	98	0.00
66 T	1,1,1,2-Tetrachloroethane	0.372	0.357	4.0	96	0.00
67 C	Ethyl Benzene	1.930	1.904	1.3#	98	0.00
68 T	m/p-Xylenes	0.746	0.735	1.5	98	-0.01
69 T	o-Xylene	0.703	0.698	0.7	99	0.00
70 T	Styrene	1.178	1.175	0.3	98	0.00
71 P	Bromoform	0.207	0.200	3.4	98	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
73 T	Isopropylbenzene	3.698	3.519	4.8	97	0.00
74 T	N-amyl acetate	0.830	0.834	-0.5	97	0.00
75 P	1,1,2,2-Tetrachloroethane	0.596	0.594	0.3	109	0.00
76 T	1,2,3-Trichloropropane	0.510	0.478	6.3	98	0.00
77 T	Bromobenzene	0.838	0.801	4.4	98	0.00
78 T	n-propylbenzene	4.465	4.296	3.8	98	0.00
79 T	2-Chlorotoluene	2.522	2.426	3.8	98	0.00
80 T	1,3,5-Trimethylbenzene	2.985	2.928	1.9	100	0.00
81 T	trans-1,4-Dichloro-2-butene	0.202	0.184	8.9	97	0.00
82 T	4-Chlorotoluene	2.650	2.558	3.5	99	0.00
83 T	tert-Butylbenzene	2.633	2.553	3.0	98	0.00
84 T	1,2,4-Trimethylbenzene	2.989	2.946	1.4	99	0.00
85 T	sec-Butylbenzene	3.961	3.835	3.2	98	0.00
86 T	p-Isopropyltoluene	3.296	3.222	2.2	98	0.00
87 T	1,3-Dichlorobenzene	1.683	1.626	3.4	99	0.00
88 T	1,4-Dichlorobenzene	1.672	1.600	4.3	99	0.00
89 T	n-Butylbenzene	3.101	3.015	2.8	98	0.00
90 T	Hexachloroethane	0.657	0.636	3.2	98	0.00
91 T	1,2-Dichlorobenzene	1.483	1.425	3.9	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.101	0.099	2.0	100	0.00
93 T	1,2,4-Trichlorobenzene	0.838	0.818	2.4	101	0.00
94 T	Hexachlorobutadiene	0.474	0.437	7.8	98	0.00
95 T	Naphthalene	1.515	1.555	-2.6	101	0.00

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

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY062325

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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.724	0.702	3.0	100	0.00

(#) = Out of Range

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

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY062325

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

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	103	-0.01
2 T	Dichlorodifluoromethane	50.000	45.936	8.1	95	0.00
3 P	Chloromethane	50.000	48.905	2.2	104	0.00
4 C	Vinyl Chloride	50.000	49.034	1.9#	99	0.00
5 T	Bromomethane	50.000	48.375	3.3	104	-0.01
6 T	Chloroethane	50.000	48.206	3.6	98	-0.01
7 T	Trichlorofluoromethane	50.000	47.875	4.3	96	-0.01
8 T	Diethyl Ether	50.000	48.097	3.8	97	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.248	5.5	97	-0.01
10 T	Methyl Iodide	50.000	46.847	6.3	87	-0.01
11 T	Tert butyl alcohol	250.000	253.906	-1.6	102	-0.02
12 CM	1,1-Dichloroethene	50.000	47.868	4.3#	97	-0.02
13 T	Acrolein	250.000	206.396	17.4	86	-0.01
14 T	Allyl chloride	50.000	47.825	4.3	96	-0.01
15 T	Acrylonitrile	250.000	248.823	0.5	99	-0.02
16 T	Acetone	250.000	214.694	14.1	98	-0.02
17 T	Carbon Disulfide	50.000	48.003	4.0	97	-0.01
18 T	Methyl Acetate	50.000	50.527	-1.1	104	-0.01
19 T	Methyl tert-butyl Ether	50.000	49.329	1.3	98	-0.02
20 T	Methylene Chloride	50.000	43.635	12.7	101	-0.01
21 T	trans-1,2-Dichloroethene	50.000	48.066	3.9	97	-0.01
22 T	Diisopropyl ether	50.000	48.237	3.5	96	-0.01
23 T	Vinyl Acetate	250.000	247.008	1.2	96	-0.02
24 P	1,1-Dichloroethane	50.000	48.573	2.9	97	-0.01
25 T	2-Butanone	250.000	239.723	4.1	99	-0.01
26 T	2,2-Dichloropropane	50.000	46.171	7.7	94	-0.01
27 T	cis-1,2-Dichloroethene	50.000	47.867	4.3	97	-0.01
28 T	Bromochloromethane	50.000	50.087	-0.2	99	0.00
29 T	Tetrahydrofuran	250.000	252.693	-1.1	99	-0.01
30 C	Chloroform	50.000	48.491	3.0#	98	-0.01
31 T	Cyclohexane	50.000	45.926	8.1	96	-0.01
32 T	1,1,1-Trichloroethane	50.000	48.388	3.2	97	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.109	-0.2	103	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	103	0.00
35 S	Dibromofluoromethane	50.000	50.304	-0.6	103	-0.01
36 T	1,1-Dichloropropene	50.000	47.735	4.5	96	-0.01
37 T	Ethyl Acetate	50.000	49.894	0.2	99	-0.01
38 T	Carbon Tetrachloride	50.000	47.632	4.7	97	0.00
39 T	Methylcyclohexane	50.000	48.226	3.5	96	-0.01
40 TM	Benzene	50.000	48.376	3.2	96	-0.01
41 T	Methacrylonitrile	50.000	53.720	-7.4	113	-0.01
42 TM	1,2-Dichloroethane	50.000	49.108	1.8	98	-0.01
43 T	Isopropyl Acetate	50.000	49.983	0.0	97	0.00
44 TM	Trichloroethene	50.000	47.904	4.2	94	0.00
45 C	1,2-Dichloropropane	50.000	48.510	3.0#	97	0.00
46 T	Dibromomethane	50.000	48.070	3.9	97	0.00
47 T	Bromodichloromethane	50.000	48.872	2.3	98	0.00
48 T	Methyl methacrylate	50.000	51.285	-2.6	98	0.00

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

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY062325

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

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	983.335	1.7	97	-0.02
50 S	Toluene-d8	50.000	49.755	0.5	101	0.00
51 T	4-Methyl-2-Pentanone	250.000	256.103	-2.4	98	0.00
52 CM	Toluene	50.000	48.894	2.2#	97	0.00
53 T	t-1,3-Dichloropropene	50.000	49.428	1.1	98	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.547	0.9	98	0.00
55 T	1,1,2-Trichloroethane	50.000	49.380	1.2	98	0.00
56 T	Ethyl methacrylate	50.000	51.054	-2.1	97	-0.01
57 T	1,3-Dichloropropane	50.000	49.568	0.9	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	245.249	1.9	102	0.00
59 T	2-Hexanone	250.000	251.999	-0.8	98	0.00
60 T	Dibromochloromethane	50.000	49.955	0.1	98	0.00
61 T	1,2-Dibromoethane	50.000	49.399	1.2	98	0.00
62 S	4-Bromofluorobenzene	50.000	50.342	-0.7	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64 T	Tetrachloroethene	50.000	45.257	9.5	86	0.00
65 PM	Chlorobenzene	50.000	48.095	3.8	98	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	47.973	4.1	96	0.00
67 C	Ethyl Benzene	50.000	49.316	1.4#	98	0.00
68 T	m/p-Xylenes	100.000	98.506	1.5	98	-0.01
69 T	o-Xylene	50.000	49.631	0.7	99	0.00
70 T	Styrene	50.000	49.897	0.2	98	0.00
71 P	Bromoform	50.000	48.380	3.2	98	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	104	0.00
73 T	Isopropylbenzene	50.000	47.581	4.8	97	0.00
74 T	N-amyl acetate	50.000	50.258	-0.5	97	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.808	0.4	109	0.00
76 T	1,2,3-Trichloropropane	50.000	46.775	6.5	98	0.00
77 T	Bromobenzene	50.000	47.796	4.4	98	0.00
78 T	n-propylbenzene	50.000	48.108	3.8	98	0.00
79 T	2-Chlorotoluene	50.000	48.080	3.8	98	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.044	1.9	100	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	45.554	8.9	97	0.00
82 T	4-Chlorotoluene	50.000	48.276	3.4	99	0.00
83 T	tert-Butylbenzene	50.000	48.481	3.0	98	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.278	1.4	99	0.00
85 T	sec-Butylbenzene	50.000	48.405	3.2	98	0.00
86 T	p-Isopropyltoluene	50.000	48.873	2.3	98	0.00
87 T	1,3-Dichlorobenzene	50.000	48.286	3.4	99	0.00
88 T	1,4-Dichlorobenzene	50.000	47.844	4.3	99	0.00
89 T	n-Butylbenzene	50.000	48.623	2.8	98	0.00
90 T	Hexachloroethane	50.000	48.434	3.1	98	0.00
91 T	1,2-Dichlorobenzene	50.000	48.036	3.9	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.145	1.7	100	0.00
93 T	1,2,4-Trichlorobenzene	50.000	48.842	2.3	101	0.00
94 T	Hexachlorobutadiene	50.000	46.178	7.6	98	0.00
95 T	Naphthalene	50.000	51.347	-2.7	101	0.00

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

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY062325

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

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.503	3.0	100	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: Q2393 SAS No.: Q2393 SDG No.: Q2393

Instrument ID: MSVOA_Y Calibration Date/Time: 06/24/2025 09:20

Lab File ID: VY022785.D Init. Calib. Date(s): 06/23/2025 06/23/2025

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.390		-8.88	20
Chloromethane	0.816	0.733	0.1	-10.17	20
Vinyl Chloride	1.020	0.931		-8.73	20
Bromomethane	0.802	0.695		-13.34	20
Chloroethane	0.686	0.626		-8.75	20
Trichlorofluoromethane	1.129	1.023		-9.39	20
1,1,2-Trichlorotrifluoroethane	0.516	0.503		-2.52	20
1,1-Dichloroethene	0.506	0.489		-3.36	20
Acetone	0.105	0.124		18.09	20
Carbon Disulfide	1.635	1.605		-1.84	20
Methyl tert-butyl Ether	1.378	1.347		-2.25	20
Methyl Acetate	0.349	0.296		-15.19	20
Methylene Chloride	0.666	0.577		-13.36	20
trans-1,2-Dichloroethene	0.578	0.559		-3.29	20
1,1-Dichloroethane	1.044	1.022	0.1	-2.11	20
Cyclohexane	0.959	0.899		-6.26	20
2-Butanone	0.154	0.159		3.25	20
Carbon Tetrachloride	0.486	0.484		-0.41	20
cis-1,2-Dichloroethene	0.672	0.652		-2.98	20
Bromochloromethane	0.439	0.438		-0.23	20
Chloroform	1.076	1.045		-2.79	20
1,1,1-Trichloroethane	0.929	0.904		-2.69	20
Methylcyclohexane	0.596	0.602		1.01	20
Benzene	1.417	1.410		-0.49	20
1,2-Dichloroethane	0.388	0.391		0.77	20
Trichloroethene	0.356	0.347		-2.53	20
1,2-Dichloropropane	0.332	0.331		-0.3	20
Bromodichloromethane	0.485	0.484		-0.21	20
4-Methyl-2-Pentanone	0.210	0.214		1.9	20
Toluene	0.894	0.889		-0.56	20
t-1,3-Dichloropropene	0.437	0.441		0.92	20
cis-1,3-Dichloropropene	0.506	0.512		1.19	20
1,1,2-Trichloroethane	0.244	0.245		0.41	20
2-Hexanone	0.143	0.150		4.89	20
Dibromochloromethane	0.315	0.315		0	20
1,2-Dibromoethane	0.228	0.226		-0.88	20
Tetrachloroethene	0.472	0.441		-6.57	20
Chlorobenzene	1.099	1.101	0.3	0.18	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: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: Q2393 SAS No.: Q2393 SDG No.: Q2393

Instrument ID: MSVOA_Y Calibration Date/Time: 06/24/2025 09:20

Lab File ID: VY022785.D Init. Calib. Date(s): 06/23/2025 06/23/2025

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	1.991		3.16	20
m/p-Xylenes	0.746	0.768		2.95	20
o-Xylene	0.703	0.719		2.28	20
Styrene	1.178	1.214		3.06	20
Bromoform	0.207	0.204	0.1	-1.45	20
Isopropylbenzene	3.698	3.705		0.19	20
1,1,2,2-Tetrachloroethane	0.596	0.613	0.3	2.85	20
1,3-Dichlorobenzene	1.683	1.685		0.12	20
1,4-Dichlorobenzene	1.672	1.646		-1.55	20
1,2-Dichlorobenzene	1.483	1.446		-2.49	20
1,2-Dibromo-3-Chloropropane	0.101	0.097		-3.96	20
1,2,4-Trichlorobenzene	0.838	0.807		-3.7	20
1,2,3-Trichlorobenzene	0.724	0.692		-4.42	20
1,2-Dichloroethane-d4	0.558	0.544		-2.51	20
Dibromofluoromethane	0.304	0.310		1.97	20
Toluene-d8	1.207	1.226		1.57	20
4-Bromofluorobenzene	0.388	0.387		-0.26	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022785.D
 Acq On : 24 Jun 2025 09:20
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025
 Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:19:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	480569	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	788269	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	678315	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	340335	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	261283	48.714	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.420%
35) Dibromofluoromethane	7.634	113	244214	50.943	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.880%
50) Toluene-d8	10.103	98	966354	50.800	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	101.600%
62) 4-Bromofluorobenzene	12.402	95	304692	49.825	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	99.660%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	187605	45.653	ug/l	99
3) Chloromethane	2.068	50	352218	44.886	ug/l	98
4) Vinyl Chloride	2.202	62	447496	45.647	ug/l	100
5) Bromomethane	2.592	94	333794	43.310	ug/l	99
6) Chloroethane	2.733	64	300761	45.640	ug/l	96
7) Trichlorofluoromethane	3.050	101	491670	45.294	ug/l	98
8) Diethyl Ether	3.452	74	128537	47.942	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	241549	48.692	ug/l	98
10) Methyl Iodide	4.001	142	277717	51.418	ug/l	99
11) Tert butyl alcohol	4.854	59	84161	235.981	ug/l	98
12) 1,1-Dichloroethene	3.787	96	234897	48.290	ug/l	98
13) Acrolein	3.647	56	107203	221.672	ug/l	99
14) Allyl chloride	4.379	41	368419	49.242	ug/l	95
15) Acrylonitrile	5.049	53	275688	246.454	ug/l	99
16) Acetone	3.867	43	299043	294.982	ug/l	97
17) Carbon Disulfide	4.104	76	771483	49.095	ug/l	100
18) Methyl Acetate	4.385	43	142156	42.343	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	647481	48.885	ug/l	100
20) Methylene Chloride	4.610	84	277358	43.322	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	268610	48.317	ug/l	97
22) Diisopropyl ether	6.012	45	819092	49.296	ug/l	99
23) Vinyl Acetate	5.958	43	2377985	259.134	ug/l	99
24) 1,1-Dichloroethane	5.909	63	490905	48.913	ug/l	100
25) 2-Butanone	6.890	43	382848	259.477	ug/l	100
26) 2,2-Dichloropropane	6.884	77	432416	51.399	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	313435	48.520	ug/l	100
28) Bromochloromethane	7.244	49	210301	49.841	ug/l	95
29) Tetrahydrofuran	7.262	42	230217	247.100	ug/l	99
30) Chloroform	7.421	83	502331	48.595	ug/l	95
31) Cyclohexane	7.701	56	432130	46.906	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	434321	48.620	ug/l	98
36) 1,1-Dichloropropene	7.835	75	364003	50.094	ug/l	99
37) Ethyl Acetate	6.982	43	161101	51.379	ug/l	96
38) Carbon Tetrachloride	7.817	117	381526	49.762	ug/l	97
39) Methylcyclohexane	9.110	83	474467	50.457	ug/l	99
40) Benzene	8.079	78	1111272	49.742	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022785.D
 Acq On : 24 Jun 2025 09:20
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025

Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:19:53 2025

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

Quant Title : SW846 8260

QLast Update : Tue Jun 24 08:29:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	88474	45.834	ug/l	95
42) 1,2-Dichloroethane	8.158	62	308508	50.394	ug/l	98
43) Isopropyl Acetate	8.195	43	327988	50.329	ug/l	99
44) Trichloroethene	8.866	130	273386	48.740	ug/l	97
45) 1,2-Dichloropropane	9.140	63	261237	49.962	ug/l	96
46) Dibromomethane	9.231	93	144951	48.835	ug/l	96
47) Bromodichloromethane	9.420	83	381786	49.881	ug/l	99
48) Methyl methacrylate	9.219	41	164236	52.423	ug/l	95
49) 1,4-Dioxane	9.231	88	33567	957.200	ug/l	98
51) 4-Methyl-2-Pentanone	9.993	43	844784	255.091	ug/l	96
52) Toluene	10.170	92	700747	49.718	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	347407	50.447	ug/l	95
54) cis-1,3-Dichloropropene	9.853	75	403676	50.555	ug/l	98
55) 1,1,2-Trichloroethane	10.567	97	192974	50.208	ug/l	98
56) Ethyl methacrylate	10.439	69	262082	50.683	ug/l	96
57) 1,3-Dichloropropane	10.713	76	332030	49.515	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	665133	245.063	ug/l	99
59) 2-Hexanone	10.756	43	590744	262.373	ug/l	98
60) Dibromochloromethane	10.908	129	248320	50.019	ug/l	99
61) 1,2-Dibromoethane	11.012	107	178176	49.540	ug/l	97
64) Tetrachloroethene	10.646	164	299261	46.701	ug/l	97
65) Chlorobenzene	11.438	112	746746	50.101	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.512	131	254204	50.354	ug/l	100
67) Ethyl Benzene	11.518	91	1350768	51.580	ug/l	98
68) m/p-Xylenes	11.627	106	1041613	102.894	ug/l	100
69) o-Xylene	11.950	106	487801	51.140	ug/l	100
70) Styrene	11.969	104	823388	51.534	ug/l	100
71) Bromoform	12.127	173	138710	49.346	ug/l #	98
73) Isopropylbenzene	12.249	105	1260842	50.093	ug/l	99
74) N-amyl acetate	12.066	43	293683	51.982	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	208754	51.461	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	172364m	49.608	ug/l	
77) Bromobenzene	12.530	156	278554	48.825	ug/l	99
78) n-propylbenzene	12.591	91	1551740	51.062	ug/l	98
79) 2-Chlorotoluene	12.676	91	861726	50.189	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	1034655	50.921	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	69771	50.732	ug/l	98
82) 4-Chlorotoluene	12.773	91	896321	49.700	ug/l	100
83) tert-Butylbenzene	12.993	119	904947	50.501	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	1040633	51.154	ug/l	100
85) sec-Butylbenzene	13.170	105	1372848	50.919	ug/l	99
86) p-Isopropyltoluene	13.286	119	1152956	51.387	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	573618	50.062	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	560298	49.228	ug/l	100
89) n-Butylbenzene	13.615	91	1081730	51.255	ug/l	99
90) Hexachloroethane	13.877	117	224152	50.160	ug/l	95
91) 1,2-Dichlorobenzene	13.657	146	492169	48.742	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.267	75	32892	47.813	ug/l	97
93) 1,2,4-Trichlorobenzene	14.913	180	274743	48.191	ug/l	99
94) Hexachlorobutadiene	15.017	225	156435	48.524	ug/l	97
95) Naphthalene	15.139	128	501125	48.608	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	235416	47.786	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022785.D
Acq On : 24 Jun 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:19:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

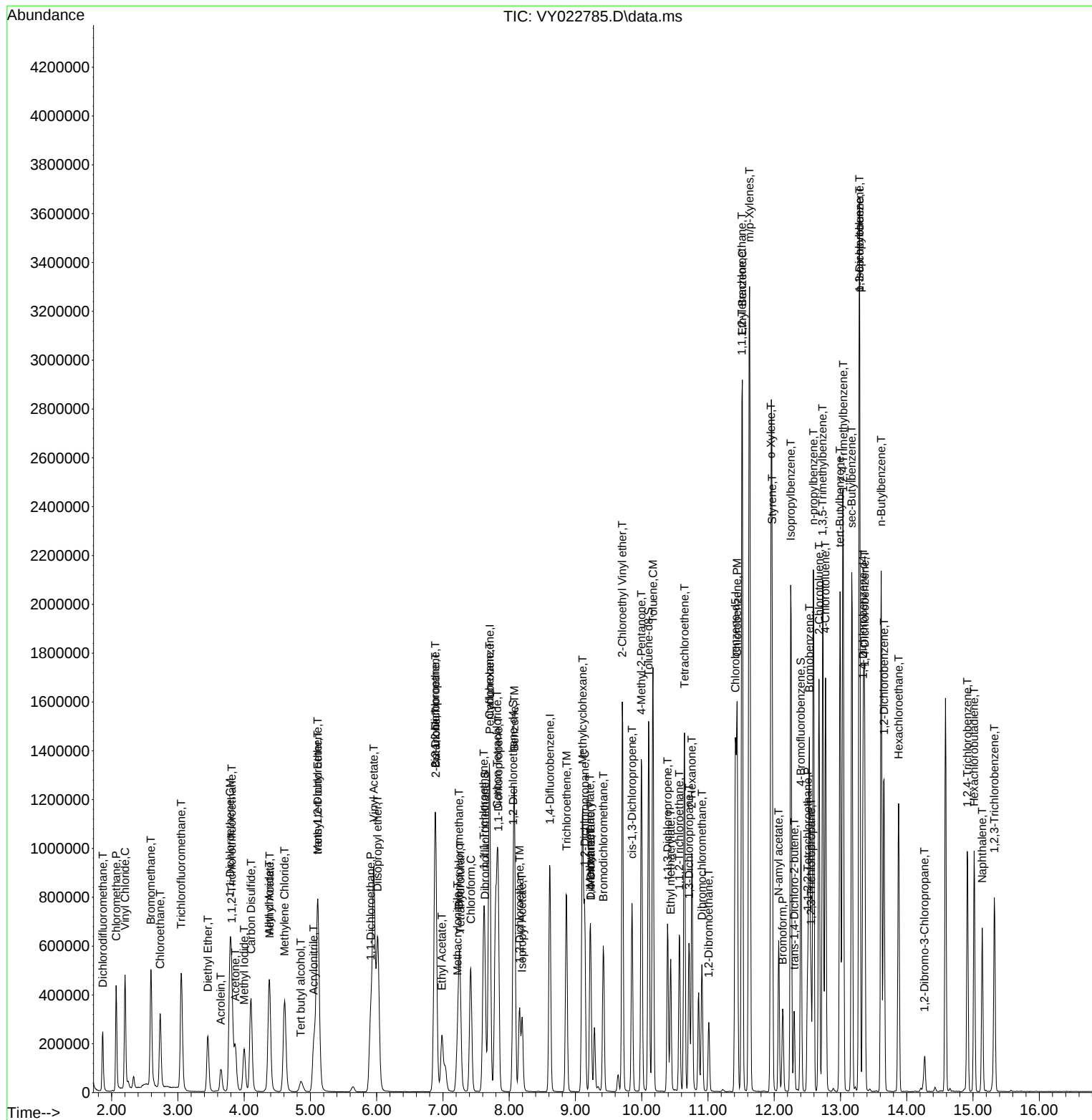
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022785.D
Acq On : 24 Jun 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:19:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022785.D
 Acq On : 24 Jun 2025 09:20
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 25 01:19:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	0.428	0.390	8.9	95	0.00
3 P	Chloromethane	0.816	0.733	10.2	95	0.00
4 C	Vinyl Chloride	1.020	0.931	8.7#	92	0.00
5 T	Bromomethane	0.802	0.695	13.3	93	0.00
6 T	Chloroethane	0.686	0.626	8.7	93	0.00
7 T	Trichlorofluoromethane	1.129	1.023	9.4	90	0.00
8 T	Diethyl Ether	0.279	0.267	4.3	97	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.516	0.503	2.5	101	0.00
10 T	Methyl Iodide	0.562	0.578	-2.8	95	0.00
11 T	Tert butyl alcohol	0.037	0.035	5.4	95	-0.03
12 CM	1,1-Dichloroethene	0.506	0.489	3.4#	98	-0.01
13 T	Acrolein	0.050	0.045	10.0	93	-0.01
14 T	Allyl chloride	0.778	0.767	1.4	99	-0.01
15 T	Acrylonitrile	0.116	0.115	0.9	98	-0.02
16 T	Acetone	0.105	0.124	-18.1	134	-0.01
17 T	Carbon Disulfide	1.635	1.605	1.8	99	0.00
18 T	Methyl Acetate	0.349	0.296	15.2	87	-0.01
19 T	Methyl tert-butyl Ether	1.378	1.347	2.2	97	-0.02
20 T	Methylene Chloride	0.666	0.577	13.4	101	-0.01
21 T	trans-1,2-Dichloroethene	0.578	0.559	3.3	97	-0.01
22 T	Diisopropyl ether	1.729	1.704	1.4	98	-0.01
23 T	Vinyl Acetate	0.955	0.990	-3.7	101	-0.01
24 P	1,1-Dichloroethane	1.044	1.022	2.1	98	-0.01
25 T	2-Butanone	0.154	0.159	-3.2	107	-0.01
26 T	2,2-Dichloropropane	0.875	0.900	-2.9	105	0.00
27 T	cis-1,2-Dichloroethene	0.672	0.652	3.0	98	-0.01
28 T	Bromochloromethane	0.439	0.438	0.2	98	0.00
29 T	Tetrahydrofuran	0.097	0.096	1.0	97	0.00
30 C	Chloroform	1.076	1.045	2.9#	98	0.00
31 T	Cyclohexane	0.959	0.899	6.3	98	0.00
32 T	1,1,1-Trichloroethane	0.929	0.904	2.7	98	0.00
33 S	1,2-Dichloroethane-d4	0.558	0.544	2.5	100	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35 S	Dibromofluoromethane	0.304	0.310	-2.0	102	0.00
36 T	1,1-Dichloropropene	0.461	0.462	-0.2	99	0.00
37 T	Ethyl Acetate	0.199	0.204	-2.5	100	-0.01
38 T	Carbon Tetrachloride	0.486	0.484	0.4	99	0.00
39 T	Methylcyclohexane	0.596	0.602	-1.0	98	0.00
40 TM	Benzene	1.417	1.410	0.5	97	0.00
41 T	Methacrylonitrile	0.122	0.112	8.2	94	-0.01
42 TM	1,2-Dichloroethane	0.388	0.391	-0.8	98	0.00
43 T	Isopropyl Acetate	0.413	0.416	-0.7	96	0.00
44 TM	Trichloroethene	0.356	0.347	2.5	93	0.00
45 C	1,2-Dichloropropane	0.332	0.331	0.3#	98	0.00
46 T	Dibromomethane	0.188	0.184	2.1	96	0.00
47 T	Bromodichloromethane	0.485	0.484	0.2	98	0.00
48 T	Methyl methacrylate	0.199	0.208	-4.5	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022785.D
 Acq On : 24 Jun 2025 09:20
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 25 01:19:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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	93	-0.01
50 S	Toluene-d8	1.207	1.226	-1.6	101	0.00
51 T	4-Methyl-2-Pentanone	0.210	0.214	-1.9	95	0.00
52 CM	Toluene	0.894	0.889	0.6#	96	0.00
53 T	t-1,3-Dichloropropene	0.437	0.441	-0.9	98	0.00
54 T	cis-1,3-Dichloropropene	0.506	0.512	-1.2	98	0.00
55 T	1,1,2-Trichloroethane	0.244	0.245	-0.4	97	0.00
56 T	Ethyl methacrylate	0.328	0.332	-1.2	94	0.00
57 T	1,3-Dichloropropane	0.425	0.421	0.9	96	0.00
58 T	2-Chloroethyl Vinyl ether	0.145	0.169	-16.6	100	0.00
59 T	2-Hexanone	0.143	0.150	-4.9	99	0.00
60 T	Dibromochloromethane	0.315	0.315	0.0	96	0.00
61 T	1,2-Dibromoethane	0.228	0.226	0.9	96	0.00
62 S	4-Bromofluorobenzene	0.388	0.387	0.3	101	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64 T	Tetrachloroethene	0.472	0.441	6.6	85	0.00
65 PM	Chlorobenzene	1.099	1.101	-0.2	97	0.00
66 T	1,1,1,2-Tetrachloroethane	0.372	0.375	-0.8	97	0.00
67 C	Ethyl Benzene	1.930	1.991	-3.2#	98	0.00
68 T	m/p-Xylenes	0.746	0.768	-2.9	98	0.00
69 T	o-Xylene	0.703	0.719	-2.3	97	0.00
70 T	Styrene	1.178	1.214	-3.1	97	0.00
71 P	Bromoform	0.207	0.204	1.4	96	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
73 T	Isopropylbenzene	3.698	3.705	-0.2	97	0.00
74 T	N-amyl acetate	0.830	0.863	-4.0	95	0.00
75 P	1,1,2,2-Tetrachloroethane	0.596	0.613	-2.9	107	0.00
76 T	1,2,3-Trichloropropane	0.510	0.506	0.8	98	0.00
77 T	Bromobenzene	0.838	0.818	2.4	95	0.00
78 T	n-propylbenzene	4.465	4.559	-2.1	99	0.00
79 T	2-Chlorotoluene	2.522	2.532	-0.4	97	0.00
80 T	1,3,5-Trimethylbenzene	2.985	3.040	-1.8	98	0.00
81 T	trans-1,4-Dichloro-2-butene	0.202	0.205	-1.5	102	0.00
82 T	4-Chlorotoluene	2.650	2.634	0.6	96	0.00
83 T	tert-Butylbenzene	2.633	2.659	-1.0	97	0.00
84 T	1,2,4-Trimethylbenzene	2.989	3.058	-2.3	97	0.00
85 T	sec-Butylbenzene	3.961	4.034	-1.8	97	0.00
86 T	p-Isopropyltoluene	3.296	3.388	-2.8	98	0.00
87 T	1,3-Dichlorobenzene	1.683	1.685	-0.1	97	0.00
88 T	1,4-Dichlorobenzene	1.672	1.646	1.6	96	0.00
89 T	n-Butylbenzene	3.101	3.178	-2.5	98	0.00
90 T	Hexachloroethane	0.657	0.659	-0.3	97	0.00
91 T	1,2-Dichlorobenzene	1.483	1.446	2.5	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.101	0.097	4.0	92	0.00
93 T	1,2,4-Trichlorobenzene	0.838	0.807	3.7	95	0.00
94 T	Hexachlorobutadiene	0.474	0.460	3.0	98	0.00
95 T	Naphthalene	1.515	1.472	2.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022785.D
Acq On : 24 Jun 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jun 25 01:19:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.724	0.692	4.4	94	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022785.D
 Acq On : 24 Jun 2025 09:20
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 25 01:19:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	50.000	45.653	8.7	95	0.00
3 P	Chloromethane	50.000	44.886	10.2	95	0.00
4 C	Vinyl Chloride	50.000	45.647	8.7#	92	0.00
5 T	Bromomethane	50.000	43.310	13.4	93	0.00
6 T	Chloroethane	50.000	45.640	8.7	93	0.00
7 T	Trichlorofluoromethane	50.000	45.294	9.4	90	0.00
8 T	Diethyl Ether	50.000	47.942	4.1	97	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.692	2.6	101	0.00
10 T	Methyl Iodide	50.000	51.418	-2.8	95	0.00
11 T	Tert butyl alcohol	250.000	235.981	5.6	95	-0.03
12 CM	1,1-Dichloroethene	50.000	48.290	3.4#	98	-0.01
13 T	Acrolein	250.000	221.672	11.3	93	-0.01
14 T	Allyl chloride	50.000	49.242	1.5	99	-0.01
15 T	Acrylonitrile	250.000	246.454	1.4	98	-0.02
16 T	Acetone	250.000	294.982	-18.0	134	-0.01
17 T	Carbon Disulfide	50.000	49.095	1.8	99	0.00
18 T	Methyl Acetate	50.000	42.343	15.3	87	-0.01
19 T	Methyl tert-butyl Ether	50.000	48.885	2.2	97	-0.02
20 T	Methylene Chloride	50.000	43.322	13.4	101	-0.01
21 T	trans-1,2-Dichloroethene	50.000	48.317	3.4	97	-0.01
22 T	Diisopropyl ether	50.000	49.296	1.4	98	-0.01
23 T	Vinyl Acetate	250.000	259.134	-3.7	101	-0.01
24 P	1,1-Dichloroethane	50.000	48.913	2.2	98	-0.01
25 T	2-Butanone	250.000	259.477	-3.8	107	-0.01
26 T	2,2-Dichloropropane	50.000	51.399	-2.8	105	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.520	3.0	98	-0.01
28 T	Bromochloromethane	50.000	49.841	0.3	98	0.00
29 T	Tetrahydrofuran	250.000	247.100	1.2	97	0.00
30 C	Chloroform	50.000	48.595	2.8#	98	0.00
31 T	Cyclohexane	50.000	46.906	6.2	98	0.00
32 T	1,1,1-Trichloroethane	50.000	48.620	2.8	98	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.714	2.6	100	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35 S	Dibromofluoromethane	50.000	50.943	-1.9	102	0.00
36 T	1,1-Dichloropropene	50.000	50.094	-0.2	99	0.00
37 T	Ethyl Acetate	50.000	51.379	-2.8	100	-0.01
38 T	Carbon Tetrachloride	50.000	49.762	0.5	99	0.00
39 T	Methylcyclohexane	50.000	50.457	-0.9	98	0.00
40 TM	Benzene	50.000	49.742	0.5	97	0.00
41 T	Methacrylonitrile	50.000	45.834	8.3	94	-0.01
42 TM	1,2-Dichloroethane	50.000	50.394	-0.8	98	0.00
43 T	Isopropyl Acetate	50.000	50.329	-0.7	96	0.00
44 TM	Trichloroethene	50.000	48.740	2.5	93	0.00
45 C	1,2-Dichloropropane	50.000	49.962	0.1#	98	0.00
46 T	Dibromomethane	50.000	48.835	2.3	96	0.00
47 T	Bromodichloromethane	50.000	49.881	0.2	98	0.00
48 T	Methyl methacrylate	50.000	52.423	-4.8	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022785.D
 Acq On : 24 Jun 2025 09:20
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 25 01:19:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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	957.200	4.3	93	-0.01
50 S	Toluene-d8	50.000	50.800	-1.6	101	0.00
51 T	4-Methyl-2-Pentanone	250.000	255.091	-2.0	95	0.00
52 CM	Toluene	50.000	49.718	0.6#	96	0.00
53 T	t-1,3-Dichloropropene	50.000	50.447	-0.9	98	0.00
54 T	cis-1,3-Dichloropropene	50.000	50.555	-1.1	98	0.00
55 T	1,1,2-Trichloroethane	50.000	50.208	-0.4	97	0.00
56 T	Ethyl methacrylate	50.000	50.683	-1.4	94	0.00
57 T	1,3-Dichloropropane	50.000	49.515	1.0	96	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	245.063	2.0	100	0.00
59 T	2-Hexanone	250.000	262.373	-4.9	99	0.00
60 T	Dibromochloromethane	50.000	50.019	-0.0	96	0.00
61 T	1,2-Dibromoethane	50.000	49.540	0.9	96	0.00
62 S	4-Bromofluorobenzene	50.000	49.825	0.3	101	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64 T	Tetrachloroethene	50.000	46.701	6.6	85	0.00
65 PM	Chlorobenzene	50.000	50.101	-0.2	97	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.354	-0.7	97	0.00
67 C	Ethyl Benzene	50.000	51.580	-3.2#	98	0.00
68 T	m/p-Xylenes	100.000	102.894	-2.9	98	0.00
69 T	o-Xylene	50.000	51.140	-2.3	97	0.00
70 T	Styrene	50.000	51.534	-3.1	97	0.00
71 P	Bromoform	50.000	49.346	1.3	96	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
73 T	Isopropylbenzene	50.000	50.093	-0.2	97	0.00
74 T	N-ethyl acetate	50.000	51.982	-4.0	95	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.461	-2.9	107	0.00
76 T	1,2,3-Trichloropropane	50.000	49.608	0.8	98	0.00
77 T	Bromobenzene	50.000	48.825	2.3	95	0.00
78 T	n-propylbenzene	50.000	51.062	-2.1	99	0.00
79 T	2-Chlorotoluene	50.000	50.189	-0.4	97	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.921	-1.8	98	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	50.732	-1.5	102	0.00
82 T	4-Chlorotoluene	50.000	49.700	0.6	96	0.00
83 T	tert-Butylbenzene	50.000	50.501	-1.0	97	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.154	-2.3	97	0.00
85 T	sec-Butylbenzene	50.000	50.919	-1.8	97	0.00
86 T	p-Isopropyltoluene	50.000	51.387	-2.8	98	0.00
87 T	1,3-Dichlorobenzene	50.000	50.062	-0.1	97	0.00
88 T	1,4-Dichlorobenzene	50.000	49.228	1.5	96	0.00
89 T	n-Butylbenzene	50.000	51.255	-2.5	98	0.00
90 T	Hexachloroethane	50.000	50.160	-0.3	97	0.00
91 T	1,2-Dichlorobenzene	50.000	48.742	2.5	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	47.813	4.4	92	0.00
93 T	1,2,4-Trichlorobenzene	50.000	48.191	3.6	95	0.00
94 T	Hexachlorobutadiene	50.000	48.524	3.0	98	0.00
95 T	Naphthalene	50.000	48.608	2.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022785.D
Acq On : 24 Jun 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jun 25 01:19:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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	47.786	4.4	94	0.00

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



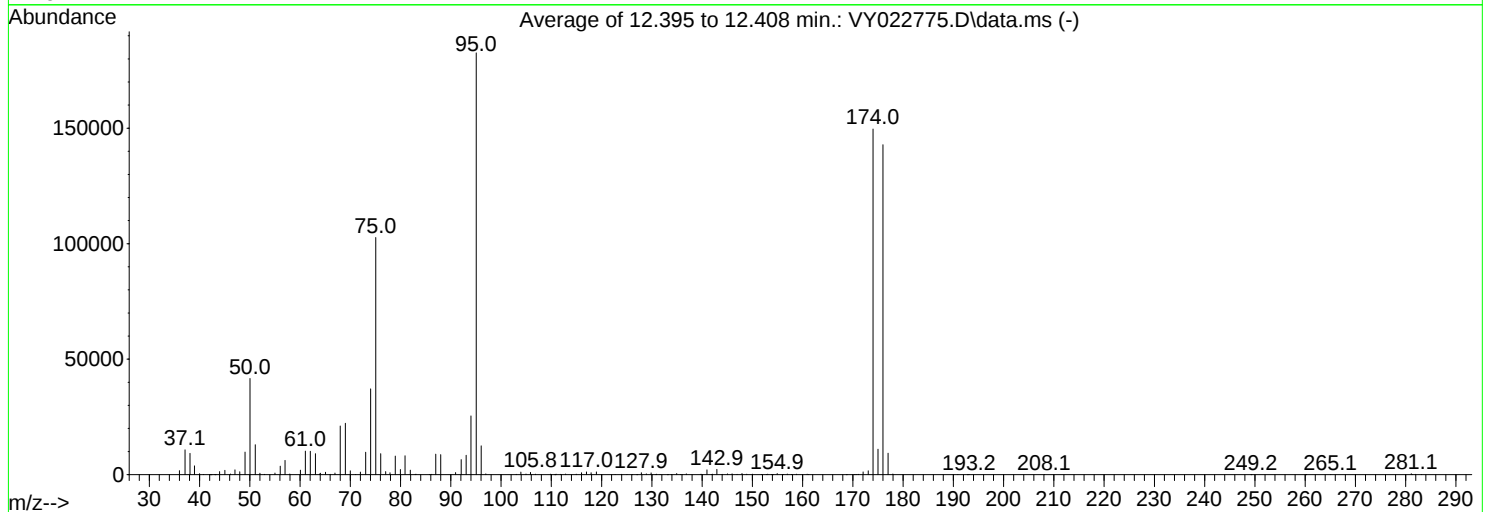
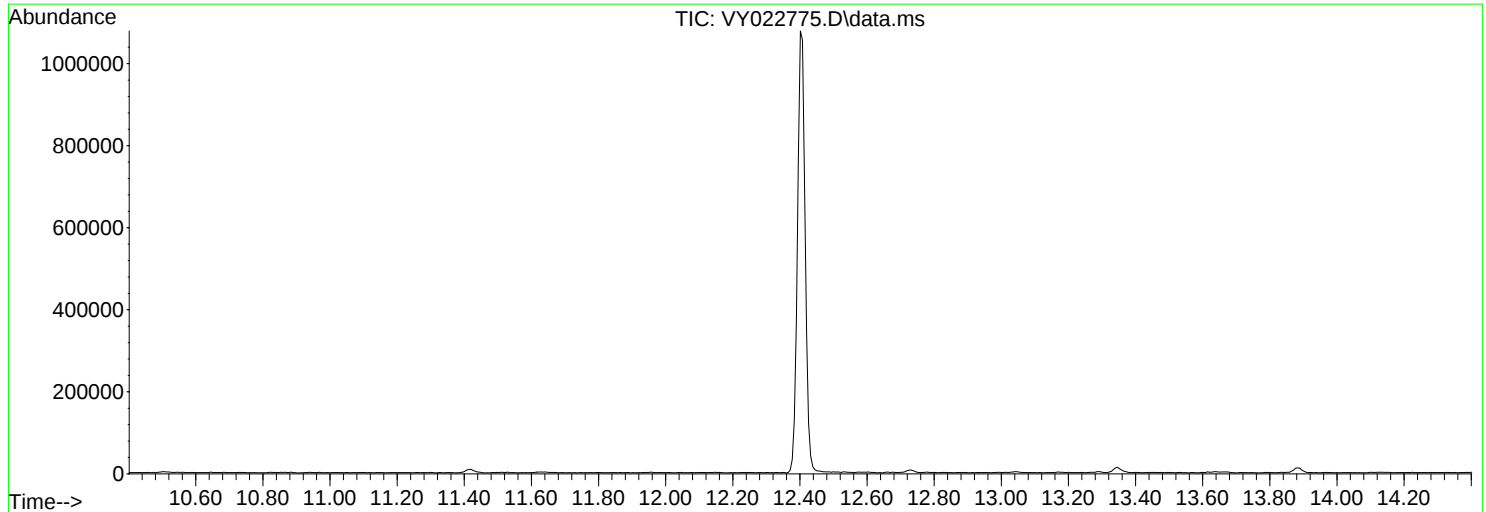
QC SAMPLE DATA

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

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

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



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

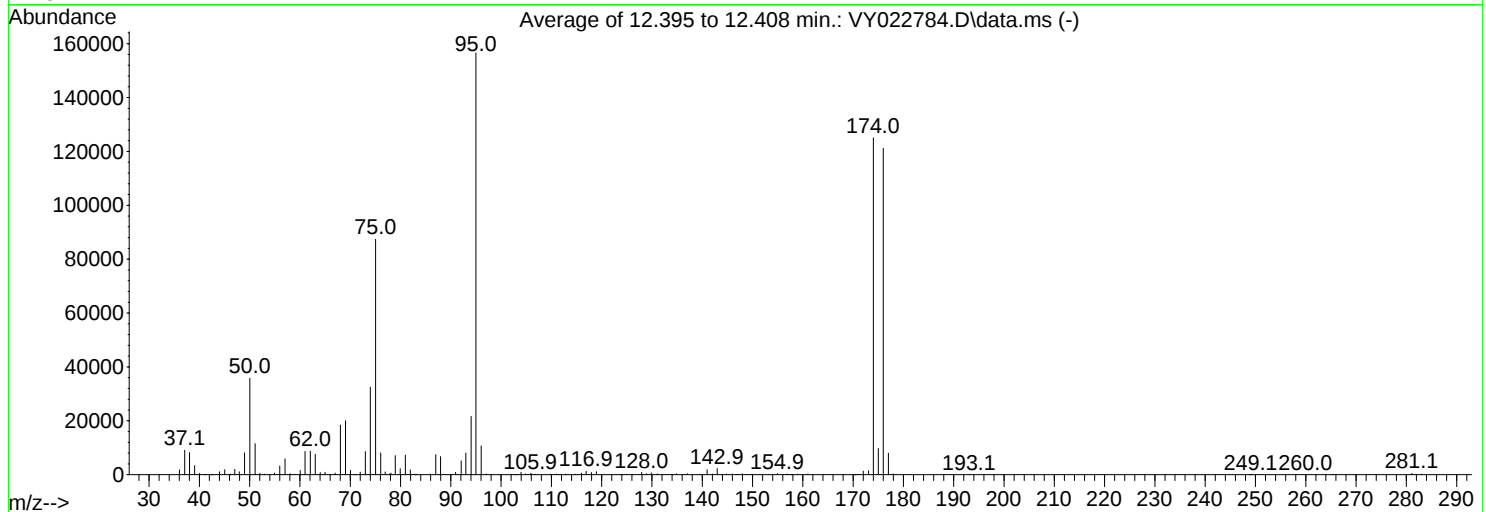
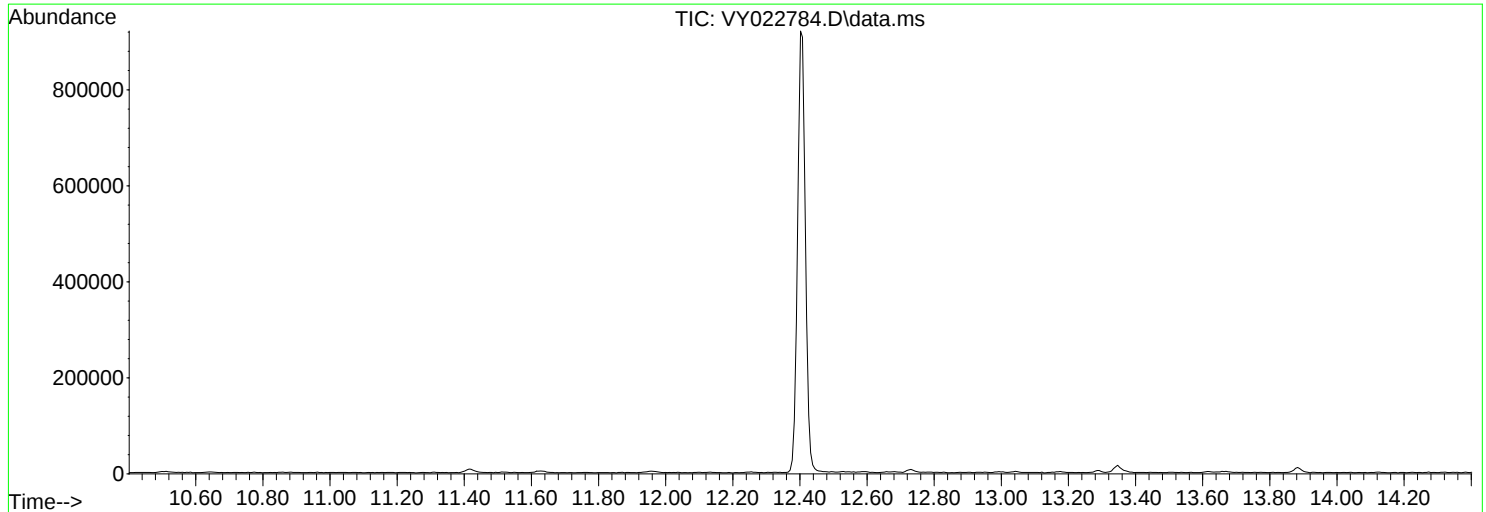
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	41667	PASS
75	95	30	60	56.2	102659	PASS
95	95	100	100	100.0	182635	PASS
96	95	5	9	6.8	12459	PASS
173	174	0.00	2	1.1	1700	PASS
174	95	50	100	81.9	149608	PASS
175	174	5	9	7.4	11034	PASS
176	174	95	101	95.5	142859	PASS
177	176	5	9	6.5	9270	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022784.D
Acq On : 24 Jun 2025 08:49
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

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



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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	35827	PASS
75	95	30	60	55.8	87387	PASS
95	95	100	100	100.0	156613	PASS
96	95	5	9	6.8	10696	PASS
173	174	0.00	2	1.2	1461	PASS
174	95	50	100	79.8	125053	PASS
175	174	5	9	7.7	9683	PASS
176	174	95	101	96.9	121219	PASS
177	176	5	9	6.6	7948	PASS

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	
Client Sample ID:	VY0624SBL01		SDG No.:	Q2393
Lab Sample ID:	VY0624SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022786.D	1		06/24/25 10:25	VY062425

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:	Union Paving & Construction Company			Date Collected:	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001			Date Received:	
Client Sample ID:	VY0624SBL01			SDG No.:	Q2393
Lab Sample ID:	VY0624SBL01			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022786.D	1		06/24/25 10:25	VY062425

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	54.5		63 - 155	109%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	49.2		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.8		17 - 146	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	301000	7.707			
540-36-3	1,4-Difluorobenzene	536000	8.61			
3114-55-4	Chlorobenzene-d5	453000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	171000	13.34			

Report of Analysis

Client:	Union Paving & Construction Company			Date Collected:	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001			Date Received:	
Client Sample ID:	VY0624SBL01			SDG No.:	Q2393
Lab Sample ID:	VY0624SBL01			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022786.D	1		06/24/25 10:25	VY062425

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\VY062425\
 Data File : VY022786.D
 Acq On : 24 Jun 2025 10:25
 Operator : SY/MD
 Sample : VY0624SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0624SBL01

Quant Time: Jun 25 01:20:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	300507	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	535641	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	452693	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	171409	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	182809	54.505	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	109.020%
35) Dibromofluoromethane	7.628	113	170594	52.369	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	104.740%
50) Toluene-d8	10.103	98	635701	49.179	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.360%
62) 4-Bromofluorobenzene	12.402	95	177906	42.813	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	85.620%

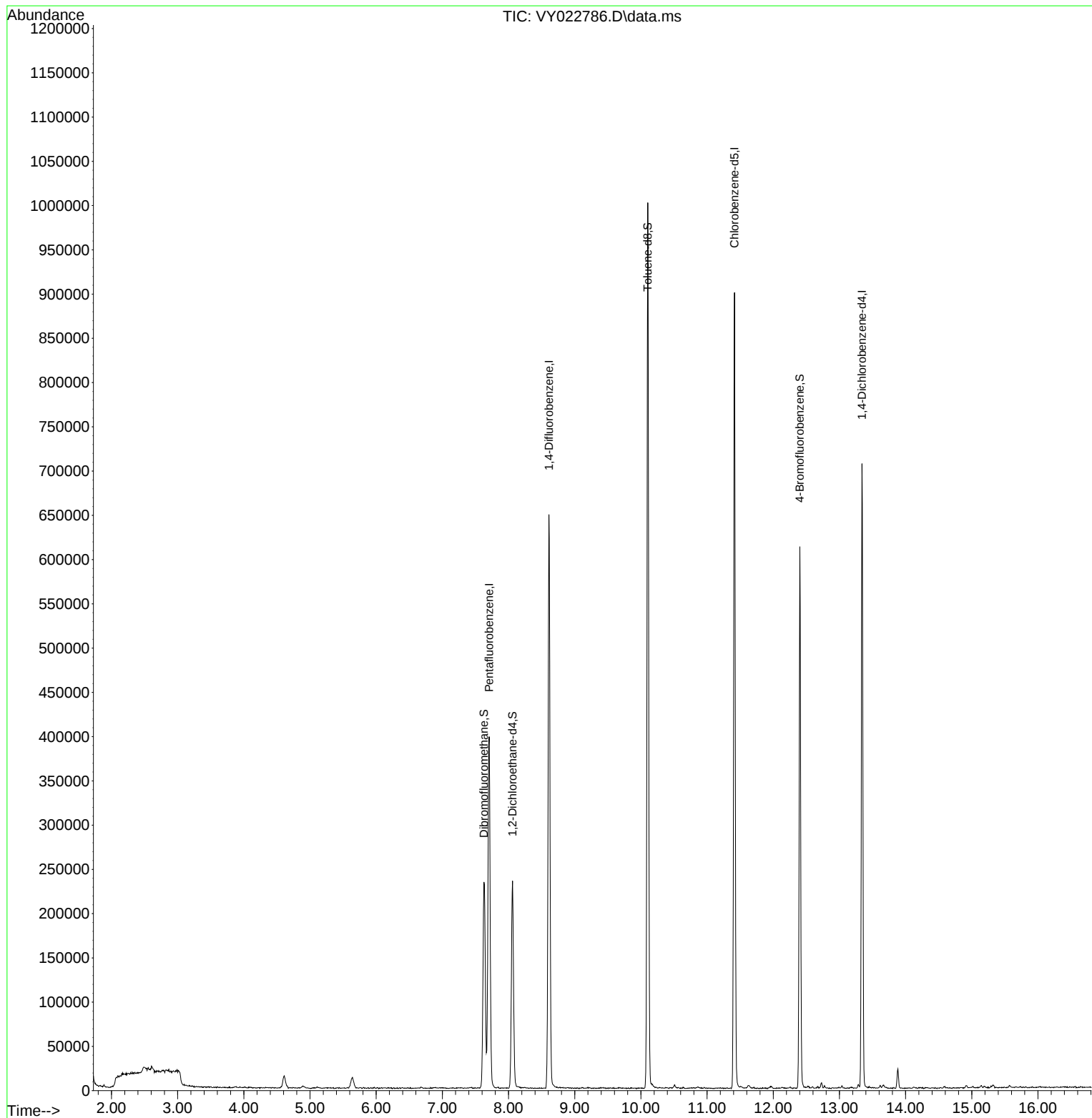
Target Compounds	Qvalue

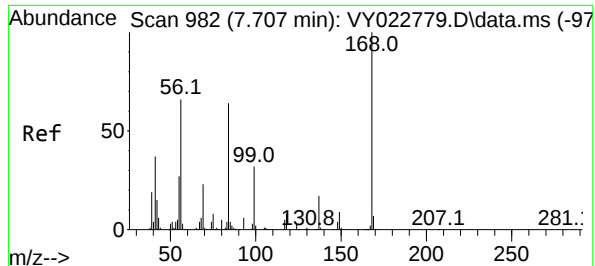
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022786.D
Acq On : 24 Jun 2025 10:25
Operator : SY/MD
Sample : VY0624SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0624SBL01

Quant Time: Jun 25 01:20:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

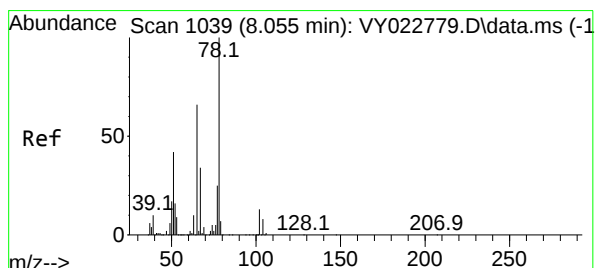
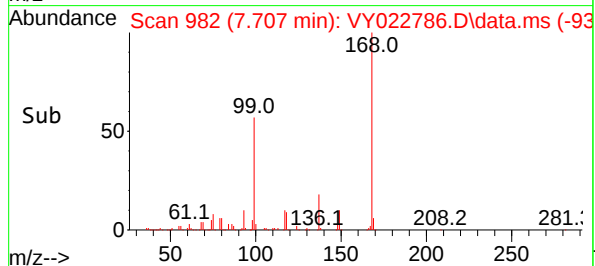
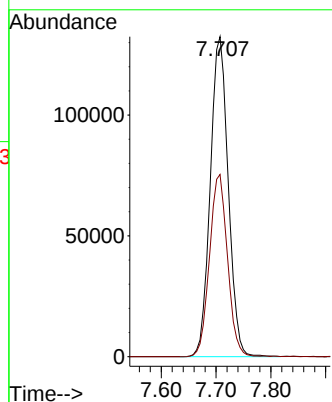
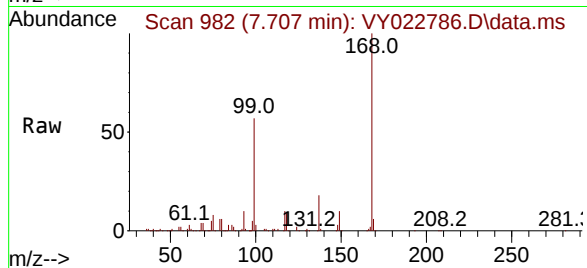




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022786.D
Acq: 24 Jun 2025 10:25

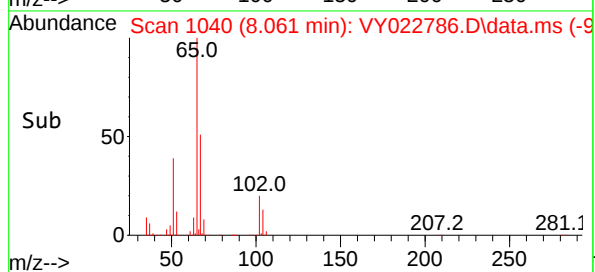
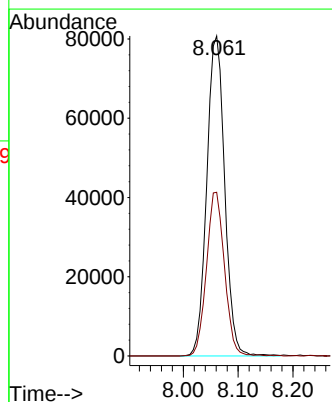
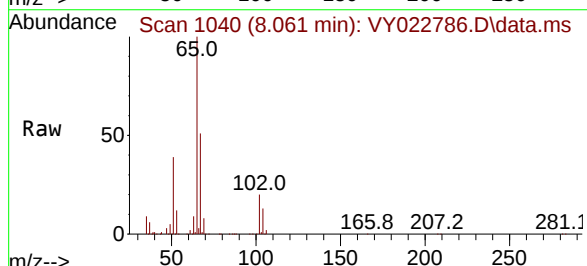
Instrument :
MSVOA_Y
ClientSampleId :
VY0624SBL01

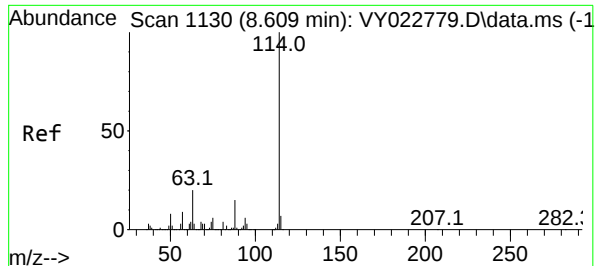
Tgt Ion:168 Resp: 300507
Ion Ratio Lower Upper
168 100
99 56.9 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 54.505 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022786.D
Acq: 24 Jun 2025 10:25

Tgt Ion: 65 Resp: 182809
Ion Ratio Lower Upper
65 100
67 51.5 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022786.D

Acq: 24 Jun 2025 10:25

Instrument :

MSVOA_Y

ClientSampleId :

VY0624SBL01

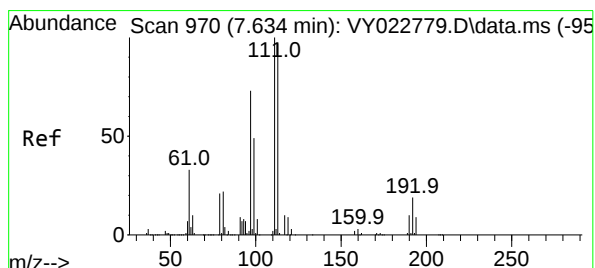
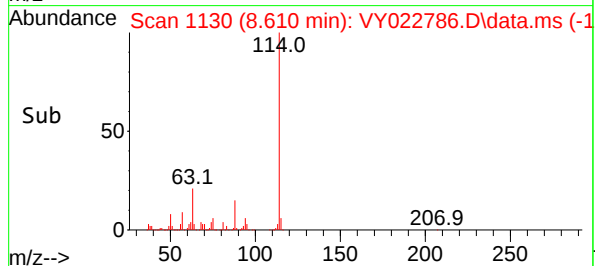
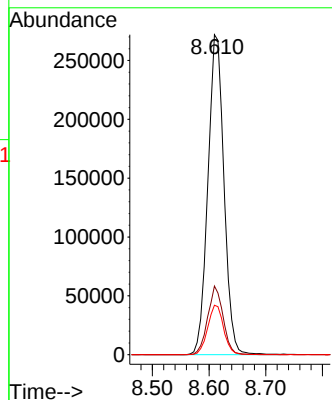
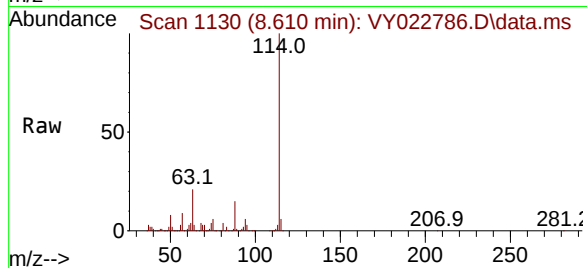
Tgt Ion:114 Resp: 535641

Ion Ratio Lower Upper

114 100

63 21.5 0.0 40.8

88 15.4 0.0 27.8



#35

Dibromofluoromethane

Concen: 52.369 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.012 min

Lab File: VY022786.D

Acq: 24 Jun 2025 10:25

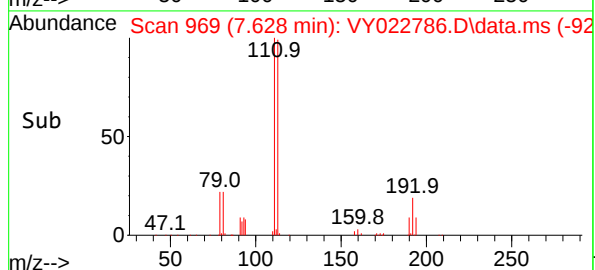
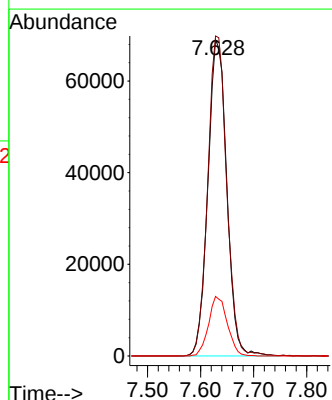
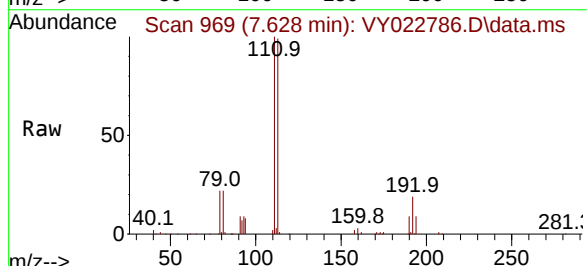
Tgt Ion:113 Resp: 170594

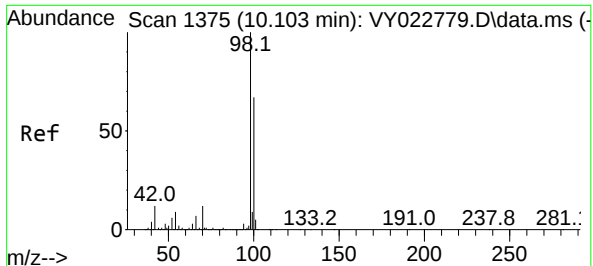
Ion Ratio Lower Upper

113 100

111 101.5 81.1 121.7

192 18.7 14.2 21.2

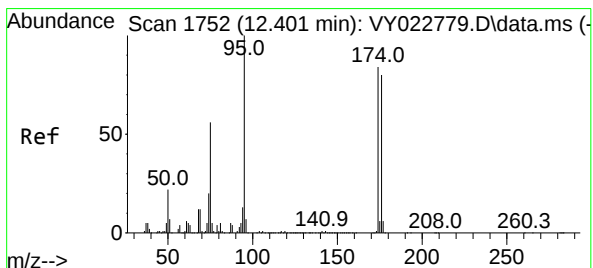
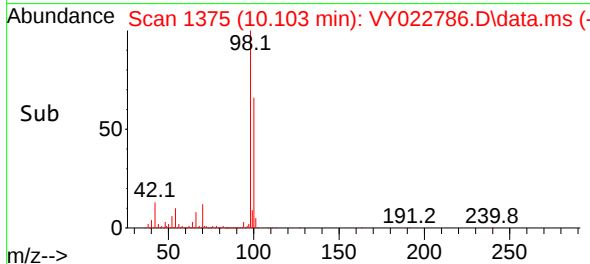
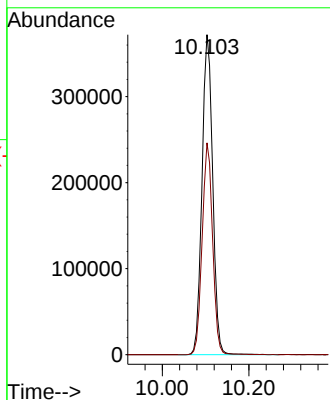
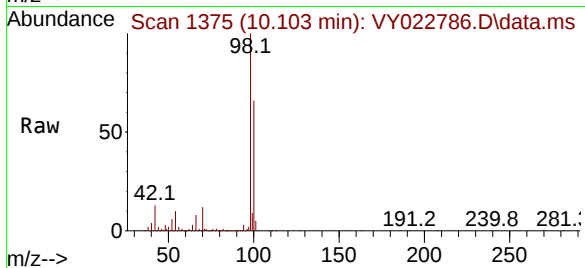




#50
Toluene-d8
Concen: 49.179 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022786.D
Acq: 24 Jun 2025 10:25

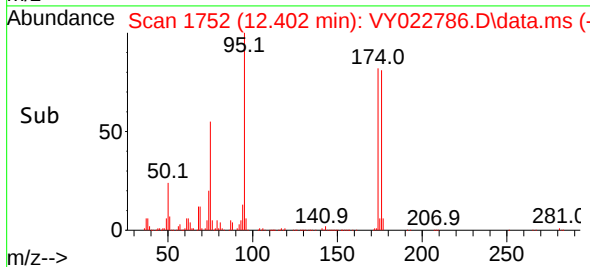
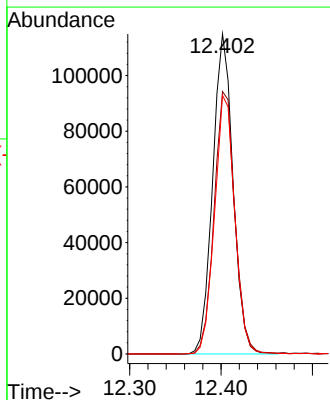
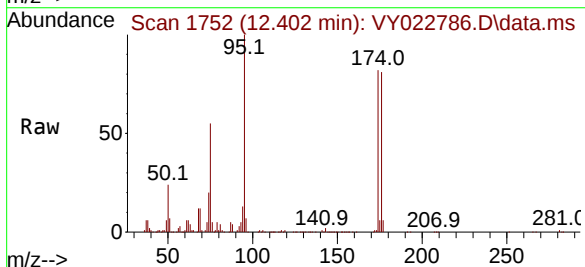
Instrument :
MSVOA_Y
ClientSampleId :
VY0624SBL01

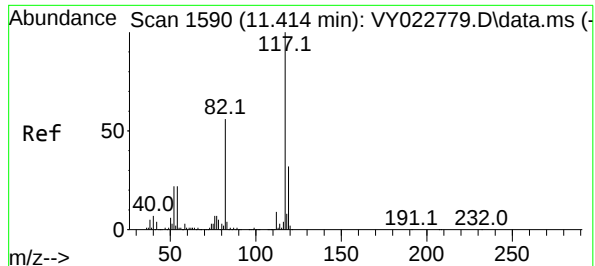
Tgt Ion: 98 Resp: 635701
Ion Ratio Lower Upper
98 100
100 64.8 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 42.813 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022786.D
Acq: 24 Jun 2025 10:25

Tgt Ion: 95 Resp: 177906
Ion Ratio Lower Upper
95 100
174 83.6 0.0 170.0
176 80.6 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY022786.D

Acq: 24 Jun 2025 10:25

Instrument :

MSVOA_Y

ClientSampleId :

VY0624SBL01

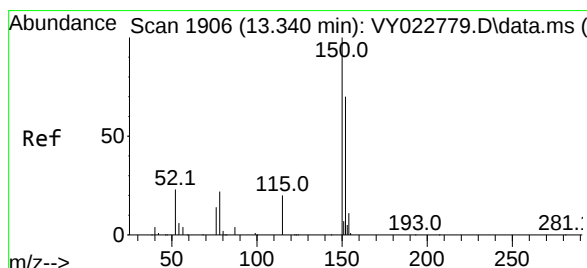
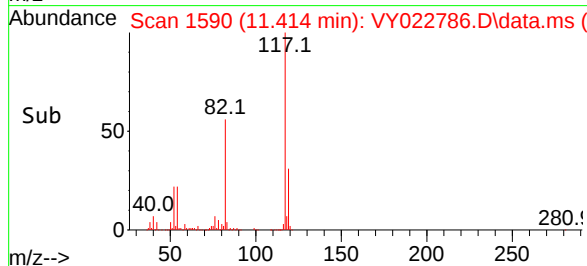
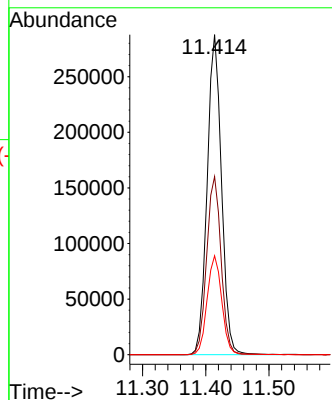
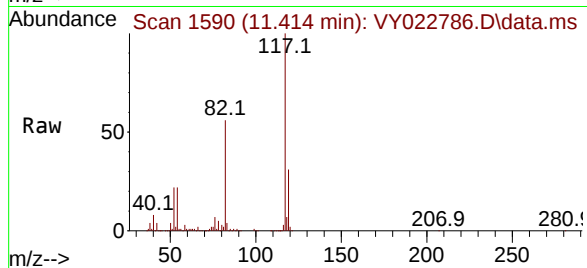
Tgt Ion:117 Resp: 452693

Ion Ratio Lower Upper

117 100

82 55.6 44.6 66.8

119 30.9 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY022786.D

Acq: 24 Jun 2025 10:25

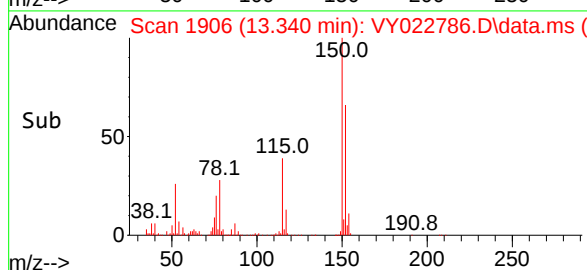
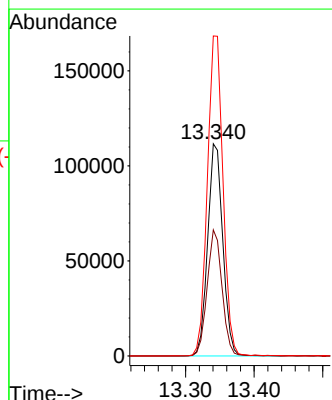
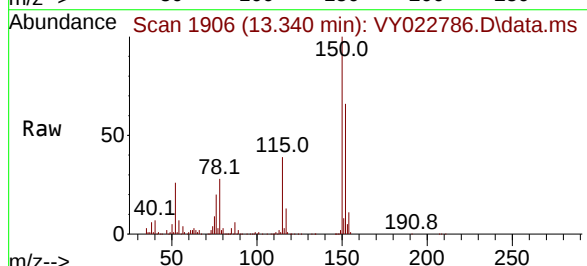
Tgt Ion:152 Resp: 171409

Ion Ratio Lower Upper

152 100

115 58.7 28.9 86.7

150 155.7 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022786.D
Acq On : 24 Jun 2025 10:25
Operator : SY/MD
Sample : VY0624SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0624SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

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

Title : SW846 8260

Signal : TIC: VY022786.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.074	50	58	60	rBV5	10406	24062	1.41%	0.279%
2	4.610	463	474	481	rBV3	13772	39856	2.34%	0.462%
3	5.641	633	643	651	rBV5	12228	37602	2.21%	0.436%
4	7.628	959	969	975	rBV	232756	565797	33.23%	6.562%
5	7.707	975	982	996	rVB	396496	915491	53.77%	10.617%
6	8.061	1029	1040	1050	rBV2	234440	523664	30.75%	6.073%
7	8.610	1122	1130	1149	rBV	648287	1282735	75.33%	14.877%
8	10.103	1365	1375	1383	rBV	1000922	1702759	100.00%	19.748%
9	11.414	1582	1590	1603	rBV	899440	1441043	84.63%	16.713%
10	12.402	1744	1752	1762	rBV	612077	966073	56.74%	11.204%
11	13.340	1900	1906	1918	rVB	704619	1087428	63.86%	12.611%
12	13.883	1989	1995	2002	rBV3	21846	36006	2.11%	0.418%

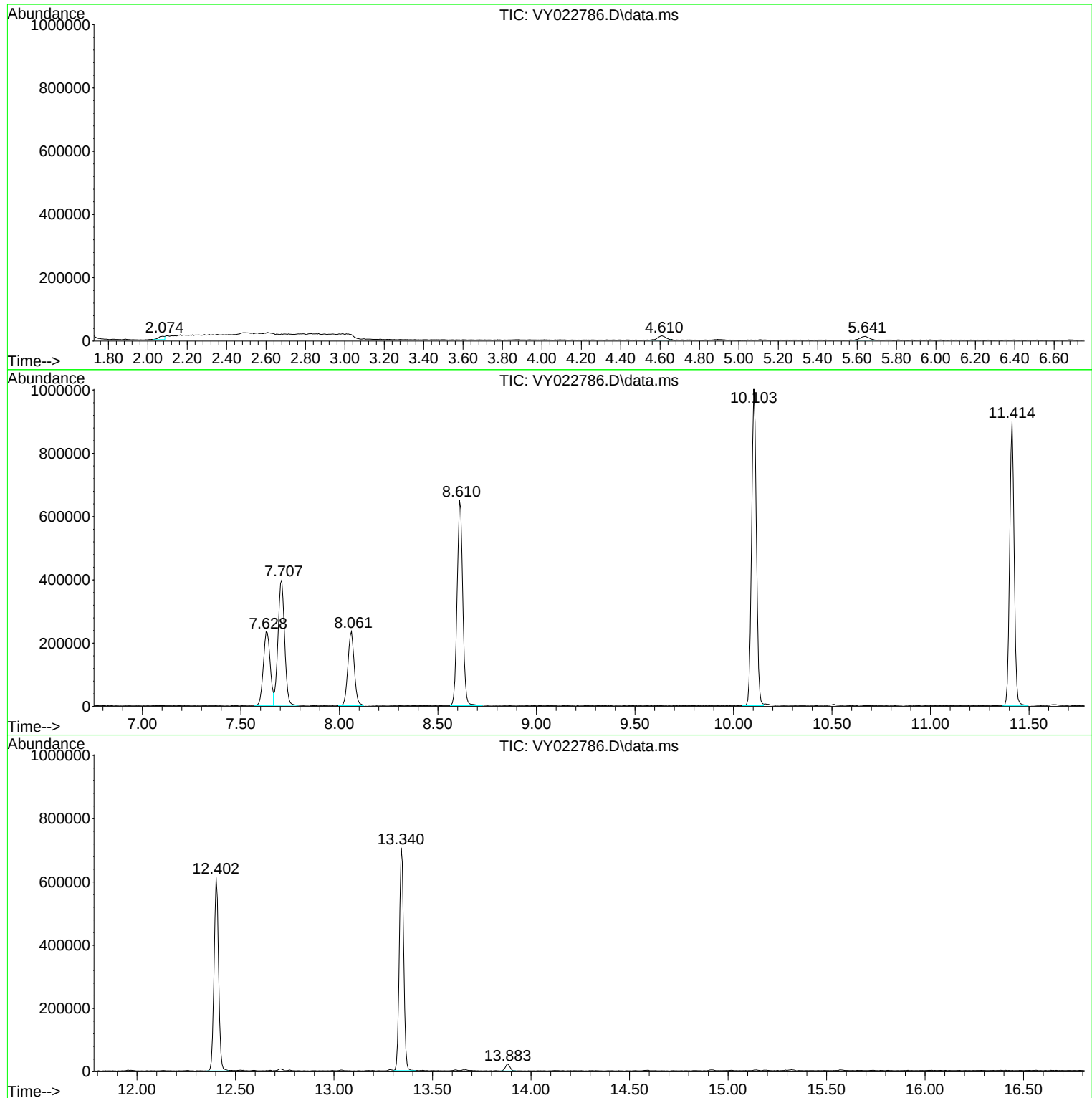
Sum of corrected areas: 8622516

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022786.D
Acq On : 24 Jun 2025 10:25
Operator : SY/MD
Sample : VY0624SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0624SBL01

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022786.D
Acq On : 24 Jun 2025 10:25
Operator : SY/MD
Sample : VY0624SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0624SBL01

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

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022786.D
Acq On : 24 Jun 2025 10:25
Operator : SY/MD
Sample : VY0624SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0624SBL01

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

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

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

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	
Client Sample ID:	VY0624SBS01		SDG No.:	Q2393
Lab Sample ID:	VY0624SBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022787.D	1		06/24/25 10:58	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.7		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.3		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.4		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.2		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.1		1.00	5.00	ug/Kg
67-64-1	Acetone	100		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.5		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.1		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	18.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.2		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.5		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.1		0.79	5.00	ug/Kg
78-93-3	2-Butanone	100		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.9		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.9		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	19.9		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.5		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	19.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	19.8		0.78	5.00	ug/Kg

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	
Client Sample ID:	VY0624SBS01		SDG No.:	Q2393
Lab Sample ID:	VY0624SBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022787.D	1		06/24/25 10:58	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.2		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.3		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	98.6		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.6		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.6		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.7		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.5		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.0		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.0		0.82	5.00	ug/Kg
100-42-5	Styrene	19.1		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.8		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.8		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.7		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.4		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.4		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.1		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	50.7		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		17 - 146	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	456000	7.701			
540-36-3	1,4-Difluorobenzene	766000	8.61			
3114-55-4	Chlorobenzene-d5	658000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	312000	13.34			

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	
Client Sample ID:	VY0624SBS01	SDG No.:	Q2393
Lab Sample ID:	VY0624SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022787.D	1		06/24/25 10:58	VY062425

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\VY062425\
 Data File : VY022787.D
 Acq On : 24 Jun 2025 10:58
 Operator : SY/MD
 Sample : VY0624SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0624SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025
 Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:21:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.701	168	456381	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.610	114	765818	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	658494	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	311846	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.055	65	258457	50.741	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 101.480%	
35) Dibromofluoromethane	7.628	113	237954	51.092	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.180%	
50) Toluene-d8	10.103	98	937358	50.720	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.440%	
62) 4-Bromofluorobenzene	12.402	95	288353	48.536	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 97.080%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	80681	20.674	ug/l	98
3) Chloromethane	2.068	50	151870	20.380	ug/l	99
4) Vinyl Chloride	2.202	62	189178	20.320	ug/l	99
5) Bromomethane	2.586	94	156887	21.435	ug/l	97
6) Chloroethane	2.726	64	126812	20.264	ug/l	95
7) Trichlorofluoromethane	3.043	101	207987	20.176	ug/l	96
8) Diethyl Ether	3.452	74	51539	20.242	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	96792	20.546	ug/l	98
10) Methyl Iodide	4.001	142	89629	17.474	ug/l	100
11) Tert butyl alcohol	4.866	59	33635	99.308	ug/l	97
12) 1,1-Dichloroethene	3.781	96	92667	20.060	ug/l	95
13) Acrolein	3.647	56	47424	103.260	ug/l	95
14) Allyl chloride	4.379	41	146217	20.579	ug/l	93
15) Acrylonitrile	5.055	53	107474	101.169	ug/l	99
16) Acetone	3.873	43	99768	103.629	ug/l	99
17) Carbon Disulfide	4.104	76	305830	20.494	ug/l	98
18) Methyl Acetate	4.379	43	59655	18.711	ug/l	98
19) Methyl tert-butyl Ether	5.110	73	252967	20.111	ug/l	96
20) Methylene Chloride	4.610	84	110970	18.252	ug/l	96
21) trans-1,2-Dichloroethene	5.104	96	106564	20.184	ug/l	94
22) Diisopropyl ether	6.012	45	321027	20.345	ug/l	96
23) Vinyl Acetate	5.958	43	906576	104.027	ug/l	100
24) 1,1-Dichloroethane	5.909	63	195430	20.504	ug/l	99
25) 2-Butanone	6.890	43	143746	102.588	ug/l	99
26) 2,2-Dichloropropane	6.884	77	164624	20.605	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	122077	19.899	ug/l	98
28) Bromochloromethane	7.238	49	82032	20.472	ug/l	95
29) Tetrahydrofuran	7.256	42	89736	101.422	ug/l	98
30) Chloroform	7.415	83	194987	19.863	ug/l	97
31) Cyclohexane	7.701	56	175827	20.097	ug/l	93
32) 1,1,1-Trichloroethane	7.610	97	173928	20.502	ug/l	99
36) 1,1-Dichloropropene	7.835	75	143801	20.370	ug/l	100
37) Ethyl Acetate	6.982	43	63401	20.813	ug/l	98
38) Carbon Tetrachloride	7.817	117	148557	19.944	ug/l	96
39) Methylcyclohexane	9.103	83	183335	20.068	ug/l	97
40) Benzene	8.079	78	436818	20.126	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022787.D
 Acq On : 24 Jun 2025 10:58
 Operator : SY/MD
 Sample : VY0624SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0624SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025
 Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:21:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	34505	18.399	ug/l	95
42) 1,2-Dichloroethane	8.158	62	119482	20.089	ug/l	99
43) Isopropyl Acetate	8.195	43	126183	19.930	ug/l	99
44) Trichloroethene	8.859	130	108598	19.929	ug/l	96
45) 1,2-Dichloropropane	9.140	63	102981	20.273	ug/l	97
46) Dibromomethane	9.225	93	57676	20.001	ug/l	95
47) Bromodichloromethane	9.420	83	152012	20.443	ug/l	97
48) Methyl methacrylate	9.219	41	59051	19.401	ug/l	93
49) 1,4-Dioxane	9.225	88	13754	403.709	ug/l	99
51) 4-Methyl-2-Pentanone	9.993	43	326652	101.528	ug/l	97
52) Toluene	10.164	92	270533	19.757	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	131291	19.624	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	156954	20.233	ug/l	95
55) 1,1,2-Trichloroethane	10.566	97	75639	20.257	ug/l	98
56) Ethyl methacrylate	10.438	69	96651	19.239	ug/l	97
57) 1,3-Dichloropropane	10.713	76	130811	20.079	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	237217	99.871	ug/l	98
59) 2-Hexanone	10.755	43	215777	98.645	ug/l	98
60) Dibromochloromethane	10.908	129	94732	19.641	ug/l	100
61) 1,2-Dibromoethane	11.012	107	69777	19.969	ug/l	97
64) Tetrachloroethene	10.646	164	115603	18.583	ug/l	96
65) Chlorobenzene	11.438	112	285635	19.741	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	94942	19.373	ug/l	99
67) Ethyl Benzene	11.518	91	494938	19.469	ug/l	97
68) m/p-Xylenes	11.627	106	383028	38.976	ug/l	100
69) o-Xylene	11.950	106	176241	19.033	ug/l	96
70) Styrene	11.963	104	296321	19.104	ug/l	100
71) Bromoform	12.127	173	51385	18.830	ug/l #	98
73) Isopropylbenzene	12.249	105	464061	20.121	ug/l	100
74) N-amyl acetate	12.066	43	105914	20.459	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.499	83	81128	21.826	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	64712m	20.326	ug/l	
77) Bromobenzene	12.523	156	103685	19.834	ug/l	100
78) n-propylbenzene	12.591	91	564023	20.256	ug/l	99
79) 2-Chlorotoluene	12.676	91	314954	20.020	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	370288	19.889	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.298	75	25639	20.346	ug/l	98
82) 4-Chlorotoluene	12.773	91	326505	19.758	ug/l	99
83) tert-Butylbenzene	12.993	119	327400	19.940	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	368212	19.754	ug/l	99
85) sec-Butylbenzene	13.170	105	491676	19.902	ug/l	99
86) p-Isopropyltoluene	13.285	119	405641	19.731	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	206895	19.706	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	203188	19.483	ug/l	99
89) n-Butylbenzene	13.615	91	378895	19.593	ug/l	99
90) Hexachloroethane	13.871	117	83492	20.390	ug/l	96
91) 1,2-Dichlorobenzene	13.651	146	179542	19.405	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.267	75	12253	19.439	ug/l	95
93) 1,2,4-Trichlorobenzene	14.913	180	99715	19.088	ug/l	99
94) Hexachlorobutadiene	15.017	225	56915	19.267	ug/l	98
95) Naphthalene	15.139	128	173849	18.403	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	85697	18.985	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022787.D
Acq On : 24 Jun 2025 10:58
Operator : SY/MD
Sample : VY0624SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0624SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:21:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

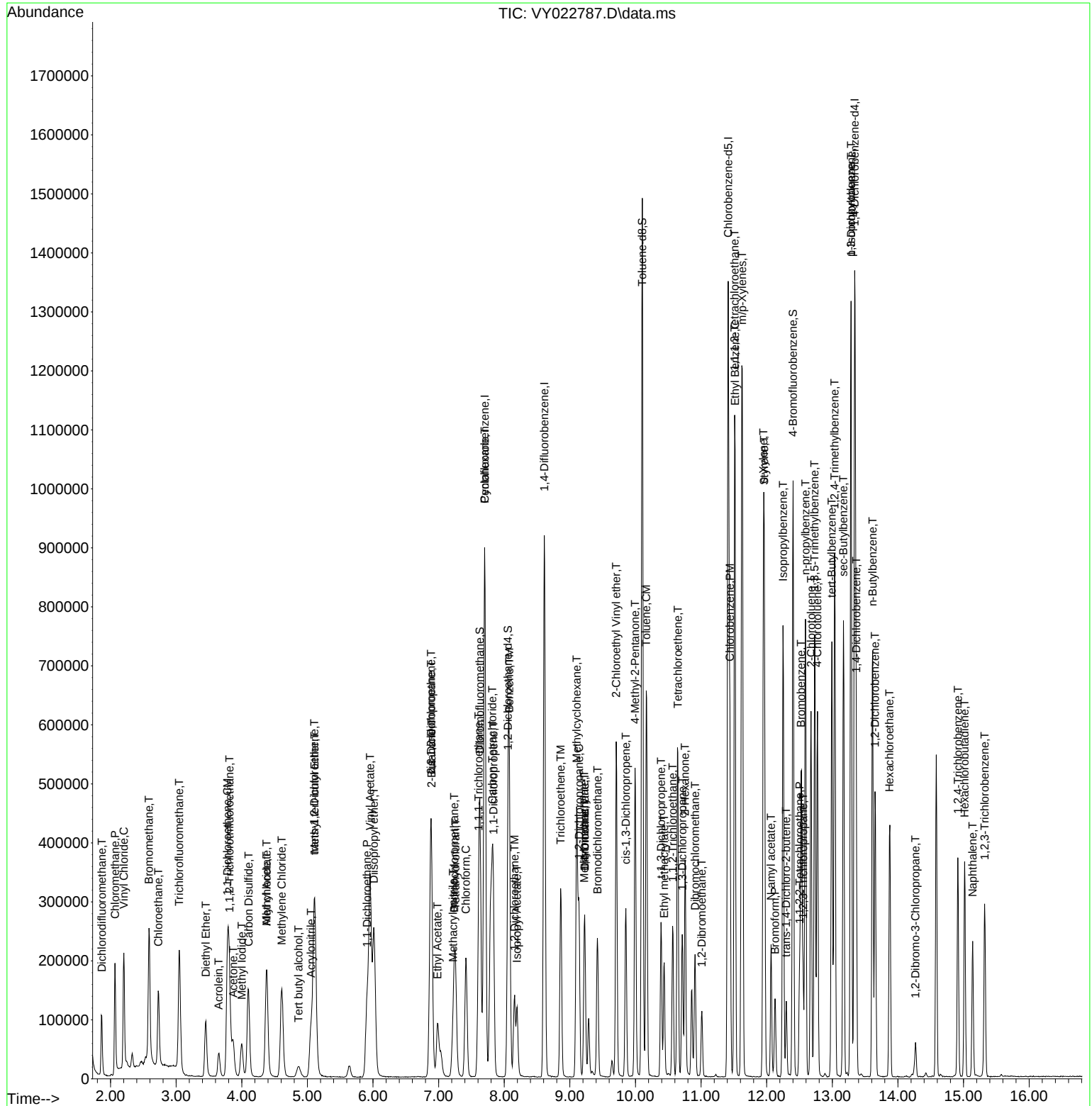
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022787.D
 Acq On : 24 Jun 2025 10:58
 Operator : SY/MD
 Sample : VY0624SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/soil
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0624SBS01

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 06/25/2025
 Supervised By : Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:21:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration



Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	
Client Sample ID:	VY0624SBSD01		SDG No.:	Q2393
Lab Sample ID:	VY0624SBSD01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022788.D	1		06/24/25 11:21	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.9		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.6		0.79	5.00	ug/Kg
74-83-9	Bromomethane	20.6		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.0		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.7		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.0		1.00	5.00	ug/Kg
67-64-1	Acetone	94.2		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.5		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.5		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	17.9		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.8		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	93.6		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.5		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.2		1.20	5.00	ug/Kg
67-66-3	Chloroform	19.7		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.4		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.3		0.91	5.00	ug/Kg
71-43-2	Benzene	20.2		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.6		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.0		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.9		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	95.0		3.60	25.0	ug/Kg
108-88-3	Toluene	20.0		0.78	5.00	ug/Kg



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

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001		Date Received:	
Client Sample ID:	VY0624SBSD01		SDG No.:	Q2393
Lab Sample ID:	VY0624SBSD01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022788.D	1		06/24/25 11:21	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.6		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.8		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	90.5		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.6		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.1		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.6		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.5		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.3		0.82	5.00	ug/Kg
100-42-5	Styrene	19.3		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.0		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.5		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.7		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.1		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.7		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.1		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.0		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.6		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	50.5		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		17 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	455000	7.707			
540-36-3	1,4-Difluorobenzene	752000	8.609			
3114-55-4	Chlorobenzene-d5	644000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	304000	13.34			

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	190 Park Ave Hanover Twp NJ - PO 2556-001	Date Received:	
Client Sample ID:	VY0624SBSD01	SDG No.:	Q2393
Lab Sample ID:	VY0624SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022788.D	1		06/24/25 11:21	VY062425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022788.D
 Acq On : 24 Jun 2025 11:21
 Operator : SY/MD
 Sample : VY0624SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0624SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025
 Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:22:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	454676	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	751533	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	644021	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	303566	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	246467	48.568	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.140%
35) Dibromofluoromethane	7.634	113	227031	49.674	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.340%
50) Toluene-d8	10.103	98	915700	50.490	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.980%
62) 4-Bromofluorobenzene	12.401	95	277996	47.682	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	95.360%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	83841	21.564	ug/l	100
3) Chloromethane	2.068	50	148016	19.937	ug/l	98
4) Vinyl Chloride	2.196	62	190974	20.590	ug/l	97
5) Bromomethane	2.586	94	149920	20.560	ug/l	100
6) Chloroethane	2.726	64	124997	20.048	ug/l	93
7) Trichlorofluoromethane	3.043	101	212732	20.713	ug/l	100
8) Diethyl Ether	3.446	74	49045	19.335	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.811	101	98481	20.983	ug/l	98
10) Methyl Iodide	4.000	142	94235	18.441	ug/l	100
11) Tert butyl alcohol	4.860	59	31222	92.529	ug/l #	73
12) 1,1-Dichloroethene	3.781	96	91858	19.960	ug/l	98
13) Acrolein	3.647	56	43455	94.972	ug/l	99
14) Allyl chloride	4.378	41	140797	19.890	ug/l	95
15) Acrylonitrile	5.049	53	101092	95.519	ug/l	99
16) Acetone	3.860	43	90320	94.167	ug/l	99
17) Carbon Disulfide	4.098	76	304896	20.508	ug/l	99
18) Methyl Acetate	4.378	43	55496	17.471	ug/l	98
19) Methyl tert-butyl Ether	5.104	73	239186	19.087	ug/l	98
20) Methylene Chloride	4.604	84	108504	17.913	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	104363	19.842	ug/l	96
22) Diisopropyl ether	6.018	45	314393	19.999	ug/l	97
23) Vinyl Acetate	5.957	43	854467	98.416	ug/l	99
24) 1,1-Dichloroethane	5.909	63	192393	20.261	ug/l	99
25) 2-Butanone	6.890	43	130645	93.588	ug/l	98
26) 2,2-Dichloropropane	6.878	77	160327	20.142	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	119261	19.513	ug/l	99
28) Bromochloromethane	7.238	49	80516	20.169	ug/l	94
29) Tetrahydrofuran	7.256	42	81271	92.199	ug/l	98
30) Chloroform	7.414	83	192735	19.707	ug/l	92
31) Cyclohexane	7.695	56	175872	20.177	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	172060	20.358	ug/l	99
36) 1,1-Dichloropropene	7.829	75	140846	20.331	ug/l	100
37) Ethyl Acetate	6.982	43	56563	18.921	ug/l	97
38) Carbon Tetrachloride	7.811	117	150312	20.563	ug/l	99
39) Methylcyclohexane	9.103	83	182366	20.342	ug/l	99
40) Benzene	8.079	78	429271	20.154	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022788.D
 Acq On : 24 Jun 2025 11:21
 Operator : SY/MD
 Sample : VY0624SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0624SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025
 Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:22:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	36099m	19.615	ug/l	
42) 1,2-Dichloroethane	8.152	62	118209	20.253	ug/l	99
43) Isopropyl Acetate	8.195	43	117125	18.851	ug/l	97
44) Trichloroethene	8.859	130	110197	20.606	ug/l	99
45) 1,2-Dichloropropane	9.140	63	99722	20.004	ug/l	97
46) Dibromomethane	9.225	93	54686	19.325	ug/l	96
47) Bromodichloromethane	9.420	83	145543	19.945	ug/l	100
48) Methyl methacrylate	9.219	41	57360	19.204	ug/l	95
49) 1,4-Dioxane	9.225	88	12854	384.463	ug/l	94
51) 4-Methyl-2-Pentanone	9.993	43	299993	95.014	ug/l	98
52) Toluene	10.170	92	268868	20.009	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	126826	19.317	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	149508	19.639	ug/l	98
55) 1,1,2-Trichloroethane	10.566	97	72385	19.754	ug/l	99
56) Ethyl methacrylate	10.438	69	89037	18.060	ug/l	97
57) 1,3-Dichloropropane	10.713	76	125029	19.557	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	230138	98.911	ug/l	99
59) 2-Hexanone	10.755	43	194180	90.459	ug/l	97
60) Dibromochloromethane	10.908	129	92711	19.588	ug/l	97
61) 1,2-Dibromoethane	11.011	107	65644	19.144	ug/l	96
64) Tetrachloroethene	10.646	164	131649	21.638	ug/l	97
65) Chlorobenzene	11.438	112	284096	20.076	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	92635	19.327	ug/l	99
67) Ethyl Benzene	11.517	91	499591	20.093	ug/l	99
68) m/p-Xylenes	11.627	106	379372	39.471	ug/l	99
69) o-Xylene	11.950	106	174833	19.305	ug/l	98
70) Styrene	11.962	104	293422	19.343	ug/l	99
71) Bromoform	12.127	173	50804	19.036	ug/l #	98
73) Isopropylbenzene	12.249	105	460433	20.509	ug/l	99
74) N-amyl acetate	12.066	43	99500	19.745	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.499	83	67748	18.724	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	61464m	19.833	ug/l	
77) Bromobenzene	12.523	156	102341	20.111	ug/l	99
78) n-propylbenzene	12.590	91	563511	20.789	ug/l	99
79) 2-Chlorotoluene	12.676	91	313424	20.466	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	370540	20.445	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	22608	18.430	ug/l	92
82) 4-Chlorotoluene	12.773	91	323940	20.138	ug/l	99
83) tert-Butylbenzene	12.993	119	325208	20.346	ug/l	99
84) 1,2,4-Trimethylbenzene	13.035	105	365641	20.151	ug/l	100
85) sec-Butylbenzene	13.169	105	494743	20.573	ug/l	99
86) p-Isopropyltoluene	13.285	119	404814	20.228	ug/l	100
87) 1,3-Dichlorobenzene	13.279	146	205201	20.078	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	199889	19.689	ug/l	98
89) n-Butylbenzene	13.615	91	383849	20.391	ug/l	99
90) Hexachloroethane	13.871	117	85343	21.411	ug/l	98
91) 1,2-Dichlorobenzene	13.651	146	178210	19.787	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	11713	19.089	ug/l	97
93) 1,2,4-Trichlorobenzene	14.913	180	101486	19.957	ug/l	97
94) Hexachlorobutadiene	15.017	225	59456	20.676	ug/l	97
95) Naphthalene	15.139	128	172250	18.731	ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	85584	19.477	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022788.D
Acq On : 24 Jun 2025 11:21
Operator : SY/MD
Sample : VY0624SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0624SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:22:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration

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

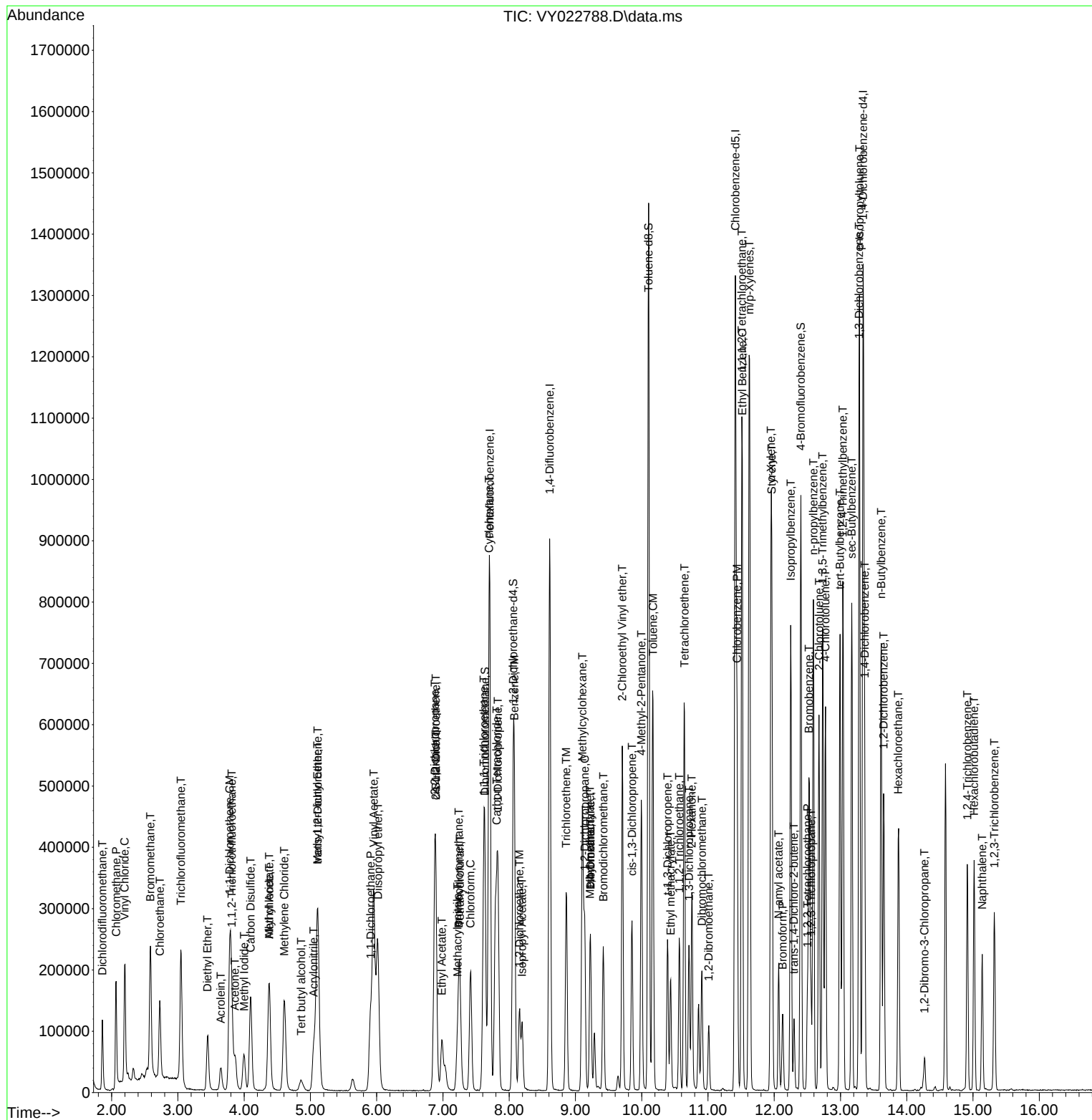
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022788.D
 Acq On : 24 Jun 2025 11:21
 Operator : SY/MD
 Sample : VY0624SBSD01
 Misc : 5.00g/5.0mL/MSVOA_Y/soil
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0624SBSD01

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 06/25/2025
 Supervised By : Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 01:22:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration



Manual Integration Report

Sequence:	VY062325	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022776.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:24:02 AM	Sam	6/24/2025 8:27:42 AM	Peak Integrated by Software
VSTDICC005	VY022776.D	Methacrylonitrile	MMDadod a	6/24/2025 8:24:02 AM	Sam	6/24/2025 8:27:42 AM	Peak Integrated by Software
VSTDICC010	VY022777.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:23:58 AM	Sam	6/24/2025 8:27:46 AM	Peak Integrated by Software
VSTDICC010	VY022777.D	Methacrylonitrile	MMDadod a	6/24/2025 8:23:58 AM	Sam	6/24/2025 8:27:46 AM	Peak Integrated by Software
VSTDICC020	VY022778.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:24:01 AM	Sam	6/24/2025 8:27:48 AM	Peak Integrated by Software
VSTDICC020	VY022778.D	Methacrylonitrile	MMDadod a	6/24/2025 8:24:01 AM	Sam	6/24/2025 8:27:48 AM	Peak Integrated by Software
VSTDICCC050	VY022779.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:24:00 AM	Sam	6/24/2025 8:27:51 AM	Peak Integrated by Software
VSTDICC100	VY022780.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:23:59 AM	Sam	6/24/2025 8:27:52 AM	Peak Integrated by Software
VSTDICC150	VY022781.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:24:03 AM	Sam	6/24/2025 8:27:53 AM	Peak Integrated by Software
VSTDICV050	VY022783.D	1,2,3-Trichloropropane	MMDadod a	6/24/2025 8:24:03 AM	Sam	6/24/2025 8:27:54 AM	Peak Integrated by Software
VSTDICV050	VY022783.D	Methacrylonitrile	MMDadod a	6/24/2025 8:24:03 AM	Sam	6/24/2025 8:27:54 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

vy062425

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022785.D	1,2,3-Trichloropropane	MMDadoda	6/25/2025 12:32:01 PM	Sam	6/25/2025 12:35:13 PM	Peak Integrated by Software
VY0624SBS01	VY022787.D	1,2,3-Trichloropropane	MMDadoda	6/25/2025 12:32:02 PM	Sam	6/25/2025 12:35:15 PM	Peak Integrated by Software
VY0624SBSD0 1	VY022788.D	1,2,3-Trichloropropane	MMDadoda	6/25/2025 12:32:04 PM	Sam	6/25/2025 12:35:14 PM	Peak Integrated by Software
VY0624SBSD0 1	VY022788.D	Methacrylonitrile	MMDadoda	6/25/2025 12:32:04 PM	Sam	6/25/2025 12:35:14 PM	Peak Integrated by Software
VSTDCCC050	VY022809.D	1,2,3-Trichloropropane	MMDadoda	6/25/2025 12:32:08 PM	Sam	6/25/2025 12:35:09 PM	Peak Integrated by Software

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY062325

Review By	Mahesh Dadoda	Review On	6/24/2025 8:24:26 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/24/2025 8:29:32 AM		
SubDirectory	VY062325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP134461			
Initial Calibration Stds		VP134462,VP134463,VP134464,VP134465,VP134466,VP134467			
CCC					
Internal Standard/PEM		VP133934			
ICV/I.BLK		VP134468			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022775.D	23 Jun 2025 10:17	SY/MD	Ok
2	VSTDIC005	VY022776.D	23 Jun 2025 13:38	SY/MD	Ok,M
3	VSTDIC010	VY022777.D	23 Jun 2025 14:00	SY/MD	Ok,M
4	VSTDIC020	VY022778.D	23 Jun 2025 14:23	SY/MD	Ok,M
5	VSTDIC050	VY022779.D	23 Jun 2025 14:46	SY/MD	Ok,M
6	VSTDIC100	VY022780.D	23 Jun 2025 15:08	SY/MD	Ok,M
7	VSTDIC150	VY022781.D	23 Jun 2025 15:31	SY/MD	Ok,M
8	VIBLK	VY022782.D	23 Jun 2025 15:54	SY/MD	Ok
9	VSTDICV050	VY022783.D	23 Jun 2025 16:17	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY062425

Review By	Mahesh Dadoda	Review On	6/25/2025 12:32:22 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/25/2025 12:35:55 PM		
SubDirectory	VY062425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134483			
CCC		VP134483,VP134485			
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	VY022784.D	24 Jun 2025 08:49	SY/MD	Ok
2	VSTDCCC050	VY022785.D	24 Jun 2025 09:20	SY/MD	Ok,M
3	VY0624SBL01	VY022786.D	24 Jun 2025 10:25	SY/MD	Ok
4	VY0624SBS01	VY022787.D	24 Jun 2025 10:58	SY/MD	Ok,M
5	VY0624SBSD01	VY022788.D	24 Jun 2025 11:21	SY/MD	Ok,M
6	Q2386-01	VY022789.D	24 Jun 2025 11:58	SY/MD	ReRun
7	Q2383-01RE	VY022790.D	24 Jun 2025 12:22	SY/MD	Not Ok
8	Q2384-01RE	VY022791.D	24 Jun 2025 12:45	SY/MD	Confirms
9	Q2355-03	VY022792.D	24 Jun 2025 13:09	SY/MD	Not Ok
10	Q2363-01	VY022793.D	24 Jun 2025 13:32	SY/MD	Dilution
11	Q2392-02	VY022794.D	24 Jun 2025 13:55	SY/MD	Ok
12	Q2393-02	VY022795.D	24 Jun 2025 14:19	SY/MD	Ok
13	Q2393-04	VY022796.D	24 Jun 2025 14:42	SY/MD	Ok
14	Q2393-06	VY022797.D	24 Jun 2025 15:06	SY/MD	Ok
15	Q2393-08	VY022798.D	24 Jun 2025 15:29	SY/MD	Ok
16	Q2393-10	VY022799.D	24 Jun 2025 15:52	SY/MD	Ok
17	Q2393-12	VY022800.D	24 Jun 2025 16:16	SY/MD	Ok
18	Q2394-03	VY022801.D	24 Jun 2025 16:39	SY/MD	Ok
19	Q2399-03	VY022802.D	24 Jun 2025 17:03	SY/MD	Ok
20	Q2399-07	VY022803.D	24 Jun 2025 17:26	SY/MD	Ok
21	Q2403-03	VY022804.D	24 Jun 2025 17:50	SY/MD	ReRun

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY062425

Review By	Maresh Dadoda	Review On	6/25/2025 12:32:22 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/25/2025 12:35:55 PM		
SubDirectory	VY062425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134483			
CCC		VP134483,VP134485			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2403-07	VY022805.D	24 Jun 2025 18:13	SY/MD	Ok
23	Q2398-03	VY022806.D	24 Jun 2025 18:36	SY/MD	Ok
24	Q2398-06	VY022807.D	24 Jun 2025 19:00	SY/MD	Not Ok
25	VIBLK	VY022808.D	24 Jun 2025 19:23	SY/MD	Ok
26	VSTDCCC050	VY022809.D	24 Jun 2025 20:09	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY062325

Review By	Mahesh Dadoda	Review On	6/24/2025 8:24:26 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/24/2025 8:29:32 AM		
SubDirectory	VY062325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134461
Initial Calibration Stds	VP134462,VP134463,VP134464,VP134465,VP134466,VP134467
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134468
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022775.D	23 Jun 2025 10:17		SY/MD	Ok
2	VSTDIC005	VSTDIC005	VY022776.D	23 Jun 2025 13:38	LR- 58	SY/MD	Ok,M
3	VSTDIC010	VSTDIC010	VY022777.D	23 Jun 2025 14:00		SY/MD	Ok,M
4	VSTDIC020	VSTDIC020	VY022778.D	23 Jun 2025 14:23		SY/MD	Ok,M
5	VSTDIC050	VSTDIC050	VY022779.D	23 Jun 2025 14:46		SY/MD	Ok,M
6	VSTDIC100	VSTDIC100	VY022780.D	23 Jun 2025 15:08		SY/MD	Ok,M
7	VSTDIC150	VSTDIC150	VY022781.D	23 Jun 2025 15:31		SY/MD	Ok,M
8	VIBLK	VIBLK	VY022782.D	23 Jun 2025 15:54		SY/MD	Ok
9	VSTDICV050	ICVVY062325	VY022783.D	23 Jun 2025 16:17		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY062425

Review By	Mahesh Dadoda	Review On	6/25/2025 12:32:22 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/25/2025 12:35:55 PM
SubDirectory	VY062425	HP Acquire Method	MSVOA_Y HP Processing Method 82y062325s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134483
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134483,VP134485 VP133934

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022784.D	24 Jun 2025 08:49		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022785.D	24 Jun 2025 09:20		SY/MD	Ok,M
3	VY0624SBL01	VY0624SBL01	VY022786.D	24 Jun 2025 10:25		SY/MD	Ok
4	VY0624SBS01	VY0624SBS01	VY022787.D	24 Jun 2025 10:58		SY/MD	Ok,M
5	VY0624SBSD01	VY0624SBSD01	VY022788.D	24 Jun 2025 11:21		SY/MD	Ok,M
6	Q2386-01	SU-1-062025	VY022789.D	24 Jun 2025 11:58	vial-A Internal Standard Fail	SY/MD	ReRun
7	Q2383-01RE	RT-5376RE	VY022790.D	24 Jun 2025 12:22	vial-B Internal standard fail;Not match with first run	SY/MD	Not Ok
8	Q2384-01RE	OK-01-6202025RE	VY022791.D	24 Jun 2025 12:45	vial-B Internal Standard Fail	SY/MD	Confirms
9	Q2355-03	20071	VY022792.D	24 Jun 2025 13:09	vial-A not purge	SY/MD	Not Ok
10	Q2363-01	GCAP1	VY022793.D	24 Jun 2025 13:32	vial-A Surrogate fail ;Need MeOH	SY/MD	Dilution
11	Q2392-02	S-1A	VY022794.D	24 Jun 2025 13:55	vial-A	SY/MD	Ok
12	Q2393-02	PARK AVE -1	VY022795.D	24 Jun 2025 14:19	vial-A	SY/MD	Ok
13	Q2393-04	PARK AVE -2	VY022796.D	24 Jun 2025 14:42	vial-A	SY/MD	Ok
14	Q2393-06	PARK AVE -3	VY022797.D	24 Jun 2025 15:06	vial-A	SY/MD	Ok
15	Q2393-08	PARK AVE -4	VY022798.D	24 Jun 2025 15:29	vial-A	SY/MD	Ok
16	Q2393-10	PARK AVE -5	VY022799.D	24 Jun 2025 15:52	vial-A	SY/MD	Ok
17	Q2393-12	PARK AVE -6	VY022800.D	24 Jun 2025 16:16	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY062425

Review By	Mahesh Dadoda	Review On	6/25/2025 12:32:22 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/25/2025 12:35:55 PM		
SubDirectory	VY062425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y062325s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134483			
CCC		VP134483,VP134485			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	Q2394-03	MH-K/L VOC	VY022801.D	24 Jun 2025 16:39	vial-A	SY/MD	Ok
19	Q2399-03	TP-13-VOC	VY022802.D	24 Jun 2025 17:03	vial-A	SY/MD	Ok
20	Q2399-07	EP-7-VOC	VY022803.D	24 Jun 2025 17:26	vial-A	SY/MD	Ok
21	Q2403-03	LAW-25-0093	VY022804.D	24 Jun 2025 17:50	vial-A Internal Standard Fail	SY/MD	ReRun
22	Q2403-07	ARS 20-0006	VY022805.D	24 Jun 2025 18:13	vial-A	SY/MD	Ok
23	Q2398-03	M00-25-0179	VY022806.D	24 Jun 2025 18:36	vial-A	SY/MD	Ok
24	Q2398-06	ARS20-0036	VY022807.D	24 Jun 2025 19:00	vial-A Not purge	SY/MD	Not Ok
25	VIBLK	VIBLK	VY022808.D	24 Jun 2025 19:23		SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY022809.D	24 Jun 2025 20:09		SY/MD	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/25/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
In Date: 06/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 06/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB136243

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
Q2392-01	S-1	1	1.15	10.05	11.2	10.42	92.2	
Q2392-02	S-1A	2	1.18	10.49	11.67	10.97	93.3	
Q2393-01	PARK AVE -1	3	1.17	10.34	11.51	9.78	83.3	
Q2393-02	PARK AVE -1	4	1.15	10.07	11.22	9.4	81.9	
Q2393-03	PARK AVE -2	5	1.13	10.85	11.98	10.19	83.5	
Q2393-04	PARK AVE -2	6	1.19	10.26	11.45	9.55	81.5	
Q2393-05	PARK AVE -3	7	1.12	10.25	11.37	10.00	86.6	
Q2393-06	PARK AVE -3	8	1.15	10.84	11.99	10.5	86.3	
Q2393-07	PARK AVE -4	9	1.16	10.70	11.86	10.54	87.7	
Q2393-08	PARK AVE -4	10	1.19	9.86	11.05	9.84	87.7	
Q2393-09	PARK AVE -5	11	1.15	10.84	11.99	11.05	91.3	
Q2393-10	PARK AVE -5	12	1.15	9.95	11.1	9.95	88.4	
Q2393-11	PARK AVE -6	13	1.19	10.23	11.42	10.07	86.8	
Q2393-12	PARK AVE -6	14	1.17	10.52	11.69	10.4	87.7	
Q2394-01	MH-K/L	15	1.18	10.49	11.67	10.23	86.3	
Q2394-02	MH-K/L EPH	16	1.19	9.97	11.16	9.58	84.2	
Q2394-03	MH-K/L VOC	17	1.13	10.86	11.99	10.66	87.8	
Q2394-04	MH-K/L	18	1.18	10.49	11.67	10.23	86.3	
Q2396-01	245F53-1-1	19	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-02	245F53-1-2	20	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-03	LAW-25-1A	21	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-04	LAW-25-1B	22	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-05	LAW-25-2A	23	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-06	LAW-25-2B	24	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-07	LAW-25-3A	25	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-08	LAW-25-3B	26	1.00	1.00	2.00	2.00	100.0	oilc
Q2398-01	M00-25-0169	27	1.00	1.00	2.00	2.00	100.0	oil sample
Q2398-03	M00-25-0179	28	1.19	10.07	11.26	7.63	64.0	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/25/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
In Date: 06/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 06/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB136243

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
Q2398-04	M00-25-0179-E2	29	1.19	10.25	11.44	7.68	63.3	
Q2398-06	ARS20-0036	30	1.19	10.53	11.72	10.47	88.1	
Q2398-07	ARS20-0036-E2	31	1.12	10.77	11.89	10.9	90.8	
Q2399-01	TP-13	32	1.13	10.84	11.97	10.27	84.3	
Q2399-02	TP-13-EPH	33	1.19	10.36	11.55	9.96	84.7	
Q2399-03	TP-13-VOC	34	1.15	10.84	11.99	10.36	85.0	
Q2399-04	TP-13	35	1.13	10.84	11.97	10.27	84.3	
Q2399-05	EP-7	36	1.19	10.47	11.66	10.37	87.7	
Q2399-06	EP-7-EPH	37	1.19	10.47	11.66	10.33	87.3	
Q2399-07	EP-7-VOC	38	1.16	10.57	11.73	10.38	87.2	
Q2399-08	EP-13	39	1.19	10.47	11.66	10.37	87.7	
Q2400-01	B-156-SB01	40	1.17	10.58	11.75	10.11	84.5	
Q2400-02	B-134-SB01	41	1.19	10.00	11.19	9.49	83.0	
Q2403-03	LAW-25-0093	42	1.18	10.24	11.42	10.54	91.4	
Q2403-04	LAW-25-0093-E2	43	1.18	10.14	11.32	10.42	91.1	
Q2403-05	Concrete-062325	44	1.15	10.84	11.99	11.71	97.4	
Q2403-07	ARS 20-006	45	1.19	10.44	11.63	11.13	95.2	
Q2403-08	ARS020-0006-E2	46	1.18	10.64	11.82	11.09	93.1	
Q2405-01	MH-M/H	47	1.19	10.11	11.3	10.37	90.8	
Q2405-02	MH-M/N-EPH	48	1.19	10.01	11.2	10.15	89.5	
Q2405-03	MH-M/N-VOC	49	1.11	10.71	11.82	10.9	91.4	
Q2406-01	PUMPING-PLANT	50	1.00	1.00	2.00	2.00	100.0	oil sample
Q2409-02	COP-SOIL-PILE	51	1.18	10.58	11.76	11.38	96.4	
Q2410-01	TRE-25-0021	52	1.00	1.00	2.00	2.00	100.0	debris
Q2411-01	TRE-2002	53	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2412-01	TR-05-062425	54	1.18	10.08	11.26	10.94	96.8	
Q2412-02	TR-05-062425-E2	55	1.16	10.28	11.44	11.23	98.0	

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

WORKLIST(Hardcopy Internal Chain)

136243

WorkList Name : %1-062425

WorkList ID : 190342

Department : Wet-Chemistry

Date : 06-24-2025 08:17:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2392-01	S-1	Solid	Percent Solids	Cool 4 deg C	EARTH03	A41	06/23/2025	Chemtech -SO
Q2392-02	S-1A	Solid	Percent Solids	Cool 4 deg C	EARTH03	A41	06/23/2025	Chemtech -SO
Q2393-01	PARK AVE -1	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-02	PARK AVE -1	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-03	PARK AVE -2	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-04	PARK AVE -2	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-05	PARK AVE -3	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-06	PARK AVE -3	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-07	PARK AVE -4	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-08	PARK AVE -4	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-09	PARK AVE -5	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-10	PARK AVE -5	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-11	PARK AVE -6	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-12	PARK AVE -6	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2394-01	MH-K/L	Solid	Percent Solids	Cool 4 deg C	PSEG03	A21	06/23/2025	Chemtech -SO
Q2394-02	MH-K/L EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A21	06/23/2025	Chemtech -SO
Q2394-03	MH-K/L VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A21	06/23/2025	Chemtech -SO
Q2394-04	MH-K/L	Solid	Percent Solids	Cool 4 deg C	PSEG03	A21	06/23/2025	Chemtech -SO
Q2396-01	245F53-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-02	245F53-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-03	LAW-25-1A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO

Date/Time 06/24/25 15:10

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 06/24/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

136243

WorkList Name : %1-062425

WorkList ID : 190342

Department : Wet-Chemistry

Date : 06-24-2025 08:17:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2396-04	LAW-25-1B	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-05	LAW-25-2A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-06	LAW-25-2B	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-07	LAW-25-3A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-08	LAW-25-3B	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2398-01	M00-25-0169	Solid	Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2398-03	M00-25-0179	Solid	Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2398-04	M00-25-0179-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2398-06	ARS20-0036	Solid	Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2398-07	ARS20-0036-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2399-01	TP-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-02	TP-13-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-03	TP-13-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-04	TP-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-05	EP-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-06	EP-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-07	EP-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-08	EP-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2400-01	B-156-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	A42	06/23/2025	Chemtech -SO
Q2400-02	B-134-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	A42	06/23/2025	Chemtech -SO
Q2403-03	LAW-25-0093	Solid	Percent Solids	Cool 4 deg C	PSEG03	A32	06/23/2025	Chemtech -SO

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

136243

WorkList Name : %1-062425

WorkList ID : 190342

Department : Wet-Chemistry

Date : 06-24-2025 08:17:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2403-04	LAW-25-0093-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A32	06/23/2025	Chemtech -SO
Q2403-05	Concrete-062325	Solid	Percent Solids	Cool 4 deg C	PSEG03	A32	06/23/2025	Chemtech -SO
Q2403-07	ARS 20-006	Solid	Percent Solids	Cool 4 deg C	PSEG03	A32	06/23/2025	Chemtech -SO
Q2403-08	ARS020-0006-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A32	06/23/2025	Chemtech -SO
Q2405-01	MH-M/H	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/24/2025	Chemtech -SO
Q2405-02	MH-M/N-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/24/2025	Chemtech -SO
Q2405-03	MH-M/N-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/24/2025	Chemtech -SO
Q2406-01	PUMPING-PLANT	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/23/2025	Chemtech -SO
Q2409-02	COP-SOIL-PILE	Solid	Percent Solids	Cool 4 deg C	COPP02	D51	06/24/2025	Chemtech -SO
Q2410-01	TRE-25-0021	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/24/2025	Chemtech -SO
Q2411-01	TRE-2002	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/24/2025	Chemtech -SO
Q2412-01	TR-05-062425	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	06/24/2025	Chemtech -SO
Q2412-02	TR-05-062425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	06/24/2025	Chemtech -SO

Date/Time 06/24/25 15:10

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 06/24/25 17:20

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Union Parking & Construction

ADDRESS: 190 PARK AVE

CITY HANOVER Twp STATE: NJ ZIP:

ATTENTION: GERARD BUSACCO

PHONE: (201) 315-5055 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: 190 PARK AVE HANOVER Twp NJ-PD 36316-001

PROJECT NO.: LOCATION:

PROJECT MANAGER:

e-mail:

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:

ADDRESS:

CITY STATE: ZIP:

ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*

HARDCOPY (DATA PACKAGE): _____ DAYS*

EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

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

VOCs
Cy, Met, Mercury
PCB, Pest, PH
SUOCs

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		E/F	E	E	E						Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER	
1.	PARK AVE-1	5.	X		6-23	0820	4		X	X	X							
2.	PARK AVE-1			X		0822	4	X									PPM-0.0	
3.	PARK AVE-2		X			0828	4		X	X	X							
4.	PARK AVE-2			X		0830	4	X									PPM-0.0	
5.	PARK AVE-3		X			0832	4		X	X	X							
6.	PARK AVE-3			X		0834	4	X									PPM-0.0	
7.	PARK AVE-4		X			0837	4		X	X	X							
8.	PARK AVE-4			X		0839	4	X									PPM-0.0	
9.	PARK AVE-5		X			0843	4		X	X	X							
10.	PARK AVE-5			X		0845	4	X									PPM-0.0	

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

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>1015</u> <u>6-23-25</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.5</u> °C Comments: _____
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME: _____	RECEIVED BY: 2. _____	_____
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>1100</u> <u>6-23-25</u>	RECEIVED BY: 3. _____	_____

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Union Paving & Construction

ADDRESS: 190 PARK AVE

CITY HANOVER Twp STATE: NJ ZIP:

ATTENTION: GERARD BUSACCO

PHONE: (201) 315-5055 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: 190 PARK AVE HANOVER Twp NJ-PO 3306-001

PROJECT NO.: LOCATION:

PROJECT MANAGER:

e-mail:

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:

ADDRESS:

CITY

STATE:

ZIP:

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*

HARDCOPY (DATA PACKAGE): _____ DAYS*

EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

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

VOCs
GP. Met. Mercury
PCBs, Pestic. PAH, SVOCs

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		E/F	E	E							
1.	PARK AVE-6	S.	X		6-23	0852	4		X	X							
2.	PARK AVE-6	S.		X	6-23	0854	4	X									PPM-0.0
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>[Signature]</u>	DATE/TIME: <u>10:15</u> <u>6-23-25</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.1</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 2. <u>[Signature]</u>	Comments: _____
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>11:00</u> <u>6-23-25</u>	RECEIVED BY: 3. <u>[Signature]</u>	Comments: _____

Page 2 of 2 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	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2393	UNIO02	Order Date : 6/23/2025 11:43:58 AM	Project Mgr :
Client Name : Union Paving & Constructi		Project Name : 190 Park Ave Hanover Twp	Report Type : Level 3
Client Contact : Gerard Busacco		Receive DateTime : 6/23/2025 2:00:00 PM 	EDD Type : Excel NJ
Invoice Name : Union Paving & Constructi		Purchase Order : 11-10 PM	Hard Copy Date :
Invoice Contact : Gerard Busacco			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2393-02	PARK AVE -1	Solid	06/23/2025	08:22	VOC-TCLVOA-10		8260 		10 Bus. Days
Q2393-04	PARK AVE -2	Solid	06/23/2025	08:30	VOC-TCLVOA-10		8260 		10 Bus. Days
Q2393-06	PARK AVE -3	Solid	06/23/2025	08:34	VOC-TCLVOA-10		8260 		10 Bus. Days
Q2393-08	PARK AVE -4	Solid	06/23/2025	08:39	VOC-TCLVOA-10		8260 		10 Bus. Days
Q2393-10	PARK AVE -5	Solid	06/23/2025	08:45	VOC-TCLVOA-10		8260 		10 Bus. Days
Q2393-12	PARK AVE -6	Solid	06/23/2025	08:54	VOC-TCLVOA-10		8260 		10 Bus. Days

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2393	UNIO02	Order Date : 6/23/2025 11:43:58 AM	Project Mgr :
Client Name : Union Paving & Constructi		Project Name : 190 Park Ave Hanover Twp	Report Type : Level 3
Client Contact : Gerard Busacco		Receive DateTime : 6/23/2025 2:00:00 PM 11:00 AM	EDD Type : Excel NJ
Invoice Name : Union Paving & Constructi		Purchase Order :	Hard Copy Date :
Invoice Contact : Gerard Busacco			Date Signoff :

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

Date / Time : 6/23/25 1330

Received By : 

Date / Time : 06/23/25

Storage Area : VOA Refridgerator Room

13.30 Reg # 6
F22