

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

LAB CHRONICLE

OrderID: Q3323	OrderDate: 10/9/2025 2:32:00 PM
Client: Langan Engineering and Environmental Services, Inc	Project: Con Edison Richmond Terrace
Contact: Gregory DelMastro	Location: D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3323-01	SED-01-0-2	SOIL	VOC-TCLVOA-10	8260D	10/09/25		10/10/25	10/09/25
Q3323-02	SED-02-0-2	SOIL	VOC-TCLVOA-10	8260D	10/09/25		10/10/25	10/09/25
Q3323-03	SED-03-0-2	SOIL	VOC-TCLVOA-10	8260D	10/09/25		10/10/25	10/09/25
Q3323-04	SED-04-0-2	SOIL	VOC-TCLVOA-10	8260D	10/09/25		10/10/25	10/09/25
Q3323-05	SED-05-0-2	SOIL	VOC-TCLVOA-10	8260D	10/09/25		10/10/25	10/09/25
Q3323-06	SED-06-0-2	SOIL	VOC-TCLVOA-10	8260D	10/09/25		10/10/25	10/09/25
Q3323-07	SED-07-0-2	SOIL	VOC-TCLVOA-10	8260D	10/09/25		10/10/25	10/09/25

Hit Summary Sheet
SW-846

SDG No.: Q3323
Client: Langan Engineering and Environmental Services, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SED-01-0-2							
Q3323-01	SED-01-0-2	SOIL	Acetone	17.2	J	5.40	28.6	ug/Kg
Q3323-01	SED-01-0-2	SOIL	Carbon Disulfide	4.60	J	1.20	5.70	ug/Kg
Q3323-01	SED-01-0-2	SOIL	Methylene Chloride	5.40	J	4.00	11.4	ug/Kg
			Total Voc :	27.2				
Q3323-01	SED-01-0-2	SOIL	Naphthalene, decahydro-2-metl *	16.0	J	0	0	ug/Kg
Q3323-01	SED-01-0-2	SOIL	Cyclohexane, 2-butyl-1,1,3-trin *	21.0	J	0	0	ug/Kg
			Total Tics :	37.0				
			Total Concentration:	64.2				
Client ID:	SED-02-0-2							
Q3323-02	SED-02-0-2	SOIL	Acetone	34.3	J	12.0	63.0	ug/Kg
Q3323-02	SED-02-0-2	SOIL	Carbon Disulfide	4.20	J	2.70	12.6	ug/Kg
Q3323-02	SED-02-0-2	SOIL	Methylene Chloride	9.70	J	8.90	25.2	ug/Kg
			Total Voc :	48.2				
Q3323-02	SED-02-0-2	SOIL	Naphthalene, decahydro-2-metl *	13.4	J	0	0	ug/Kg
Q3323-02	SED-02-0-2	SOIL	Cyclohexane, 2-butyl-1,1,3-trin *	14.0	J	0	0	ug/Kg
			Total Tics :	27.4				
			Total Concentration:	75.6				
Client ID:	SED-03-0-2							
Q3323-03	SED-03-0-2	SOIL	Acetone	16.4	J	3.80	20.0	ug/Kg
Q3323-03	SED-03-0-2	SOIL	Carbon Disulfide	3.00	J	0.85	4.00	ug/Kg
Q3323-03	SED-03-0-2	SOIL	Methylene Chloride	3.80	J	2.80	8.00	ug/Kg
			Total Voc :	23.2				
			Total Concentration:	23.2				
Client ID:	SED-04-0-2							
Q3323-04	SED-04-0-2	SOIL	Acetone	14.2	J	5.80	30.5	ug/Kg
Q3323-04	SED-04-0-2	SOIL	Carbon Disulfide	3.70	J	1.30	6.10	ug/Kg
			Total Voc :	17.9				
			Total Concentration:	17.9				
Client ID:	SED-05-0-2							
Q3323-05	SED-05-0-2	SOIL	Acetone	13.7	J	4.80	25.4	ug/Kg
Q3323-05	SED-05-0-2	SOIL	Carbon Disulfide	4.10	J	1.10	5.10	ug/Kg
Q3323-05	SED-05-0-2	SOIL	Methylene Chloride	4.40	J	3.60	10.2	ug/Kg
			Total Voc :	22.2				
Q3323-05	SED-05-0-2	SOIL	Naphthalene, decahydro-2-metl *	11.9	J	0	0	ug/Kg
Q3323-05	SED-05-0-2	SOIL	Cyclohexane, 1,3-dimethyl-2-n *	5.50	J	0	0	ug/Kg
			Total Tics :	17.4				
			Total Concentration:	39.6				
Client ID:	SED-06-0-2							

Hit Summary Sheet
SW-846

SDG No.: Q3323

Client: Langan Engineering and Environmental Services, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3323-06	SED-06-0-2	SOIL	Acetone	8.50	J	3.80	20.0	ug/Kg
Q3323-06	SED-06-0-2	SOIL	Carbon Disulfide	1.40	J	0.85	4.00	ug/Kg
Q3323-06	SED-06-0-2	SOIL	Methylene Chloride	5.10	J	2.80	8.00	ug/Kg
			Total Voc :	15.0				
			Total Concentration:	15.0				
Client ID:	SED-07-0-2							
Q3323-07	SED-07-0-2	SOIL	Methylene Chloride	6.00	J	3.50	9.90	ug/Kg
			Total Voc :	6.00				
			Total Concentration:	6.00				



QC SUMMARY

Surrogate Summary

SDG No.: **Q3323**

Client: **Langan Engineering and Environmental Services, Inc**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3323-01	SED-01-0-2	1,2-Dichloroethane-d4	50	62.8	126		63	155
		Dibromofluoromethane	50	54.8	110		70	134
		Toluene-d8	50	52.5	105		74	123
		4-Bromofluorobenzene	50	52.2	104		17	146
Q3323-02	SED-02-0-2	1,2-Dichloroethane-d4	50	63.0	126		63	155
		Dibromofluoromethane	50	53.8	108		70	134
		Toluene-d8	50	54.1	108		74	123
		4-Bromofluorobenzene	50	59.8	120		17	146
Q3323-03	SED-03-0-2	1,2-Dichloroethane-d4	50	58.9	118		63	155
		Dibromofluoromethane	50	53.0	106		70	134
		Toluene-d8	50	51.6	103		74	123
		4-Bromofluorobenzene	50	51.8	103		17	146
Q3323-04	SED-04-0-2	1,2-Dichloroethane-d4	50	56.2	112		63	155
		Dibromofluoromethane	50	53.6	107		70	134
		Toluene-d8	50	50.9	102		74	123
		4-Bromofluorobenzene	50	44.0	88		17	146
Q3323-05	SED-05-0-2	1,2-Dichloroethane-d4	50	53.1	106		63	155
		Dibromofluoromethane	50	51.1	102		70	134
		Toluene-d8	50	52.3	105		74	123
		4-Bromofluorobenzene	50	51.1	102		17	146
Q3323-06	SED-06-0-2	1,2-Dichloroethane-d4	50	58.2	116		63	155
		Dibromofluoromethane	50	52.7	105		70	134
		Toluene-d8	50	52.4	105		74	123
		4-Bromofluorobenzene	50	55.2	110		17	146
Q3323-07	SED-07-0-2	1,2-Dichloroethane-d4	50	57.2	114		63	155
		Dibromofluoromethane	50	53.4	107		70	134
		Toluene-d8	50	51.8	104		74	123
		4-Bromofluorobenzene	50	47.5	95		17	146
VY1010SBL01	VY1010SBL01	1,2-Dichloroethane-d4	50	59.2	118		63	155
		Dibromofluoromethane	50	53.5	107		70	134
		Toluene-d8	50	52.4	105		74	123
		4-Bromofluorobenzene	50	50.0	100		17	146
VY1010SBS01	VY1010SBS01	1,2-Dichloroethane-d4	50	45.7	91		63	155
		Dibromofluoromethane	50	48.6	97		70	134
		Toluene-d8	50	49.4	99		74	123
		4-Bromofluorobenzene	50	47.3	95		17	146
VY1010SBSD01	VY1010SBSD01	1,2-Dichloroethane-d4	50	45.8	92		63	155
		Dibromofluoromethane	50	48.6	97		70	134
		Toluene-d8	50	49.2	98		74	123
		4-Bromofluorobenzene	50	46.4	93		17	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3323</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Langan Engineering and Environment</u>	Datafile :	<u>VY023426.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1010SBS01	Dichlorodifluoromethane	20	22.2	ug/Kg	111			64	136	
	Chloromethane	20	20.4	ug/Kg	102			52	151	
	Vinyl chloride	20	21.1	ug/Kg	106			56	148	
	Bromomethane	20	21.3	ug/Kg	106			58	141	
	Chloroethane	20	21.6	ug/Kg	108			69	130	
	Trichlorofluoromethane	20	20.8	ug/Kg	104			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/Kg	109			81	123	
	1,1-Dichloroethene	20	20.6	ug/Kg	103			79	121	
	Acetone	100	110	ug/Kg	110			40	171	
	Carbon disulfide	20	21.3	ug/Kg	106			59	130	
	Methyl tert-butyl Ether	20	18.1	ug/Kg	91			77	129	
	Methyl Acetate	20	14.3	ug/Kg	72			69	149	
	Methylene Chloride	20	19.7	ug/Kg	99			72	131	
	trans-1,2-Dichloroethene	20	21.1	ug/Kg	106			80	123	
	1,1-Dichloroethane	20	21.1	ug/Kg	106			82	123	
	Cyclohexane	20	20.1	ug/Kg	101			76	122	
	2-Butanone	100	96.9	ug/Kg	97			69	131	
	Carbon Tetrachloride	20	21.4	ug/Kg	107			76	129	
	cis-1,2-Dichloroethene	20	20.9	ug/Kg	104			82	123	
	Bromochloromethane	20	20.3	ug/Kg	102			80	127	
	Chloroform	20	21.3	ug/Kg	106			82	125	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			80	126	
	Methylcyclohexane	20	20.7	ug/Kg	104			77	123	
	Benzene	20	21.4	ug/Kg	107			84	121	
	1,2-Dichloroethane	20	19.6	ug/Kg	98			81	126	
	Trichloroethene	20	20.9	ug/Kg	104			83	122	
	1,2-Dichloropropane	20	20.8	ug/Kg	104			83	122	
	Bromodichloromethane	20	20.7	ug/Kg	104			82	123	
	4-Methyl-2-Pentanone	100	82.1	ug/Kg	82			70	135	
	Toluene	20	21.6	ug/Kg	108			83	122	
	t-1,3-Dichloropropene	20	19.3	ug/Kg	97			78	124	
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103			81	122	
	1,1,2-Trichloroethane	20	19.2	ug/Kg	96			82	125	
	2-Hexanone	100	90.7	ug/Kg	91			66	138	
	Dibromochloromethane	20	19.8	ug/Kg	99			79	125	
	1,2-Dibromoethane	20	19.0	ug/Kg	95			80	125	
	Tetrachloroethene	20	20.7	ug/Kg	104			83	125	
	Chlorobenzene	20	20.6	ug/Kg	103			84	122	
	Ethyl Benzene	20	20.8	ug/Kg	104			82	124	
	m/p-Xylenes	40	43.0	ug/Kg	108			83	124	
	o-Xylene	20	20.6	ug/Kg	103			83	123	
	Styrene	20	20.5	ug/Kg	103			82	124	
	Bromoform	20	18.1	ug/Kg	91			75	127	
	Isopropylbenzene	20	21.2	ug/Kg	106			82	124	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/Kg	91			77	127	
	1,3-Dichlorobenzene	20	20.8	ug/Kg	104			83	122	
	1,4-Dichlorobenzene	20	20.6	ug/Kg	103			84	121	
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3323</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Langan Engineering and Environment</u>	Datafile :	<u>VY023426.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1010SBS01	1,2-Dibromo-3-Chloropropane	20	15.7	ug/Kg	79			66	134	
	1,2,4-Trichlorobenzene	20	18.2	ug/Kg	91			78	127	
	1,2,3-Trichlorobenzene	20	17.4	ug/Kg	87			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3323</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Langan Engineering and Environment</u>	Datafile :	<u>VY023427.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1010SBSD01	Dichlorodifluoromethane	20	21.6	ug/Kg	108	3		64	136	20
	Chloromethane	20	20.5	ug/Kg	103	1		52	151	20
	Vinyl chloride	20	20.6	ug/Kg	103	3		56	148	20
	Bromomethane	20	20.5	ug/Kg	103	3		58	141	20
	Chloroethane	20	21.0	ug/Kg	105	3		69	130	20
	Trichlorofluoromethane	20	20.2	ug/Kg	101	3		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.7	ug/Kg	104	5		81	123	20
	1,1-Dichloroethene	20	20.6	ug/Kg	103	0		79	121	20
	Acetone	100	110	ug/Kg	110	0		40	171	20
	Carbon disulfide	20	20.7	ug/Kg	104	2		59	130	20
	Methyl tert-butyl Ether	20	18.1	ug/Kg	91	0		77	129	20
	Methyl Acetate	20	15.6	ug/Kg	78	8		69	149	20
	Methylene Chloride	20	18.9	ug/Kg	95	4		72	131	20
	trans-1,2-Dichloroethene	20	20.9	ug/Kg	104	2		80	123	20
	1,1-Dichloroethane	20	20.7	ug/Kg	104	2		82	123	20
	Cyclohexane	20	19.8	ug/Kg	99	2		76	122	20
	2-Butanone	100	99.1	ug/Kg	99	2		69	131	20
	Carbon Tetrachloride	20	20.8	ug/Kg	104	3		76	129	20
	cis-1,2-Dichloroethene	20	20.7	ug/Kg	104	0		82	123	20
	Bromochloromethane	20	20.6	ug/Kg	103	1		80	127	20
	Chloroform	20	21.0	ug/Kg	105	1		82	125	20
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104	2		80	126	20
	Methylcyclohexane	20	20.3	ug/Kg	102	2		77	123	20
	Benzene	20	21.0	ug/Kg	105	2		84	121	20
	1,2-Dichloroethane	20	19.5	ug/Kg	98	0		81	126	20
	Trichloroethene	20	20.9	ug/Kg	104	0		83	122	20
	1,2-Dichloropropane	20	20.4	ug/Kg	102	2		83	122	20
	Bromodichloromethane	20	20.3	ug/Kg	102	2		82	123	20
	4-Methyl-2-Pentanone	100	85.4	ug/Kg	85	4		70	135	20
	Toluene	20	21.1	ug/Kg	106	2		83	122	20
	t-1,3-Dichloropropene	20	19.2	ug/Kg	96	1		78	124	20
	cis-1,3-Dichloropropene	20	19.7	ug/Kg	99	4		81	122	20
	1,1,2-Trichloroethane	20	19.4	ug/Kg	97	1		82	125	20
	2-Hexanone	100	93.2	ug/Kg	93	2		66	138	20
	Dibromochloromethane	20	19.4	ug/Kg	97	2		79	125	20
	1,2-Dibromoethane	20	19.0	ug/Kg	95	0		80	125	20
	Tetrachloroethene	20	21.4	ug/Kg	107	3		83	125	20
	Chlorobenzene	20	20.6	ug/Kg	103	0		84	122	20
	Ethyl Benzene	20	20.7	ug/Kg	104	0		82	124	20
	m/p-Xylenes	40	41.9	ug/Kg	105	3		83	124	20
	o-Xylene	20	20.5	ug/Kg	103	0		83	123	20
	Styrene	20	20.7	ug/Kg	104	1		82	124	20
	Bromoform	20	18.5	ug/Kg	93	2		75	127	20
	Isopropylbenzene	20	20.9	ug/Kg	104	2		82	124	20
	1,1,2,2-Tetrachloroethane	20	18.1	ug/Kg	91	0		77	127	20
	1,3-Dichlorobenzene	20	20.8	ug/Kg	104	0		83	122	20
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	0		84	121	20
	1,2-Dichlorobenzene	20	19.9	ug/Kg	100	2		83	124	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3323</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Langan Engineering and Environment</u>	Datafile :	<u>VY023427.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1010SBSD01	1,2-Dibromo-3-Chloropropane	20	17.0	ug/Kg	85	7		66	134	20
	1,2,4-Trichlorobenzene	20	18.5	ug/Kg	93	2		78	127	20
	1,2,3-Trichlorobenzene	20	17.9	ug/Kg	90	3		70	137	20

VOLATILE METHOD BLANK SUMMARY

Client ID

VY1010SBL01

Lab Name: Alliance

Contract: LANG01

Lab Code: ACE

SDG NO.: Q3323

Lab File ID: VY023425.D

Lab Sample ID: VY1010SBL01

Date Analyzed: 10/10/2025

Time Analyzed: 09:25

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
VY1010SBS01	VY1010SBS01	VY023426.D	10/10/2025
VY1010SBSD01	VY1010SBSD01	VY023427.D	10/10/2025
SED-01-0-2	Q3323-01	VY023434.D	10/10/2025
SED-02-0-2	Q3323-02	VY023435.D	10/10/2025
SED-03-0-2	Q3323-03	VY023436.D	10/10/2025
SED-04-0-2	Q3323-04	VY023437.D	10/10/2025
SED-05-0-2	Q3323-05	VY023438.D	10/10/2025
SED-06-0-2	Q3323-06	VY023439.D	10/10/2025
SED-07-0-2	Q3323-07	VY023440.D	10/10/2025

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: Alliance

Contract: LANG01

Lab Code: ACE

SDG NO.: Q3323

Lab File ID: VY023383.D

BFB Injection Date: 10/07/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 08:43

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	16.9
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (0.9) 1
174	50.0 - 100.0% of mass 95	99.1
175	5.0 - 9.0% of mass 174	7.3 (7.4) 1
176	95.0 - 101.0% of mass 174	95.4 (96.2) 1
177	5.0 - 9.0% of mass 176	6.3 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY023384.D	10/07/2025	09:17
VSTDIC010	VSTDIC010	VY023385.D	10/07/2025	10:02
VSTDIC020	VSTDIC020	VY023386.D	10/07/2025	11:24
VSTDIC050	VSTDIC050	VY023387.D	10/07/2025	11:47
VSTDIC100	VSTDIC100	VY023388.D	10/07/2025	12:09
VSTDIC150	VSTDIC150	VY023389.D	10/07/2025	12:32



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: LANG01

Lab Code: ACE

SDG NO.: Q3323

Lab File ID: VY023423.D

BFB Injection Date: 10/10/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 08:26

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.6
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.2 (1.2) 1
174	50.0 - 100.0% of mass 95	97.9
175	5.0 - 9.0% of mass 174	7 (7.2) 1
176	95.0 - 101.0% of mass 174	93.7 (95.7) 1
177	5.0 - 9.0% of mass 176	6.3 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY023424.D	10/10/2025	08:56
VY1010SBL01	VY1010SBL01	VY023425.D	10/10/2025	09:25
VY1010SBS01	VY1010SBS01	VY023426.D	10/10/2025	09:54
VY1010SBSD01	VY1010SBSD01	VY023427.D	10/10/2025	10:17
SED-01-0-2	Q3323-01	VY023434.D	10/10/2025	13:16
SED-02-0-2	Q3323-02	VY023435.D	10/10/2025	13:40
SED-03-0-2	Q3323-03	VY023436.D	10/10/2025	14:03
SED-04-0-2	Q3323-04	VY023437.D	10/10/2025	14:27
SED-05-0-2	Q3323-05	VY023438.D	10/10/2025	14:50
SED-06-0-2	Q3323-06	VY023439.D	10/10/2025	15:13
SED-07-0-2	Q3323-07	VY023440.D	10/10/2025	15:37

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: LANG01
Lab Code: ACE SDG NO.: Q3323
Lab File ID: VY023424.D Date Analyzed: 10/10/2025
Instrument ID: MSVOA_Y Time Analyzed: 08:56
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	555461	7.71	789535	8.62	696631	11.42
UPPER LIMIT	1110920	8.213	1579070	9.116	1393260	11.92
LOWER LIMIT	277731	7.213	394768	8.116	348316	10.92
EPA SAMPLE NO.						
SED-01-0-2	523687	7.71	1011660	8.62	1001091	11.42
SED-02-0-2	566681	7.71	1088713	8.62	1150595	11.41
SED-03-0-2	573947	7.71	1114100	8.62	1082536	11.42
SED-04-0-2	547861	7.71	1010886	8.62	894472	11.42
SED-05-0-2	601910	7.71	1138564	8.62	1096445	11.41
SED-06-0-2	613438	7.71	1182950	8.62	1184267	11.42
SED-07-0-2	590270	7.71	1116913	8.62	1047295	11.42
VY1010SBL01	583718	7.71	1135832	8.62	1117193	11.42
VY1010SBS01	543174	7.71	799579	8.62	702444	11.42
VY1010SBSD01	541854	7.71	796917	8.62	692218	11.41

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: LANG01
 Lab Code: ACE SDG NO.: Q3323
 Lab File ID: VY023424.D Date Analyzed: 10/10/2025
 Instrument ID: MSVOA_Y Time Analyzed: 08:56
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	366006	13.346				
UPPER LIMIT	732012	13.846				
LOWER LIMIT	183003	12.846				
EPA SAMPLE NO.						
SED-01-0-2	371877	13.35				
SED-02-0-2	533404	13.35				
SED-03-0-2	408123	13.35				
SED-04-0-2	300018	13.35				
SED-05-0-2	417654	13.35				
SED-06-0-2	480884	13.35				
SED-07-0-2	372887	13.35				
VY1010SBL01	460059	13.35				
VY1010SBS01	363757	13.35				
VY1010SBSD01	356596	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-01-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	66.8
Sample Wt/Vol:	6.55 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023434.D	1	10/10/25 13:16	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	5.70	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.70	ug/Kg
75-01-4	Vinyl Chloride	0.90	U	0.90	5.70	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.70	ug/Kg
75-00-3	Chloroethane	1.40	U	1.40	5.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.40	U	1.40	5.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.70	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.70	ug/Kg
67-64-1	Acetone	17.2	J	5.40	28.6	ug/Kg
75-15-0	Carbon Disulfide	4.60	J	1.20	5.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.83	U	0.83	5.70	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.70	ug/Kg
75-09-2	Methylene Chloride	5.40	J	4.00	11.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.98	U	0.98	5.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.91	U	0.91	5.70	ug/Kg
110-82-7	Cyclohexane	0.90	U	0.90	5.70	ug/Kg
78-93-3	2-Butanone	7.50	U	7.50	28.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	5.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.86	U	0.86	5.70	ug/Kg
74-97-5	Bromochloromethane	1.30	U	1.30	5.70	ug/Kg
67-66-3	Chloroform	0.96	U	0.96	5.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	5.70	ug/Kg
108-87-2	Methylcyclohexane	1.00	U	1.00	5.70	ug/Kg
71-43-2	Benzene	0.90	U	0.90	5.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.90	U	0.90	5.70	ug/Kg
79-01-6	Trichloroethene	0.93	U	0.93	5.70	ug/Kg
78-87-5	1,2-Dichloropropane	1.00	U	1.00	5.70	ug/Kg
75-27-4	Bromodichloromethane	0.89	U	0.89	5.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.10	U	4.10	28.6	ug/Kg
108-88-3	Toluene	0.89	U	0.89	5.70	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc			Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace			Date Received:	10/09/25
Client Sample ID:	SED-01-0-2			SDG No.:	Q3323
Lab Sample ID:	Q3323-01			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	66.8
Sample Wt/Vol:	6.55	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023434.D	1	10/10/25 13:16	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.74	U	0.74	5.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.71	U	0.71	5.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	5.70	ug/Kg
591-78-6	2-Hexanone	4.20	U	4.20	28.6	ug/Kg
124-48-1	Dibromochloromethane	0.99	U	0.99	5.70	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	5.70	ug/Kg
127-18-4	Tetrachloroethene	1.20	U	1.20	5.70	ug/Kg
108-90-7	Chlorobenzene	1.00	U	1.00	5.70	ug/Kg
100-41-4	Ethyl Benzene	0.77	U	0.77	5.70	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	11.4	ug/Kg
95-47-6	o-Xylene	0.94	U	0.94	5.70	ug/Kg
100-42-5	Styrene	0.81	U	0.81	5.70	ug/Kg
75-25-2	Bromoform	0.98	U	0.98	5.70	ug/Kg
98-82-8	Isopropylbenzene	0.89	U	0.89	5.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	5.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.00	U	2.00	5.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.80	U	1.80	5.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.70	U	1.70	5.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.10	U	2.10	5.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.40	U	3.40	5.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.60	U	3.60	5.70	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	62.8	63 - 155	126%	SPK: 50
1868-53-7	Dibromofluoromethane	54.8	70 - 134	110%	SPK: 50
2037-26-5	Toluene-d8	52.5	74 - 123	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2	17 - 146	104%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	524000	7.713
540-36-3	1,4-Difluorobenzene	1010000	8.616
3114-55-4	Chlorobenzene-d5	1000000	11.42
3855-82-1	1,4-Dichlorobenzene-d4	372000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-01-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	66.8
Sample Wt/Vol:	6.55 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023434.D	1	10/10/25 13:16	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
002958-76-1	Naphthalene, decahydro-2-methyl-	16.0	J		14.2	ug/Kg
054676-39-0	Cyclohexane, 2-butyl-1,1,3-trimeth	21.0	J		15.0	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\VY101025\
 Data File : VY023434.D
 Acq On : 10 Oct 2025 13:16
 Operator : SY/MD
 Sample : Q3323-01
 Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-01-0-2

Quant Time: Oct 11 01:57:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

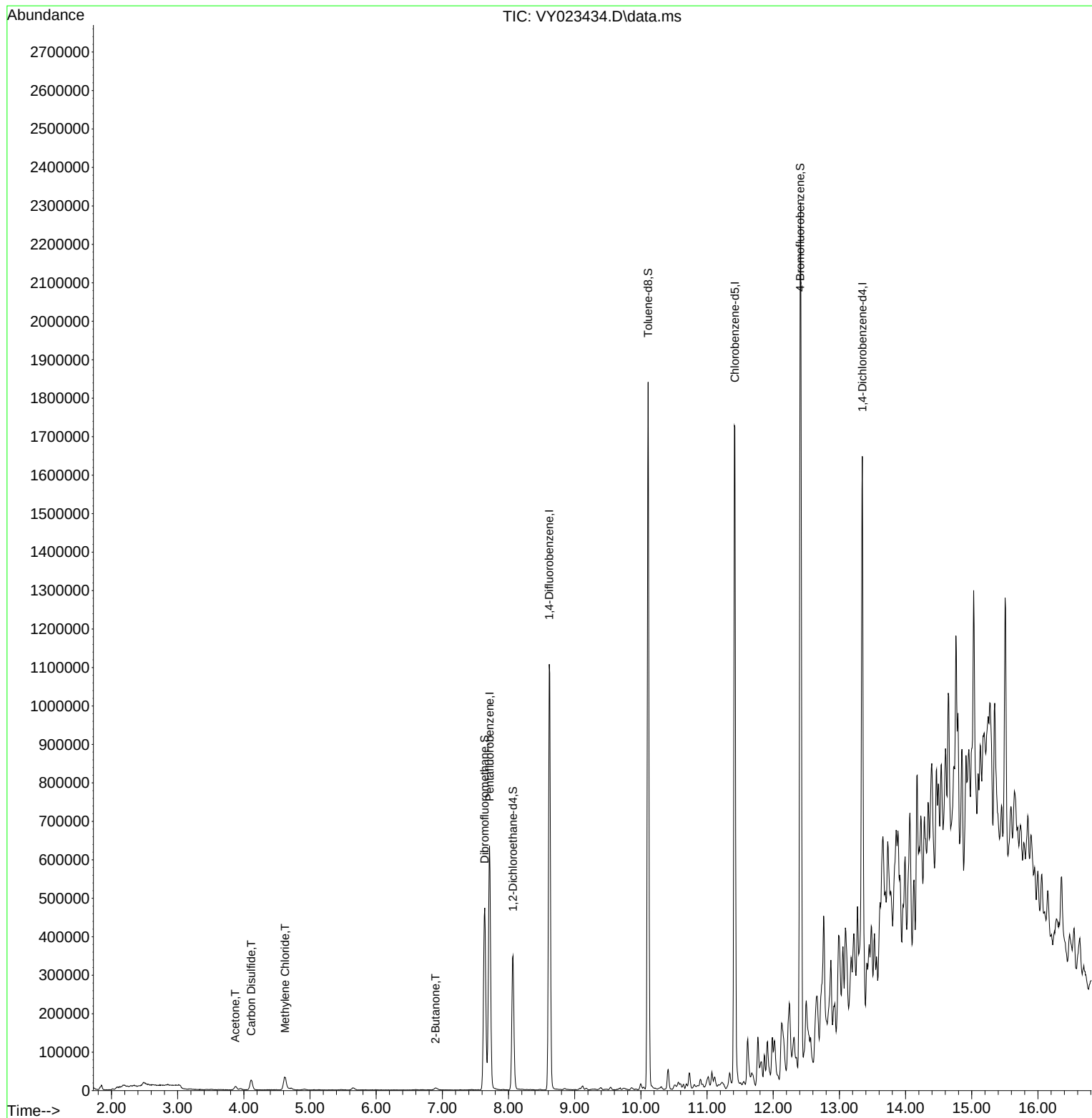
Internal Standards						
1) Pentafluorobenzene	7.713	168	523687	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1011660	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1001091	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	371877	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	274862	62.766	ug/l	0.00
Spiked Amount	50.000	Range 50 - 163	Recovery	=	125.540%	
35) Dibromofluoromethane	7.640	113	340736	54.814	ug/l	0.00
Spiked Amount	50.000	Range 54 - 147	Recovery	=	109.620%	
50) Toluene-d8	10.109	98	1215929	52.525	ug/l	0.00
Spiked Amount	50.000	Range 58 - 134	Recovery	=	105.040%	
62) 4-Bromofluorobenzene	12.408	95	398755	52.174	ug/l	0.00
Spiked Amount	50.000	Range 30 - 143	Recovery	=	104.340%	
Target Compounds						
					Qvalue	
16) Acetone	3.872	43	15709	15.068	ug/l	97
17) Carbon Disulfide	4.110	76	54247	4.057	ug/l	97
20) Methylene Chloride	4.622	84	26641	4.726	ug/l	94
25) 2-Butanone	6.896	43	4579	3.598	ug/l #	83

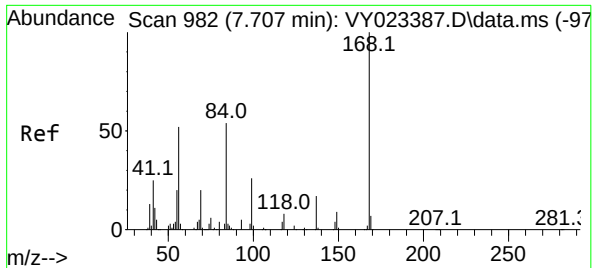
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023434.D
Acq On : 10 Oct 2025 13:16
Operator : SY/MD
Sample : Q3323-01
Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-01-0-2

Quant Time: Oct 11 01:57:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

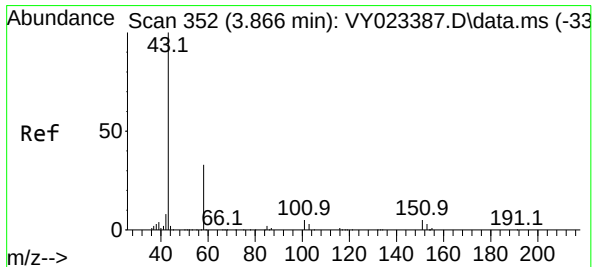
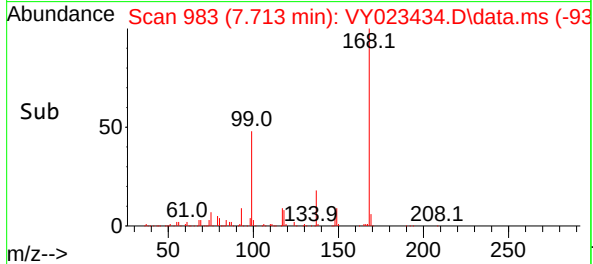
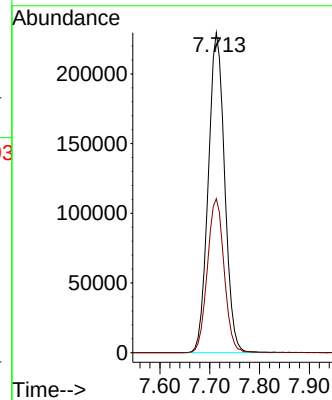
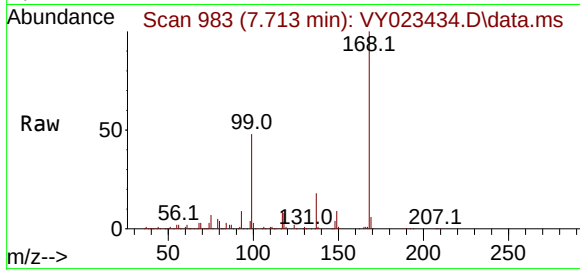




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023434.D
Acq: 10 Oct 2025 13:16

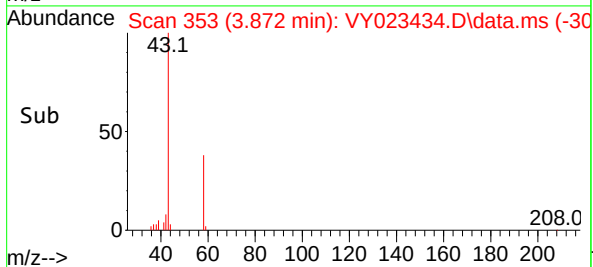
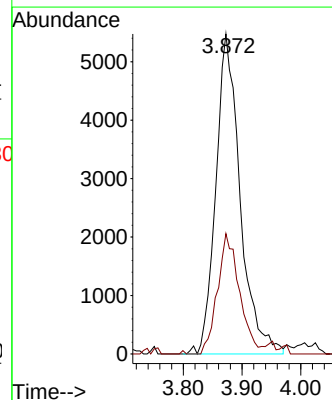
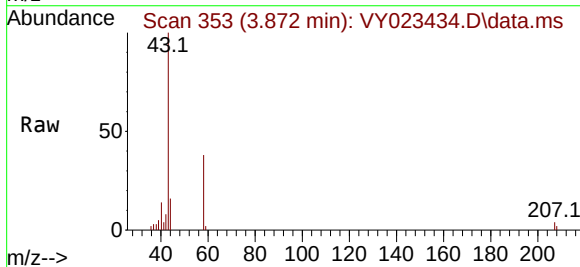
Instrument :
MSVOA_Y
ClientSampleId :
SED-01-0-2

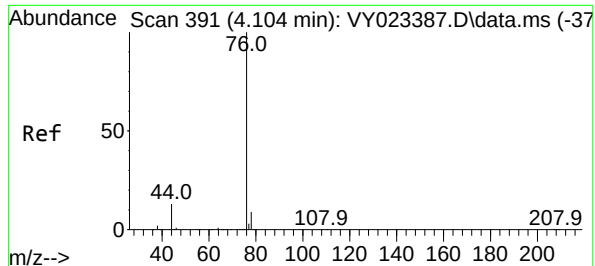
Tgt Ion:168 Resp: 523687
Ion Ratio Lower Upper
168 100
99 48.1 39.7 59.5



#16
Acetone
Concen: 15.068 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023434.D
Acq: 10 Oct 2025 13:16

Tgt Ion: 43 Resp: 15709
Ion Ratio Lower Upper
43 100
58 36.6 27.7 41.5

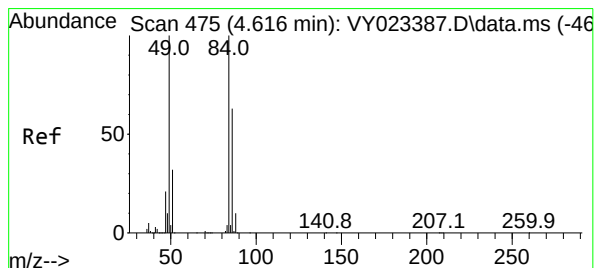
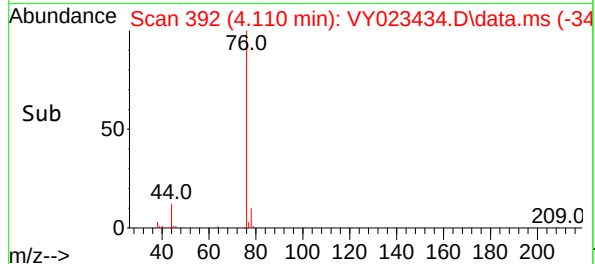
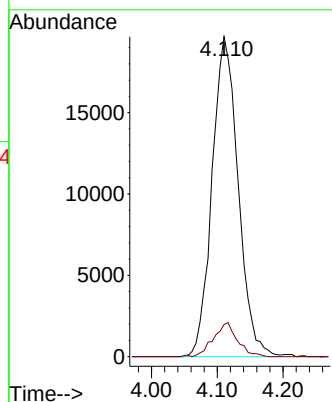
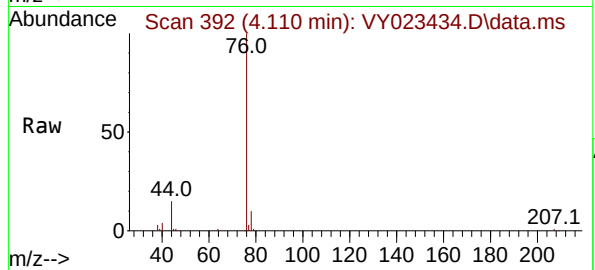




#17
Carbon Disulfide
Concen: 4.057 ug/l
RT: 4.110 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY023434.D
Acq: 10 Oct 2025 13:16

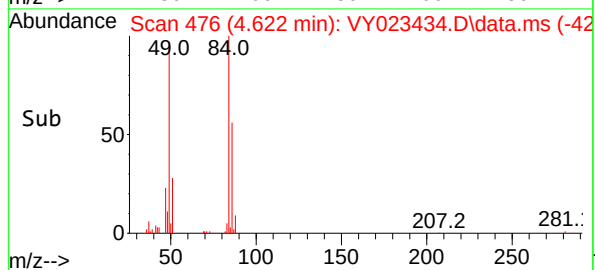
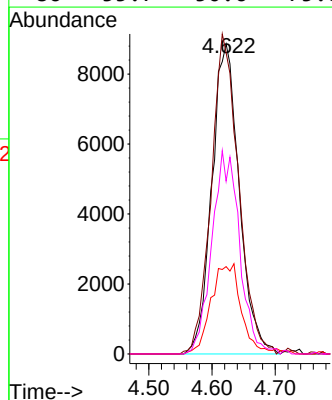
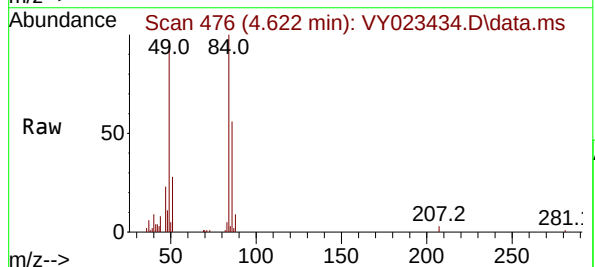
Instrument :
MSVOA_Y
ClientSampleId :
SED-01-0-2

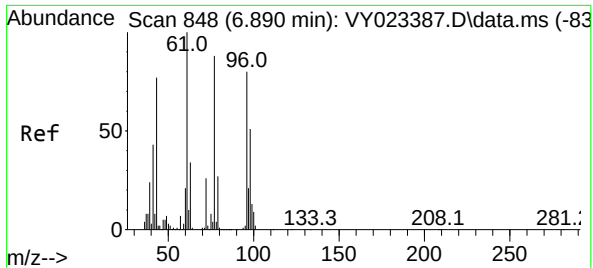
Tgt Ion: 76 Resp: 54247
Ion Ratio Lower Upper
76 100
78 10.0 7.3 10.9



#20
Methylene Chloride
Concen: 4.726 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023434.D
Acq: 10 Oct 2025 13:16

Tgt Ion: 84 Resp: 26641
Ion Ratio Lower Upper
84 100
49 97.2 80.2 120.4
51 28.2 25.9 38.9
86 55.7 50.6 75.8





#25

2-Butanone

Concen: 3.598 ug/l

RT: 6.896 min Scan# 84

Delta R.T. 0.006 min

Lab File: VY023434.D

Acq: 10 Oct 2025 13:16

Instrument :

MSVOA_Y

ClientSampleId :

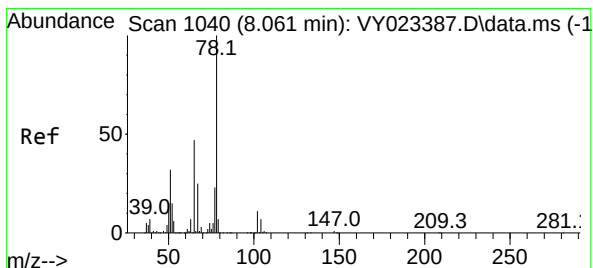
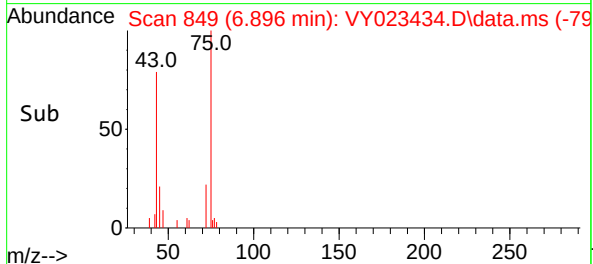
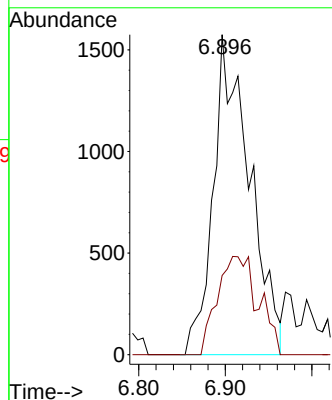
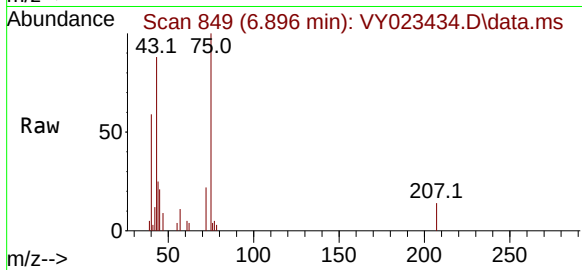
SED-01-0-2

Tgt Ion: 43 Resp: 4579

Ion Ratio Lower Upper

43 100

72 24.8 27.4 41.2#



#33

1,2-Dichloroethane-d4

Concen: 62.766 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY023434.D

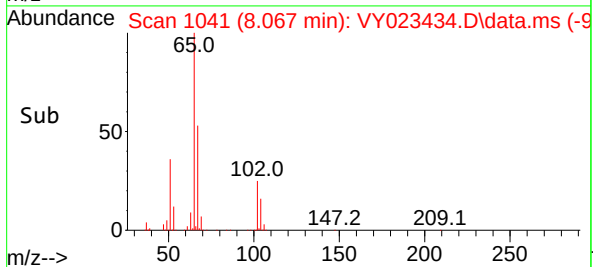
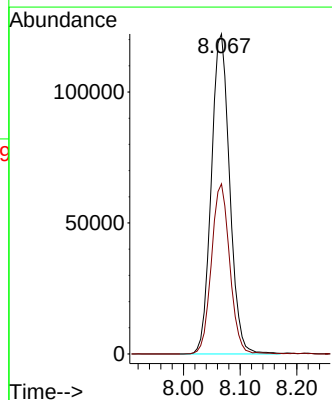
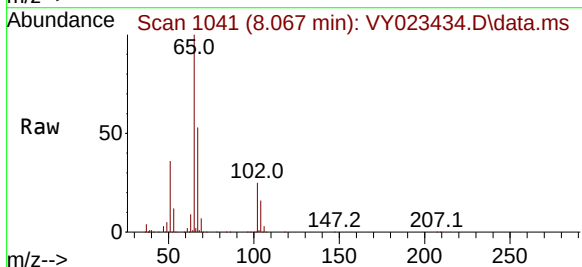
Acq: 10 Oct 2025 13:16

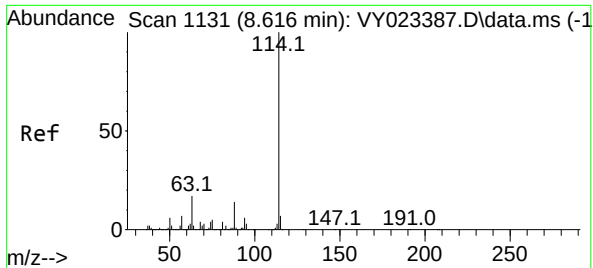
Tgt Ion: 65 Resp: 274862

Ion Ratio Lower Upper

65 100

67 52.9 0.0 105.8

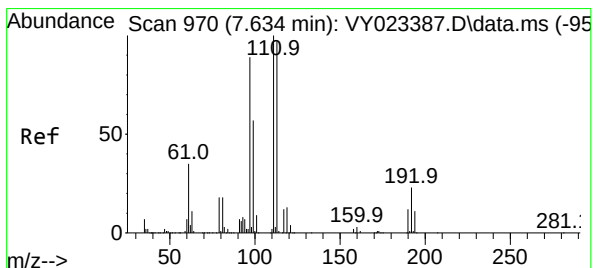
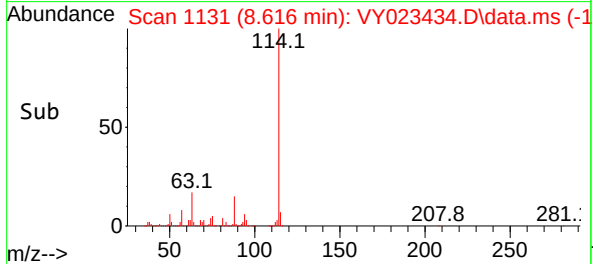
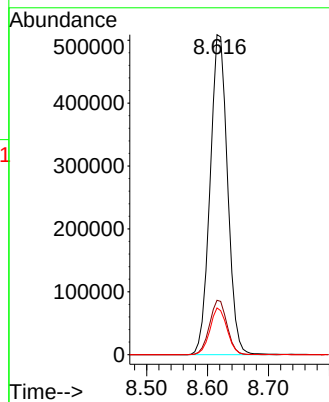
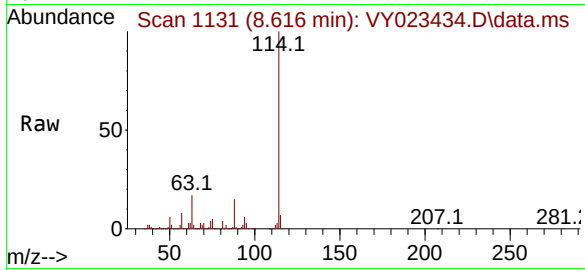




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023434.D
Acq: 10 Oct 2025 13:16

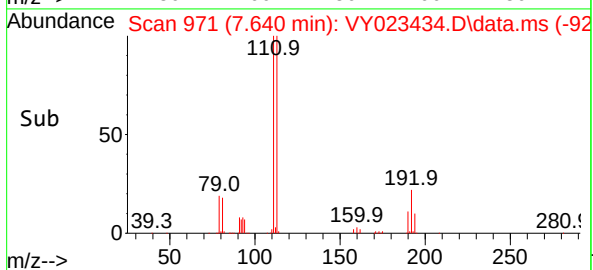
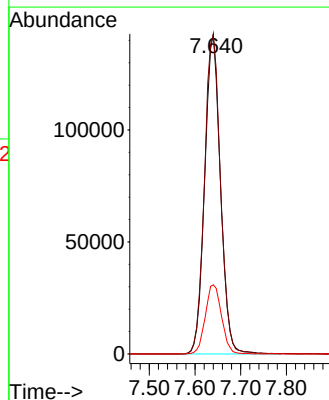
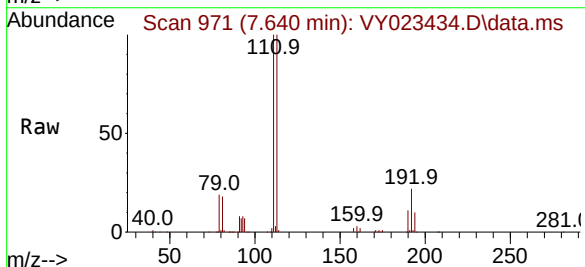
Instrument :
MSVOA_Y
ClientSampleId :
SED-01-0-2

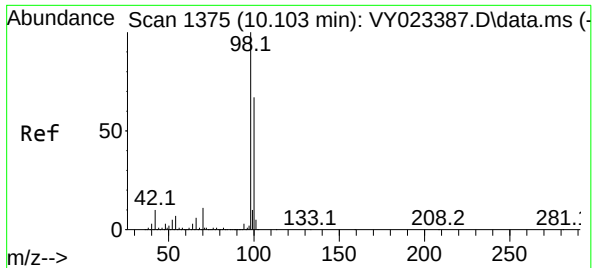
Tgt Ion:114 Resp: 1011660
Ion Ratio Lower Upper
114 100
63 17.0 0.0 34.2
88 14.6 0.0 28.4



#35
Dibromofluoromethane
Concen: 54.814 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023434.D
Acq: 10 Oct 2025 13:16

Tgt Ion:113 Resp: 340736
Ion Ratio Lower Upper
113 100
111 102.3 81.8 122.6
192 22.3 18.0 27.0

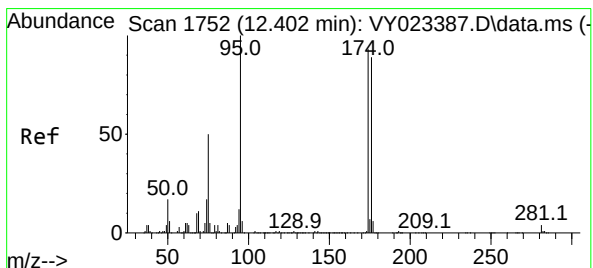
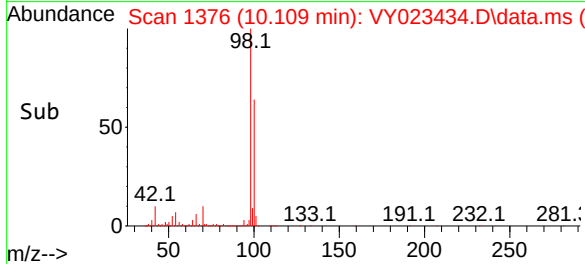
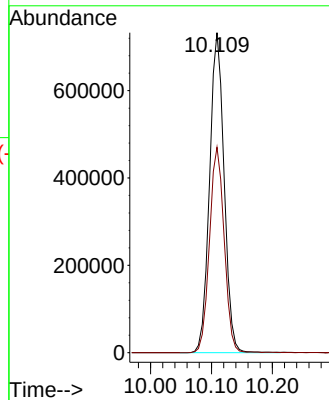
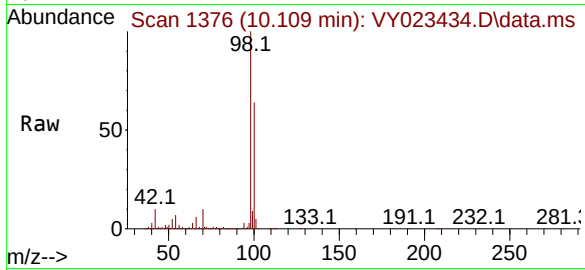




#50
Toluene-d8
Concen: 52.525 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023434.D
Acq: 10 Oct 2025 13:16

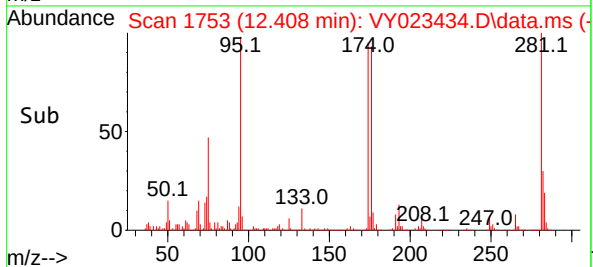
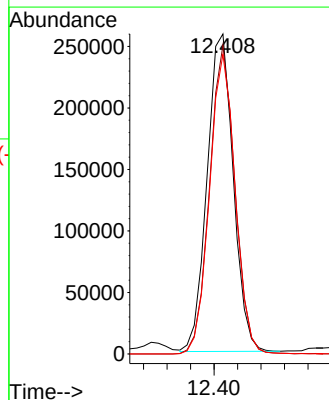
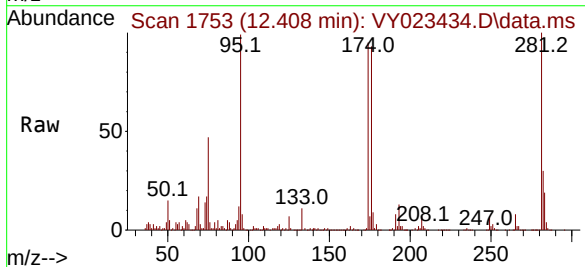
Instrument :
MSVOA_Y
ClientSampleId :
SED-01-0-2

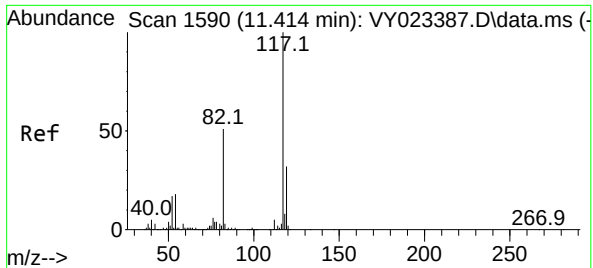
Tgt Ion: 98 Resp: 1215929
Ion Ratio Lower Upper
98 100
100 64.8 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 52.174 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023434.D
Acq: 10 Oct 2025 13:16

Tgt Ion: 95 Resp: 398755
Ion Ratio Lower Upper
95 100
174 94.3 0.0 192.8
176 92.6 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023434.D

Acq: 10 Oct 2025 13:16

Instrument :

MSVOA_Y

ClientSampleId :

SED-01-0-2

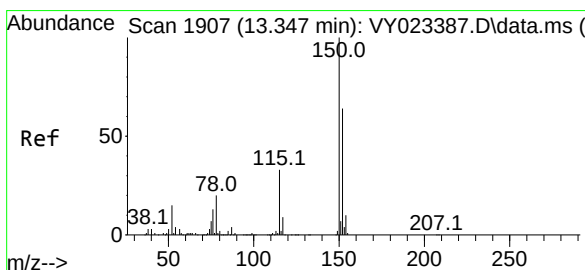
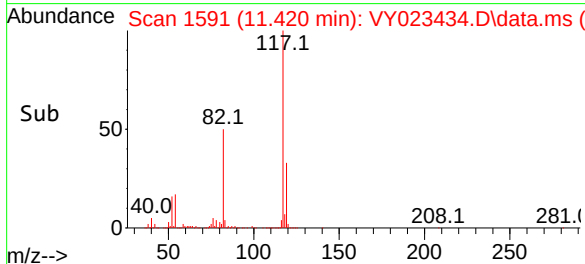
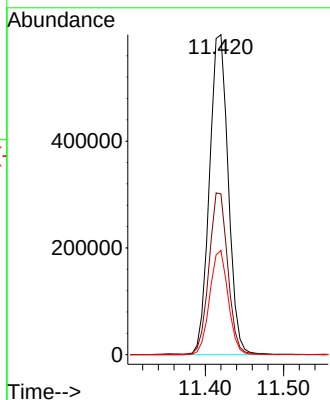
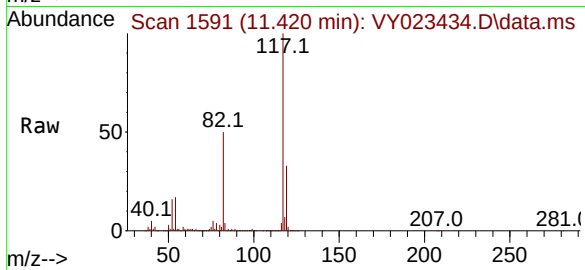
Tgt Ion:117 Resp: 1001091

Ion Ratio Lower Upper

117 100

82 50.1 41.0 61.4

119 32.6 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023434.D

Acq: 10 Oct 2025 13:16

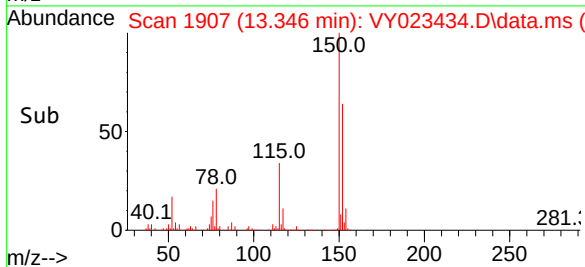
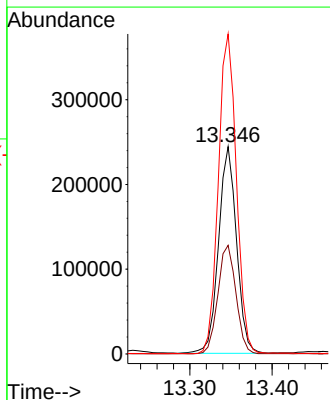
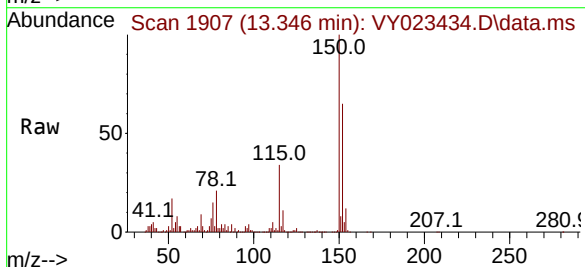
Tgt Ion:152 Resp: 371877

Ion Ratio Lower Upper

152 100

115 52.7 27.1 81.2

150 154.8 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023434.D
 Acq On : 10 Oct 2025 13:16
 Operator : SY/MD
 Sample : Q3323-01
 Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-01-0-2

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\82Y100725S.M

Title : SW846 8260

Signal : TIC: VY023434.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.110	381	392	403	rBV	25690	73118	1.72%	0.214%
2	4.616	462	475	486	rBV3	33606	111539	2.63%	0.326%
3	7.640	959	971	977	rBV	473246	1143861	26.97%	3.348%
4	7.713	977	983	1001	rVB	633674	1443050	34.03%	4.223%
5	8.067	1030	1041	1055	rBV	348920	788502	18.59%	2.308%
6	8.616	1122	1131	1143	rBV	1106962	2207495	52.06%	6.460%
7	10.109	1369	1376	1385	rBV	1837785	3081042	72.66%	9.017%
8	10.414	1417	1426	1431	rBV	52014	96032	2.26%	0.281%
9	10.731	1474	1478	1484	rVB2	39582	71610	1.69%	0.210%
10	11.018	1516	1525	1530	rBV7	27015	69000	1.63%	0.202%
11	11.072	1530	1534	1538	rVV3	38096	66351	1.56%	0.194%
12	11.115	1538	1541	1548	rVB5	24052	43221	1.02%	0.126%
13	11.225	1554	1559	1569	rVB10	16417	53879	1.27%	0.158%
14	11.341	1569	1578	1583	rBV5	40670	96320	2.27%	0.282%
15	11.414	1584	1590	1603	rVB	1711513	2936109	69.24%	8.593%
16	11.615	1617	1623	1630	rBV2	117955	248227	5.85%	0.726%
17	11.676	1630	1633	1642	rVB5	32645	83218	1.96%	0.244%
18	11.767	1642	1648	1652	rBV2	125867	238190	5.62%	0.697%
19	11.865	1661	1664	1667	rBV	56450	76551	1.81%	0.224%
20	11.914	1667	1672	1679	rVB	87842	162243	3.83%	0.475%
21	11.987	1679	1684	1686	rBV2	97168	146642	3.46%	0.429%
22	12.017	1686	1689	1701	rVB4	100650	223441	5.27%	0.654%
23	12.127	1701	1707	1718	rBV6	146433	503803	11.88%	1.474%
24	12.243	1718	1726	1732	rBV4	174129	463497	10.93%	1.356%
25	12.316	1733	1738	1742	rVB4	53969	101805	2.40%	0.298%
26	12.414	1747	1754	1761	rBV2	2248417	4240492	100.00%	12.410%
27	12.499	1761	1768	1777	rBV6	147127	411830	9.71%	1.205%
28	12.657	1786	1794	1800	rBV6	172005	559207	13.19%	1.637%
29	12.761	1800	1811	1820	rVV5	325644	1023323	24.13%	2.995%
30	12.871	1826	1829	1833	rVB4	168614	233438	5.50%	0.683%
31	12.932	1833	1839	1842	rVB5	73482	152091	3.59%	0.445%
32	12.987	1842	1848	1855	rBV4	250155	696555	16.43%	2.038%
33	13.054	1855	1859	1862	rVV2	155202	247951	5.85%	0.726%
34	13.090	1862	1865	1873	rVB7	209842	449109	10.59%	1.314%
35	13.176	1876	1879	1882	rVV3	93292	151380	3.57%	0.443%
36	13.218	1882	1886	1891	rVV4	142769	305124	7.20%	0.893%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023434.D
 Acq On : 10 Oct 2025 13:16
 Operator : SY/MD
 Sample : Q3323-01
 Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-01-0-2

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\82Y100725S.M
 Title : SW846 8260

37	13.273	1891	1895	1898	rVV	200413	308448	7.27%	0.903%
38	13.346	1901	1907	1915	rVB	1427607	2604583	61.42%	7.622%
39	13.413	1915	1918	1920	rBV	109582	159073	3.75%	0.466%
40	13.529	1934	1937	1940	rBV4	106841	133080	3.14%	0.389%
41	13.615	1946	1951	1952	rBV3	193577	300650	7.09%	0.880%
42	13.730	1967	1970	1976	rBV6	145731	233559	5.51%	0.684%
43	13.962	2005	2008	2009	rBV2	96014	114049	2.69%	0.334%
44	13.993	2010	2013	2017	rVB3	192806	268610	6.33%	0.786%
45	14.066	2018	2025	2030	rVB7	341929	810405	19.11%	2.372%
46	14.127	2031	2035	2038	rBV3	164103	253331	5.97%	0.741%
47	14.175	2038	2043	2046	rBV3	402021	728397	17.18%	2.132%
48	14.285	2058	2061	2066	rBV4	155637	297491	7.02%	0.871%
49	14.468	2087	2091	2093	rBV3	237163	369812	8.72%	1.082%
50	14.645	2117	2120	2126	rVB5	352144	605348	14.28%	1.772%
51	14.761	2136	2139	2142	rBV2	346689	459310	10.83%	1.344%
52	14.852	2151	2154	2158	rVB4	316005	479547	11.31%	1.403%
53	15.029	2180	2183	2191	rVB3	581086	955565	22.53%	2.796%
54	15.346	2231	2235	2247	rVB6	353140	846106	19.95%	2.476%
55	15.505	2256	2261	2268	rVB3	670833	1243824	29.33%	3.640%

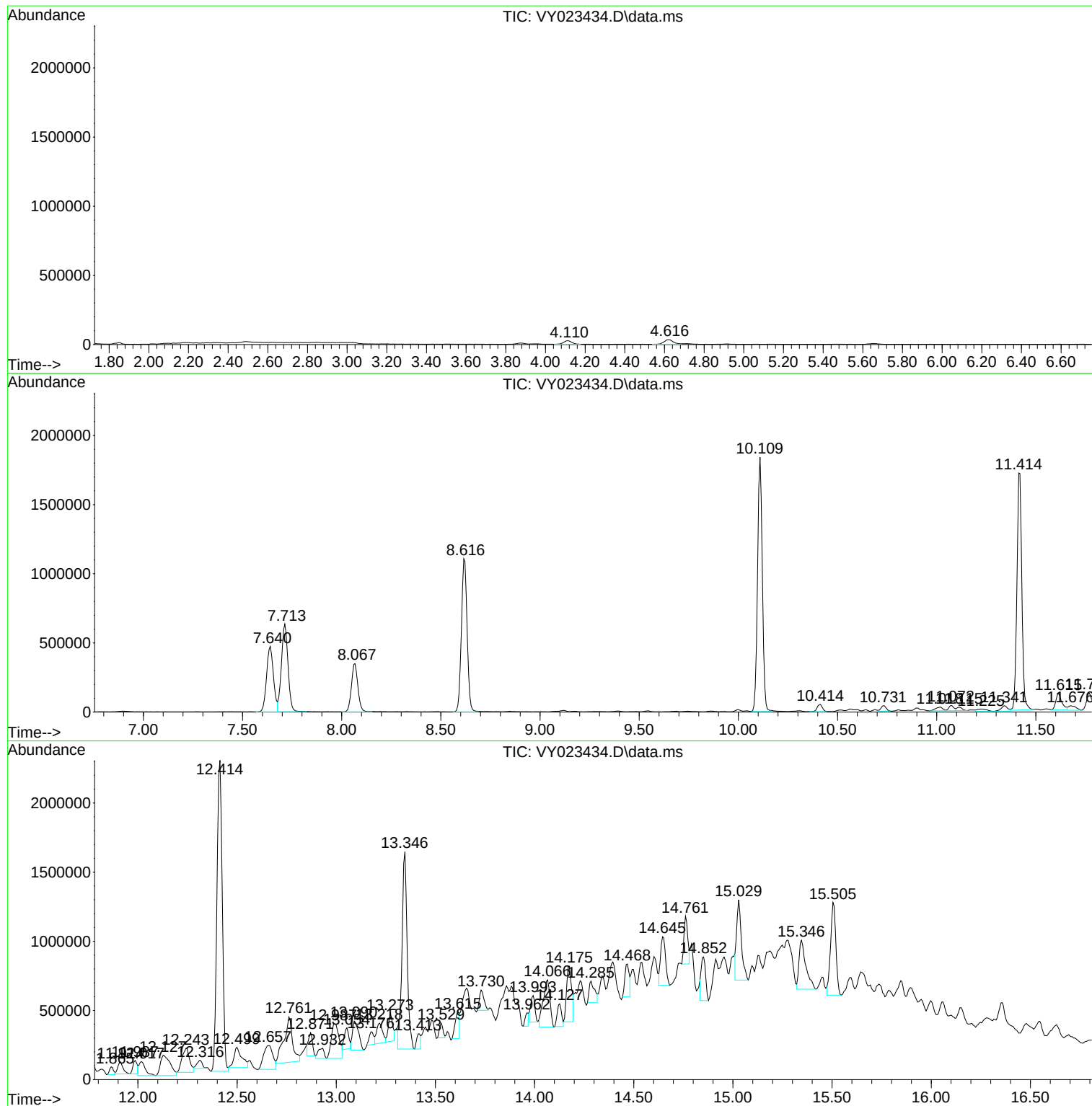
Sum of corrected areas: 34170434

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023434.D
Acq On : 10 Oct 2025 13:16
Operator : SY/MD
Sample : Q3323-01
Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-01-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023434.D
Acq On : 10 Oct 2025 13:16
Operator : SY/MD
Sample : Q3323-01
Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-01-0-2

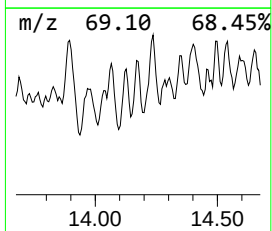
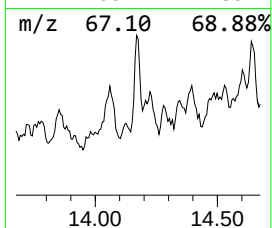
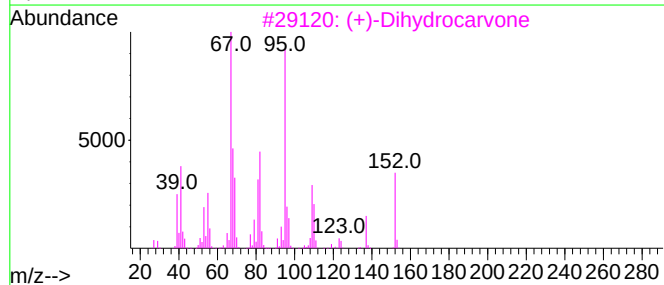
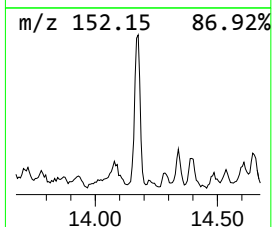
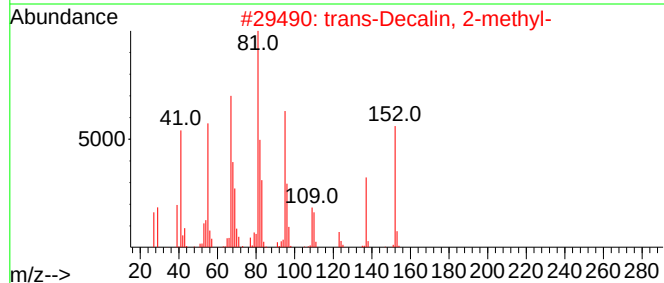
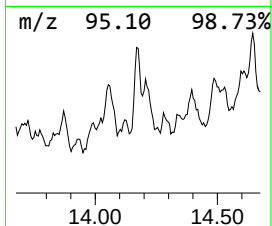
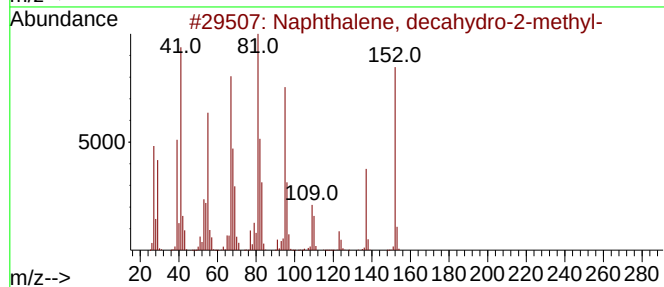
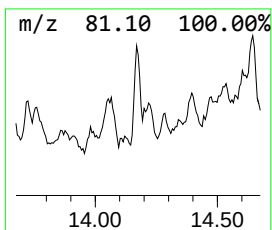
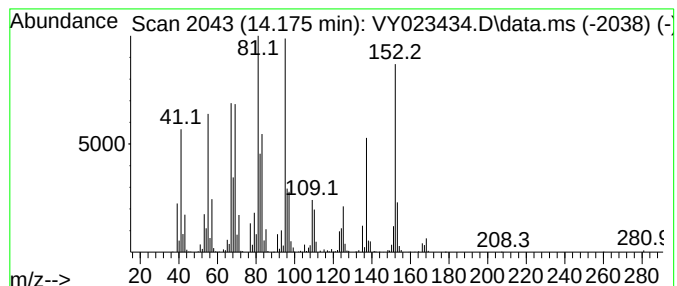
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

Peak Number 5 Naphthalene, decahydro-2-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.176	13.98 ug/l	728397	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	94
2			trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	87
3			(+)-Dihydrocarvone	152	C10H16O	005524-05-0	49
4			Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	43
5			1-Adamantanol	152	C10H16O	000768-95-6	41



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023434.D
Acq On : 10 Oct 2025 13:16
Operator : SY/MD
Sample : Q3323-01
Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

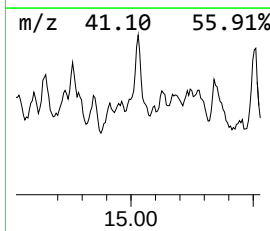
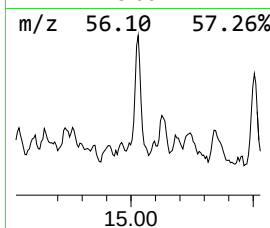
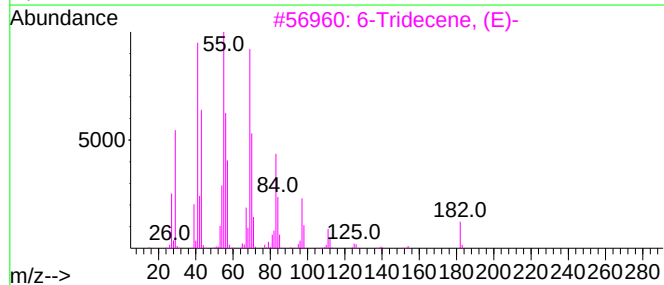
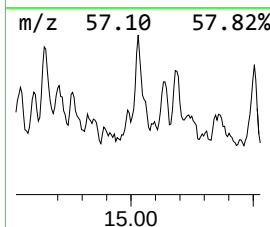
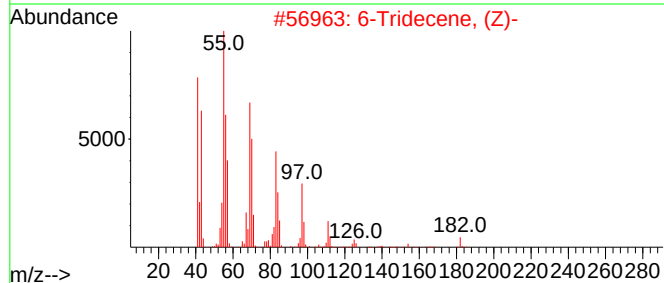
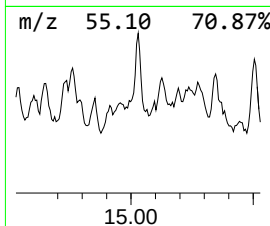
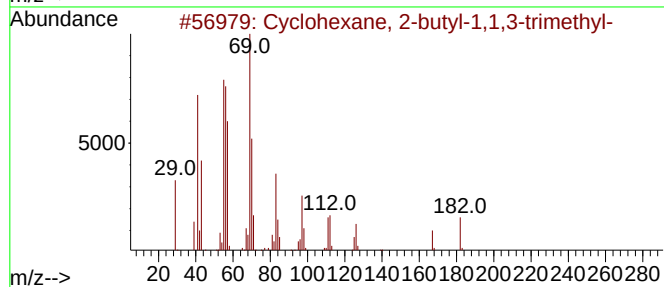
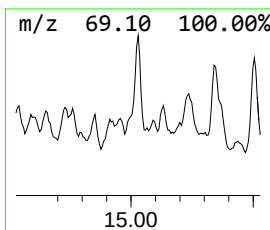
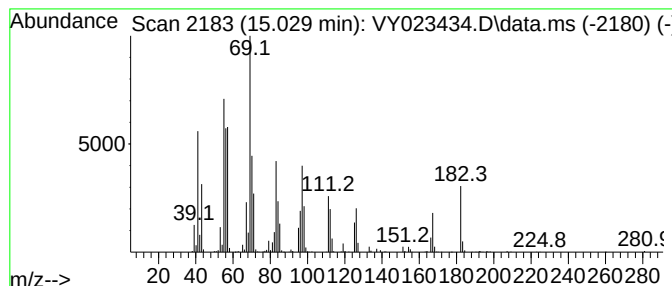
Instrument :
MSVOA_Y
ClientSampleId :
SED-01-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

Peak Number 8 Cyclohexane, 2-butyl-1,1,3-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD			R.T.
15.029	18.34 ug/l	955565	1,4-Dichlorobenzene-d4			13.346
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Cyclohexane, 2-butyl-1,1,3-trime...		182	C13H26	054676-39-0	95
2	6-Tridecene, (Z)-		182	C13H26	006508-77-6	70
3	6-Tridecene, (E)-		182	C13H26	006434-76-0	62
4	6-Tridecene		182	C13H26	024949-38-0	55
5	2-Methyl-1-dodecene		182	C13H26	016435-49-7	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023434.D
Acq On : 10 Oct 2025 13:16
Operator : SY/MD
Sample : Q3323-01
Misc : 6.55g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-01-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.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
Naphthalene, de...	14.176	14.0	ug/l	728397	4	13.346	2604580	50.0
Cyclohexane, 2-...	15.029	18.3	ug/l	955565	4	13.346	2604580	50.0

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-02-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	57.3
Sample Wt/Vol:	3.46 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023435.D	1	10/10/25 13:40	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.90	U	2.90	12.6	ug/Kg
74-87-3	Chloromethane	2.90	U	2.90	12.6	ug/Kg
75-01-4	Vinyl Chloride	2.00	U	2.00	12.6	ug/Kg
74-83-9	Bromomethane	2.70	U	2.70	12.6	ug/Kg
75-00-3	Chloroethane	3.20	U	3.20	12.6	ug/Kg
75-69-4	Trichlorofluoromethane	3.10	U	3.10	12.6	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.70	U	2.70	12.6	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	2.50	12.6	ug/Kg
67-64-1	Acetone	34.3	J	12.0	63.0	ug/Kg
75-15-0	Carbon Disulfide	4.20	J	2.70	12.6	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.80	U	1.80	12.6	ug/Kg
79-20-9	Methyl Acetate	3.90	U	3.90	12.6	ug/Kg
75-09-2	Methylene Chloride	9.70	J	8.90	25.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.20	U	2.20	12.6	ug/Kg
75-34-3	1,1-Dichloroethane	2.00	U	2.00	12.6	ug/Kg
110-82-7	Cyclohexane	2.00	U	2.00	12.6	ug/Kg
78-93-3	2-Butanone	16.5	U	16.5	63.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.40	U	2.40	12.6	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.90	U	1.90	12.6	ug/Kg
74-97-5	Bromochloromethane	2.90	U	2.90	12.6	ug/Kg
67-66-3	Chloroform	2.10	U	2.10	12.6	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.30	U	2.30	12.6	ug/Kg
108-87-2	Methylcyclohexane	2.30	U	2.30	12.6	ug/Kg
71-43-2	Benzene	2.00	U	2.00	12.6	ug/Kg
107-06-2	1,2-Dichloroethane	2.00	U	2.00	12.6	ug/Kg
79-01-6	Trichloroethene	2.00	U	2.00	12.6	ug/Kg
78-87-5	1,2-Dichloropropane	2.30	U	2.30	12.6	ug/Kg
75-27-4	Bromodichloromethane	2.00	U	2.00	12.6	ug/Kg
108-10-1	4-Methyl-2-Pentanone	9.00	U	9.00	63.0	ug/Kg
108-88-3	Toluene	2.00	U	2.00	12.6	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc			Date Collected:	10/09/25	
Project:	Con Edison Richmond Terrace			Date Received:	10/09/25	
Client Sample ID:	SED-02-0-2			SDG No.:	Q3323	
Lab Sample ID:	Q3323-02			Matrix:	SOIL	
Analytical Method:	8260D			% Solid:	57.3	
Sample Wt/Vol:	3.46	Units:	g	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023435.D	1	10/10/25 13:40	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.60	U	1.60	12.6	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.60	U	1.60	12.6	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.30	U	2.30	12.6	ug/Kg
591-78-6	2-Hexanone	9.30	U	9.30	63.0	ug/Kg
124-48-1	Dibromochloromethane	2.20	U	2.20	12.6	ug/Kg
106-93-4	1,2-Dibromoethane	2.20	U	2.20	12.6	ug/Kg
127-18-4	Tetrachloroethene	2.60	U	2.60	12.6	ug/Kg
108-90-7	Chlorobenzene	2.30	U	2.30	12.6	ug/Kg
100-41-4	Ethyl Benzene	1.70	U	1.70	12.6	ug/Kg
179601-23-1	m/p-Xylenes	3.10	U	3.10	25.2	ug/Kg
95-47-6	o-Xylene	2.10	U	2.10	12.6	ug/Kg
100-42-5	Styrene	1.80	U	1.80	12.6	ug/Kg
75-25-2	Bromoform	2.20	U	2.20	12.6	ug/Kg
98-82-8	Isopropylbenzene	2.00	U	2.00	12.6	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	3.10	U	3.10	12.6	ug/Kg
541-73-1	1,3-Dichlorobenzene	4.30	U	4.30	12.6	ug/Kg
106-46-7	1,4-Dichlorobenzene	3.90	U	3.90	12.6	ug/Kg
95-50-1	1,2-Dichlorobenzene	3.70	U	3.70	12.6	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.60	U	4.60	12.6	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	7.50	U	7.50	12.6	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	8.00	U	8.00	12.6	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	63.0		63 - 155	126%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		70 - 134	108%	SPK: 50
2037-26-5	Toluene-d8	54.1		74 - 123	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	59.8		17 - 146	120%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	567000	7.713			
540-36-3	1,4-Difluorobenzene	1090000	8.616			
3114-55-4	Chlorobenzene-d5	1150000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	533000	13.347			

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-02-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	57.3
Sample Wt/Vol:	3.46 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023435.D	1	10/10/25 13:40	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
002958-76-1	Naphthalene, decahydro-2-methyl-	13.4	J		14.2	ug/Kg
054676-39-0	Cyclohexane, 2-butyl-1,1,3-trimeth	14.0	J		15.0	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\VY101025\
 Data File : VY023435.D
 Acq On : 10 Oct 2025 13:40
 Operator : SY/MD
 Sample : Q3323-02
 Misc : 3.46g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-02-0-2

Quant Time: Oct 11 01:57:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

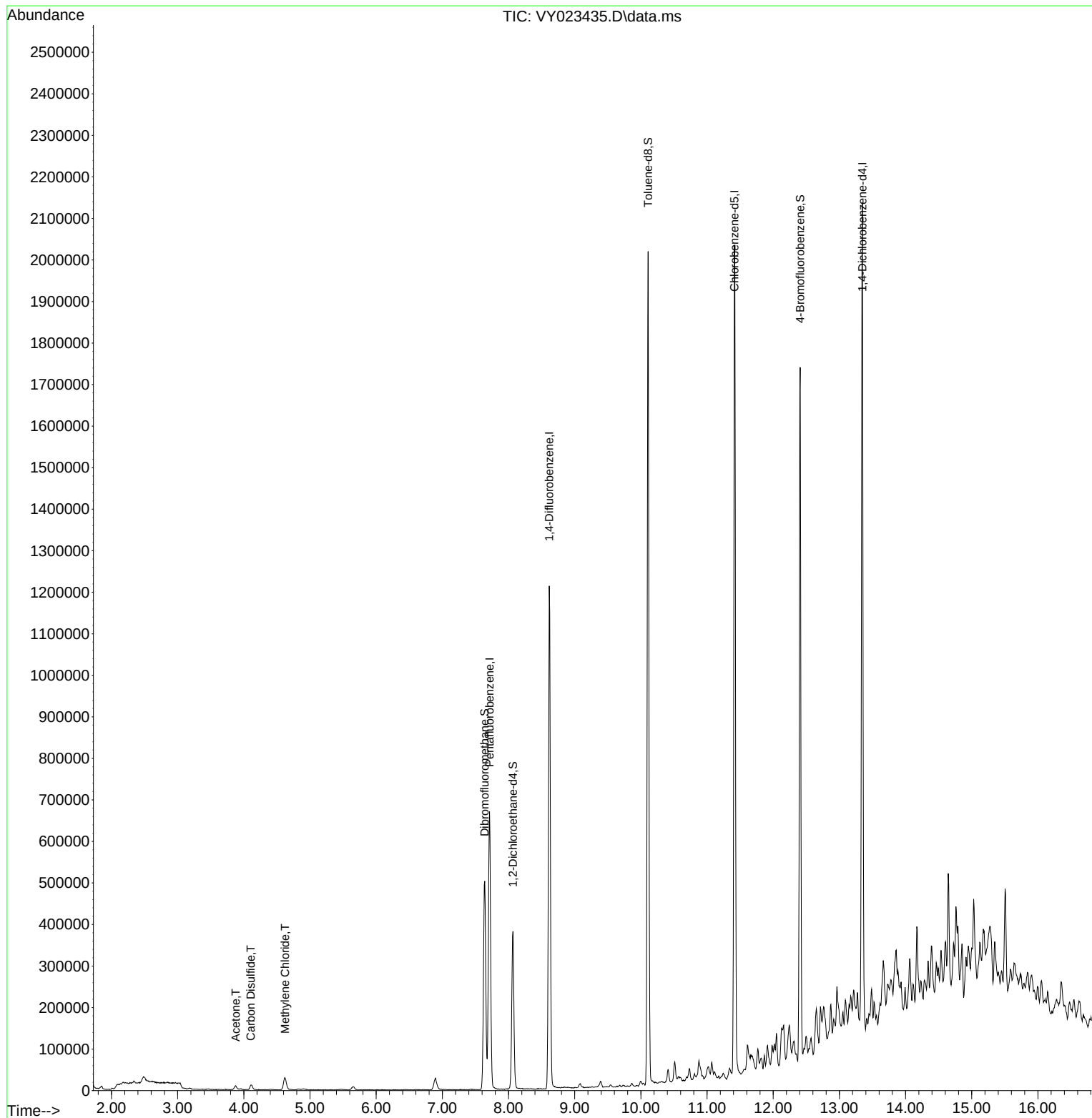
Internal Standards						
1) Pentafluorobenzene	7.713	168	566681	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1088713	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1150595	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	533404	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	298342	62.959	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	125.920%
35) Dibromofluoromethane	7.640	113	359608	53.756	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	107.520%
50) Toluene-d8	10.109	98	1347045	54.070	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	108.140%
62) 4-Bromofluorobenzene	12.408	95	491472	59.754	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	119.500%
Target Compounds						
16) Acetone	3.879	43	15326	13.585	ug/l	99
17) Carbon Disulfide	4.104	76	24235	1.675	ug/l	99
20) Methylene Chloride	4.622	84	23577	3.865	ug/l	92

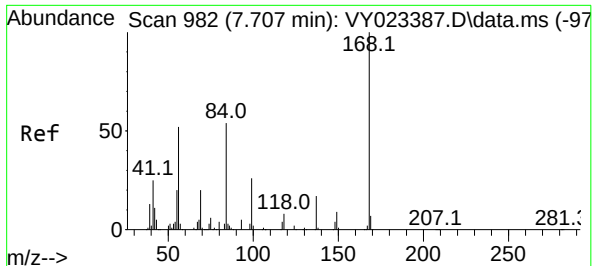
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023435.D
Acq On : 10 Oct 2025 13:40
Operator : SY/MD
Sample : Q3323-02
Misc : 3.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-02-0-2

Quant Time: Oct 11 01:57:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

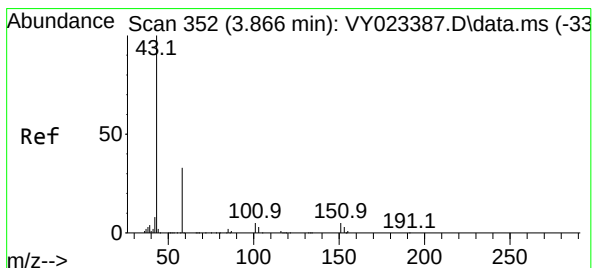
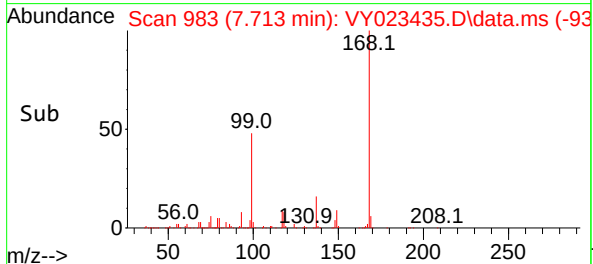
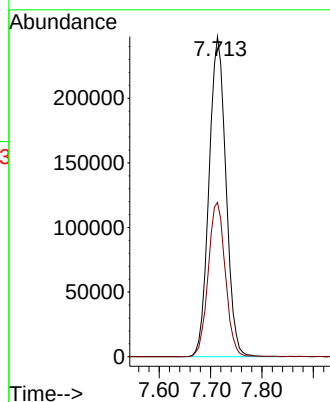
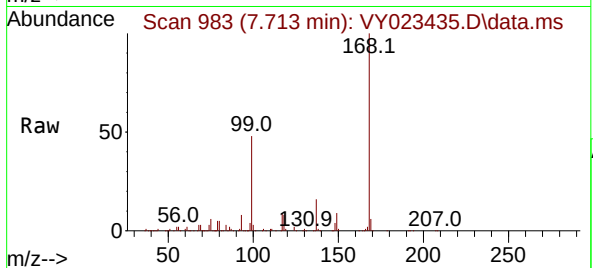




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023435.D
Acq: 10 Oct 2025 13:40

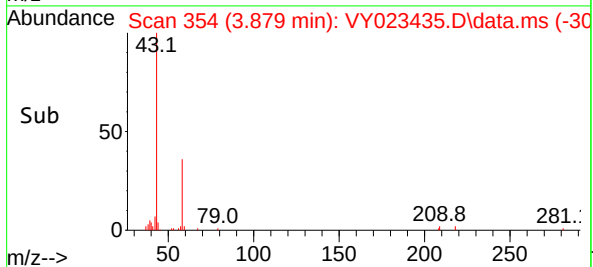
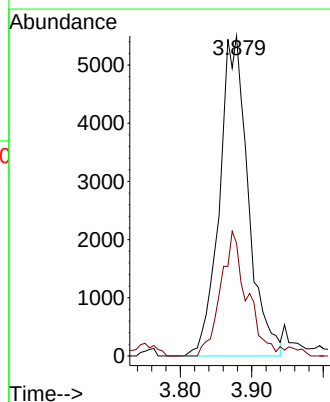
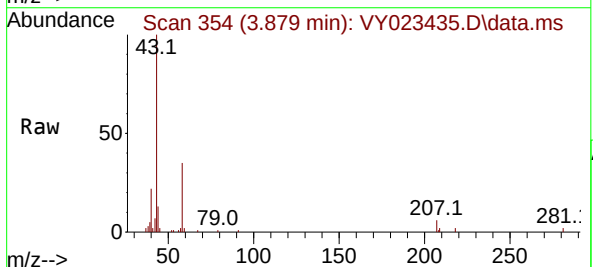
Instrument :
MSVOA_Y
ClientSampleId :
SED-02-0-2

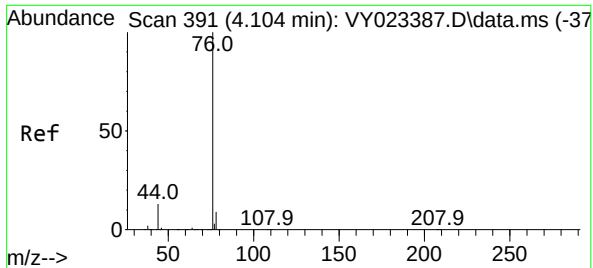
Tgt Ion:168 Resp: 566681
Ion Ratio Lower Upper
168 100
99 48.2 39.7 59.5



#16
Acetone
Concen: 13.585 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.012 min
Lab File: VY023435.D
Acq: 10 Oct 2025 13:40

Tgt Ion: 43 Resp: 15326
Ion Ratio Lower Upper
43 100
58 35.3 27.7 41.5

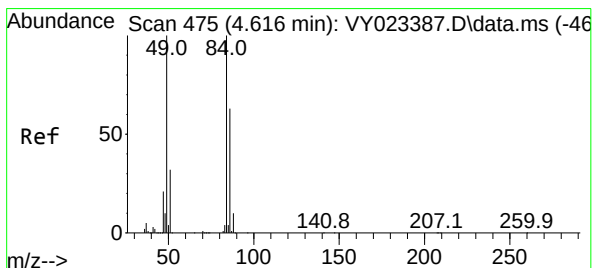
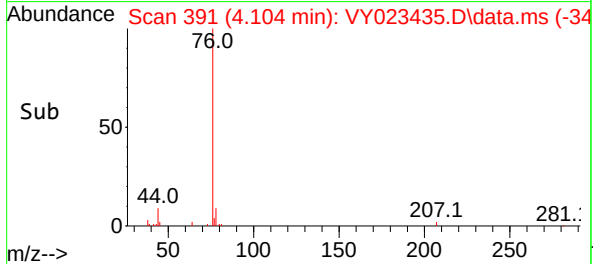
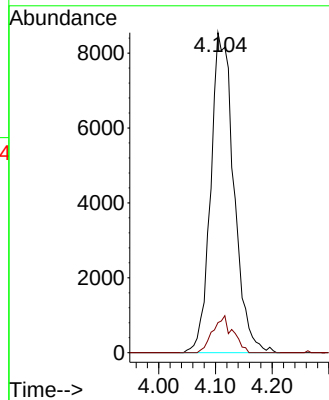
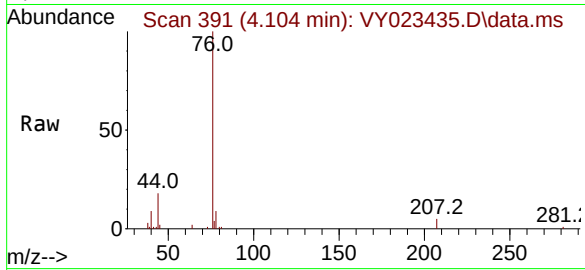




#17
Carbon Disulfide
Concen: 1.675 ug/l
RT: 4.104 min Scan# 391
Delta R.T. 0.000 min
Lab File: VY023435.D
Acq: 10 Oct 2025 13:40

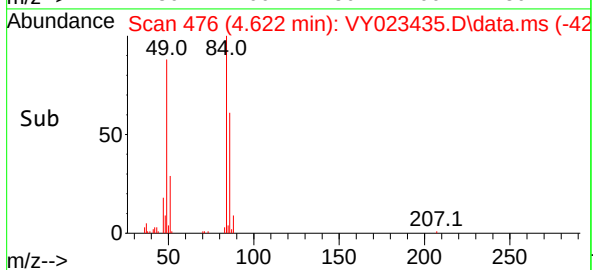
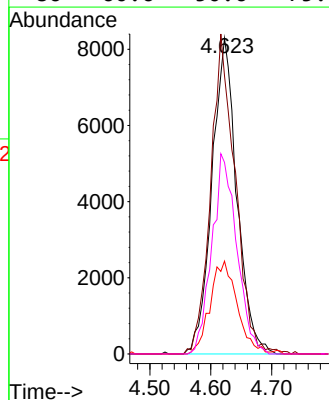
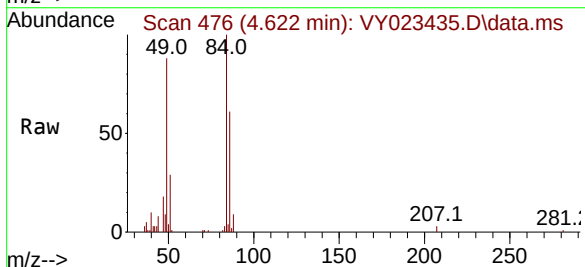
Instrument :
MSVOA_Y
ClientSampleId :
SED-02-0-2

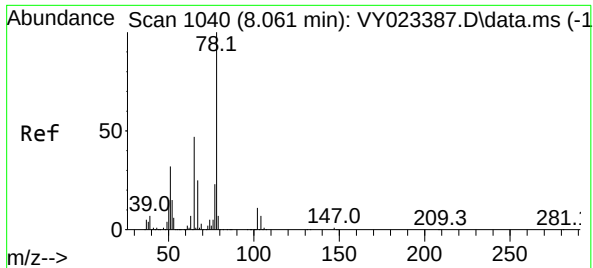
Tgt Ion: 76 Resp: 24235
Ion Ratio Lower Upper
76 100
78 9.4 7.3 10.9



#20
Methylene Chloride
Concen: 3.865 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023435.D
Acq: 10 Oct 2025 13:40

Tgt Ion: 84 Resp: 23577
Ion Ratio Lower Upper
84 100
49 88.0 80.2 120.4
51 29.4 25.9 38.9
86 60.6 50.6 75.8





#33

1,2-Dichloroethane-d4

Concen: 62.959 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023435.D

Acq: 10 Oct 2025 13:40

Instrument :

MSVOA_Y

ClientSampleId :

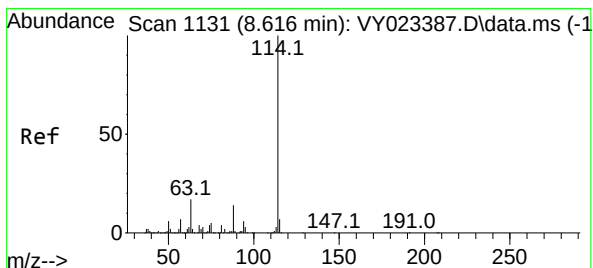
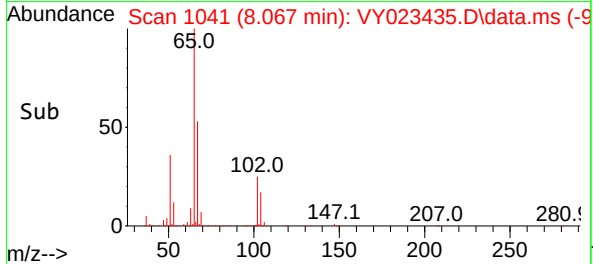
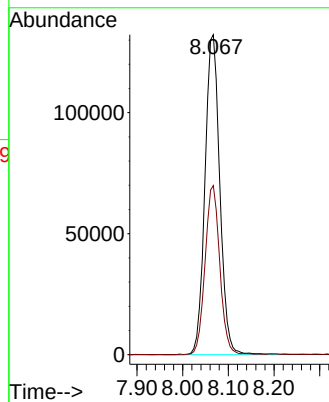
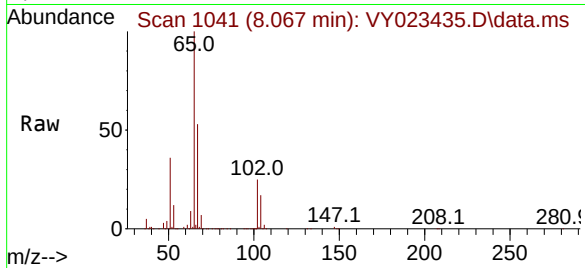
SED-02-0-2

Tgt Ion: 65 Resp: 298342

Ion Ratio Lower Upper

65 100

67 52.2 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023435.D

Acq: 10 Oct 2025 13:40

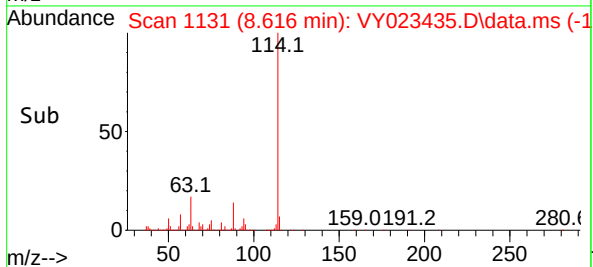
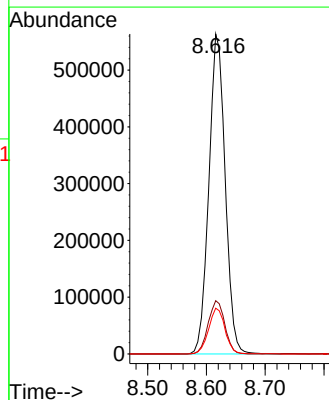
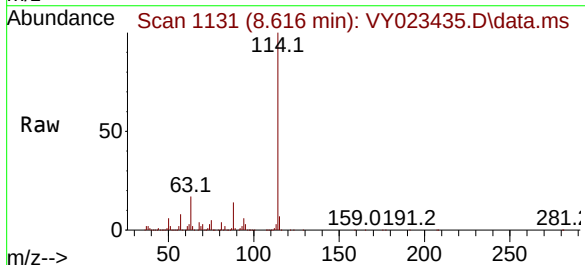
Tgt Ion:114 Resp: 1088713

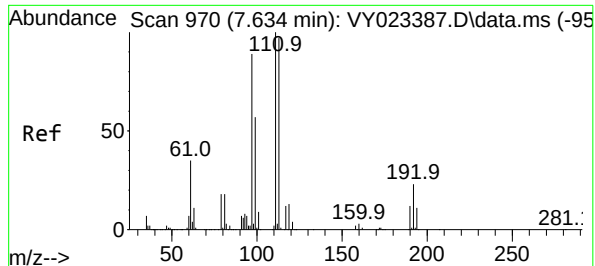
Ion Ratio Lower Upper

114 100

63 16.7 0.0 34.2

88 14.3 0.0 28.4





#35

Dibromofluoromethane

Concen: 53.756 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY023435.D

Acq: 10 Oct 2025 13:40

Instrument :

MSVOA_Y

ClientSampleId :

SED-02-0-2

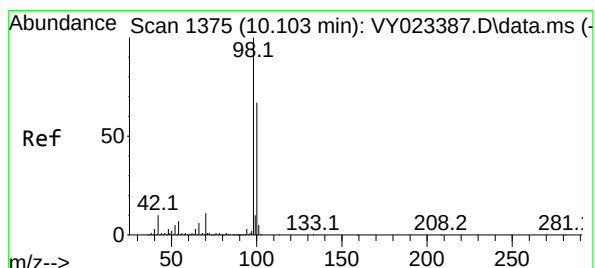
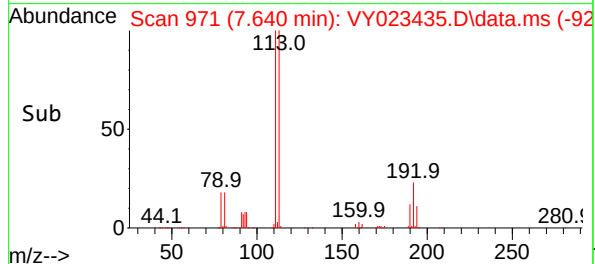
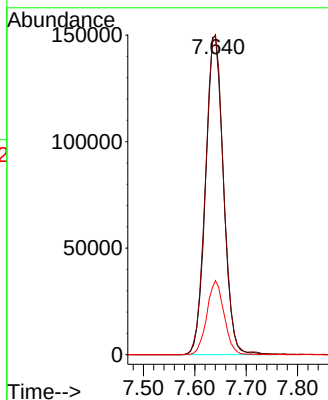
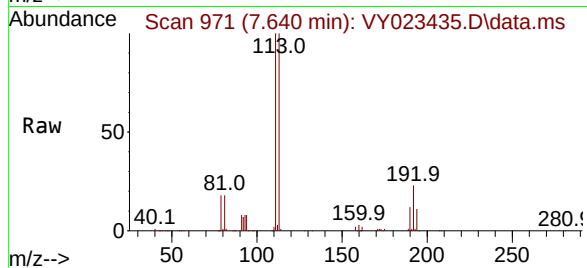
Tgt Ion:113 Resp: 359608

Ion Ratio Lower Upper

113 100

111 102.4 81.8 122.6

192 22.5 18.0 27.0



#50

Toluene-d8

Concen: 54.070 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023435.D

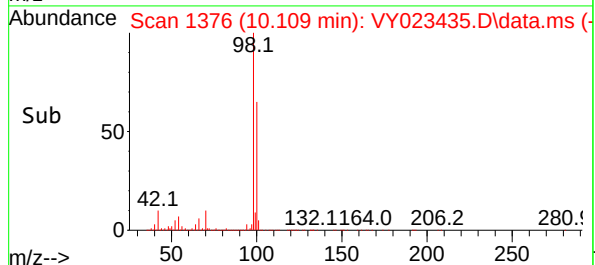
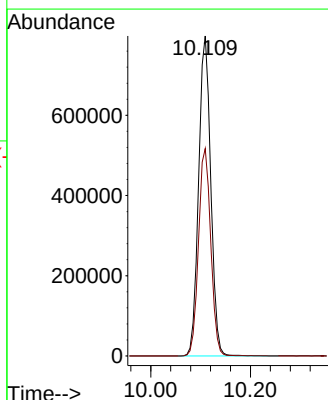
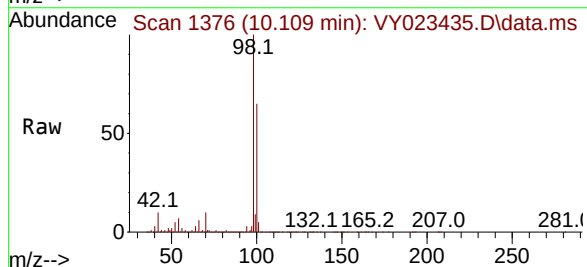
Acq: 10 Oct 2025 13:40

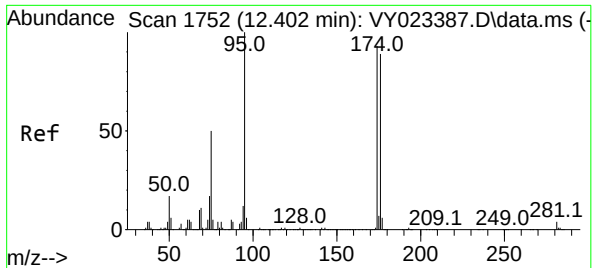
Tgt Ion: 98 Resp: 1347045

Ion Ratio Lower Upper

98 100

100 65.4 53.0 79.4

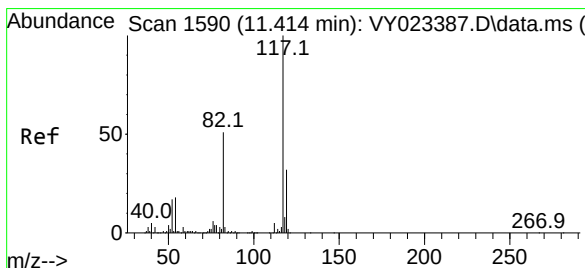
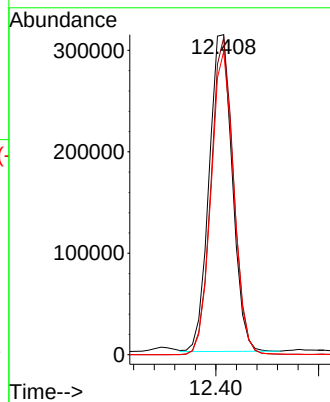
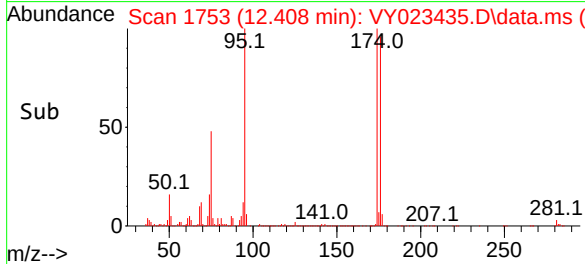
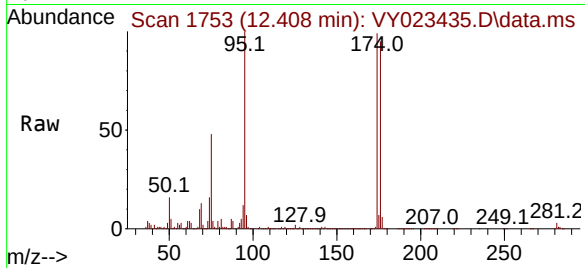




#62
4-Bromofluorobenzene
Concen: 59.754 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023435.D
Acq: 10 Oct 2025 13:40

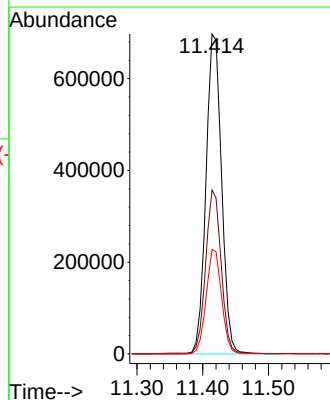
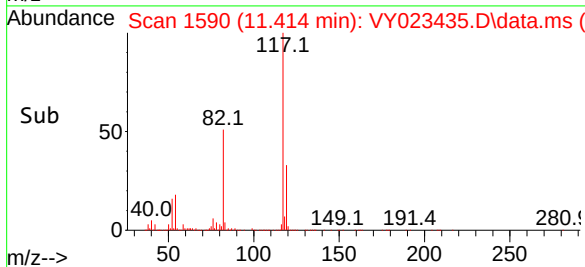
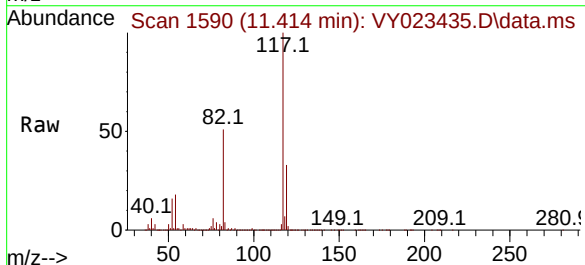
Instrument :
MSVOA_Y
ClientSampleId :
SED-02-0-2

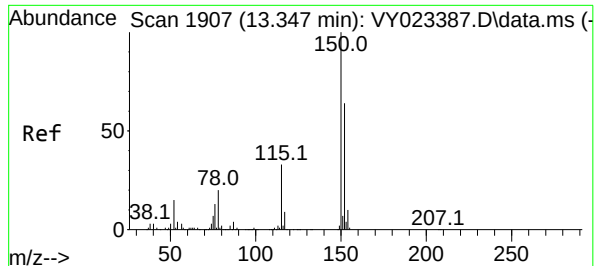
Tgt Ion: 95 Resp: 491472
Ion Ratio Lower Upper
95 100
174 97.1 0.0 192.8
176 93.4 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY023435.D
Acq: 10 Oct 2025 13:40

Tgt Ion: 117 Resp: 1150595
Ion Ratio Lower Upper
117 100
82 51.0 41.0 61.4
119 32.6 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023435.D

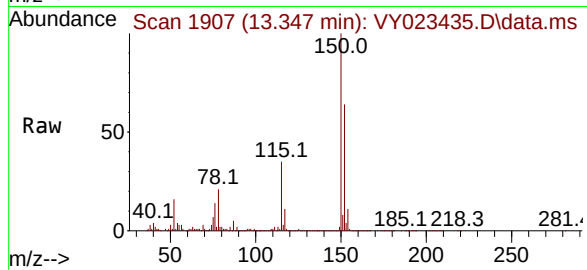
Acq: 10 Oct 2025 13:40

Instrument :

MSVOA_Y

ClientSampleId :

SED-02-0-2



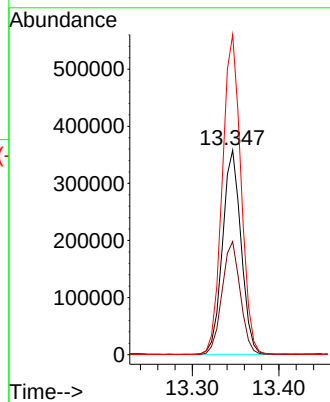
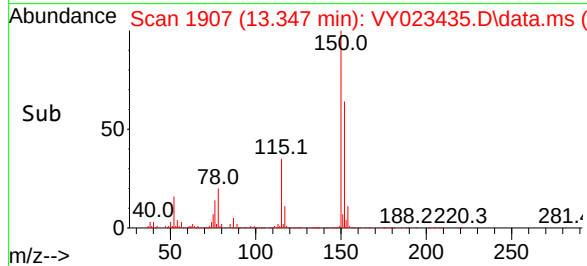
Tgt Ion:152 Resp: 533404

Ion Ratio Lower Upper

152 100

115 54.5 27.1 81.2

150 157.3 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023435.D
 Acq On : 10 Oct 2025 13:40
 Operator : SY/MD
 Sample : Q3323-02
 Misc : 3.46g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-02-0-2

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\82Y100725S.M
 Title : SW846 8260

Signal : TIC: VY023435.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.483	119	125	135	rBV	11921	37626	1.10%	0.158%
2	4.616	466	475	489	rBV3	28906	88779	2.59%	0.373%
3	6.896	833	849	860	rBV	28098	90556	2.65%	0.380%
4	7.640	960	971	977	rBV	502185	1215832	35.53%	5.104%
5	7.713	977	983	997	rVB	667818	1533357	44.81%	6.437%
6	8.067	1029	1041	1051	rBV	379731	859882	25.13%	3.610%
7	8.616	1122	1131	1147	rBV	1211172	2370119	69.26%	9.950%
8	10.109	1368	1376	1386	rBV	2007687	3422136	100.00%	14.366%
9	10.414	1421	1426	1431	rVB3	28246	47761	1.40%	0.200%
10	10.512	1436	1442	1448	rBV	45570	88889	2.60%	0.373%
11	10.731	1474	1478	1483	rVB3	26109	44882	1.31%	0.188%
12	10.877	1498	1502	1509	rVB2	37069	81655	2.39%	0.343%
13	11.018	1518	1525	1530	rBV8	25374	67087	1.96%	0.282%
14	11.073	1530	1534	1538	rVB2	29944	46655	1.36%	0.196%
15	11.341	1571	1578	1582	rBV4	26396	66171	1.93%	0.278%
16	11.414	1584	1590	1606	rVB	2000034	3345026	97.75%	14.042%
17	11.609	1617	1622	1629	rBV2	59707	152142	4.45%	0.639%
18	11.768	1643	1648	1652	rBV4	48075	88870	2.60%	0.373%
19	11.865	1661	1664	1667	rBV2	32038	40463	1.18%	0.170%
20	11.914	1667	1672	1679	rBV3	48786	98673	2.88%	0.414%
21	11.981	1679	1683	1686	rBV4	46383	73531	2.15%	0.309%
22	12.048	1691	1694	1700	rVB	77891	117629	3.44%	0.494%
23	12.127	1701	1707	1709	rBV4	87717	158997	4.65%	0.667%
24	12.243	1719	1726	1732	rBV6	73846	184907	5.40%	0.776%
25	12.408	1747	1753	1759	rBV	1670209	2641295	77.18%	11.088%
26	12.499	1765	1768	1772	rVB4	39087	57981	1.69%	0.243%
27	12.652	1786	1793	1799	rBV6	108395	278977	8.15%	1.171%
28	12.713	1799	1803	1807	rBV3	87151	156812	4.58%	0.658%
29	12.871	1826	1829	1832	rVB3	68776	90488	2.64%	0.380%
30	12.962	1841	1844	1854	rVB5	95013	190365	5.56%	0.799%
31	13.090	1862	1865	1871	rBV7	58854	98960	2.89%	0.415%
32	13.145	1871	1874	1876	rBV2	45047	61371	1.79%	0.258%
33	13.212	1883	1885	1891	rVB5	44298	60239	1.76%	0.253%
34	13.347	1900	1907	1915	rVB	1990656	3126881	91.37%	13.126%
35	13.487	1927	1930	1933	rVB3	69163	89450	2.61%	0.376%
36	13.523	1934	1936	1940	rVB5	40598	48651	1.42%	0.204%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023435.D
Acq On : 10 Oct 2025 13:40
Operator : SY/MD
Sample : Q3323-02
Misc : 3.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-02-0-2

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\82Y100725S.M
Title : SW846 8260

37	14.060	2022	2024	2030	rVB5	99723	154894	4.53%	0.650%
38	14.170	2038	2042	2049	rBV7	177091	332864	9.73%	1.397%
39	14.285	2058	2061	2066	rBV7	45699	102903	3.01%	0.432%
40	14.389	2075	2078	2086	rVB6	111651	213268	6.23%	0.895%
41	14.602	2109	2113	2116	rBV5	87931	159853	4.67%	0.671%
42	14.645	2116	2120	2127	rVB2	268296	441579	12.90%	1.854%
43	14.761	2136	2139	2142	rBV2	120417	170381	4.98%	0.715%
44	15.029	2180	2183	2191	rVB4	190471	346155	10.12%	1.453%
45	15.346	2231	2235	2242	rBV6	100076	212012	6.20%	0.890%
46	15.505	2256	2261	2267	rVB3	246420	464194	13.56%	1.949%

Sum of corrected areas: 23821198

Instrument :
MSVOA_Y
ClientSampleId :
SED-02-0-2

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023435.D
Acq On : 10 Oct 2025 13:40
Operator : SY/MD
Sample : Q3323-02
Misc : 3.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-02-0-2

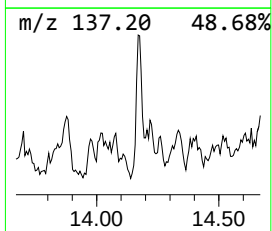
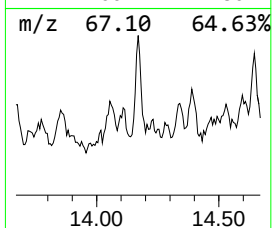
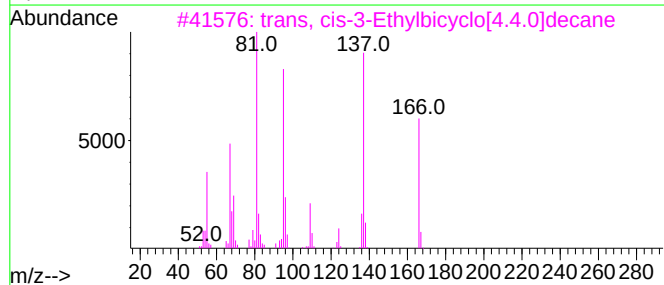
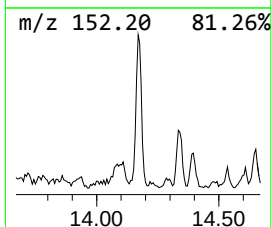
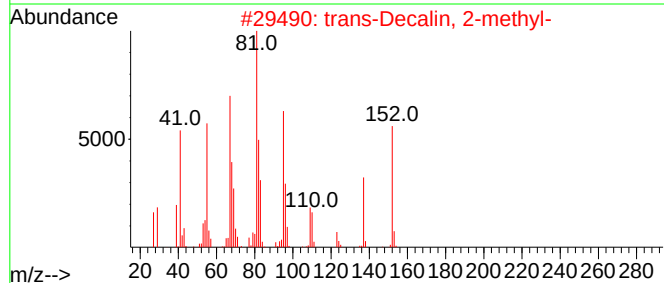
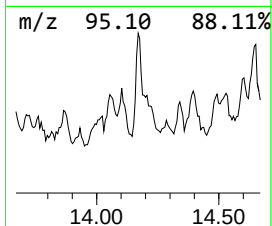
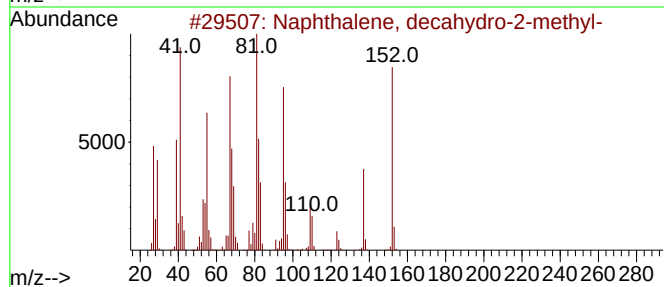
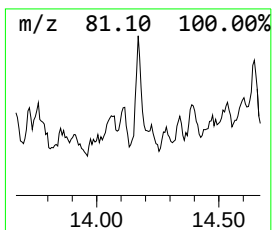
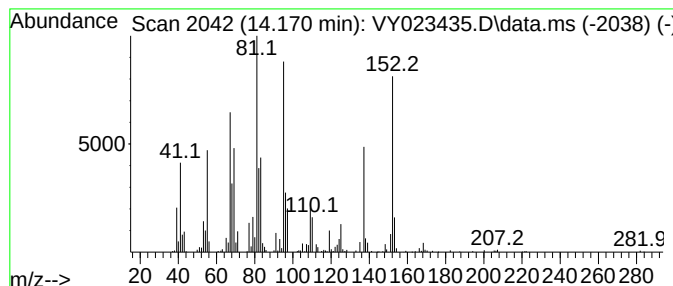
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

Peak Number 1 Naphthalene, decahydro-2-me... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.170	5.32 ug/l	332864	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	95
2			trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	81
3			trans, cis-3-Ethylbicyclo[4.4.0]...	166	C12H22	066660-43-3	64
4			Pulegone	152	C10H16O	000089-82-7	53
5			Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	49



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023435.D
Acq On : 10 Oct 2025 13:40
Operator : SY/MD
Sample : Q3323-02
Misc : 3.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-02-0-2

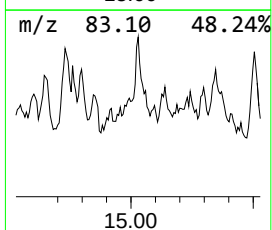
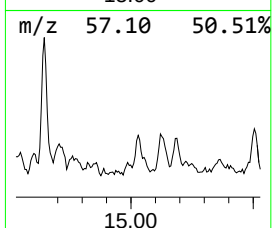
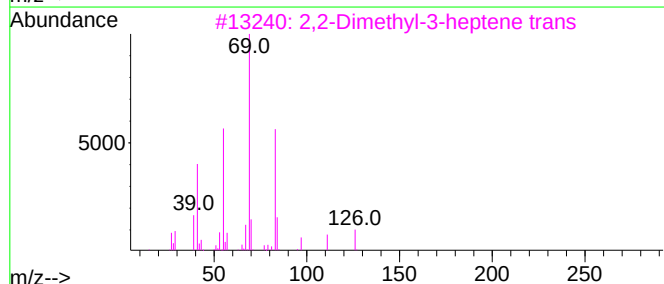
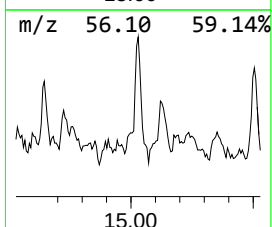
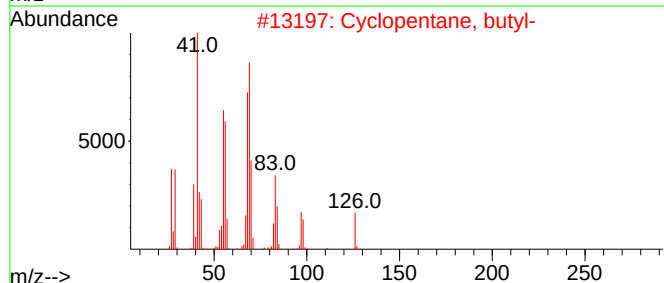
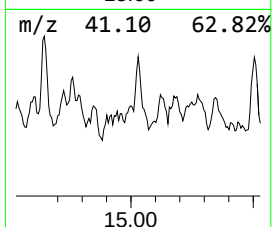
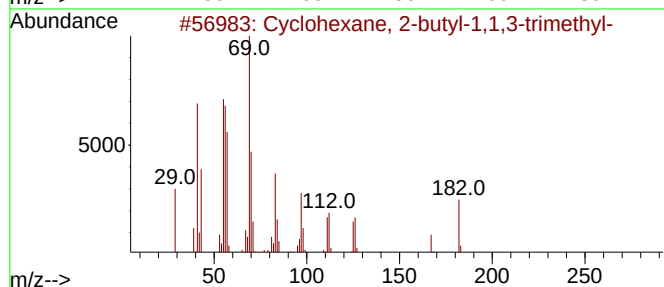
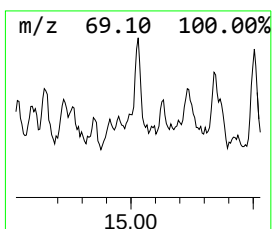
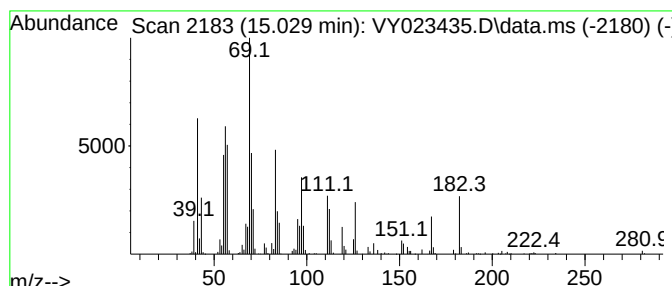
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

Peak Number 3 Cyclohexane, 2-butyl-1,1,3-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.029	5.54 ug/l	346155	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, 2-butyl-1,1,3-trime...	182	C13H26	054676-39-0	94
2			Cyclopentane, butyl-	126	C9H18	002040-95-1	68
3			2,2-Dimethyl-3-heptene trans	126	C9H18	019550-75-5	46
4			Cyclopentane, ethyl-	98	C7H14	001640-89-7	43
5			Cyclooctane	112	C8H16	000292-64-8	41



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023435.D
Acq On : 10 Oct 2025 13:40
Operator : SY/MD
Sample : Q3323-02
Misc : 3.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-02-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.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
Naphthalene, de...	14.170	5.3	ug/l	332864	4	13.347	3126880	50.0
Cyclohexane, 2-...	15.029	5.5	ug/l	346155	4	13.347	3126880	50.0

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-03-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	71.6
Sample Wt/Vol:	8.75 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023436.D	1	10/10/25 14:03	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.91	U	0.91	4.00	ug/Kg
74-87-3	Chloromethane	0.91	U	0.91	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.63	U	0.63	4.00	ug/Kg
74-83-9	Bromomethane	0.85	U	0.85	4.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.97	U	0.97	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.85	U	0.85	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.80	U	0.80	4.00	ug/Kg
67-64-1	Acetone	16.4	J	3.80	20.0	ug/Kg
75-15-0	Carbon Disulfide	3.00	J	0.85	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.00	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	4.00	ug/Kg
75-09-2	Methylene Chloride	3.80	J	2.80	8.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.69	U	0.69	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.64	U	0.64	4.00	ug/Kg
110-82-7	Cyclohexane	0.63	U	0.63	4.00	ug/Kg
78-93-3	2-Butanone	5.20	U	5.20	20.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.77	U	0.77	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.60	U	0.60	4.00	ug/Kg
74-97-5	Bromochloromethane	0.92	U	0.92	4.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.74	U	0.74	4.00	ug/Kg
108-87-2	Methylcyclohexane	0.73	U	0.73	4.00	ug/Kg
71-43-2	Benzene	0.63	U	0.63	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.63	U	0.63	4.00	ug/Kg
79-01-6	Trichloroethene	0.65	U	0.65	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.73	U	0.73	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.62	U	0.62	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	20.0	ug/Kg
108-88-3	Toluene	0.62	U	0.62	4.00	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-03-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	71.6
Sample Wt/Vol:	8.75 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023436.D	1	10/10/25 14:03	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.73	U	0.73	4.00	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	20.0	ug/Kg
124-48-1	Dibromochloromethane	0.69	U	0.69	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.70	U	0.70	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.84	U	0.84	4.00	ug/Kg
108-90-7	Chlorobenzene	0.73	U	0.73	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	4.00	ug/Kg
179601-23-1	m/p-Xylenes	0.99	U	0.99	8.00	ug/Kg
95-47-6	o-Xylene	0.65	U	0.65	4.00	ug/Kg
100-42-5	Styrene	0.57	U	0.57	4.00	ug/Kg
75-25-2	Bromoform	0.69	U	0.69	4.00	ug/Kg
98-82-8	Isopropylbenzene	0.62	U	0.62	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.97	U	0.97	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	4.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.9		63 - 155	118%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0		70 - 134	106%	SPK: 50
2037-26-5	Toluene-d8	51.6		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		17 - 146	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	574000	7.713			
540-36-3	1,4-Difluorobenzene	1110000	8.616			
3114-55-4	Chlorobenzene-d5	1080000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	408000	13.346			



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

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-03-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	71.6
Sample Wt/Vol:	8.75	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023436.D	1	10/10/25 14:03	VY101025

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\VY101025\
 Data File : VY023436.D
 Acq On : 10 Oct 2025 14:03
 Operator : SY/MD
 Sample : Q3323-03
 Misc : 8.75g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-03-0-2

Quant Time: Oct 11 01:57:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

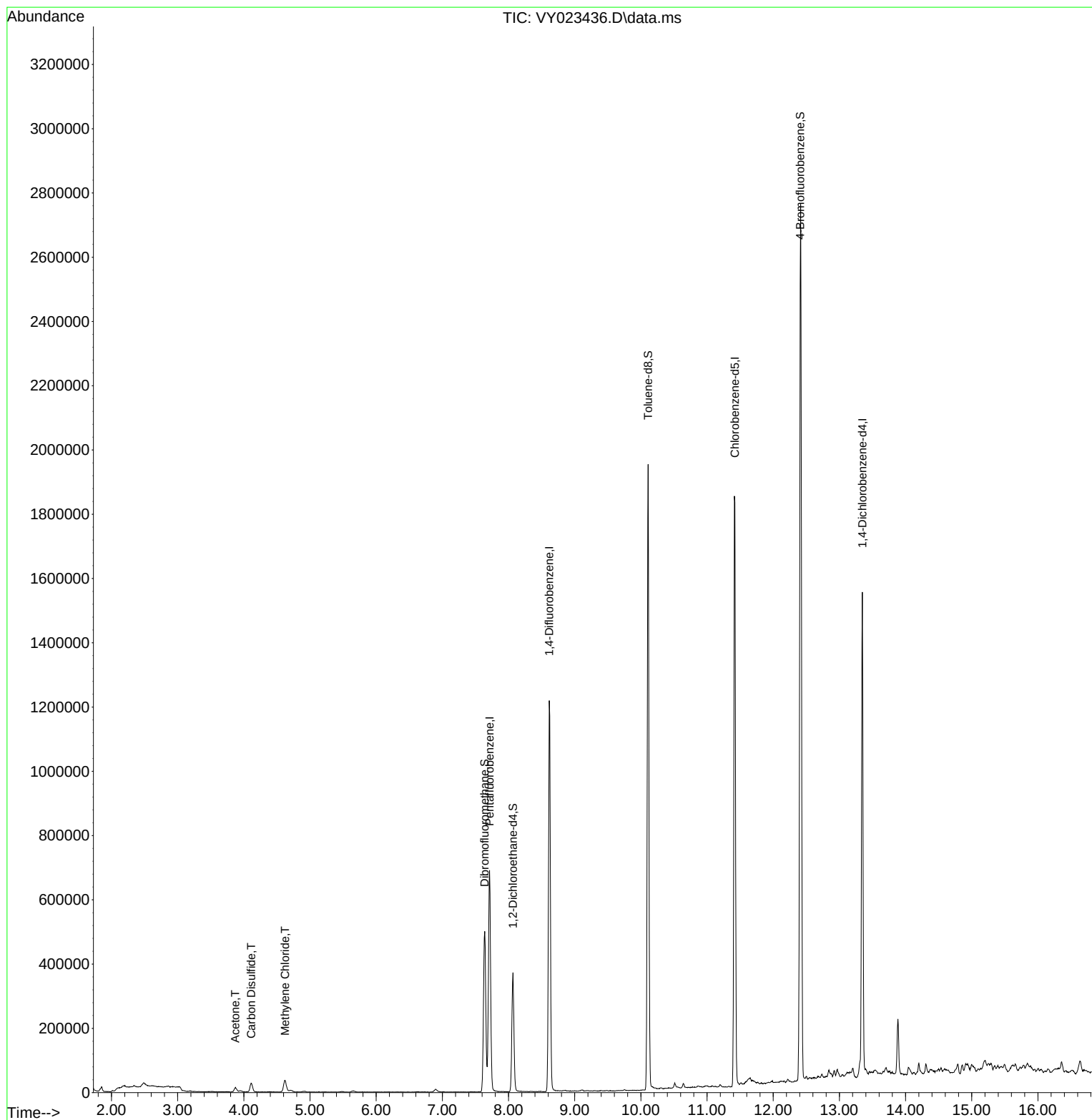
Internal Standards						
1) Pentafluorobenzene	7.713	168	573947	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1114100	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1082536	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	408123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	282871	58.938	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	117.880%
35) Dibromofluoromethane	7.640	113	362612	52.970	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	105.940%
50) Toluene-d8	10.109	98	1315087	51.585	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	103.160%
62) 4-Bromofluorobenzene	12.408	95	435562	51.749	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	103.500%
Target Compounds						
16) Acetone	3.872	43	23425	20.502	ug/l	100
17) Carbon Disulfide	4.110	76	55688	3.800	ug/l	99
20) Methylene Chloride	4.622	84	29428	4.763	ug/l	98

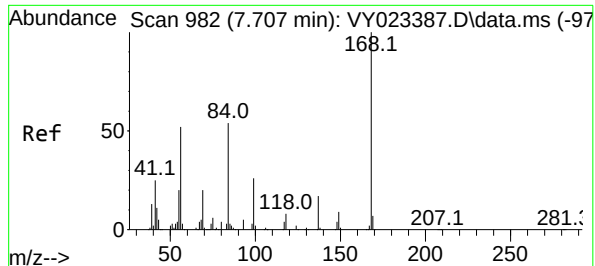
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023436.D
Acq On : 10 Oct 2025 14:03
Operator : SY/MD
Sample : Q3323-03
Misc : 8.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-03-0-2

Quant Time: Oct 11 01:57:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

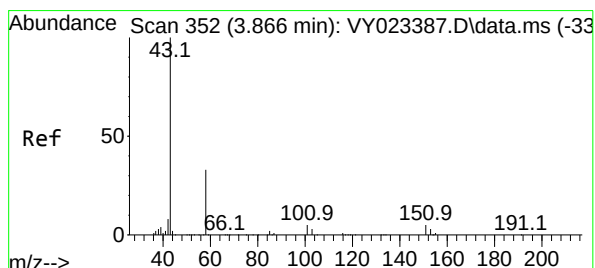
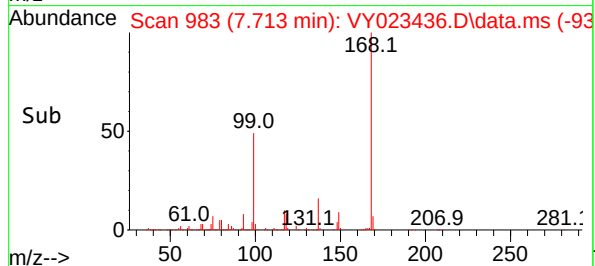
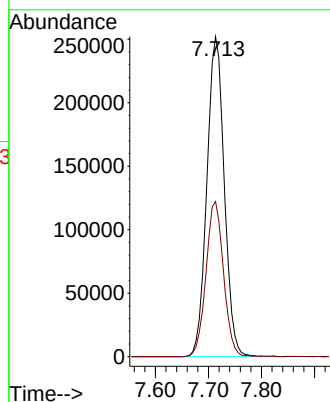
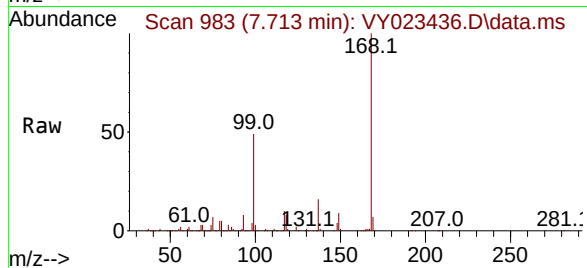




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023436.D
Acq: 10 Oct 2025 14:03

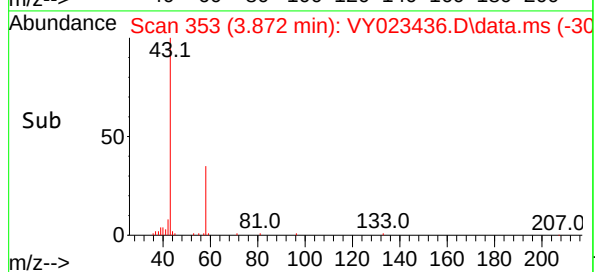
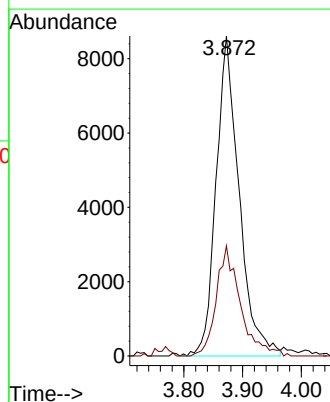
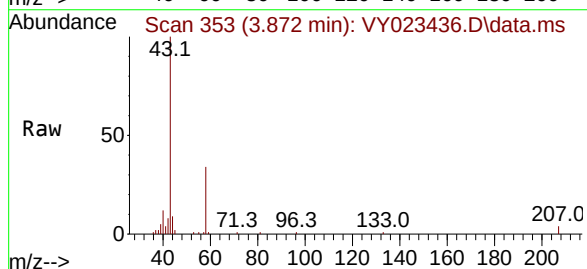
Instrument :
MSVOA_Y
ClientSampleId :
SED-03-0-2

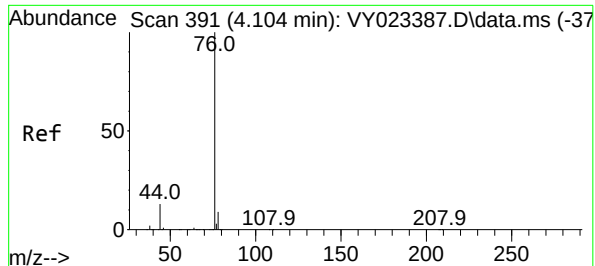
Tgt Ion:168 Resp: 573947
Ion Ratio Lower Upper
168 100
99 48.5 39.7 59.5



#16
Acetone
Concen: 20.502 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023436.D
Acq: 10 Oct 2025 14:03

Tgt Ion: 43 Resp: 23425
Ion Ratio Lower Upper
43 100
58 34.4 27.7 41.5

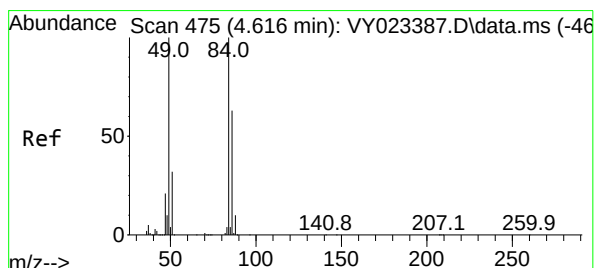
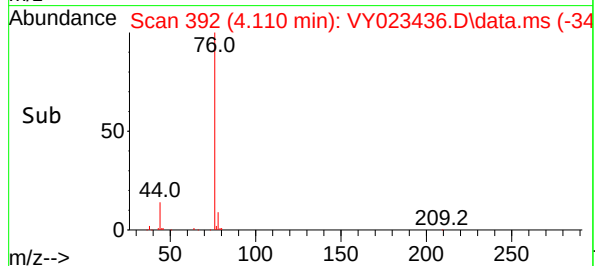
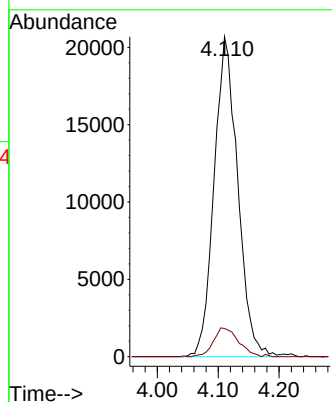
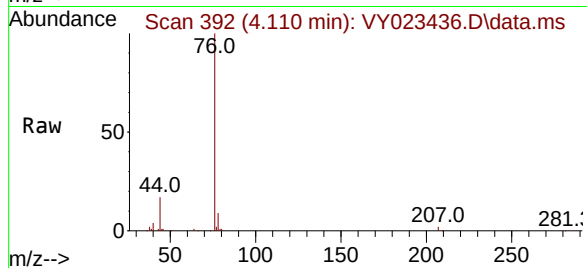




#17
Carbon Disulfide
Concen: 3.800 ug/l
RT: 4.110 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY023436.D
Acq: 10 Oct 2025 14:03

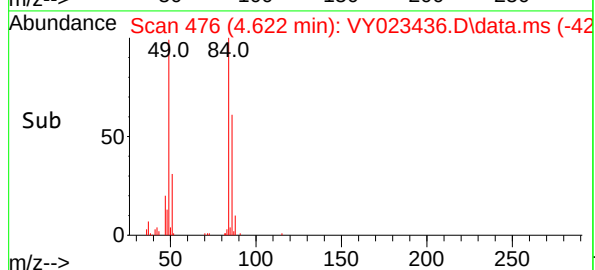
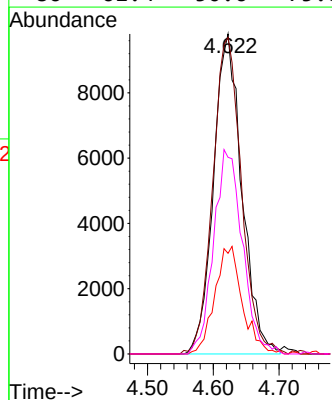
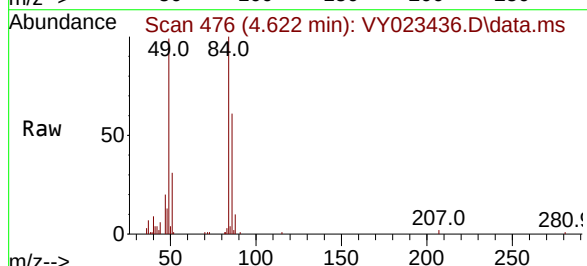
Instrument :
MSVOA_Y
ClientSampleId :
SED-03-0-2

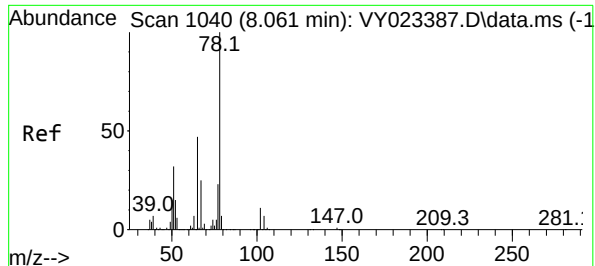
Tgt Ion: 76 Resp: 55688
Ion Ratio Lower Upper
76 100
78 8.8 7.3 10.9



#20
Methylene Chloride
Concen: 4.763 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023436.D
Acq: 10 Oct 2025 14:03

Tgt Ion: 84 Resp: 29428
Ion Ratio Lower Upper
84 100
49 98.9 80.2 120.4
51 31.4 25.9 38.9
86 61.4 50.6 75.8





#33

1,2-Dichloroethane-d4

Concen: 58.938 ug/l

RT: 8.067 min Scan# 11041

Delta R.T. 0.006 min

Lab File: VY023436.D

Acq: 10 Oct 2025 14:03

Instrument :

MSVOA_Y

ClientSampleId :

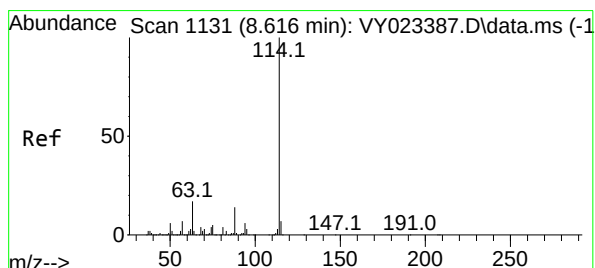
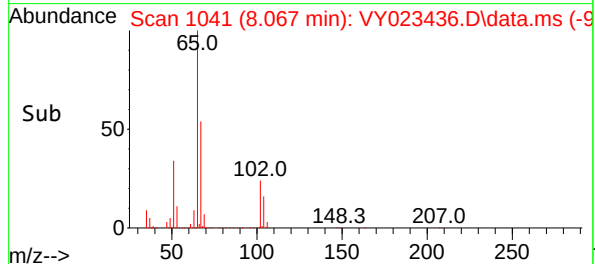
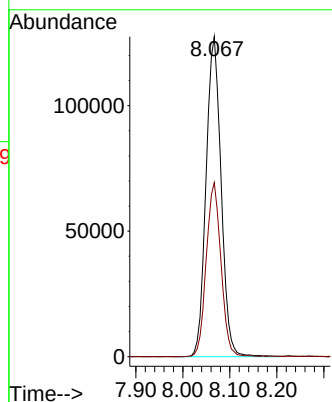
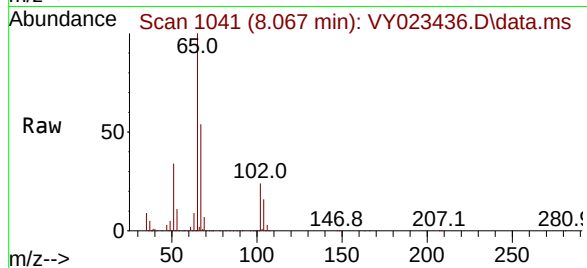
SED-03-0-2

Tgt Ion: 65 Resp: 282871

Ion Ratio Lower Upper

65 100

67 53.2 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023436.D

Acq: 10 Oct 2025 14:03

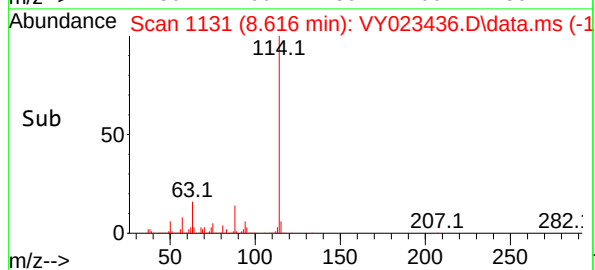
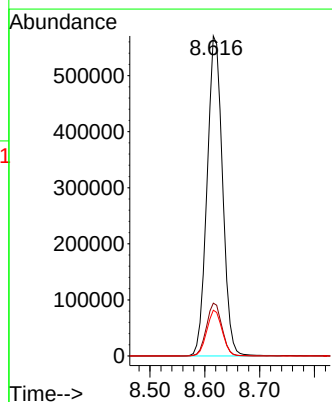
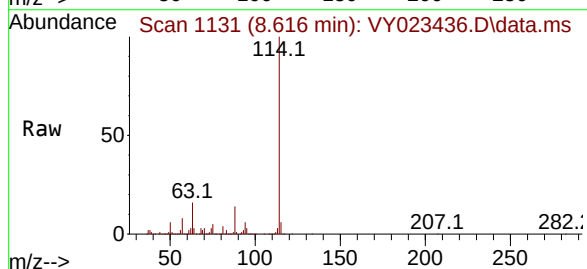
Tgt Ion:114 Resp: 1114100

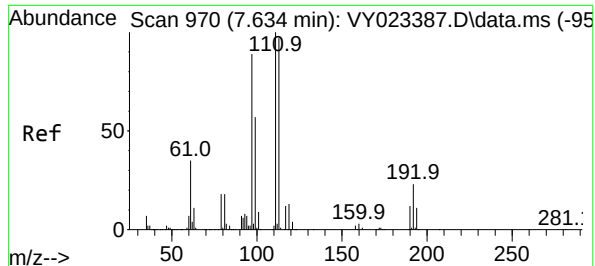
Ion Ratio Lower Upper

114 100

63 16.5 0.0 34.2

88 14.3 0.0 28.4





#35

Dibromofluoromethane

Concen: 52.970 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY023436.D

Acq: 10 Oct 2025 14:03

Instrument :

MSVOA_Y

ClientSampleId :

SED-03-0-2

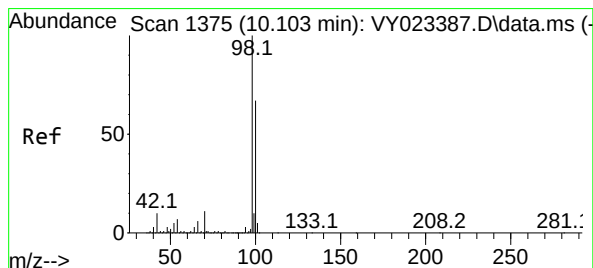
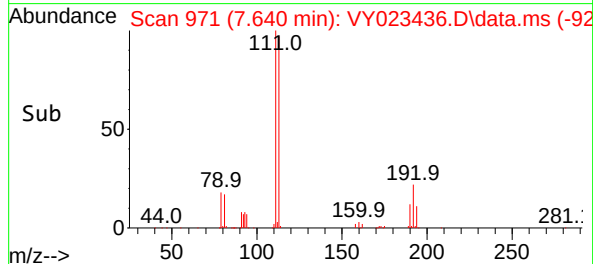
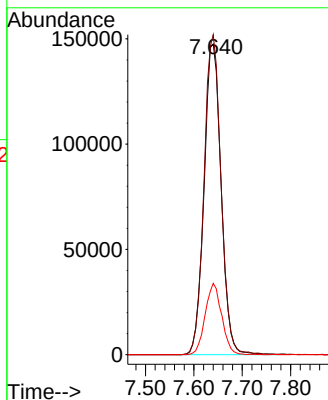
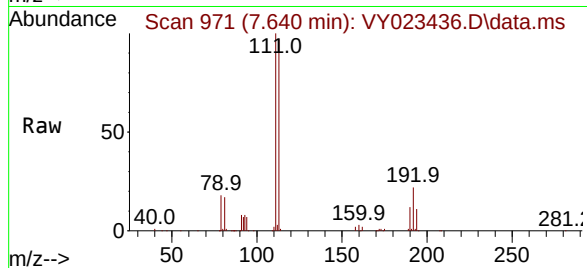
Tgt Ion:113 Resp: 362612

Ion Ratio Lower Upper

113 100

111 102.3 81.8 122.6

192 22.1 18.0 27.0



#50

Toluene-d8

Concen: 51.585 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023436.D

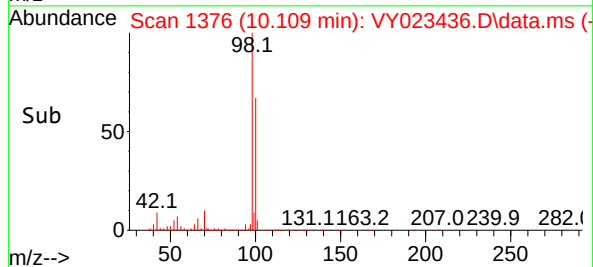
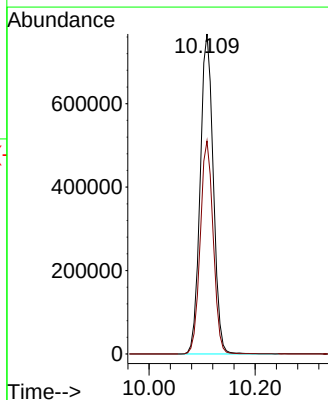
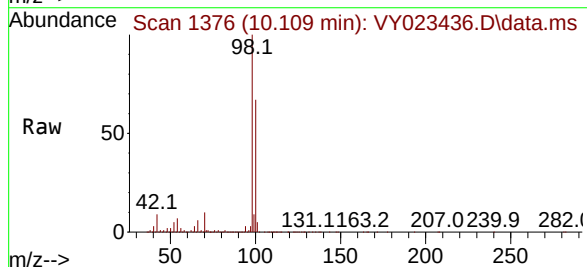
Acq: 10 Oct 2025 14:03

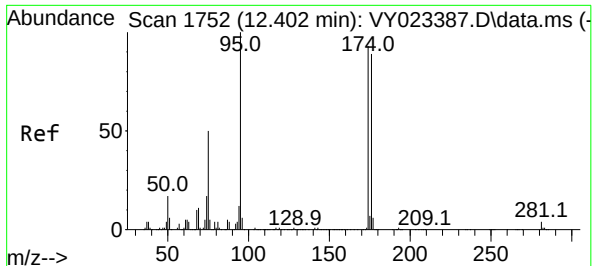
Tgt Ion: 98 Resp: 1315087

Ion Ratio Lower Upper

98 100

100 65.9 53.0 79.4

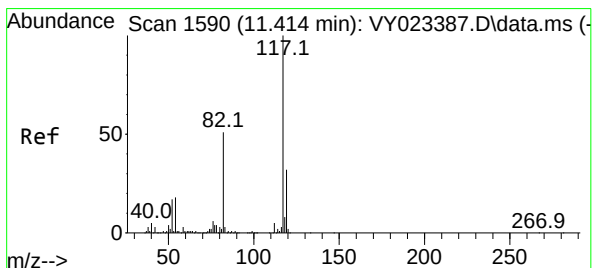
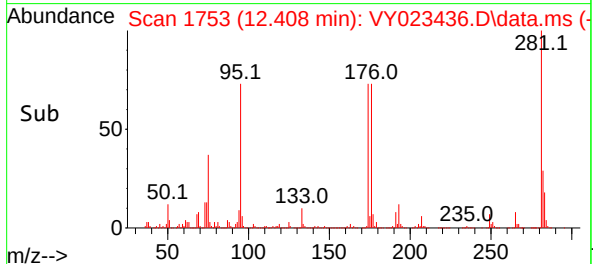
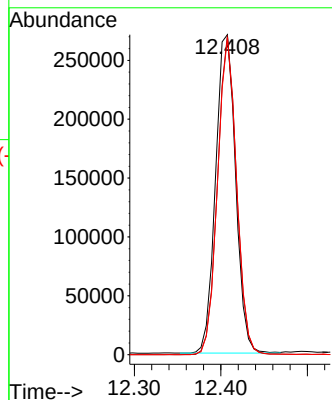
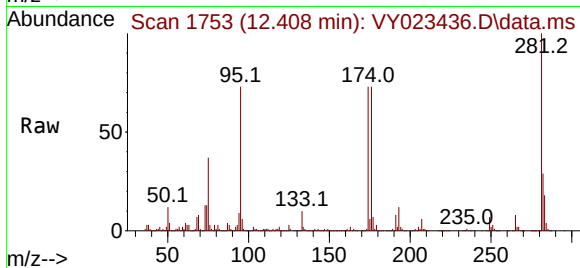




#62
4-Bromofluorobenzene
Concen: 51.749 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023436.D
Acq: 10 Oct 2025 14:03

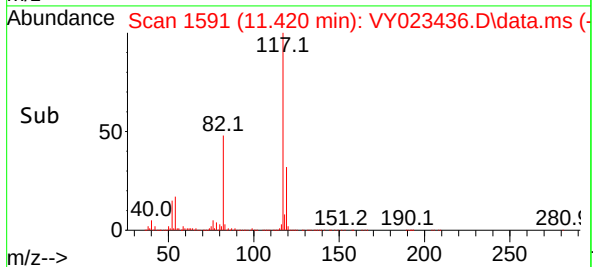
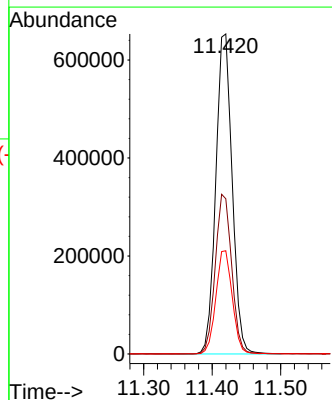
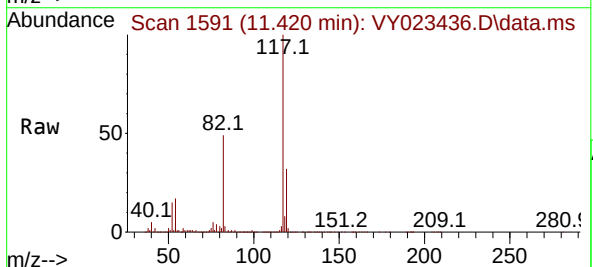
Instrument :
MSVOA_Y
ClientSampleId :
SED-03-0-2

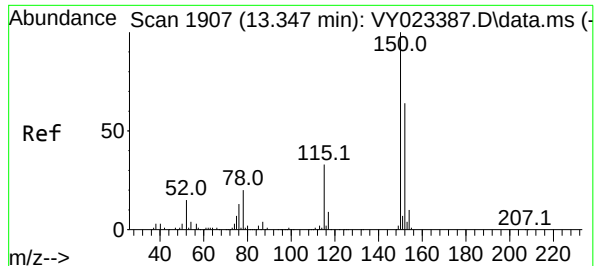
Tgt Ion: 95 Resp: 435562
Ion Ratio Lower Upper
95 100
174 94.7 0.0 192.8
176 94.4 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023436.D
Acq: 10 Oct 2025 14:03

Tgt Ion: 117 Resp: 1082536
Ion Ratio Lower Upper
117 100
82 48.5 41.0 61.4
119 32.2 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 19

Delta R.T. -0.000 min

Lab File: VY023436.D

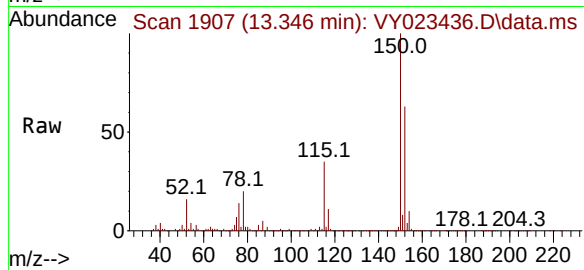
Acq: 10 Oct 2025 14:03

Instrument :

MSVOA_Y

ClientSampleId :

SED-03-0-2



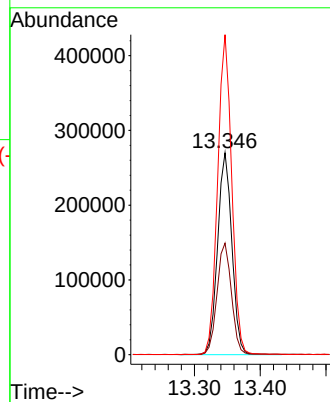
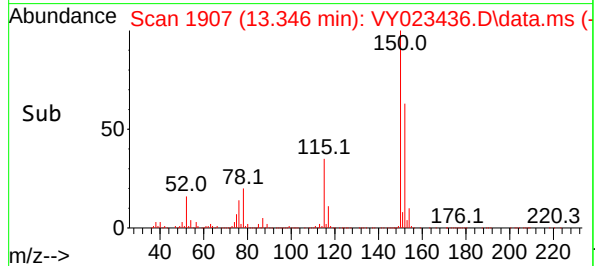
Tgt Ion:152 Resp: 408123

Ion Ratio Lower Upper

152 100

115 55.3 27.1 81.2

150 156.2 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023436.D
 Acq On : 10 Oct 2025 14:03
 Operator : SY/MD
 Sample : Q3323-03
 Misc : 8.75g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-03-0-2

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\82Y100725S.M

Title : SW846 8260

Signal : TIC: VY023436.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.110	382	392	402	rBV	27218	74036	1.44%	0.360%
2	4.622	466	476	486	rBV2	36169	113001	2.20%	0.550%
3	7.640	960	971	977	rBV	499467	1217498	23.67%	5.922%
4	7.713	977	983	1000	rVB	688160	1560095	30.32%	7.588%
5	8.067	1032	1041	1053	rBV	370941	814460	15.83%	3.961%
6	8.616	1122	1131	1144	rBV	1217317	2393753	46.53%	11.643%
7	10.109	1368	1376	1386	rBV	1947551	3353353	65.18%	16.310%
8	11.414	1583	1590	1602	rBV	1838575	3094715	60.15%	15.052%
9	12.414	1746	1754	1764	rBV2	2727142	5144636	100.00%	25.022%
10	13.346	1897	1907	1914	rBV	1499268	2332729	45.34%	11.346%
11	13.883	1990	1995	2004	rVB2	171168	291968	5.68%	1.420%
12	14.041	2018	2021	2031	rBV9	22639	58240	1.13%	0.283%
13	14.200	2044	2047	2056	rVB2	31519	54019	1.05%	0.263%
14	16.358	2398	2401	2408	rVB9	32646	57604	1.12%	0.280%

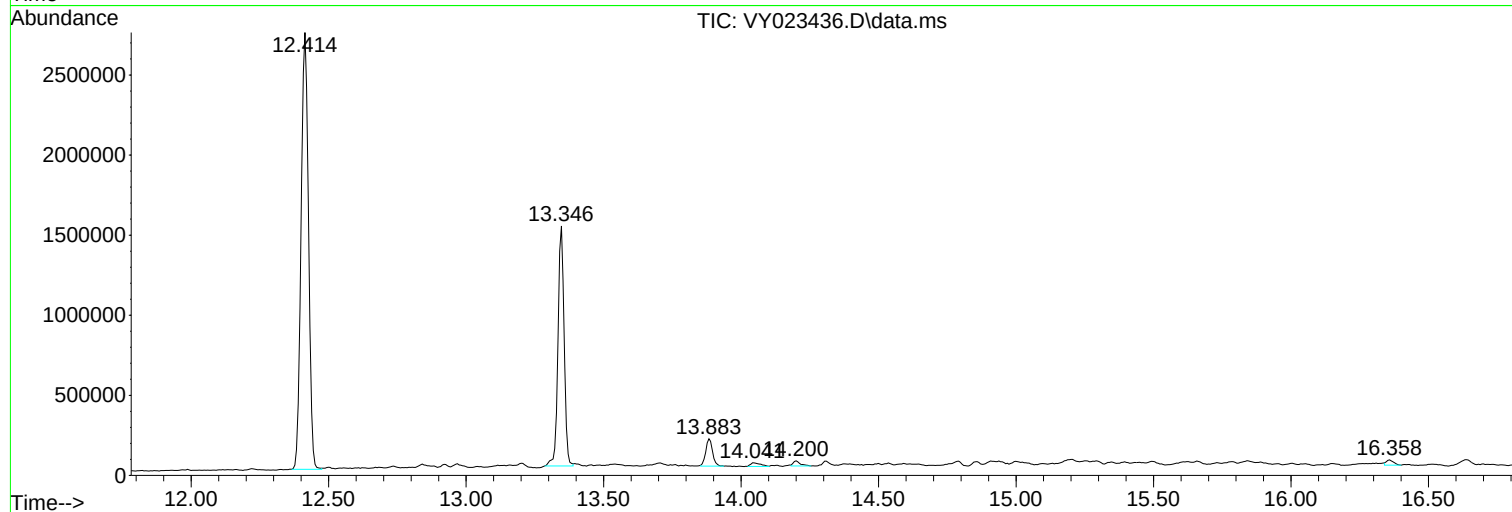
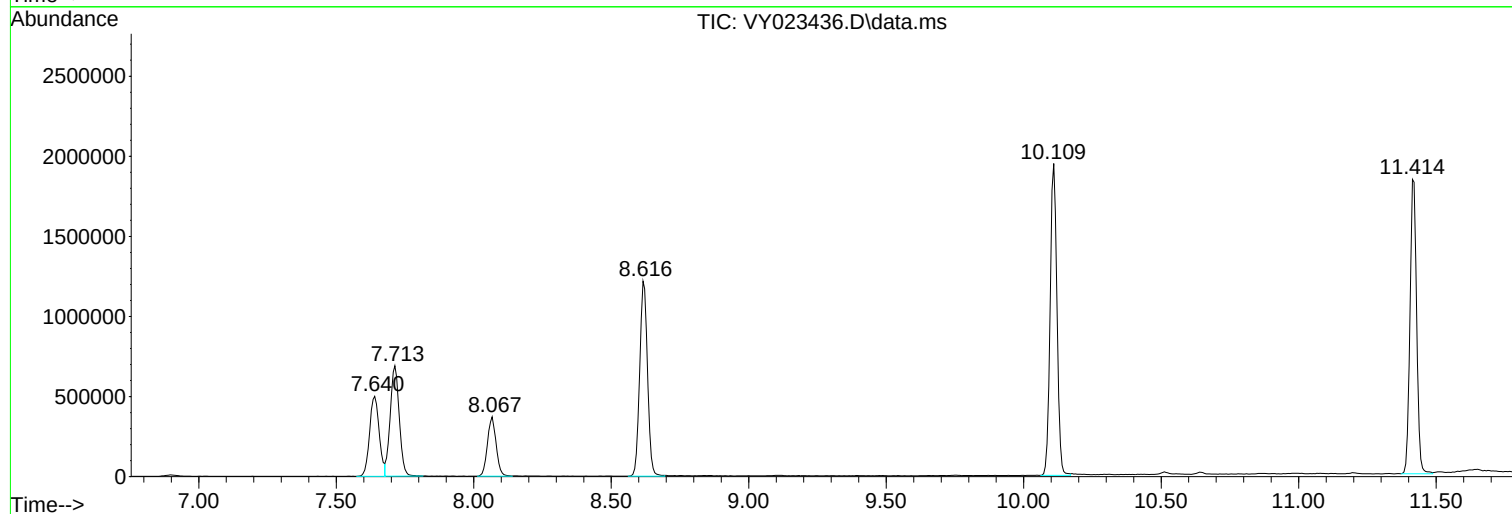
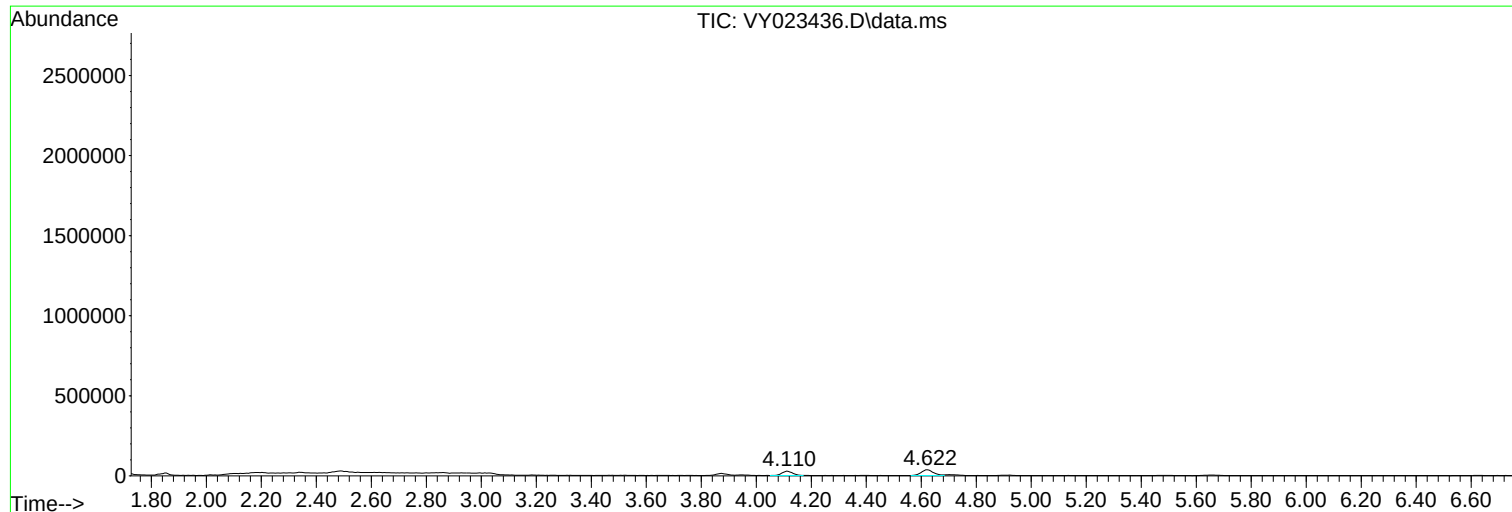
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023436.D
Acq On : 10 Oct 2025 14:03
Operator : SY/MD
Sample : Q3323-03
Misc : 8.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-03-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023436.D
Acq On : 10 Oct 2025 14:03
Operator : SY/MD
Sample : Q3323-03
Misc : 8.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-03-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.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\VY101025\
Data File : VY023436.D
Acq On : 10 Oct 2025 14:03
Operator : SY/MD
Sample : Q3323-03
Misc : 8.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-03-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.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:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace		Date Received:	10/09/25
Client Sample ID:	SED-04-0-2		SDG No.:	Q3323
Lab Sample ID:	Q3323-04		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	70.2
Sample Wt/Vol:	5.83	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023437.D	1	10/10/25 14:27	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	6.10	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	6.10	ug/Kg
75-01-4	Vinyl Chloride	0.97	U	0.97	6.10	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.10	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	6.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	6.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	6.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	6.10	ug/Kg
67-64-1	Acetone	14.2	J	5.80	30.5	ug/Kg
75-15-0	Carbon Disulfide	3.70	J	1.30	6.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.89	U	0.89	6.10	ug/Kg
79-20-9	Methyl Acetate	1.90	U	1.90	6.10	ug/Kg
75-09-2	Methylene Chloride	4.30	U	4.30	12.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.98	U	0.98	6.10	ug/Kg
110-82-7	Cyclohexane	0.97	U	0.97	6.10	ug/Kg
78-93-3	2-Butanone	8.00	U	8.00	30.5	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	6.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.92	U	0.92	6.10	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	6.10	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	6.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	6.10	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.10	ug/Kg
71-43-2	Benzene	0.97	U	0.97	6.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.97	U	0.97	6.10	ug/Kg
79-01-6	Trichloroethene	0.99	U	0.99	6.10	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	6.10	ug/Kg
75-27-4	Bromodichloromethane	0.95	U	0.95	6.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	30.5	ug/Kg
108-88-3	Toluene	0.95	U	0.95	6.10	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-04-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	70.2
Sample Wt/Vol:	5.83 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023437.D	1	10/10/25 14:27	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.79	U	0.79	6.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.76	U	0.76	6.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.10	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	30.5	ug/Kg
124-48-1	Dibromochloromethane	1.10	U	1.10	6.10	ug/Kg
106-93-4	1,2-Dibromoethane	1.10	U	1.10	6.10	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	6.10	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	6.10	ug/Kg
100-41-4	Ethyl Benzene	0.82	U	0.82	6.10	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	12.2	ug/Kg
95-47-6	o-Xylene	1.00	U	1.00	6.10	ug/Kg
100-42-5	Styrene	0.87	U	0.87	6.10	ug/Kg
75-25-2	Bromoform	1.10	U	1.10	6.10	ug/Kg
98-82-8	Isopropylbenzene	0.95	U	0.95	6.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	1.50	6.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	2.10	6.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	6.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.80	6.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.20	U	2.20	6.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.60	U	3.60	6.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.90	U	3.90	6.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.2		63 - 155	112%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	50.9		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		17 - 146	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	548000	7.713			
540-36-3	1,4-Difluorobenzene	1010000	8.616			
3114-55-4	Chlorobenzene-d5	894000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	300000	13.346			

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-04-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	70.2
Sample Wt/Vol:	5.83 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023437.D	1	10/10/25 14:27	VY101025

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\VY101025\
 Data File : VY023437.D
 Acq On : 10 Oct 2025 14:27
 Operator : SY/MD
 Sample : Q3323-04
 Misc : 5.83g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-04-0-2

Quant Time: Oct 11 01:58:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

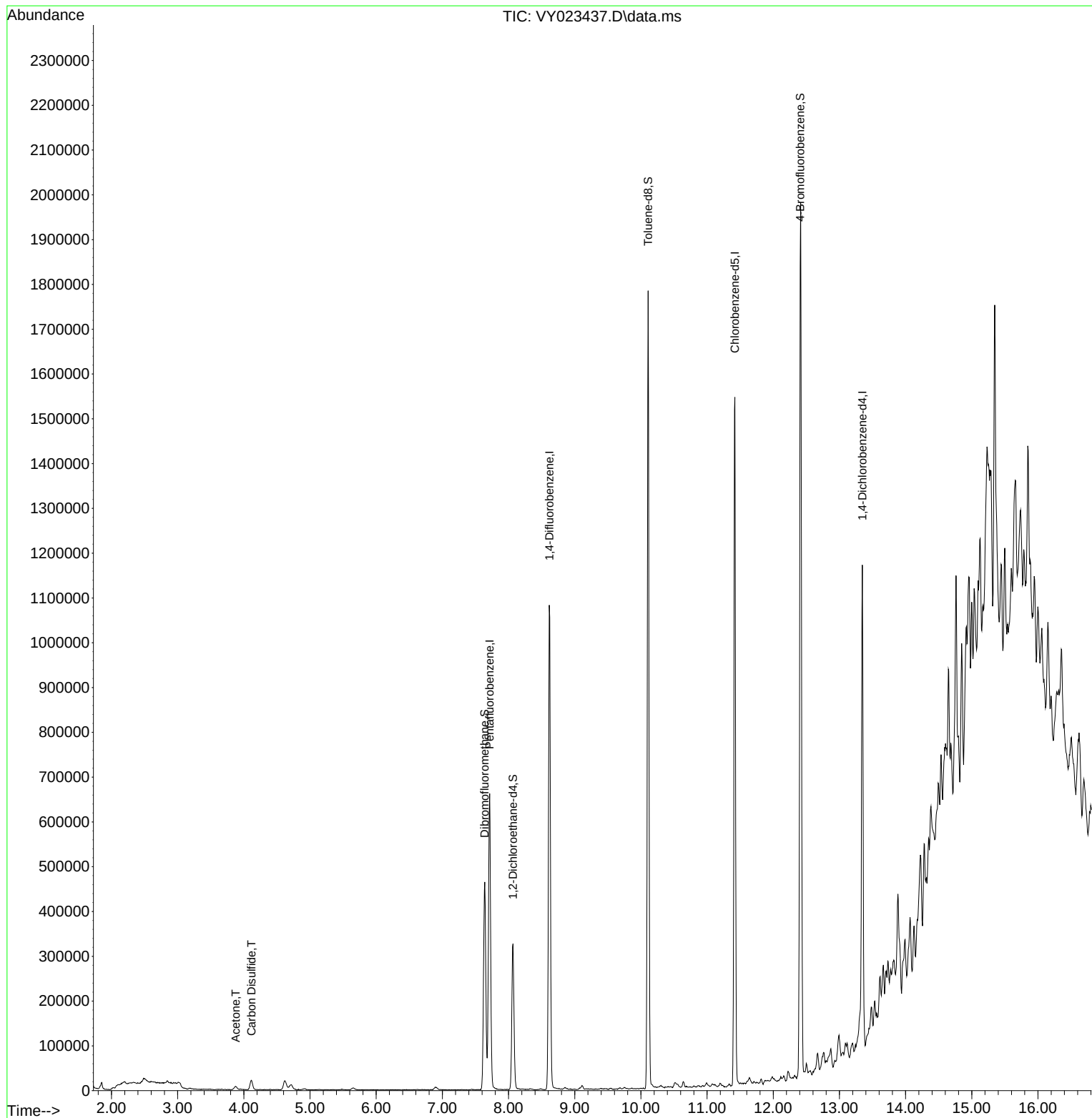
Internal Standards						
1) Pentafluorobenzene	7.713	168	547861	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1010886	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	894472	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	300018	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	257661	56.242	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 112.480%	
35) Dibromofluoromethane	7.640	113	332986	53.609	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.220%	
50) Toluene-d8	10.109	98	1176785	50.873	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.740%	
62) 4-Bromofluorobenzene	12.408	95	335891	43.982	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 87.960%	
Target Compounds						Qvalue
16) Acetone	3.879	43	12695	11.640	ug/l	92
17) Carbon Disulfide	4.116	76	42223	3.019	ug/l	97

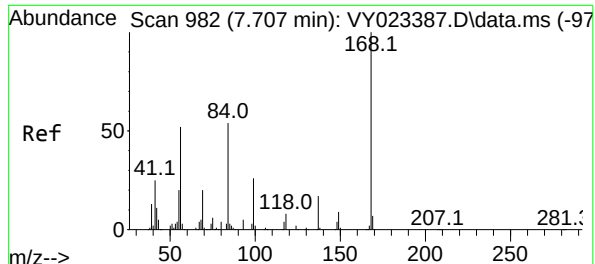
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023437.D
Acq On : 10 Oct 2025 14:27
Operator : SY/MD
Sample : Q3323-04
Misc : 5.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-04-0-2

Quant Time: Oct 11 01:58:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

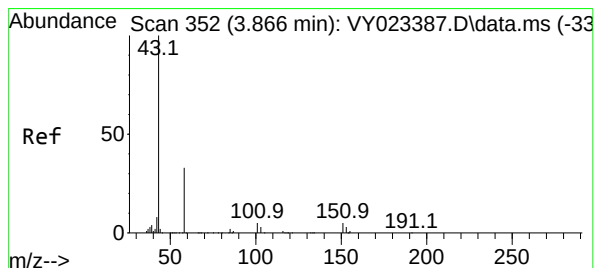
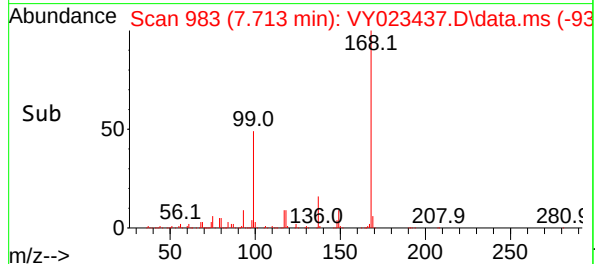
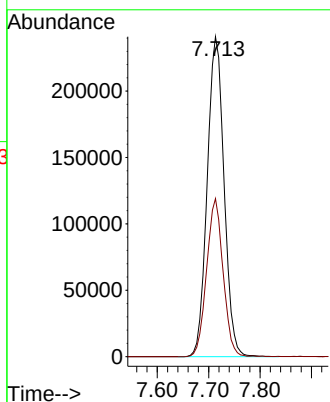
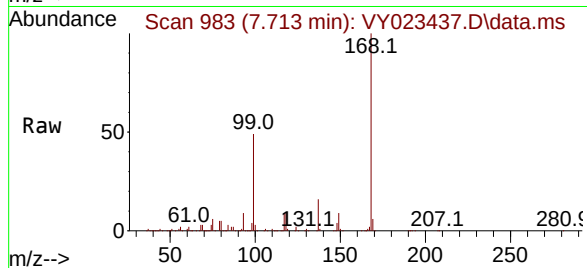




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023437.D
Acq: 10 Oct 2025 14:27

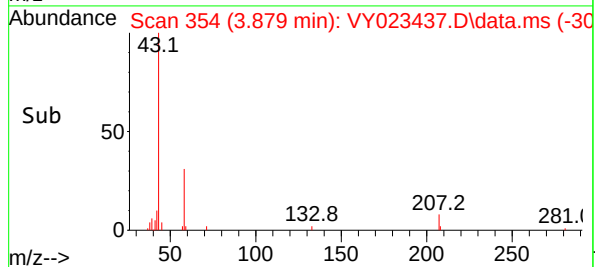
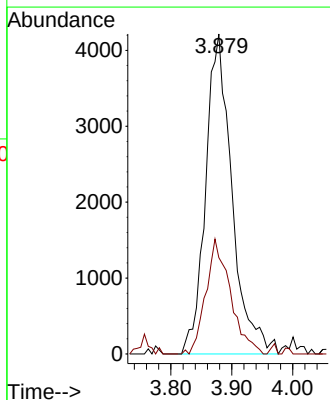
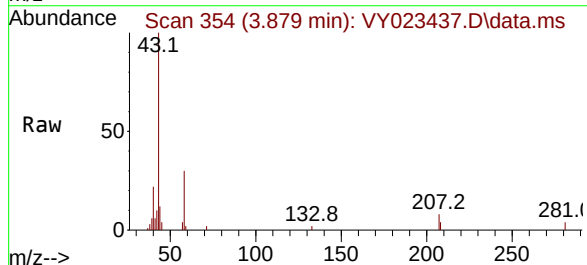
Instrument :
MSVOA_Y
ClientSampleId :
SED-04-0-2

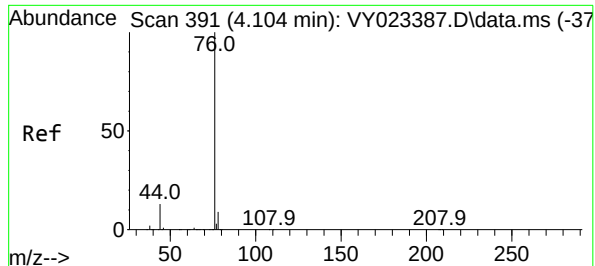
Tgt Ion:168 Resp: 547861
Ion Ratio Lower Upper
168 100
99 49.4 39.7 59.5



#16
Acetone
Concen: 11.640 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.012 min
Lab File: VY023437.D
Acq: 10 Oct 2025 14:27

Tgt Ion: 43 Resp: 12695
Ion Ratio Lower Upper
43 100
58 30.1 27.7 41.5





#17

Carbon Disulfide

Concen: 3.019 ug/l

RT: 4.116 min Scan# 391

Delta R.T. 0.012 min

Lab File: VY023437.D

Acq: 10 Oct 2025 14:27

Instrument :

MSVOA_Y

ClientSampleId :

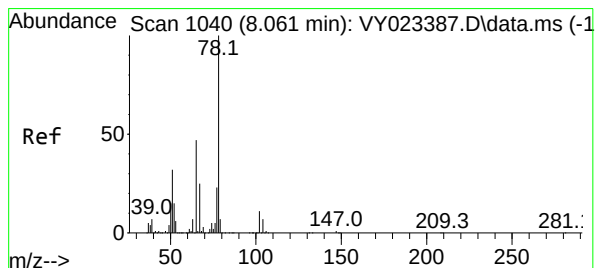
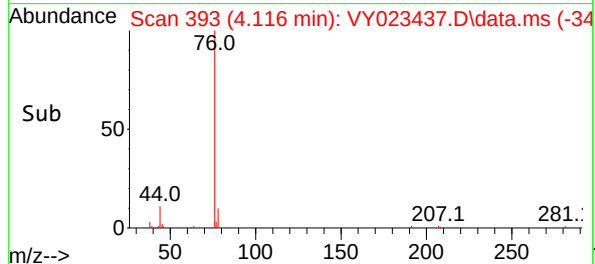
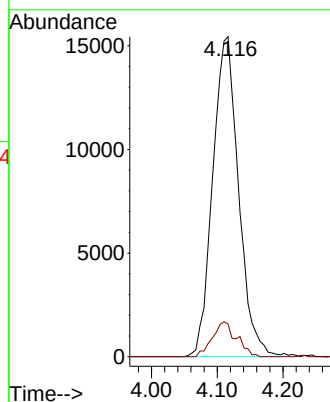
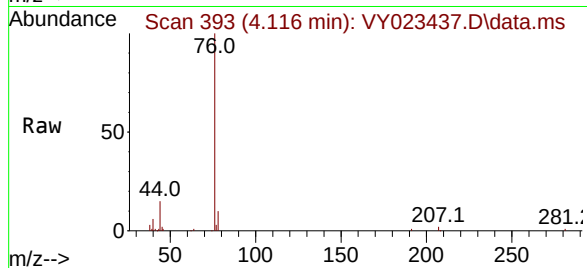
SED-04-0-2

Tgt Ion: 76 Resp: 42223

Ion Ratio Lower Upper

76 100

78 10.2 7.3 10.9



#33

1,2-Dichloroethane-d4

Concen: 56.242 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY023437.D

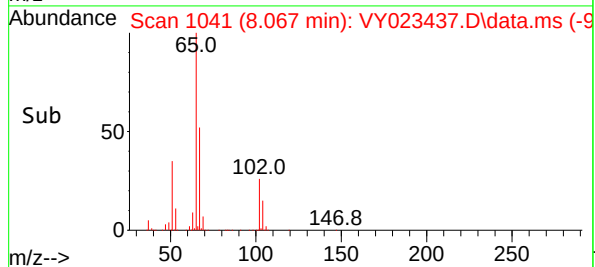
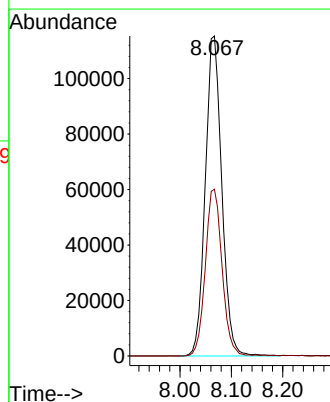
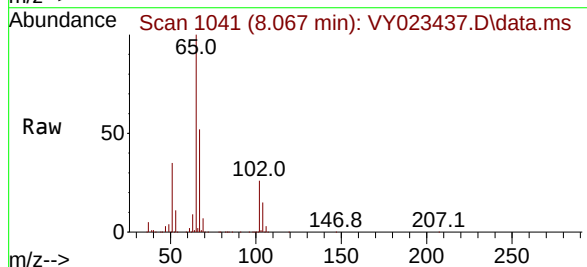
Acq: 10 Oct 2025 14:27

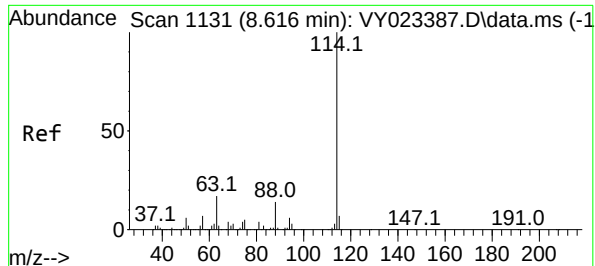
Tgt Ion: 65 Resp: 257661

Ion Ratio Lower Upper

65 100

67 52.9 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023437.D

Acq: 10 Oct 2025 14:27

Instrument :

MSVOA_Y

ClientSampleId :

SED-04-0-2

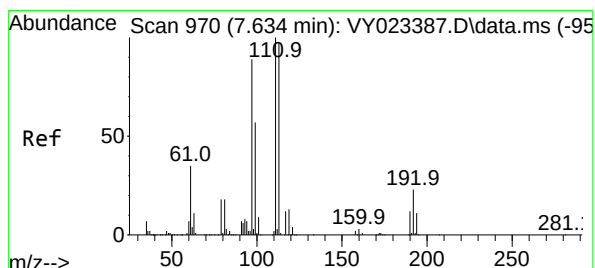
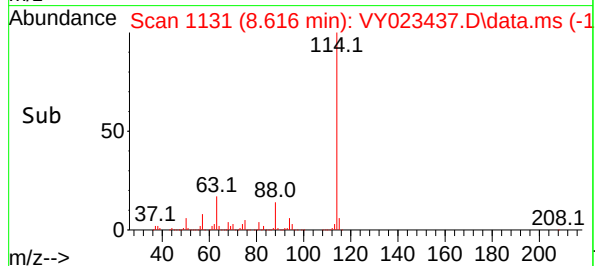
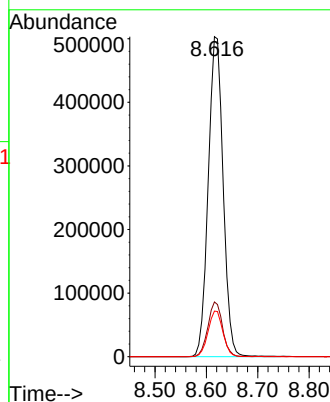
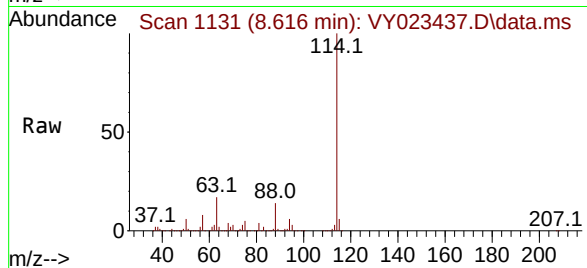
Tgt Ion:114 Resp: 1010886

Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.2

88 14.2 0.0 28.4



#35

Dibromofluoromethane

Concen: 53.609 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY023437.D

Acq: 10 Oct 2025 14:27

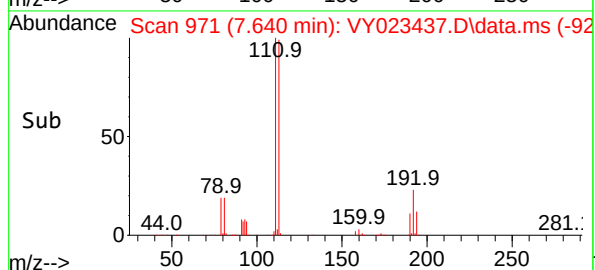
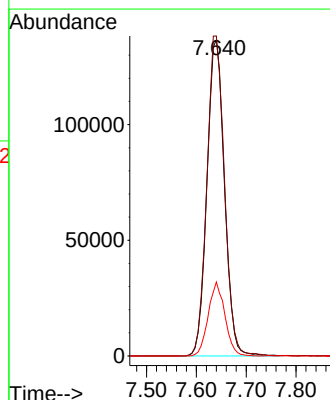
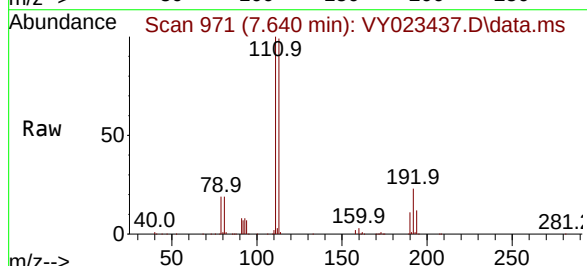
Tgt Ion:113 Resp: 332986

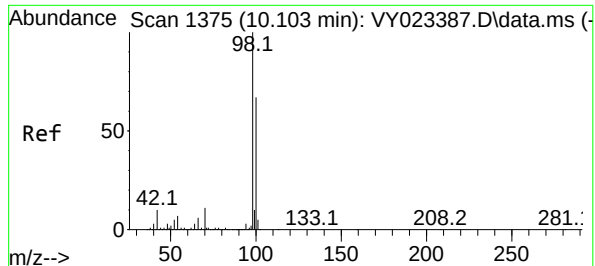
Ion Ratio Lower Upper

113 100

111 102.2 81.8 122.6

192 22.3 18.0 27.0





#50

Toluene-d8

Concen: 50.873 ug/l

RT: 10.109 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023437.D

Acq: 10 Oct 2025 14:27

Instrument :

MSVOA_Y

ClientSampleId :

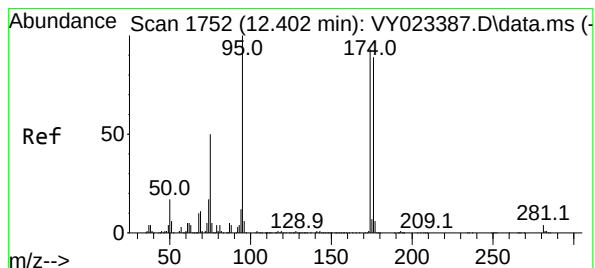
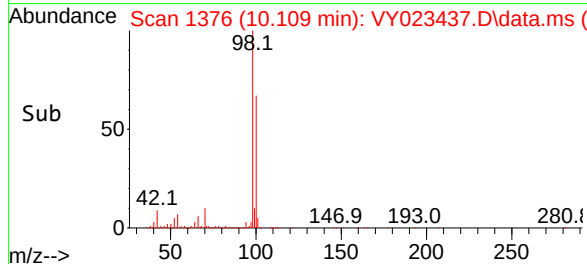
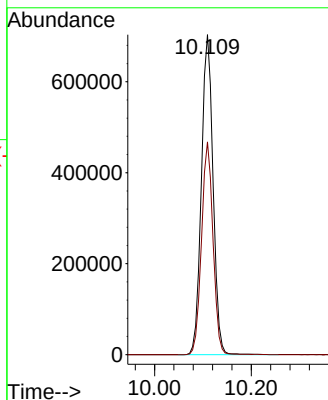
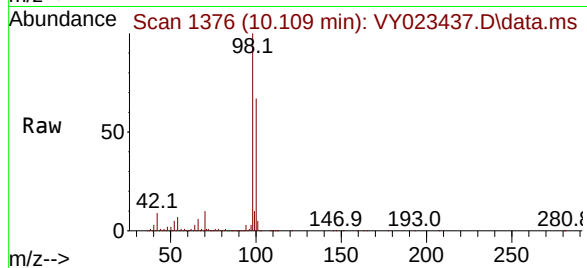
SED-04-0-2

Tgt Ion: 98 Resp: 1176785

Ion Ratio Lower Upper

98 100

100 65.6 53.0 79.4



#62

4-Bromofluorobenzene

Concen: 43.982 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY023437.D

Acq: 10 Oct 2025 14:27

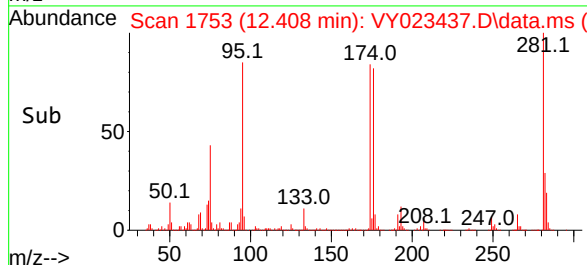
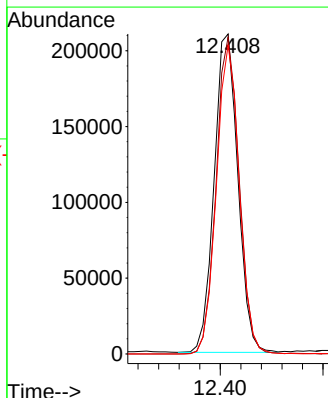
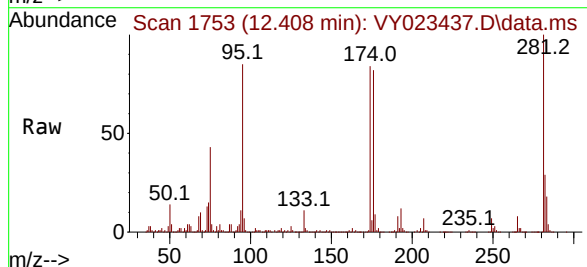
Tgt Ion: 95 Resp: 335891

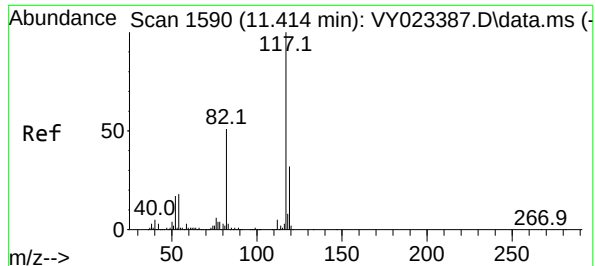
Ion Ratio Lower Upper

95 100

174 96.5 0.0 192.8

176 93.8 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. 0.006 min

Lab File: VY023437.D

Acq: 10 Oct 2025 14:27

Instrument :

MSVOA_Y

ClientSampleId :

SED-04-0-2

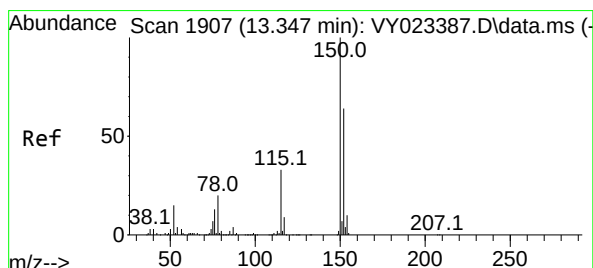
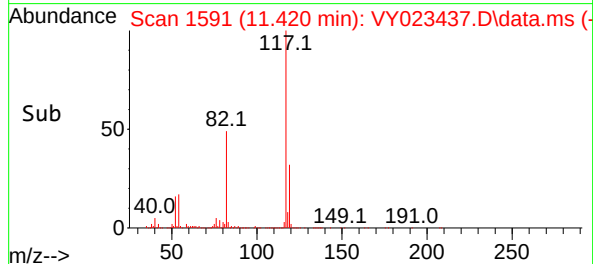
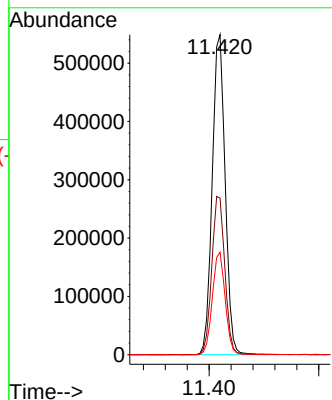
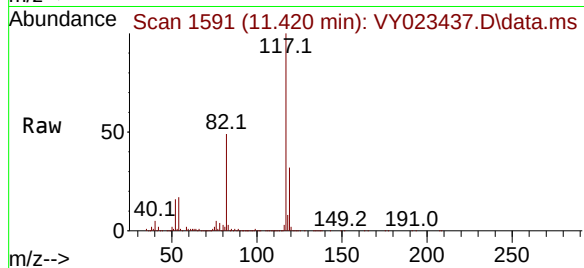
Tgt Ion:117 Resp: 894472

Ion Ratio Lower Upper

117 100

82 48.8 41.0 61.4

119 32.0 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023437.D

Acq: 10 Oct 2025 14:27

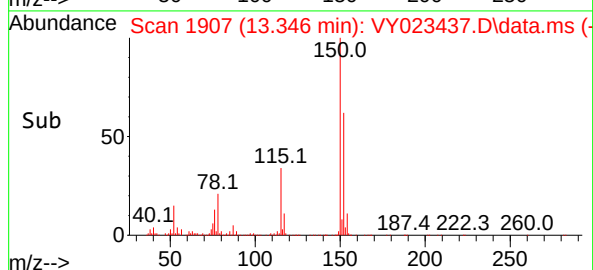
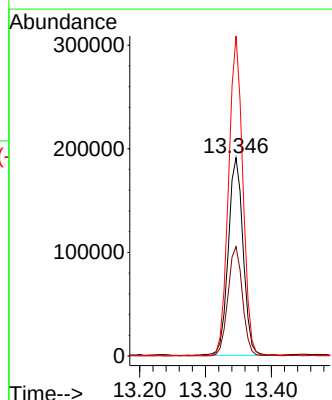
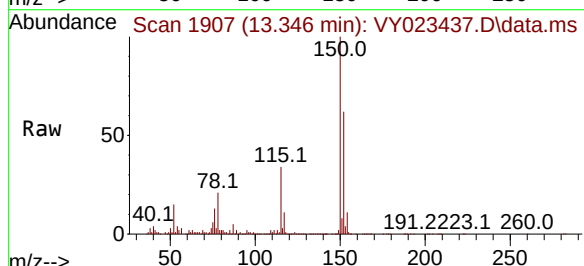
Tgt Ion:152 Resp: 300018

Ion Ratio Lower Upper

152 100

115 53.9 27.1 81.2

150 154.8 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023437.D
 Acq On : 10 Oct 2025 14:27
 Operator : SY/MD
 Sample : Q3323-04
 Misc : 5.83g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-04-0-2

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\82Y100725S.M
 Title : SW846 8260

Signal : TIC: VY023437.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.110	383	392	402	rBV2	20933	57991	1.57%	0.271%
2	4.622	465	476	484	rBV3	20048	69157	1.87%	0.323%
3	4.714	485	491	504	rVB5	11082	38087	1.03%	0.178%
4	7.640	961	971	977	rBV	463739	1119294	30.34%	5.228%
5	7.713	977	983	1001	rVB	660586	1495791	40.54%	6.986%
6	8.067	1031	1041	1053	rBV	325621	735409	19.93%	3.435%
7	8.616	1119	1131	1150	rBV	1081802	2186979	59.28%	10.214%
8	10.109	1368	1376	1392	rBV	1781537	3005436	81.46%	14.037%
9	11.420	1583	1591	1602	rBV	1537239	2542122	68.91%	11.873%
10	12.225	1718	1723	1731	rBV5	20625	50645	1.37%	0.237%
11	12.414	1746	1754	1762	rBV2	1950708	3689299	100.00%	17.231%
12	12.670	1791	1796	1801	rVB5	36859	69818	1.89%	0.326%
13	12.761	1804	1811	1815	rBV6	31986	80856	2.19%	0.378%
14	12.993	1842	1849	1854	rBV8	57276	138520	3.75%	0.647%
15	13.346	1897	1907	1914	rVB	1073190	1854054	50.25%	8.659%
16	13.481	1926	1929	1933	rVB4	41748	61903	1.68%	0.289%
17	13.535	1934	1938	1941	rBV4	54108	91961	2.49%	0.429%
18	13.615	1946	1951	1954	rBV3	89739	171189	4.64%	0.800%
19	13.883	1991	1995	2004	rVB6	222445	550419	14.92%	2.571%
20	13.993	2004	2013	2017	rBV6	121094	351963	9.54%	1.644%
21	14.127	2031	2035	2039	rBV5	99356	175381	4.75%	0.819%
22	14.279	2056	2060	2064	rBV3	183645	350737	9.51%	1.638%
23	14.761	2136	2139	2144	rVB	360286	464573	12.59%	2.170%
24	14.846	2149	2153	2158	rBV6	309568	543218	14.72%	2.537%
25	15.346	2231	2235	2246	rVB2	708165	1516505	41.11%	7.083%

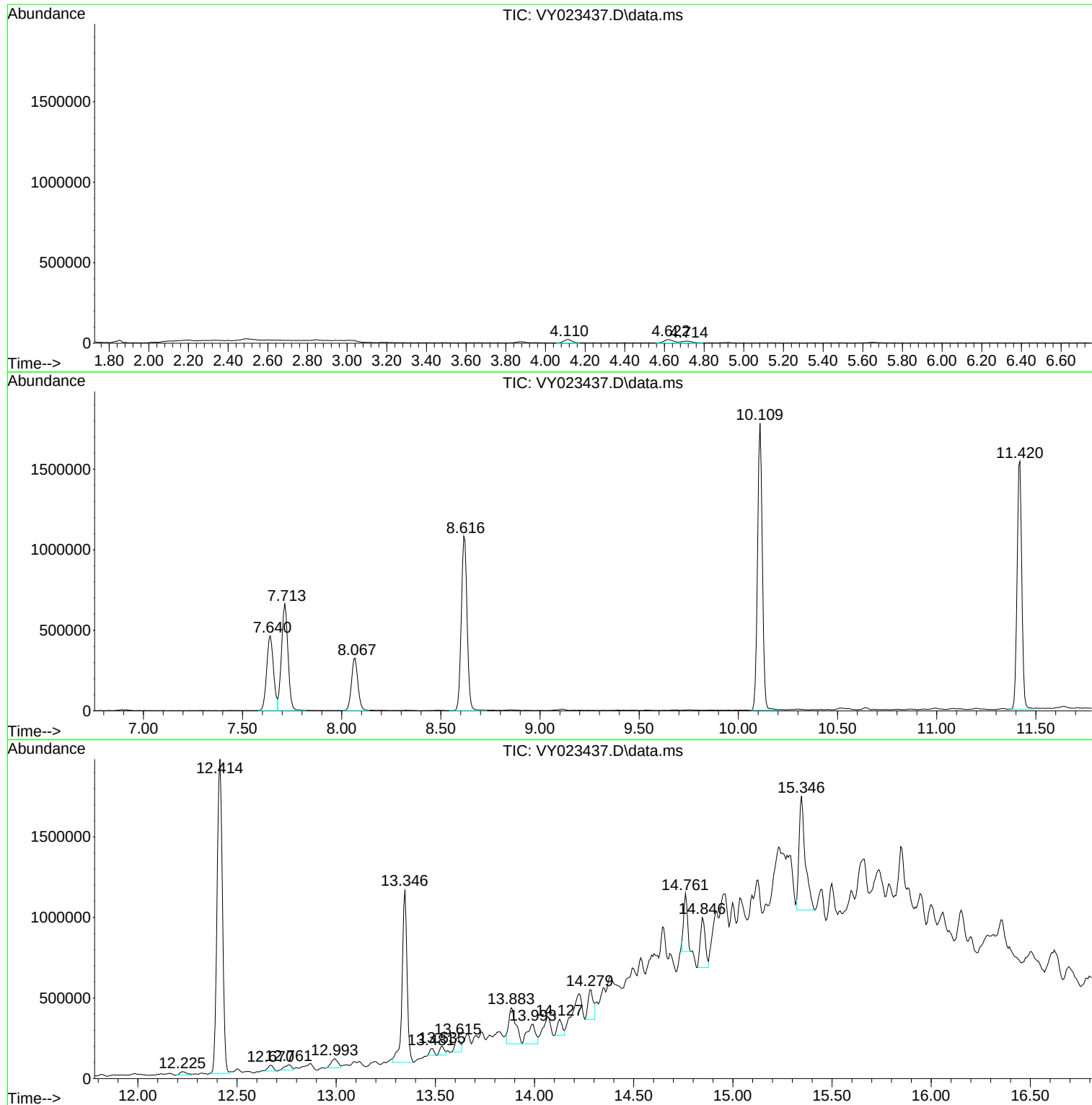
Sum of corrected areas: 21411307

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023437.D
Acq On : 10 Oct 2025 14:27
Operator : SY/MD
Sample : Q3323-04
Misc : 5.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-04-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023437.D
Acq On : 10 Oct 2025 14:27
Operator : SY/MD
Sample : Q3323-04
Misc : 5.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-04-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.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\VY101025\
Data File : VY023437.D
Acq On : 10 Oct 2025 14:27
Operator : SY/MD
Sample : Q3323-04
Misc : 5.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-04-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.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:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace		Date Received:	10/09/25
Client Sample ID:	SED-05-0-2		SDG No.:	Q3323
Lab Sample ID:	Q3323-05		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	77.4
Sample Wt/Vol:	6.35	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023438.D	1	10/10/25 14:50	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.10	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.10	ug/Kg
75-01-4	Vinyl Chloride	0.80	U	0.80	5.10	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.10	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.10	ug/Kg
67-64-1	Acetone	13.7	J	4.80	25.4	ug/Kg
75-15-0	Carbon Disulfide	4.10	J	1.10	5.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.74	U	0.74	5.10	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.10	ug/Kg
75-09-2	Methylene Chloride	4.40	J	3.60	10.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.87	U	0.87	5.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.10	ug/Kg
110-82-7	Cyclohexane	0.80	U	0.80	5.10	ug/Kg
78-93-3	2-Butanone	6.70	U	6.70	25.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.99	U	0.99	5.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.76	U	0.76	5.10	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.10	ug/Kg
67-66-3	Chloroform	0.85	U	0.85	5.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.95	U	0.95	5.10	ug/Kg
108-87-2	Methylcyclohexane	0.93	U	0.93	5.10	ug/Kg
71-43-2	Benzene	0.80	U	0.80	5.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.80	U	0.80	5.10	ug/Kg
79-01-6	Trichloroethene	0.82	U	0.82	5.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.93	U	0.93	5.10	ug/Kg
75-27-4	Bromodichloromethane	0.79	U	0.79	5.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.4	ug/Kg
108-88-3	Toluene	0.79	U	0.79	5.10	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc			Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace			Date Received:	10/09/25
Client Sample ID:	SED-05-0-2			SDG No.:	Q3323
Lab Sample ID:	Q3323-05			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	77.4
Sample Wt/Vol:	6.35	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023438.D	1	10/10/25 14:50	VY101025

[illegible]

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-05-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.4
Sample Wt/Vol:	6.35 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023438.D	1	10/10/25 14:50	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
019781-47-6	Cyclohexane, 1,3-dimethyl-2-methyl	5.50	J		13.7	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	11.9	J		14.2	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\VY101025\
 Data File : VY023438.D
 Acq On : 10 Oct 2025 14:50
 Operator : SY/MD
 Sample : Q3323-05
 Misc : 6.35g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-05-0-2

Quant Time: Oct 11 01:58:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

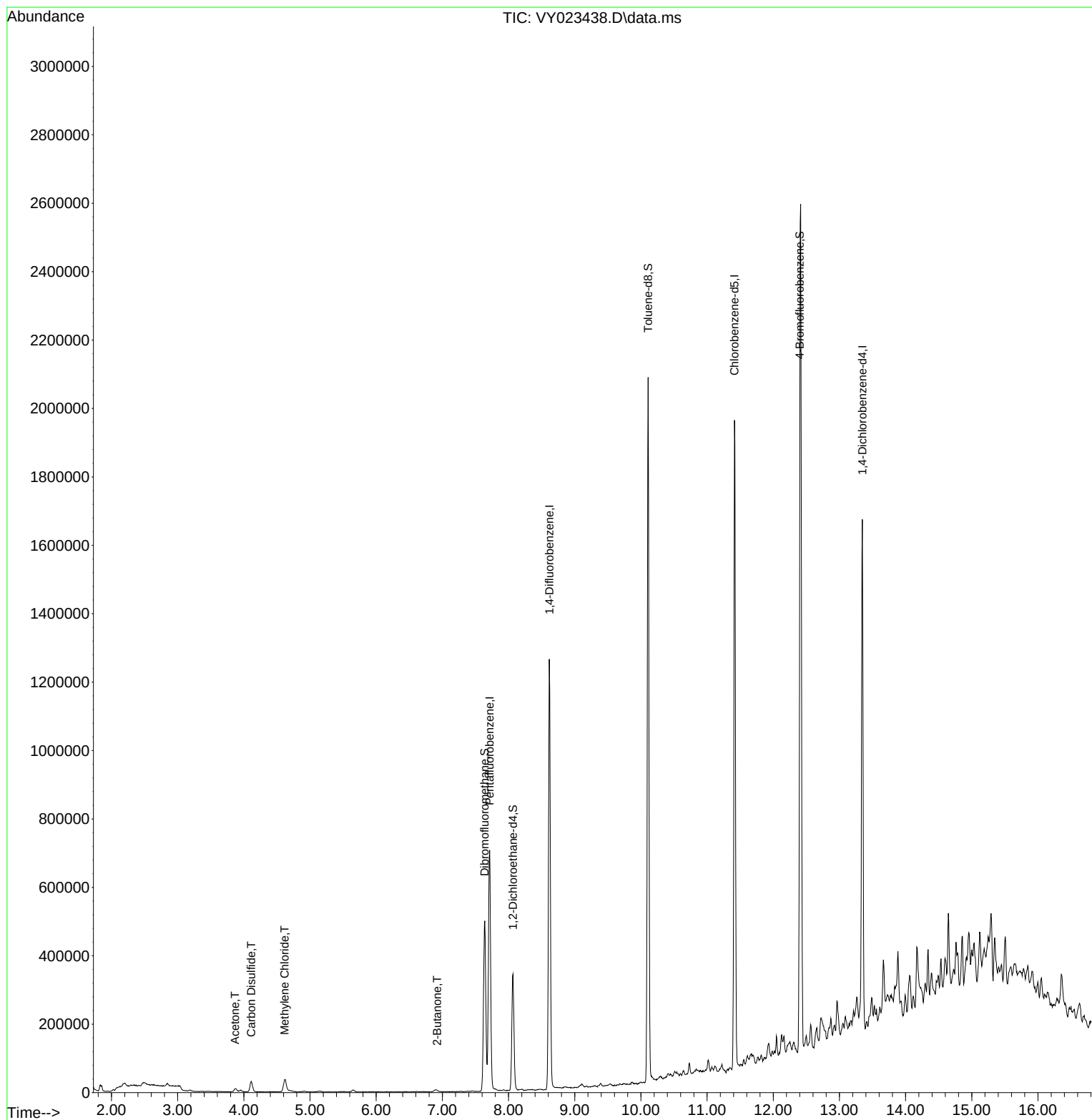
Internal Standards						
1) Pentafluorobenzene	7.713	168	601910	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1138564	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1096445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	417654	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	267085	53.064	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 106.120%	
35) Dibromofluoromethane	7.640	113	357605	51.116	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.240%	
50) Toluene-d8	10.109	98	1362460	52.295	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 104.580%	
62) 4-Bromofluorobenzene	12.402	95	439956	51.148	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 102.300%	
Target Compounds						
					Qvalue	
16) Acetone	3.867	43	16100	13.436	ug/l	96
17) Carbon Disulfide	4.110	76	62177	4.046	ug/l	99
20) Methylene Chloride	4.616	84	28104	4.337	ug/l	97
25) 2-Butanone	6.921	43	4772	3.262	ug/l	90

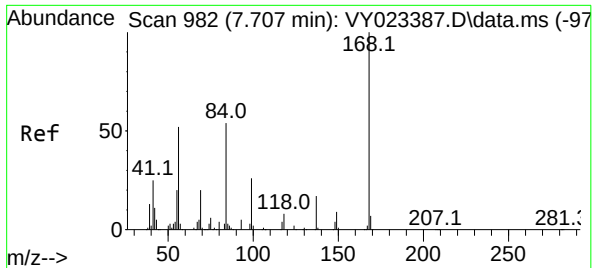
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023438.D
Acq On : 10 Oct 2025 14:50
Operator : SY/MD
Sample : Q3323-05
Misc : 6.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-05-0-2

Quant Time: Oct 11 01:58:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

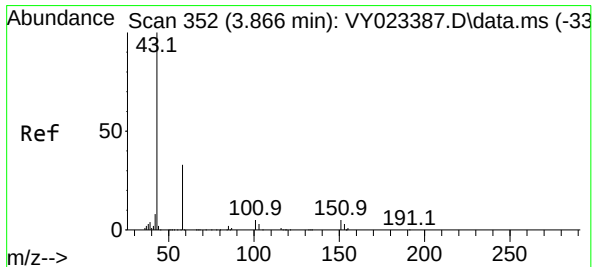
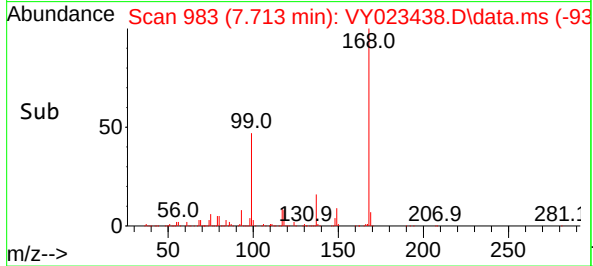
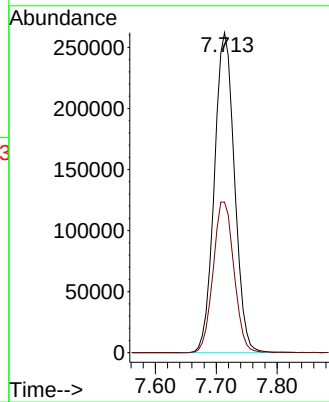
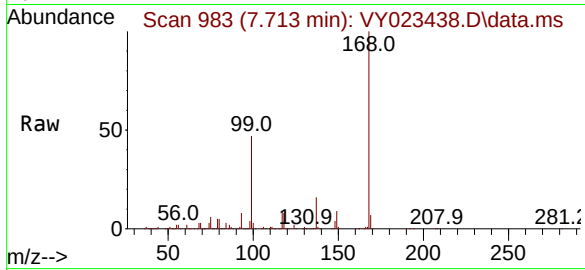




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY023438.D
Acq: 10 Oct 2025 14:50

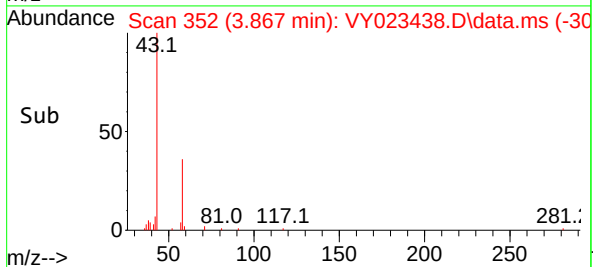
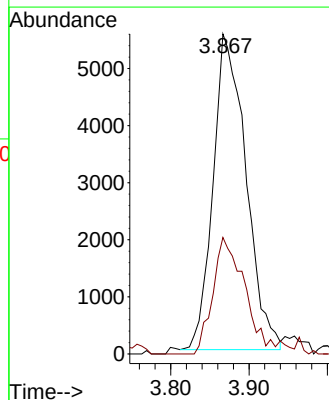
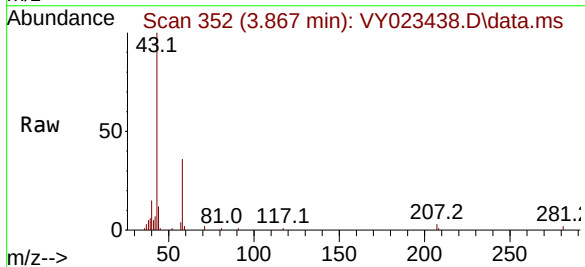
Instrument :
MSVOA_Y
ClientSampleId :
SED-05-0-2

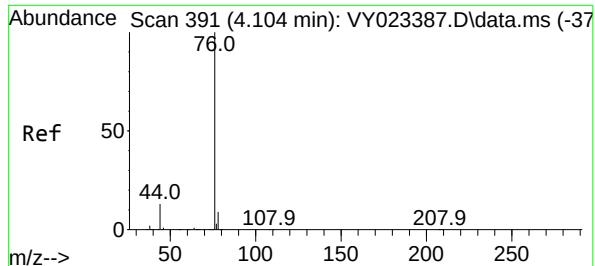
Tgt Ion:168 Resp: 601910
Ion Ratio Lower Upper
168 100
99 47.0 39.7 59.5



#16
Acetone
Concen: 13.436 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY023438.D
Acq: 10 Oct 2025 14:50

Tgt Ion: 43 Resp: 16100
Ion Ratio Lower Upper
43 100
58 36.9 27.7 41.5

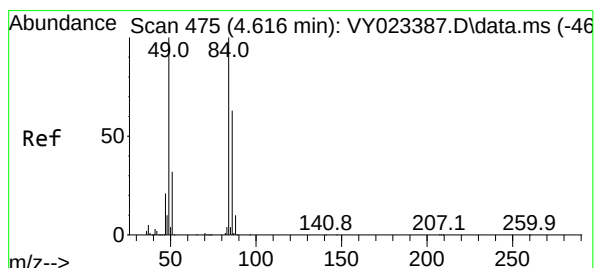
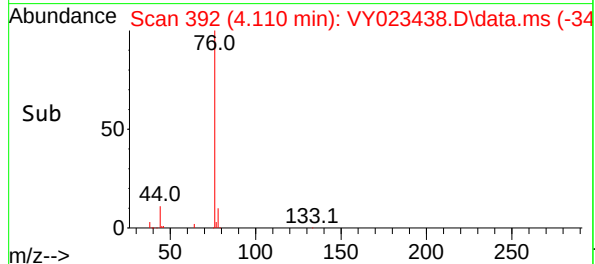
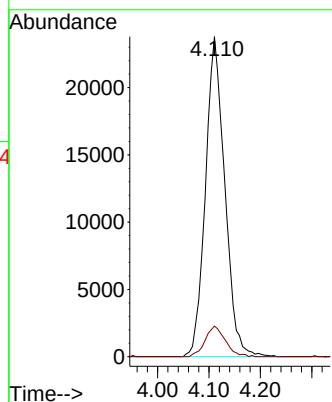
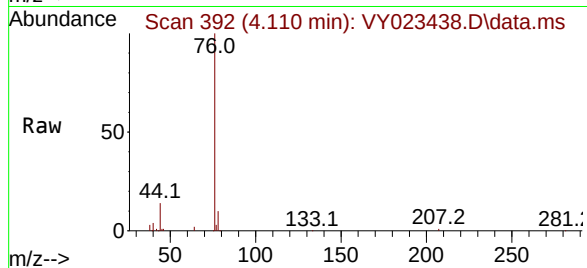




#17
Carbon Disulfide
Concen: 4.046 ug/l
RT: 4.110 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY023438.D
Acq: 10 Oct 2025 14:50

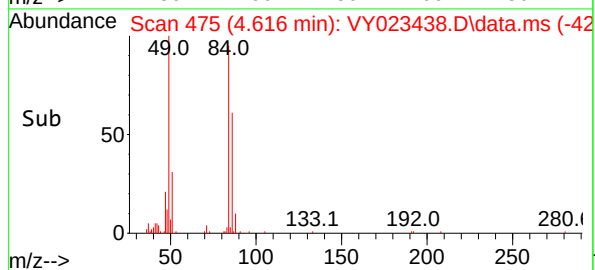
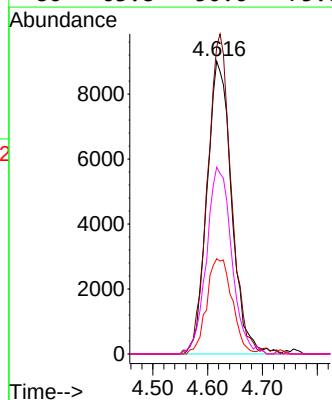
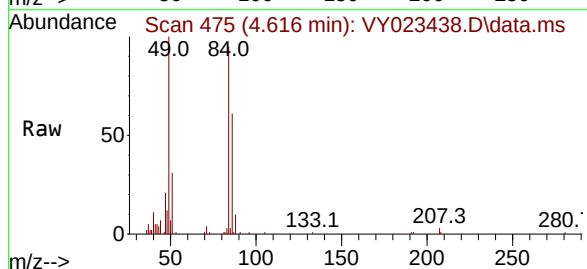
Instrument :
MSVOA_Y
ClientSampleId :
SED-05-0-2

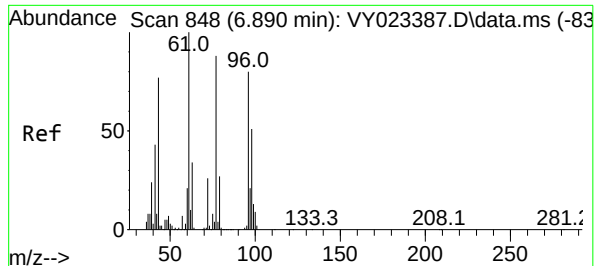
Tgt Ion: 76 Resp: 62177
Ion Ratio Lower Upper
76 100
78 9.6 7.3 10.9



#20
Methylene Chloride
Concen: 4.337 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023438.D
Acq: 10 Oct 2025 14:50

Tgt Ion: 84 Resp: 28104
Ion Ratio Lower Upper
84 100
49 104.9 80.2 120.4
51 32.5 25.9 38.9
86 63.8 50.6 75.8





#25

2-Butanone

Concen: 3.262 ug/l

RT: 6.921 min Scan# 81

Delta R.T. 0.031 min

Lab File: VY023438.D

Acq: 10 Oct 2025 14:50

Instrument :

MSVOA_Y

ClientSampleId :

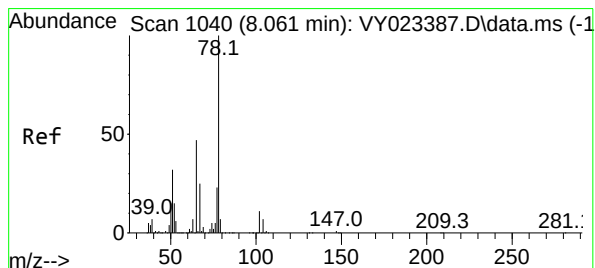
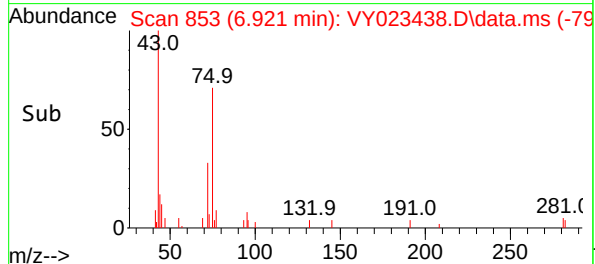
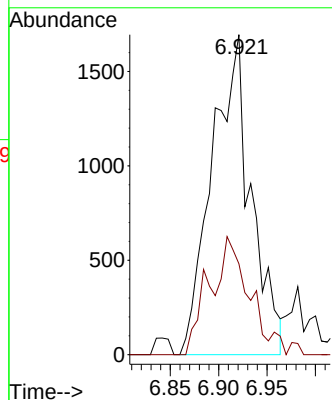
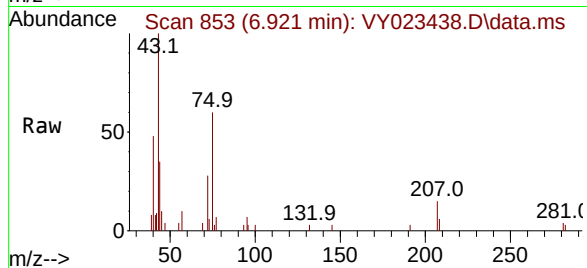
SED-05-0-2

Tgt Ion: 43 Resp: 4772

Ion Ratio Lower Upper

43 100

72 28.4 27.4 41.2



#33

1,2-Dichloroethane-d4

Concen: 53.064 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY023438.D

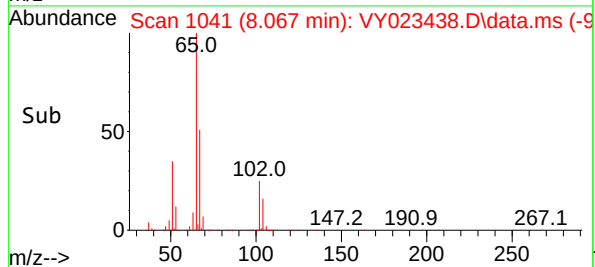
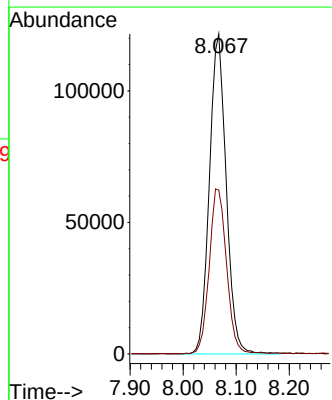
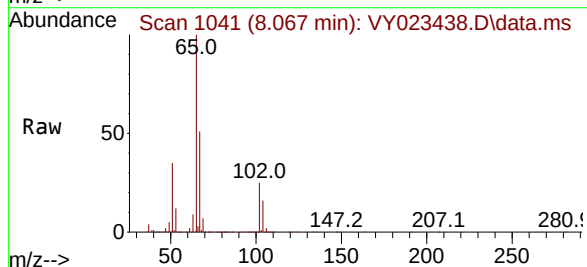
Acq: 10 Oct 2025 14:50

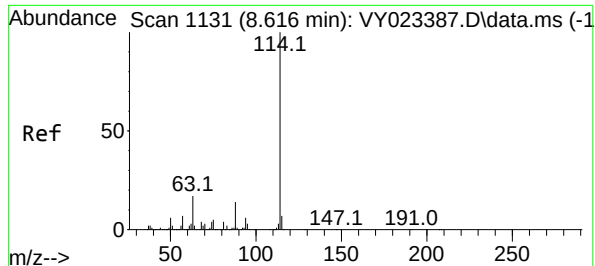
Tgt Ion: 65 Resp: 267085

Ion Ratio Lower Upper

65 100

67 53.1 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023438.D

Acq: 10 Oct 2025 14:50

Instrument :

MSVOA_Y

ClientSampleId :

SED-05-0-2

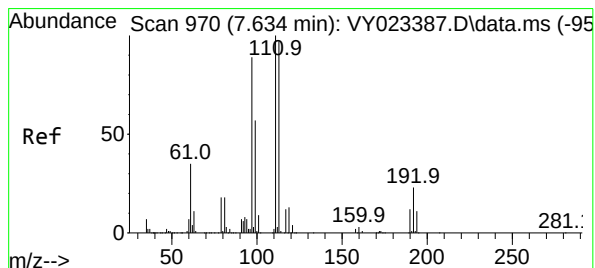
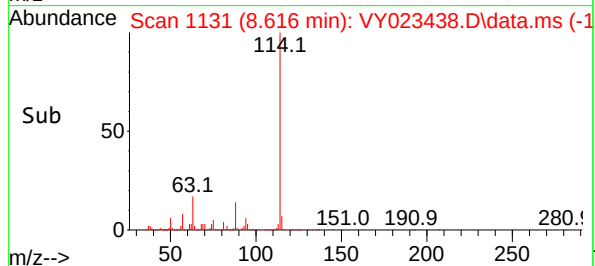
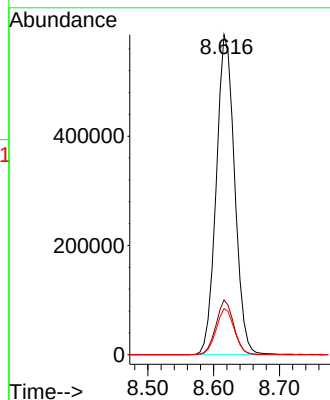
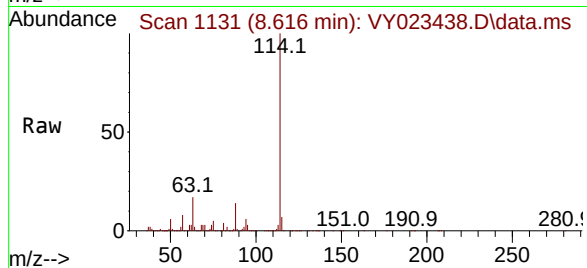
Tgt Ion:114 Resp: 1138564

Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.2

88 14.4 0.0 28.4



#35

Dibromofluoromethane

Concen: 51.116 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY023438.D

Acq: 10 Oct 2025 14:50

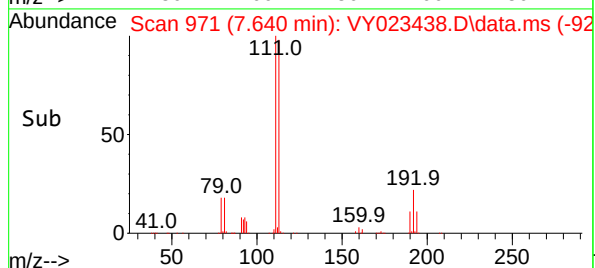
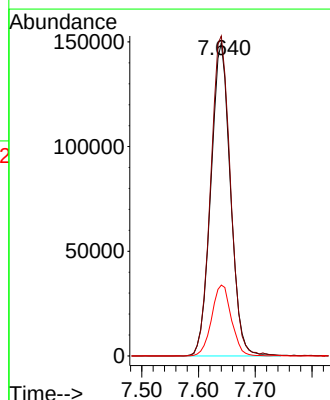
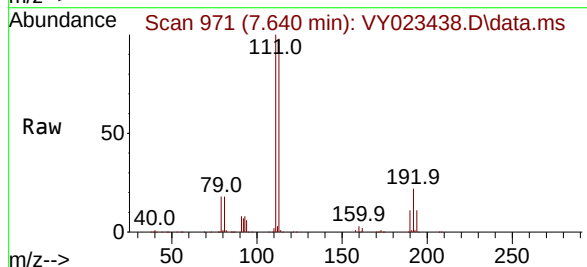
Tgt Ion:113 Resp: 357605

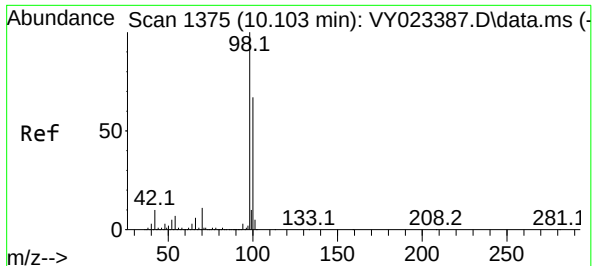
Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.6

192 22.8 18.0 27.0

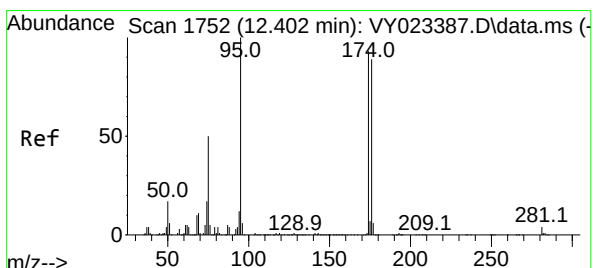
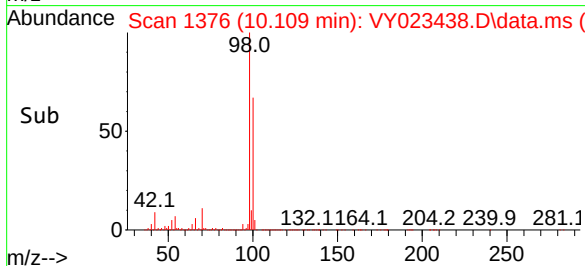
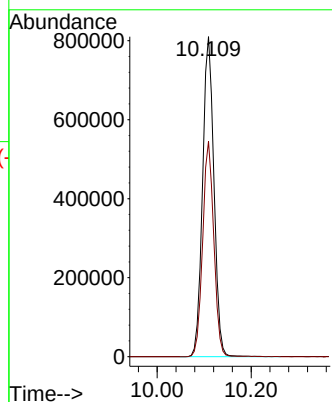
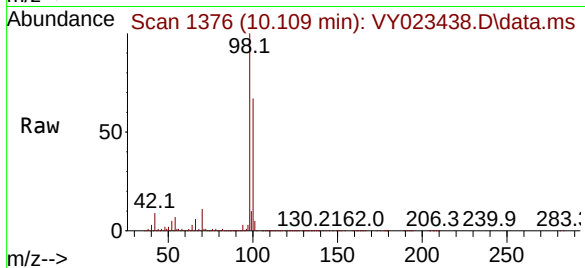




#50
Toluene-d8
Concen: 52.295 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023438.D
Acq: 10 Oct 2025 14:50

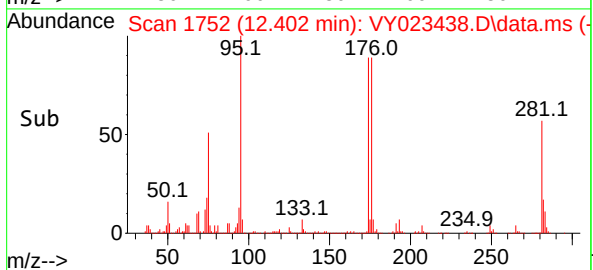
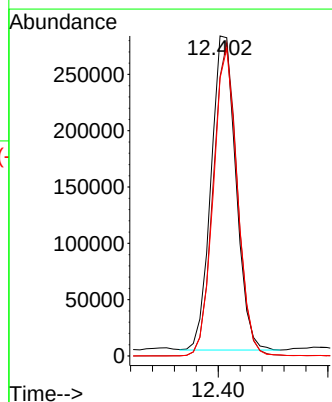
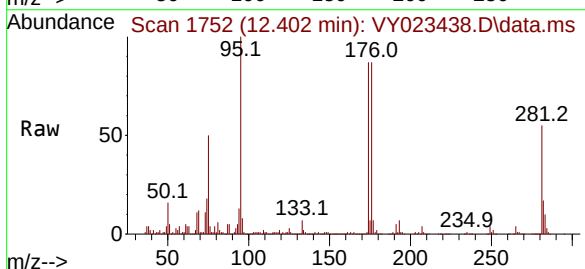
Instrument :
MSVOA_Y
ClientSampleId :
SED-05-0-2

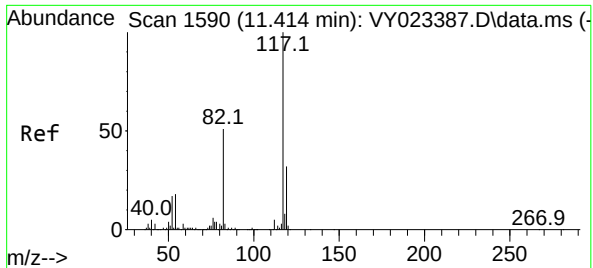
Tgt Ion: 98 Resp: 1362460
Ion Ratio Lower Upper
98 100
100 65.9 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 51.148 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023438.D
Acq: 10 Oct 2025 14:50

Tgt Ion: 95 Resp: 439956
Ion Ratio Lower Upper
95 100
174 96.2 0.0 192.8
176 94.6 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023438.D

Acq: 10 Oct 2025 14:50

Instrument :

MSVOA_Y

ClientSampleId :

SED-05-0-2

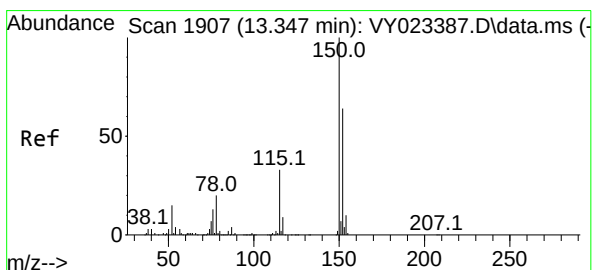
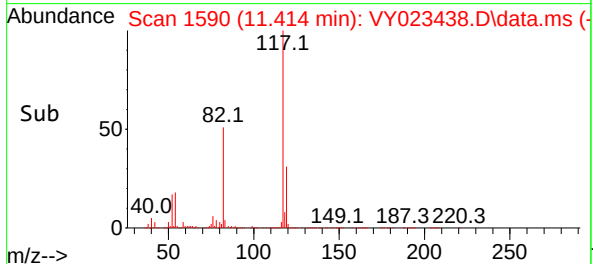
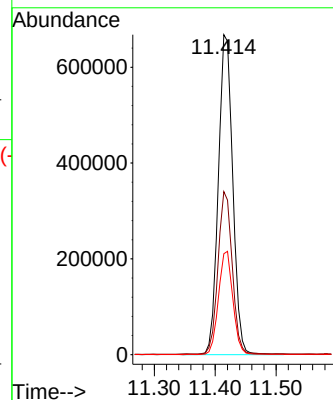
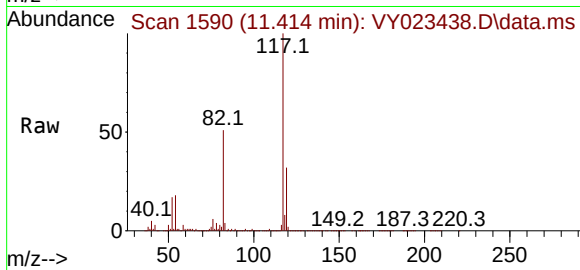
Tgt Ion:117 Resp: 1096445

Ion Ratio Lower Upper

117 100

82 50.7 41.0 61.4

119 31.5 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023438.D

Acq: 10 Oct 2025 14:50

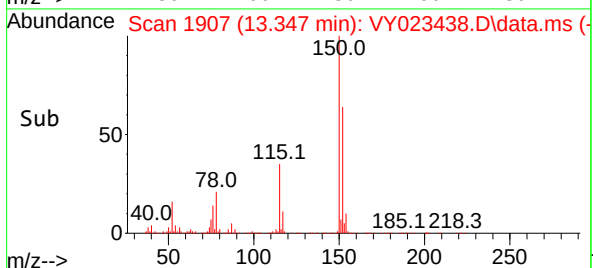
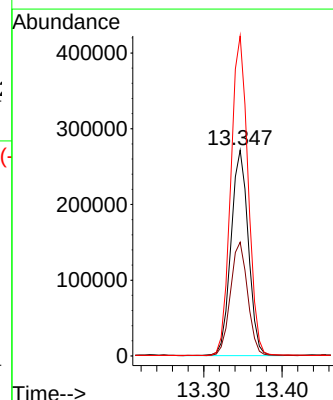
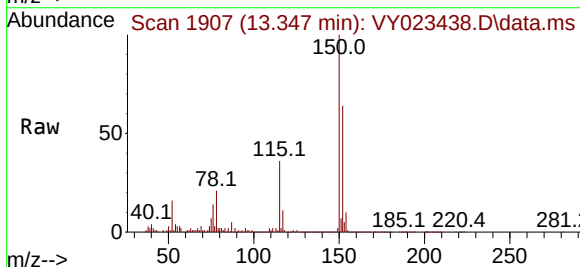
Tgt Ion:152 Resp: 417654

Ion Ratio Lower Upper

152 100

115 55.0 27.1 81.2

150 155.0 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023438.D
 Acq On : 10 Oct 2025 14:50
 Operator : SY/MD
 Sample : Q3323-05
 Misc : 6.35g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-05-0-2

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\82Y100725S.M
 Title : SW846 8260

Signal : TIC: VY023438.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.110	384	392	406	rVB	30805	82580	1.73%	0.358%
2	4.616	463	475	486	rBV2	36232	119589	2.51%	0.518%
3	7.640	961	971	977	rBV	498175	1210047	25.38%	5.244%
4	7.713	977	983	995	rVB	699551	1608994	33.74%	6.973%
5	8.067	1032	1041	1053	rBV	340328	769308	16.13%	3.334%
6	8.616	1123	1131	1145	rBV	1258754	2455176	51.49%	10.640%
7	10.109	1369	1376	1384	rBV	2060685	3483249	73.05%	15.096%
8	11.018	1522	1525	1530	rVB4	32947	53424	1.12%	0.232%
9	11.414	1584	1590	1600	rBV	1895097	3108909	65.20%	13.473%
10	12.048	1691	1694	1699	rVB	56554	69283	1.45%	0.300%
11	12.127	1703	1707	1709	rBV3	47796	71549	1.50%	0.310%
12	12.414	1747	1754	1762	rBV2	2476495	4768245	100.00%	20.664%
13	12.566	1776	1779	1787	rVB5	68648	112453	2.36%	0.487%
14	12.725	1800	1805	1814	rBV9	66360	229716	4.82%	0.996%
15	12.962	1841	1844	1853	rVB6	99001	198792	4.17%	0.862%
16	13.347	1902	1907	1914	rVB	1488771	2379127	49.90%	10.311%
17	13.664	1955	1959	1965	rBV6	142743	257006	5.39%	1.114%
18	13.883	1992	1995	2000	rVB3	151122	226267	4.75%	0.981%
19	14.060	2019	2024	2030	rBV8	101007	234749	4.92%	1.017%
20	14.170	2038	2042	2058	rBV7	176136	556528	11.67%	2.412%
21	14.340	2066	2070	2074	rVB4	132207	177890	3.73%	0.771%
22	14.535	2099	2102	2106	rVB5	82698	102792	2.16%	0.445%
23	14.645	2117	2120	2127	rVB2	205576	319455	6.70%	1.384%
24	14.858	2151	2155	2158	rVB4	140411	210448	4.41%	0.912%
25	15.346	2231	2235	2242	rBV4	125984	269119	5.64%	1.166%

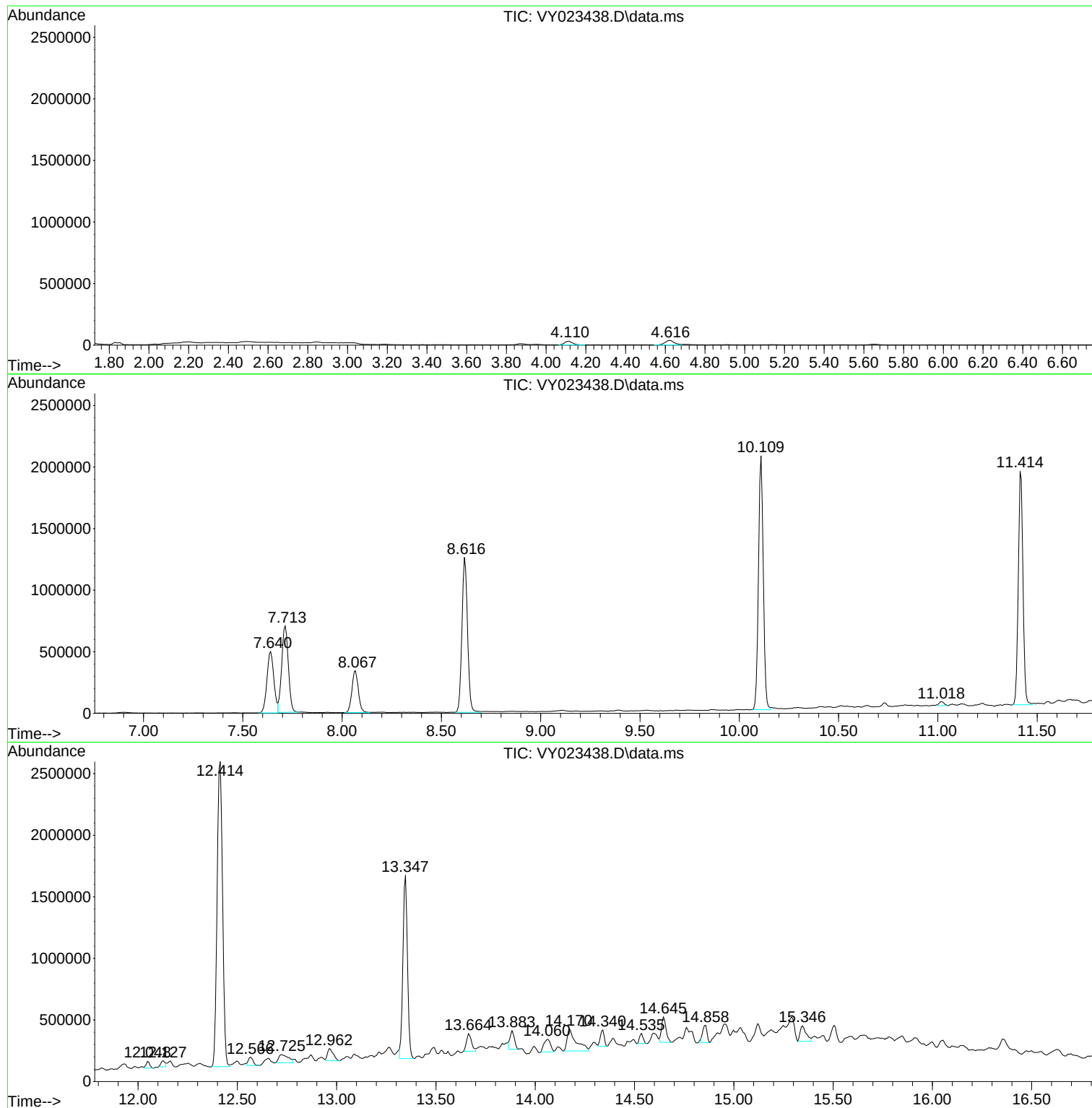
Sum of corrected areas: 23074695

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023438.D
Acq On : 10 Oct 2025 14:50
Operator : SY/MD
Sample : Q3323-05
Misc : 6.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-05-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023438.D
Acq On : 10 Oct 2025 14:50
Operator : SY/MD
Sample : Q3323-05
Misc : 6.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-05-0-2

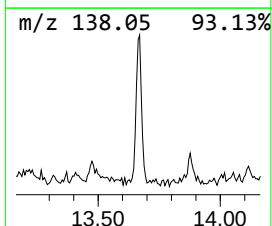
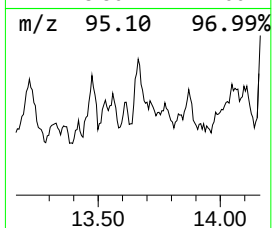
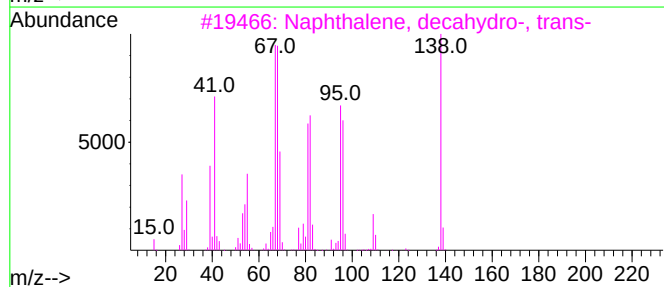
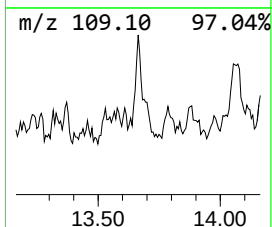
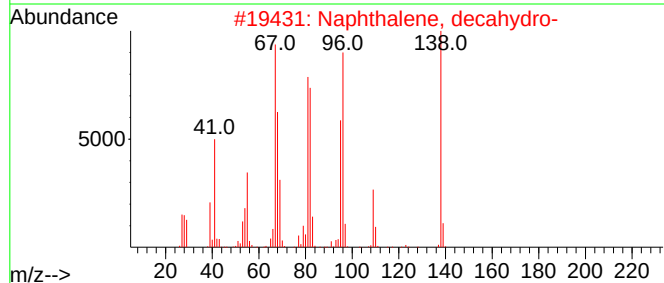
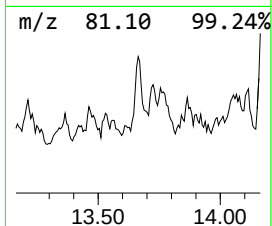
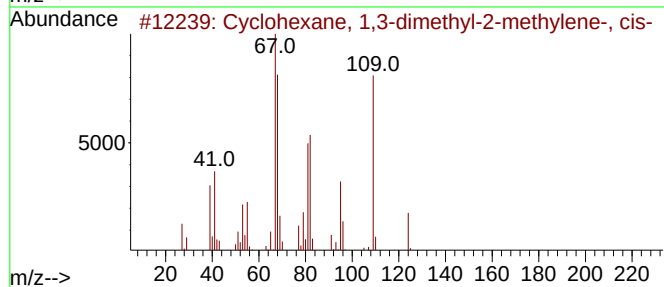
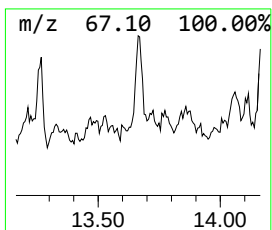
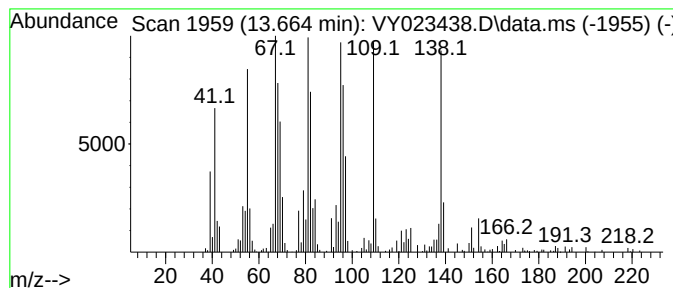
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.664	5.40 ug/l	257006	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, 1,3-dimethyl-2-meth...	124	C9H16	019781-47-6	92
2			Naphthalene, decahydro-	138	C10H18	000091-17-8	81
3			Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	70
4			Naphthalene, decahydro-, cis-	138	C10H18	000493-01-6	70
5			Cyclohexane, 1-methyl-3-(1-methy...	138	C10H18	024399-15-3	70



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023438.D
Acq On : 10 Oct 2025 14:50
Operator : SY/MD
Sample : Q3323-05
Misc : 6.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-05-0-2

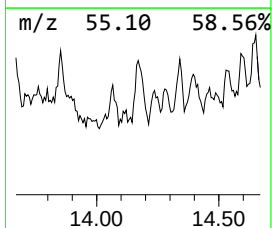
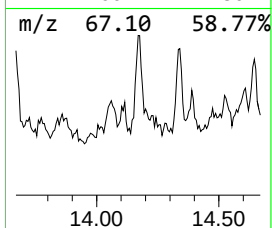
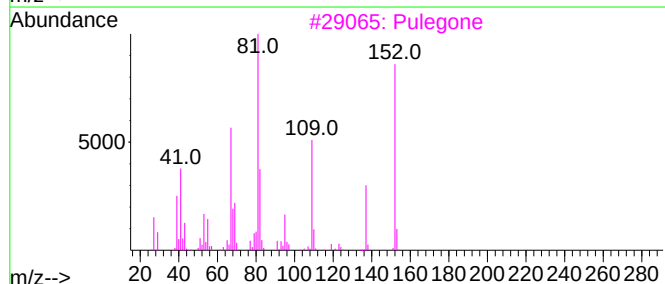
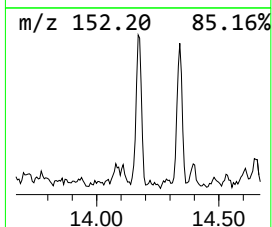
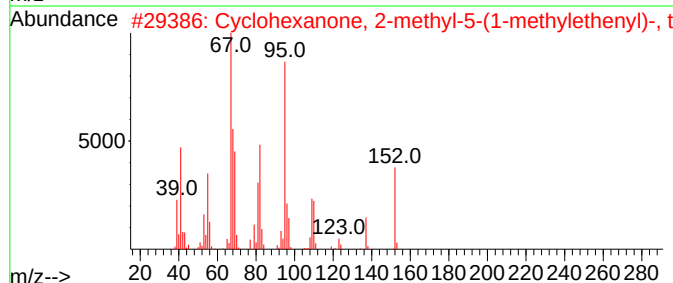
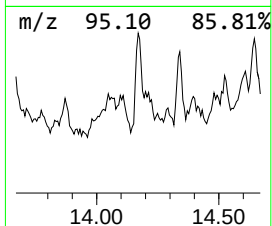
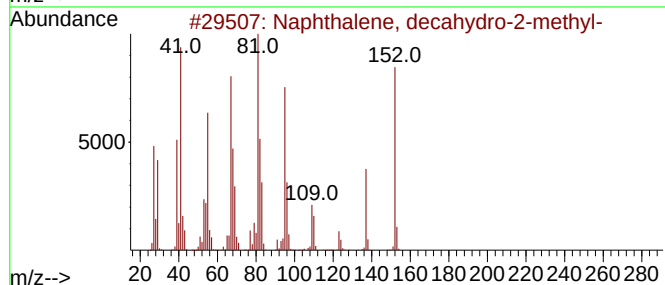
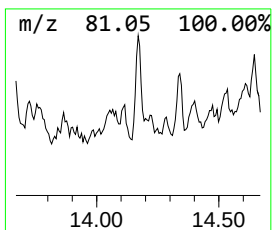
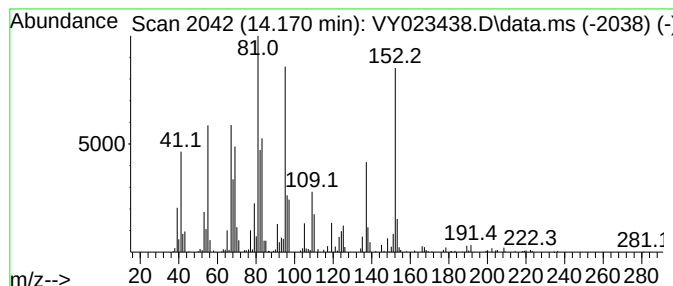
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

Peak Number 2 Naphthalene, decahydro-2-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.170	11.70 ug/l	556528	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	94
2			Cyclohexanone, 2-methyl-5-(1-met...	152	C10H16O	005948-04-9	64
3			Pulegone	152	C10H16O	000089-82-7	53
4			Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	52
5			Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-01-6	52



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023438.D
Acq On : 10 Oct 2025 14:50
Operator : SY/MD
Sample : Q3323-05
Misc : 6.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-05-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.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
Cyclohexane, 1,...	13.664	5.4	ug/l	257006	4	13.347	2379130	50.0
Naphthalene, de...	14.170	11.7	ug/l	556528	4	13.347	2379130	50.0

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-06-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.8
Sample Wt/Vol:	7.74 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:	Date Analyzed	Prep Batch ID
VY023439.D	1	10/10/25 15:13	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.91	U	0.91	4.00	ug/Kg
74-87-3	Chloromethane	0.91	U	0.91	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.63	U	0.63	4.00	ug/Kg
74-83-9	Bromomethane	0.86	U	0.86	4.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.97	U	0.97	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.85	U	0.85	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.80	U	0.80	4.00	ug/Kg
67-64-1	Acetone	8.50	J	3.80	20.0	ug/Kg
75-15-0	Carbon Disulfide	1.40	J	0.85	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.00	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	4.00	ug/Kg
75-09-2	Methylene Chloride	5.10	J	2.80	8.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.69	U	0.69	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.64	U	0.64	4.00	ug/Kg
110-82-7	Cyclohexane	0.63	U	0.63	4.00	ug/Kg
78-93-3	2-Butanone	5.20	U	5.20	20.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.78	U	0.78	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.60	U	0.60	4.00	ug/Kg
74-97-5	Bromochloromethane	0.92	U	0.92	4.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.74	U	0.74	4.00	ug/Kg
108-87-2	Methylcyclohexane	0.73	U	0.73	4.00	ug/Kg
71-43-2	Benzene	0.63	U	0.63	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.63	U	0.63	4.00	ug/Kg
79-01-6	Trichloroethene	0.65	U	0.65	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.73	U	0.73	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.62	U	0.62	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	20.0	ug/Kg
108-88-3	Toluene	0.62	U	0.62	4.00	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-06-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.8
Sample Wt/Vol:	7.74 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:	Date Analyzed	Prep Batch ID
VY023439.D	1	10/10/25 15:13	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.74	U	0.74	4.00	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.0	ug/Kg
124-48-1	Dibromochloromethane	0.70	U	0.70	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.70	U	0.70	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.84	U	0.84	4.00	ug/Kg
108-90-7	Chlorobenzene	0.73	U	0.73	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.54	U	0.54	4.00	ug/Kg
179601-23-1	m/p-Xylenes	0.99	U	0.99	8.00	ug/Kg
95-47-6	o-Xylene	0.66	U	0.66	4.00	ug/Kg
100-42-5	Styrene	0.57	U	0.57	4.00	ug/Kg
75-25-2	Bromoform	0.69	U	0.69	4.00	ug/Kg
98-82-8	Isopropylbenzene	0.62	U	0.62	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.97	U	0.97	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	4.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.2		63 - 155	116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	52.4		74 - 123	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.2		17 - 146	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	613000	7.713			
540-36-3	1,4-Difluorobenzene	1180000	8.616			
3114-55-4	Chlorobenzene-d5	1180000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	481000	13.346			

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace		Date Received:	10/09/25
Client Sample ID:	SED-06-0-2		SDG No.:	Q3323
Lab Sample ID:	Q3323-06		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	80.8
Sample Wt/Vol:	7.74	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:	Date Analyzed	Prep Batch ID
VY023439.D	1	10/10/25 15:13	VY101025

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\VY101025\
 Data File : VY023439.D
 Acq On : 10 Oct 2025 15:13
 Operator : SY/MD
 Sample : Q3323-06
 Misc : 7.74g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-06-0-2

Quant Time: Oct 11 01:59:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

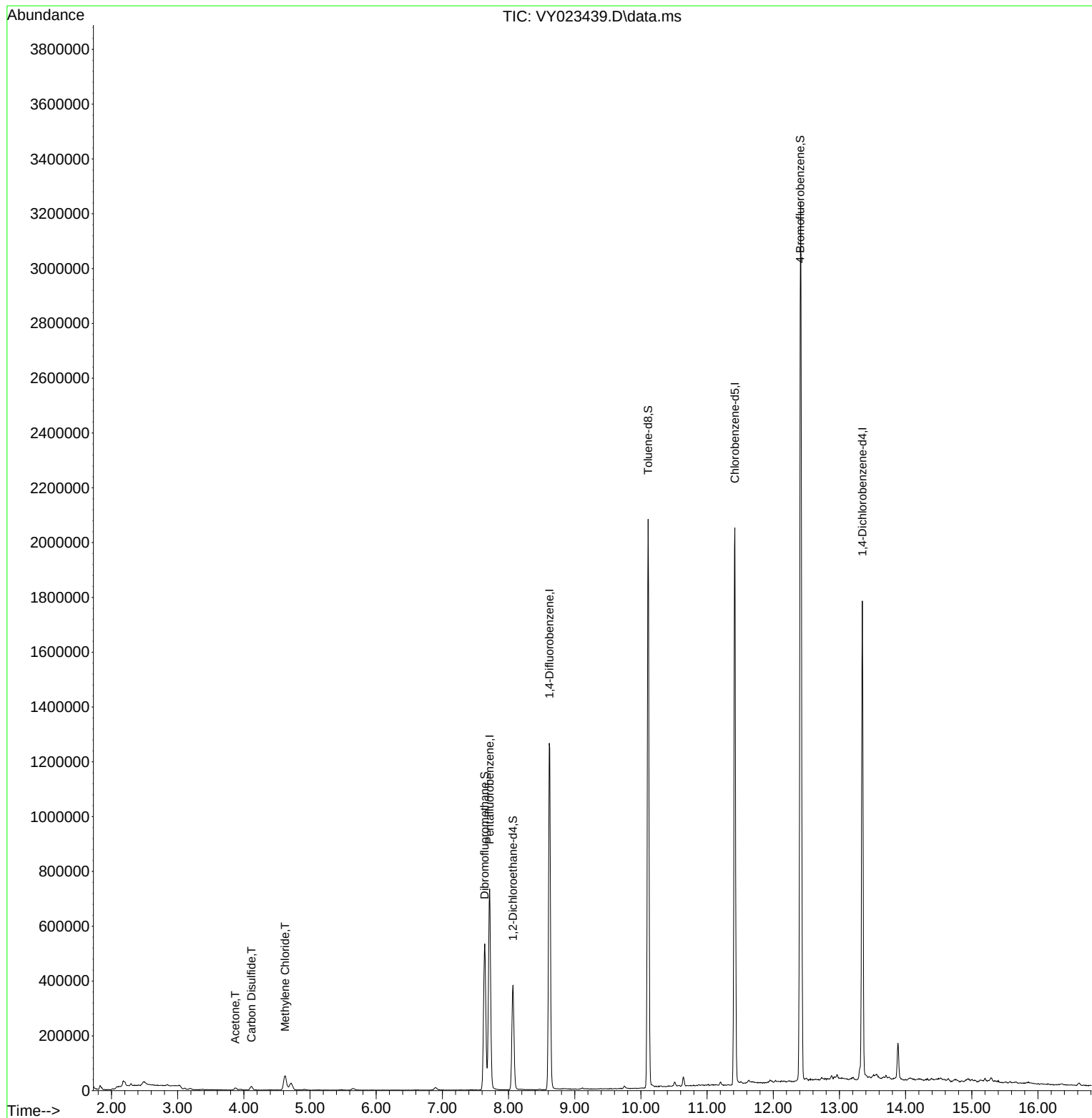
Internal Standards						
1) Pentafluorobenzene	7.713	168	613438	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1182950	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1184267	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	480884	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	298710	58.232	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 116.460%	
35) Dibromofluoromethane	7.640	113	383299	52.733	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.460%	
50) Toluene-d8	10.109	98	1417365	52.361	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 104.720%	
62) 4-Bromofluorobenzene	12.408	95	493644	55.237	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 110.480%	
Target Compounds						Qvalue
16) Acetone	3.872	43	12971	10.621	ug/l	96
17) Carbon Disulfide	4.116	76	27280	1.742	ug/l	96
20) Methylene Chloride	4.622	84	42414	6.423	ug/l	97

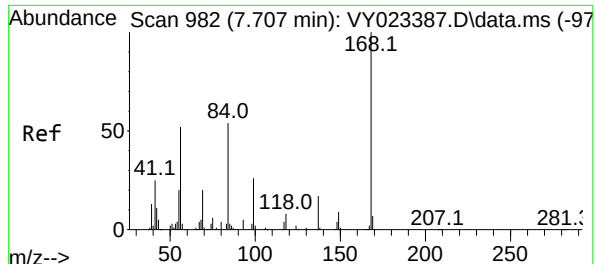
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023439.D
Acq On : 10 Oct 2025 15:13
Operator : SY/MD
Sample : Q3323-06
Misc : 7.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-06-0-2

Quant Time: Oct 11 01:59:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

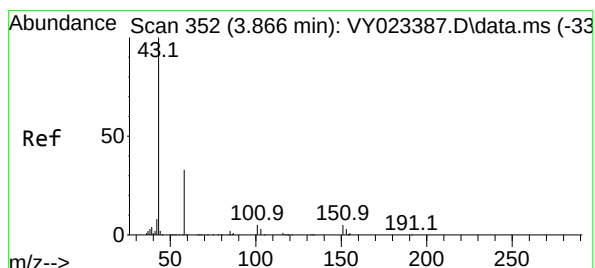
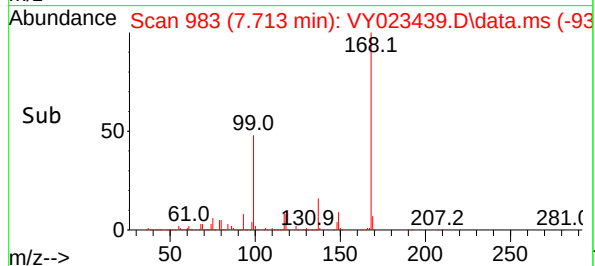
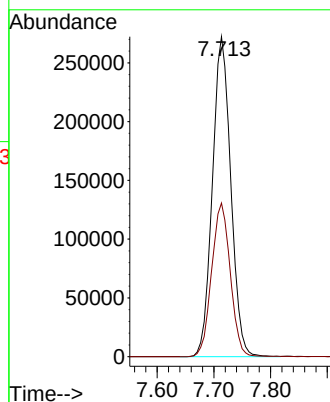
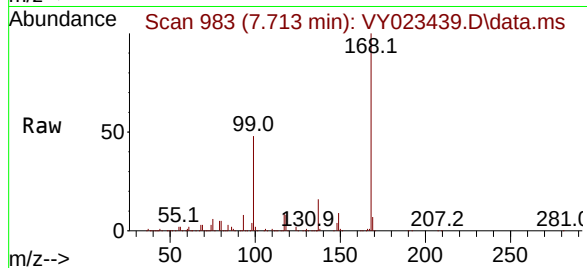




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY023439.D
Acq: 10 Oct 2025 15:13

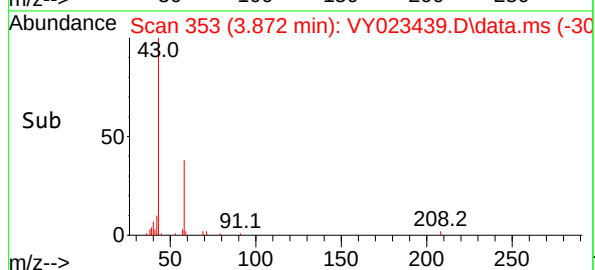
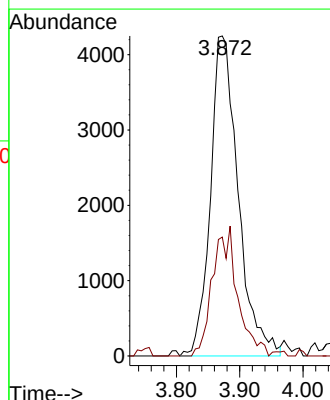
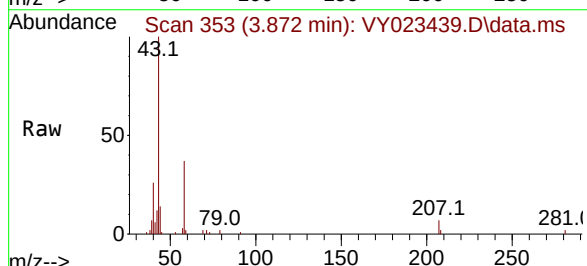
Instrument :
MSVOA_Y
ClientSampleId :
SED-06-0-2

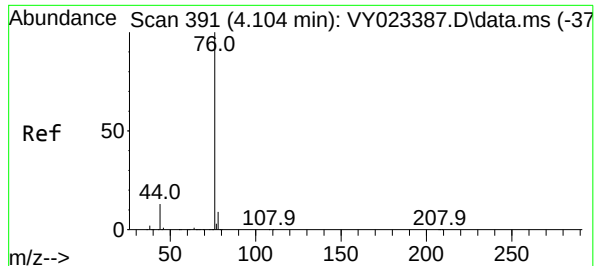
Tgt Ion:168 Resp: 613438
Ion Ratio Lower Upper
168 100
99 48.0 39.7 59.5



#16
Acetone
Concen: 10.621 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023439.D
Acq: 10 Oct 2025 15:13

Tgt Ion: 43 Resp: 12971
Ion Ratio Lower Upper
43 100
58 37.2 27.7 41.5





#17

Carbon Disulfide

Concen: 1.742 ug/l

RT: 4.116 min Scan# 391

Delta R.T. 0.012 min

Lab File: VY023439.D

Acq: 10 Oct 2025 15:13

Instrument :

MSVOA_Y

ClientSampleId :

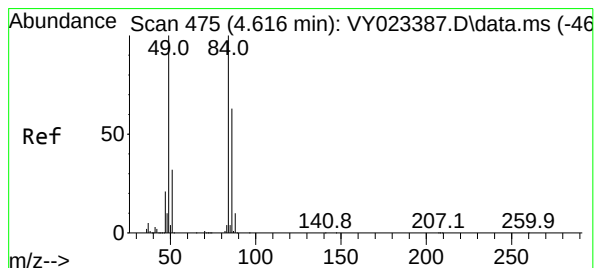
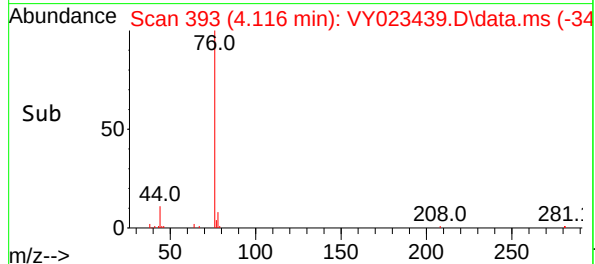
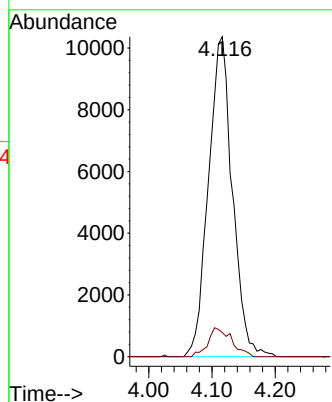
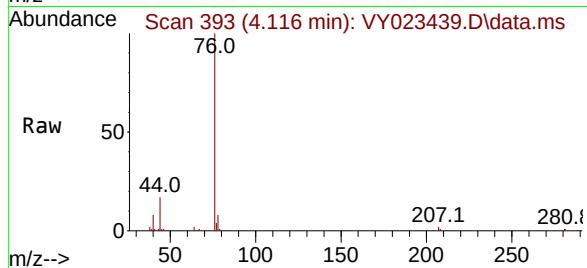
SED-06-0-2

Tgt Ion: 76 Resp: 27280

Ion Ratio Lower Upper

76 100

78 7.6 7.3 10.9



#20

Methylene Chloride

Concen: 6.423 ug/l

RT: 4.622 min Scan# 476

Delta R.T. 0.006 min

Lab File: VY023439.D

Acq: 10 Oct 2025 15:13

Tgt Ion: 84 Resp: 42414

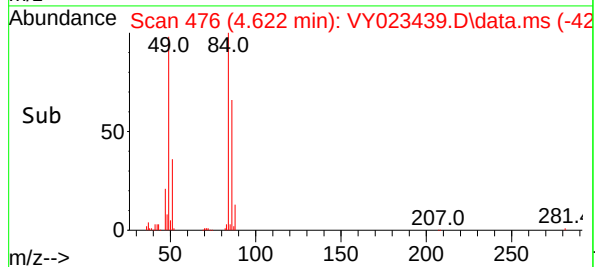
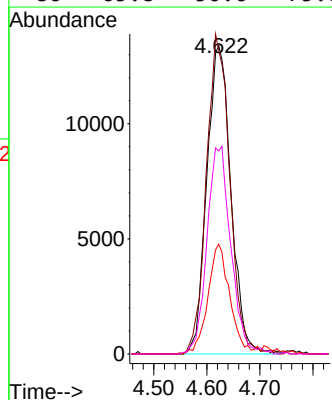
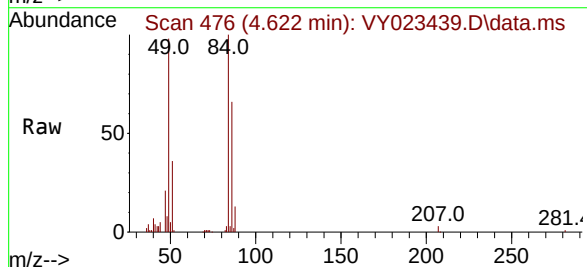
Ion Ratio Lower Upper

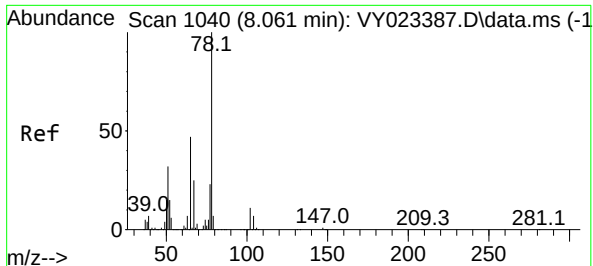
84 100

49 98.3 80.2 120.4

51 35.1 25.9 38.9

86 65.8 50.6 75.8





#33

1,2-Dichloroethane-d4

Concen: 58.232 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023439.D

Acq: 10 Oct 2025 15:13

Instrument :

MSVOA_Y

ClientSampleId :

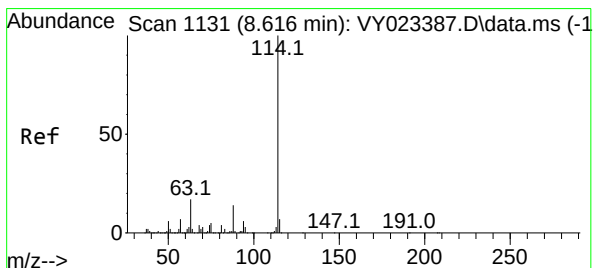
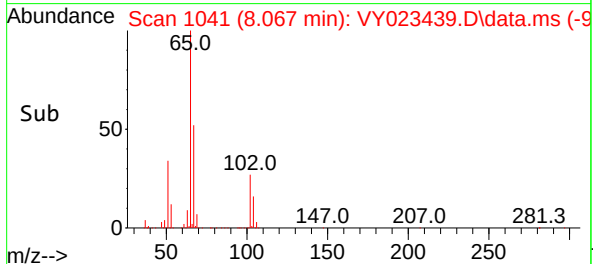
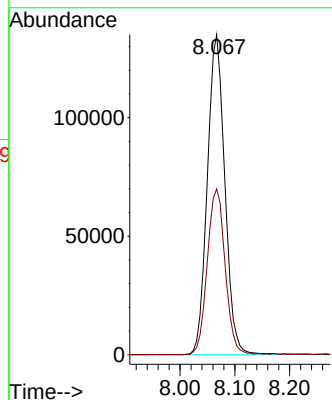
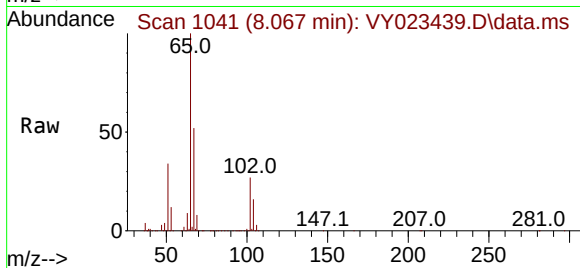
SED-06-0-2

Tgt Ion: 65 Resp: 298710

Ion Ratio Lower Upper

65 100

67 52.9 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023439.D

Acq: 10 Oct 2025 15:13

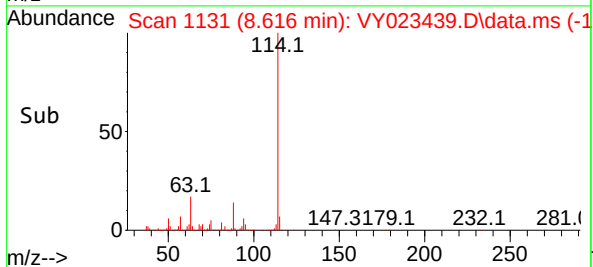
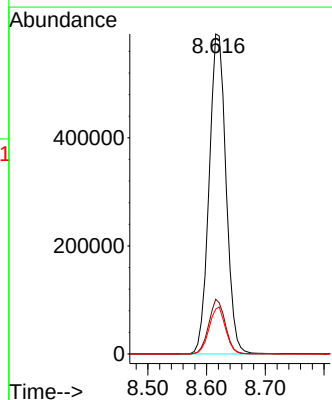
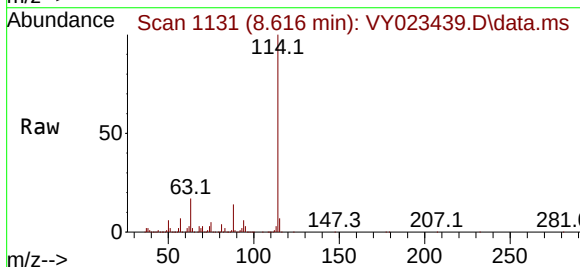
Tgt Ion:114 Resp: 1182950

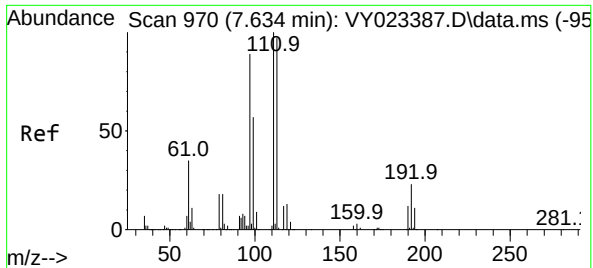
Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.2

88 14.0 0.0 28.4





#35

Dibromofluoromethane

Concen: 52.733 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY023439.D

Acq: 10 Oct 2025 15:13

Instrument :

MSVOA_Y

ClientSampleId :

SED-06-0-2

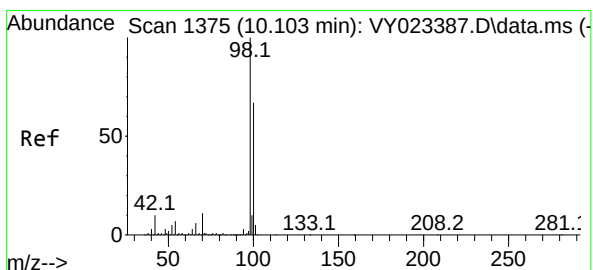
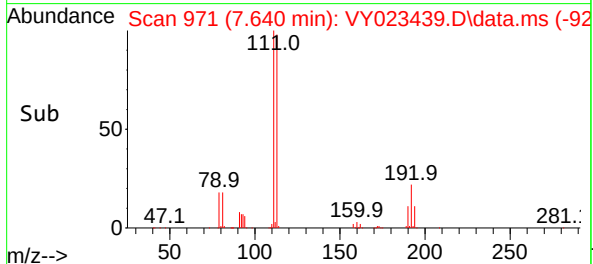
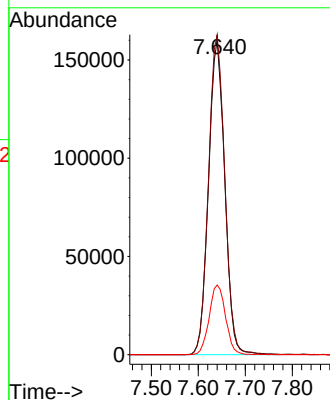
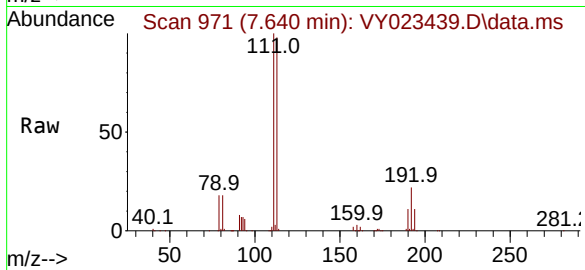
Tgt Ion:113 Resp: 383299

Ion Ratio Lower Upper

113 100

111 102.4 81.8 122.6

192 22.4 18.0 27.0



#50

Toluene-d8

Concen: 52.361 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023439.D

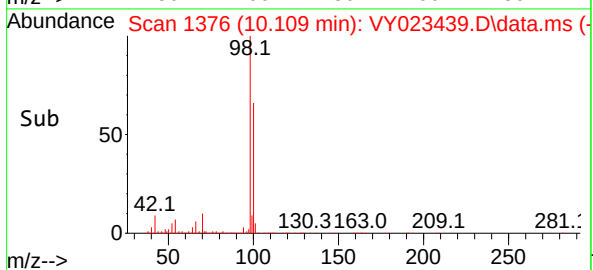
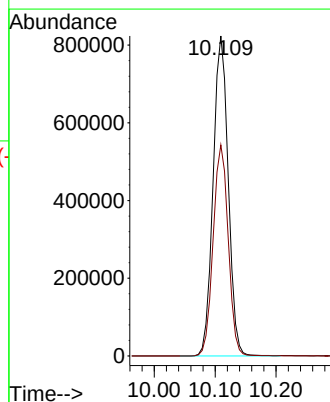
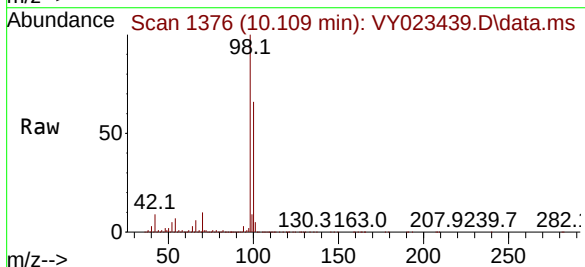
Acq: 10 Oct 2025 15:13

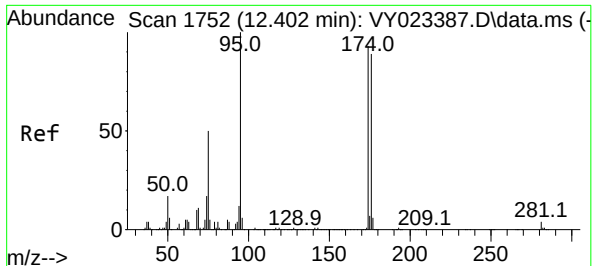
Tgt Ion: 98 Resp: 1417365

Ion Ratio Lower Upper

98 100

100 65.7 53.0 79.4

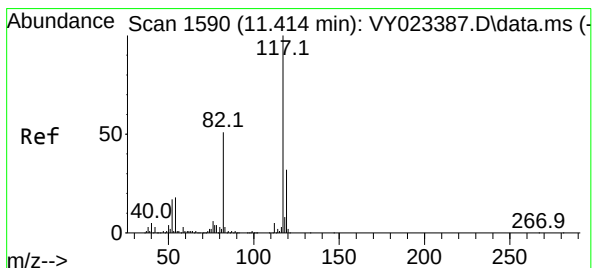
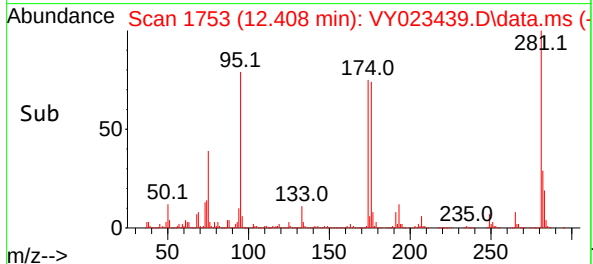
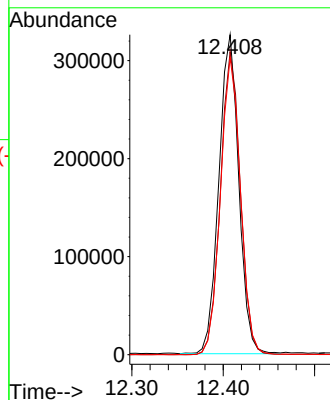
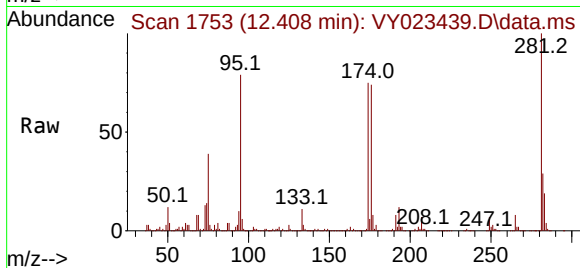




#62
4-Bromofluorobenzene
Concen: 55.237 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023439.D
Acq: 10 Oct 2025 15:13

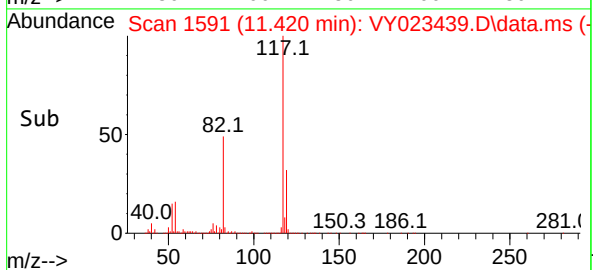
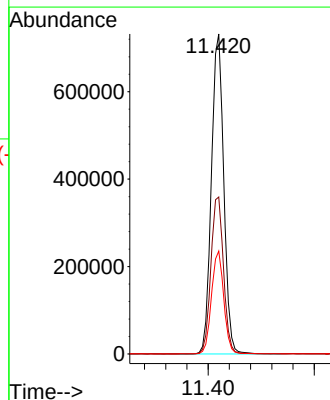
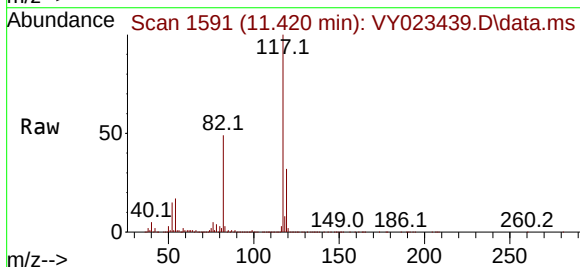
Instrument :
MSVOA_Y
ClientSampleId :
SED-06-0-2

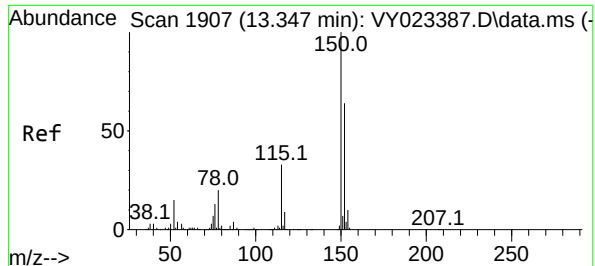
Tgt Ion: 95 Resp: 493644
Ion Ratio Lower Upper
95 100
174 94.9 0.0 192.8
176 93.6 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023439.D
Acq: 10 Oct 2025 15:13

Tgt Ion: 117 Resp: 1184267
Ion Ratio Lower Upper
117 100
82 49.0 41.0 61.4
119 32.1 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023439.D

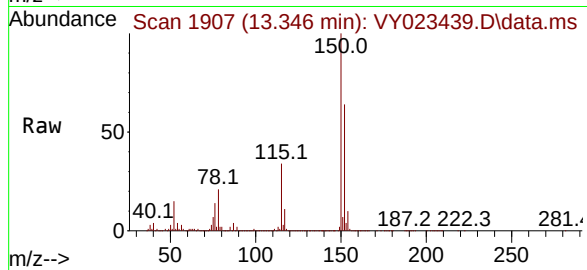
Acq: 10 Oct 2025 15:13

Instrument :

MSVOA_Y

ClientSampleId :

SED-06-0-2



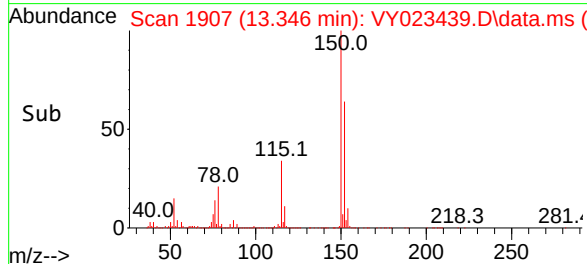
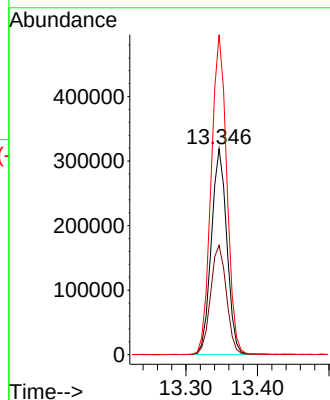
Tgt Ion:152 Resp: 480884

Ion	Ratio	Lower	Upper
-----	-------	-------	-------

152	100		
-----	-----	--	--

115	54.3	27.1	81.2
-----	------	------	------

150	156.7	0.0	347.4
-----	-------	-----	-------



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023439.D
 Acq On : 10 Oct 2025 15:13
 Operator : SY/MD
 Sample : Q3323-06
 Misc : 7.74g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-06-0-2

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\82Y100725S.M

Title : SW846 8260

Signal : TIC: VY023439.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.628	465	477	485	rBV2	51235	172710	2.93%	0.772%
2	4.714	485	491	504	rVB2	24955	79760	1.35%	0.357%
3	7.640	959	971	977	rBV	533664	1286552	21.83%	5.753%
4	7.713	977	983	999	rVB	731774	1659761	28.16%	7.422%
5	8.067	1031	1041	1057	rBV	382731	860256	14.59%	3.847%
6	8.616	1122	1131	1144	rBV	1264619	2534302	42.99%	11.333%
7	10.109	1368	1376	1385	rBV	2076098	3595399	61.00%	16.077%
8	11.420	1584	1591	1603	rBV	2033111	3351939	56.87%	14.989%
9	12.414	1746	1754	1764	rBV2	3200055	5894554	100.00%	26.358%
10	13.346	1901	1907	1921	rVB	1739493	2703119	45.86%	12.087%
11	13.883	1990	1995	2003	rVB	132314	224680	3.81%	1.005%

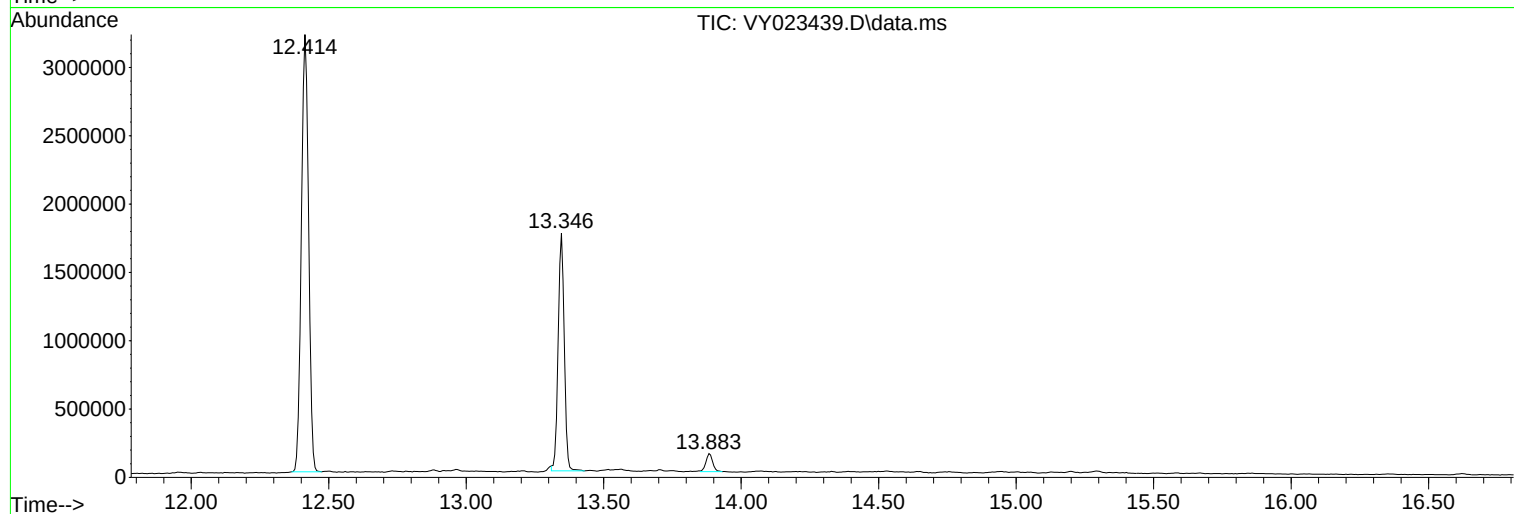
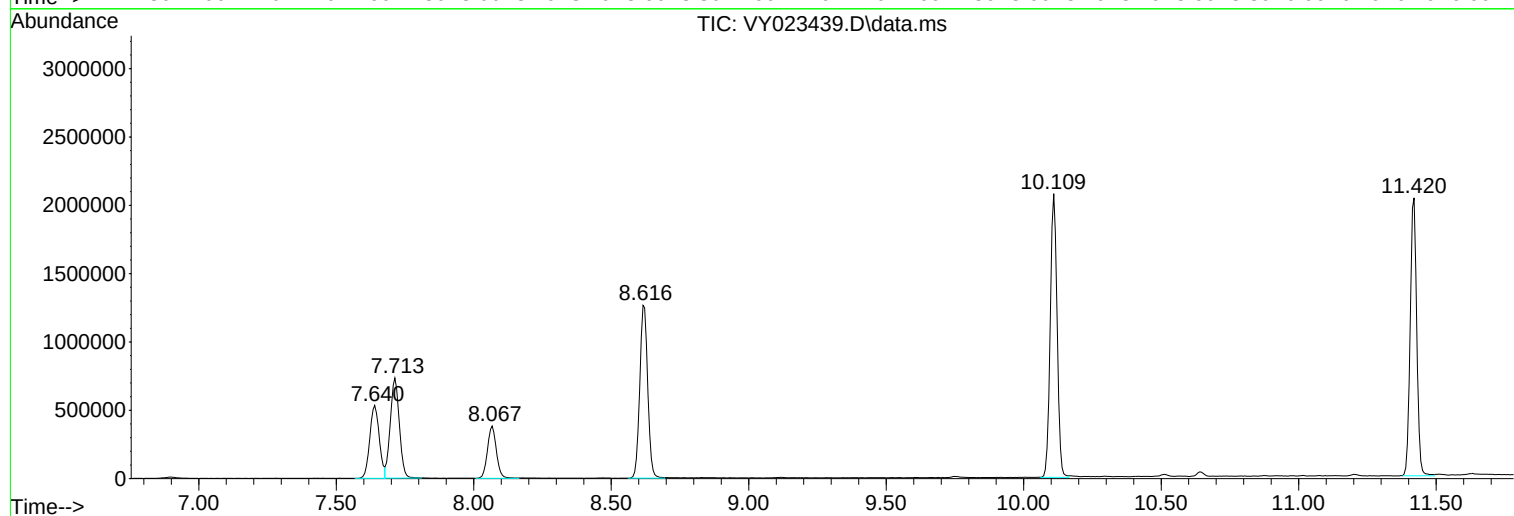
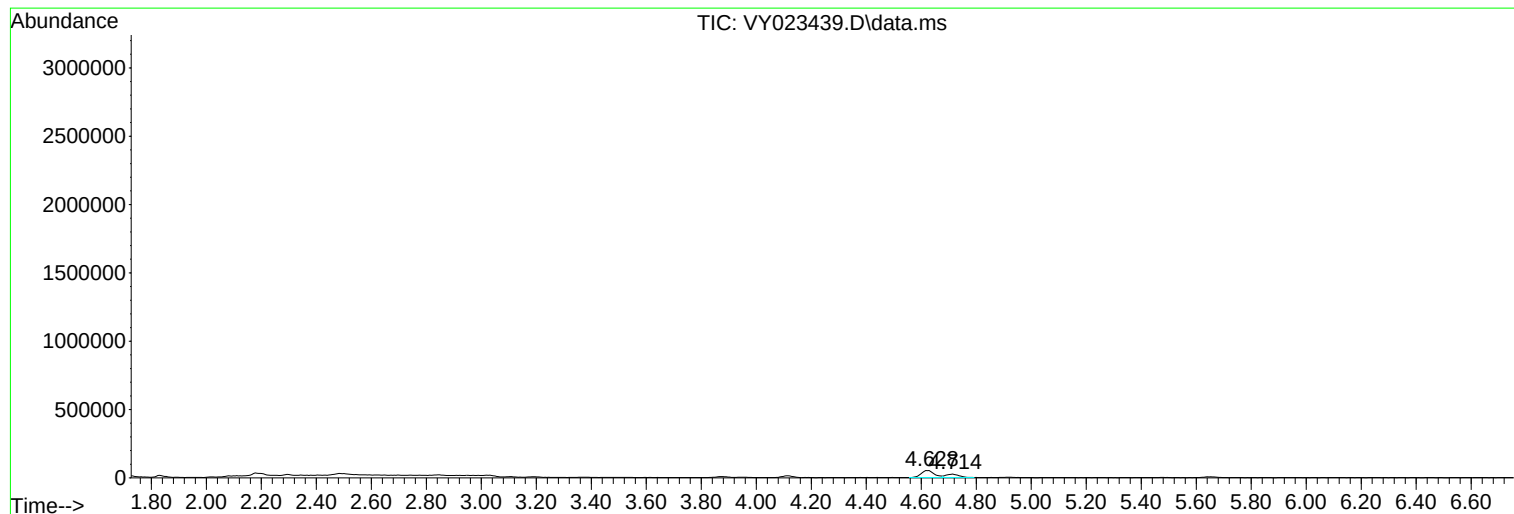
Sum of corrected areas: 22363032

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023439.D
Acq On : 10 Oct 2025 15:13
Operator : SY/MD
Sample : Q3323-06
Misc : 7.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-06-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023439.D
Acq On : 10 Oct 2025 15:13
Operator : SY/MD
Sample : Q3323-06
Misc : 7.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-06-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.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\VY101025\
Data File : VY023439.D
Acq On : 10 Oct 2025 15:13
Operator : SY/MD
Sample : Q3323-06
Misc : 7.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-06-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.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:	Langan Engineering and Environmental Services, Inc		Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace		Date Received:	10/09/25
Client Sample ID:	SED-07-0-2		SDG No.:	Q3323
Lab Sample ID:	Q3323-07		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	81.2
Sample Wt/Vol:	6.2	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023440.D	1	10/10/25 15:37	VY101025

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	0.78	U	0.78	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	0.99	U	0.99	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	24.8	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	6.00	J	3.50	9.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.85	U	0.85	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
110-82-7	Cyclohexane	0.78	U	0.78	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	24.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.96	U	0.96	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.74	U	0.74	5.00	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	5.00	ug/Kg
67-66-3	Chloroform	0.83	U	0.83	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.90	U	0.90	5.00	ug/Kg
71-43-2	Benzene	0.78	U	0.78	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.78	U	0.78	5.00	ug/Kg
79-01-6	Trichloroethene	0.80	U	0.80	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.90	U	0.90	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.77	U	0.77	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	24.8	ug/Kg
108-88-3	Toluene	0.77	U	0.77	5.00	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc			Date Collected:	10/09/25	
Project:	Con Edison Richmond Terrace			Date Received:	10/09/25	
Client Sample ID:	SED-07-0-2			SDG No.:	Q3323	
Lab Sample ID:	Q3323-07			Matrix:	SOIL	
Analytical Method:	8260D			% Solid:	81.2	
Sample Wt/Vol:	6.2	Units:	g	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023440.D	1	10/10/25 15:37	VY101025

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	0.91	U	0.91	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	24.8	ug/Kg
124-48-1	Dibromochloromethane	0.86	U	0.86	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.87	U	0.87	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	5.00	ug/Kg
108-90-7	Chlorobenzene	0.90	U	0.90	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	9.90	ug/Kg
95-47-6	o-Xylene	0.81	U	0.81	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.85	U	0.85	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.77	U	0.77	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	1.50	U	1.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	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	2.90	U	2.90	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	57.2		63 - 155	114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	51.8		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		17 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	590000	7.713			
540-36-3	1,4-Difluorobenzene	1120000	8.616			
3114-55-4	Chlorobenzene-d5	1050000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	373000	13.346			

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/09/25
Project:	Con Edison Richmond Terrace	Date Received:	10/09/25
Client Sample ID:	SED-07-0-2	SDG No.:	Q3323
Lab Sample ID:	Q3323-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.2
Sample Wt/Vol:	6.2 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023440.D	1	10/10/25 15:37	VY101025

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\VY101025\
 Data File : VY023440.D
 Acq On : 10 Oct 2025 15:37
 Operator : SY/MD
 Sample : Q3323-07
 Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-07-0-2

Quant Time: Oct 11 01:59:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

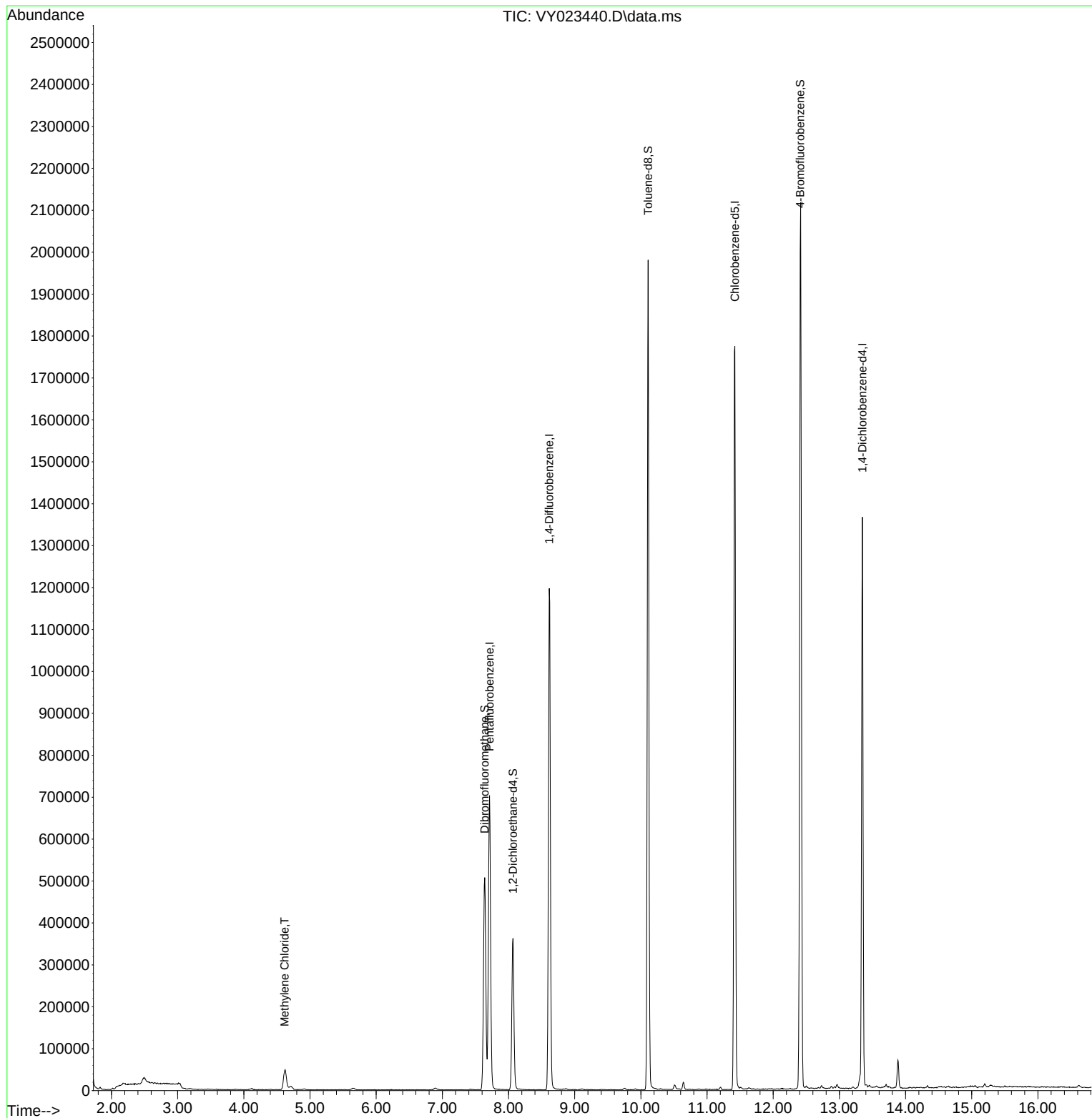
Internal Standards						
1) Pentafluorobenzene	7.713	168	590270	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1116913	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1047295	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	372887	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	282258	57.184	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	114.360%
35) Dibromofluoromethane	7.640	113	366367	53.384	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	106.760%
50) Toluene-d8	10.109	98	1323044	51.766	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	103.540%
62) 4-Bromofluorobenzene	12.408	95	400451	47.458	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	94.920%
Target Compounds						
20) Methylene Chloride	4.616	84	38450	6.051	ug/l	98

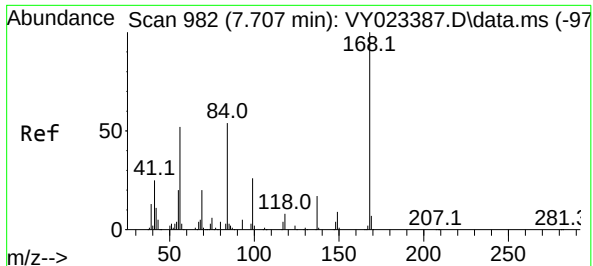
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023440.D
Acq On : 10 Oct 2025 15:37
Operator : SY/MD
Sample : Q3323-07
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-07-0-2

Quant Time: Oct 11 01:59:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

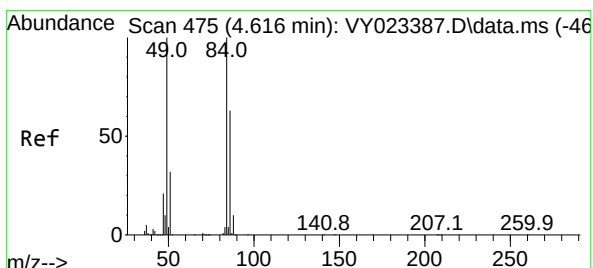
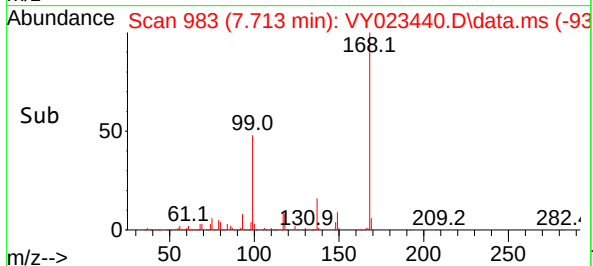
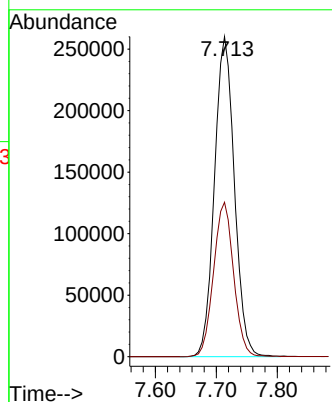
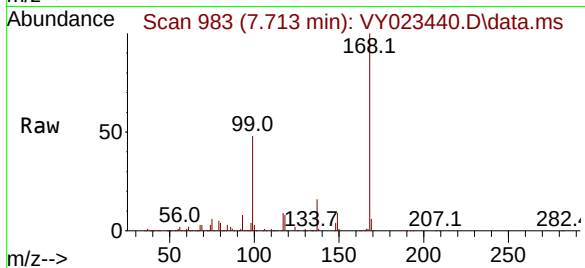




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023440.D
Acq: 10 Oct 2025 15:37

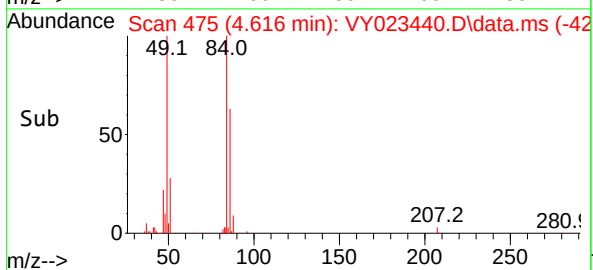
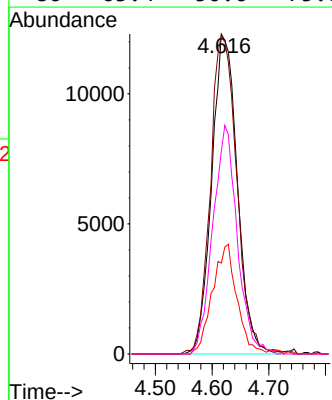
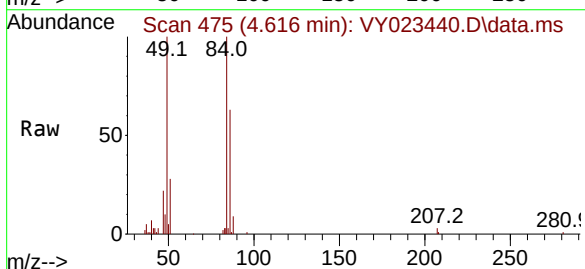
Instrument :
MSVOA_Y
ClientSampleId :
SED-07-0-2

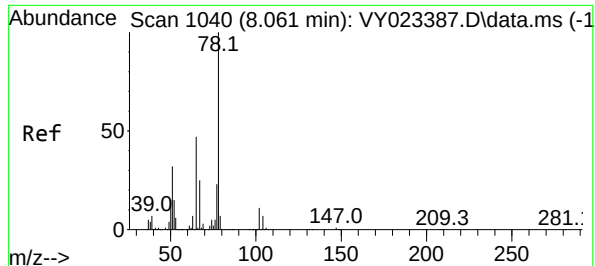
Tgt Ion:168 Resp: 590270
Ion Ratio Lower Upper
168 100
99 48.2 39.7 59.5



#20
Methylene Chloride
Concen: 6.051 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023440.D
Acq: 10 Oct 2025 15:37

Tgt Ion: 84 Resp: 38450
Ion Ratio Lower Upper
84 100
49 99.6 80.2 120.4
51 28.4 25.9 38.9
86 63.4 50.6 75.8





#33

1,2-Dichloroethane-d4

Concen: 57.184 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023440.D

Acq: 10 Oct 2025 15:37

Instrument :

MSVOA_Y

ClientSampleId :

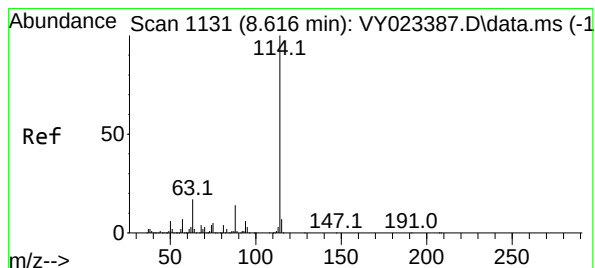
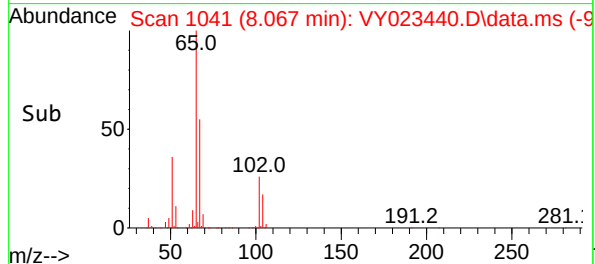
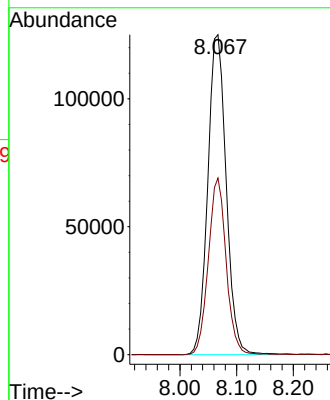
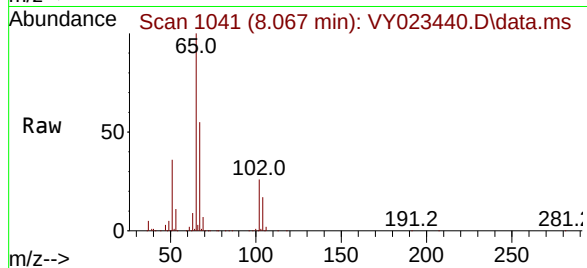
SED-07-0-2

Tgt Ion: 65 Resp: 282258

Ion Ratio Lower Upper

65 100

67 53.3 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023440.D

Acq: 10 Oct 2025 15:37

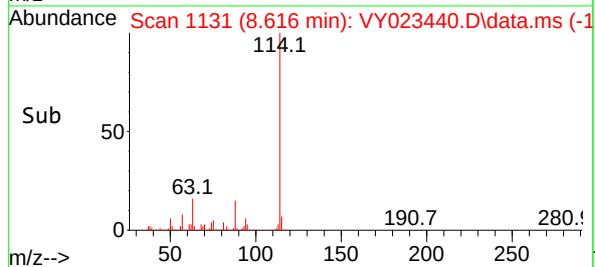
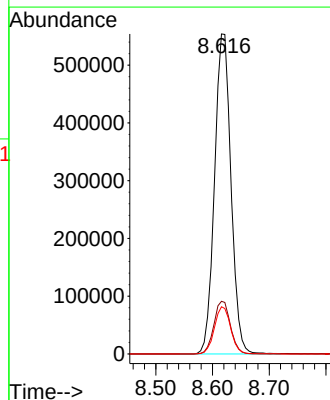
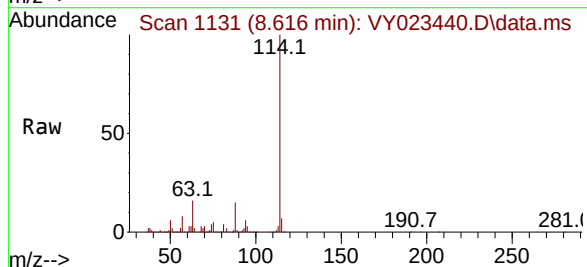
Tgt Ion: 114 Resp: 1116913

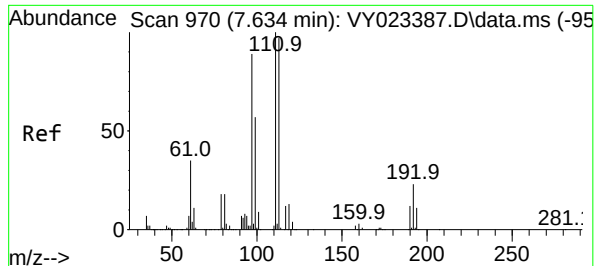
Ion Ratio Lower Upper

114 100

63 16.4 0.0 34.2

88 14.8 0.0 28.4





#35

Dibromofluoromethane

Concen: 53.384 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY023440.D

Acq: 10 Oct 2025 15:37

Instrument :

MSVOA_Y

ClientSampleId :

SED-07-0-2

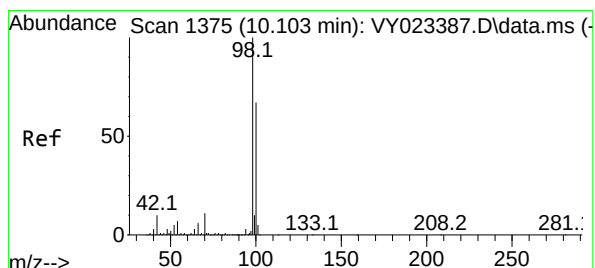
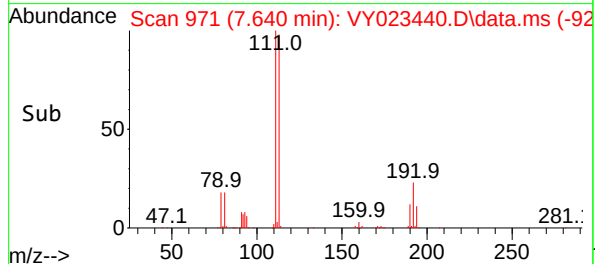
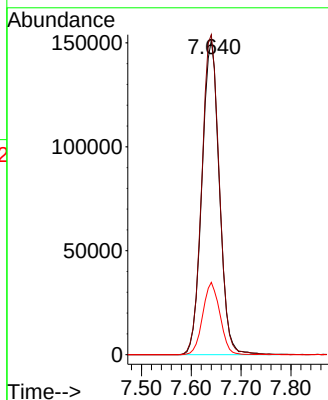
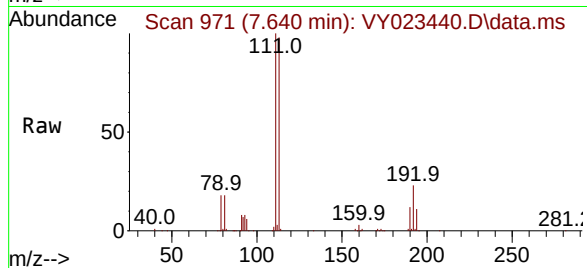
Tgt Ion:113 Resp: 366367

Ion Ratio Lower Upper

113 100

111 102.2 81.8 122.6

192 22.7 18.0 27.0



#50

Toluene-d8

Concen: 51.766 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023440.D

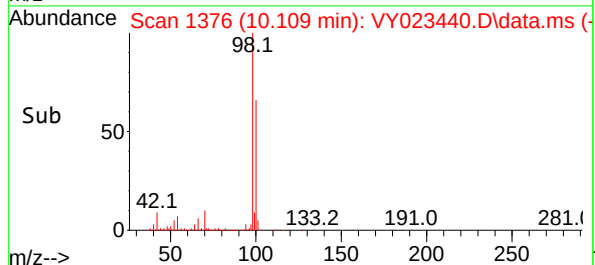
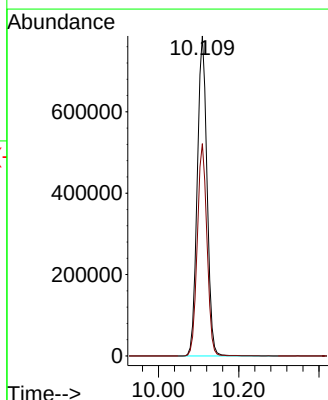
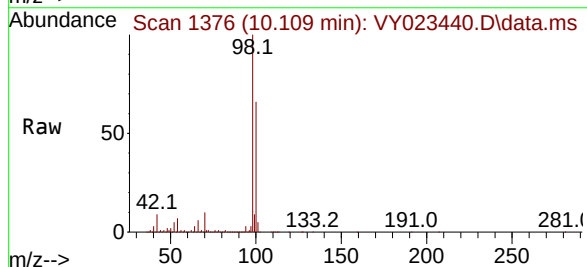
Acq: 10 Oct 2025 15:37

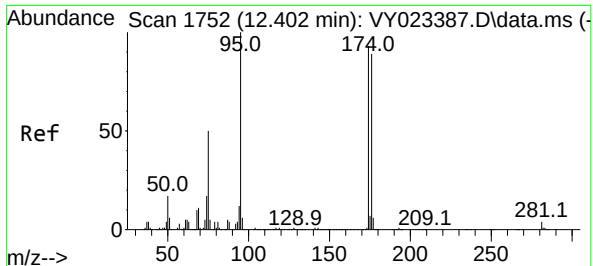
Tgt Ion: 98 Resp: 1323044

Ion Ratio Lower Upper

98 100

100 65.6 53.0 79.4

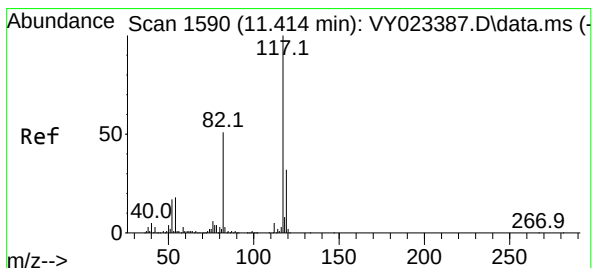
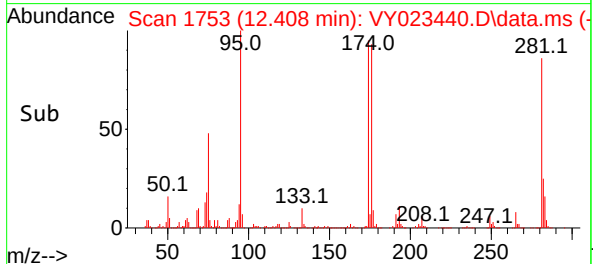
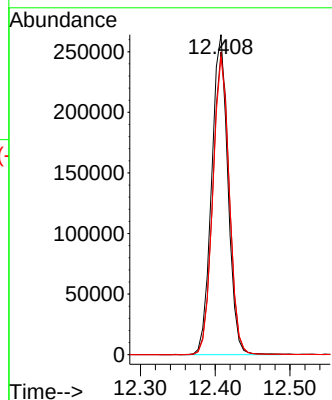
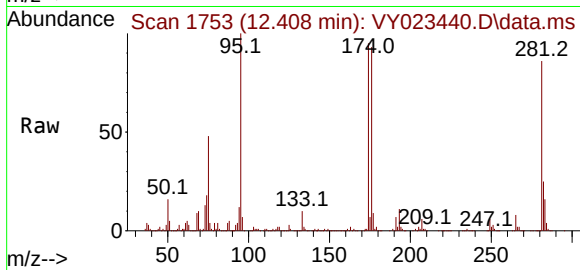




#62
4-Bromofluorobenzene
Concen: 47.458 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023440.D
Acq: 10 Oct 2025 15:37

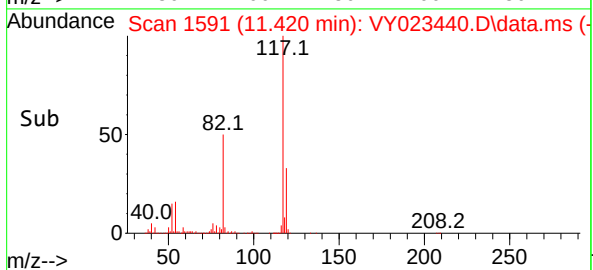
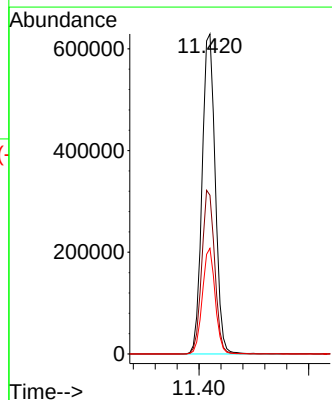
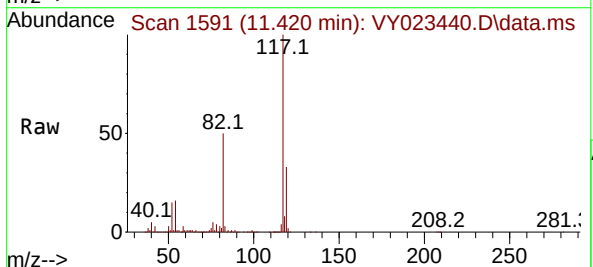
Instrument :
MSVOA_Y
ClientSampleId :
SED-07-0-2

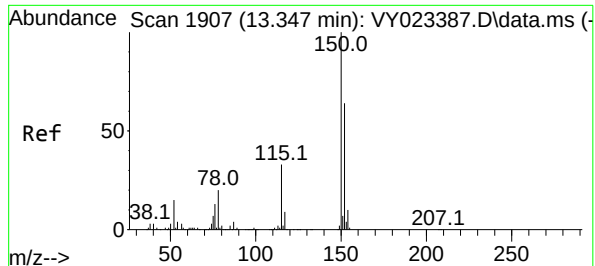
Tgt Ion: 95 Resp: 400451
Ion Ratio Lower Upper
95 100
174 95.4 0.0 192.8
176 94.2 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023440.D
Acq: 10 Oct 2025 15:37

Tgt Ion: 117 Resp: 1047295
Ion Ratio Lower Upper
117 100
82 49.6 41.0 61.4
119 33.0 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023440.D

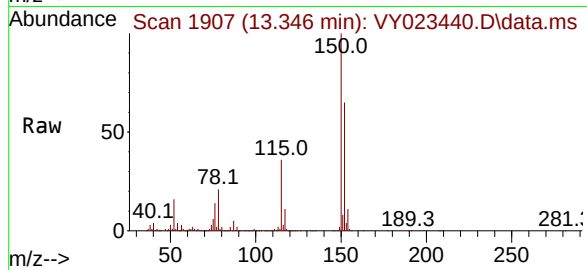
Acq: 10 Oct 2025 15:37

Instrument :

MSVOA_Y

ClientSampleId :

SED-07-0-2



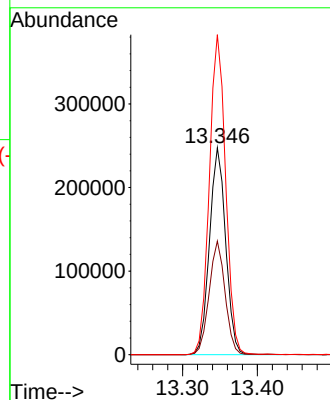
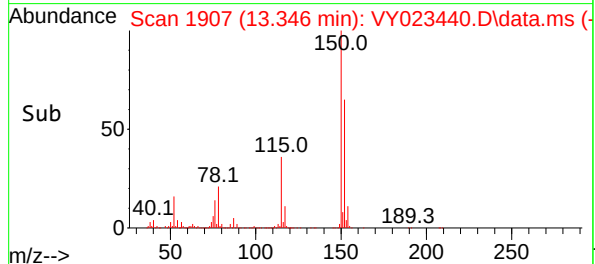
Tgt Ion:152 Resp: 372887

Ion Ratio Lower Upper

152 100

115 54.1 27.1 81.2

150 155.5 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023440.D
Acq On : 10 Oct 2025 15:37
Operator : SY/MD
Sample : Q3323-07
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-07-0-2

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\82Y100725S.M

Title : SW846 8260

Signal : TIC: VY023440.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	464	476	486	rBV2	47933	157084	3.98%	0.840%
2	7.640	960	971	977	rBV	506114	1231289	31.17%	6.586%
3	7.713	977	983	998	rVB	700755	1590731	40.26%	8.509%
4	8.067	1031	1041	1052	rBV	361327	806360	20.41%	4.313%
5	8.616	1122	1131	1148	rBV	1195831	2404137	60.85%	12.860%
6	10.109	1367	1376	1388	rBV	1979651	3350755	84.81%	17.924%
7	11.420	1582	1591	1602	rBV	1773222	2976704	75.34%	15.923%
8	12.414	1742	1754	1765	rBV2	2113538	3950849	100.00%	21.133%
9	13.346	1894	1907	1914	rBV	1361307	2114083	53.51%	11.308%
10	13.883	1989	1995	2002	rVB2	65843	112763	2.85%	0.603%

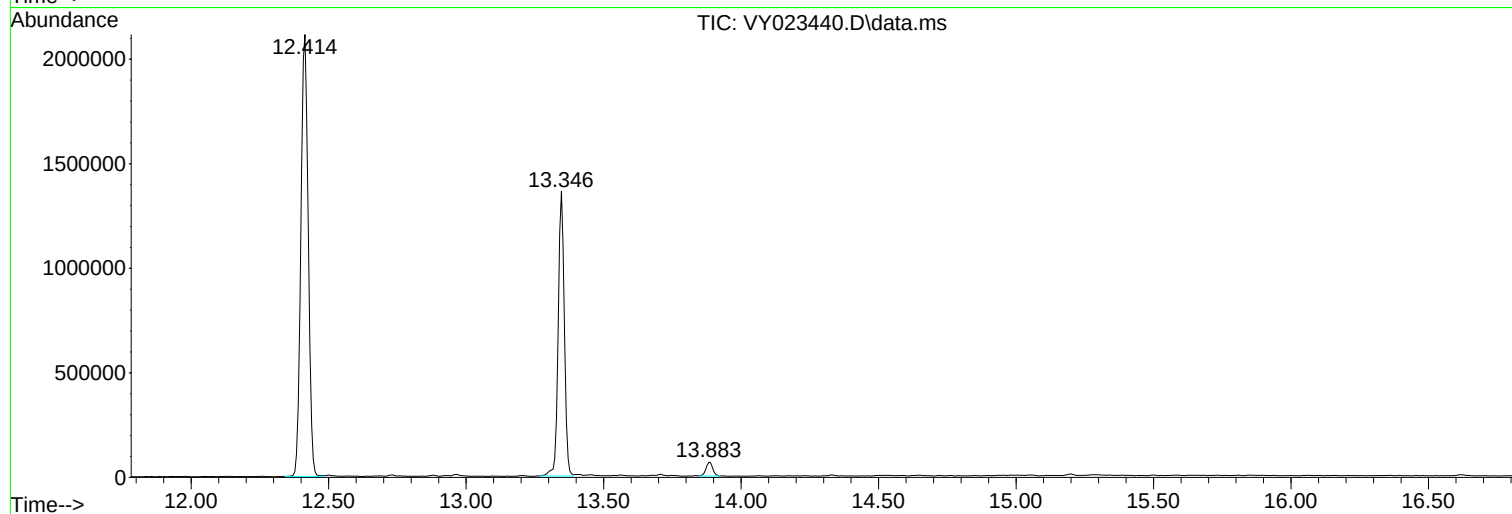
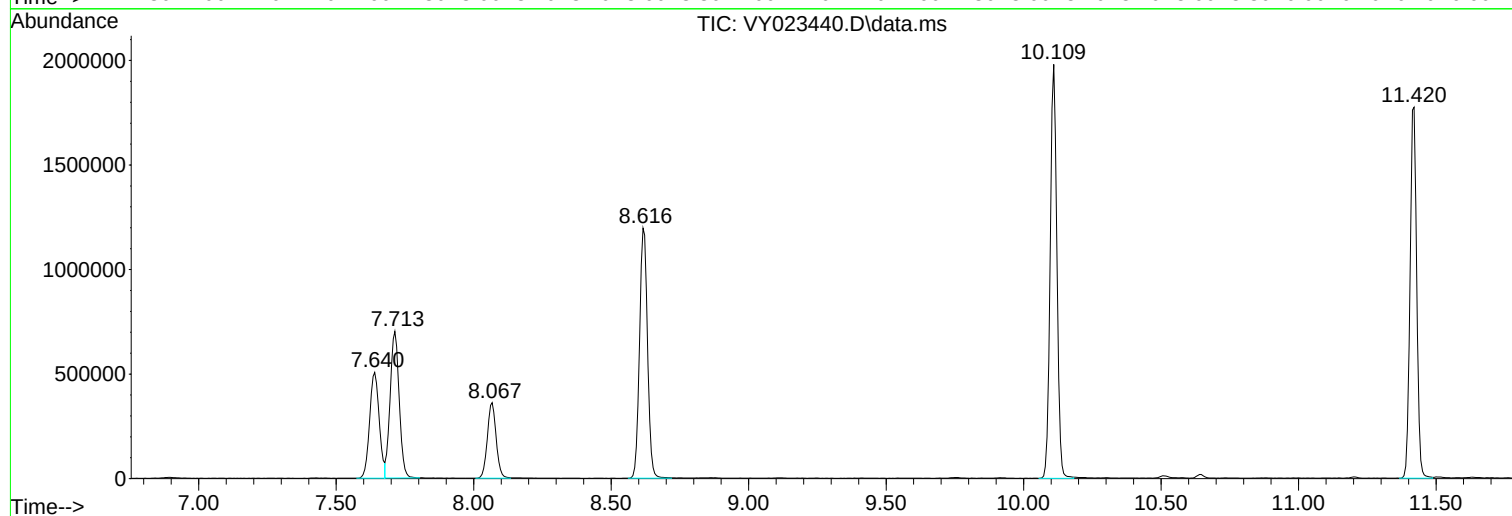
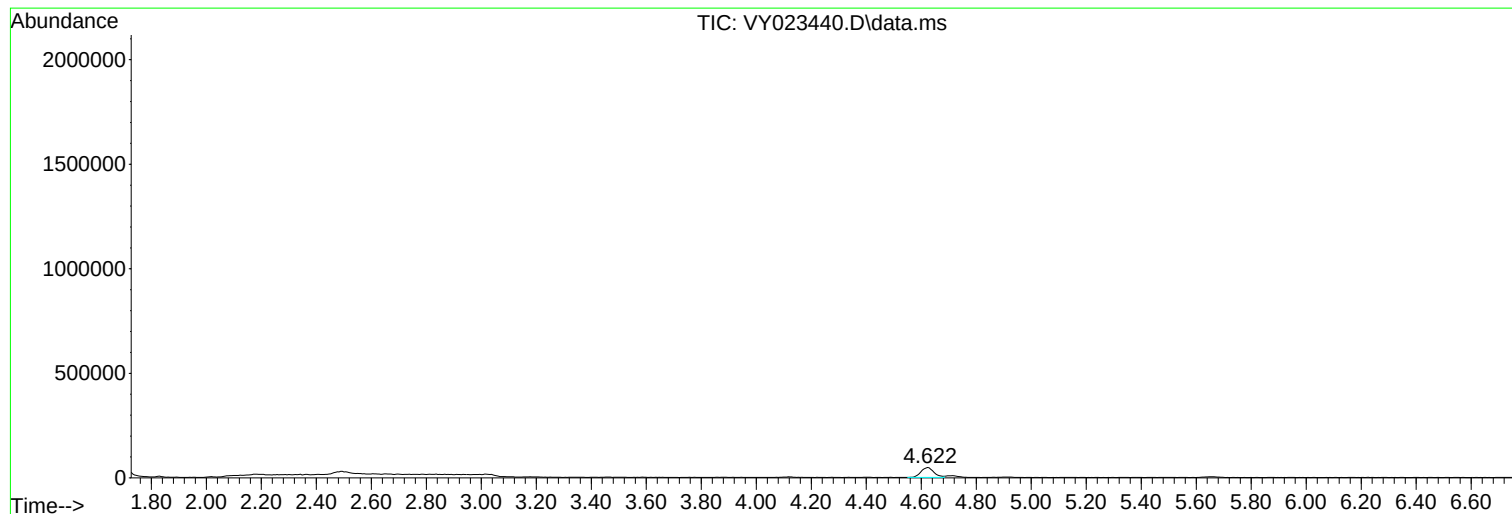
Sum of corrected areas: 18694755

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023440.D
Acq On : 10 Oct 2025 15:37
Operator : SY/MD
Sample : Q3323-07
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-07-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023440.D
Acq On : 10 Oct 2025 15:37
Operator : SY/MD
Sample : Q3323-07
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-07-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.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\VY101025\
Data File : VY023440.D
Acq On : 10 Oct 2025 15:37
Operator : SY/MD
Sample : Q3323-07
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SED-07-0-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: LANG01
 Lab Code: ACE SDG No.: Q3323
 Instrument ID: MSVOA_Y Calibration Date(s): 10/07/2025 10/07/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 09:17 12:32
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY023384.D		RRF010 = VY023385.D		RRF020 = VY023386.D			
		RRF050 = VY023387.D		RRF100 = VY023388.D		RRF150 = VY023389.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.397	0.399	0.400	0.321	0.310	0.333	0.360	12	
Chloromethane	0.518	0.557	0.512	0.449	0.438	0.467	0.490	9.4	
Vinyl Chloride	0.660	0.684	0.659	0.598	0.597	0.633	0.639	5.6	
Bromomethane	0.601	0.596	0.548	0.469	0.483	0.518	0.536	10.4	
Chloroethane	0.441	0.462	0.453	0.414	0.413	0.429	0.435	4.7	
Trichlorofluoromethane	0.884	0.920	0.946	0.842	0.850	0.877	0.887	4.5	
1,1,2-Trichlorotrifluoroethane	0.484	0.486	0.479	0.437	0.429	0.445	0.460	5.6	
1,1-Dichloroethene	0.449	0.475	0.456	0.427	0.426	0.443	0.446	4.1	
Acetone	0.128	0.117	0.094	0.084	0.085	0.089	0.100	18.7	
Carbon Disulfide	1.291	1.367	1.320	1.225	1.210	1.246	1.277	4.7	
Methyl tert-butyl Ether	1.006	1.075	1.075	1.020	1.091	1.165	1.072	5.3	
Methyl Acetate	0.244	0.265	0.260	0.245	0.266	0.286	0.261	6	
Methylene Chloride	0.625	0.634	0.576	0.458	0.463	0.473	0.538	15.4	
trans-1,2-Dichloroethene	0.494	0.504	0.507	0.470	0.478	0.494	0.491	2.9	
1,1-Dichloroethane	0.800	0.835	0.827	0.759	0.765	0.792	0.796	3.9	
Cyclohexane	0.797	0.717	0.697	0.643	0.644	0.676	0.696	8.3	
2-Butanone	0.133	0.134	0.115	0.105	0.115	0.126	0.122	9.6	
Carbon Tetrachloride	0.483	0.501	0.504	0.481	0.487	0.503	0.493	2.1	
cis-1,2-Dichloroethene	0.542	0.584	0.582	0.542	0.563	0.591	0.567	3.8	
Bromochloromethane	0.332	0.323	0.320	0.267	0.270	0.273	0.297	10.2	
Chloroform	0.886	0.912	0.901	0.835	0.842	0.874	0.875	3.5	
1,1,1-Trichloroethane	0.808	0.814	0.822	0.767	0.764	0.796	0.795	3.1	
Methylcyclohexane	0.491	0.486	0.537	0.527	0.554	0.583	0.530	7	
Benzene	1.253	1.302	1.322	1.259	1.281	1.312	1.288	2.2	
1,2-Dichloroethane	0.328	0.346	0.343	0.315	0.324	0.338	0.332	3.6	
Trichloroethene	0.380	0.381	0.386	0.367	0.372	0.376	0.377	1.8	
1,2-Dichloropropane	0.276	0.289	0.292	0.274	0.283	0.293	0.285	2.9	
Bromodichloromethane	0.440	0.463	0.459	0.439	0.449	0.468	0.453	2.7	
4-Methyl-2-Pentanone	0.141	0.159	0.161	0.159	0.180	0.196	0.166	11.6	
Toluene	0.777	0.818	0.855	0.827	0.855	0.885	0.836	4.5	

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: LANG01
 Lab Code: ACE SDG No.: Q3323
 Instrument ID: MSVOA_Y Calibration Date(s): 10/07/2025 10/07/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 09:17 12:32
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY023384.D		RRF010 = VY023385.D		RRF020 = VY023386.D			
		RRF050 = VY023387.D		RRF100 = VY023388.D		RRF150 = VY023389.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.357	0.380	0.390	0.385	0.415	0.438	0.394	7.2	
cis-1,3-Dichloropropene	0.424	0.460	0.465	0.455	0.481	0.505	0.465	5.9	
1,1,2-Trichloroethane	0.234	0.247	0.241	0.231	0.244	0.254	0.242	3.5	
2-Hexanone	0.108	0.117	0.110	0.112	0.126	0.138	0.119	9.9	
Dibromochloromethane	0.319	0.337	0.340	0.327	0.347	0.365	0.339	4.7	
1,2-Dibromoethane	0.215	0.229	0.231	0.223	0.237	0.249	0.231	5.2	
Tetrachloroethene	0.538	0.517	0.561	0.523	0.502	0.456	0.516	6.9	
Chlorobenzene	1.086	1.095	1.092	1.053	1.083	1.116	1.087	1.9	
Ethyl Benzene	1.606	1.711	1.753	1.777	1.824	1.891	1.760	5.5	
m/p-Xylenes	0.632	0.675	0.715	0.719	0.734	0.763	0.706	6.5	
o-Xylene	0.588	0.623	0.653	0.670	0.701	0.738	0.662	8.1	
Styrene	0.902	1.026	1.098	1.109	1.166	1.233	1.089	10.5	
Bromoform	0.225	0.242	0.238	0.230	0.244	0.262	0.240	5.4	
Isopropylbenzene	2.967	3.153	3.353	3.317	3.425	3.555	3.295	6.3	
1,1,2,2-Tetrachloroethane	0.530	0.548	0.502	0.499	0.543	0.611	0.539	7.6	
1,3-Dichlorobenzene	1.667	1.698	1.718	1.657	1.701	1.794	1.706	2.9	
1,4-Dichlorobenzene	1.703	1.703	1.694	1.624	1.653	1.732	1.685	2.3	
1,2-Dichlorobenzene	1.485	1.498	1.511	1.446	1.490	1.543	1.496	2.1	
1,2-Dibromo-3-Chloropropane	0.087	0.093	0.083	0.083	0.088	0.096	0.088	6.2	
1,2,4-Trichlorobenzene	0.846	0.867	0.901	0.918	1.007	1.054	0.932	8.7	
1,2,3-Trichlorobenzene	0.719	0.753	0.795	0.793	0.866	0.920	0.808	9.1	
1,2-Dichloroethane-d4	0.455	0.436	0.429	0.392	0.392	0.405	0.418	6.2	
Dibromofluoromethane	0.311	0.314	0.317	0.298	0.299	0.303	0.307	2.6	
Toluene-d8	1.132	1.170	1.177	1.129	1.122	1.135	1.144	2	
4-Bromofluorobenzene	0.401	0.370	0.373	0.365	0.372	0.386	0.378	3.5	

* 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 : 82Y100725S.M
 Title : SW846 8260
 Last Update : Wed Oct 08 05:12:50 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY023384.D 10 =VY023385.D 20 =VY023386.D 50 =VY023387.D 100 =VY023388.D 150 =VY023389.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.397	0.399	0.400	0.321	0.310	0.333	0.360	11.97
3) P	Chloromethane	0.518	0.557	0.512	0.449	0.438	0.467	0.490	9.45
4) C	Vinyl Chloride	0.660	0.684	0.659	0.598	0.597	0.633	0.639	5.59#
5) T	Bromomethane	0.601	0.596	0.548	0.469	0.483	0.518	0.536	10.42
6) T	Chloroethane	0.441	0.462	0.453	0.414	0.413	0.429	0.435	4.67
7) T	Trichlorofluor...	0.884	0.920	0.946	0.842	0.850	0.877	0.887	4.54
8) T	Diethyl Ether	0.240	0.239	0.236	0.215	0.224	0.237	0.232	4.42
9) T	1,1,2-Trichlor...	0.484	0.486	0.479	0.437	0.429	0.445	0.460	5.57
10) T	Methyl Iodide	0.404	0.503	0.518	0.538	0.547	0.562	0.512	11.09
11) T	Tert butyl alc...	0.033	0.037	0.030	0.025	0.029	0.033	0.031	13.08
12) CM	1,1-Dichloroet...	0.449	0.475	0.456	0.427	0.426	0.443	0.446	4.14#
13) T	Acrolein	0.045	0.043	0.042	0.042	0.044	0.048	0.044	5.27
14) T	Allyl chloride	0.540	0.555	0.546	0.526	0.535	0.560	0.544	2.33
15) T	Acrylonitrile	0.088	0.093	0.086	0.082	0.088	0.095	0.089	5.52
16) T	Acetone	0.128	0.117	0.094	0.084	0.085	0.089	0.100	18.67
17) T	Carbon Disulfide	1.291	1.367	1.320	1.225	1.210	1.246	1.277	4.74
18) T	Methyl Acetate	0.244	0.265	0.260	0.245	0.266	0.286	0.261	6.00
19) T	Methyl tert-bu...	1.006	1.075	1.075	1.020	1.091	1.165	1.072	5.30
20) T	Methylene Chlo...	0.625	0.634	0.576	0.458	0.463	0.473	0.538	15.41
21) T	trans-1,2-Dich...	0.494	0.504	0.507	0.470	0.478	0.494	0.491	2.95
22) T	Diisopropyl ether	1.107	1.238	1.255	1.163	1.195	1.257	1.202	4.95
23) T	Vinyl Acetate	0.594	0.646	0.651	0.625	0.667	0.722	0.651	6.65
24) P	1,1-Dichloroet...	0.800	0.835	0.827	0.759	0.765	0.792	0.796	3.90
25) T	2-Butanone	0.133	0.134	0.115	0.105	0.115	0.126	0.122	9.56
26) T	2,2-Dichloropr...	0.752	0.771	0.731	0.705	0.699	0.726	0.731	3.74
27) T	cis-1,2-Dichlo...	0.542	0.584	0.582	0.542	0.563	0.591	0.567	3.81
28) T	Bromochloromet...	0.332	0.323	0.320	0.267	0.270	0.273	0.297	10.22
29) T	Tetrahydrofuran	0.066	0.070	0.067	0.064	0.070	0.078	0.069	7.25
30) C	Chloroform	0.886	0.912	0.901	0.835	0.842	0.874	0.875	3.54#
31) T	Cyclohexane	0.797	0.717	0.697	0.643	0.644	0.676	0.696	8.27
32) T	1,1,1-Trichlor...	0.808	0.814	0.822	0.767	0.764	0.796	0.795	3.08
33) S	1,2-Dichloroet...	0.455	0.436	0.429	0.392	0.392	0.405	0.418	6.21
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.311	0.314	0.317	0.298	0.299	0.303	0.307	2.62
36) T	1,1-Dichloropr...	0.395	0.413	0.413	0.397	0.405	0.417	0.407	2.20
37) T	Ethyl Acetate	0.148	0.162	0.163	0.150	0.164	0.179	0.161	6.94
38) T	Carbon Tetrach...	0.483	0.501	0.504	0.481	0.487	0.503	0.493	2.14
39) T	Methylcyclohexane	0.491	0.486	0.537	0.527	0.554	0.583	0.530	7.03
40) TM	Benzene	1.253	1.302	1.322	1.259	1.281	1.312	1.288	2.22
41) T	Methacrylonitrile	0.082	0.085	0.091	0.080	0.089	0.096	0.087	7.09
42) TM	1,2-Dichloroet...	0.328	0.346	0.343	0.315	0.324	0.338	0.332	3.59
43) T	Isopropyl Acetate	0.297	0.313	0.313	0.302	0.335	0.369	0.321	8.32
44) TM	Trichloroethene	0.380	0.381	0.386	0.367	0.372	0.376	0.377	1.81
45) C	1,2-Dichloropr...	0.276	0.289	0.292	0.274	0.283	0.293	0.285	2.89#
46) T	Dibromomethane	0.172	0.182	0.183	0.173	0.181	0.188	0.180	3.43
47) T	Bromodichlorom...	0.440	0.463	0.459	0.439	0.449	0.468	0.453	2.70
48) T	Methyl methacr...	0.125	0.139	0.149	0.148	0.165	0.181	0.151	12.98
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	10.06
50) S	Toluene-d8	1.132	1.170	1.177	1.129	1.122	1.135	1.144	2.03
51) T	4-Methyl-2-Pen...	0.141	0.159	0.161	0.159	0.180	0.196	0.166	11.55
52) CM	Toluene	0.777	0.818	0.855	0.827	0.855	0.885	0.836	4.49#
53) T	t-1,3-Dichloro...	0.357	0.380	0.390	0.385	0.415	0.438	0.394	7.24
54) T	cis-1,3-Dichlo...	0.424	0.460	0.465	0.455	0.481	0.505	0.465	5.86
55) T	1,1,2-Trichlor...	0.234	0.247	0.241	0.231	0.244	0.254	0.242	3.52
56) T	Ethyl methacry...	0.219	0.248	0.262	0.279	0.321	0.345	0.279	16.80

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y100725S.M

57)	T	1,3-Dichloropr...	0.361	0.381	0.383	0.374	0.392	0.409	0.383	4.26
58)	T	2-Chloroethyl ...	0.093	0.112	0.112	0.129	0.145	0.159	0.125	19.35
59)	T	2-Hexanone	0.108	0.117	0.110	0.112	0.126	0.138	0.119	9.86
60)	T	Dibromochlorom...	0.319	0.337	0.340	0.327	0.347	0.365	0.339	4.69
61)	T	1,2-Dibromoethane	0.215	0.229	0.231	0.223	0.237	0.249	0.231	5.16
62)	S	4-Bromofluorob...	0.401	0.370	0.373	0.365	0.372	0.386	0.378	3.51
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.538	0.517	0.561	0.523	0.502	0.456	0.516	6.92
65)	PM	Chlorobenzene	1.086	1.095	1.092	1.053	1.083	1.116	1.087	1.89
66)	T	1,1,1,2-Tetrac...	0.388	0.389	0.390	0.373	0.384	0.402	0.388	2.44
67)	C	Ethyl Benzene	1.606	1.711	1.753	1.777	1.824	1.891	1.760	5.54#
68)	T	m/p-Xylenes	0.632	0.675	0.715	0.719	0.734	0.763	0.706	6.54
69)	T	o-Xylene	0.588	0.623	0.653	0.670	0.701	0.738	0.662	8.15
70)	T	Styrene	0.902	1.026	1.098	1.109	1.166	1.233	1.089	10.55
71)	P	Bromoform	0.225	0.242	0.238	0.230	0.244	0.262	0.240	5.41
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	2.967	3.153	3.353	3.317	3.425	3.555	3.295	6.30
74)	T	N-amyl acetate	0.477	0.535	0.556	0.581	0.665	0.738	0.592	15.95
75)	P	1,1,2,2-Tetrac...	0.530	0.548	0.502	0.499	0.543	0.611	0.539	7.60
76)	T	1,2,3-Trichlor...	0.406	0.399	0.484	0.433	0.455	0.469	0.441	7.76
77)	T	Bromobenzene	0.849	0.880	0.885	0.845	0.877	0.921	0.876	3.14
78)	T	n-propylbenzene	3.373	3.676	3.906	3.883	3.955	4.086	3.813	6.64
79)	T	2-Chlorotoluene	2.095	2.208	2.282	2.227	2.249	2.338	2.233	3.66
80)	T	1,3,5-Trimethy...	2.309	2.557	2.736	2.706	2.772	2.896	2.663	7.70
81)	T	trans-1,4-Dich...	0.171	0.175	0.176	0.169	0.185	0.203	0.180	7.04
82)	T	4-Chlorotoluene	2.173	2.266	2.362	2.276	2.316	2.404	2.300	3.52
83)	T	tert-Butylbenzene	2.199	2.363	2.465	2.522	2.533	2.668	2.458	6.55
84)	T	1,2,4-Trimethy...	2.301	2.552	2.701	2.706	2.782	2.903	2.657	7.86
85)	T	sec-Butylbenzene	3.175	3.388	3.571	3.583	3.664	3.778	3.527	6.08
86)	T	p-Isopropyltol...	2.575	2.804	3.032	3.087	3.183	3.334	3.003	9.09
87)	T	1,3-Dichlorobe...	1.667	1.698	1.718	1.657	1.701	1.794	1.706	2.85
88)	T	1,4-Dichlorobe...	1.703	1.703	1.694	1.624	1.653	1.732	1.685	2.33
89)	T	n-Butylbenzene	2.279	2.428	2.626	2.682	2.778	2.904	2.616	8.76
90)	T	Hexachloroethane	0.667	0.631	0.647	0.625	0.643	0.662	0.646	2.54
91)	T	1,2-Dichlorobe...	1.485	1.498	1.511	1.446	1.490	1.543	1.496	2.13
92)	T	1,2-Dibromo-3-...	0.087	0.093	0.083	0.083	0.088	0.096	0.088	6.18
93)	T	1,2,4-Trichlor...	0.846	0.867	0.901	0.918	1.007	1.054	0.932	8.75
94)	T	Hexachlorobuta...	0.590	0.571	0.572	0.577	0.587	0.590	0.581	1.52
95)	T	Naphthalene	1.206	1.281	1.346	1.466	1.722	1.887	1.485	17.98
96)	T	1,2,3-Trichlor...	0.719	0.753	0.795	0.793	0.866	0.920	0.808	9.14

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023384.D
 Acq On : 07 Oct 2025 09:17
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:39:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 04:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	585717	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	882488	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	753398	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	378104	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	26670	5.258	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	10.520%#		
35) Dibromofluoromethane	7.634	113	27455	5.126	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	10.260%#		
50) Toluene-d8	10.103	98	99905	4.946	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	9.900%#		
62) 4-Bromofluorobenzene	12.401	95	35355	5.548	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	11.100%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	23245	5.038	ug/l	92
3) Chloromethane	2.074	50	30346	4.627	ug/l	94
4) Vinyl Chloride	2.202	62	38657	4.668	ug/l	95
5) Bromomethane	2.598	94	35214	5.184	ug/l	94
6) Chloroethane	2.732	64	25848	4.597	ug/l	98
7) Trichlorofluoromethane	3.055	101	51797	4.869	ug/l	98
8) Diethyl Ether	3.452	74	14079	5.060	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	28368	4.989	ug/l	99
10) Methyl Iodide	4.007	142	23692	3.606	ug/l	99
11) Tert butyl alcohol	4.854	59	9774	32.746	ug/l #	80
12) 1,1-Dichloroethene	3.787	96	26290	4.806	ug/l	94
13) Acrolein	3.653	56	13176	26.054	ug/l	100
14) Allyl chloride	4.385	41	31614	4.616	ug/l	98
15) Acrylonitrile	5.055	53	25891	23.754	ug/l	99
16) Acetone	3.866	43	37573	32.940	ug/l	96
17) Carbon Disulfide	4.104	76	75645	4.432	ug/l	99
18) Methyl Acetate	4.391	43	14279	4.926	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	58919	4.600	ug/l	95
20) Methylene Chloride	4.616	84	36598	5.917	ug/l	100
21) trans-1,2-Dichloroethene	5.110	96	28923	4.754	ug/l	99
22) Diisopropyl ether	6.018	45	64833	4.269	ug/l	94
23) Vinyl Acetate	5.964	43	173851	20.824	ug/l	99
24) 1,1-Dichloroethane	5.909	63	46850	4.679	ug/l	100
25) 2-Butanone	6.890	43	38990	27.656	ug/l	93
26) 2,2-Dichloropropane	6.884	77	44062	4.953	ug/l	98
27) cis-1,2-Dichloroethene	6.884	96	31743	4.600	ug/l	98
28) Bromochloromethane	7.244	49	19445	5.006	ug/l	99
29) Tetrahydrofuran	7.262	42	19296	23.059	ug/l	98
30) Chloroform	7.421	83	51887	4.806	ug/l	97
31) Cyclohexane	7.707	56	46675	5.279	ug/l #	79
32) 1,1,1-Trichloroethane	7.616	97	47305	4.881	ug/l	99
36) 1,1-Dichloropropene	7.835	75	34888	4.617	ug/l	98
37) Ethyl Acetate	6.982	43	13082	4.379	ug/l #	93
38) Carbon Tetrachloride	7.817	117	42654	4.859	ug/l	95
39) Methylcyclohexane	9.109	83	43329	4.479	ug/l	98
40) Benzene	8.079	78	110551	4.693	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023384.D
 Acq On : 07 Oct 2025 09:17
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:39:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 04:39:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	7226m	4.658	ug/l	
42) 1,2-Dichloroethane	8.158	62	28940	4.828	ug/l	100
43) Isopropyl Acetate	8.201	43	26166	4.503	ug/l	99
44) Trichloroethene	8.859	130	33564	5.077	ug/l	99
45) 1,2-Dichloropropane	9.140	63	24358	4.595	ug/l	92
46) Dibromomethane	9.231	93	15179	4.682	ug/l	97
47) Bromodichloromethane	9.420	83	38813	4.756	ug/l	93
48) Methyl methacrylate	9.219	41	11038	4.071	ug/l	98
49) 1,4-Dioxane	9.219	88	3255	96.953	ug/l #	86
51) 4-Methyl-2-Pentanone	9.999	43	62279	20.925	ug/l	98
52) Toluene	10.170	92	68550	4.585	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	31477	4.491	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	37392	4.463	ug/l	96
55) 1,1,2-Trichloroethane	10.572	97	20641	4.786	ug/l	97
56) Ethyl methacrylate	10.438	69	19324	3.891	ug/l	94
57) 1,3-Dichloropropane	10.719	76	31831	4.560	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.713	63	41054m	18.894	ug/l	
59) 2-Hexanone	10.761	43	47778	23.185	ug/l	97
60) Dibromochloromethane	10.908	129	28135	4.783	ug/l	97
61) 1,2-Dibromoethane	11.017	107	18957	4.673	ug/l	97
64) Tetrachloroethene	10.646	164	40570	5.383	ug/l	98
65) Chlorobenzene	11.444	112	81802	4.997	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	29222	5.075	ug/l	97
67) Ethyl Benzene	11.517	91	121005	4.529	ug/l	99
68) m/p-Xylenes	11.633	106	95176	8.887	ug/l	100
69) o-Xylene	11.956	106	44280	4.466	ug/l	98
70) Styrene	11.969	104	67960	4.152	ug/l	99
71) Bromoform	12.133	173	16988	4.929	ug/l #	99
73) Isopropylbenzene	12.255	105	112194	4.455	ug/l	99
74) N-amyl acetate	12.066	43	18041	3.833	ug/l #	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	20052	4.773	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	15359m	4.118	ug/l	
77) Bromobenzene	12.529	156	32106	4.967	ug/l	99
78) n-propylbenzene	12.596	91	127521	4.305	ug/l	99
79) 2-Chlorotoluene	12.676	91	79199	4.631	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	87297	4.264	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	6474	4.680	ug/l	98
82) 4-Chlorotoluene	12.779	91	82155	4.600	ug/l	100
83) tert-Butylbenzene	12.999	119	83151	4.457	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	86988	4.294	ug/l	99
85) sec-Butylbenzene	13.176	105	120061	4.443	ug/l	99
86) p-Isopropyltoluene	13.291	119	97377	4.264	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	63027	4.936	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	64389	5.085	ug/l	95
89) n-Butylbenzene	13.615	91	86179	4.274	ug/l	99
90) Hexachloroethane	13.877	117	25204	5.084	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	56167	5.041	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3305	4.964	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	32000	4.875	ug/l	99
94) Hexachlorobutadiene	15.023	225	22316	5.456	ug/l	99
95) Naphthalene	15.145	128	45598	4.360	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	27176	4.772	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023384.D
Acq On : 07 Oct 2025 09:17
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

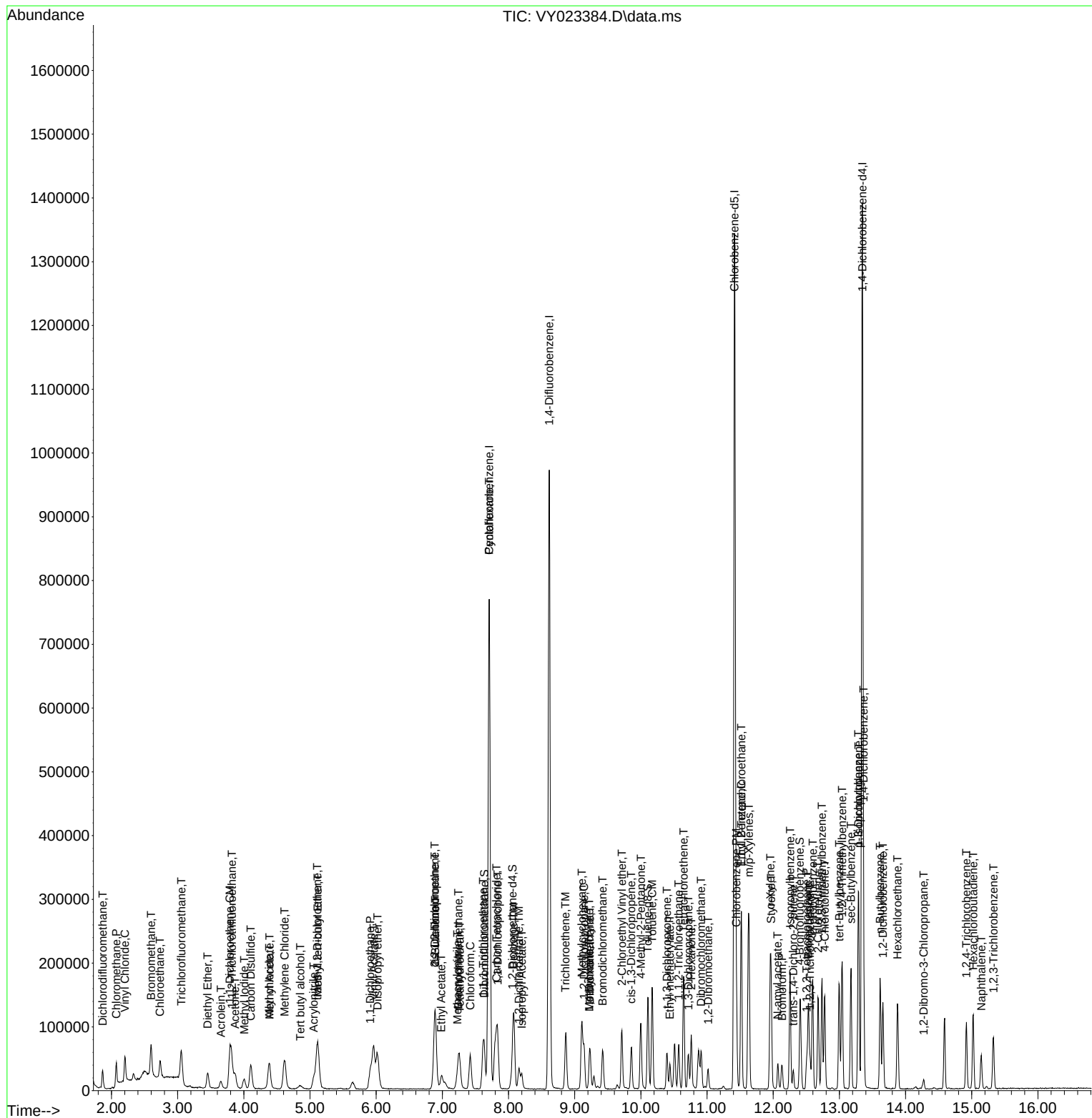
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023385.D
 Acq On : 07 Oct 2025 10:02
 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 :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:40:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 04:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	559828	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	847077	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	736152	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	374998	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	48826	10.071	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.140%#		
35) Dibromofluoromethane	7.634	113	53279	10.364	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.720%#		
50) Toluene-d8	10.109	98	198242	10.225	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	20.460%#		
62) 4-Bromofluorobenzene	12.401	95	62601	10.235	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	20.460%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	44666	10.129	ug/l	97
3) Chloromethane	2.068	50	62413	9.957	ug/l	97
4) Vinyl Chloride	2.202	62	76587	9.676	ug/l	99
5) Bromomethane	2.592	94	66689	10.271	ug/l	90
6) Chloroethane	2.732	64	51757	9.632	ug/l	92
7) Trichlorofluoromethane	3.055	101	102972	10.128	ug/l	99
8) Diethyl Ether	3.458	74	26719	10.047	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	54405	10.011	ug/l	99
10) Methyl Iodide	4.007	142	56313	8.967	ug/l	99
11) Tert butyl alcohol	4.854	59	20540	71.998	ug/l #	89
12) 1,1-Dichloroethene	3.793	96	53191	10.173	ug/l	98
13) Acrolein	3.653	56	24014	49.681	ug/l	94
14) Allyl chloride	4.385	41	62154	9.494	ug/l	99
15) Acrylonitrile	5.061	53	51937	49.854	ug/l	99
16) Acetone	3.872	43	65410	59.997	ug/l	94
17) Carbon Disulfide	4.104	76	153055	9.382	ug/l	100
18) Methyl Acetate	4.391	43	29725	10.728	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	120347	9.830	ug/l	100
20) Methylene Chloride	4.616	84	71034	12.016	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	56465	9.710	ug/l	97
22) Diisopropyl ether	6.024	45	138589	9.547	ug/l	98
23) Vinyl Acetate	5.963	43	361478	45.300	ug/l	99
24) 1,1-Dichloroethane	5.915	63	93512	9.772	ug/l	98
25) 2-Butanone	6.890	43	75171	55.784	ug/l	92
26) 2,2-Dichloropropane	6.890	77	86325	10.153	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	65335	9.905	ug/l	99
28) Bromochloromethane	7.244	49	36132	9.733	ug/l	99
29) Tetrahydrofuran	7.262	42	38990	48.749	ug/l	99
30) Chloroform	7.421	83	102058	9.890	ug/l	99
31) Cyclohexane	7.701	56	80245	9.495	ug/l #	88
32) 1,1,1-Trichloroethane	7.622	97	91186	9.844	ug/l	99
36) 1,1-Dichloropropene	7.835	75	69913	9.639	ug/l	99
37) Ethyl Acetate	6.988	43	27388	9.551	ug/l	96
38) Carbon Tetrachloride	7.817	117	84799	10.065	ug/l	99
39) Methylcyclohexane	9.109	83	82275	8.860	ug/l	95
40) Benzene	8.079	78	220629	9.758	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023385.D
 Acq On : 07 Oct 2025 10:02
 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 :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:40:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M

Quant Title : SW846 8260

QLast Update : Wed Oct 08 04:39:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	14344	9.632	ug/l #	92
42) 1,2-Dichloroethane	8.158	62	58541	10.174	ug/l	99
43) Isopropyl Acetate	8.201	43	53042	9.510	ug/l	98
44) Trichloroethene	8.865	130	64537	10.171	ug/l	96
45) 1,2-Dichloropropane	9.140	63	49009	9.632	ug/l	100
46) Dibromomethane	9.231	93	30780	9.890	ug/l	99
47) Bromodichloromethane	9.426	83	78392	10.007	ug/l	99
48) Methyl methacrylate	9.225	41	23484	9.023	ug/l	97
49) 1,4-Dioxane	9.231	88	6822	211.693	ug/l	94
51) 4-Methyl-2-Pentanone	9.999	43	134746	47.165	ug/l	99
52) Toluene	10.170	92	138662	9.661	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	64315	9.559	ug/l	96
54) cis-1,3-Dichloropropene	9.853	75	77905	9.687	ug/l	98
55) 1,1,2-Trichloroethane	10.572	97	41881	10.118	ug/l	92
56) Ethyl methacrylate	10.438	69	42096	8.830	ug/l	98
57) 1,3-Dichloropropane	10.719	76	64537	9.633	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	94970m	45.535	ug/l	
59) 2-Hexanone	10.761	43	99175	50.138	ug/l	96
60) Dibromochloromethane	10.908	129	57151	10.123	ug/l	97
61) 1,2-Dibromoethane	11.011	107	38861	9.979	ug/l	99
64) Tetrachloroethene	10.646	164	76110	10.335	ug/l	98
65) Chlorobenzene	11.438	112	161155	10.074	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.517	131	57233	10.173	ug/l	98
67) Ethyl Benzene	11.517	91	251958	9.651	ug/l	98
68) m/p-Xylenes	11.627	106	198866	19.004	ug/l	99
69) o-Xylene	11.950	106	91710	9.467	ug/l	100
70) Styrene	11.969	104	151094	9.446	ug/l	99
71) Bromoform	12.133	173	35681	10.595	ug/l #	94
73) Isopropylbenzene	12.249	105	236489	9.467	ug/l	99
74) N-amyl acetate	12.066	43	40098	8.590	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	41130	9.871	ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	29944m	8.095	ug/l	
77) Bromobenzene	12.529	156	66002	10.295	ug/l	99
78) n-propylbenzene	12.590	91	275671	9.384	ug/l	100
79) 2-Chlorotoluene	12.676	91	165582	9.762	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	191799	9.445	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	13110	9.556	ug/l	99
82) 4-Chlorotoluene	12.773	91	169968	9.595	ug/l	100
83) tert-Butylbenzene	12.993	119	177250	9.579	ug/l	99
84) 1,2,4-Trimethylbenzene	13.041	105	191423	9.528	ug/l	98
85) sec-Butylbenzene	13.170	105	254134	9.483	ug/l	100
86) p-Isopropyltoluene	13.285	119	210320	9.287	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	127377	10.058	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	127757	10.172	ug/l	98
89) n-Butylbenzene	13.615	91	182116	9.107	ug/l	98
90) Hexachloroethane	13.877	117	47355	9.630	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	112325	10.165	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7005	10.608	ug/l	94
93) 1,2,4-Trichlorobenzene	14.919	180	65050	9.992	ug/l	98
94) Hexachlorobutadiene	15.023	225	42813	10.554	ug/l	97
95) Naphthalene	15.139	128	96092	9.264	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	56499	10.004	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023385.D
Acq On : 07 Oct 2025 10:02
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 :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:40:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 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

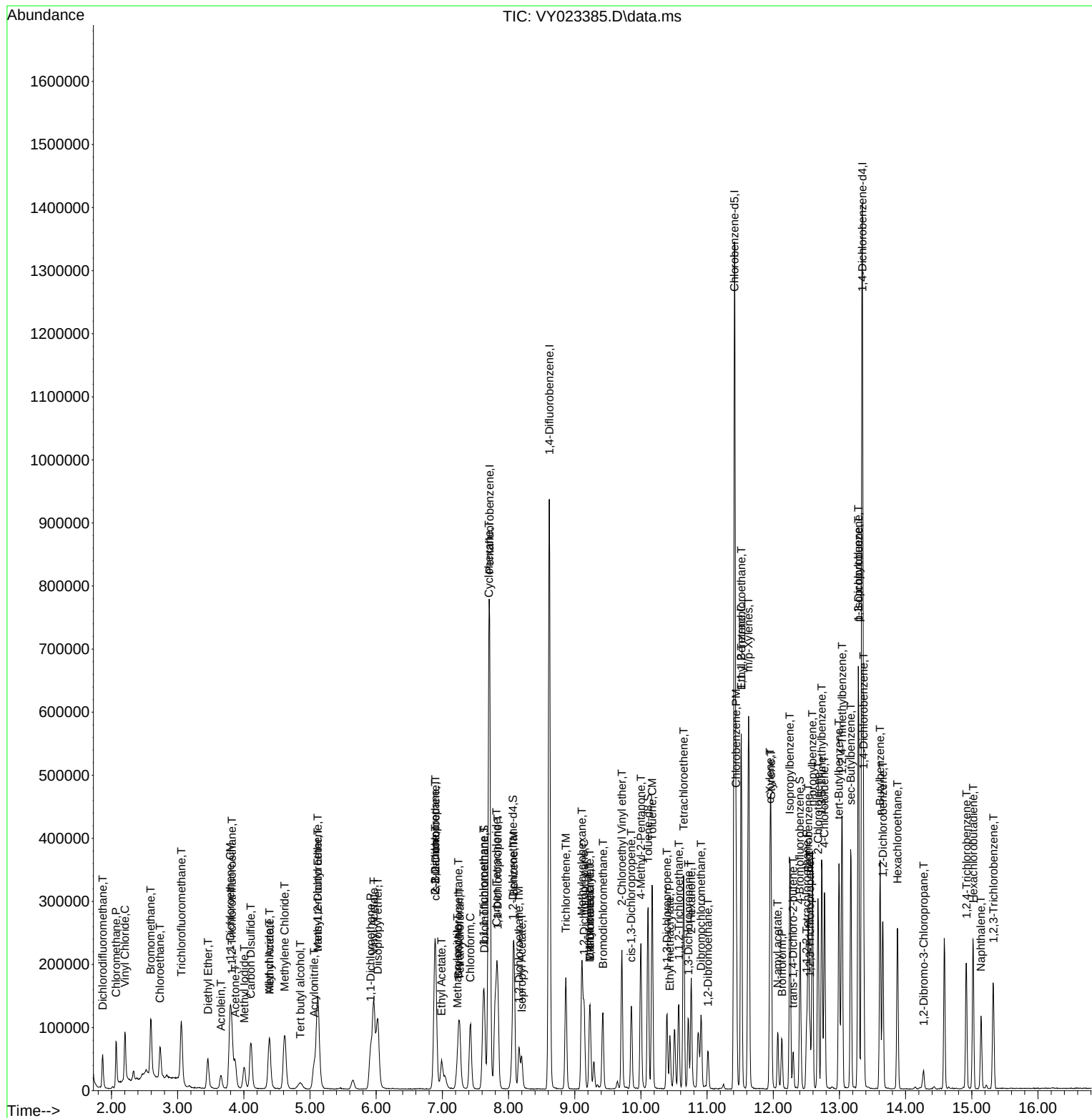
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023385.D
Acq On : 07 Oct 2025 10:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Oct 08 04:40:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023386.D
 Acq On : 07 Oct 2025 11:24
 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 : Semsettin Yesilyurt 10/10/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:41:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 04:39:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	574363	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	851961	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	746872	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	382604	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	98481	19.798	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	39.600%#		
35) Dibromofluoromethane	7.634	113	108034	20.895	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	41.800%#		
50) Toluene-d8	10.103	98	401067	20.568	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	41.140%#		
62) 4-Bromofluorobenzene	12.401	95	127216	20.680	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	41.360%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	91924	20.318	ug/l	98
3) Chloromethane	2.074	50	117585	18.284	ug/l	100
4) Vinyl Chloride	2.202	62	151460	18.652	ug/l	99
5) Bromomethane	2.586	94	125948	18.907	ug/l	97
6) Chloroethane	2.732	64	103973	18.859	ug/l	94
7) Trichlorofluoromethane	3.049	101	217452	20.846	ug/l	99
8) Diethyl Ether	3.452	74	54124	19.837	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.811	101	109936	19.718	ug/l	99
10) Methyl Iodide	4.007	142	119083	18.482	ug/l	99
11) Tert butyl alcohol	4.854	59	34346	117.345	ug/l	98
12) 1,1-Dichloroethene	3.787	96	104778	19.531	ug/l	98
13) Acrolein	3.653	56	48115	97.023	ug/l	98
14) Allyl chloride	4.384	41	125424	18.674	ug/l	98
15) Acrylonitrile	5.055	53	99018	92.641	ug/l	100
16) Acetone	3.866	43	108209	96.742	ug/l	96
17) Carbon Disulfide	4.104	76	303284	18.121	ug/l	99
18) Methyl Acetate	4.384	43	59704	21.002	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	247030	19.667	ug/l	97
20) Methylene Chloride	4.616	84	132229	21.801	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	116410	19.512	ug/l	95
22) Diisopropyl ether	6.018	45	288429	19.366	ug/l	98
23) Vinyl Acetate	5.957	43	748048	91.373	ug/l	99
24) 1,1-Dichloroethane	5.915	63	190012	19.354	ug/l	99
25) 2-Butanone	6.896	43	132159	95.593	ug/l	93
26) 2,2-Dichloropropane	6.884	77	167903	19.247	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	133634	19.747	ug/l	99
28) Bromochloromethane	7.244	49	73407	19.273	ug/l	98
29) Tetrahydrofuran	7.262	42	76502	93.229	ug/l	99
30) Chloroform	7.421	83	207096	19.562	ug/l	100
31) Cyclohexane	7.701	56	160159	18.472	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	188861	19.873	ug/l	100
36) 1,1-Dichloropropene	7.835	75	140912	19.317	ug/l	100
37) Ethyl Acetate	6.982	43	55705	19.315	ug/l	98
38) Carbon Tetrachloride	7.817	117	171925	20.289	ug/l	99
39) Methylcyclohexane	9.109	83	182831	19.576	ug/l	99
40) Benzene	8.079	78	450471	19.809	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023386.D
 Acq On : 07 Oct 2025 11:24
 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 :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:41:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M

Quant Title : SW846 8260

QLast Update : Wed Oct 08 04:39:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	31129m	20.783	ug/l	
42) 1,2-Dichloroethane	8.158	62	116941	20.206	ug/l	99
43) Isopropyl Acetate	8.195	43	106595	19.002	ug/l #	87
44) Trichloroethene	8.865	130	131459	20.598	ug/l	98
45) 1,2-Dichloropropane	9.140	63	99363	19.417	ug/l	98
46) Dibromomethane	9.231	93	62277	19.896	ug/l	98
47) Bromodichloromethane	9.420	83	156426	19.854	ug/l	98
48) Methyl methacrylate	9.219	41	50661	19.352	ug/l	99
49) 1,4-Dioxane	9.225	88	13636	420.712	ug/l	99
51) 4-Methyl-2-Pentanone	9.999	43	274059	95.378	ug/l	100
52) Toluene	10.170	92	291453	20.191	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	132848	19.632	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	158580	19.606	ug/l	95
55) 1,1,2-Trichloroethane	10.572	97	82183	19.740	ug/l	96
56) Ethyl methacrylate	10.438	69	89244	18.613	ug/l	99
57) 1,3-Dichloropropane	10.719	76	130650	19.389	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	190850m	90.982	ug/l	
59) 2-Hexanone	10.761	43	187387	94.190	ug/l	99
60) Dibromochloromethane	10.908	129	115907	20.412	ug/l	100
61) 1,2-Dibromoethane	11.011	107	78579	20.062	ug/l	100
64) Tetrachloroethene	10.646	164	167648	22.438	ug/l	97
65) Chlorobenzene	11.438	112	326360	20.109	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	116412	20.396	ug/l	99
67) Ethyl Benzene	11.517	91	523606	19.768	ug/l	99
68) m/p-Xylenes	11.627	106	426913	40.211	ug/l	100
69) o-Xylene	11.956	106	195021	19.843	ug/l	96
70) Styrene	11.968	104	327934	20.208	ug/l	99
71) Bromoform	12.133	173	71119	20.814	ug/l #	99
73) Isopropylbenzene	12.255	105	513183	20.136	ug/l	99
74) N-amyl acetate	12.072	43	85063	17.860	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	76821	18.069	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	74100m	19.634	ug/l	
77) Bromobenzene	12.529	156	135402	20.700	ug/l	98
78) n-propylbenzene	12.596	91	597829	19.945	ug/l	100
79) 2-Chlorotoluene	12.676	91	349203	20.179	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	418684	20.208	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	26922	19.234	ug/l	98
82) 4-Chlorotoluene	12.773	91	361458	20.000	ug/l	99
83) tert-Butylbenzene	12.993	119	377277	19.983	ug/l	99
84) 1,2,4-Trimethylbenzene	13.041	105	413292	20.162	ug/l	100
85) sec-Butylbenzene	13.176	105	546582	19.990	ug/l	100
86) p-Isopropyltoluene	13.291	119	464005	20.081	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	262901	20.347	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	259217	20.230	ug/l	99
89) n-Butylbenzene	13.615	91	401893	19.697	ug/l	98
90) Hexachloroethane	13.877	117	98983	19.730	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	231199	20.507	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12668	18.802	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	137963	20.770	ug/l	99
94) Hexachlorobutadiene	15.023	225	87575	21.159	ug/l	99
95) Naphthalene	15.145	128	206017	19.467	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	121656	21.113	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023386.D
Acq On : 07 Oct 2025 11:24
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 :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 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

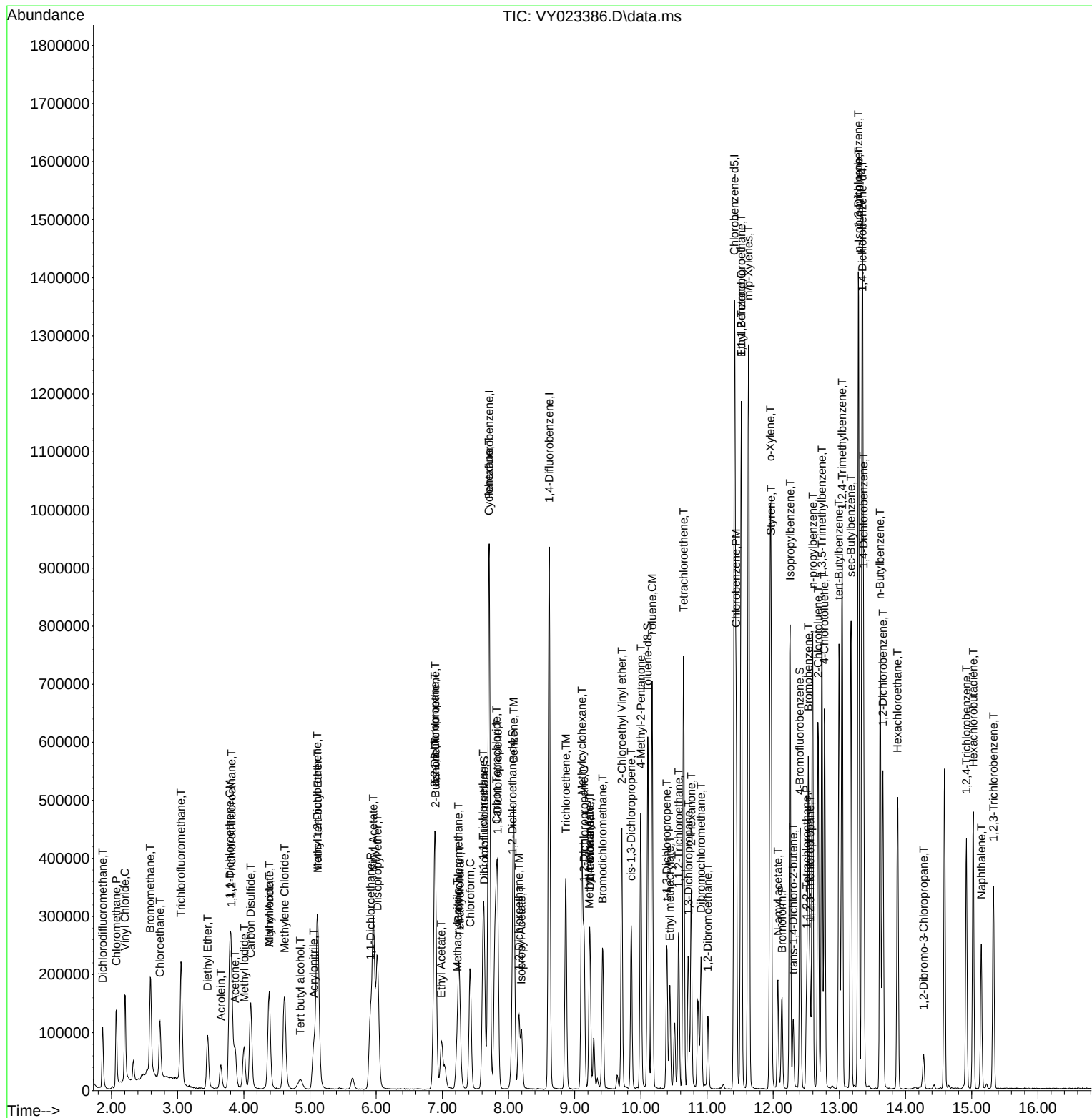
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023386.D
Acq On    : 07 Oct 2025  11:24
Operator  : SY/MD
Sample    : VSTDIC020
Misc      : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial  : 5      Sample Multiplier: 1
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Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Oct 08 04:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023387.D
 Acq On : 07 Oct 2025 11:47
 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 :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:43:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 04:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	590340	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	858767	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	749869	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	392169	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	231295	45.240	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	90.480%		
35) Dibromofluoromethane	7.634	113	256331	49.185	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.360%		
50) Toluene-d8	10.103	98	969649	49.334	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	98.660%		
62) 4-Bromofluorobenzene	12.402	95	313426	50.546	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	101.100%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	189467	40.745	ug/l	100
3) Chloromethane	2.068	50	265142	40.113	ug/l	100
4) Vinyl Chloride	2.202	62	352993	42.293	ug/l	100
5) Bromomethane	2.592	94	277005	40.458	ug/l	100
6) Chloroethane	2.733	64	244551	43.157	ug/l	100
7) Trichlorofluoromethane	3.056	101	496981	46.354	ug/l	100
8) Diethyl Ether	3.452	74	126634	45.158	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	258100	45.039	ug/l	100
10) Methyl Iodide	4.001	142	317731	47.979	ug/l	100
11) Tert butyl alcohol	4.860	59	73642	244.793	ug/l	100
12) 1,1-Dichloroethene	3.787	96	252190	45.738	ug/l	100
13) Acrolein	3.647	56	123642	242.575	ug/l	100
14) Allyl chloride	4.379	41	310569	44.989	ug/l	100
15) Acrylonitrile	5.055	53	240668	219.075	ug/l	100
16) Acetone	3.866	43	247122	214.955	ug/l	100
17) Carbon Disulfide	4.104	76	722982	42.028	ug/l	100
18) Methyl Acetate	4.385	43	144816	49.563	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	601934	46.626	ug/l	100
20) Methylene Chloride	4.616	84	270612	43.409	ug/l	100
21) trans-1,2-Dichloroethene	5.110	96	277516	45.256	ug/l	100
22) Diisopropyl ether	6.019	45	686481	44.844	ug/l	100
23) Vinyl Acetate	5.958	43	1843784	219.119	ug/l	100
24) 1,1-Dichloroethane	5.915	63	448267	44.423	ug/l	100
25) 2-Butanone	6.890	43	310237	218.327	ug/l	100
26) 2,2-Dichloropropane	6.884	77	416391	46.440	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	320028	46.010	ug/l	100
28) Bromochloromethane	7.244	49	157414	40.211	ug/l	100
29) Tetrahydrofuran	7.262	42	187787	222.653	ug/l	100
30) Chloroform	7.421	83	493098	45.316	ug/l	100
31) Cyclohexane	7.701	56	379644	42.602	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	452713	46.347	ug/l	100
36) 1,1-Dichloropropene	7.835	75	341353	46.424	ug/l	100
37) Ethyl Acetate	6.982	43	129053	44.394	ug/l	100
38) Carbon Tetrachloride	7.817	117	413187	48.374	ug/l	100
39) Methylcyclohexane	9.109	83	452959	48.113	ug/l	100
40) Benzene	8.079	78	1080883	47.154	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023387.D
 Acq On : 07 Oct 2025 11:47
 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 : Semsettin Yesilyurt 10/10/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:43:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 04:39:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	68542	45.399	ug/l	100
42) 1,2-Dichloroethane	8.152	62	270387	46.350	ug/l	100
43) Isopropyl Acetate	8.195	43	259041	45.811	ug/l	100
44) Trichloroethene	8.866	130	315104	48.982	ug/l	100
45) 1,2-Dichloropropane	9.140	63	234978	45.555	ug/l	100
46) Dibromomethane	9.231	93	148914	47.198	ug/l	100
47) Bromodichloromethane	9.420	83	377084	47.482	ug/l	100
48) Methyl methacrylate	9.219	41	126732	48.027	ug/l	100
49) 1,4-Dioxane	9.225	88	34053	1042.312	ug/l	100
51) 4-Methyl-2-Pentanone	9.993	43	682879	235.772	ug/l	100
52) Toluene	10.170	92	710404	48.824	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	330392	48.438	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	390619	47.910	ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	198478	47.296	ug/l	100
56) Ethyl methacrylate	10.438	69	239407	49.535	ug/l	100
57) 1,3-Dichloropropane	10.713	76	321276	47.301	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	553816	261.921	ug/l	100
59) 2-Hexanone	10.756	43	479606	239.162	ug/l	100
60) Dibromochloromethane	10.908	129	281047	49.103	ug/l	100
61) 1,2-Dibromoethane	11.012	107	191356	48.468	ug/l	100
64) Tetrachloroethene	10.646	164	392056	52.264	ug/l	100
65) Chlorobenzene	11.438	112	789650	48.460	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.511	131	279583	48.788	ug/l	100
67) Ethyl Benzene	11.518	91	1332350	50.099	ug/l	100
68) m/p-Xylenes	11.627	106	1077583	101.092	ug/l	100
69) o-Xylene	11.950	106	502722	50.946	ug/l	100
70) Styrene	11.969	104	831908	51.059	ug/l	100
71) Bromoform	12.127	173	172315	50.229	ug/l #	100
73) Isopropylbenzene	12.249	105	1301009	49.803	ug/l	100
74) N-amyl acetate	12.066	43	227684	46.640	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	195565	44.878	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	169814m	43.898	ug/l	100
77) Bromobenzene	12.530	156	331331	49.419	ug/l	100
78) n-propylbenzene	12.591	91	1522965	49.572	ug/l	100
79) 2-Chlorotoluene	12.676	91	873335	49.235	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	1061112	49.966	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	66299	46.212	ug/l	100
82) 4-Chlorotoluene	12.773	91	892764	48.192	ug/l	100
83) tert-Butylbenzene	12.993	119	988936	51.104	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	1061159	50.505	ug/l	100
85) sec-Butylbenzene	13.170	105	1405003	50.133	ug/l	100
86) p-Isopropyltoluene	13.286	119	1210644	51.115	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	649899	49.072	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	636694	48.476	ug/l	100
89) n-Butylbenzene	13.615	91	1051949	50.299	ug/l	100
90) Hexachloroethane	13.877	117	245108	47.664	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	567114	49.075	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	32585	47.184	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	359833	52.852	ug/l	100
94) Hexachlorobutadiene	15.017	225	226316	53.346	ug/l	100
95) Naphthalene	15.139	128	575044	53.012	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	310831	52.628	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023387.D
Acq On : 07 Oct 2025 11:47
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 :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 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

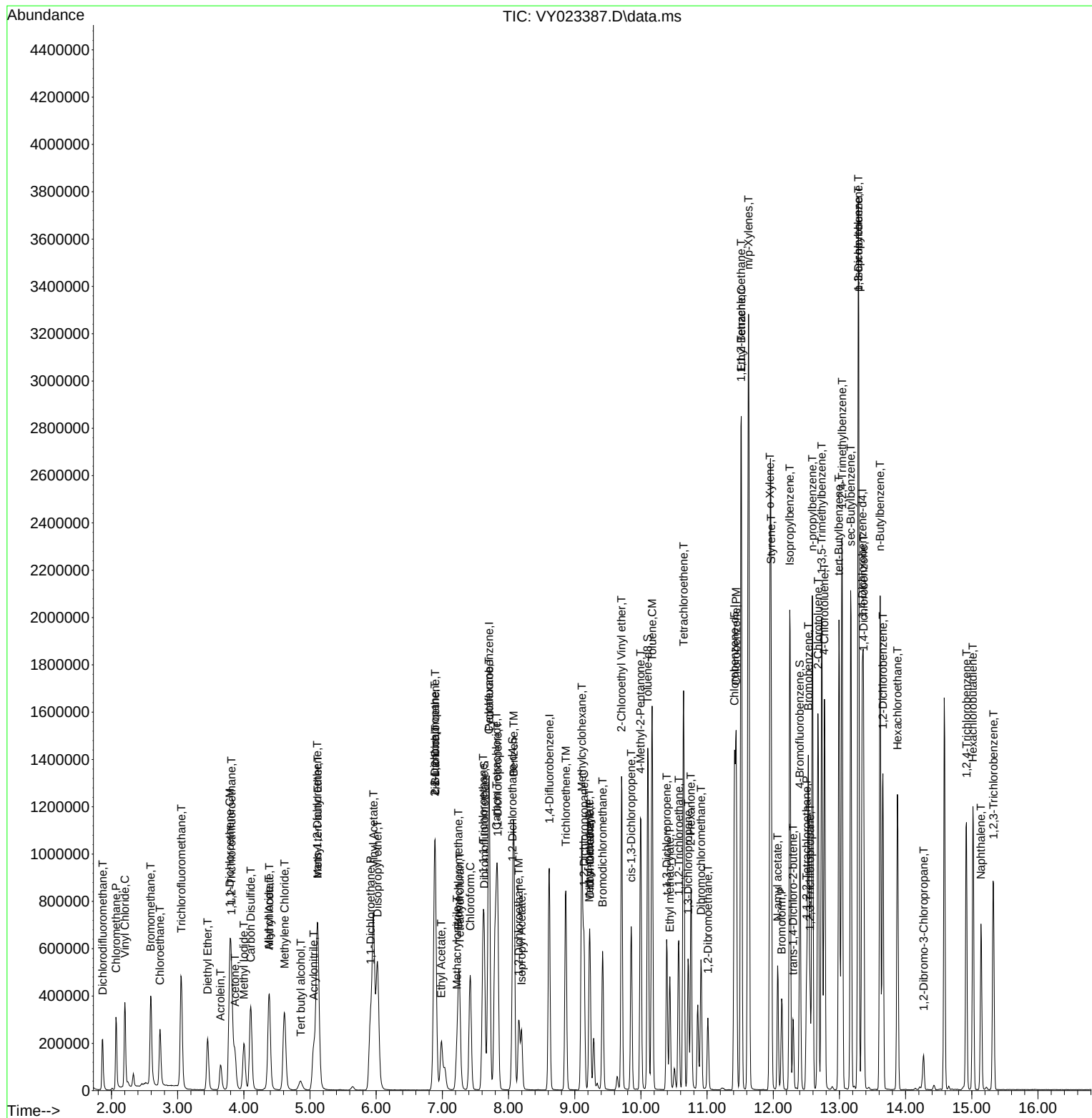
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023387.D
 Acq On : 07 Oct 2025 11:47
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Quant Time: Oct 08 04:43:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 04:39:16 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/10/2025
 Supervised By : Mahesh Dadoda 10/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023388.D
 Acq On : 07 Oct 2025 12:09
 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 : Semsettin Yesilyurt 10/10/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:44:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 04:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	595770	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	855682	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	764361	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	400285	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	467005	90.510	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 181.020%#			
35) Dibromofluoromethane	7.634	113	511478	98.497	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 197.000%#			
50) Toluene-d8	10.103	98	1919872	98.031	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 196.060%#			
62) 4-Bromofluorobenzene	12.401	95	636435	103.007	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 206.020%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	368985	78.627	ug/l	96
3) Chloromethane	2.068	50	521606	78.195	ug/l	96
4) Vinyl Chloride	2.202	62	711235	84.438	ug/l	100
5) Bromomethane	2.586	94	574957	83.210	ug/l	99
6) Chloroethane	2.732	64	491625	85.968	ug/l	99
7) Trichlorofluoromethane	3.049	101	1012851	93.610	ug/l	99
8) Diethyl Ether	3.452	74	266779	94.266	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	511482	88.441	ug/l	100
10) Methyl Iodide	4.001	142	651575	97.495	ug/l	99
11) Tert butyl alcohol	4.866	59	172718	568.898	ug/l	99
12) 1,1-Dichloroethene	3.787	96	508059	91.303	ug/l	96
13) Acrolein	3.647	56	262636	510.573	ug/l	99
14) Allyl chloride	4.378	41	637073	91.446	ug/l	99
15) Acrylonitrile	5.055	53	522511	471.296	ug/l	100
16) Acetone	3.866	43	504700	435.004	ug/l	98
17) Carbon Disulfide	4.104	76	1442005	83.061	ug/l	99
18) Methyl Acetate	4.385	43	316911	107.474	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	1300206	99.797	ug/l	97
20) Methylene Chloride	4.610	84	552018	87.742	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	569334	91.999	ug/l	96
22) Diisopropyl ether	6.018	45	1423347	92.133	ug/l	97
23) Vinyl Acetate	5.957	43	3975052	468.098	ug/l	99
24) 1,1-Dichloroethane	5.915	63	911619	89.517	ug/l	99
25) 2-Butanone	6.890	43	685693	478.154	ug/l	99
26) 2,2-Dichloropropane	6.884	77	833452	92.108	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	670773	95.557	ug/l	98
28) Bromochloromethane	7.244	49	321657	81.418	ug/l	99
29) Tetrahydrofuran	7.262	42	415867	488.587	ug/l	99
30) Chloroform	7.421	83	1003722	91.401	ug/l	100
31) Cyclohexane	7.701	56	767083	85.293	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	910837	92.399	ug/l	100
36) 1,1-Dichloropropene	7.835	75	692477	94.516	ug/l	99
37) Ethyl Acetate	6.982	43	280560	96.859	ug/l	98
38) Carbon Tetrachloride	7.817	117	833170	97.894	ug/l	99
39) Methylcyclohexane	9.109	83	947664	101.024	ug/l	99
40) Benzene	8.079	78	2192645	96.000	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023388.D
 Acq On : 07 Oct 2025 12:09
 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 :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:44:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 04:39:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	152239	101.200	ug/l	98
42) 1,2-Dichloroethane	8.158	62	554810	95.449	ug/l	100
43) Isopropyl Acetate	8.195	43	573653	101.815	ug/l	99
44) Trichloroethene	8.866	130	636149	99.245	ug/l	100
45) 1,2-Dichloropropane	9.140	63	485084	94.381	ug/l	99
46) Dibromomethane	9.231	93	309964	98.596	ug/l	99
47) Bromodichloromethane	9.420	83	769238	97.210	ug/l	99
48) Methyl methacrylate	9.219	41	282582	107.476	ug/l	99
49) 1,4-Dioxane	9.225	88	77305	2374.722	ug/l	99
51) 4-Methyl-2-Pentanone	9.993	43	1539324	533.386	ug/l	100
52) Toluene	10.170	92	1462927	100.905	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	710475	104.537	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	822967	101.302	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	417623	99.875	ug/l	96
56) Ethyl methacrylate	10.438	69	549366	114.077	ug/l	99
57) 1,3-Dichloropropane	10.713	76	670961	99.140	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	1240361	588.731	ug/l	99
59) 2-Hexanone	10.755	43	1081568	541.284	ug/l	99
60) Dibromochloromethane	10.908	129	593878	104.133	ug/l	100
61) 1,2-Dibromoethane	11.011	107	406293	103.280	ug/l	99
64) Tetrachloroethene	10.646	164	767753	100.406	ug/l	99
65) Chlorobenzene	11.438	112	1655143	99.649	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	586878	100.470	ug/l	99
67) Ethyl Benzene	11.517	91	2788252	102.856	ug/l	98
68) m/p-Xylenes	11.627	106	2243033	206.437	ug/l	100
69) o-Xylene	11.950	106	1072335	106.611	ug/l	99
70) Styrene	11.969	104	1782757	107.344	ug/l	100
71) Bromoform	12.127	173	373208	106.727	ug/l #	100
73) Isopropylbenzene	12.249	105	2741698	102.825	ug/l	100
74) N-amyl acetate	12.066	43	532255	106.818	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	434720	97.735	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	364622m	92.345	ug/l	
77) Bromobenzene	12.529	156	701741	102.545	ug/l	100
78) n-propylbenzene	12.590	91	3165894	100.958	ug/l	99
79) 2-Chlorotoluene	12.676	91	1800124	99.426	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	2219080	102.374	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	148302	101.273	ug/l	98
82) 4-Chlorotoluene	12.773	91	1854165	98.060	ug/l	99
83) tert-Butylbenzene	12.993	119	2028198	102.684	ug/l	97
84) 1,2,4-Trimethylbenzene	13.042	105	2227197	103.853	ug/l	100
85) sec-Butylbenzene	13.170	105	2932949	102.530	ug/l	100
86) p-Isopropyltoluene	13.285	119	2548220	105.408	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	1361716	100.735	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	1323618	98.734	ug/l	100
89) n-Butylbenzene	13.615	91	2223744	104.174	ug/l	99
90) Hexachloroethane	13.877	117	514746	98.069	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	1193043	101.146	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	70107	99.458	ug/l	94
93) 1,2,4-Trichlorobenzene	14.919	180	806328	116.031	ug/l	99
94) Hexachlorobutadiene	15.017	225	470072	108.557	ug/l	99
95) Naphthalene	15.139	128	1378291	124.485	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	693477	115.034	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023388.D
Acq On : 07 Oct 2025 12:09
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 :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:44:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

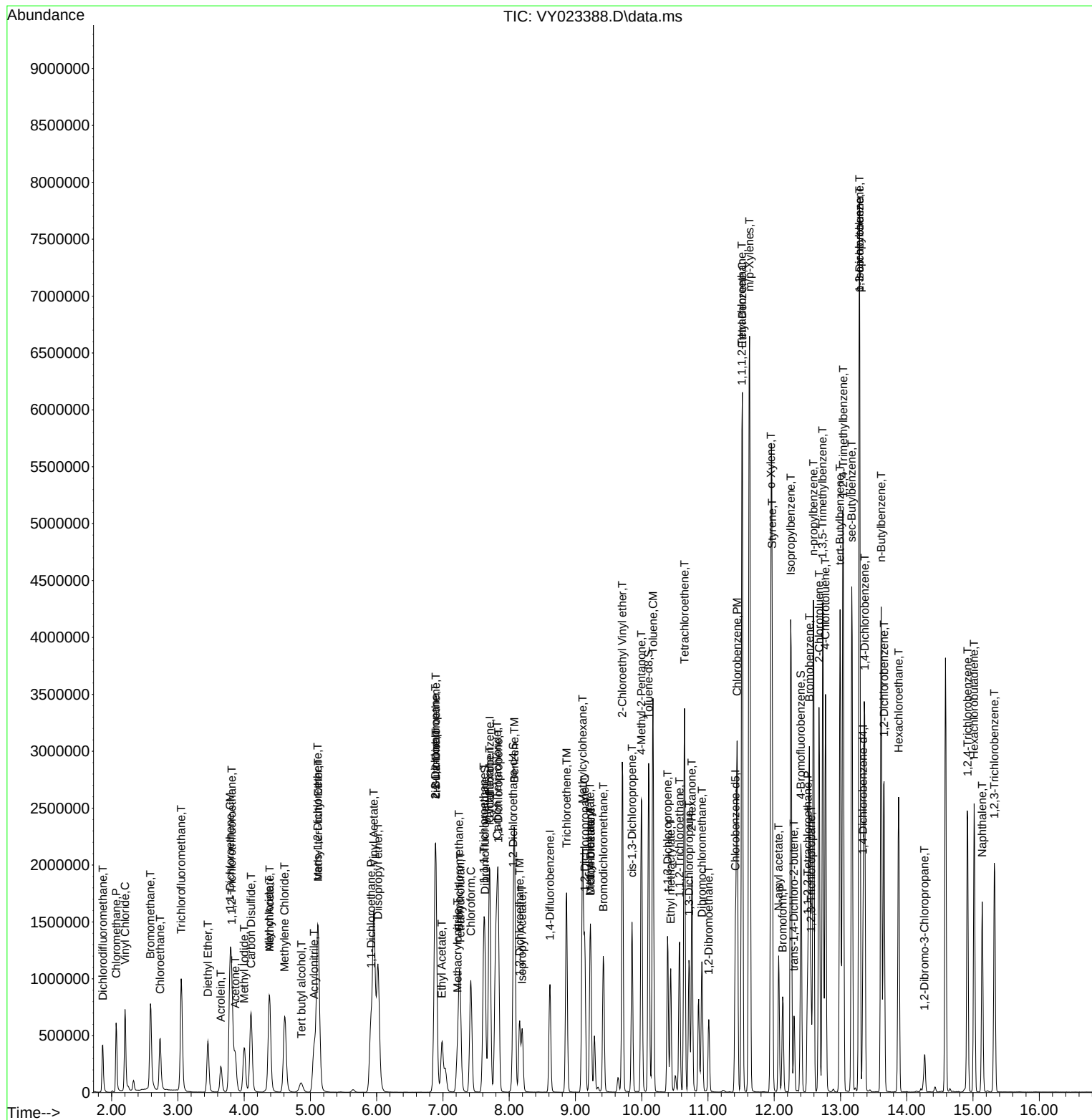
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023389.D
 Acq On : 07 Oct 2025 12:32
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Quant Time: Oct 08 04:45:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 04:39:16 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/10/2025
 Supervised By : Mahesh Dadoda 10/10/2025

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	588489	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	855488	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	765357	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	402368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	714730	140.236	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 280.480%#			
35) Dibromofluoromethane	7.634	113	778632	149.977	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 299.960%#			
50) Toluene-d8	10.103	98	2912319	148.741	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 297.480%#			
62) 4-Bromofluorobenzene	12.402	95	990964	160.423	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 320.840%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	587619	126.766	ug/l	97
3) Chloromethane	2.068	50	825167	125.233	ug/l	100
4) Vinyl Chloride	2.208	62	1118134	134.387	ug/l	100
5) Bromomethane	2.580	94	915389	134.118	ug/l	98
6) Chloroethane	2.726	64	756912	133.994	ug/l	99
7) Trichlorofluoromethane	3.050	101	1549160	144.948	ug/l	100
8) Diethyl Ether	3.452	74	418615	149.747	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	786278	137.639	ug/l	99
10) Methyl Iodide	4.007	142	992925	150.409	ug/l	99
11) Tert butyl alcohol	4.866	59	288878	963.279	ug/l	99
12) 1,1-Dichloroethene	3.787	96	781235	142.133	ug/l	97
13) Acrolein	3.653	56	423418	833.323	ug/l	100
14) Allyl chloride	4.385	41	988378	143.628	ug/l	99
15) Acrylonitrile	5.055	53	841857	768.735	ug/l	99
16) Acetone	3.866	43	789668	689.040	ug/l	99
17) Carbon Disulfide	4.104	76	2199339	128.252	ug/l	100
18) Methyl Acetate	4.385	43	505344	173.497	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	2056533	159.802	ug/l	97
20) Methylene Chloride	4.616	84	835005	134.365	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	871380	142.549	ug/l	98
22) Diisopropyl ether	6.019	45	2218430	145.375	ug/l	99
23) Vinyl Acetate	5.958	43	6377047	760.246	ug/l	99
24) 1,1-Dichloroethane	5.915	63	1398477	139.024	ug/l	98
25) 2-Butanone	6.890	43	1116343	788.091	ug/l	97
26) 2,2-Dichloropropane	6.884	77	1281633	143.391	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	1043574	150.505	ug/l	98
28) Bromochloromethane	7.244	49	482210	123.567	ug/l	99
29) Tetrahydrofuran	7.262	42	687719	817.972	ug/l	100
30) Chloroform	7.421	83	1542715	142.221	ug/l	99
31) Cyclohexane	7.701	56	1192778	134.268	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	1405131	144.305	ug/l	100
36) 1,1-Dichloropropene	7.835	75	1069665	146.031	ug/l	100
37) Ethyl Acetate	6.982	43	460027	158.853	ug/l	98
38) Carbon Tetrachloride	7.817	117	1290353	151.646	ug/l	99
39) Methylcyclohexane	9.109	83	1496612	159.580	ug/l	99
40) Benzene	8.079	78	3366812	147.442	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023389.D
 Acq On : 07 Oct 2025 12:32
 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 :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:45:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M

Quant Title : SW846 8260

QLast Update : Wed Oct 08 04:39:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	246974	164.212	ug/l	98
42) 1,2-Dichloroethane	8.158	62	866250	149.063	ug/l	100
43) Isopropyl Acetate	8.195	43	946087	167.955	ug/l	100
44) Trichloroethene	8.866	130	966011	150.740	ug/l	99
45) 1,2-Dichloropropane	9.140	63	752286	146.403	ug/l	99
46) Dibromomethane	9.231	93	483702	153.895	ug/l	99
47) Bromodichloromethane	9.420	83	1202247	151.965	ug/l	98
48) Methyl methacrylate	9.219	41	463614	176.368	ug/l	100
49) 1,4-Dioxane	9.225	88	123991	3809.726	ug/l	97
51) 4-Methyl-2-Pentanone	9.993	43	2516107	872.045	ug/l	100
52) Toluene	10.170	92	2272574	156.786	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	1123644	165.367	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	1296713	159.654	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	652242	156.020	ug/l	96
56) Ethyl methacrylate	10.438	69	886127	184.048	ug/l	100
57) 1,3-Dichloropropane	10.713	76	1049593	155.122	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	2040136	968.559	ug/l	100
59) 2-Hexanone	10.755	43	1776032	889.038	ug/l	99
60) Dibromochloromethane	10.908	129	935577	164.084	ug/l	99
61) 1,2-Dibromoethane	11.012	107	639895	162.699	ug/l	99
64) Tetrachloroethene	10.646	164	1046931	136.739	ug/l	98
65) Chlorobenzene	11.438	112	2563176	154.117	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	923367	157.870	ug/l	99
67) Ethyl Benzene	11.518	91	4341801	159.957	ug/l	97
68) m/p-Xylenes	11.627	106	3502137	321.899	ug/l	99
69) o-Xylene	11.950	106	1694987	168.295	ug/l	98
70) Styrene	11.969	104	2830398	170.203	ug/l	99
71) Bromoform	12.127	173	602644	172.115	ug/l #	99
73) Isopropylbenzene	12.249	105	4290662	160.084	ug/l	100
74) N-amyl acetate	12.066	43	890882	177.866	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	737773	165.010	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	565754m	142.542	ug/l	
77) Bromobenzene	12.530	156	1111318	161.555	ug/l	100
78) n-propylbenzene	12.591	91	4932015	156.465	ug/l	99
79) 2-Chlorotoluene	12.676	91	2822049	155.063	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	3496249	160.460	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	245190	166.570	ug/l	98
82) 4-Chlorotoluene	12.773	91	2902371	152.701	ug/l	99
83) tert-Butylbenzene	12.993	119	3220384	162.197	ug/l	97
84) 1,2,4-Trimethylbenzene	13.042	105	3503639	162.527	ug/l	99
85) sec-Butylbenzene	13.170	105	4560715	158.609	ug/l	99
86) p-Isopropyltoluene	13.286	119	4024712	165.622	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	2165278	159.350	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	2090133	155.104	ug/l	100
89) n-Butylbenzene	13.615	91	3505715	163.379	ug/l	99
90) Hexachloroethane	13.877	117	799264	151.487	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	1862691	157.101	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	116273	164.099	ug/l	96
93) 1,2,4-Trichlorobenzene	14.913	180	1272621	182.183	ug/l	100
94) Hexachlorobutadiene	15.017	225	711748	163.518	ug/l	98
95) Naphthalene	15.139	128	2277549	204.639	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	1110193	183.206	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023389.D
Acq On : 07 Oct 2025 12:32
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 :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:45:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

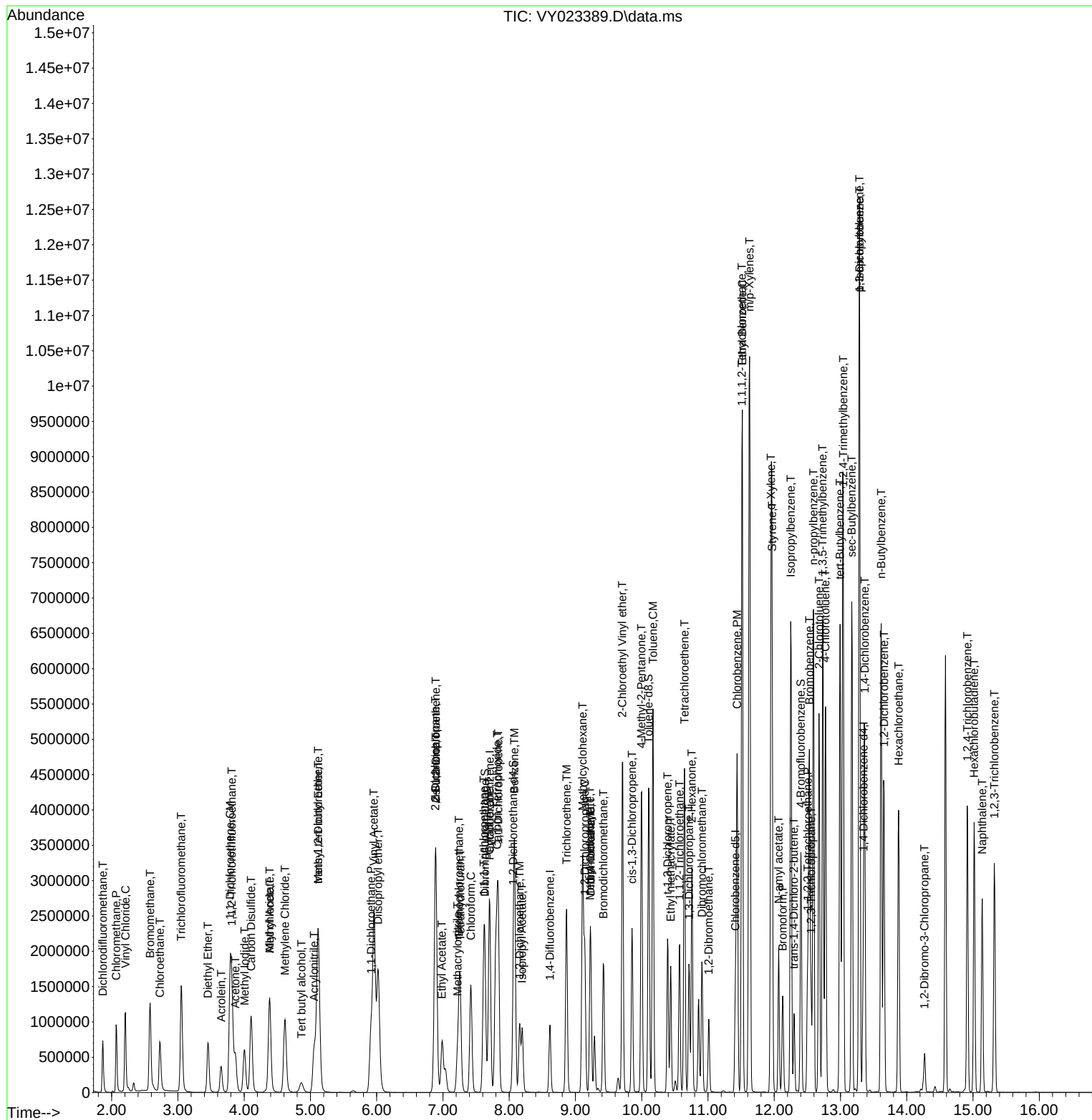
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023391.D
 Acq On : 07 Oct 2025 14:12
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100725

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/10/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 05:15:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	574332	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	861639	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	771372	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	405636	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	237493	49.450	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.900%
35) Dibromofluoromethane	7.634	113	260038	49.116	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.240%
50) Toluene-d8	10.103	98	970614	49.228	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.460%
62) 4-Bromofluorobenzene	12.402	95	324700	49.881	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	99.760%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	185683	44.916	ug/l	99
3) Chloromethane	2.068	50	295766	52.519	ug/l	98
4) Vinyl Chloride	2.208	62	362714	49.449	ug/l	100
5) Bromomethane	2.598	94	300735	48.856	ug/l	98
6) Chloroethane	2.739	64	256831	51.367	ug/l	99
7) Trichlorofluoromethane	3.056	101	494789	48.582	ug/l	99
8) Diethyl Ether	3.458	74	135857	51.050	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	257524	48.728	ug/l	100
10) Methyl Iodide	4.007	142	305209	51.875	ug/l	98
11) Tert butyl alcohol	4.860	59	82562	231.079	ug/l	100
12) 1,1-Dichloroethene	3.787	96	254382	49.653	ug/l	97
13) Acrolein	3.653	56	124288	246.184	ug/l	99
14) Allyl chloride	4.385	41	316213	50.645	ug/l	99
15) Acrylonitrile	5.055	53	256219	251.575	ug/l	99
16) Acetone	3.866	43	243433	212.910	ug/l	98
17) Carbon Disulfide	4.104	76	733457	50.021	ug/l	100
18) Methyl Acetate	4.385	43	151281	50.439	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	643111	52.230	ug/l	97
20) Methylene Chloride	4.616	84	324604	52.503	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	290384	51.482	ug/l	98
22) Diisopropyl ether	6.019	45	709381	51.364	ug/l	99
23) Vinyl Acetate	5.958	43	1950969	260.981	ug/l	99
24) 1,1-Dichloroethane	5.915	63	464207	50.742	ug/l	98
25) 2-Butanone	6.890	43	325351	233.083	ug/l	99
26) 2,2-Dichloropropane	6.884	77	416585	49.626	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	341964	52.485	ug/l	97
28) Bromochloromethane	7.244	49	155146	45.427	ug/l	100
29) Tetrahydrofuran	7.262	42	200513	253.317	ug/l	99
30) Chloroform	7.421	83	513997	51.137	ug/l	98
31) Cyclohexane	7.701	56	378819	47.416	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	456112	49.934	ug/l	100
36) 1,1-Dichloropropene	7.835	75	348786	49.761	ug/l	99
37) Ethyl Acetate	6.982	43	138119	49.740	ug/l	98
38) Carbon Tetrachloride	7.817	117	413653	48.671	ug/l	99
39) Methylcyclohexane	9.109	83	456031	49.970	ug/l	99
40) Benzene	8.079	78	1107790	49.906	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023391.D
 Acq On : 07 Oct 2025 14:12
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 05:15:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	72100	48.008	ug/l	96
42) 1,2-Dichloroethane	8.158	62	282332	49.318	ug/l	99
43) Isopropyl Acetate	8.195	43	279887	50.548	ug/l	100
44) Trichloroethene	8.866	130	319131	49.120	ug/l	98
45) 1,2-Dichloropropane	9.140	63	246887	50.355	ug/l	100
46) Dibromomethane	9.231	93	157758	50.885	ug/l	98
47) Bromodichloromethane	9.420	83	393918	50.450	ug/l	99
48) Methyl methacrylate	9.219	41	128606	49.440	ug/l	95
49) 1,4-Dioxane	9.231	88	37356	1039.252	ug/l	97
51) 4-Methyl-2-Pentanone	10.000	43	724992	253.421	ug/l	100
52) Toluene	10.170	92	743055	51.556	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	347336	51.160	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	413860	51.649	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	210245	50.430	ug/l	97
56) Ethyl methacrylate	10.438	69	256731	53.385	ug/l	99
57) 1,3-Dichloropropane	10.713	76	337673	51.113	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	586266	272.133	ug/l	100
59) 2-Hexanone	10.762	43	501877	245.480	ug/l	99
60) Dibromochloromethane	10.908	129	297946	50.974	ug/l	99
61) 1,2-Dibromoethane	11.018	107	201415	50.658	ug/l	100
64) Tetrachloroethene	10.646	164	382998	48.087	ug/l	99
65) Chlorobenzene	11.438	112	828466	49.381	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	296157	49.537	ug/l	99
67) Ethyl Benzene	11.518	91	1380691	50.841	ug/l	100
68) m/p-Xylenes	11.627	106	1108386	101.757	ug/l	100
69) o-Xylene	11.950	106	526954	51.577	ug/l	100
70) Styrene	11.969	104	875709	52.122	ug/l	100
71) Bromoform	12.133	173	185682	50.070	ug/l #	98
73) Isopropylbenzene	12.255	105	1345109	50.318	ug/l	100
74) N-amyl acetate	12.066	43	245291	51.087	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	217245	49.688	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	153438m	42.874	ug/l	
77) Bromobenzene	12.530	156	352420	49.590	ug/l	99
78) n-propylbenzene	12.591	91	1568180	50.694	ug/l	100
79) 2-Chlorotoluene	12.676	91	906610	50.047	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	1106664	51.231	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	67959	46.566	ug/l	97
82) 4-Chlorotoluene	12.773	91	941314	50.455	ug/l	100
83) tert-Butylbenzene	12.993	119	1037510	52.019	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1110672	51.520	ug/l	99
85) sec-Butylbenzene	13.176	105	1454774	50.848	ug/l	100
86) p-Isopropyltoluene	13.292	119	1263377	51.864	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	686854	49.632	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	671644	49.140	ug/l	100
89) n-Butylbenzene	13.615	91	1100086	51.829	ug/l	99
90) Hexachloroethane	13.877	117	257335	49.116	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	602989	49.698	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	34928	48.687	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	386806	51.138	ug/l	100
94) Hexachlorobutadiene	15.023	225	236040	50.061	ug/l	99
95) Naphthalene	15.139	128	628190	52.154	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	335267	51.172	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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\VY100725\
 Data File : VY023391.D
 Acq On : 07 Oct 2025 14:12
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY100725

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

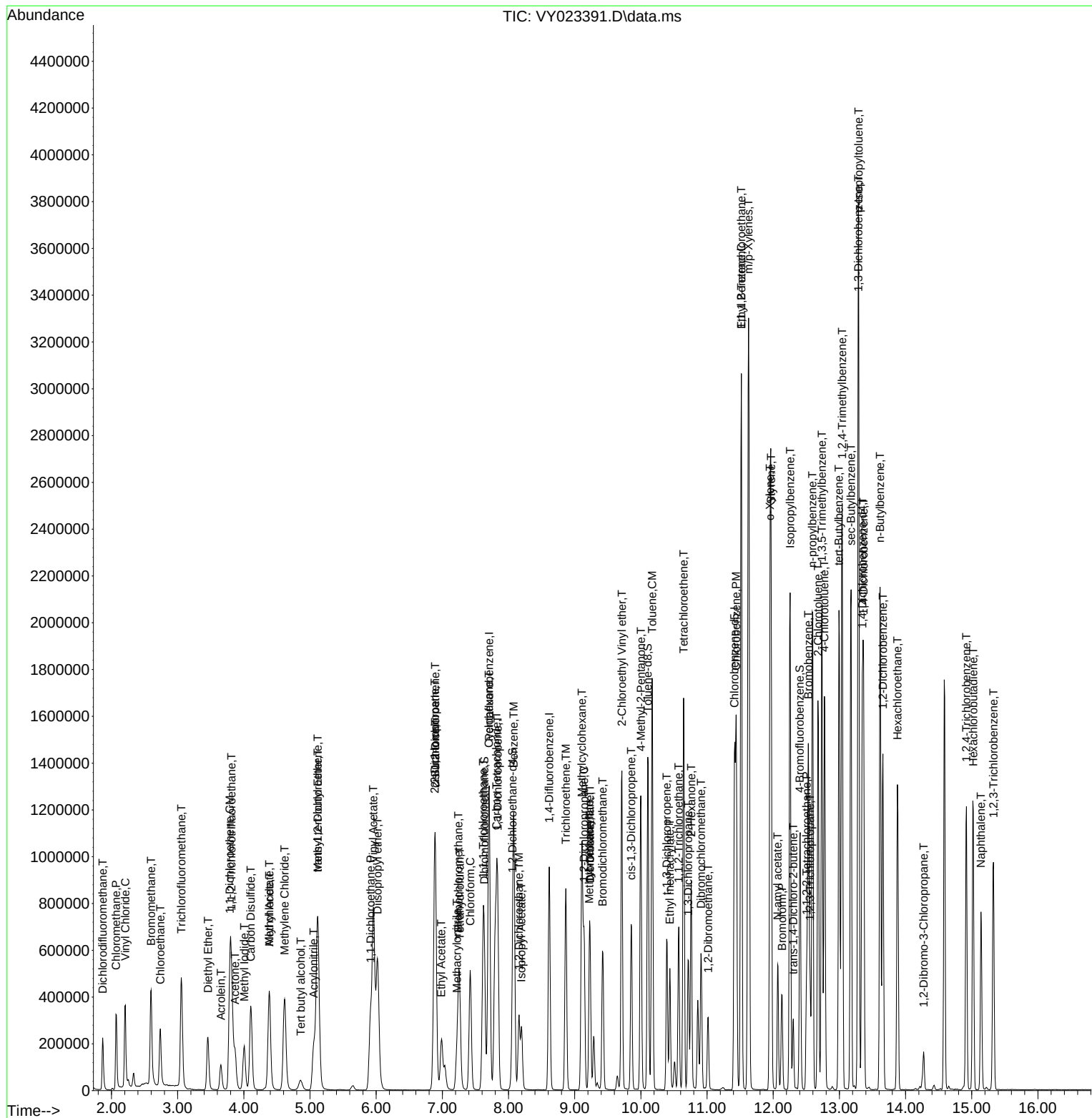
Quant Time: Oct 08 05:15:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M

Quant Title : SW846 8260

QLast Update : Wed Oct 08 05:12:50 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023391.D
 Acq On : 07 Oct 2025 14:12
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100725

Quant Time: Oct 08 05:15:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	50.000	44.916	10.2	98	0.00
3 P	Chloromethane	50.000	52.519	-5.0	112	0.00
4 C	Vinyl Chloride	50.000	49.449	1.1#	103	0.00
5 T	Bromomethane	50.000	48.856	2.3	109	0.00
6 T	Chloroethane	50.000	51.367	-2.7	105	0.00
7 T	Trichlorofluoromethane	50.000	48.582	2.8	100	0.00
8 T	Diethyl Ether	50.000	51.050	-2.1	107	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.728	2.5	100	0.00
10 T	Methyl Iodide	50.000	51.875	-3.8	96	0.00
11 T	Tert butyl alcohol	250.000	231.079	7.6	112	0.00
12 CM	1,1-Dichloroethene	50.000	49.653	0.7#	101	0.00
13 T	Acrolein	250.000	246.184	1.5	101	0.00
14 T	Allyl chloride	50.000	50.645	-1.3	102	0.00
15 T	Acrylonitrile	250.000	251.575	-0.6	106	0.00
16 T	Acetone	250.000	212.910	14.8	99	0.00
17 T	Carbon Disulfide	50.000	50.021	-0.0	101	0.00
18 T	Methyl Acetate	50.000	50.439	-0.9	104	0.00
19 T	Methyl tert-butyl Ether	50.000	52.230	-4.5	107	0.00
20 T	Methylene Chloride	50.000	52.503	-5.0	120	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.482	-3.0	105	0.00
22 T	Diisopropyl ether	50.000	51.364	-2.7	103	0.00
23 T	Vinyl Acetate	250.000	260.981	-4.4	106	0.00
24 P	1,1-Dichloroethane	50.000	50.742	-1.5	104	0.00
25 T	2-Butanone	250.000	233.083	6.8	105	0.00
26 T	2,2-Dichloropropane	50.000	49.626	0.7	100	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.485	-5.0	107	0.00
28 T	Bromochloromethane	50.000	45.427	9.1	99	0.00
29 T	Tetrahydrofuran	250.000	253.317	-1.3	107	0.00
30 C	Chloroform	50.000	51.137	-2.3#	104	0.00
31 T	Cyclohexane	50.000	47.416	5.2	100	0.00
32 T	1,1,1-Trichloroethane	50.000	49.934	0.1	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.450	1.1	103	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35 S	Dibromofluoromethane	50.000	49.116	1.8	101	0.00
36 T	1,1-Dichloropropene	50.000	49.761	0.5	102	0.00
37 T	Ethyl Acetate	50.000	49.740	0.5	107	0.00
38 T	Carbon Tetrachloride	50.000	48.671	2.7	100	0.00
39 T	Methylcyclohexane	50.000	49.970	0.1	101	0.00
40 TM	Benzene	50.000	49.906	0.2	102	0.00
41 T	Methacrylonitrile	50.000	48.008	4.0	105	0.00
42 TM	1,2-Dichloroethane	50.000	49.318	1.4	104	0.00
43 T	Isopropyl Acetate	50.000	50.548	-1.1	108	0.00
44 TM	Trichloroethene	50.000	49.120	1.8	101	0.00
45 C	1,2-Dichloropropane	50.000	50.355	-0.7#	105	0.00
46 T	Dibromomethane	50.000	50.885	-1.8	106	0.00
47 T	Bromodichloromethane	50.000	50.450	-0.9	104	0.00
48 T	Methyl methacrylate	50.000	49.440	1.1	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023391.D
 Acq On : 07 Oct 2025 14:12
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100725

Quant Time: Oct 08 05:15:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 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	1039.252	-3.9	110	0.00
50 S	Toluene-d8	50.000	49.228	1.5	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	253.421	-1.4	106	0.00
52 CM	Toluene	50.000	51.556	-3.1#	105	0.00
53 T	t-1,3-Dichloropropene	50.000	51.160	-2.3	105	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.649	-3.3	106	0.00
55 T	1,1,2-Trichloroethane	50.000	50.430	-0.9	106	0.00
56 T	Ethyl methacrylate	50.000	53.385	-6.8	107	0.00
57 T	1,3-Dichloropropane	50.000	51.113	-2.2	105	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	272.133	-8.9	106	0.00
59 T	2-Hexanone	250.000	245.480	1.8	105	0.00
60 T	Dibromochloromethane	50.000	50.974	-1.9	106	0.00
61 T	1,2-Dibromoethane	50.000	50.658	-1.3	105	0.00
62 S	4-Bromofluorobenzene	50.000	49.881	0.2	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	103	0.00
64 T	Tetrachloroethene	50.000	48.087	3.8	98	0.00
65 PM	Chlorobenzene	50.000	49.381	1.2	105	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.537	0.9	106	0.00
67 C	Ethyl Benzene	50.000	50.841	-1.7#	104	0.00
68 T	m/p-Xylenes	100.000	101.757	-1.8	103	0.00
69 T	o-Xylene	50.000	51.577	-3.2	105	0.00
70 T	Styrene	50.000	52.122	-4.2	105	0.00
71 P	Bromoform	50.000	50.070	-0.1	108	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73 T	Isopropylbenzene	50.000	50.318	-0.6	103	0.00
74 T	N-ethyl acetate	50.000	51.087	-2.2	108	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.688	0.6	111	0.00
76 T	1,2,3-Trichloropropane	50.000	42.874	14.3	90	0.00
77 T	Bromobenzene	50.000	49.590	0.8	106	0.00
78 T	n-propylbenzene	50.000	50.694	-1.4	103	0.00
79 T	2-Chlorotoluene	50.000	50.047	-0.1	104	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.231	-2.5	104	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	46.566	6.9	103	0.00
82 T	4-Chlorotoluene	50.000	50.455	-0.9	105	0.00
83 T	tert-Butylbenzene	50.000	52.019	-4.0	105	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.520	-3.0	105	0.00
85 T	sec-Butylbenzene	50.000	50.848	-1.7	104	0.00
86 T	p-Isopropyltoluene	50.000	51.864	-3.7	104	0.00
87 T	1,3-Dichlorobenzene	50.000	49.632	0.7	106	0.00
88 T	1,4-Dichlorobenzene	50.000	49.140	1.7	105	0.00
89 T	n-Butylbenzene	50.000	51.829	-3.7	105	0.00
90 T	Hexachloroethane	50.000	49.116	1.8	105	0.00
91 T	1,2-Dichlorobenzene	50.000	49.698	0.6	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.687	2.6	107	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.138	-2.3	107	0.00
94 T	Hexachlorobutadiene	50.000	50.061	-0.1	104	0.00
95 T	Naphthalene	50.000	52.154	-4.3	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	51.172	-2.3	108	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023391.D
 Acq On : 07 Oct 2025 14:12
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100725

Quant Time: Oct 08 05:15:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	0.360	0.323	10.3	98	0.00
3 P	Chloromethane	0.490	0.515	-5.1	112	0.00
4 C	Vinyl Chloride	0.639	0.632	1.1#	103	0.00
5 T	Bromomethane	0.536	0.524	2.2	109	0.00
6 T	Chloroethane	0.435	0.447	-2.8	105	0.00
7 T	Trichlorofluoromethane	0.887	0.862	2.8	100	0.00
8 T	Diethyl Ether	0.232	0.237	-2.2	107	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.460	0.448	2.6	100	0.00
10 T	Methyl Iodide	0.512	0.531	-3.7	96	0.00
11 T	Tert butyl alcohol	0.031	0.029	6.5	112	0.00
12 CM	1,1-Dichloroethene	0.446	0.443	0.7#	101	0.00
13 T	Acrolein	0.044	0.043	2.3	101	0.00
14 T	Allyl chloride	0.544	0.551	-1.3	102	0.00
15 T	Acrylonitrile	0.089	0.089	0.0	106	0.00
16 T	Acetone	0.100	0.085	15.0	99	0.00
17 T	Carbon Disulfide	1.277	1.277	0.0	101	0.00
18 T	Methyl Acetate	0.261	0.263	-0.8	104	0.00
19 T	Methyl tert-butyl Ether	1.072	1.120	-4.5	107	0.00
20 T	Methylene Chloride	0.538	0.565	-5.0	120	0.00
21 T	trans-1,2-Dichloroethene	0.491	0.506	-3.1	105	0.00
22 T	Diisopropyl ether	1.202	1.235	-2.7	103	0.00
23 T	Vinyl Acetate	0.651	0.679	-4.3	106	0.00
24 P	1,1-Dichloroethane	0.796	0.808	-1.5	104	0.00
25 T	2-Butanone	0.122	0.113	7.4	105	0.00
26 T	2,2-Dichloropropane	0.731	0.725	0.8	100	0.00
27 T	cis-1,2-Dichloroethene	0.567	0.595	-4.9	107	0.00
28 T	Bromochloromethane	0.297	0.270	9.1	99	0.00
29 T	Tetrahydrofuran	0.069	0.070	-1.4	107	0.00
30 C	Chloroform	0.875	0.895	-2.3#	104	0.00
31 T	Cyclohexane	0.696	0.660	5.2	100	0.00
32 T	1,1,1-Trichloroethane	0.795	0.794	0.1	101	0.00
33 S	1,2-Dichloroethane-d4	0.418	0.414	1.0	103	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35 S	Dibromofluoromethane	0.307	0.302	1.6	101	0.00
36 T	1,1-Dichloropropene	0.407	0.405	0.5	102	0.00
37 T	Ethyl Acetate	0.161	0.160	0.6	107	0.00
38 T	Carbon Tetrachloride	0.493	0.480	2.6	100	0.00
39 T	Methylcyclohexane	0.530	0.529	0.2	101	0.00
40 TM	Benzene	1.288	1.286	0.2	102	0.00
41 T	Methacrylonitrile	0.087	0.084	3.4	105	0.00
42 TM	1,2-Dichloroethane	0.332	0.328	1.2	104	0.00
43 T	Isopropyl Acetate	0.321	0.325	-1.2	108	0.00
44 TM	Trichloroethene	0.377	0.370	1.9	101	0.00
45 C	1,2-Dichloropropane	0.285	0.287	-0.7#	105	0.00
46 T	Dibromomethane	0.180	0.183	-1.7	106	0.00
47 T	Bromodichloromethane	0.453	0.457	-0.9	104	0.00
48 T	Methyl methacrylate	0.151	0.149	1.3	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
 Data File : VY023391.D
 Acq On : 07 Oct 2025 14:12
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100725

Quant Time: Oct 08 05:15:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 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	110	0.00
50 S	Toluene-d8	1.144	1.126	1.6	100	0.00
51 T	4-Methyl-2-Pentanone	0.166	0.168	-1.2	106	0.00
52 CM	Toluene	0.836	0.862	-3.1#	105	0.00
53 T	t-1,3-Dichloropropene	0.394	0.403	-2.3	105	0.00
54 T	cis-1,3-Dichloropropene	0.465	0.480	-3.2	106	0.00
55 T	1,1,2-Trichloroethane	0.242	0.244	-0.8	106	0.00
56 T	Ethyl methacrylate	0.279	0.298	-6.8	107	0.00
57 T	1,3-Dichloropropane	0.383	0.392	-2.3	105	0.00
58 T	2-Chloroethyl Vinyl ether	0.125	0.136	-8.8	106	0.00
59 T	2-Hexanone	0.119	0.116	2.5	105	0.00
60 T	Dibromochloromethane	0.339	0.346	-2.1	106	0.00
61 T	1,2-Dibromoethane	0.231	0.234	-1.3	105	0.00
62 S	4-Bromofluorobenzene	0.378	0.377	0.3	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
64 T	Tetrachloroethene	0.516	0.497	3.7	98	0.00
65 PM	Chlorobenzene	1.087	1.074	1.2	105	0.00
66 T	1,1,1,2-Tetrachloroethane	0.388	0.384	1.0	106	0.00
67 C	Ethyl Benzene	1.760	1.790	-1.7#	104	0.00
68 T	m/p-Xylenes	0.706	0.718	-1.7	103	0.00
69 T	o-Xylene	0.662	0.683	-3.2	105	0.00
70 T	Styrene	1.089	1.135	-4.2	105	0.00
71 P	Bromoform	0.240	0.241	-0.4	108	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73 T	Isopropylbenzene	3.295	3.316	-0.6	103	0.00
74 T	N-amyl acetate	0.592	0.605	-2.2	108	0.00
75 P	1,1,2,2-Tetrachloroethane	0.539	0.536	0.6	111	0.00
76 T	1,2,3-Trichloropropane	0.441	0.378	14.3	90	0.00
77 T	Bromobenzene	0.876	0.869	0.8	106	0.00
78 T	n-propylbenzene	3.813	3.866	-1.4	103	0.00
79 T	2-Chlorotoluene	2.233	2.235	-0.1	104	0.00
80 T	1,3,5-Trimethylbenzene	2.663	2.728	-2.4	104	0.00
81 T	trans-1,4-Dichloro-2-butene	0.180	0.168	6.7	103	0.00
82 T	4-Chlorotoluene	2.300	2.321	-0.9	105	0.00
83 T	tert-Butylbenzene	2.458	2.558	-4.1	105	0.00
84 T	1,2,4-Trimethylbenzene	2.657	2.738	-3.0	105	0.00
85 T	sec-Butylbenzene	3.527	3.586	-1.7	104	0.00
86 T	p-Isopropyltoluene	3.003	3.115	-3.7	104	0.00
87 T	1,3-Dichlorobenzene	1.706	1.693	0.8	106	0.00
88 T	1,4-Dichlorobenzene	1.685	1.656	1.7	105	0.00
89 T	n-Butylbenzene	2.616	2.712	-3.7	105	0.00
90 T	Hexachloroethane	0.646	0.634	1.9	105	0.00
91 T	1,2-Dichlorobenzene	1.496	1.487	0.6	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.088	0.086	2.3	107	0.00
93 T	1,2,4-Trichlorobenzene	0.932	0.954	-2.4	107	0.00
94 T	Hexachlorobutadiene	0.581	0.582	-0.2	104	0.00
95 T	Naphthalene	1.485	1.549	-4.3	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	0.808	0.827	-2.4	108	0.00

(#) = Out of Range

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>LANG01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3323</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>10/10/2025 08:56</u>
Lab File ID:	<u>VY023424.D</u>	Init. Calib. Date(s):	<u>10/07/2025 10/07/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:17 12:32</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.360	0.316		-12.22	20
Chloromethane	0.490	0.435	0.1	-11.22	20
Vinyl Chloride	0.639	0.592		-7.36	20
Bromomethane	0.536	0.469		-12.5	20
Chloroethane	0.435	0.420		-3.45	20
Trichlorofluoromethane	0.887	0.825		-6.99	20
1,1,2-Trichlorotrifluoroethane	0.460	0.447		-2.83	20
1,1-Dichloroethene	0.446	0.430		-3.59	20
Acetone	0.100	0.108		8	20
Carbon Disulfide	1.277	1.249		-2.19	20
Methyl tert-butyl Ether	1.072	1.030		-3.92	20
Methyl Acetate	0.261	0.259		-0.77	20
Methylene Chloride	0.538	0.470		-12.64	20
trans-1,2-Dichloroethene	0.491	0.480		-2.24	20
1,1-Dichloroethane	0.796	0.775	0.1	-2.64	20
Cyclohexane	0.696	0.637		-8.48	20
2-Butanone	0.122	0.119		-2.46	20
Carbon Tetrachloride	0.493	0.502		1.83	20
cis-1,2-Dichloroethene	0.567	0.565		-0.35	20
Bromochloromethane	0.297	0.271		-8.75	20
Chloroform	0.875	0.864		-1.26	20
1,1,1-Trichloroethane	0.795	0.784		-1.38	20
Methylcyclohexane	0.530	0.538		1.51	20
Benzene	1.288	1.323		2.72	20
1,2-Dichloroethane	0.332	0.330		-0.6	20
Trichloroethene	0.377	0.378		0.26	20
1,2-Dichloropropane	0.285	0.291		2.11	20
Bromodichloromethane	0.453	0.461		1.77	20
4-Methyl-2-Pentanone	0.166	0.169		1.81	20
Toluene	0.836	0.874		4.55	20
t-1,3-Dichloropropene	0.394	0.400		1.52	20
cis-1,3-Dichloropropene	0.465	0.476		2.37	20
1,1,2-Trichloroethane	0.242	0.250		3.31	20
2-Hexanone	0.119	0.124		4.2	20
Dibromochloromethane	0.339	0.344		1.48	20
1,2-Dibromoethane	0.231	0.235		1.73	20
Tetrachloroethene	0.516	0.531		2.91	20
Chlorobenzene	1.087	1.091	0.3	0.37	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>LANG01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3323</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>10/10/2025</u> <u>08:56</u>
Lab File ID:	<u>VY023424.D</u>	Init. Calib. Date(s):	<u>10/07/2025</u> <u>10/07/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:17</u> <u>12:32</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.760	1.824		3.64	20
m/p-Xylenes	0.706	0.740		4.82	20
o-Xylene	0.662	0.685		3.47	20
Styrene	1.089	1.153		5.88	20
Bromoform	0.240	0.239	0.1	-0.42	20
Isopropylbenzene	3.295	3.428		4.04	20
1,1,2,2-Tetrachloroethane	0.539	0.531	0.3	-1.48	20
1,3-Dichlorobenzene	1.706	1.684		-1.29	20
1,4-Dichlorobenzene	1.685	1.635		-2.97	20
1,2-Dichlorobenzene	1.496	1.475		-1.4	20
1,2-Dibromo-3-Chloropropane	0.088	0.084		-4.55	20
1,2,4-Trichlorobenzene	0.932	0.855		-8.26	20
1,2,3-Trichlorobenzene	0.808	0.733		-9.28	20
1,2-Dichloroethane-d4	0.418	0.381		-8.85	20
Dibromofluoromethane	0.307	0.297		-3.26	20
Toluene-d8	1.144	1.117		-2.36	20
4-Bromofluorobenzene	0.378	0.363		-3.97	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\VY101025\
 Data File : VY023424.D
 Acq On : 10 Oct 2025 08:56
 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 10/13/2025
 Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 10 15:31:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	555461	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	789535	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	696631	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	366006	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	211386	45.510	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.020%
35) Dibromofluoromethane	7.634	113	234346	48.306	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.620%
50) Toluene-d8	10.109	98	882010	48.819	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.640%
62) 4-Bromofluorobenzene	12.408	95	286981	48.113	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	96.220%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	175763	43.961	ug/l	98
3) Chloromethane	2.074	50	241869	44.408	ug/l	100
4) Vinyl Chloride	2.208	62	328645	46.327	ug/l	100
5) Bromomethane	2.598	94	260269	43.719	ug/l	99
6) Chloroethane	2.739	64	233352	48.256	ug/l	100
7) Trichlorofluoromethane	3.062	101	458034	46.501	ug/l	98
8) Diethyl Ether	3.458	74	118082	45.878	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	248291	48.577	ug/l	99
10) Methyl Iodide	4.007	142	319686	56.182	ug/l	100
11) Tert butyl alcohol	4.854	59	73953	214.015	ug/l	99
12) 1,1-Dichloroethene	3.793	96	238596	48.154	ug/l	93
13) Acrolein	3.653	56	86843	177.859	ug/l	99
14) Allyl chloride	4.391	41	285959	47.355	ug/l	99
15) Acrylonitrile	5.061	53	233918	237.482	ug/l	100
16) Acetone	3.866	43	300090	271.380	ug/l	100
17) Carbon Disulfide	4.110	76	693628	48.911	ug/l	99
18) Methyl Acetate	4.385	43	144038	49.656	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	572213	48.051	ug/l	98
20) Methylene Chloride	4.616	84	260884	43.630	ug/l	99
21) trans-1,2-Dichloroethene	5.122	96	266615	48.874	ug/l	94
22) Diisopropyl ether	6.024	45	653774	48.946	ug/l	98
23) Vinyl Acetate	5.964	43	1743565	241.160	ug/l	99
24) 1,1-Dichloroethane	5.915	63	430417	48.646	ug/l	98
25) 2-Butanone	6.896	43	329142	243.810	ug/l	97
26) 2,2-Dichloropropane	6.890	77	397500	48.961	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	314070	49.842	ug/l	97
28) Bromochloromethane	7.250	49	150362	45.522	ug/l	100
29) Tetrahydrofuran	7.268	42	182292	238.121	ug/l	100
30) Chloroform	7.421	83	479834	49.360	ug/l	99
31) Cyclohexane	7.707	56	353638	45.768	ug/l	100
32) 1,1,1-Trichloroethane	7.622	97	435710	49.321	ug/l	100
36) 1,1-Dichloropropene	7.841	75	328095	51.084	ug/l	100
37) Ethyl Acetate	6.988	43	125695	49.399	ug/l	99
38) Carbon Tetrachloride	7.823	117	396311	50.889	ug/l	98
39) Methylcyclohexane	9.109	83	424798	50.798	ug/l	99
40) Benzene	8.085	78	1044449	51.350	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023424.D
 Acq On : 10 Oct 2025 08:56
 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 10/13/2025

Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 10 15:31:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M

Quant Title : SW846 8260

QLast Update : Wed Oct 08 05:12:50 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	58712	42.664	ug/l	88
42) 1,2-Dichloroethane	8.158	62	260219	49.606	ug/l	98
43) Isopropyl Acetate	8.201	43	245687	48.423	ug/l	99
44) Trichloroethene	8.865	130	298362	50.117	ug/l	99
45) 1,2-Dichloropropane	9.146	63	229432	51.069	ug/l	99
46) Dibromomethane	9.231	93	144960	51.028	ug/l	98
47) Bromodichloromethane	9.426	83	363774	50.844	ug/l	99
48) Methyl methacrylate	9.225	41	119935	50.317	ug/l	99
49) 1,4-Dioxane	9.231	88	31607	959.616	ug/l	95
51) 4-Methyl-2-Pentanone	9.999	43	666381	254.206	ug/l	100
52) Toluene	10.170	92	689717	52.226	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	315935	50.784	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	375814	51.184	ug/l	99
55) 1,1,2-Trichloroethane	10.572	97	197178	51.615	ug/l	97
56) Ethyl methacrylate	10.438	69	229850	52.160	ug/l	99
57) 1,3-Dichloropropane	10.719	76	312833	51.678	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	529859	268.412	ug/l	99
59) 2-Hexanone	10.761	43	487876	260.425	ug/l	99
60) Dibromochloromethane	10.914	129	271656	50.720	ug/l	99
61) 1,2-Dibromoethane	11.018	107	185523	50.922	ug/l	100
64) Tetrachloroethene	10.652	164	369762	51.406	ug/l	98
65) Chlorobenzene	11.444	112	759771	50.145	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.517	131	272450	50.461	ug/l	98
67) Ethyl Benzene	11.517	91	1270547	51.805	ug/l	99
68) m/p-Xylenes	11.627	106	1030460	104.753	ug/l	99
69) o-Xylene	11.956	106	477008	51.697	ug/l	100
70) Styrene	11.969	104	802885	52.914	ug/l	100
71) Bromoform	12.133	173	166621	49.751	ug/l #	99
73) Isopropylbenzene	12.255	105	1254522	52.011	ug/l	99
74) N-amyl acetate	12.072	43	209965	48.464	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	194376	49.271	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	149021m	46.149	ug/l	
77) Bromobenzene	12.529	156	318098	49.607	ug/l	99
78) n-propylbenzene	12.597	91	1464919	52.483	ug/l	100
79) 2-Chlorotoluene	12.682	91	831271	50.857	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	1019369	52.300	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	65787	49.958	ug/l	99
82) 4-Chlorotoluene	12.779	91	859313	51.047	ug/l	99
83) tert-Butylbenzene	12.999	119	924459	51.370	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1010789	51.964	ug/l	99
85) sec-Butylbenzene	13.176	105	1340178	51.914	ug/l	100
86) p-Isopropyltoluene	13.291	119	1147624	52.213	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	616351	49.360	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	598401	48.522	ug/l	99
89) n-Butylbenzene	13.615	91	990301	51.708	ug/l	99
90) Hexachloroethane	13.877	117	232110	49.099	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	540012	49.327	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	30627	47.315	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	312850	45.839	ug/l	99
94) Hexachlorobutadiene	15.023	225	201594	47.385	ug/l	99
95) Naphthalene	15.145	128	488839	44.979	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	268202	45.368	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023424.D
Acq On : 10 Oct 2025 08:56
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 10/13/2025
Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 10 15:31:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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\VY101025\
 Data File : VY023424.D
 Acq On : 10 Oct 2025 08:56
 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 10/13/2025
 Supervised By :Semsettin Yesilyurt 10/13/2025

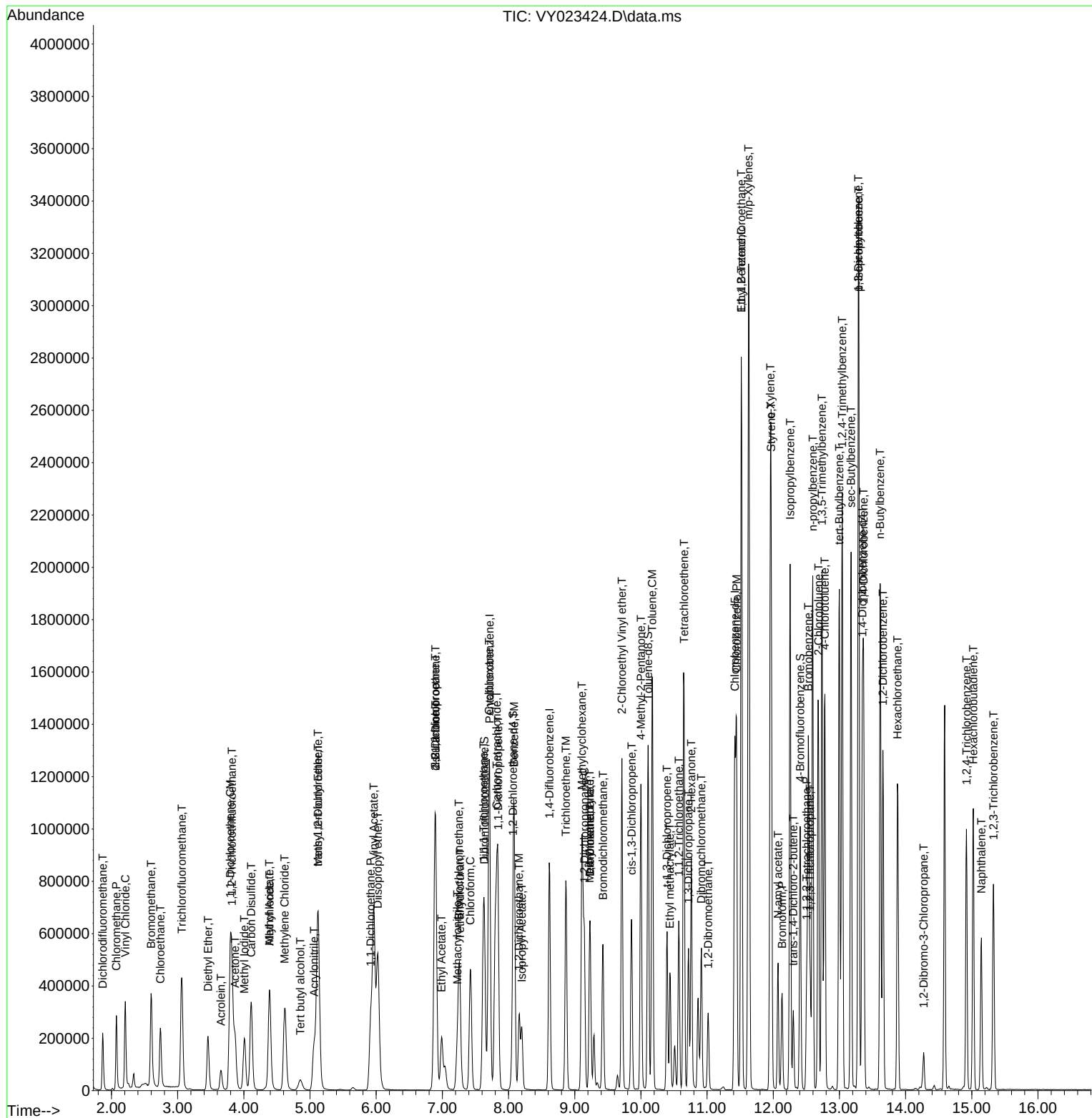
Quant Time: Oct 10 15:31:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M

Quant Title : SW846 8260

QLast Update : Wed Oct 08 05:12:50 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023424.D
 Acq On : 10 Oct 2025 08:56
 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: Oct 10 15:31:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 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	94	0.00
2 T	Dichlorodifluoromethane	0.360	0.316	12.2	93	0.00
3 P	Chloromethane	0.490	0.435	11.2	91	0.00
4 C	Vinyl Chloride	0.639	0.592	7.4#	93	0.00
5 T	Bromomethane	0.536	0.469	12.5	94	0.00
6 T	Chloroethane	0.435	0.420	3.4	95	0.00
7 T	Trichlorofluoromethane	0.887	0.825	7.0	92	0.00
8 T	Diethyl Ether	0.232	0.213	8.2	93	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.460	0.447	2.8	96	0.00
10 T	Methyl Iodide	0.512	0.576	-12.5	101	0.00
11 T	Tert butyl alcohol	0.031	0.027	12.9	100	0.00
12 CM	1,1-Dichloroethene	0.446	0.430	3.6#	95	0.00
13 T	Acrolein	0.044	0.031	29.5#	70	0.00
14 T	Allyl chloride	0.544	0.515	5.3	92	0.01
15 T	Acrylonitrile	0.089	0.084	5.6	97	0.00
16 T	Acetone	0.100	0.108	-8.0	121	0.00
17 T	Carbon Disulfide	1.277	1.249	2.2	96	0.00
18 T	Methyl Acetate	0.261	0.259	0.8	99	0.00
19 T	Methyl tert-butyl Ether	1.072	1.030	3.9	95	0.00
20 T	Methylene Chloride	0.538	0.470	12.6	96	0.00
21 T	trans-1,2-Dichloroethene	0.491	0.480	2.2	96	0.01
22 T	Diisopropyl ether	1.202	1.177	2.1	95	0.00
23 T	Vinyl Acetate	0.651	0.628	3.5	95	0.00
24 P	1,1-Dichloroethane	0.796	0.775	2.6	96	0.00
25 T	2-Butanone	0.122	0.119	2.5	106	0.00
26 T	2,2-Dichloropropane	0.731	0.716	2.1	95	0.00
27 T	cis-1,2-Dichloroethene	0.567	0.565	0.4	98	0.00
28 T	Bromochloromethane	0.297	0.271	8.8	96	0.00
29 T	Tetrahydrofuran	0.069	0.066	4.3	97	0.00
30 C	Chloroform	0.875	0.864	1.3#	97	0.00
31 T	Cyclohexane	0.696	0.637	8.5	93	0.00
32 T	1,1,1-Trichloroethane	0.795	0.784	1.4	96	0.00
33 S	1,2-Dichloroethane-d4	0.418	0.381	8.9	91	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35 S	Dibromofluoromethane	0.307	0.297	3.3	91	0.00
36 T	1,1-Dichloropropene	0.407	0.416	-2.2	96	0.00
37 T	Ethyl Acetate	0.161	0.159	1.2	97	0.00
38 T	Carbon Tetrachloride	0.493	0.502	-1.8	96	0.00
39 T	Methylcyclohexane	0.530	0.538	-1.5	94	0.00
40 TM	Benzene	1.288	1.323	-2.7	97	0.00
41 T	Methacrylonitrile	0.087	0.074	14.9	86	0.00
42 TM	1,2-Dichloroethane	0.332	0.330	0.6	96	0.00
43 T	Isopropyl Acetate	0.321	0.311	3.1	95	0.00
44 TM	Trichloroethene	0.377	0.378	-0.3	95	0.00
45 C	1,2-Dichloropropane	0.285	0.291	-2.1#	98	0.00
46 T	Dibromomethane	0.180	0.184	-2.2	97	0.00
47 T	Bromodichloromethane	0.453	0.461	-1.8	96	0.00
48 T	Methyl methacrylate	0.151	0.152	-0.7	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023424.D
 Acq On : 10 Oct 2025 08:56
 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: Oct 10 15:31:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 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	0.00
50 S	Toluene-d8	1.144	1.117	2.4	91	0.00
51 T	4-Methyl-2-Pentanone	0.166	0.169	-1.8	98	0.00
52 CM	Toluene	0.836	0.874	-4.5#	97	0.00
53 T	t-1,3-Dichloropropene	0.394	0.400	-1.5	96	0.00
54 T	cis-1,3-Dichloropropene	0.465	0.476	-2.4	96	0.00
55 T	1,1,2-Trichloroethane	0.242	0.250	-3.3	99	0.00
56 T	Ethyl methacrylate	0.279	0.291	-4.3	96	0.00
57 T	1,3-Dichloropropane	0.383	0.396	-3.4	97	0.00
58 T	2-Chloroethyl Vinyl ether	0.125	0.134	-7.2	96	0.00
59 T	2-Hexanone	0.119	0.124	-4.2	102	0.00
60 T	Dibromochloromethane	0.339	0.344	-1.5	97	0.00
61 T	1,2-Dibromoethane	0.231	0.235	-1.7	97	0.00
62 S	4-Bromofluorobenzene	0.378	0.363	4.0	92	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
64 T	Tetrachloroethene	0.516	0.531	-2.9	94	0.00
65 PM	Chlorobenzene	1.087	1.091	-0.4	96	0.00
66 T	1,1,1,2-Tetrachloroethane	0.388	0.391	-0.8	97	0.00
67 C	Ethyl Benzene	1.760	1.824	-3.6#	95	0.00
68 T	m/p-Xylenes	0.706	0.740	-4.8	96	0.00
69 T	o-Xylene	0.662	0.685	-3.5	95	0.00
70 T	Styrene	1.089	1.153	-5.9	97	0.00
71 P	Bromoform	0.240	0.239	0.4	97	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73 T	Isopropylbenzene	3.295	3.428	-4.0	96	0.00
74 T	N-amyl acetate	0.592	0.574	3.0	92	0.00
75 P	1,1,2,2-Tetrachloroethane	0.539	0.531	1.5	99	0.00
76 T	1,2,3-Trichloropropane	0.441	0.407	7.7	88	0.00
77 T	Bromobenzene	0.876	0.869	0.8	96	0.00
78 T	n-propylbenzene	3.813	4.002	-5.0	96	0.00
79 T	2-Chlorotoluene	2.233	2.271	-1.7	95	0.00
80 T	1,3,5-Trimethylbenzene	2.663	2.785	-4.6	96	0.00
81 T	trans-1,4-Dichloro-2-butene	0.180	0.180	0.0	99	0.00
82 T	4-Chlorotoluene	2.300	2.348	-2.1	96	0.00
83 T	tert-Butylbenzene	2.458	2.526	-2.8	93	0.00
84 T	1,2,4-Trimethylbenzene	2.657	2.762	-4.0	95	0.00
85 T	sec-Butylbenzene	3.527	3.662	-3.8	95	0.00
86 T	p-Isopropyltoluene	3.003	3.136	-4.4	95	0.00
87 T	1,3-Dichlorobenzene	1.706	1.684	1.3	95	0.00
88 T	1,4-Dichlorobenzene	1.685	1.635	3.0	94	0.00
89 T	n-Butylbenzene	2.616	2.706	-3.4	94	0.00
90 T	Hexachloroethane	0.646	0.634	1.9	95	0.00
91 T	1,2-Dichlorobenzene	1.496	1.475	1.4	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.088	0.084	4.5	94	0.00
93 T	1,2,4-Trichlorobenzene	0.932	0.855	8.3	87	0.00
94 T	Hexachlorobutadiene	0.581	0.551	5.2	89	0.00
95 T	Naphthalene	1.485	1.336	10.0	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023424.D
Acq On : 10 Oct 2025 08:56
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: Oct 10 15:31:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	0.808	0.733	9.3	86	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023424.D
 Acq On : 10 Oct 2025 08:56
 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: Oct 10 15:31:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 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	94	0.00
2 T	Dichlorodifluoromethane	50.000	43.961	12.1	93	0.00
3 P	Chloromethane	50.000	44.408	11.2	91	0.00
4 C	Vinyl Chloride	50.000	46.327	7.3#	93	0.00
5 T	Bromomethane	50.000	43.719	12.6	94	0.00
6 T	Chloroethane	50.000	48.256	3.5	95	0.00
7 T	Trichlorofluoromethane	50.000	46.501	7.0	92	0.00
8 T	Diethyl Ether	50.000	45.878	8.2	93	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.577	2.8	96	0.00
10 T	Methyl Iodide	50.000	56.182	-12.4	101	0.00
11 T	Tert butyl alcohol	250.000	214.015	14.4	100	0.00
12 CM	1,1-Dichloroethene	50.000	48.154	3.7#	95	0.00
13 T	Acrolein	250.000	177.859	28.9#	70	0.00
14 T	Allyl chloride	50.000	47.355	5.3	92	0.01
15 T	Acrylonitrile	250.000	237.482	5.0	97	0.00
16 T	Acetone	250.000	271.380	-8.6	121	0.00
17 T	Carbon Disulfide	50.000	48.911	2.2	96	0.00
18 T	Methyl Acetate	50.000	49.656	0.7	99	0.00
19 T	Methyl tert-butyl Ether	50.000	48.051	3.9	95	0.00
20 T	Methylene Chloride	50.000	43.630	12.7	96	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.874	2.3	96	0.01
22 T	Diisopropyl ether	50.000	48.946	2.1	95	0.00
23 T	Vinyl Acetate	250.000	241.160	3.5	95	0.00
24 P	1,1-Dichloroethane	50.000	48.646	2.7	96	0.00
25 T	2-Butanone	250.000	243.810	2.5	106	0.00
26 T	2,2-Dichloropropane	50.000	48.961	2.1	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.842	0.3	98	0.00
28 T	Bromochloromethane	50.000	45.522	9.0	96	0.00
29 T	Tetrahydrofuran	250.000	238.121	4.8	97	0.00
30 C	Chloroform	50.000	49.360	1.3#	97	0.00
31 T	Cyclohexane	50.000	45.768	8.5	93	0.00
32 T	1,1,1-Trichloroethane	50.000	49.321	1.4	96	0.00
33 S	1,2-Dichloroethane-d4	50.000	45.510	9.0	91	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35 S	Dibromofluoromethane	50.000	48.306	3.4	91	0.00
36 T	1,1-Dichloropropene	50.000	51.084	-2.2	96	0.00
37 T	Ethyl Acetate	50.000	49.399	1.2	97	0.00
38 T	Carbon Tetrachloride	50.000	50.889	-1.8	96	0.00
39 T	Methylcyclohexane	50.000	50.798	-1.6	94	0.00
40 TM	Benzene	50.000	51.350	-2.7	97	0.00
41 T	Methacrylonitrile	50.000	42.664	14.7	86	0.00
42 TM	1,2-Dichloroethane	50.000	49.606	0.8	96	0.00
43 T	Isopropyl Acetate	50.000	48.423	3.2	95	0.00
44 TM	Trichloroethene	50.000	50.117	-0.2	95	0.00
45 C	1,2-Dichloropropane	50.000	51.069	-2.1#	98	0.00
46 T	Dibromomethane	50.000	51.028	-2.1	97	0.00
47 T	Bromodichloromethane	50.000	50.844	-1.7	96	0.00
48 T	Methyl methacrylate	50.000	50.317	-0.6	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023424.D
 Acq On : 10 Oct 2025 08:56
 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: Oct 10 15:31:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	959.616	4.0	93	0.00
50 S	Toluene-d8	50.000	48.819	2.4	91	0.00
51 T	4-Methyl-2-Pentanone	250.000	254.206	-1.7	98	0.00
52 CM	Toluene	50.000	52.226	-4.5#	97	0.00
53 T	t-1,3-Dichloropropene	50.000	50.784	-1.6	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.184	-2.4	96	0.00
55 T	1,1,2-Trichloroethane	50.000	51.615	-3.2	99	0.00
56 T	Ethyl methacrylate	50.000	52.160	-4.3	96	0.00
57 T	1,3-Dichloropropane	50.000	51.678	-3.4	97	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	268.412	-7.4	96	0.00
59 T	2-Hexanone	250.000	260.425	-4.2	102	0.00
60 T	Dibromochloromethane	50.000	50.720	-1.4	97	0.00
61 T	1,2-Dibromoethane	50.000	50.922	-1.8	97	0.00
62 S	4-Bromofluorobenzene	50.000	48.113	3.8	92	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	93	0.00
64 T	Tetrachloroethene	50.000	51.406	-2.8	94	0.00
65 PM	Chlorobenzene	50.000	50.145	-0.3	96	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.461	-0.9	97	0.00
67 C	Ethyl Benzene	50.000	51.805	-3.6#	95	0.00
68 T	m/p-Xylenes	100.000	104.753	-4.8	96	0.00
69 T	o-Xylene	50.000	51.697	-3.4	95	0.00
70 T	Styrene	50.000	52.914	-5.8	97	0.00
71 P	Bromoform	50.000	49.751	0.5	97	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73 T	Isopropylbenzene	50.000	52.011	-4.0	96	0.00
74 T	N-amyl acetate	50.000	48.464	3.1	92	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.271	1.5	99	0.00
76 T	1,2,3-Trichloropropane	50.000	46.149	7.7	88	0.00
77 T	Bromobenzene	50.000	49.607	0.8	96	0.00
78 T	n-propylbenzene	50.000	52.483	-5.0	96	0.00
79 T	2-Chlorotoluene	50.000	50.857	-1.7	95	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.300	-4.6	96	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.958	0.1	99	0.00
82 T	4-Chlorotoluene	50.000	51.047	-2.1	96	0.00
83 T	tert-Butylbenzene	50.000	51.370	-2.7	93	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.964	-3.9	95	0.00
85 T	sec-Butylbenzene	50.000	51.914	-3.8	95	0.00
86 T	p-Isopropyltoluene	50.000	52.213	-4.4	95	0.00
87 T	1,3-Dichlorobenzene	50.000	49.360	1.3	95	0.00
88 T	1,4-Dichlorobenzene	50.000	48.522	3.0	94	0.00
89 T	n-Butylbenzene	50.000	51.708	-3.4	94	0.00
90 T	Hexachloroethane	50.000	49.099	1.8	95	0.00
91 T	1,2-Dichlorobenzene	50.000	49.327	1.3	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	47.315	5.4	94	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.839	8.3	87	0.00
94 T	Hexachlorobutadiene	50.000	47.385	5.2	89	0.00
95 T	Naphthalene	50.000	44.979	10.0	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023424.D
Acq On : 10 Oct 2025 08:56
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: Oct 10 15:31:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	45.368	9.3	86	0.00

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



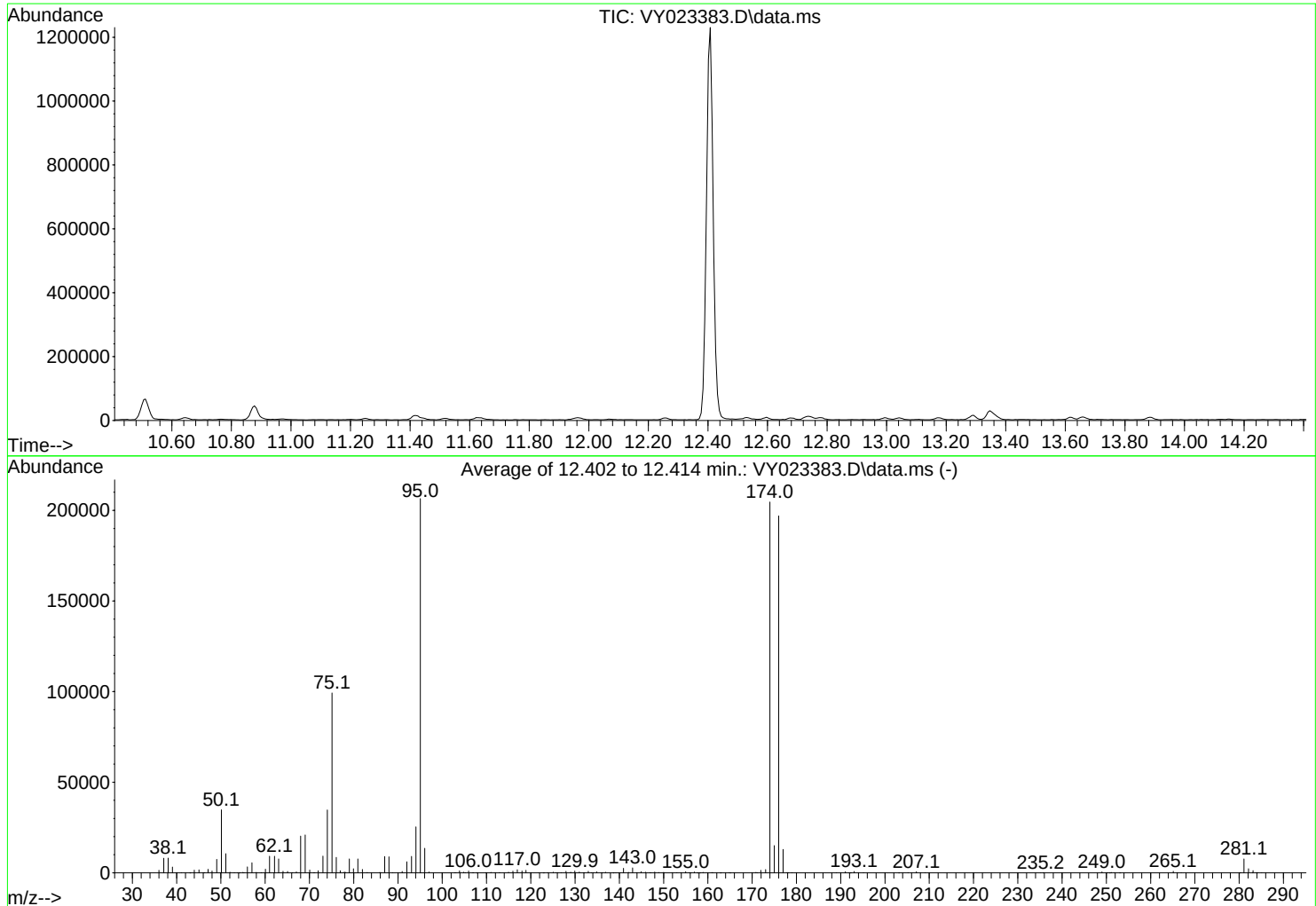
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023383.D
Acq On : 07 Oct 2025 08:43
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\82Y100725S.M
Title : SW846 8260
Last Update : Wed Oct 08 05:12:50 2025



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

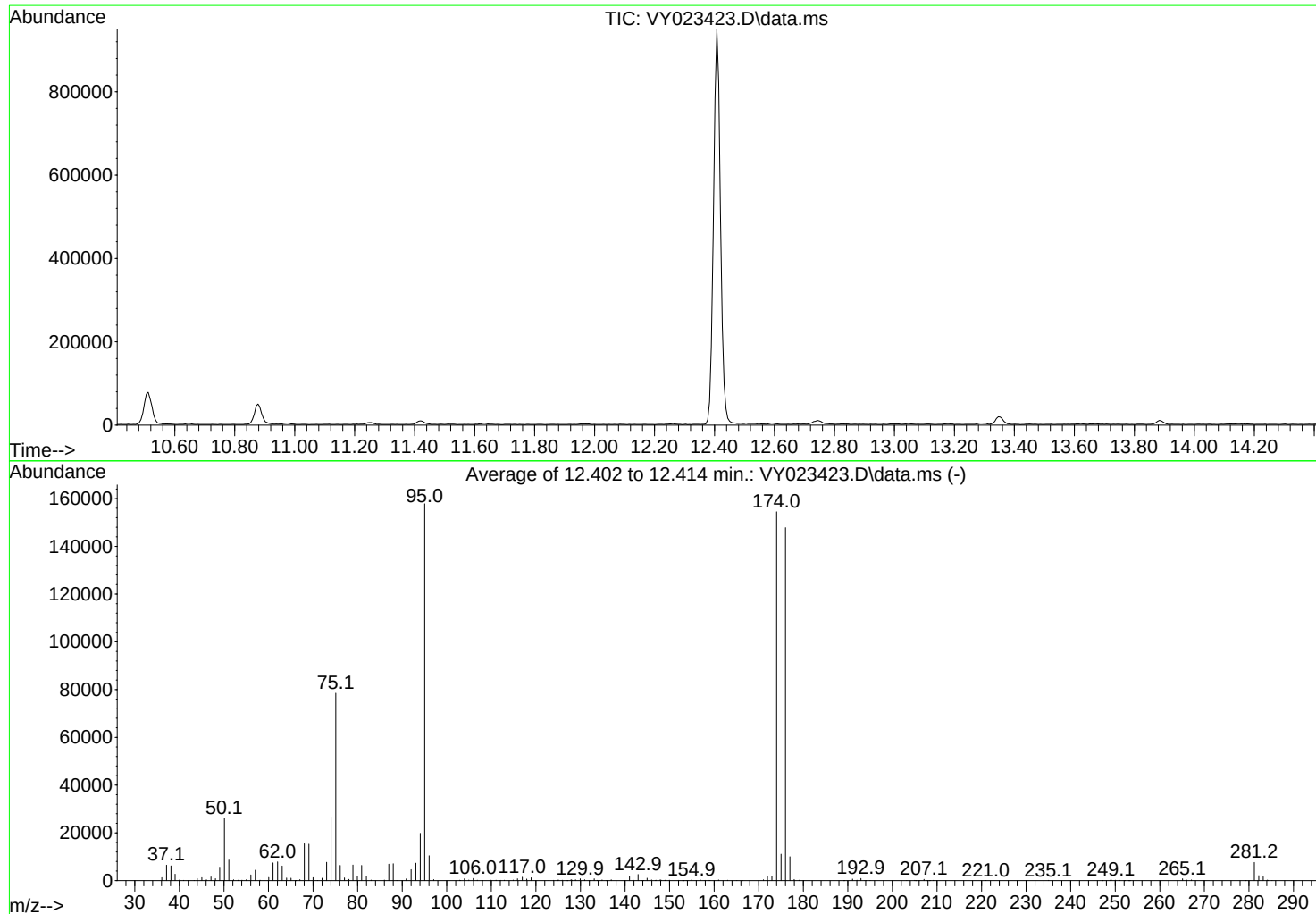
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	34816	PASS
75	95	30	60	48.1	99264	PASS
95	95	100	100	100.0	206507	PASS
96	95	5	9	6.6	13540	PASS
173	174	0.00	2	0.9	1817	PASS
174	95	50	100	99.1	204629	PASS
175	174	5	9	7.4	15059	PASS
176	174	95	101	96.2	196949	PASS
177	176	5	9	6.6	12912	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023423.D
Acq On : 10 Oct 2025 08:26
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Title : SW846 8260
Last Update : Wed Oct 08 05:12:50 2025



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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	26141	PASS
75	95	30	60	49.7	78504	PASS
95	95	100	100	100.0	157845	PASS
96	95	5	9	6.6	10429	PASS
173	174	0.00	2	1.2	1881	PASS
174	95	50	100	97.9	154496	PASS
175	174	5	9	7.2	11085	PASS
176	174	95	101	95.7	147837	PASS
177	176	5	9	6.8	9996	PASS

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	
Project:	Con Edison Richmond Terrace		Date Received:	
Client Sample ID:	VY1010SBL01		SDG No.:	Q3323
Lab Sample ID:	VY1010SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023425.D	1	10/10/25 09:25	VY101025

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:	Langan Engineering and Environmental Services, Inc		Date Collected:	
Project:	Con Edison Richmond Terrace		Date Received:	
Client Sample ID:	VY1010SBL01		SDG No.:	Q3323
Lab Sample ID:	VY1010SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023425.D	1	10/10/25 09:25	VY101025

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	59.2		63 - 155	118%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	52.3		74 - 123	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		17 - 146	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	584000	7.713			
540-36-3	1,4-Difluorobenzene	1140000	8.616			
3114-55-4	Chlorobenzene-d5	1120000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	460000	13.346			



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

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	
Project:	Con Edison Richmond Terrace		Date Received:	
Client Sample ID:	VY1010SBL01		SDG No.:	Q3323
Lab Sample ID:	VY1010SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023425.D	1	10/10/25 09:25	VY101025

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\VY101025\
 Data File : VY023425.D
 Acq On : 10 Oct 2025 09:25
 Operator : SY/MD
 Sample : VY1010SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1010SBL01

Quant Time: Oct 10 15:32:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	583718	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1135832	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1117193	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	460059	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	288786	59.164	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	118.320%
35) Dibromofluoromethane	7.640	113	373680	53.542	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	107.080%
50) Toluene-d8	10.109	98	1360539	52.346	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	104.700%
62) 4-Bromofluorobenzene	12.408	95	429222	50.020	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	100.040%

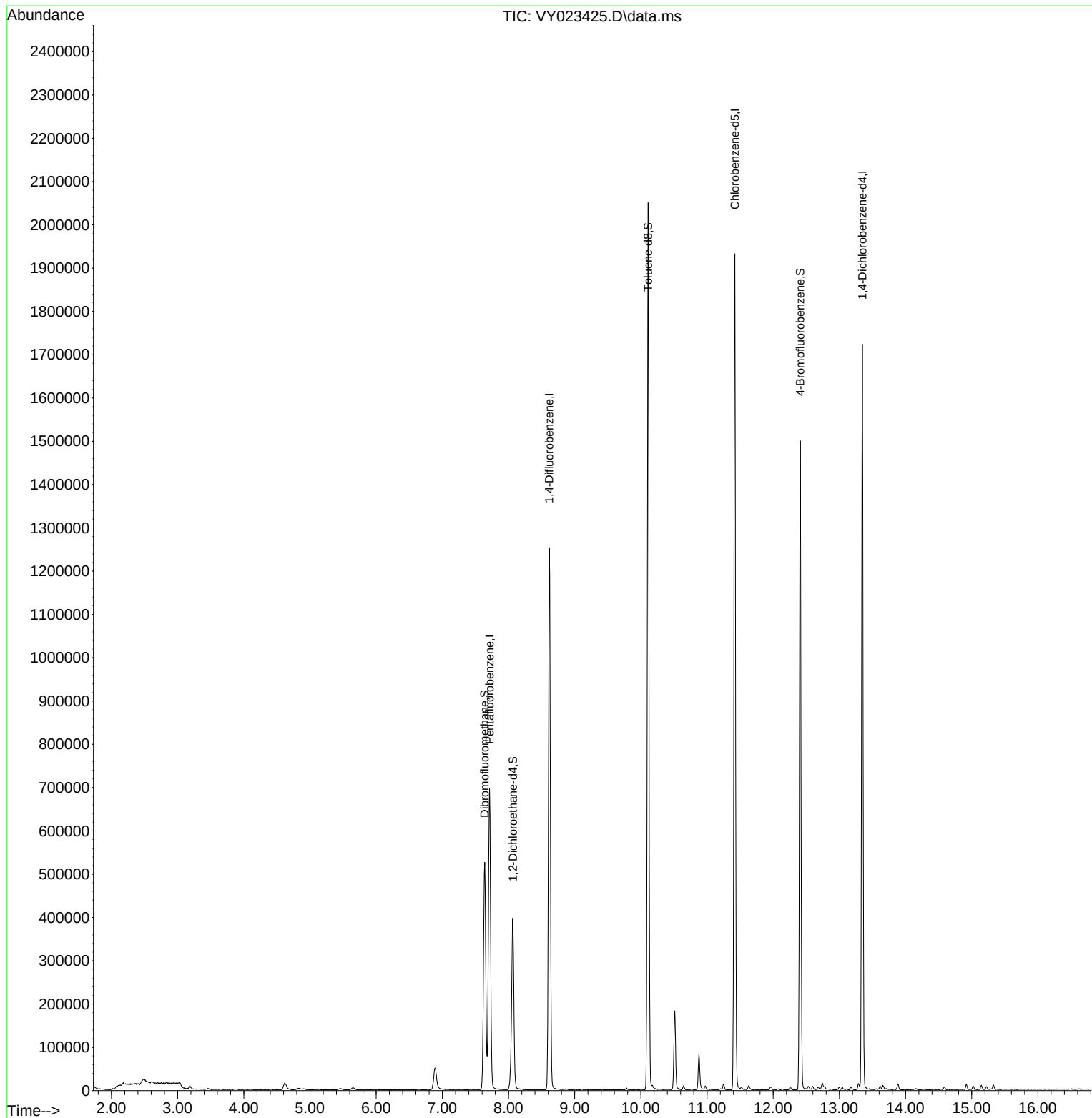
Target Compounds	Qvalue

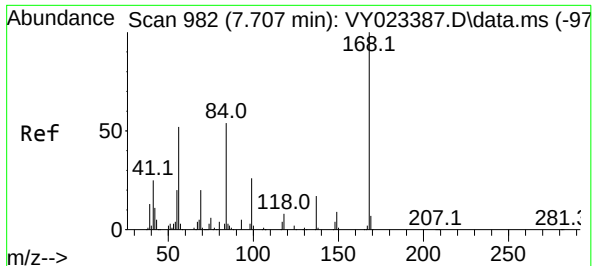
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023425.D
Acq On : 10 Oct 2025 09:25
Operator : SY/MD
Sample : VY1010SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1010SBL01

Quant Time: Oct 10 15:32:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

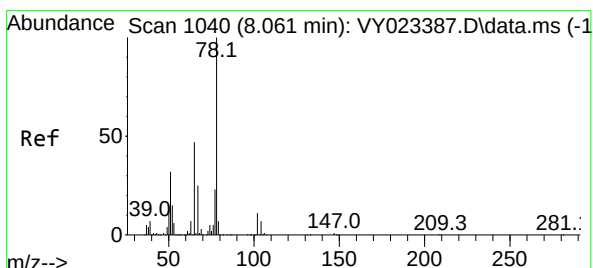
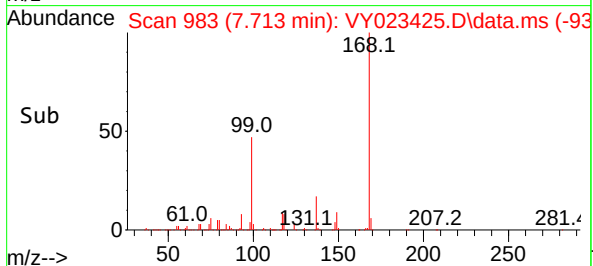
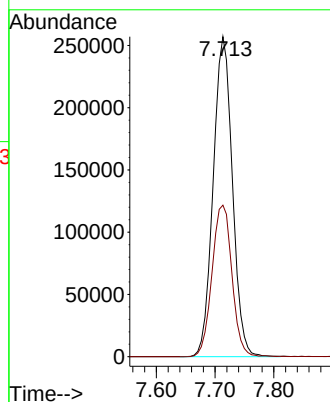
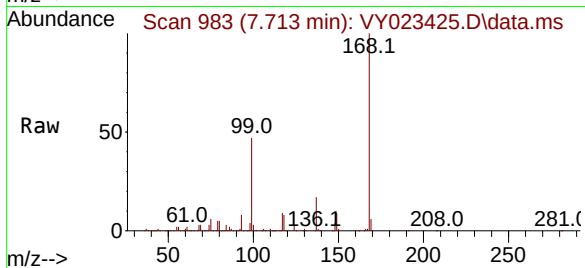




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY023425.D
Acq: 10 Oct 2025 09:25

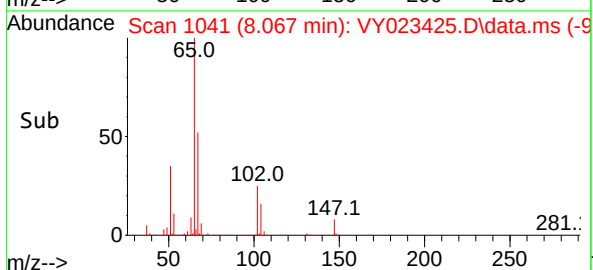
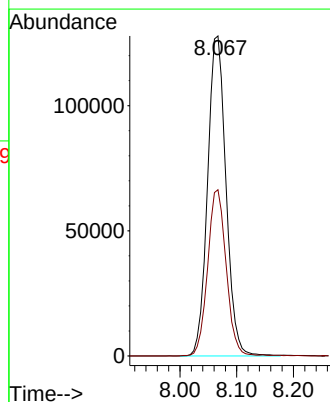
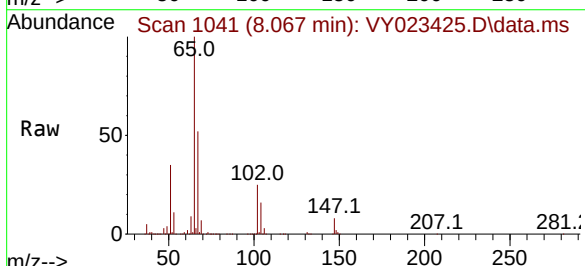
Instrument :
MSVOA_Y
ClientSampleId :
VY1010SBL01

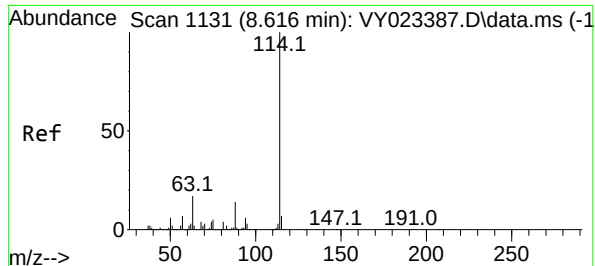
Tgt Ion:168 Resp: 583718
Ion Ratio Lower Upper
168 100
99 47.3 39.7 59.5



#33
1,2-Dichloroethane-d4
Concen: 59.164 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023425.D
Acq: 10 Oct 2025 09:25

Tgt Ion: 65 Resp: 288786
Ion Ratio Lower Upper
65 100
67 52.2 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023425.D

Acq: 10 Oct 2025 09:25

Instrument :

MSVOA_Y

ClientSampleId :

VY1010SBL01

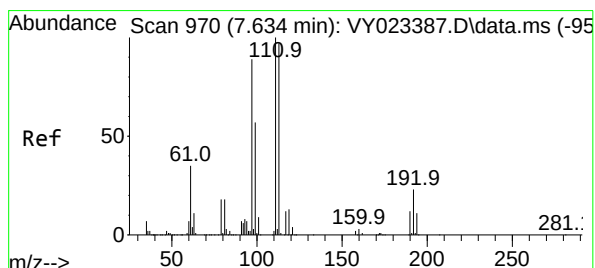
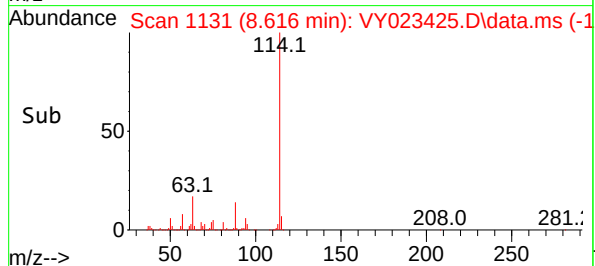
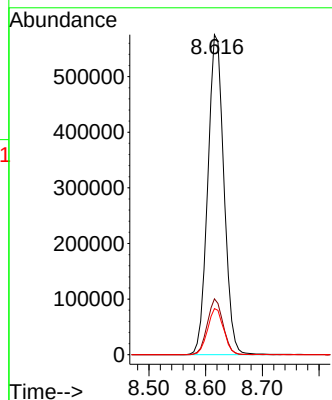
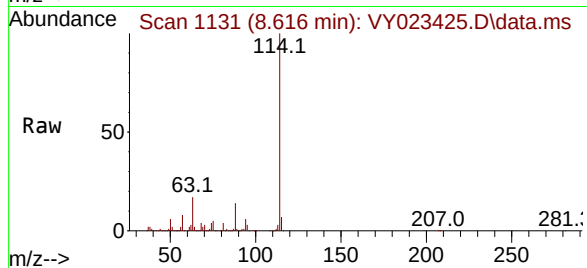
Tgt Ion:114 Resp: 1135832

Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.2

88 14.4 0.0 28.4



#35

Dibromofluoromethane

Concen: 53.542 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY023425.D

Acq: 10 Oct 2025 09:25

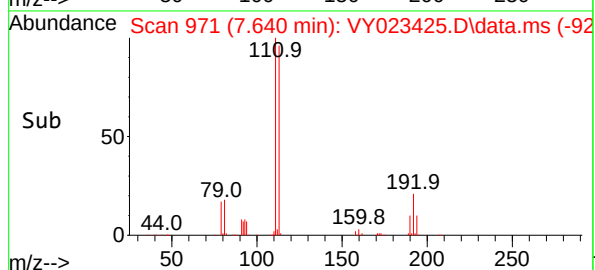
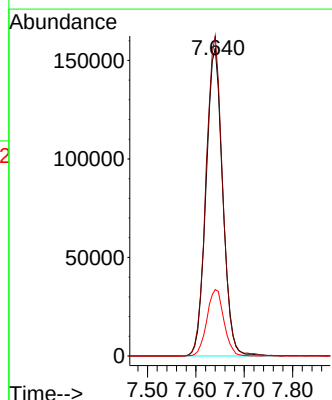
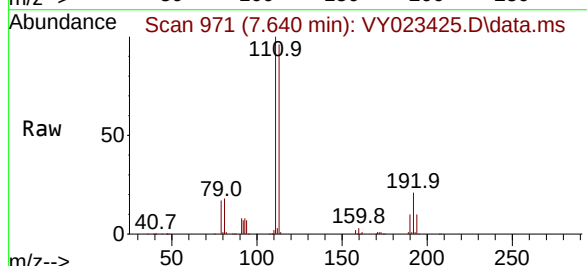
Tgt Ion:113 Resp: 373680

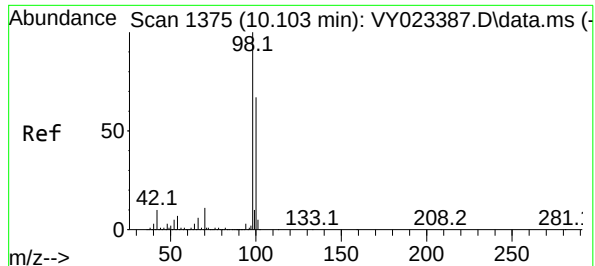
Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.6

192 22.0 18.0 27.0





#50

Toluene-d8

Concen: 52.346 ug/l

RT: 10.109 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023425.D

Acq: 10 Oct 2025 09:25

Instrument :

MSVOA_Y

ClientSampleId :

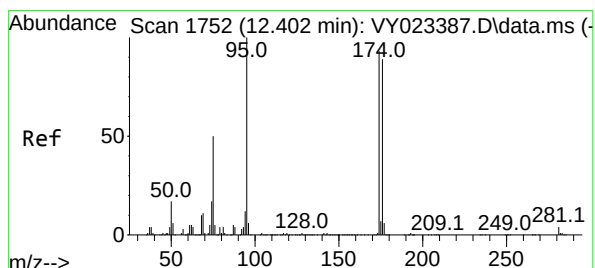
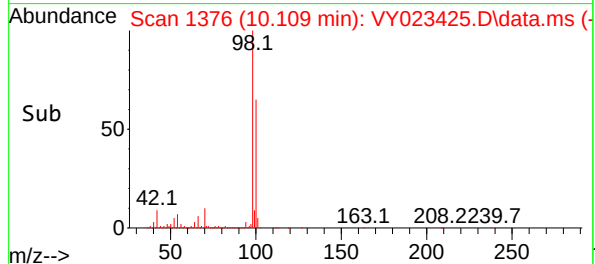
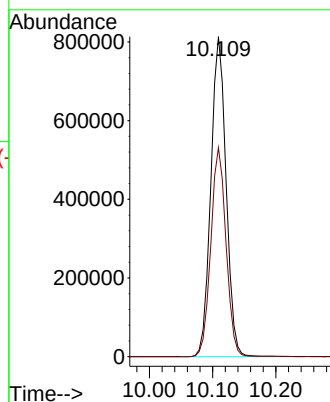
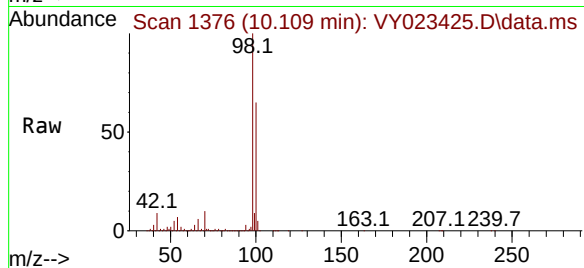
VY1010SBL01

Tgt Ion: 98 Resp: 1360539

Ion Ratio Lower Upper

98 100

100 65.3 53.0 79.4



#62

4-Bromofluorobenzene

Concen: 50.020 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY023425.D

Acq: 10 Oct 2025 09:25

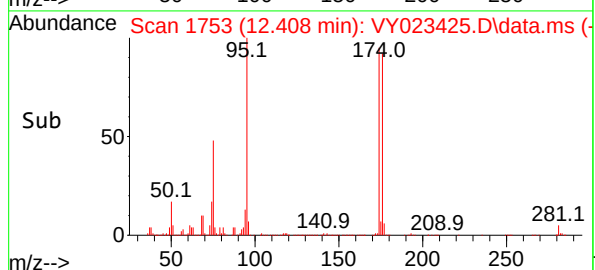
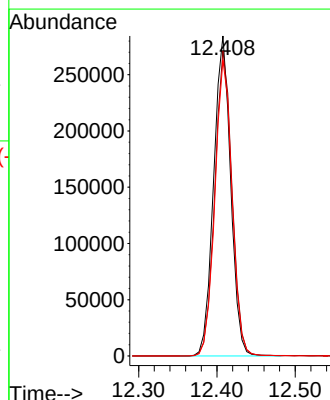
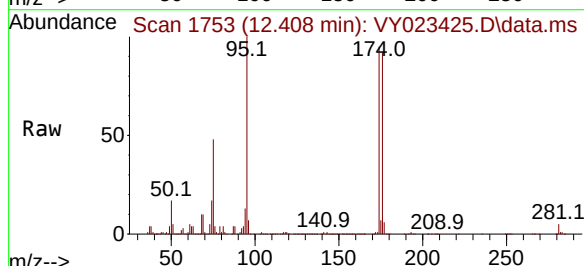
Tgt Ion: 95 Resp: 429222

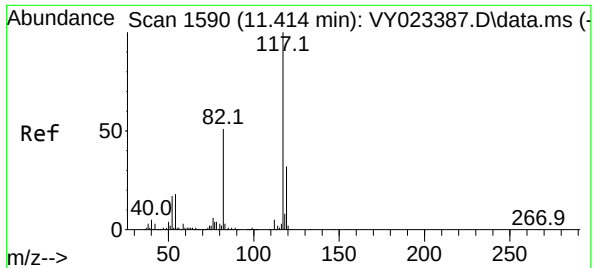
Ion Ratio Lower Upper

95 100

174 96.8 0.0 192.8

176 93.1 0.0 187.6

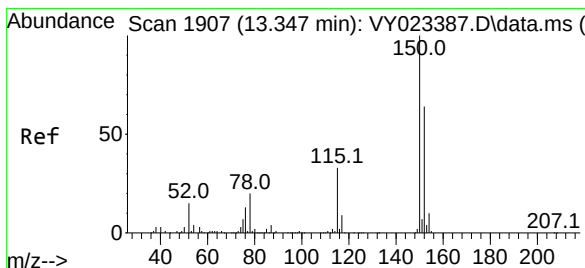
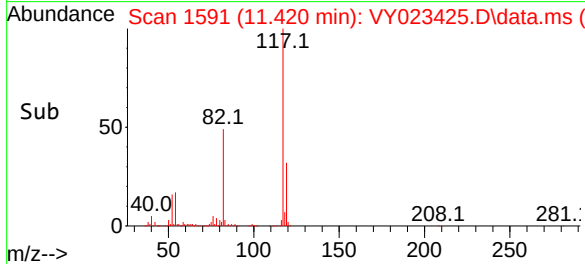
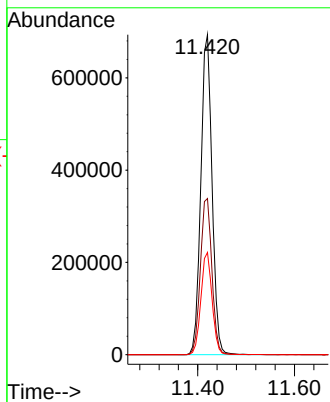
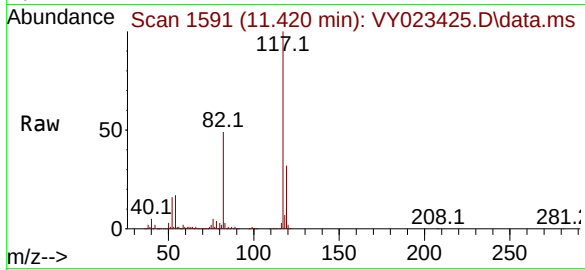




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1117193
Delta R.T. 0.006 min
Lab File: VY023425.D
Acq: 10 Oct 2025 09:25

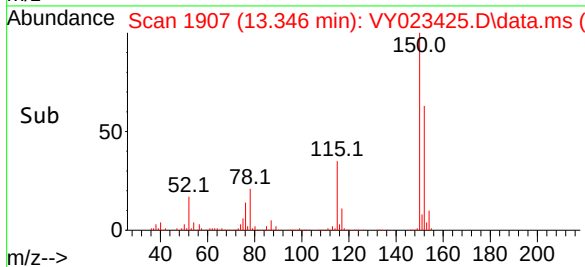
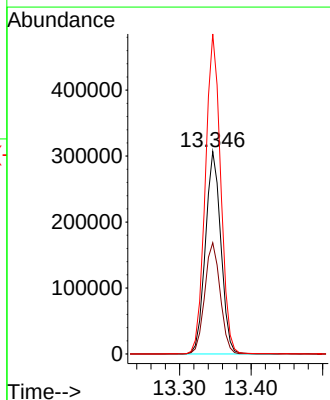
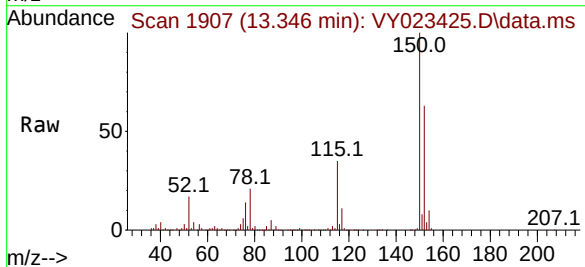
Instrument :
MSVOA_Y
ClientSampleId :
VY1010SBL01

Tgt Ion:117 Resp: 1117193
Ion Ratio Lower Upper
117 100
82 48.8 41.0 61.4
119 32.0 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023425.D
Acq: 10 Oct 2025 09:25

Tgt Ion:152 Resp: 460059
Ion Ratio Lower Upper
152 100
115 54.9 27.1 81.2
150 156.6 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023425.D
Acq On : 10 Oct 2025 09:25
Operator : SY/MD
Sample : VY1010SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1010SBL01

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\82Y100725S.M

Title : SW846 8260

Signal : TIC: VY023425.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	466	475	489	rBV3	15171	49793	1.44%	0.268%
2	6.890	836	848	863	rBV2	50219	167390	4.83%	0.899%
3	7.640	960	971	977	rBV	524961	1257527	36.30%	6.757%
4	7.713	977	983	1001	rVB	694052	1589389	45.88%	8.541%
5	8.061	1028	1040	1059	rBV2	395603	966136	27.89%	5.192%
6	8.616	1122	1131	1150	rBV	1252912	2473367	71.39%	13.291%
7	10.109	1367	1376	1385	rBV	2049410	3464379	100.00%	18.616%
8	10.512	1434	1442	1450	rBV	182528	334913	9.67%	1.800%
9	10.877	1494	1502	1512	rBV	82677	144076	4.16%	0.774%
10	11.420	1583	1591	1604	rBV	1931241	3184170	91.91%	17.111%
11	12.408	1746	1753	1765	rBV	1499602	2374968	68.55%	12.762%
12	13.346	1901	1907	1921	rVB	1721602	2603335	75.15%	13.989%

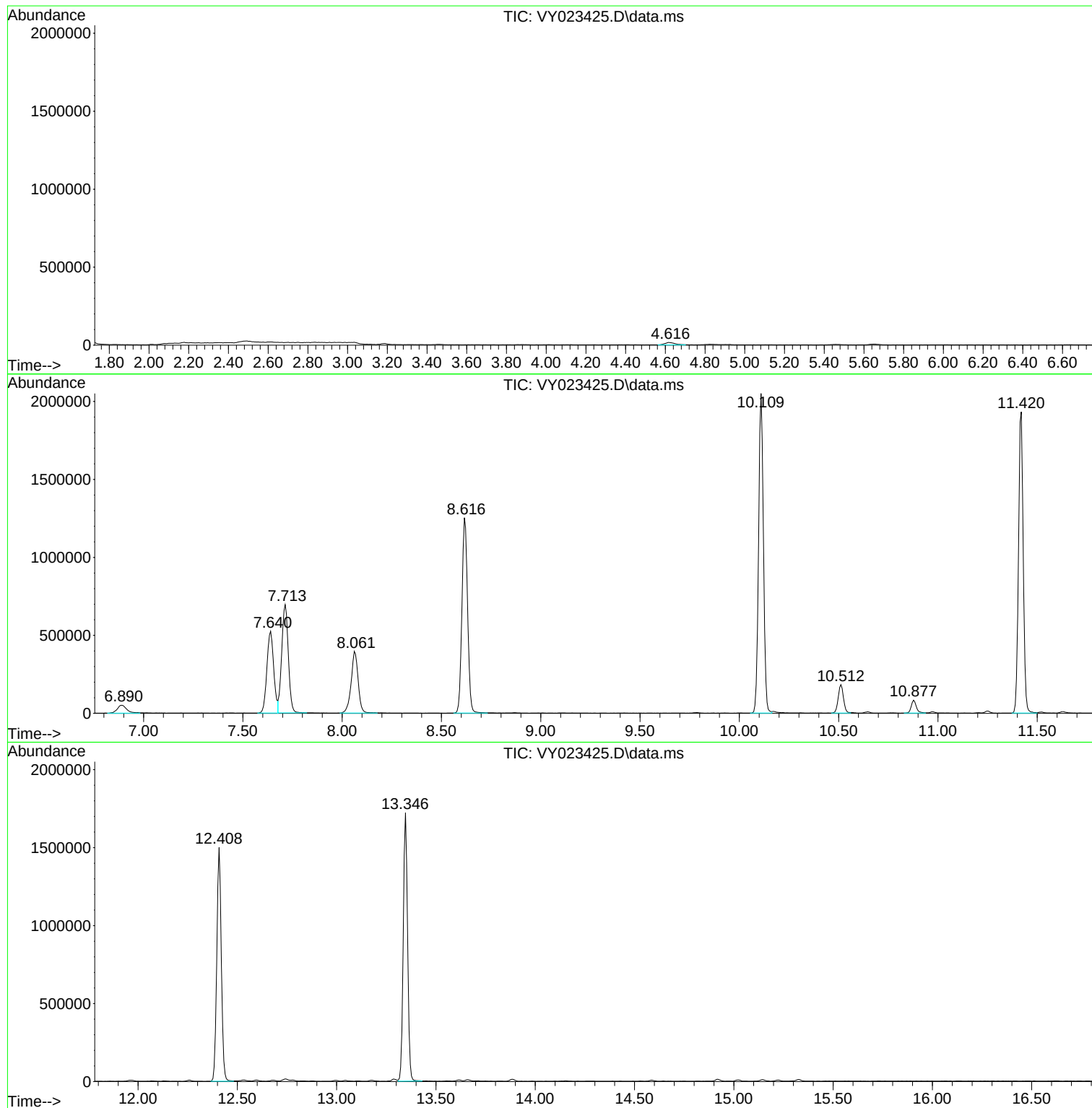
Sum of corrected areas: 18609443

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023425.D
Acq On : 10 Oct 2025 09:25
Operator : SY/MD
Sample : VY1010SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1010SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023425.D
Acq On : 10 Oct 2025 09:25
Operator : SY/MD
Sample : VY1010SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1010SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.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\VY101025\
Data File : VY023425.D
Acq On : 10 Oct 2025 09:25
Operator : SY/MD
Sample : VY1010SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1010SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

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

Client:	Langan Engineering and Environmental Services, Inc			Date Collected:	
Project:	Con Edison Richmond Terrace			Date Received:	
Client Sample ID:	VY1010SBS01			SDG No.:	Q3323
Lab Sample ID:	VY1010SBS01			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023426.D	1	10/10/25 09:54	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.3		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.6		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.8		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.6		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.1		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	14.3		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.7		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.1		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.1		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.1		0.79	5.00	ug/Kg
78-93-3	2-Butanone	96.9		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.4		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.9		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.3		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.7		0.91	5.00	ug/Kg
71-43-2	Benzene	21.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.8		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.7		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	82.1		3.60	25.0	ug/Kg
108-88-3	Toluene	21.6		0.78	5.00	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc			Date Collected:	
Project:	Con Edison Richmond Terrace			Date Received:	
Client Sample ID:	VY1010SBS01			SDG No.:	Q3323
Lab Sample ID:	VY1010SBS01			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023426.D	1	10/10/25 09:54	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	90.7		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.7		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.8		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	43.0		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.6		0.82	5.00	ug/Kg
100-42-5	Styrene	20.5		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.1		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.2		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.2		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.8		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.6		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.3		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	15.7		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.4		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.7		63 - 155	91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	49.4		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		17 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	543000	7.713			
540-36-3	1,4-Difluorobenzene	800000	8.616			
3114-55-4	Chlorobenzene-d5	702000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	364000	13.346			

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	
Project:	Con Edison Richmond Terrace	Date Received:	
Client Sample ID:	VY1010SBS01	SDG No.:	Q3323
Lab Sample ID:	VY1010SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023426.D	1	10/10/25 09:54	VY101025

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\VY101025\
 Data File : VY023426.D
 Acq On : 10 Oct 2025 09:54
 Operator : SY/MD
 Sample : VY1010SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1010SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/13/2025
 Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 10 15:33:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	543174	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	799579	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	702444	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	363757	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	207443	45.671	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.340%
35) Dibromofluoromethane	7.634	113	238725	48.590	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.180%
50) Toluene-d8	10.109	98	904538	49.437	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.880%
62) 4-Bromofluorobenzene	12.408	95	285474	47.259	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	94.520%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.867	85	86749	22.188	ug/l	97
3) Chloromethane	2.074	50	108746	20.418	ug/l	95
4) Vinyl Chloride	2.208	62	146194	21.074	ug/l	99
5) Bromomethane	2.598	94	124242	21.342	ug/l	99
6) Chloroethane	2.739	64	102268	21.627	ug/l	99
7) Trichlorofluoromethane	3.056	101	199916	20.755	ug/l	99
8) Diethyl Ether	3.458	74	47102	18.714	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.824	101	109081	21.824	ug/l	99
10) Methyl Iodide	4.007	142	118615	21.317	ug/l	100
11) Tert butyl alcohol	4.848	59	33372	98.761	ug/l #	72
12) 1,1-Dichloroethene	3.793	96	99847	20.607	ug/l	94
13) Acrolein	3.653	56	33960	71.125	ug/l	97
14) Allyl chloride	4.385	41	118087	19.998	ug/l	98
15) Acrylonitrile	5.067	53	85345	88.605	ug/l	98
16) Acetone	3.866	43	123073	113.816	ug/l	100
17) Carbon Disulfide	4.110	76	295836	21.333	ug/l	99
18) Methyl Acetate	4.385	43	40666	14.336	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	210628	18.087	ug/l	98
20) Methylene Chloride	4.622	84	115371	19.731	ug/l	99
21) trans-1,2-Dichloroethene	5.122	96	112750	21.136	ug/l	95
22) Diisopropyl ether	6.025	45	262571	20.102	ug/l	98
23) Vinyl Acetate	5.964	43	663482	93.845	ug/l	99
24) 1,1-Dichloroethane	5.921	63	182790	21.127	ug/l	97
25) 2-Butanone	6.896	43	127919	96.899	ug/l	98
26) 2,2-Dichloropropane	6.884	77	169670	21.371	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	129077	20.947	ug/l	98
28) Bromochloromethane	7.250	49	65523	20.286	ug/l	99
29) Tetrahydrofuran	7.268	42	59944	80.074	ug/l	99
30) Chloroform	7.427	83	202307	21.282	ug/l	98
31) Cyclohexane	7.707	56	152122	20.133	ug/l	94
32) 1,1,1-Trichloroethane	7.616	97	183145	21.200	ug/l	98
36) 1,1-Dichloropropene	7.841	75	138137	21.238	ug/l	99
37) Ethyl Acetate	6.988	43	44763	17.371	ug/l	98
38) Carbon Tetrachloride	7.823	117	168704	21.390	ug/l	97
39) Methylcyclohexane	9.109	83	175568	20.731	ug/l	96
40) Benzene	8.079	78	440407	21.380	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023426.D
 Acq On : 10 Oct 2025 09:54
 Operator : SY/MD
 Sample : VY1010SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1010SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/13/2025
 Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 10 15:33:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	19639	14.092	ug/l #	81
42) 1,2-Dichloroethane	8.158	62	103889	19.556	ug/l	99
43) Isopropyl Acetate	8.201	43	86729	16.879	ug/l	99
44) Trichloroethene	8.866	130	125949	20.890	ug/l	96
45) 1,2-Dichloropropane	9.140	63	94672	20.808	ug/l	98
46) Dibromomethane	9.231	93	56601	19.674	ug/l	97
47) Bromodichloromethane	9.426	83	150294	20.742	ug/l	97
48) Methyl methacrylate	9.225	41	39342	16.298	ug/l	98
49) 1,4-Dioxane	9.231	88	10351	310.318	ug/l	96
51) 4-Methyl-2-Pentanone	9.999	43	218082	82.147	ug/l	99
52) Toluene	10.170	92	288649	21.582	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	121887	19.346	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	152115	20.457	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	74234	19.188	ug/l	94
56) Ethyl methacrylate	10.438	69	75097	16.828	ug/l	98
57) 1,3-Dichloropropane	10.719	76	119779	19.538	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	170616	85.344	ug/l	99
59) 2-Hexanone	10.762	43	171998	90.658	ug/l	98
60) Dibromochloromethane	10.914	129	107532	19.825	ug/l	99
61) 1,2-Dibromoethane	11.018	107	69925	18.952	ug/l	99
64) Tetrachloroethene	10.646	164	150096	20.694	ug/l	98
65) Chlorobenzene	11.444	112	315065	20.622	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	112682	20.697	ug/l	100
67) Ethyl Benzene	11.518	91	515333	20.838	ug/l	99
68) m/p-Xylenes	11.627	106	426501	42.998	ug/l	100
69) o-Xylene	11.956	106	191706	20.605	ug/l	100
70) Styrene	11.969	104	313880	20.515	ug/l	99
71) Bromoform	12.133	173	61217	18.127	ug/l #	100
73) Isopropylbenzene	12.255	105	508620	21.217	ug/l	99
74) N-amyl acetate	12.072	43	70800	16.443	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	71428	18.218	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	52954m	16.500	ug/l	
77) Bromobenzene	12.536	156	129470	20.315	ug/l	98
78) n-propylbenzene	12.597	91	605975	21.844	ug/l	100
79) 2-Chlorotoluene	12.682	91	339866	20.922	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	423356	21.855	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	21929	16.756	ug/l	96
82) 4-Chlorotoluene	12.779	91	357661	21.378	ug/l	100
83) tert-Butylbenzene	12.999	119	377419	21.102	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	416452	21.542	ug/l	100
85) sec-Butylbenzene	13.176	105	557719	21.738	ug/l	99
86) p-Isopropyltoluene	13.292	119	472929	21.650	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	258745	20.849	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	252221	20.578	ug/l	99
89) n-Butylbenzene	13.615	91	409121	21.494	ug/l	98
90) Hexachloroethane	13.877	117	101170	21.533	ug/l	95
91) 1,2-Dichlorobenzene	13.657	146	220544	20.270	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10125	15.738	ug/l	96
93) 1,2,4-Trichlorobenzene	14.919	180	123408	18.194	ug/l	99
94) Hexachlorobutadiene	15.023	225	86275	20.404	ug/l	97
95) Naphthalene	15.145	128	160568	14.866	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	102396	17.428	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023426.D
Acq On : 10 Oct 2025 09:54
Operator : SY/MD
Sample : VY1010SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1010SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/13/2025
Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 10 15:33:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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

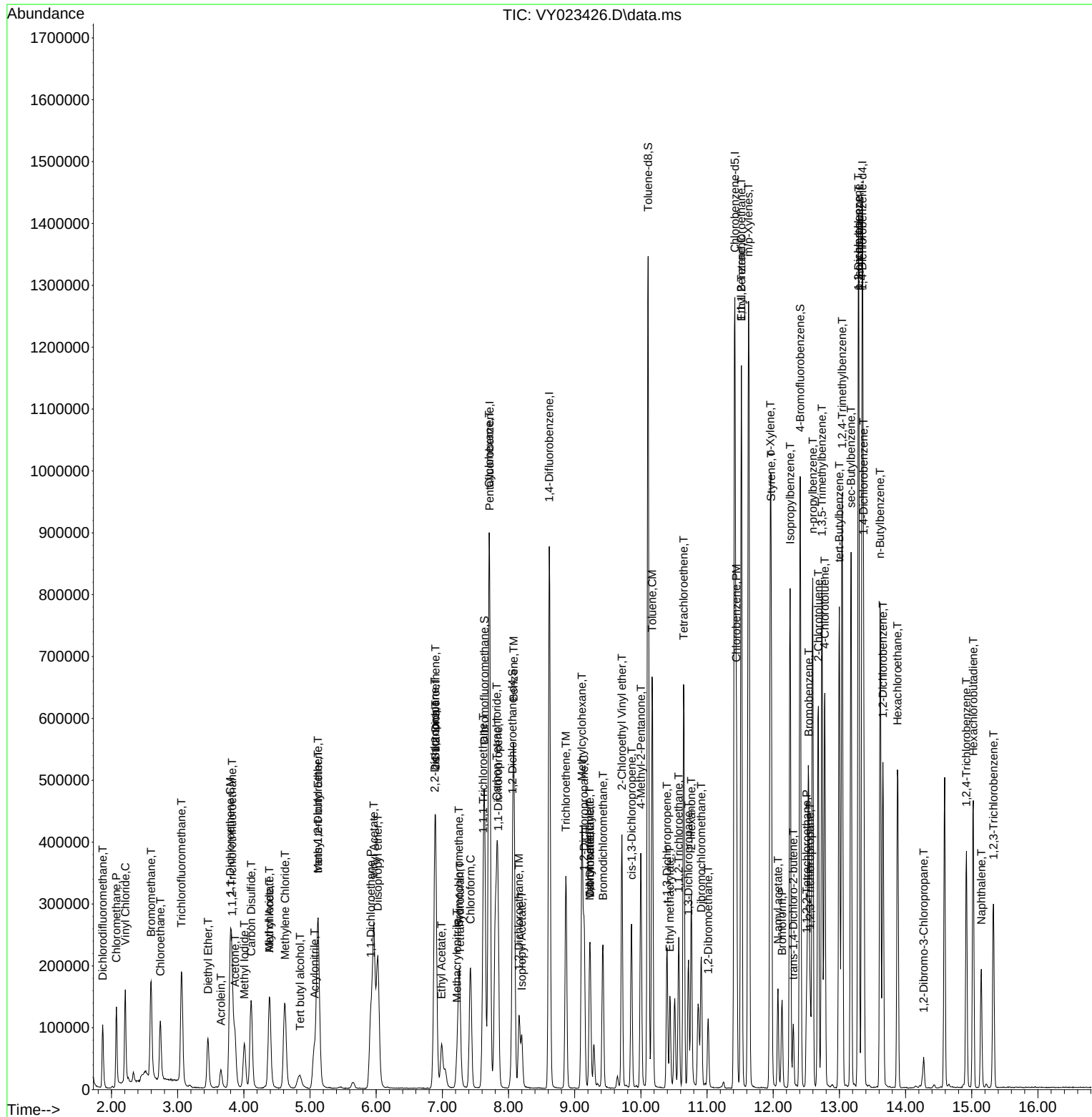
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023426.D
Acq On : 10 Oct 2025 09:54
Operator : SY/MD
Sample : VY1010SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1010SBS01

Manual Integrations

Reviewed By :Mahesh Dadoda 10/13/2025
Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 10 15:33:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration



Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	
Project:	Con Edison Richmond Terrace	Date Received:	
Client Sample ID:	VY1010SBSD01	SDG No.:	Q3323
Lab Sample ID:	VY1010SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023427.D	1	10/10/25 10:17	VY101025

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	20.5		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.6		0.79	5.00	ug/Kg
74-83-9	Bromomethane	20.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.0		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	20.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.6		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.1		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	15.6		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	18.9		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.7		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	19.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	99.1		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.6		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.7		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.3		0.91	5.00	ug/Kg
71-43-2	Benzene	21.0		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.5		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.4		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	85.4		3.60	25.0	ug/Kg
108-88-3	Toluene	21.1		0.78	5.00	ug/Kg

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc			Date Collected:	
Project:	Con Edison Richmond Terrace			Date Received:	
Client Sample ID:	VY1010SBSD01			SDG No.:	Q3323
Lab Sample ID:	VY1010SBSD01			Matrix:	SOIL
Analytical Method:	8260D			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023427.D	1	10/10/25 10:17	VY101025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.7		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.4		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	93.2		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.4		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.7		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.9		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.5		0.82	5.00	ug/Kg
100-42-5	Styrene	20.7		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.9		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.8		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.9		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.0		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.5		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.8		63 - 155	92%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	49.2		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		17 - 146	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	542000	7.713			
540-36-3	1,4-Difluorobenzene	797000	8.616			
3114-55-4	Chlorobenzene-d5	692000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	357000	13.346			



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

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc		Date Collected:	
Project:	Con Edison Richmond Terrace		Date Received:	
Client Sample ID:	VY1010SBSD01		SDG No.:	Q3323
Lab Sample ID:	VY1010SBSD01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023427.D	1	10/10/25 10:17	VY101025

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\VY101025\
 Data File : VY023427.D
 Acq On : 10 Oct 2025 10:17
 Operator : SY/MD
 Sample : VY1010SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1010SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/13/2025
 Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 10 15:34:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	541854	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	796917	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	692218	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	356596	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	207349	45.762	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.520%
35) Dibromofluoromethane	7.640	113	238024	48.609	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.220%
50) Toluene-d8	10.109	98	896457	49.159	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.320%
62) 4-Bromofluorobenzene	12.408	95	279368	46.403	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	92.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	84147	21.575	ug/l	97
3) Chloromethane	2.074	50	109172	20.548	ug/l	98
4) Vinyl Chloride	2.208	62	142809	20.636	ug/l	98
5) Bromomethane	2.592	94	119177	20.522	ug/l	96
6) Chloroethane	2.739	64	99211	21.032	ug/l	97
7) Trichlorofluoromethane	3.056	101	194037	20.194	ug/l	96
8) Diethyl Ether	3.458	74	47143	18.776	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	103459	20.749	ug/l	99
10) Methyl Iodide	4.007	142	113805	20.502	ug/l	98
11) Tert butyl alcohol	4.860	59	34239	101.574	ug/l #	94
12) 1,1-Dichloroethene	3.793	96	99781	20.644	ug/l	91
13) Acrolein	3.659	56	35556	74.649	ug/l	100
14) Allyl chloride	4.385	41	115370	19.585	ug/l	97
15) Acrylonitrile	5.061	53	84519	87.961	ug/l	99
16) Acetone	3.866	43	121241	112.395	ug/l	99
17) Carbon Disulfide	4.110	76	286702	20.725	ug/l	99
18) Methyl Acetate	4.385	43	44259	15.641	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	210703	18.138	ug/l	99
20) Methylene Chloride	4.616	84	110481	18.941	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	111056	20.869	ug/l	97
22) Diisopropyl ether	6.025	45	259970	19.952	ug/l	99
23) Vinyl Acetate	5.964	43	661285	93.762	ug/l	99
24) 1,1-Dichloroethane	5.921	63	178733	20.708	ug/l	98
25) 2-Butanone	6.896	43	130507	99.100	ug/l	98
26) 2,2-Dichloropropane	6.890	77	167201	21.112	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	127159	20.686	ug/l	97
28) Bromochloromethane	7.250	49	66358	20.595	ug/l	100
29) Tetrahydrofuran	7.262	42	59785	80.056	ug/l	98
30) Chloroform	7.427	83	198761	20.960	ug/l	96
31) Cyclohexane	7.707	56	148887	19.753	ug/l	97
32) 1,1,1-Trichloroethane	7.622	97	178223	20.681	ug/l	99
36) 1,1-Dichloropropene	7.835	75	135873	20.959	ug/l	99
37) Ethyl Acetate	6.994	43	46430	18.078	ug/l	96
38) Carbon Tetrachloride	7.823	117	163372	20.784	ug/l	99
39) Methylcyclohexane	9.109	83	171108	20.272	ug/l	97
40) Benzene	8.079	78	431338	21.010	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023427.D
 Acq On : 10 Oct 2025 10:17
 Operator : SY/MD
 Sample : VY1010SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1010SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/13/2025
 Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 10 15:34:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	23900	17.206	ug/l #	91
42) 1,2-Dichloroethane	8.158	62	103386	19.526	ug/l	100
43) Isopropyl Acetate	8.201	43	88582	17.297	ug/l	99
44) Trichloroethene	8.872	130	125382	20.866	ug/l	93
45) 1,2-Dichloropropane	9.140	63	92364	20.369	ug/l	96
46) Dibromomethane	9.231	93	56993	19.876	ug/l	98
47) Bromodichloromethane	9.426	83	146563	20.295	ug/l	99
48) Methyl methacrylate	9.225	41	40048	16.646	ug/l	97
49) 1,4-Dioxane	9.231	88	11146	335.268	ug/l	98
51) 4-Methyl-2-Pentanone	9.999	43	225879	85.368	ug/l	99
52) Toluene	10.170	92	281333	21.105	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	120857	19.247	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	146357	19.749	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	74982	19.446	ug/l	96
56) Ethyl methacrylate	10.438	69	77055	17.324	ug/l	99
57) 1,3-Dichloropropane	10.719	76	118183	19.342	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	178542	89.607	ug/l	99
59) 2-Hexanone	10.762	43	176294	93.233	ug/l	99
60) Dibromochloromethane	10.914	129	105024	19.427	ug/l	99
61) 1,2-Dibromoethane	11.018	107	69864	18.998	ug/l	100
64) Tetrachloroethene	10.646	164	153199	21.434	ug/l	95
65) Chlorobenzene	11.444	112	309927	20.586	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	110903	20.671	ug/l	98
67) Ethyl Benzene	11.518	91	505123	20.727	ug/l	99
68) m/p-Xylenes	11.627	106	409474	41.891	ug/l	100
69) o-Xylene	11.956	106	187775	20.481	ug/l	99
70) Styrene	11.969	104	311971	20.692	ug/l	99
71) Bromoform	12.133	173	61660	18.528	ug/l #	98
73) Isopropylbenzene	12.255	105	489995	20.851	ug/l	99
74) N-amyl acetate	12.072	43	73536	17.422	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	69747	18.146	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	54533m	17.333	ug/l	
77) Bromobenzene	12.530	156	125307	20.057	ug/l	100
78) n-propylbenzene	12.597	91	582536	21.421	ug/l	99
79) 2-Chlorotoluene	12.682	91	332691	20.891	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	405064	21.331	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	22943	17.882	ug/l	96
82) 4-Chlorotoluene	12.779	91	345551	21.069	ug/l	100
83) tert-Butylbenzene	12.999	119	365784	20.862	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	403462	21.289	ug/l	98
85) sec-Butylbenzene	13.176	105	534964	21.270	ug/l	99
86) p-Isopropyltoluene	13.292	119	455332	21.263	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	253236	20.815	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	246088	20.481	ug/l	98
89) n-Butylbenzene	13.615	91	387872	20.787	ug/l	99
90) Hexachloroethane	13.877	117	95855	20.811	ug/l	96
91) 1,2-Dichlorobenzene	13.657	146	212474	19.920	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10710	16.982	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	122903	18.483	ug/l	99
94) Hexachlorobutadiene	15.023	225	83908	20.243	ug/l	98
95) Naphthalene	15.145	128	168550	15.918	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	102878	17.862	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023427.D
Acq On : 10 Oct 2025 10:17
Operator : SY/MD
Sample : VY1010SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1010SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/13/2025
Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 10 15:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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

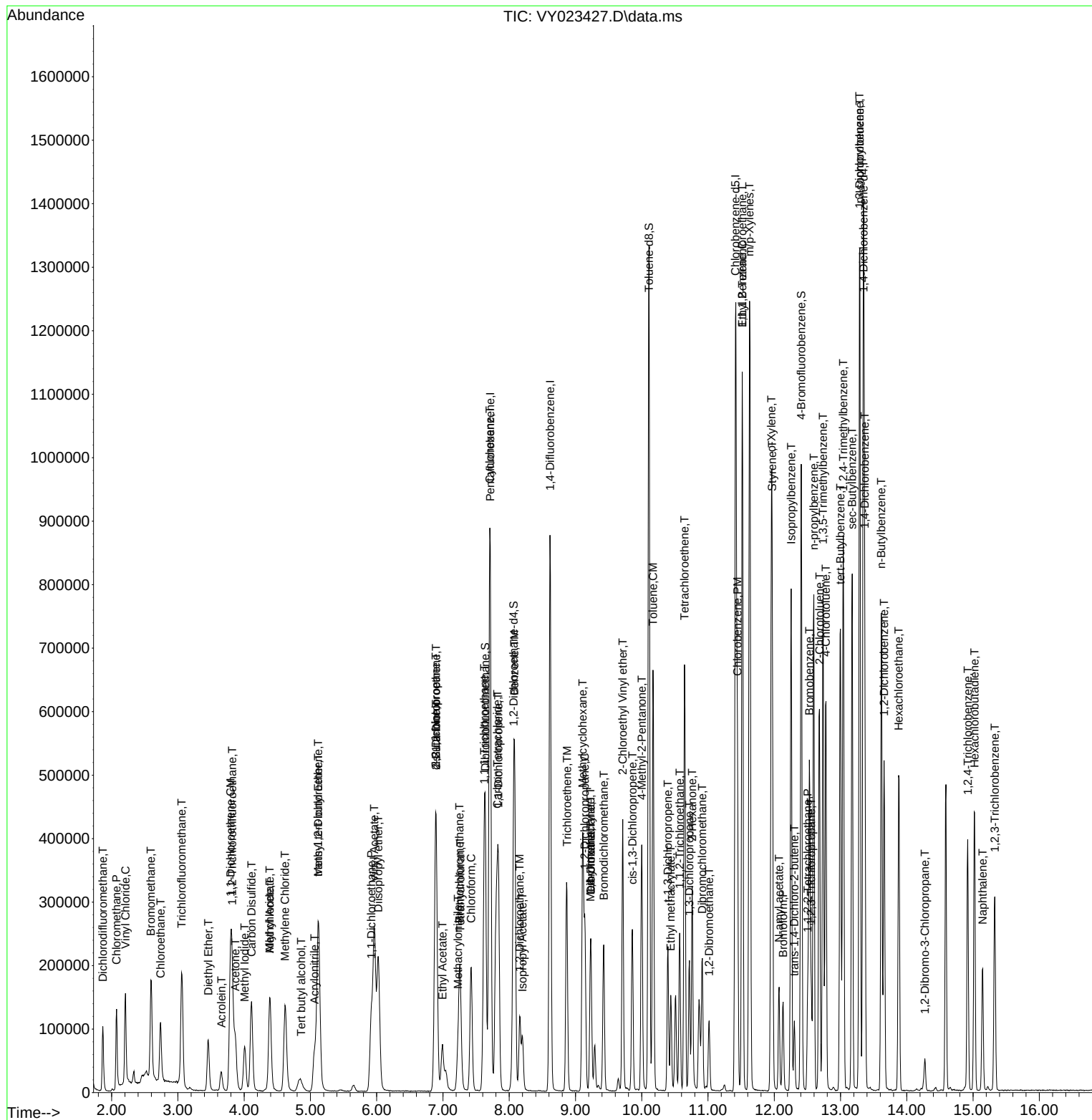
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
Data File : VY023427.D
Acq On : 10 Oct 2025 10:17
Operator : SY/MD
Sample : VY1010SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1010SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/13/2025
Supervised By :Semsettin Yesilyurt 10/13/2025

Quant Time: Oct 10 15:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VY100725	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY023384.D	1,2,3-Trichloropropane	sam	10/10/2025 2:59:48 AM	MMdadoda	10/10/2025 4:37:28 AM	Peak Integrated by Software
VSTDICC005	VY023384.D	2-Chloroethyl Vinyl ether	sam	10/10/2025 2:59:48 AM	MMdadoda	10/10/2025 4:37:28 AM	Peak Integrated by Software
VSTDICC005	VY023384.D	Methacrylonitrile	sam	10/10/2025 2:59:48 AM	MMdadoda	10/10/2025 4:37:28 AM	Peak Integrated by Software
VSTDICC010	VY023385.D	1,2,3-Trichloropropane	sam	10/10/2025 2:59:52 AM	MMdadoda	10/10/2025 4:37:33 AM	Peak Integrated by Software
VSTDICC010	VY023385.D	2-Chloroethyl Vinyl ether	sam	10/10/2025 2:59:52 AM	MMdadoda	10/10/2025 4:37:33 AM	Peak Integrated by Software
VSTDICC020	VY023386.D	1,2,3-Trichloropropane	sam	10/10/2025 2:59:56 AM	MMdadoda	10/10/2025 4:37:37 AM	Peak Integrated by Software
VSTDICC020	VY023386.D	2-Chloroethyl Vinyl ether	sam	10/10/2025 2:59:56 AM	MMdadoda	10/10/2025 4:37:37 AM	Peak Integrated by Software
VSTDICC020	VY023386.D	Methacrylonitrile	sam	10/10/2025 2:59:56 AM	MMdadoda	10/10/2025 4:37:37 AM	Peak Integrated by Software
VSTDICCC050	VY023387.D	1,2,3-Trichloropropane	sam	10/10/2025 3:00:01 AM	MMdadoda	10/10/2025 4:37:41 AM	Peak Integrated by Software
VSTDICC100	VY023388.D	1,2,3-Trichloropropane	sam	10/10/2025 3:00:05 AM	MMdadoda	10/10/2025 4:37:46 AM	Peak Integrated by Software
VSTDICC150	VY023389.D	1,2,3-Trichloropropane	sam	10/10/2025 3:00:09 AM	MMdadoda	10/10/2025 4:37:51 AM	Peak Integrated by Software
VSTDICV050	VY023391.D	1,2,3-Trichloropropane	sam	10/10/2025 3:00:14 AM	MMdadoda	10/10/2025 4:37:55 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VY100725

Instrument

MSVOA_y

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

Vy101025

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023424.D	1,2,3-Trichloropropane	MMDadoda	10/13/2025 2:18:39 PM	Sam	10/13/2025 2:21:38 PM	Peak Integrated by Software
VY1010SBS01	VY023426.D	1,2,3-Trichloropropane	MMDadoda	10/13/2025 2:18:39 PM	Sam	10/13/2025 2:21:37 PM	Peak Integrated by Software
VY1010SBSD0 1	VY023427.D	1,2,3-Trichloropropane	MMDadoda	10/13/2025 2:18:41 PM	Sam	10/13/2025 2:21:43 PM	Peak Integrated by Software
VSTDCCC050	VY023445.D	1,2,3-Trichloropropane	MMDadoda	10/13/2025 2:18:42 PM	Sam	10/13/2025 2:21:51 PM	Peak Integrated by Software
VSTDCCC050	VY023445.D	Methacrylonitrile	MMDadoda	10/13/2025 2:18:42 PM	Sam	10/13/2025 2:21:51 PM	Peak Integrated by Software

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY100725

Review By	Semsettin Yesilyurt	Review On	10/10/2025 3:00:22 AM		
Supervise By	Maresh Dadoda	Supervise On	10/10/2025 4:38:02 AM		
SubDirectory	VY100725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100725s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP135766			
Initial Calibration Stds		VP135767,VP135768,VP135769,VP135770,VP135771,VP135772			
CCC					
Internal Standard/PEM		VP133934			
ICV/I.BLK		VP135773			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023383.D	07 Oct 2025 08:43	SY/MD	Ok
2	VSTDIC005	VY023384.D	07 Oct 2025 09:17	SY/MD	Ok,M
3	VSTDIC010	VY023385.D	07 Oct 2025 10:02	SY/MD	Ok,M
4	VSTDIC020	VY023386.D	07 Oct 2025 11:24	SY/MD	Ok,M
5	VSTDIC050	VY023387.D	07 Oct 2025 11:47	SY/MD	Ok,M
6	VSTDIC100	VY023388.D	07 Oct 2025 12:09	SY/MD	Ok,M
7	VSTDIC150	VY023389.D	07 Oct 2025 12:32	SY/MD	Ok,M
8	VIBLK	VY023390.D	07 Oct 2025 13:02	SY/MD	Ok
9	VSTDICV050	VY023391.D	07 Oct 2025 14:12	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY101025

Review By	Mahesh Dadoda	Review On	10/13/2025 2:18:09 PM
Supervise By		Supervise On	
SubDirectory	VY101025	HP Acquire Method	HP Processing Method
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023423.D	10 Oct 2025 08:26	SY/MD	Ok
2	VSTDCCC050	VY023424.D	10 Oct 2025 08:56	SY/MD	Ok,M
3	VY1010SBL01	VY023425.D	10 Oct 2025 09:25	SY/MD	Ok
4	VY1010SBS01	VY023426.D	10 Oct 2025 09:54	SY/MD	Ok,M
5	VY1010SBSD01	VY023427.D	10 Oct 2025 10:17	SY/MD	Ok,M
6	Q3303-01RE	VY023428.D	10 Oct 2025 10:56	SY/MD	Confirms
7	Q3303-03RE	VY023429.D	10 Oct 2025 11:19	SY/MD	Confirms
8	Q3304-03	VY023430.D	10 Oct 2025 11:42	SY/MD	Ok
9	Q3313-01	VY023431.D	10 Oct 2025 12:06	SY/MD	Ok
10	Q3315-03	VY023432.D	10 Oct 2025 12:29	SY/MD	Ok
11	Q3319-01	VY023433.D	10 Oct 2025 12:53	SY/MD	Ok
12	Q3323-01	VY023434.D	10 Oct 2025 13:16	SY/MD	Ok
13	Q3323-02	VY023435.D	10 Oct 2025 13:40	SY/MD	Ok
14	Q3323-03	VY023436.D	10 Oct 2025 14:03	SY/MD	Ok
15	Q3323-04	VY023437.D	10 Oct 2025 14:27	SY/MD	Ok
16	Q3323-05	VY023438.D	10 Oct 2025 14:50	SY/MD	Ok
17	Q3323-06	VY023439.D	10 Oct 2025 15:13	SY/MD	Ok
18	Q3323-07	VY023440.D	10 Oct 2025 15:37	SY/MD	Ok
19	Q3326-03	VY023441.D	10 Oct 2025 16:00	SY/MD	Ok
20	Q3326-07	VY023442.D	10 Oct 2025 16:24	SY/MD	Ok
21	Q3327-01	VY023443.D	10 Oct 2025 16:47	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY101025

Review By	Mahesh Dadoda	Review On	10/13/2025 2:18:09 PM
Supervise By		Supervise On	
SubDirectory	VY101025	HP Acquire Method	HP Processing Method
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds			
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard			

22	VIBLK	VY023444.D	10 Oct 2025 17:11	SY/MD	Ok
23	VSTDCCC050	VY023445.D	10 Oct 2025 17:33	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY100725

Review By	Semsettin Yesilyurt	Review On	10/10/2025 3:00:22 AM
Supervise By	Maresh Dadoda	Supervise On	10/10/2025 4:38:02 AM
SubDirectory	VY100725	HP Acquire Method	MSVOA_Y HP Processing Method 82y100725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135766
Initial Calibration Stds	VP135767,VP135768,VP135769,VP135770,VP135771,VP135772
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135773
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023383.D	07 Oct 2025 08:43		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY023384.D	07 Oct 2025 09:17		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY023385.D	07 Oct 2025 10:02		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY023386.D	07 Oct 2025 11:24		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY023387.D	07 Oct 2025 11:47		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY023388.D	07 Oct 2025 12:09		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY023389.D	07 Oct 2025 12:32		SY/MD	Ok,M
8	VIBLK	VIBLK	VY023390.D	07 Oct 2025 13:02		SY/MD	Ok
9	VSTDICV050	ICVVY100725	VY023391.D	07 Oct 2025 14:12		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY101025

Review By	Mahesh Dadoda	Review On	10/13/2025 2:18:09 PM
Supervise By		Supervise On	
SubDirectory	VY101025	HP Acquire Method	HP Processing Method

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023423.D	10 Oct 2025 08:26		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023424.D	10 Oct 2025 08:56		SY/MD	Ok,M
3	VY1010SBL01	VY1010SBL01	VY023425.D	10 Oct 2025 09:25		SY/MD	Ok
4	VY1010SBS01	VY1010SBS01	VY023426.D	10 Oct 2025 09:54		SY/MD	Ok,M
5	VY1010SBSD01	VY1010SBSD01	VY023427.D	10 Oct 2025 10:17		SY/MD	Ok,M
6	Q3303-01RE	HL-WESTRE	VY023428.D	10 Oct 2025 10:56	vial-B ISTD Fail	SY/MD	Confirms
7	Q3303-03RE	HL-EASTRE	VY023429.D	10 Oct 2025 11:19	vial-B ISTD Fail	SY/MD	Confirms
8	Q3304-03	TR-05-100725	VY023430.D	10 Oct 2025 11:42	vial-B	SY/MD	Ok
9	Q3313-01	ETGI-360	VY023431.D	10 Oct 2025 12:06	vial-B ISTD Fail	SY/MD	Ok
10	Q3315-03	72-11989	VY023432.D	10 Oct 2025 12:29	vial-B	SY/MD	Ok
11	Q3319-01	OK-01-100825	VY023433.D	10 Oct 2025 12:53	vial-B	SY/MD	Ok
12	Q3323-01	SED-01-0-2	VY023434.D	10 Oct 2025 13:16	vial-A	SY/MD	Ok
13	Q3323-02	SED-02-0-2	VY023435.D	10 Oct 2025 13:40	vial-A	SY/MD	Ok
14	Q3323-03	SED-03-0-2	VY023436.D	10 Oct 2025 14:03	vial-A	SY/MD	Ok
15	Q3323-04	SED-04-0-2	VY023437.D	10 Oct 2025 14:27	vial-A	SY/MD	Ok
16	Q3323-05	SED-05-0-2	VY023438.D	10 Oct 2025 14:50	vial-A	SY/MD	Ok
17	Q3323-06	SED-06-0-2	VY023439.D	10 Oct 2025 15:13	vial-A	SY/MD	Ok
18	Q3323-07	SED-07-0-2	VY023440.D	10 Oct 2025 15:37	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY101025

Review By	Mahesh Dadoda	Review On	10/13/2025 2:18:09 PM
Supervise By		Supervise On	
SubDirectory	VY101025	HP Acquire Method	HP Processing Method
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard			

19	Q3326-03	TP-1-VOC	VY023441.D	10 Oct 2025 16:00	vial-A	SY/MD	Ok
20	Q3326-07	TP-2-VOC	VY023442.D	10 Oct 2025 16:24	vial-A	SY/MD	Ok
21	Q3327-01	HADLEY-ROAD-TP	VY023443.D	10 Oct 2025 16:47	vial-A	SY/MD	Ok
22	VIBLK	VIBLK	VY023444.D	10 Oct 2025 17:11		SY/MD	Ok
23	VSTDCCC050	VSTDCCC050EC	VY023445.D	10 Oct 2025 17:33		SY/MD	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/13/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/10/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:40
Out Date: 10/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137490

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
Q3323-01	SED-01-0-2	1	1.15	10.84	11.99	8.39	66.8	
Q3323-02	SED-02-0-2	2	1.19	10.07	11.26	6.96	57.3	
Q3323-03	SED-03-0-2	3	1.19	10.97	12.16	9.05	71.6	
Q3323-04	SED-04-0-2	4	1.13	11.34	12.47	9.09	70.2	
Q3323-05	SED-05-0-2	5	1.19	10.26	11.45	9.13	77.4	
Q3323-06	SED-06-0-2	6	1.13	10.78	11.91	9.84	80.8	
Q3323-07	SED-07-0-2	7	1.14	10.46	11.6	9.63	81.2	
Q3325-01	SVOC-GPC-BLANK	8	1.00	1.00	2.00	2.00	100.0	
Q3325-02	PEST-GPC-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q3325-03	PEST-GPC-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q3325-04	SVOC-GPC2-BLANK	11	1.00	1.00	2.00	2.00	100.0	
Q3325-05	PEST-GPC2-BLANK	12	1.00	1.00	2.00	2.00	100.0	
Q3325-06	PEST -GPC2-BLANK-SPIKE	13	1.00	1.00	2.00	2.00	100.0	
Q3326-01	TP-1	14	1.14	10.71	11.85	10.6	88.3	
Q3326-02	TP-1-EPH	15	1.16	10.31	11.47	10.28	88.5	
Q3326-03	TP-1-VOC	16	1.18	11.20	12.38	11.12	88.7	
Q3326-05	TP-2	17	1.11	10.49	11.6	10.35	88.1	
Q3326-06	TP-2-EPH	18	1.19	10.53	11.72	10.64	89.7	
Q3326-07	TP-2-VOC	19	1.14	10.84	11.98	10.86	89.7	
Q3327-01	HADLEY-ROAD-TP	20	1.15	10.77	11.92	10.65	88.2	
Q3329-01	106	21	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3332-01	100225-D	22	1.16	10.32	11.48	10.41	89.6	
Q3333-01	100725-A	23	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3334-01	100325	24	1.00	1.00	2.00	2.00	100.0	debris

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



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **LANGAN**
ADDRESS: **1 North Broadway**
CITY: **White Plains** STATE: **NY** ZIP: **10601**
ATTENTION:
PHONE: **914-323-7414** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **Richmond Terrace - Site 163**
PROJECT NO.: **190134901** LOCATION: **Staten Island**
PROJECT MANAGER: **Gregory DelMastro**
e-mail: **gdelmastro@langan.com**
PHONE: **914-323-7414** FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#: ADDRESS: **SAME**
CITY: STATE: ZIP: ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): **21** 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 (8260)
SVOCs (8270)
PAHs (8082A)
TAL Metals (6000/6001)
Pesticides (8081)

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9		
1.	SED-01-0-2	S	X	X	10/9	8:45	6	X	X	X	X	X	X	X	X	X		
2.	SED-02-0-2	S	X	X		9:15	6	X	X	X	X	X	X	X	X	X		
3.	SED-03-0-2	S	X	X		9:30	6	X	X	X	X	X	X	X	X	X		
4.	SED-04-0-2	S	X	X		10:30	6	X	X	X	X	X	X	X	X	X		
5.	SED-05-0-2	S	X	X		11:00	6	X	X	X	X	X	X	X	X	X		
6.	SED-06-0-2	S	X	X		11:30	6	X	X	X	X	X	X	X	X	X		
7.	SED-07-0-2	S	X	X		12:00	6	X	X	X	X	X	X	X	X	X		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER:	DATE/TIME: 10/9/25	RECEIVED BY: [Signature]	1430	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.2 °C
1. [Signature]			10-9-25	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:		
2.				
RELINQUISHED BY SAMPLER:	DATE/TIME: 10-9-25	RECEIVED BY:		
3. [Signature]				

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3323	LANG01	Order Date : 10/9/2025 2:32:00 PM	Project Mgr : Results only
Client Name : Langan Engineering and En		Project Name : Con Edison Richmond Terr	Report Type : Results Only ~~1000004~~
Client Contact : Gregory DelMastro		Receive DateTime : 10/9/2025 ~~12:00:00~~ AM	EDD Type : Excel NY
Invoice Name : Langan Engineering and En		Purchase Order : 18:45	Hard Copy Date :
Invoice Contact : Gregory DelMastro			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3323-01	SED-01-0-2	Solid	10/09/2025	08:45	VOC-TCLVOA-10		8260D	~~10~~ Bus. Days	10 Days
Q3323-02	SED-02-0-2	Solid	10/09/2025	09:15	VOC-TCLVOA-10		8260D	~~10~~ Bus. Days	
Q3323-03	SED-03-0-2	Solid	10/09/2025	09:30	VOC-TCLVOA-10		8260D	~~10~~ Bus. Days	
Q3323-04	SED-04-0-2	Solid	10/09/2025	10:30	VOC-TCLVOA-10		8260D	~~10~~ Bus. Days	
Q3323-05	SED-05-0-2	Solid	10/09/2025	11:00	VOC-TCLVOA-10		8260D	~~10~~ Bus. Days	
Q3323-06	SED-06-0-2	Solid	10/09/2025	11:30	VOC-TCLVOA-10		8260D	~~10~~ Bus. Days	
Q3323-07	SED-07-0-2	Solid	10/09/2025	12:00	VOC-TCLVOA-10		8260D	~~10~~ Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3323 LANG01	Order Date : 10/9/2025 2:32:00 PM	Project Mgr :
Client Name : Langan Engineering and En	Project Name : Con Edison Richmond Terr	Report Type : Results Only
Client Contact : Gregory DelMastro	Receive DateTime : 10/9/2025 ~~12:00:00 AM~~	EDD Type : Excel NY
Invoice Name : Langan Engineering and En	Purchase Order : 18:	Hard Copy Date :
Invoice Contact : Gregory DelMastro		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 : CR

Date / Time : 10/10/25 11:10

Received By : JK

Date / Time : 10/10/25 1110

Storage Area : VOA Refridgerator Room