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Cover Page

Order ID : P5026

Project ID : Hamilton

Client : Tully Construction Co., Inc.

Lab Sample Number	Client Sample Number
P5026-01	SOIL-1-HAM
P5026-02	SOIL-1-HAM
P5026-03	SOIL-1-HAM-TPH2
P5026-04	SOIL-1-HAM-GRAB
P5026-05	SOIL-1-HAM
P5026-06	SOIL-1-HAM
P5026-07	SOIL-1-HAM-TPH2
P5026-08	SOIL-1-HAM-GRAB

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

Signature : _____

Date: 12/5/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P5026**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **KETAN PATEL** **Date:** **12/05/2024**

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LAB CHRONICLE

OrderID:	P5026	**OrderDate:**	11/27/2024 11:24:00 AM
Client:	Tully Construction Co., Inc.	**Project:**	Hamilton
Contact:	Dean Devoe	**Location:**	L61,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5026-04	**SOIL-1-HAM-GRAB**	**SOIL**			**11/27/24**			**11/27/24**
			VOC-TCLVOA-10	8260D			12/02/24	
P5026-08	**SOIL-1-HAM-GRAB**	**SOIL**			**11/27/24**			**11/27/24**
			VOC-TCLVOA-10	8260D			12/02/24	

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Hit Summary Sheet
SW-846

SDG No.: P5026

Client: Tully Construction Co., Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**SOIL-1-HAM-GRAB**								
P5026-04	SOIL-1-HAM-GRA	SOIL	Acetone		0.012	J	0.0054	0.022	mg/Kg
P5026-04	SOIL-1-HAM-GRA	SOIL	Carbon Disulfide		0.0048		0.0011	0.0043	mg/Kg
P5026-04	SOIL-1-HAM-GRA	SOIL	Toluene		0.0015	J	0.00058	0.0043	mg/Kg
			Total Voc :		0.018				
P5026-04	SOIL-1-HAM-GRA	SOIL	Dodecane	*	53.4	J	0	0	ug/Kg
P5026-04	SOIL-1-HAM-GRA	SOIL	Decane	*	20.7	J	0	0	ug/Kg
P5026-04	SOIL-1-HAM-GRA	SOIL	Tridecane	*	34.5	J	0	0	ug/Kg
P5026-04	SOIL-1-HAM-GRA	SOIL	Undecane	*	72.3	J	0	0	ug/Kg
P5026-04	SOIL-1-HAM-GRA	SOIL	1-Methyldecahydronaphthalene	*	23.1	J	0	0	ug/Kg
P5026-04	SOIL-1-HAM-GRA	SOIL	Naphthalene, decahydro-2-metl	*	54.7	J	0	0	ug/Kg
P5026-04	SOIL-1-HAM-GRA	SOIL	Cyclohexanone, 5-methyl-2-(1-	*	22.2	J	0	0	ug/Kg
P5026-04	SOIL-1-HAM-GRA	SOIL	Undecane, 2,6-dimethyl-	*	33.1	J	0	0	ug/Kg
P5026-04	SOIL-1-HAM-GRA	SOIL	Sulfurous acid, 2-ethylhexyl no	*	22.1	J	0	0	ug/Kg
			Total Tics :		336				
			Total Concentration:		336				
Client ID:	**SOIL-1-HAM-GRAB**								
P5026-08	SOIL-1-HAM-GRA	SOIL	Chloroform		0.0066		0.00061	0.0046	mg/Kg
			Total Voc :		0.0066				
P5026-08	SOIL-1-HAM-GRA	SOIL	unknown14.608	*	5.90	J	0	0	ug/Kg
P5026-08	SOIL-1-HAM-GRA	SOIL	Dodecane	*	15.9	J	0	0	ug/Kg
P5026-08	SOIL-1-HAM-GRA	SOIL	Tridecane	*	10.2	J	0	0	ug/Kg
P5026-08	SOIL-1-HAM-GRA	SOIL	Octane, 2,6-dimethyl-	*	8.30	J	0	0	ug/Kg
P5026-08	SOIL-1-HAM-GRA	SOIL	trans-4a-Methyl-decahydronapl	*	6.80	J	0	0	ug/Kg
P5026-08	SOIL-1-HAM-GRA	SOIL	Undecane, 2,6-dimethyl-	*	11.8	J	0	0	ug/Kg
P5026-08	SOIL-1-HAM-GRA	SOIL	trans,cis-1,8-Dimethylspiro[4.5	*	8.40	J	0	0	ug/Kg
P5026-08	SOIL-1-HAM-GRA	SOIL	trans-Decalin, 2-methyl-	*	16.3	J	0	0	ug/Kg
P5026-08	SOIL-1-HAM-GRA	SOIL	Carbonic acid, undecyl vinyl es	*	19.0	J	0	0	ug/Kg
			Total Tics :		103				
			Total Concentration:		103				

QC SUMMARY

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Surrogate Summary

SDG No.: P5026

Client: Tully Construction Co., Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5026-04	SOIL-1-HAM-GRAB	1,2-Dichloroethane-d4	50	56.7	113	50	163
		Dibromofluoromethane	50	27.7	55	54	147
		Toluene-d8	50	50.3	101	58	134
		4-Bromofluorobenzene	50	44.7	89	29	146
P5026-08		1,2-Dichloroethane-d4	50	55.6	111	50	163
		Dibromofluoromethane	50	49.1	98	54	147
		Toluene-d8	50	50.2	100	58	134
		4-Bromofluorobenzene	50	46.6	93	29	146
VY1202SBL01	VY1202SBL01	1,2-Dichloroethane-d4	50	57.4	115	50	163
		Dibromofluoromethane	50	49.6	99	54	147
		Toluene-d8	50	50.5	101	58	134
		4-Bromofluorobenzene	50	44.5	89	29	146
VY1202SBS01	VY1202SBS01	1,2-Dichloroethane-d4	50	55.6	111	50	163
		Dibromofluoromethane	50	56.7	113	54	147
		Toluene-d8	50	57.4	115	58	134
		4-Bromofluorobenzene	50	55.8	112	29	146
VY1202SBSD01	VY1202SBSD01	1,2-Dichloroethane-d4	50	53.9	108	50	163
		Dibromofluoromethane	50	53.6	107	54	147
		Toluene-d8	50	54.4	109	58	134
		4-Bromofluorobenzene	50	52.8	106	29	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5026

Client: Tully Construction Co., Inc.

Analytical Method: SW8260D **Datafile :** VY020481.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1202SBS01	Dichlorodifluoromethane	20	17.2	ug/Kg	86			64	136	
	Chloromethane	20	17.1	ug/Kg	86			70	130	
	Vinyl chloride	20	17.4	ug/Kg	87			72	129	
	Bromomethane	20	17.9	ug/Kg	90			58	141	
	Chloroethane	20	18.0	ug/Kg	90			69	130	
	Trichlorofluoromethane	20	18.4	ug/Kg	92			69	134	
	1,1,2-Trichlorotrifluoroethane	20	18.9	ug/Kg	95			81	123	
	1,1-Dichloroethene	20	18.1	ug/Kg	91			79	121	
	Acetone	100	81.9	ug/Kg	82			60	131	
	Carbon disulfide	20	16.1	ug/Kg	81			45	154	
	Methyl tert-butyl Ether	20	18.5	ug/Kg	93			77	129	
	Methyl Acetate	20	18.7	ug/Kg	94			69	149	
	Methylene Chloride	20	18.1	ug/Kg	91			56	174	
	trans-1,2-Dichloroethene	20	18.1	ug/Kg	91			80	123	
	1,1-Dichloroethane	20	18.3	ug/Kg	92			82	123	
	Cyclohexane	20	17.8	ug/Kg	89			76	122	
	2-Butanone	100	85.5	ug/Kg	86			69	131	
	Carbon Tetrachloride	20	18.7	ug/Kg	94			76	129	
	cis-1,2-Dichloroethene	20	18.5	ug/Kg	93			82	123	
	Bromochloromethane	20	17.0	ug/Kg	85			80	127	
	Chloroform	20	18.3	ug/Kg	92			82	125	
	1,1,1-Trichloroethane	20	18.7	ug/Kg	94			80	126	
	Methylcyclohexane	20	18.5	ug/Kg	93			77	123	
	Benzene	20	18.4	ug/Kg	92			84	121	
	1,2-Dichloroethane	20	18.8	ug/Kg	94			81	126	
	Trichloroethene	20	18.8	ug/Kg	94			83	122	
	1,2-Dichloropropane	20	18.4	ug/Kg	92			83	122	
	Bromodichloromethane	20	18.5	ug/Kg	93			82	123	
	4-Methyl-2-Pentanone	100	91.9	ug/Kg	92			70	135	
	Toluene	20	18.9	ug/Kg	95			83	122	
	t-1,3-Dichloropropene	20	18.3	ug/Kg	92			78	124	
	cis-1,3-Dichloropropene	20	18.3	ug/Kg	92			81	122	
	1,1,2-Trichloroethane	20	19.2	ug/Kg	96			82	125	
	2-Hexanone	100	87.3	ug/Kg	87			66	138	
	Dibromochloromethane	20	18.9	ug/Kg	95			79	125	
	1,2-Dibromoethane	20	18.3	ug/Kg	92			80	125	
	Tetrachloroethene	20	19.1	ug/Kg	96			83	125	
	Chlorobenzene	20	18.6	ug/Kg	93			84	122	
	Ethyl Benzene	20	18.8	ug/Kg	94			82	124	
	m/p-Xylenes	40	37.6	ug/Kg	94			83	124	
	o-Xylene	20	18.9	ug/Kg	95			83	123	
	Styrene	20	18.7	ug/Kg	94			82	124	
	Bromoform	20	18.5	ug/Kg	93			75	127	
	Isopropylbenzene	20	18.6	ug/Kg	93			82	124	
	1,1,2,2-Tetrachloroethane	20	17.9	ug/Kg	90			77	127	
	1,3-Dichlorobenzene	20	18.7	ug/Kg	94			83	122	
	1,4-Dichlorobenzene	20	18.8	ug/Kg	94			84	121	
	1,2-Dichlorobenzene	20	18.6	ug/Kg	93			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5026

Client: Tully Construction Co., Inc.

Analytical Method: SW8260D **Datafile :** VY020481.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1202SBS01	1,2-Dibromo-3-Chloropropane	20	18.3	ug/Kg	92			66	134	
	1,2,4-Trichlorobenzene	20	18.4	ug/Kg	92			78	127	
	1,2,3-Trichlorobenzene	20	18.5	ug/Kg	93			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5026

Client: Tully Construction Co., Inc.

Analytical Method: SW8260D **Datafile :** VY020482.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1202SBSD01	Dichlorodifluoromethane	20	19.2	ug/Kg	96	11		64	136	20
	Chloromethane	20	19.3	ug/Kg	97	12		70	130	20
	Vinyl chloride	20	19.6	ug/Kg	98	12		72	129	20
	Bromomethane	20	20.2	ug/Kg	101	12		58	141	20
	Chloroethane	20	20.4	ug/Kg	102	13		69	130	20
	Trichlorofluoromethane	20	20.9	ug/Kg	104	12		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/Kg	104	9		81	123	20
	1,1-Dichloroethene	20	20.4	ug/Kg	102	11		79	121	20
	Acetone	100	96.8	ug/Kg	97	17		60	131	20
	Carbon disulfide	20	18.7	ug/Kg	94	15		45	154	20
	Methyl tert-butyl Ether	20	22.2	ug/Kg	111	18		77	129	20
	Methyl Acetate	20	22.5	ug/Kg	113	18		69	149	20
	Methylene Chloride	20	21.8	ug/Kg	109	18		56	174	20
	trans-1,2-Dichloroethene	20	20.9	ug/Kg	104	13		80	123	20
	1,1-Dichloroethane	20	21.2	ug/Kg	106	14		82	123	20
	Cyclohexane	20	20.1	ug/Kg	101	13		76	122	20
	2-Butanone	100	110	ug/Kg	110	24	*	69	131	20
	Carbon Tetrachloride	20	21.8	ug/Kg	109	15		76	129	20
	cis-1,2-Dichloroethene	20	21.2	ug/Kg	106	13		82	123	20
	Bromochloromethane	20	19.7	ug/Kg	99	15		80	127	20
	Chloroform	20	21.7	ug/Kg	109	17		82	125	20
	1,1,1-Trichloroethane	20	21.6	ug/Kg	108	14		80	126	20
	Methylcyclohexane	20	21.6	ug/Kg	108	15		77	123	20
	Benzene	20	21.5	ug/Kg	108	16		84	121	20
	1,2-Dichloroethane	20	22.4	ug/Kg	112	17		81	126	20
	Trichloroethene	20	21.9	ug/Kg	110	16		83	122	20
	1,2-Dichloropropane	20	22.1	ug/Kg	111	19		83	122	20
	Bromodichloromethane	20	21.9	ug/Kg	110	17		82	123	20
	4-Methyl-2-Pentanone	100	120	ug/Kg	120	26	*	70	135	20
	Toluene	20	22.1	ug/Kg	111	16		83	122	20
	t-1,3-Dichloropropene	20	21.9	ug/Kg	110	18		78	124	20
	cis-1,3-Dichloropropene	20	22.1	ug/Kg	111	19		81	122	20
	1,1,2-Trichloroethane	20	22.7	ug/Kg	114	17		82	125	20
	2-Hexanone	100	110	ug/Kg	110	23	*	66	138	20
	Dibromochloromethane	20	22.0	ug/Kg	110	15		79	125	20
	1,2-Dibromoethane	20	22.6	ug/Kg	113	20		80	125	20
	Tetrachloroethene	20	21.5	ug/Kg	108	12		83	125	20
	Chlorobenzene	20	22.2	ug/Kg	111	18		84	122	20
	Ethyl Benzene	20	22.0	ug/Kg	110	16		82	124	20
	m/p-Xylenes	40	44.2	ug/Kg	111	17		83	124	20
	o-Xylene	20	21.9	ug/Kg	110	15		83	123	20
	Styrene	20	21.9	ug/Kg	110	16		82	124	20
	Bromoform	20	22.7	ug/Kg	114	20		75	127	20
	Isopropylbenzene	20	22.1	ug/Kg	111	18		82	124	20
	1,1,2,2-Tetrachloroethane	20	22.7	ug/Kg	114	24	*	77	127	20
	1,3-Dichlorobenzene	20	22.4	ug/Kg	112	17		83	122	20
	1,4-Dichlorobenzene	20	22.6	ug/Kg	113	18		84	121	20
	1,2-Dichlorobenzene	20	22.5	ug/Kg	113	19		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5026

Client: Tully Construction Co., Inc.

Analytical Method: SW8260D **Datafile :** VY020482.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1202SBSD01	1,2-Dibromo-3-Chloropropane	20	22.7	ug/Kg	114	21	*	66	134	20
	1,2,4-Trichlorobenzene	20	22.1	ug/Kg	111	19		78	127	20
	1,2,3-Trichlorobenzene	20	21.9	ug/Kg	110	17		70	137	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1202SBL01

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5026 SAS No.: P5026 SDG NO.: P5026

Lab File ID: VY020480.D Lab Sample ID: VY1202SBL01

Date Analyzed: 12/02/2024 Time Analyzed: 12:54

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
VY1202SBS01	VY1202SBS01	VY020481.D	12/02/2024
VY1202SBSD01	VY1202SBSD01	VY020482.D	12/02/2024
SOIL-1-HAM-GRAB	P5026-04	VY020488.D	12/02/2024
SOIL-1-HAM-GRAB	P5026-08	VY020489.D	12/02/2024

COMMENTS:

Raw Data: **VY020471.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5026 SAS No.: P5026 SDG NO.: P5026

Lab File ID: VY020471.D BFB Injection Date: 12/02/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:23

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	54.3
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	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	78.8
175	5.0 - 9.0% of mass 174	6.2 (7.9) 1
176	95.0 - 101.0% of mass 174	76.6 (97.2) 1
177	5.0 - 9.0% of mass 176	5.3 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY020472.D	12/02/2024	09:16
VSTDICC010	VSTDICC010	VY020473.D	12/02/2024	09:38
VSTDICC020	VSTDICC020	VY020474.D	12/02/2024	10:01
VSTDICCC050	VSTDICCC050	VY020475.D	12/02/2024	10:24
VSTDICC100	VSTDICC100	VY020476.D	12/02/2024	10:46
VSTDICC150	VSTDICC150	VY020477.D	12/02/2024	11:09
VY1202SBL01	VY1202SBL01	VY020480.D	12/02/2024	12:54
VY1202SBS01	VY1202SBS01	VY020481.D	12/02/2024	13:26
VY1202SBSD01	VY1202SBSD01	VY020482.D	12/02/2024	13:49
SOIL-1-HAM-GRAB	P5026-04	VY020488.D	12/02/2024	16:21
SOIL-1-HAM-GRAB	P5026-08	VY020489.D	12/02/2024	16:44

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5026 SAS No.: P5026 SDG NO.: P5026

Lab File ID: VY020475.D Date Analyzed: 12/02/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:24

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	155772	7.72	239903	8.62	199039	11.43
UPPER LIMIT	311544	8.219	479806	9.122	398078	11.926
LOWER LIMIT	77886	7.219	119952	8.122	99519.5	10.926
EPA SAMPLE NO.						
SOIL-1-HAM-GRAB	162960	7.72	318573	8.62	289732	11.43
SOIL-1-HAM-GRAB	173047	7.72	342399	8.62	313778	11.43
VY1202SBL01	165618	7.73	314207	8.63	283582	11.43
VY1202SBS01	152270	7.72	235744	8.62	194084	11.43
VY1202SBSD01	152704	7.72	237507	8.62	195658	11.42

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5026 SAS No.: P5026 SDG NO.: P5026

Lab File ID: VY020475.D Date Analyzed: 12/02/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:24

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

	IS4 AREA #	RT #				
12 HOUR STD	95193	13.353				
UPPER LIMIT	190386	13.853				
LOWER LIMIT	47596.5	12.853				
EPA SAMPLE NO.						
SOIL-1-HAM-GRAB	105689	13.35				
SOIL-1-HAM-GRAB	120979	13.35				
VY1202SBL01	97585	13.36				
VY1202SBS01	92222	13.35				
VY1202SBSD01	91267	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Raw Data: **VY020488.D**

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Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	11/27/24
Project:	Hamilton	Date Received:	11/27/24
Client Sample ID:	SOIL-1-HAM-GRAB	SDG No.:	P5026
Lab Sample ID:	P5026-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.8
Sample Wt/Vol:	6.51 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020488.D	1		12/02/24 16:21	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0014	U	0.0014	0.0043	mg/Kg
74-87-3	Chloromethane	0.0010	U	0.0010	0.0043	mg/Kg
75-01-4	Vinyl Chloride	0.00067	U	0.00067	0.0043	mg/Kg
74-83-9	Bromomethane	0.00089	U	0.00089	0.0043	mg/Kg
75-00-3	Chloroethane	0.00087	U	0.00087	0.0043	mg/Kg
75-69-4	Trichlorofluoromethane	0.00079	U	0.00079	0.0043	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.00093	U	0.00093	0.0043	mg/Kg
75-35-4	1,1-Dichloroethene	0.00067	U	0.00067	0.0043	mg/Kg
67-64-1	Acetone	0.012	J	0.0054	0.022	mg/Kg
75-15-0	Carbon Disulfide	0.0048		0.0011	0.0043	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.00058	U	0.00058	0.0043	mg/Kg
79-20-9	Methyl Acetate	0.0016	U	0.0016	0.0043	mg/Kg
75-09-2	Methylene Chloride	0.0029	U	0.0029	0.0086	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.00073	U	0.00073	0.0043	mg/Kg
75-34-3	1,1-Dichloroethane	0.00054	U	0.00054	0.0043	mg/Kg
110-82-7	Cyclohexane	0.00060	U	0.00060	0.0043	mg/Kg
78-93-3	2-Butanone	0.0049	U	0.0049	0.022	mg/Kg
56-23-5	Carbon Tetrachloride	0.00075	U	0.00075	0.0043	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.00053	U	0.00053	0.0043	mg/Kg
74-97-5	Bromochloromethane	0.0021	U	0.0021	0.0043	mg/Kg
67-66-3	Chloroform	0.00058	U	0.00058	0.0043	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.00067	U	0.00067	0.0043	mg/Kg
108-87-2	Methylcyclohexane	0.00075	U	0.00075	0.0043	mg/Kg
71-43-2	Benzene	0.00062	U	0.00062	0.0043	mg/Kg
107-06-2	1,2-Dichloroethane	0.00053	U	0.00053	0.0043	mg/Kg
79-01-6	Trichloroethene	0.00065	U	0.00065	0.0043	mg/Kg
78-87-5	1,2-Dichloropropane	0.00057	U	0.00057	0.0043	mg/Kg
75-27-4	Bromodichloromethane	0.00048	U	0.00048	0.0043	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.0038	U	0.0038	0.022	mg/Kg
108-88-3	Toluene	0.0015	J	0.00058	0.0043	mg/Kg

Raw Data: **VY020488.D**

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Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	11/27/24
Project:	Hamilton	Date Received:	11/27/24
Client Sample ID:	SOIL-1-HAM-GRAB	SDG No.:	P5026
Lab Sample ID:	P5026-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.8
Sample Wt/Vol:	6.51 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020488.D	1		12/02/24 16:21	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.00052	U	0.00052	0.0043	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.00049	U	0.00049	0.0043	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.00073	U	0.00073	0.0043	mg/Kg
591-78-6	2-Hexanone	0.0041	U	0.0041	0.022	mg/Kg
124-48-1	Dibromochloromethane	0.00056	U	0.00056	0.0043	mg/Kg
106-93-4	1,2-Dibromoethane	0.00068	U	0.00068	0.0043	mg/Kg
127-18-4	Tetrachloroethene	0.00077	U	0.00077	0.0043	mg/Kg
108-90-7	Chlorobenzene	0.00064	U	0.00064	0.0043	mg/Kg
100-41-4	Ethyl Benzene	0.00054	U	0.00054	0.0043	mg/Kg
179601-23-1	m/p-Xylenes	0.0012	U	0.0012	0.0086	mg/Kg
95-47-6	o-Xylene	0.00061	U	0.00061	0.0043	mg/Kg
100-42-5	Styrene	0.00052	U	0.00052	0.0043	mg/Kg
75-25-2	Bromoform	0.00070	U	0.00070	0.0043	mg/Kg
98-82-8	Isopropylbenzene	0.00058	U	0.00058	0.0043	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.00095	U	0.00095	0.0043	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.00064	U	0.00064	0.0043	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.00069	U	0.00069	0.0043	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.00051	U	0.00051	0.0043	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0013	U	0.0013	0.0043	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.00068	U	0.00068	0.0043	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.00067	U	0.00067	0.0043	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.7		50 - 163	113%	SPK: 50
1868-53-7	Dibromofluoromethane	27.7		54 - 147	55%	SPK: 50
2037-26-5	Toluene-d8	50.3		58 - 134	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		29 - 146	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	163000	7.719			
540-36-3	1,4-Difluorobenzene	319000	8.622			
3114-55-4	Chlorobenzene-d5	290000	11.426			
3855-82-1	1,4-Dichlorobenzene-d4	106000	13.352			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY020488.D**

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Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	11/27/24
Project:	Hamilton	Date Received:	11/27/24
Client Sample ID:	SOIL-1-HAM-GRAB	SDG No.:	P5026
Lab Sample ID:	P5026-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.8
Sample Wt/Vol:	6.51 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020488.D	1		12/02/24 16:21	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000124-18-5	Decane	20.7	J		12.7	ug/Kg
001120-21-4	Undecane	72.3	J		13.7	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	54.7	J		14.2	ug/Kg
002958-75-0	1-Methyldecahydronaphthalene	23.1	J		14.3	ug/Kg
000112-40-3	Dodecane	53.4	J		14.5	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	33.1	J		14.7	ug/Kg
015932-80-6	Cyclohexanone, 5-methyl-2-(1-methy	22.2	J		14.8	ug/Kg
1010309-19-2	Sulfurous acid, 2-ethylhexyl nonyl	22.1	J		15.1	ug/Kg
000629-50-5	Tridecane	34.5	J		15.4	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

Sample Results: **VY020488.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Time: Dec 02 21:58:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	162960	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	318573	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	289732	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.352	152	105689	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	94036	56.739	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.480%			
35) Dibromofluoromethane	7.646	113	55593	27.719	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 55.440%			
50) Toluene-d8	10.115	98	384370	50.331	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.660%			
62) 4-Bromofluorobenzene	12.414	95	119499	44.740	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 89.480%			
Target Compounds						Qvalue
16) Acetone	3.897	43	5671	13.761	ug/l #	88
17) Carbon Disulfide	4.122	76	26927	5.562	ug/l	96
52) Toluene	10.176	92	10761	1.727	ug/l	99

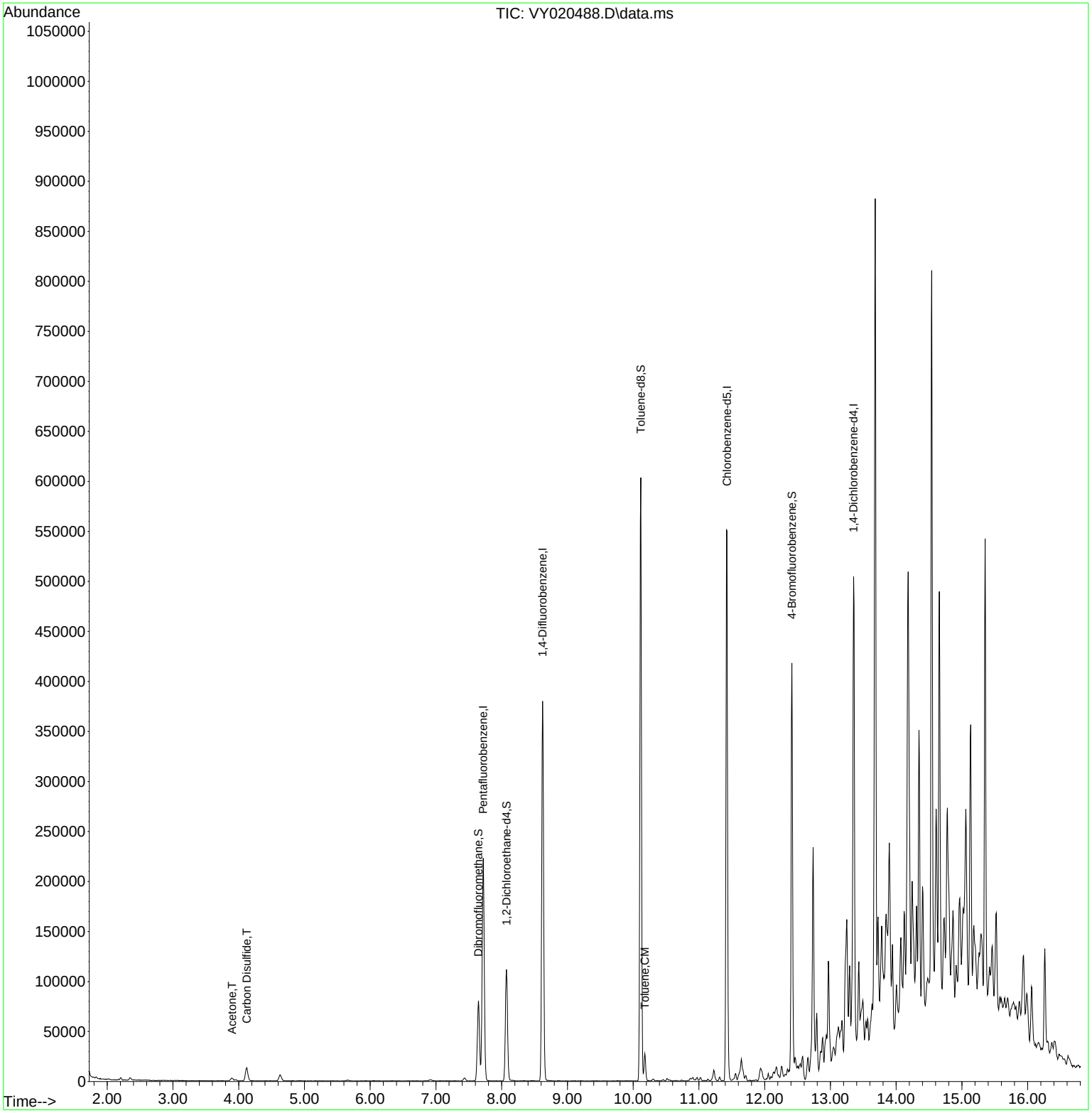
(#) = qualifier out of range (m) = manual integration (+) = signals summed

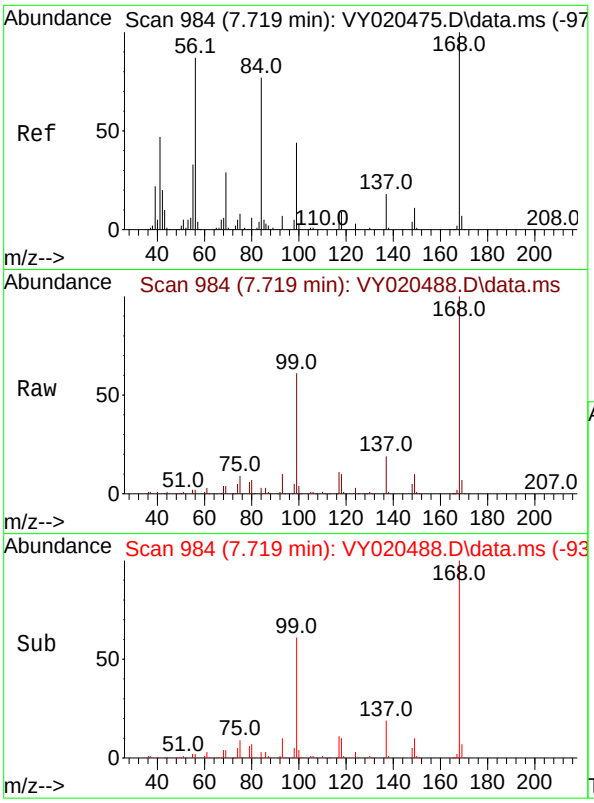
Sample Results: **VY020488.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Time: Dec 02 21:58:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration



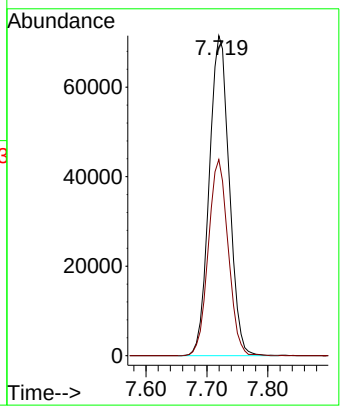


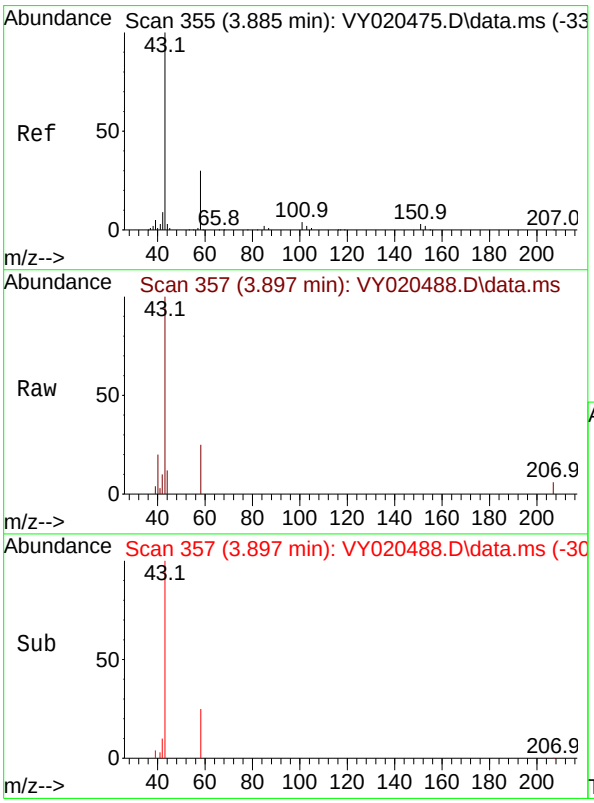
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020488.D
Acq: 02 Dec 2024 16:21

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Tgt Ion:168 Resp: 162960

Ion	Ratio	Lower	Upper
168	100		
99	61.3	46.6	69.8

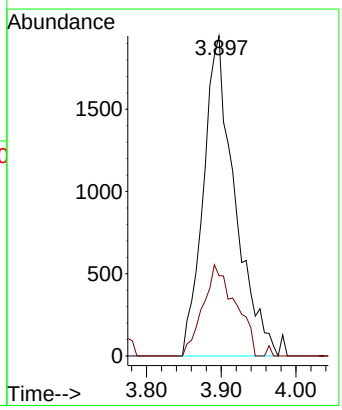


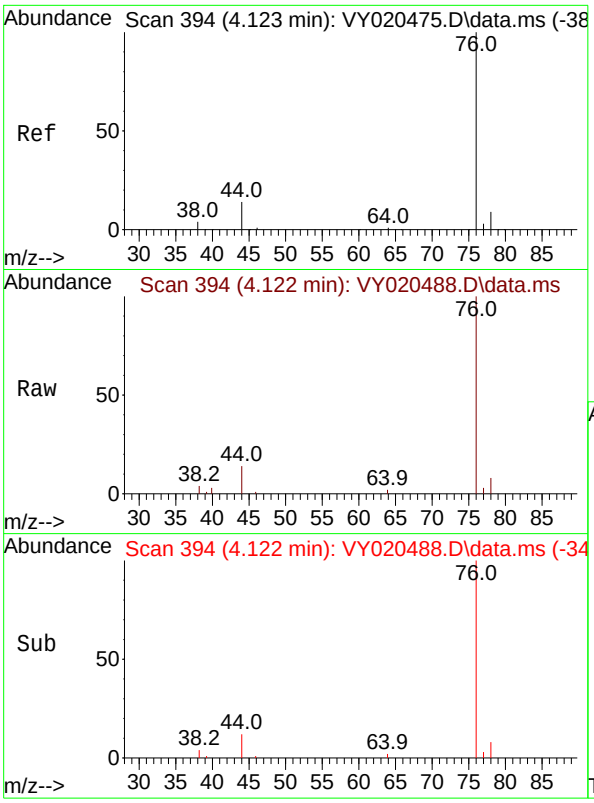


#16
Acetone
Concen: 13.761 ug/l
RT: 3.897 min Scan# 357
Delta R.T. 0.024 min
Lab File: VY020488.D
Acq: 02 Dec 2024 16:21

Tgt Ion: 43 Resp: 5671

Ion	Ratio	Lower	Upper
43	100		
58	25.1	25.7	38.5#



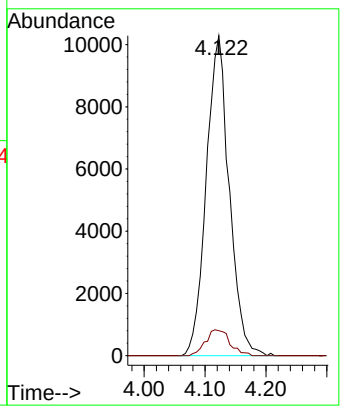


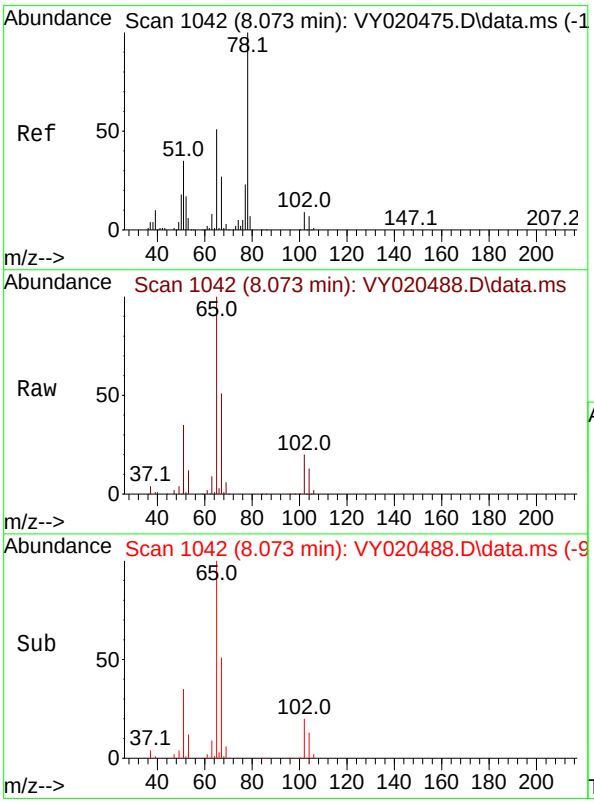
#17
Carbon Disulfide
Concen: 5.562 ug/l
RT: 4.122 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY020488.D
Acq: 02 Dec 2024 16:21

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Tgt Ion: 76 Resp: 26927

Ion	Ratio	Lower	Upper
76	100		
78	7.8	7.3	10.9

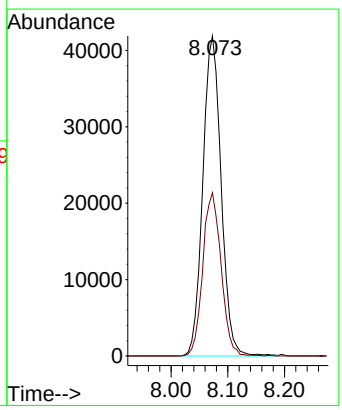


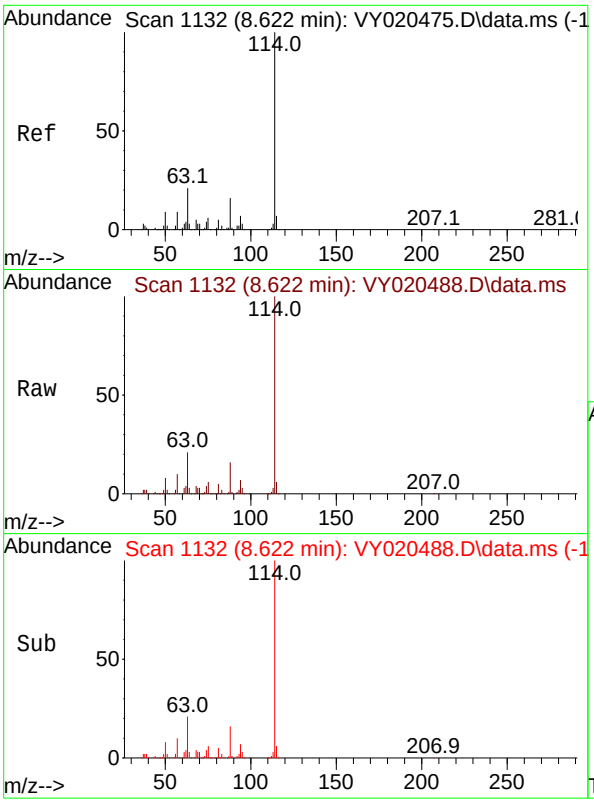


#33
1,2-Dichloroethane-d4
Concen: 56.739 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY020488.D
Acq: 02 Dec 2024 16:21

Tgt Ion: 65 Resp: 94036

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	105.8



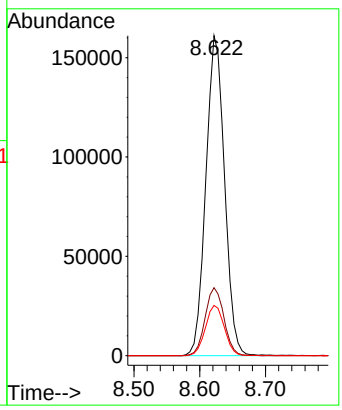


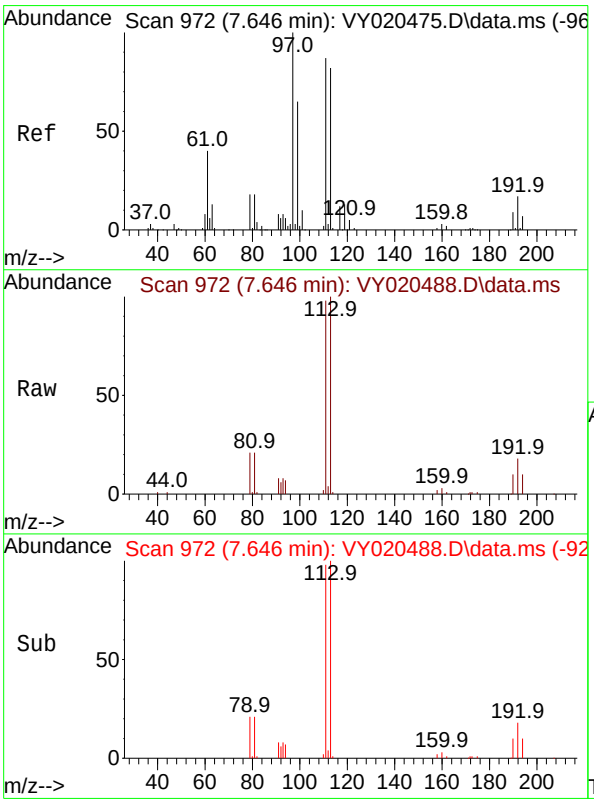
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020488.D
Acq: 02 Dec 2024 16:21

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Tgt Ion:114 Resp: 318573

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	44.8
88	15.7	0.0	32.0

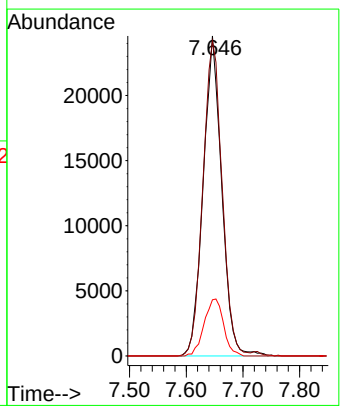


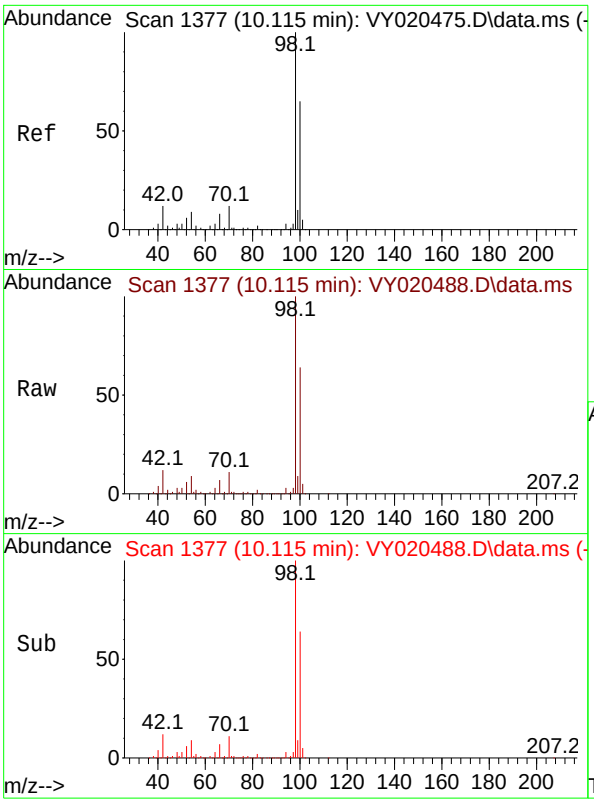


#35
Dibromofluoromethane
Concen: 27.719 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY020488.D
Acq: 02 Dec 2024 16:21

Tgt Ion:113 Resp: 55593

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.4	122.0
192	18.8	15.1	22.7



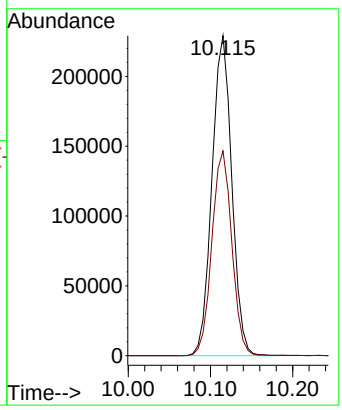


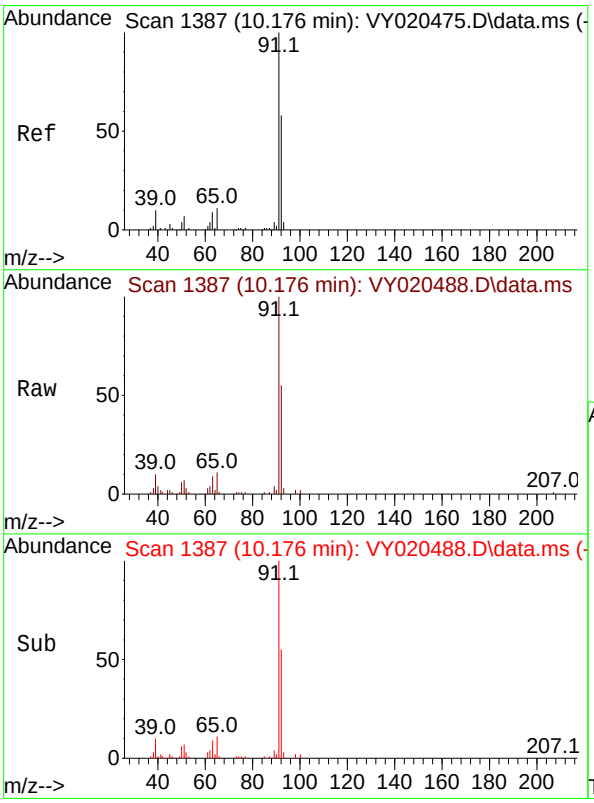
#50
Toluene-d8
Concen: 50.331 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020488.D
Acq: 02 Dec 2024 16:21

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Tgt Ion: 98 Resp: 384370

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.3	76.9

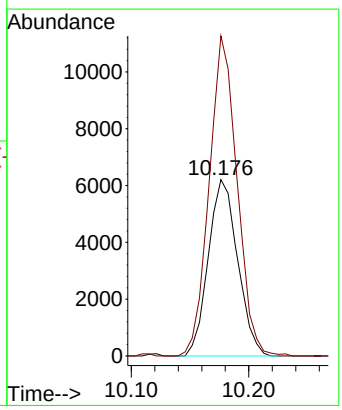


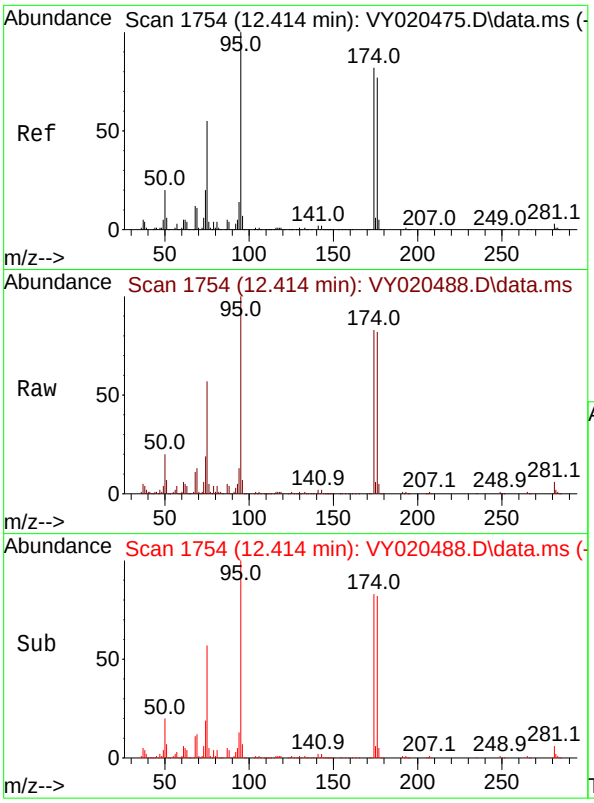


#52
Toluene
Concen: 1.727 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY020488.D
Acq: 02 Dec 2024 16:21

Tgt Ion: 92 Resp: 10761

Ion	Ratio	Lower	Upper
92	100		
91	172.9	139.7	209.5



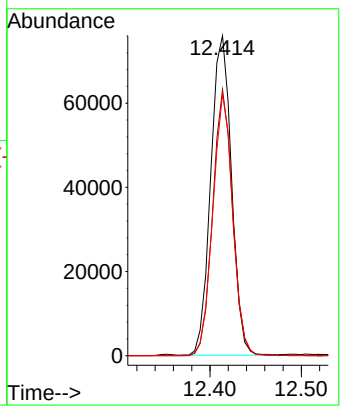


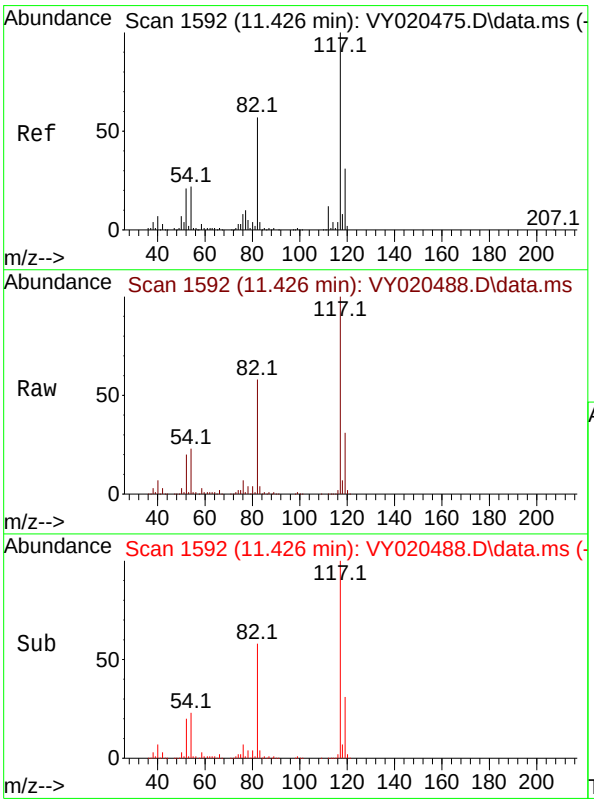
#62
4-Bromofluorobenzene
Concen: 44.740 ug/l
RT: 12.414 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY020488.D
Acq: 02 Dec 2024 16:21

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Tgt Ion: 95 Resp: 119499

Ion	Ratio	Lower	Upper
95	100		
174	80.0	0.0	156.8
176	78.7	0.0	152.0

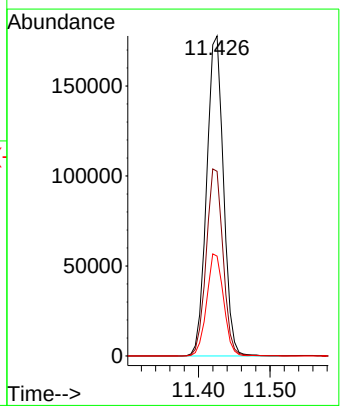


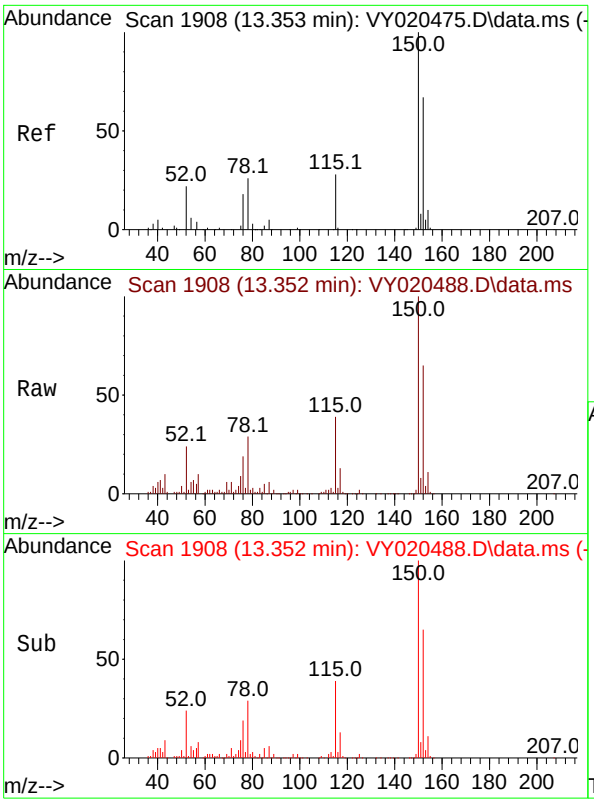


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1592
Delta R.T. 0.012 min
Lab File: VY020488.D
Acq: 02 Dec 2024 16:21

Tgt Ion:117 Resp: 289732

Ion	Ratio	Lower	Upper
117	100		
82	57.7	48.2	72.4
119	31.2	25.8	38.8



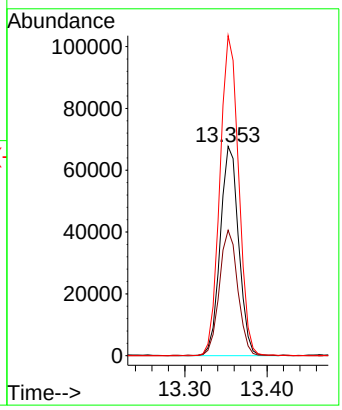


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020488.D
Acq: 02 Dec 2024 16:21

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Tgt Ion:152 Resp: 105689

Ion	Ratio	Lower	Upper
152	100		
115	59.8	30.0	90.0
150	155.5	0.0	348.2



Sample Results: **VY020488.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

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\82Y120224S.M
Title : SW846 8260

Signal : TIC: VY020488.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.122	384	394	404	rBV2	13172	34943	2.57%	0.200%
2	4.628	468	477	489	rVB2	6088	17088	1.26%	0.098%
3	7.646	963	972	977	rBV2	80264	183948	13.54%	1.052%
4	7.719	977	984	996	rVB	222415	502704	37.02%	2.875%
5	8.073	1031	1042	1057	rBV	111476	252762	18.61%	1.446%
6	8.622	1123	1132	1143	rBV	379696	760922	56.03%	4.352%
7	10.115	1369	1377	1383	rBV	603255	1027924	75.69%	5.880%
8	10.176	1383	1387	1394	rVB	27174	47427	3.49%	0.271%
9	11.225	1549	1559	1569	rBV4	10833	22242	1.64%	0.127%
10	11.420	1584	1591	1603	rBV	550843	922284	67.91%	5.275%
11	11.554	1603	1613	1618	rVV8	7321	16337	1.20%	0.093%
12	11.645	1618	1628	1636	rVV7	22021	66499	4.90%	0.380%
13	11.938	1668	1676	1687	rBV7	12686	39475	2.91%	0.226%
14	12.176	1711	1715	1720	rVV4	10458	20906	1.54%	0.120%
15	12.255	1724	1728	1734	rBV4	11254	20501	1.51%	0.117%
16	12.414	1748	1754	1760	rBV2	407735	643456	47.38%	3.680%
17	12.462	1760	1762	1766	rVB4	10738	14845	1.09%	0.085%
18	12.578	1777	1781	1787	rVB4	23088	42349	3.12%	0.242%
19	12.658	1787	1794	1798	rBV4	21747	45034	3.32%	0.258%
20	12.737	1798	1807	1812	rBV2	224139	388047	28.57%	2.220%
21	12.792	1812	1816	1821	rVB2	57138	89183	6.57%	0.510%
22	12.853	1821	1826	1827	rBV3	19086	27987	2.06%	0.160%
23	12.883	1827	1831	1834	rVB2	24650	34864	2.57%	0.199%
24	12.938	1834	1840	1841	rBV2	27311	51156	3.77%	0.293%
25	12.968	1841	1845	1852	rVB	100036	166681	12.27%	0.953%
26	13.048	1852	1858	1862	rBV7	13868	32643	2.40%	0.187%
27	13.121	1862	1870	1873	rBV7	27733	75033	5.53%	0.429%
28	13.176	1877	1879	1883	rVB3	30931	35693	2.63%	0.204%
29	13.249	1883	1891	1895	rBV4	131743	330808	24.36%	1.892%
30	13.292	1895	1898	1901	rVV2	64439	81937	6.03%	0.469%
31	13.353	1901	1908	1915	rVB	463458	811834	59.78%	4.644%
32	13.432	1916	1921	1924	rBV2	77665	113931	8.39%	0.652%
33	13.541	1935	1939	1941	rBV4	18339	27470	2.02%	0.157%
34	13.633	1947	1954	1955	rBV6	35459	63556	4.68%	0.364%
35	13.682	1955	1962	1966	rVV2	838342	1358059	100.00%	7.768%
36	13.724	1966	1969	1973	rVV2	117476	190844	14.05%	1.092%

Sample Results: **VY020488.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

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\82Y120224S.M
Title : SW846 8260

37	13.779	1973	1978	1983	rVV6	106626	260247	19.16%	1.489%
38	13.846	1985	1989	1993	rVV4	115702	278678	20.52%	1.594%
39	13.895	1993	1997	2002	rVV4	184690	378748	27.89%	2.166%
40	13.944	2002	2005	2009	rVB4	84759	113477	8.36%	0.649%
41	14.005	2011	2015	2020	rBV7	41725	78162	5.76%	0.447%
42	14.072	2021	2026	2031	rVV6	82688	182955	13.47%	1.046%
43	14.121	2031	2034	2038	rVV4	107097	189759	13.97%	1.085%
44	14.182	2038	2044	2051	rVV6	443520	1026271	75.57%	5.870%
45	14.243	2051	2054	2061	rVV4	131472	289158	21.29%	1.654%
46	14.310	2061	2065	2067	rVV2	104795	154064	11.34%	0.881%
47	14.346	2067	2071	2076	rVV2	278458	434053	31.96%	2.483%
48	14.401	2076	2080	2087	rVB3	119556	201528	14.84%	1.153%
49	14.541	2098	2103	2109	rBV	709231	1002297	73.80%	5.733%
50	14.608	2109	2114	2118	rVV3	171760	298008	21.94%	1.705%
51	14.657	2118	2122	2129	rVB	397257	621199	45.74%	3.553%
52	14.730	2129	2134	2137	rBV4	70684	136373	10.04%	0.780%
53	14.779	2137	2142	2150	rVV3	175279	416333	30.66%	2.381%
54	14.864	2154	2156	2160	rVB3	86958	110204	8.11%	0.630%
55	14.913	2160	2164	2167	rBV4	32373	51587	3.80%	0.295%
56	14.968	2168	2173	2177	rVV5	87406	180159	13.27%	1.030%
57	15.017	2177	2181	2183	rVV4	77863	137107	10.10%	0.784%
58	15.060	2184	2188	2194	rVV5	177871	338268	24.91%	1.935%
59	15.133	2194	2200	2204	rVV2	263283	414611	30.53%	2.371%
60	15.181	2204	2208	2216	rVB4	63487	154263	11.36%	0.882%
61	15.352	2231	2236	2242	rVB	455905	647158	47.65%	3.702%
62	15.462	2251	2254	2258	rVB3	50210	72886	5.37%	0.417%
63	15.523	2259	2264	2270	rVB4	96724	177142	13.04%	1.013%
64	15.937	2326	2332	2336	rVV3	59605	126031	9.28%	0.721%
65	15.986	2337	2340	2347	rVB3	47028	100185	7.38%	0.573%
66	16.059	2347	2352	2360	rVB2	58727	112751	8.30%	0.645%
67	16.261	2380	2385	2390	rBV	100311	161172	11.87%	0.922%
68	16.407	2406	2409	2417	rVB6	18333	44568	3.28%	0.255%
69	16.614	2439	2443	2454	rVB7	11296	32317	2.38%	0.185%

Sum of corrected areas: 17483091

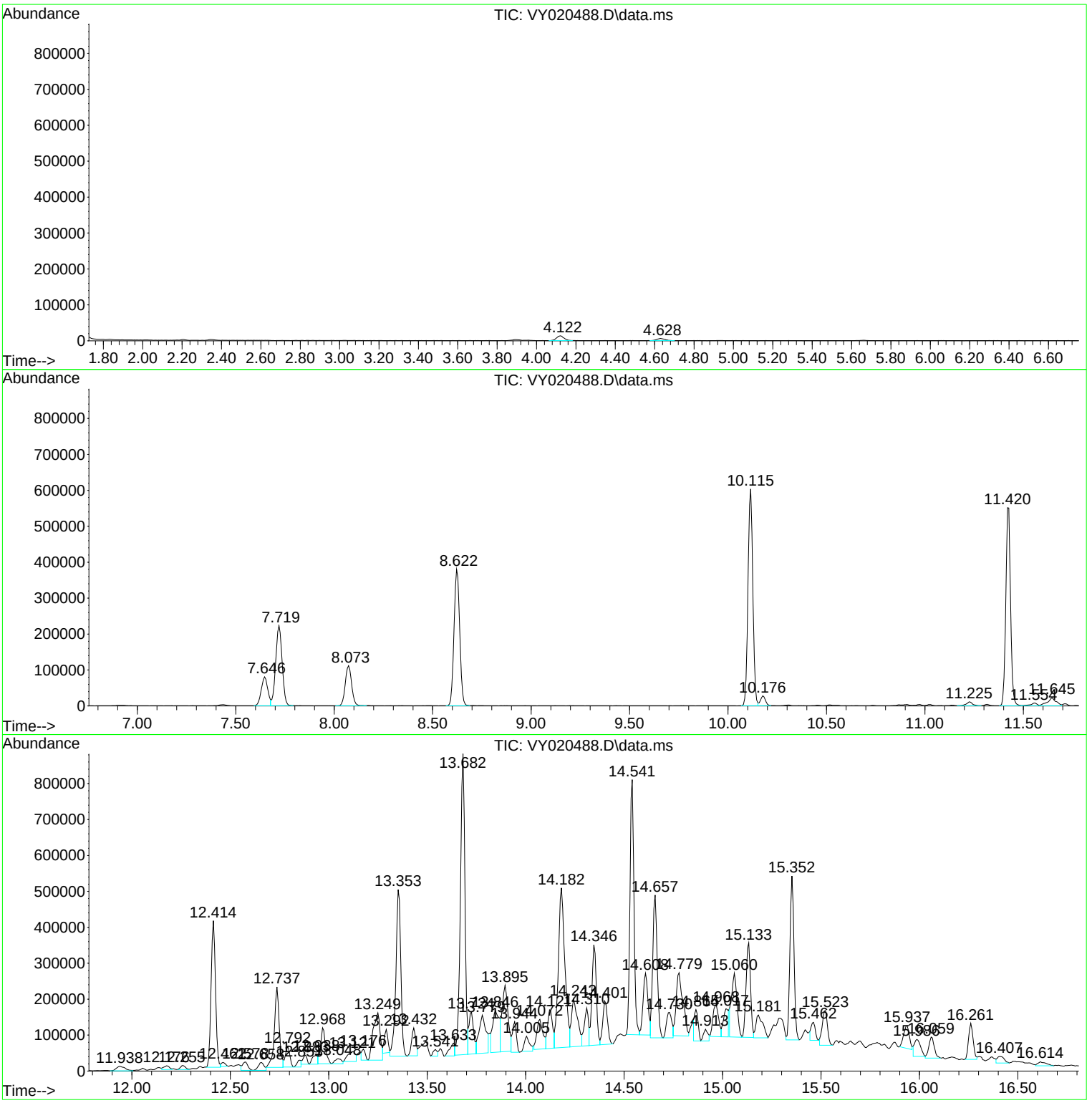
Sample Results: **VY020488.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

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



Sample Results: **VY020488.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

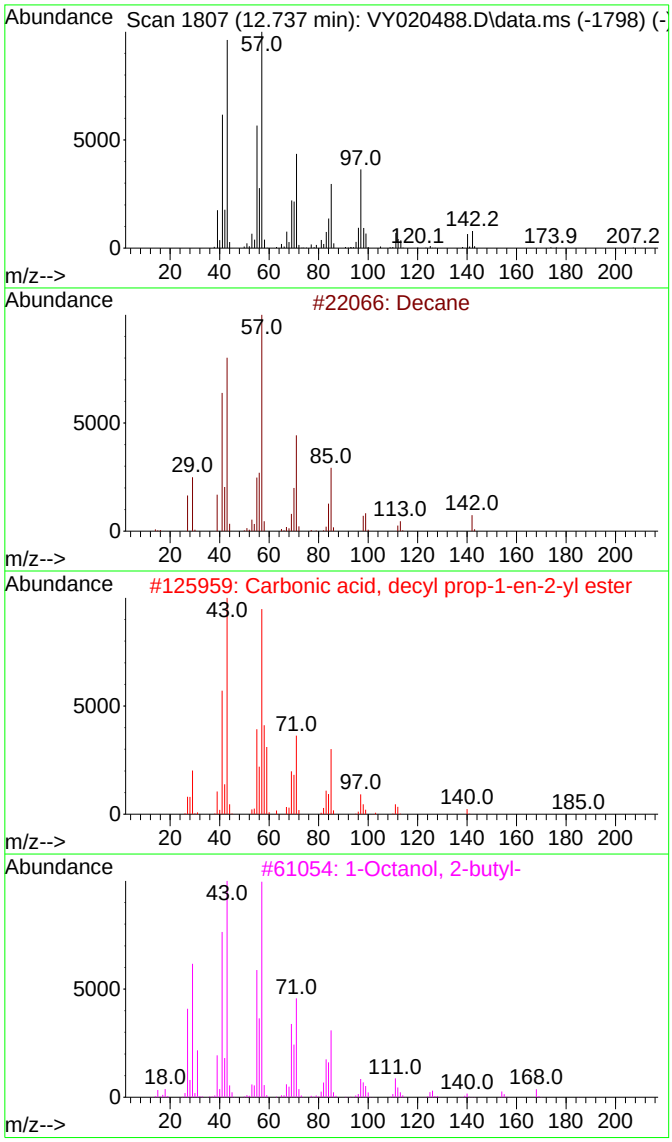
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

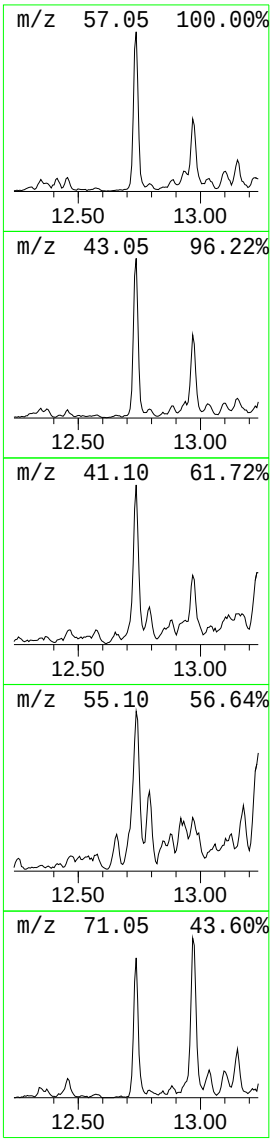
****

Peak Number 1 Decane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.737	23.90 ug/l	388047	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	95
2	Carbonic acid, decyl prop-1-en-2...	242	C14H26O3	1000382-90-5	80
3	1-Octanol, 2-butyl-	186	C12H26O	003913-02-8	72
4	Oxalic acid, allyl octadecyl ester	382	C23H42O4	1000309-24-5	72
5	Undecane	156	C11H24	001120-21-4	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

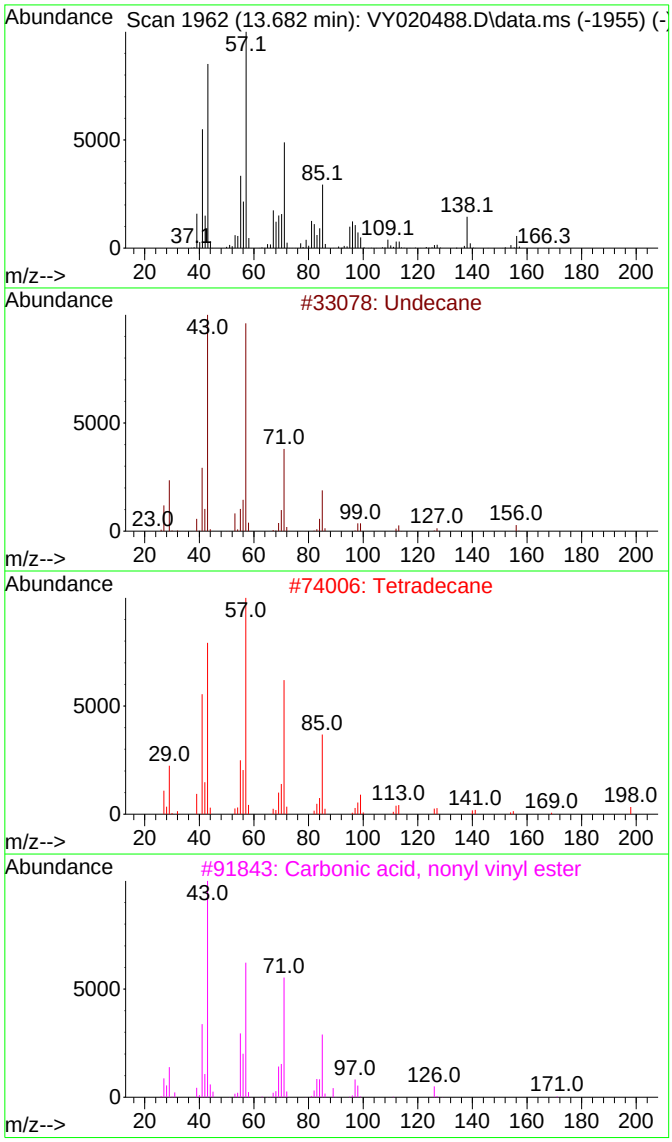
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

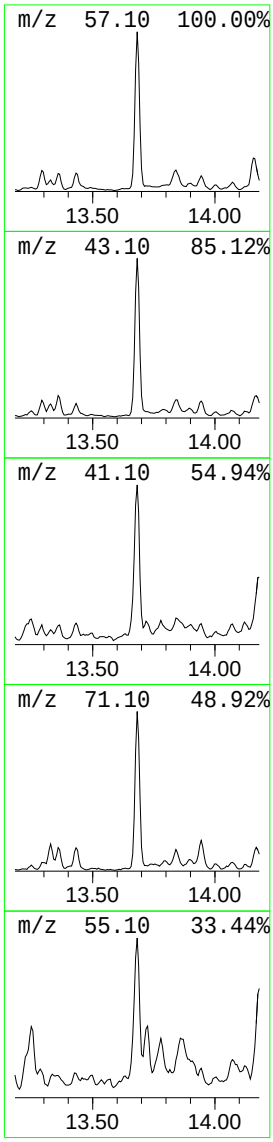
****

Peak Number 2 Undecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.682	83.64 ug/l	1358060	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	76
2	Tetradecane	198	C14H30	000629-59-4	58
3	Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	58
4	Carbonic acid, dodecyl prop-1-en...	270	C16H30O3	1000382-90-7	58
5	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	53





Sample Results: **VY020488.D**

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On    : 02 Dec 2024  16:21
Operator  : SY/MD
Sample    : P5026-04
Misc      : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title  : SW846 8260

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

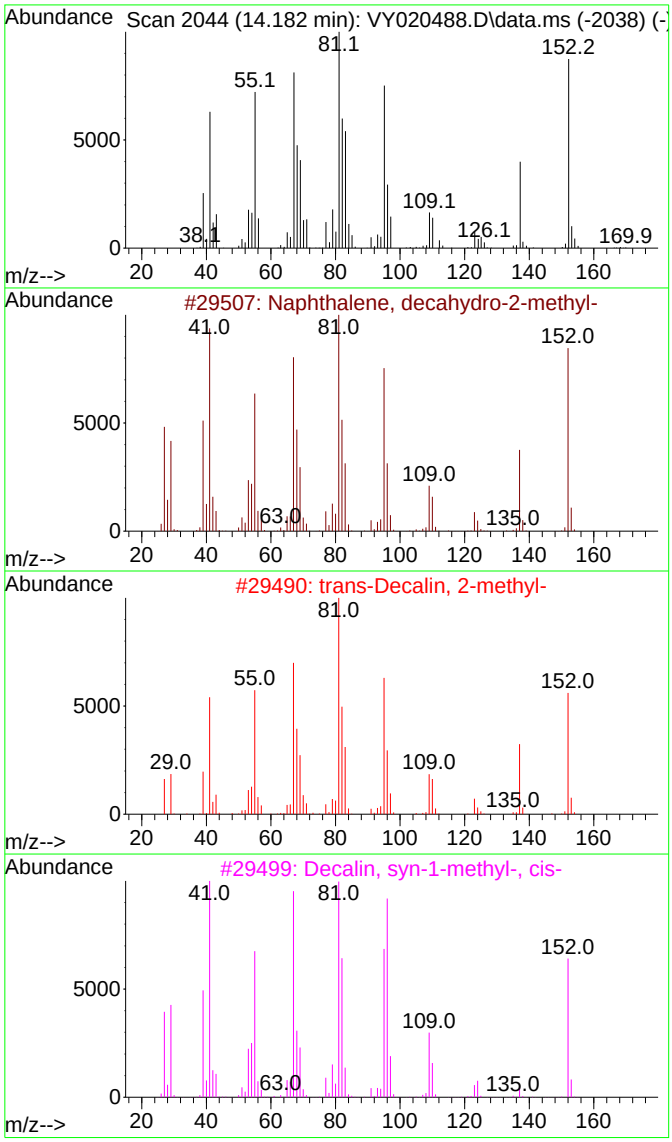
Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

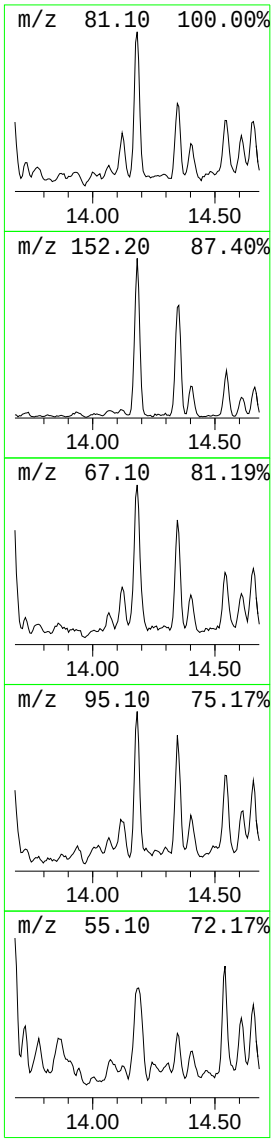
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.182	63.21 ug/l	1026270	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	97
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	96
3	Decalin, syn-1-methyl-, cis-	152	C11H20	1000158-89-1	76
4	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	74
5	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	72





Sample Results: **VY020488.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

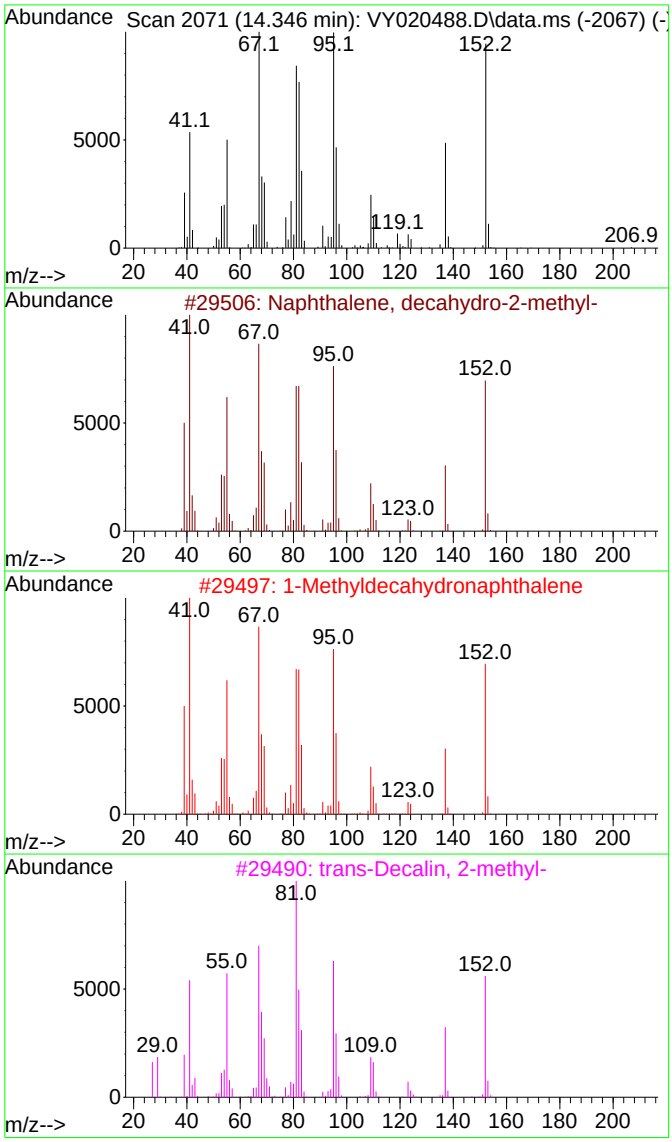
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

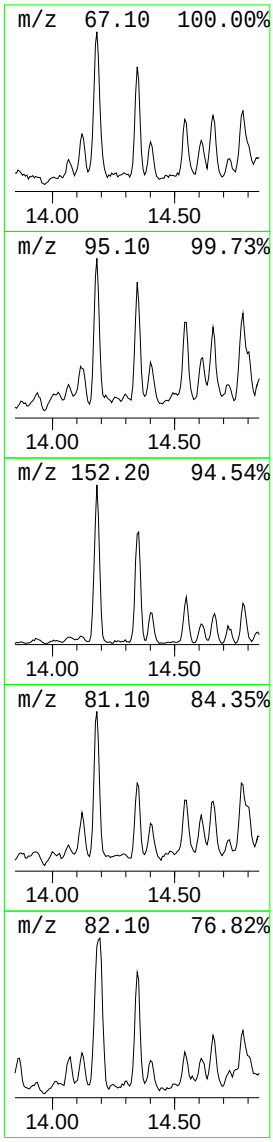
****

Peak Number 5 1-Methyldecahydronaphthalene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.346	26.73 ug/l	434053	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	96
2	1-Methyldecahydronaphthalene	152	C11H20	002958-75-0	96
3	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	81
4	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	74
5	Bicyclo[2.2.1]heptane, 1,3,3-tri...	138	C10H18	006248-88-0	70





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

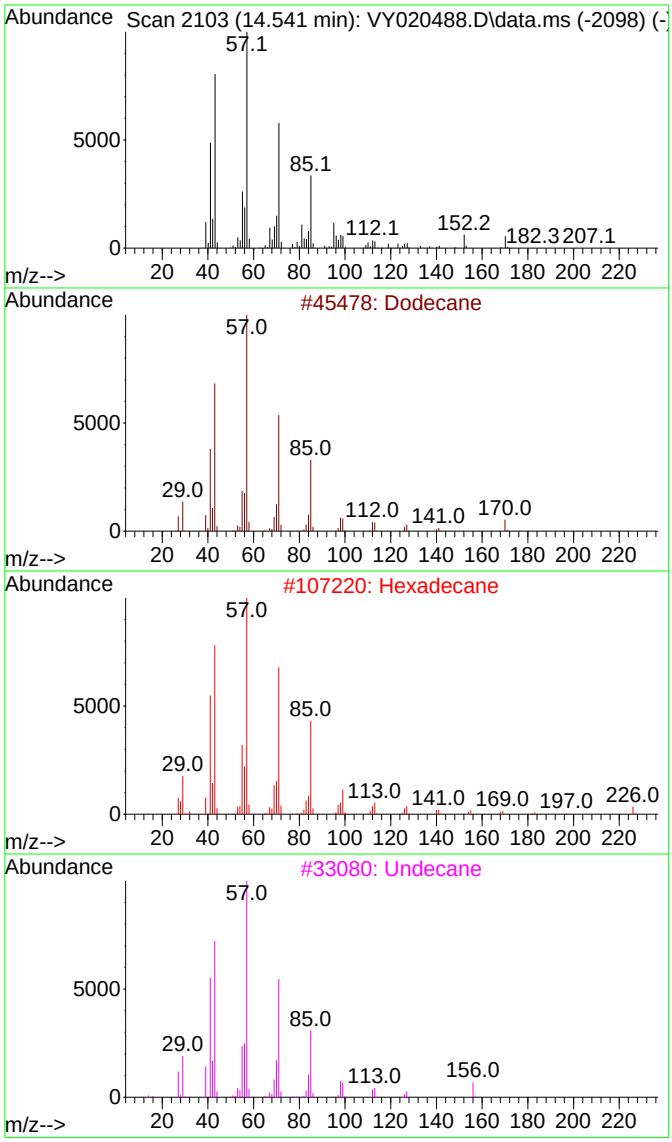
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

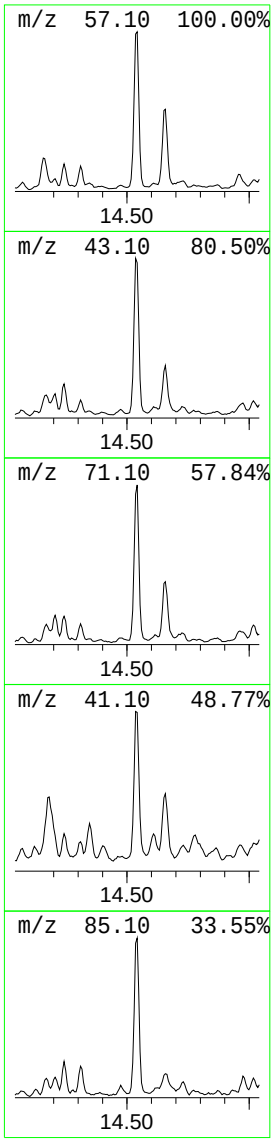
****

Peak Number 6 Dodecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.541	61.73 ug/l	1002300	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	91
2	Hexadecane	226	C16H34	000544-76-3	72
3	Undecane	156	C11H24	001120-21-4	72
4	Tetradecane	198	C14H30	000629-59-4	72
5	Tridecane	184	C13H28	000629-50-5	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

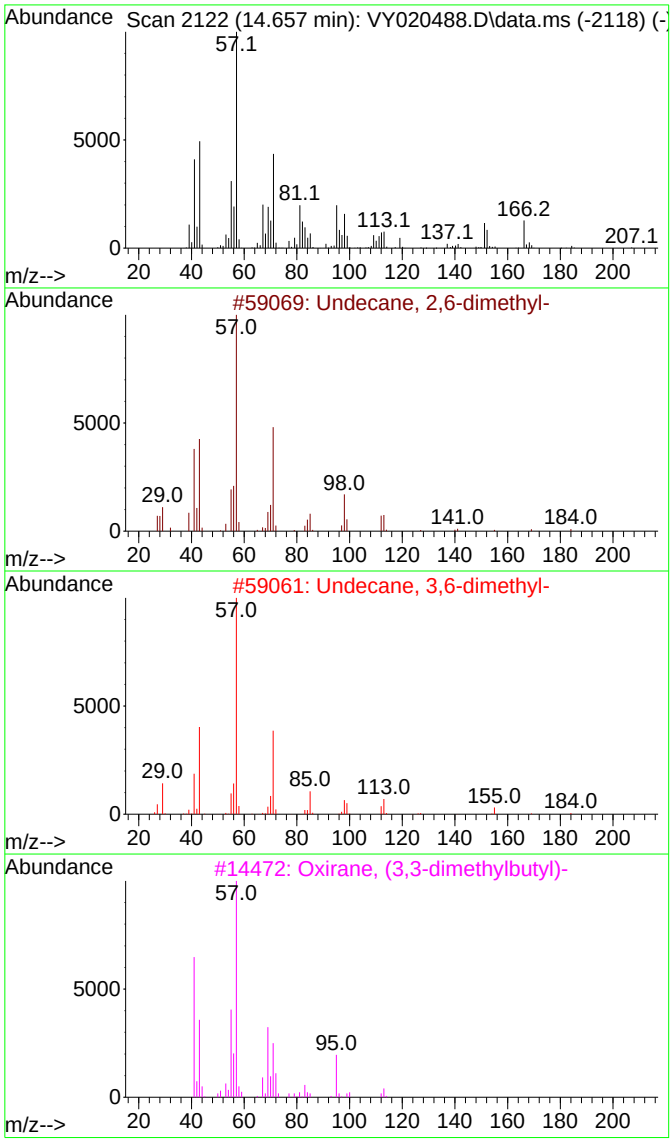
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

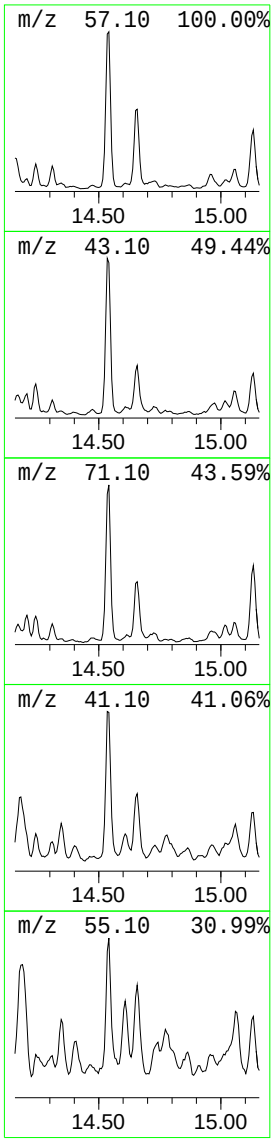
****

Peak Number 7 Undecane, 2,6-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.657	38.26 ug/l	621199	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	95
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	55
3	Oxirane, (3,3-dimethylbutyl)-	128	C8H16O	053907-77-0	53
4	Undecane, 2,5-dimethyl-	184	C13H28	017301-22-3	45
5	Nonane, 3-methyl-	142	C10H22	005911-04-6	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

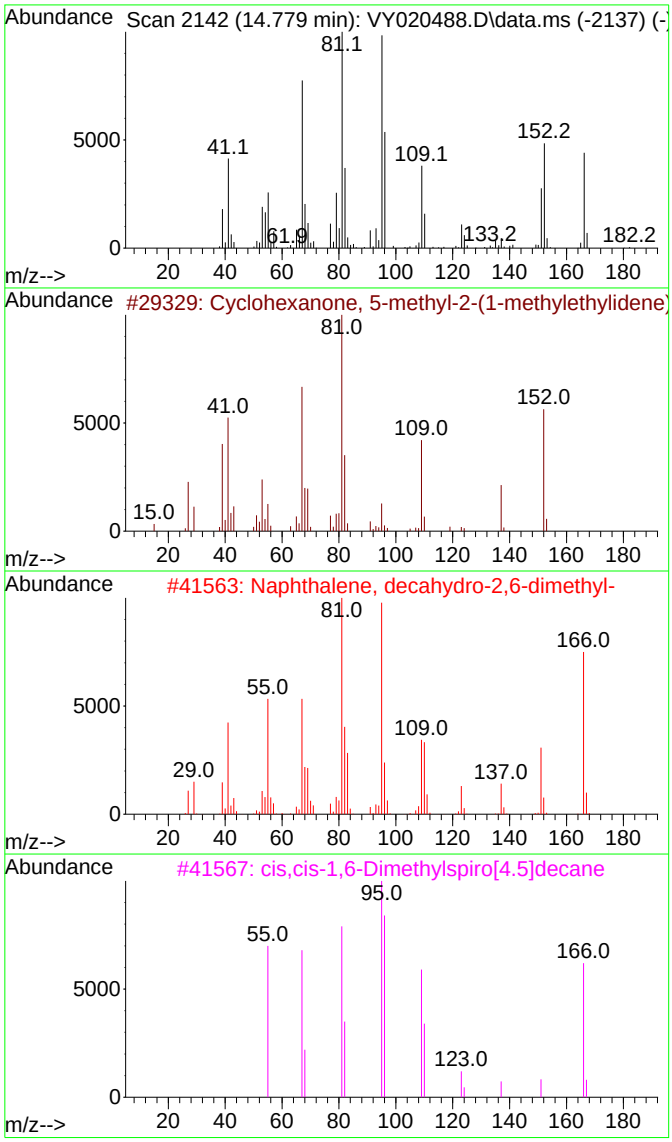
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

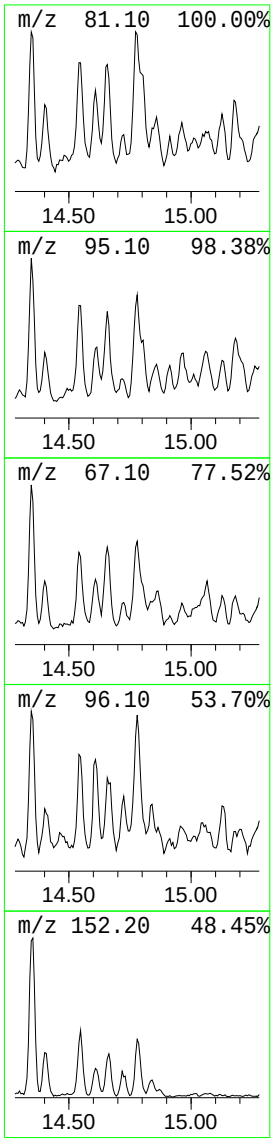
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Cyclohexanone, 5-methyl-2-(... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.779	25.64 ug/l	416333	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	70
2	Naphthalene, decahydro-2,6-dimet...	166	C12H22	001618-22-0	64
3	cis,cis-1,6-Dimethylspiro[4.5]de...	166	C12H22	1000111-72-4	64
4	5,7-Dodecadiene, (Z,Z)-	166	C12H22	006108-62-9	60
5	Cyclohexene,1-hexyl-	166	C12H22	003964-66-7	60





Sample Results: **VY020488.D**

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On    : 02 Dec 2024  16:21
Operator  : SY/MD
Sample    : P5026-04
Misc      : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title  : SW846 8260

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

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

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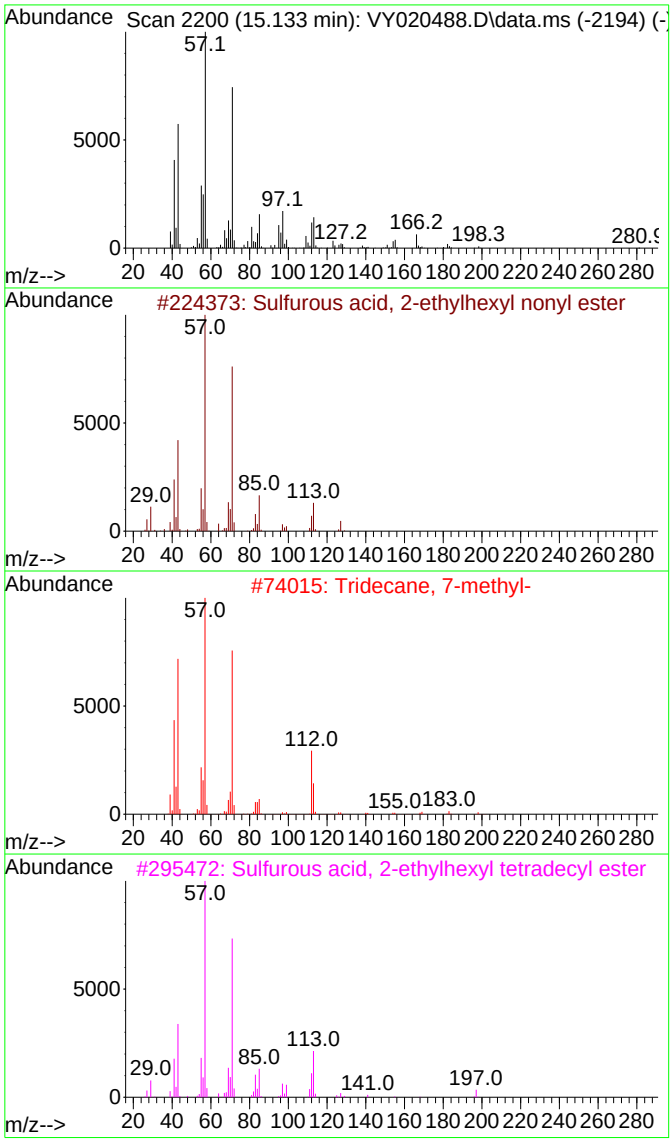
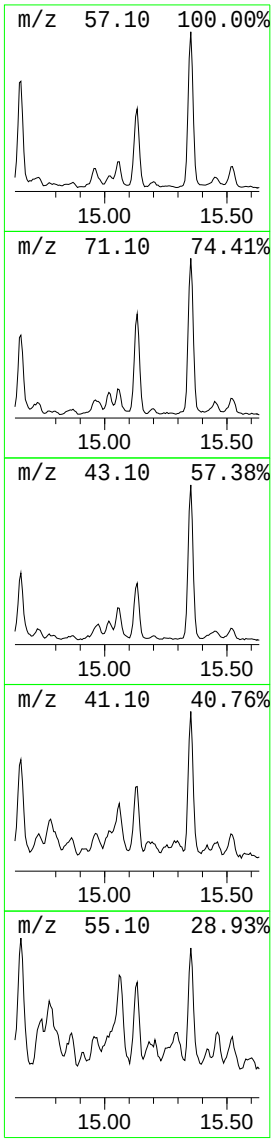
Peak Number 9 Sulfurous acid, 2-ethylhexy... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.133	25.54 ug/l	414611	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1010309-19-2	72
2	Tridecane, 7-methyl-	198	C14H30	026730-14-3	62
3	Sulfurous acid, 2-ethylhexyl tet...	390	C22H46O3S	1000309-19-7	59
4	Nonane, 4-methyl-5-propyl-	184	C13H28	062185-55-1	52
5	Decane, 5-propyl-	184	C13H28	017312-62-8	52





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

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

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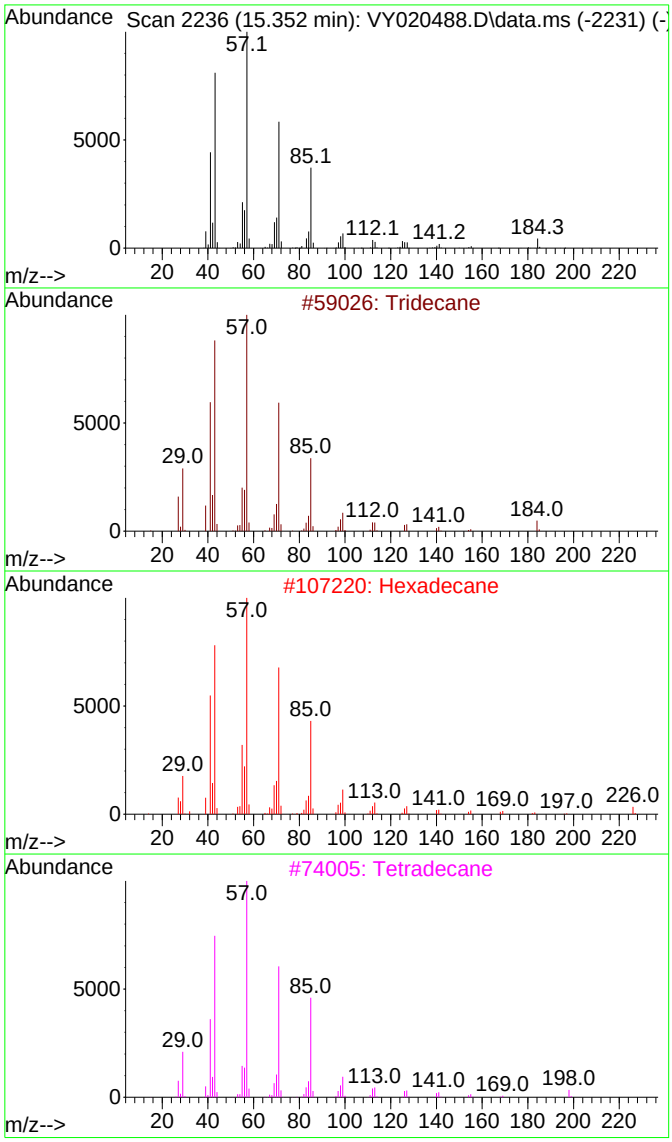
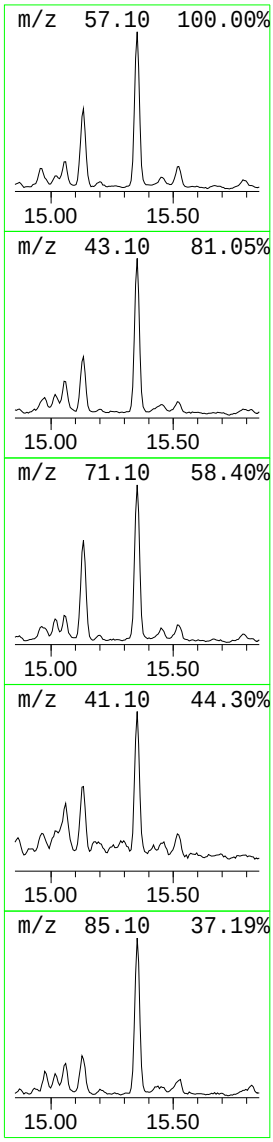
Peak Number 10 Tridecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.352	39.86 ug/l	647158	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	96
2	Hexadecane	226	C16H34	000544-76-3	91
3	Tetradecane	198	C14H30	000629-59-4	80
4	Carbonic acid, tetradecyl vinyl ...	284	C17H32O3	1000382-54-5	80
5	Carbonic acid, dodecyl vinyl ester	256	C15H28O3	1000382-54-8	80





Sample Results: **VY020488.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020488.D
Acq On : 02 Dec 2024 16:21
Operator : SY/MD
Sample : P5026-04
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Decane	12.737	23.9	ug/l	388047	4	13.352	811834	50.0
Undecane	13.682	83.6	ug/l	1358060	4	13.352	811834	50.0
Naphthalene, de...	14.182	63.2	ug/l	1026270	4	13.352	811834	50.0
1-Methyldecahyd...	14.346	26.7	ug/l	434053	4	13.352	811834	50.0
Dodecane	14.541	61.7	ug/l	1002300	4	13.352	811834	50.0
Undecane, 2,6-d...	14.657	38.3	ug/l	621199	4	13.352	811834	50.0
Cyclohexanone, ...	14.779	25.6	ug/l	416333	4	13.352	811834	50.0
Sulfurous acid,...	15.133	25.5	ug/l	414611	4	13.352	811834	50.0
Tridecane	15.352	39.9	ug/l	647158	4	13.352	811834	50.0

Raw Data: **VY020489.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	11/27/24
Project:	Hamilton	Date Received:	11/27/24
Client Sample ID:	SOIL-1-HAM-GRAB	SDG No.:	P5026
Lab Sample ID:	P5026-08	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75
Sample Wt/Vol:	7.29 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020489.D	1		12/02/24 16:44	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0015	U	0.0015	0.0046	mg/Kg
74-87-3	Chloromethane	0.0011	U	0.0011	0.0046	mg/Kg
75-01-4	Vinyl Chloride	0.00070	U	0.00070	0.0046	mg/Kg
74-83-9	Bromomethane	0.00094	U	0.00094	0.0046	mg/Kg
75-00-3	Chloroethane	0.00092	U	0.00092	0.0046	mg/Kg
75-69-4	Trichlorofluoromethane	0.00083	U	0.00083	0.0046	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.00098	U	0.00098	0.0046	mg/Kg
75-35-4	1,1-Dichloroethene	0.00071	U	0.00071	0.0046	mg/Kg
67-64-1	Acetone	0.0057	U	0.0057	0.023	mg/Kg
75-15-0	Carbon Disulfide	0.0012	U	0.0012	0.0046	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.00061	U	0.00061	0.0046	mg/Kg
79-20-9	Methyl Acetate	0.0016	U	0.0016	0.0046	mg/Kg
75-09-2	Methylene Chloride	0.0031	U	0.0031	0.0091	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.00077	U	0.00077	0.0046	mg/Kg
75-34-3	1,1-Dichloroethane	0.00058	U	0.00058	0.0046	mg/Kg
110-82-7	Cyclohexane	0.00063	U	0.00063	0.0046	mg/Kg
78-93-3	2-Butanone	0.0052	U	0.0052	0.023	mg/Kg
56-23-5	Carbon Tetrachloride	0.00080	U	0.00080	0.0046	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.00056	U	0.00056	0.0046	mg/Kg
74-97-5	Bromochloromethane	0.0022	U	0.0022	0.0046	mg/Kg
67-66-3	Chloroform	0.0066		0.00061	0.0046	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.00071	U	0.00071	0.0046	mg/Kg
108-87-2	Methylcyclohexane	0.00080	U	0.00080	0.0046	mg/Kg
71-43-2	Benzene	0.00066	U	0.00066	0.0046	mg/Kg
107-06-2	1,2-Dichloroethane	0.00056	U	0.00056	0.0046	mg/Kg
79-01-6	Trichloroethene	0.00069	U	0.00069	0.0046	mg/Kg
78-87-5	1,2-Dichloropropane	0.00060	U	0.00060	0.0046	mg/Kg
75-27-4	Bromodichloromethane	0.00051	U	0.00051	0.0046	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.0040	U	0.0040	0.023	mg/Kg
108-88-3	Toluene	0.00061	U	0.00061	0.0046	mg/Kg

Raw Data: **VY020489.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	11/27/24
Project:	Hamilton	Date Received:	11/27/24
Client Sample ID:	SOIL-1-HAM-GRAB	SDG No.:	P5026
Lab Sample ID:	P5026-08	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75
Sample Wt/Vol:	7.29 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020489.D	1		12/02/24 16:44	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.00055	U	0.00055	0.0046	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.00052	U	0.00052	0.0046	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.00077	U	0.00077	0.0046	mg/Kg
591-78-6	2-Hexanone	0.0044	U	0.0044	0.023	mg/Kg
124-48-1	Dibromochloromethane	0.00059	U	0.00059	0.0046	mg/Kg
106-93-4	1,2-Dibromoethane	0.00072	U	0.00072	0.0046	mg/Kg
127-18-4	Tetrachloroethene	0.00081	U	0.00081	0.0046	mg/Kg
108-90-7	Chlorobenzene	0.00068	U	0.00068	0.0046	mg/Kg
100-41-4	Ethyl Benzene	0.00057	U	0.00057	0.0046	mg/Kg
179601-23-1	m/p-Xylenes	0.0012	U	0.0012	0.0091	mg/Kg
95-47-6	o-Xylene	0.00064	U	0.00064	0.0046	mg/Kg
100-42-5	Styrene	0.00055	U	0.00055	0.0046	mg/Kg
75-25-2	Bromoform	0.00074	U	0.00074	0.0046	mg/Kg
98-82-8	Isopropylbenzene	0.00061	U	0.00061	0.0046	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.0046	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.00068	U	0.00068	0.0046	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.00073	U	0.00073	0.0046	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.00054	U	0.00054	0.0046	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0014	U	0.0014	0.0046	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.00072	U	0.00072	0.0046	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.00071	U	0.00071	0.0046	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.6		50 - 163	111%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		54 - 147	98%	SPK: 50
2037-26-5	Toluene-d8	50.2		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		29 - 146	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	7.719			
540-36-3	1,4-Difluorobenzene	342000	8.621			
3114-55-4	Chlorobenzene-d5	314000	11.426			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.352			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY020489.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	11/27/24
Project:	Hamilton	Date Received:	11/27/24
Client Sample ID:	SOIL-1-HAM-GRAB	SDG No.:	P5026
Lab Sample ID:	P5026-08	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75
Sample Wt/Vol:	7.29 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020489.D	1		12/02/24 16:44	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1000382-54-9	Carbonic acid, undecyl vinyl ester	19.0	J		13.7	ug/Kg
1000152-47-3	trans-Decalin, 2-methyl-	16.3	J		14.2	ug/Kg
002547-27-5	trans-4a-Methyl-decahydronaphthale	6.80	J		14.3	ug/Kg
000112-40-3	Dodecane	15.9	J		14.5	ug/Kg
	unknown14.608	5.90	J		14.6	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	11.8	J		14.7	ug/Kg
1000111-72-9	trans,cis-1,8-Dimethylspiro[4.5]de	8.40	J		14.8	ug/Kg
002051-30-1	Octane, 2,6-dimethyl-	8.30	J		15.1	ug/Kg
000629-50-5	Tridecane	10.2	J		15.4	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\VY120224\
Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Time: Dec 02 21:58:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	173047	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	342399	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	313778	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.352	152	120979	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	97815	55.579	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.160%			
35) Dibromofluoromethane	7.646	113	105910	49.133	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.260%			
50) Toluene-d8	10.115	98	412107	50.208	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.420%			
62) 4-Bromofluorobenzene	12.413	95	133872	46.634	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 93.260%			
Target Compounds						Qvalue
17) Carbon Disulfide	4.116	76	5589	1.087	ug/l	100
30) Chloroform	7.433	83	28421	7.220	ug/l	99

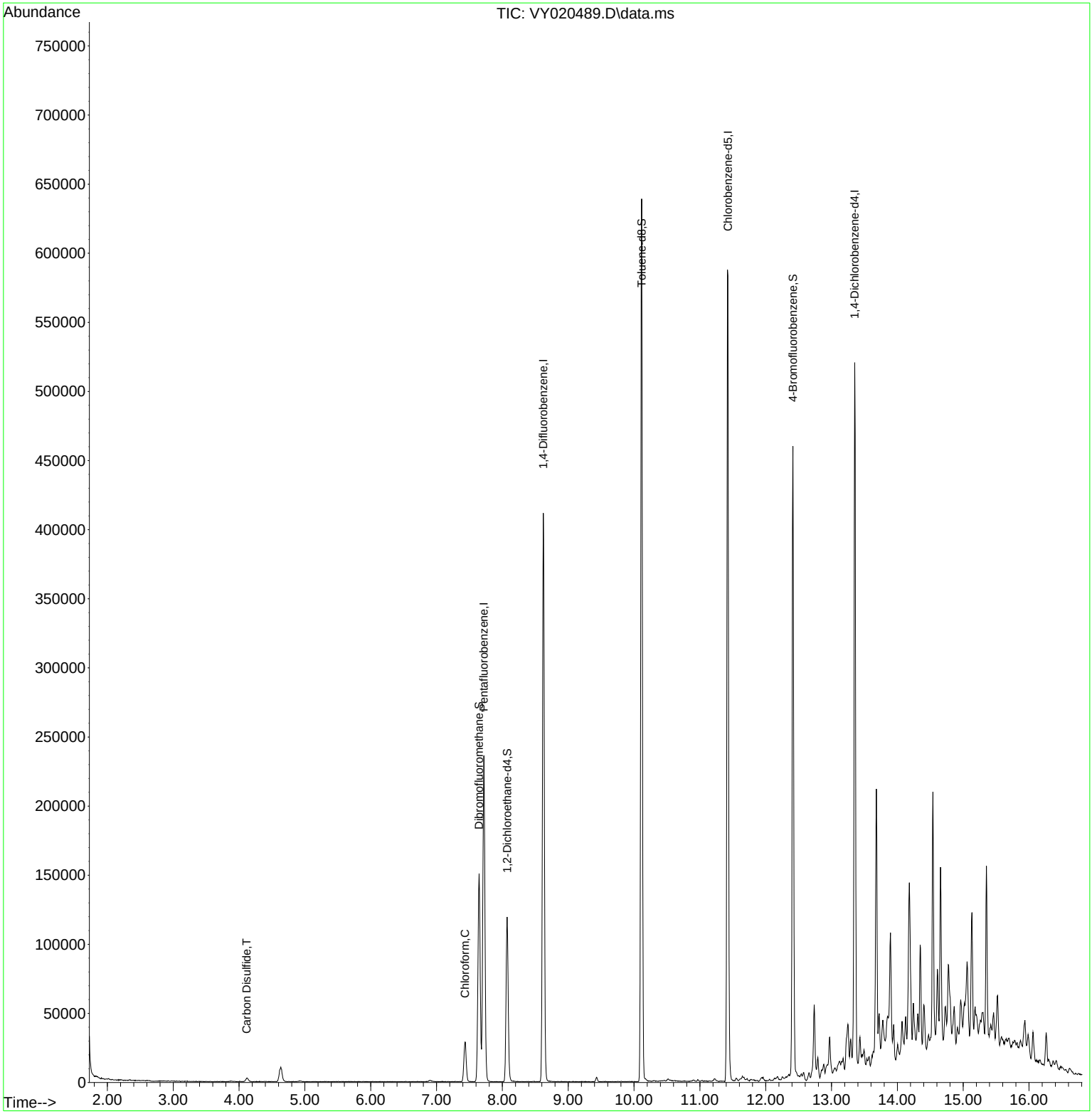
(#) = qualifier out of range (m) = manual integration (+) = signals summed

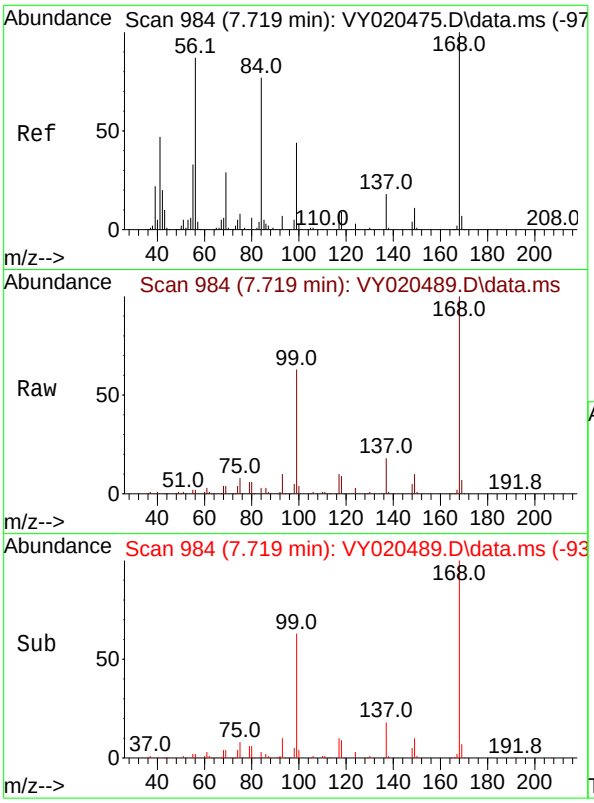
Sample Results: **VY020489.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Time: Dec 02 21:58:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration



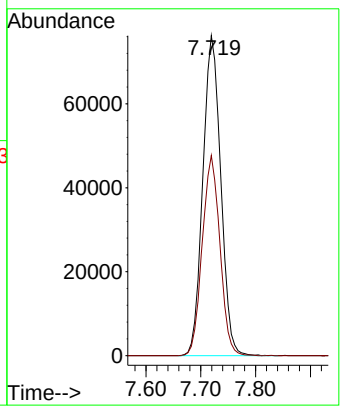


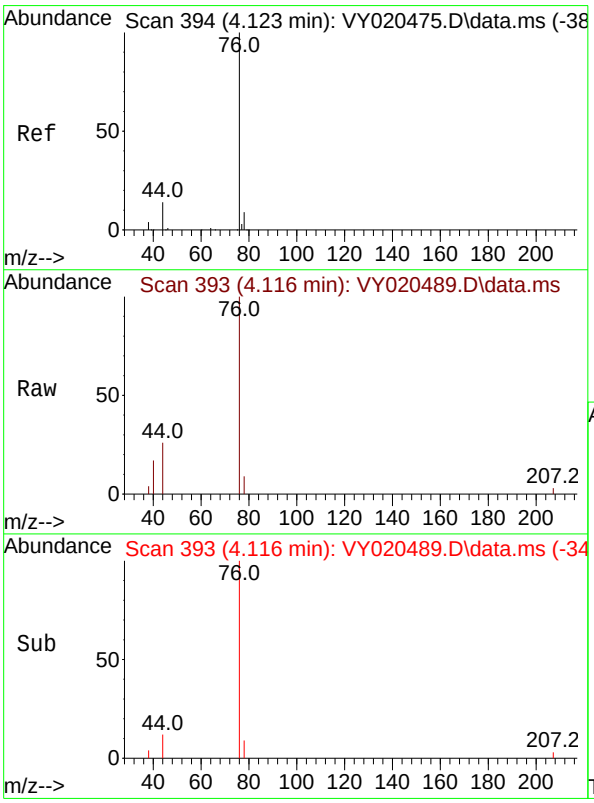
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020489.D
Acq: 02 Dec 2024 16:44

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Tgt Ion:168 Resp: 173047

Ion	Ratio	Lower	Upper
168	100		
99	62.5	46.6	69.8

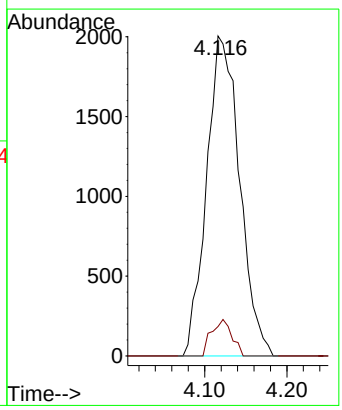


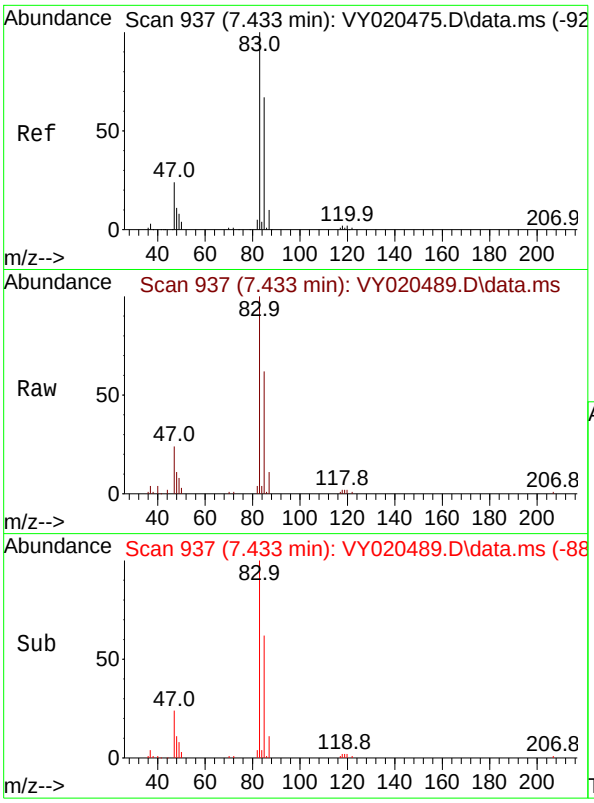


#17
Carbon Disulfide
Concen: 1.087 ug/l
RT: 4.116 min Scan# 393
Delta R.T. 0.006 min
Lab File: VY020489.D
Acq: 02 Dec 2024 16:44

Tgt Ion: 76 Resp: 5589

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9



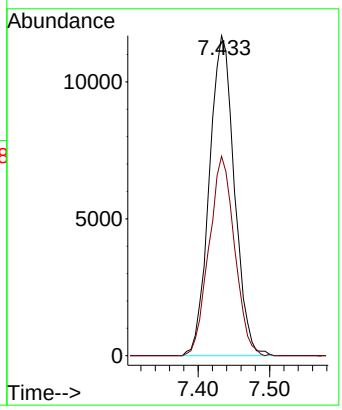


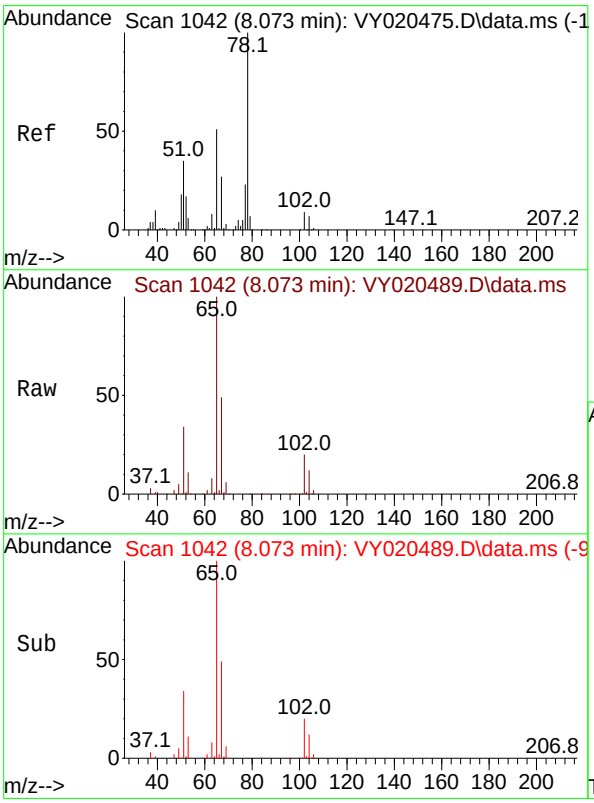
#30
Chloroform
Concen: 7.220 ug/l
RT: 7.433 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY020489.D
Acq: 02 Dec 2024 16:44

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Tgt Ion: 83 Resp: 28421

Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.3	75.5

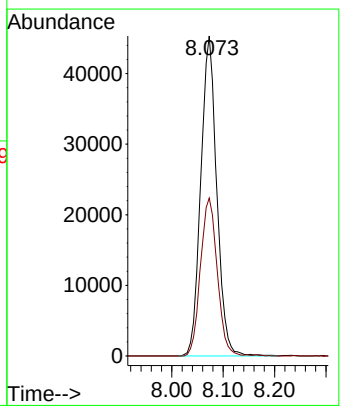


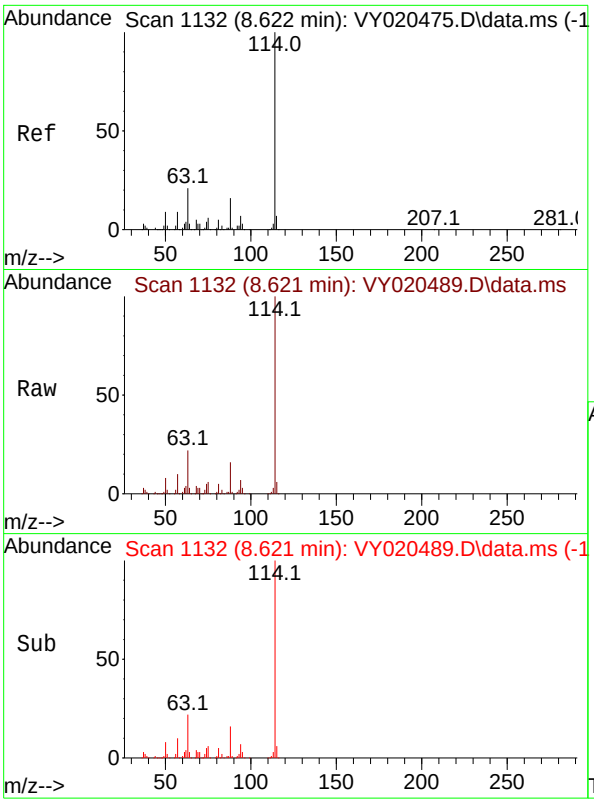


#33
1,2-Dichloroethane-d4
Concen: 55.579 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY020489.D
Acq: 02 Dec 2024 16:44

Tgt Ion: 65 Resp: 97815

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	105.8



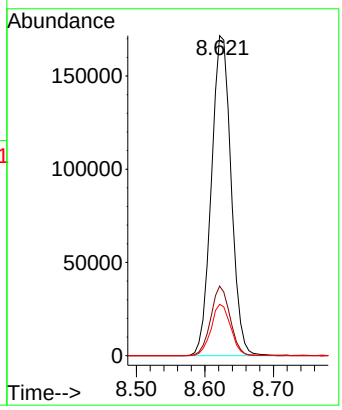


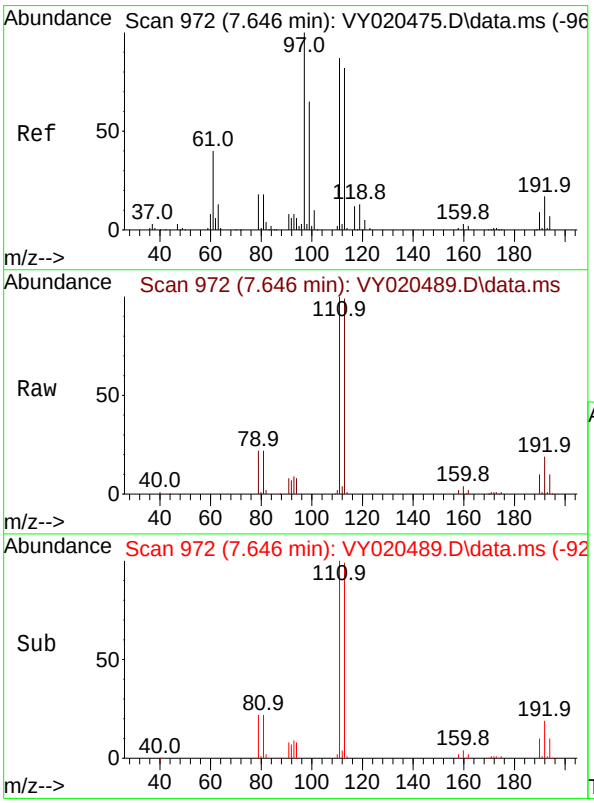
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020489.D
Acq: 02 Dec 2024 16:44

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Tgt Ion:114 Resp: 342399

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.8
88	16.1	0.0	32.0

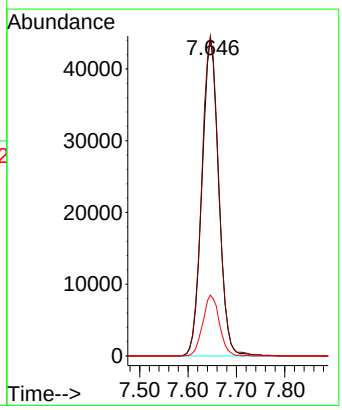


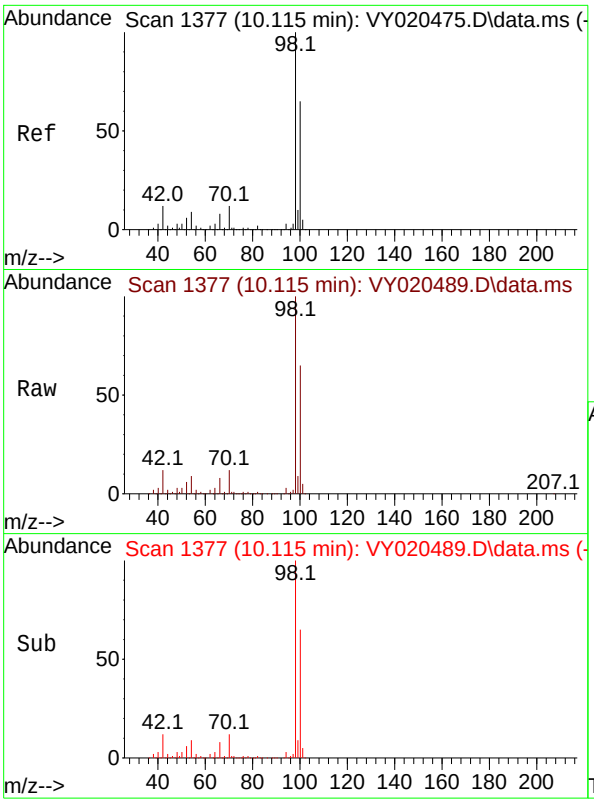


#35
Dibromofluoromethane
Concen: 49.133 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY020489.D
Acq: 02 Dec 2024 16:44

Tgt Ion:113 Resp: 105910

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.4	122.0
192	19.1	15.1	22.7



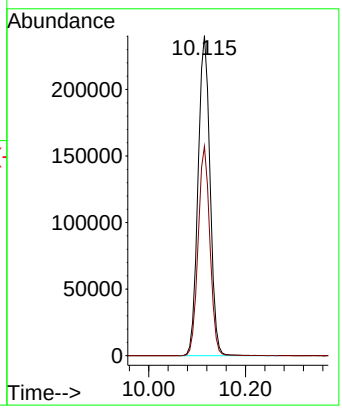


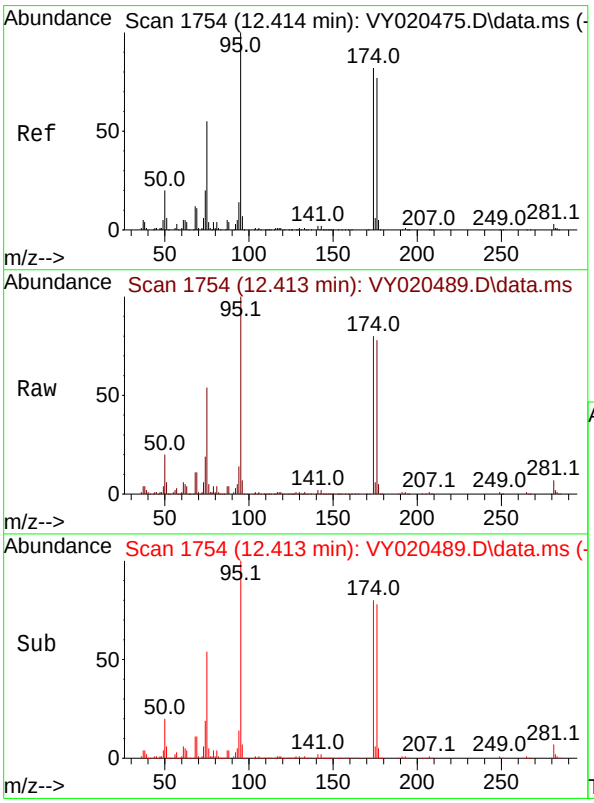
#50
Toluene-d8
Concen: 50.208 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020489.D
Acq: 02 Dec 2024 16:44

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Tgt Ion: 98 Resp: 412107

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.3	76.9

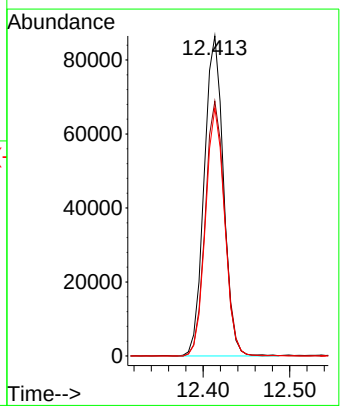


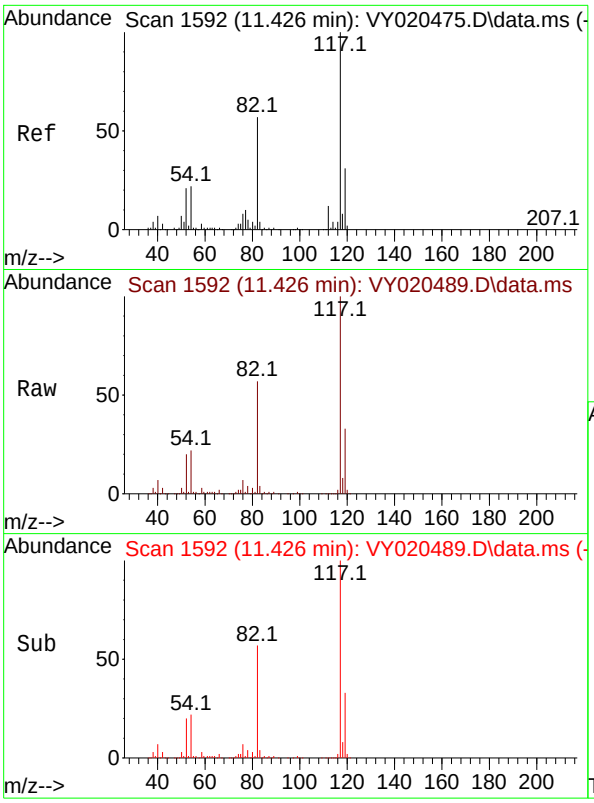


#62
4-Bromofluorobenzene
Concen: 46.634 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. 0.012 min
Lab File: VY020489.D
Acq: 02 Dec 2024 16:44

Tgt Ion: 95 Resp: 133872

Ion	Ratio	Lower	Upper
95	100		
174	80.0	0.0	156.8
176	76.6	0.0	152.0



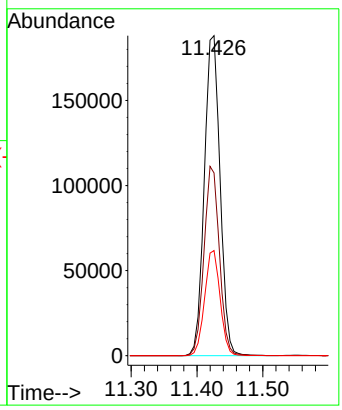


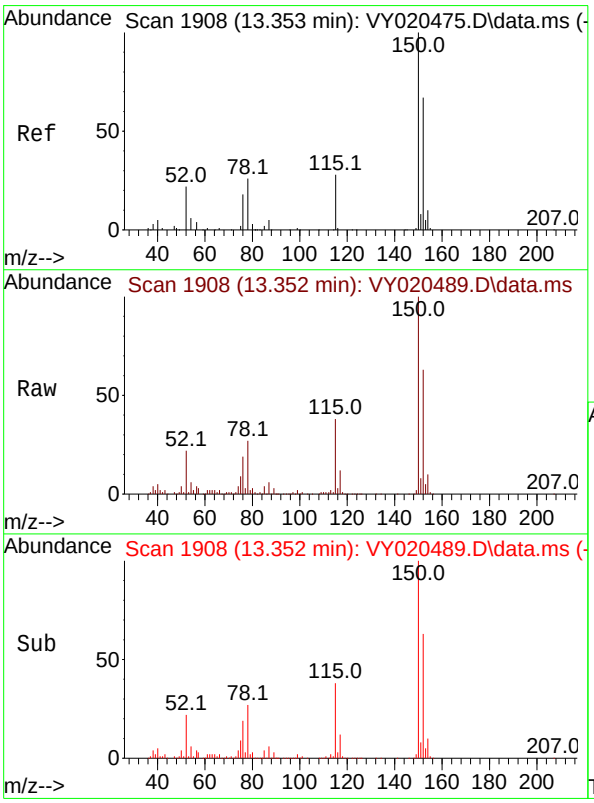
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY020489.D
Acq: 02 Dec 2024 16:44

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Tgt Ion:117 Resp: 313778

Ion	Ratio	Lower	Upper
117	100		
82	57.1	48.2	72.4
119	32.9	25.8	38.8

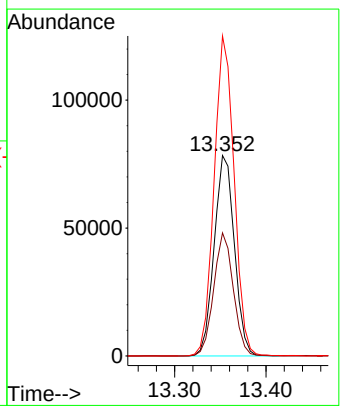




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020489.D
Acq: 02 Dec 2024 16:44

Tgt Ion:152 Resp: 120979

Ion	Ratio	Lower	Upper
152	100		
115	59.4	30.0	90.0
150	157.4	0.0	348.2



Sample Results: **VY020489.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

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\82Y120224S.M
Title : SW846 8260

Signal : TIC: VY020489.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.634	467	478	489	rBV	10654	33221	3.03%	0.363%
2	7.433	928	937	949	rBV2	28680	71529	6.52%	0.782%
3	7.646	962	972	978	rBV	150567	358869	32.71%	3.924%
4	7.719	978	984	996	rVB	235579	528846	48.20%	5.783%
5	8.073	1033	1042	1053	rBV	119093	263297	24.00%	2.879%
6	8.621	1123	1132	1146	rBV	411390	813321	74.13%	8.894%
7	10.115	1369	1377	1386	rBV	638789	1097179	100.00%	11.998%
8	11.420	1584	1591	1602	rBV	587595	998848	91.04%	10.923%
9	12.413	1746	1754	1766	rVB2	455703	733209	66.83%	8.018%
10	12.657	1787	1794	1798	rBV4	5741	11706	1.07%	0.128%
11	12.737	1798	1807	1812	rBV2	52609	96881	8.83%	1.059%
12	12.791	1812	1816	1821	rVB3	14810	24823	2.26%	0.271%
13	12.938	1834	1840	1841	rBV4	6311	12427	1.13%	0.136%
14	12.974	1841	1846	1853	rVB2	26105	46848	4.27%	0.512%
15	13.121	1862	1870	1873	rBV8	7088	18430	1.68%	0.202%
16	13.249	1883	1891	1895	rBV4	32616	84409	7.69%	0.923%
17	13.291	1895	1898	1901	rVV2	15783	22408	2.04%	0.245%
18	13.352	1901	1908	1916	rVB	507090	790265	72.03%	8.642%
19	13.432	1916	1921	1925	rBV4	19128	30920	2.82%	0.338%
20	13.633	1947	1954	1956	rBV6	10536	23444	2.14%	0.256%
21	13.682	1956	1962	1966	rVV2	199630	327569	29.86%	3.582%
22	13.724	1966	1969	1972	rVV2	36250	55959	5.10%	0.612%
23	13.779	1973	1978	1984	rVV5	30884	83338	7.60%	0.911%
24	13.852	1985	1990	1992	rVV4	32555	71632	6.53%	0.783%
25	13.895	1993	1997	2002	rVV	92261	168118	15.32%	1.838%
26	13.944	2002	2005	2010	rVB3	25677	35316	3.22%	0.386%
27	14.005	2011	2015	2020	rBV6	10560	18904	1.72%	0.207%
28	14.072	2021	2026	2031	rVV4	25605	52435	4.78%	0.573%
29	14.127	2031	2035	2038	rVV4	28274	47596	4.34%	0.520%
30	14.181	2038	2044	2051	rVV7	124267	281345	25.64%	3.077%
31	14.242	2051	2054	2061	rVV3	36065	72278	6.59%	0.790%
32	14.309	2062	2065	2068	rVV3	27556	44208	4.03%	0.483%
33	14.346	2068	2071	2076	rVV2	76581	117589	10.72%	1.286%
34	14.401	2076	2080	2087	rVB5	32635	59677	5.44%	0.653%
35	14.474	2088	2092	2094	rVV4	9983	15713	1.43%	0.172%
36	14.541	2098	2103	2109	rVV2	184551	274145	24.99%	2.998%

Sample Results: **VY020489.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

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\82Y120224S.M
Title : SW846 8260

37	14.608	2109	2114	2118	rVV3	55323	101215	9.23%	1.107%
38	14.657	2118	2122	2128	rVV2	128256	204272	18.62%	2.234%
39	14.730	2129	2134	2137	rVV4	26637	52371	4.77%	0.573%
40	14.773	2137	2141	2150	rVV2	55875	145140	13.23%	1.587%
41	14.864	2153	2156	2160	rVB4	26925	39566	3.61%	0.433%
42	14.913	2160	2164	2167	rBV4	11764	19690	1.79%	0.215%
43	14.962	2168	2172	2177	rVV5	27949	57964	5.28%	0.634%
44	15.017	2177	2181	2182	rVV4	24862	35145	3.20%	0.384%
45	15.059	2185	2188	2194	rVB3	54022	97179	8.86%	1.063%
46	15.133	2194	2200	2205	rBV	89568	143097	13.04%	1.565%
47	15.181	2205	2208	2216	rVB6	19400	45100	4.11%	0.493%
48	15.352	2232	2236	2243	rVV	123481	176043	16.05%	1.925%
49	15.419	2243	2247	2250	rVV6	11114	21191	1.93%	0.232%
50	15.462	2250	2254	2258	rVV3	21214	35714	3.26%	0.391%
51	15.523	2258	2264	2269	rVB3	35970	68870	6.28%	0.753%
52	15.937	2326	2332	2336	rBV4	19139	36453	3.32%	0.399%
53	16.059	2347	2352	2358	rVB4	21064	38684	3.53%	0.423%
54	16.260	2380	2385	2389	rBV	23646	40109	3.66%	0.439%

Sum of corrected areas: 9144505

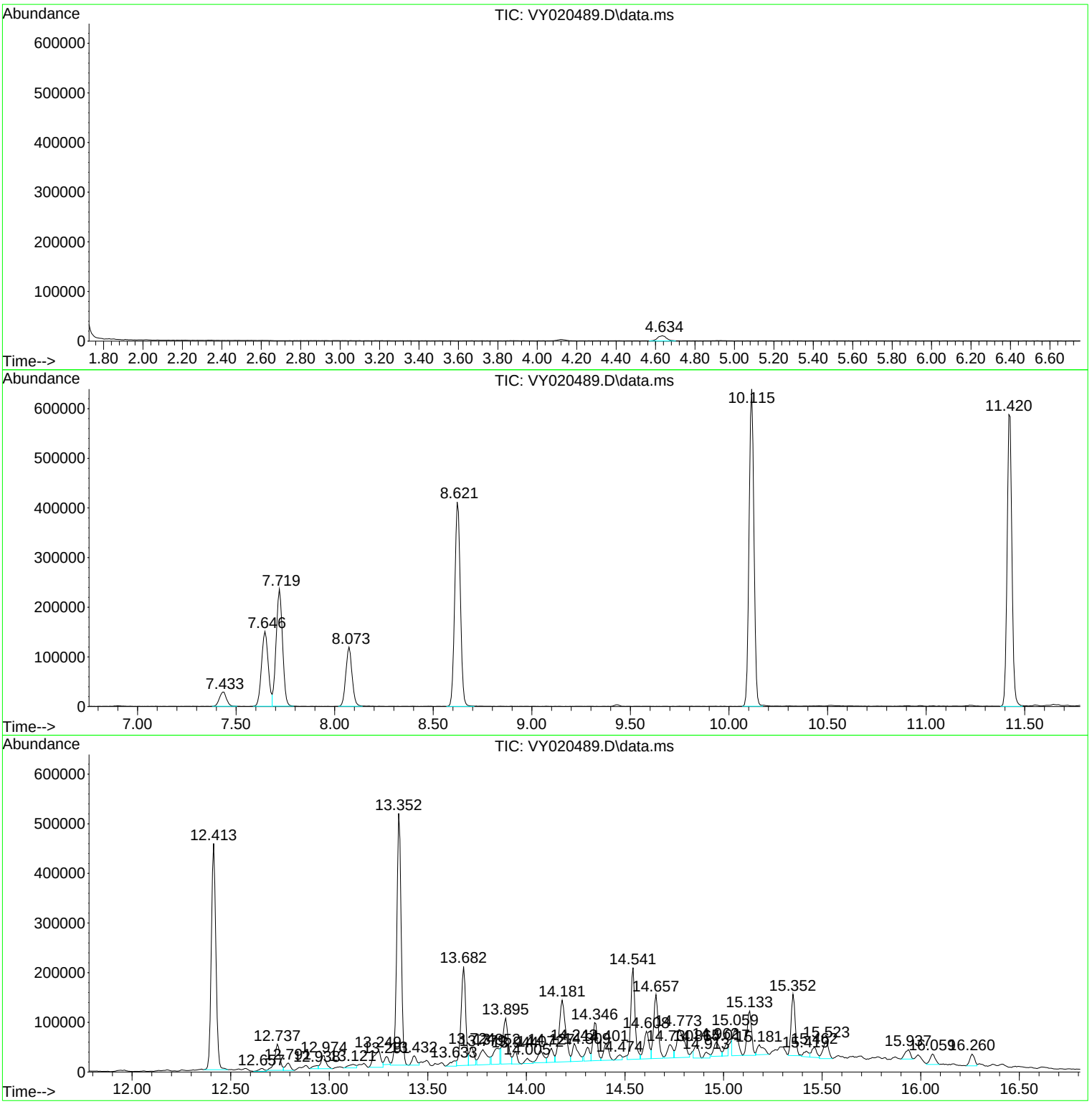
Sample Results: **VY020489.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

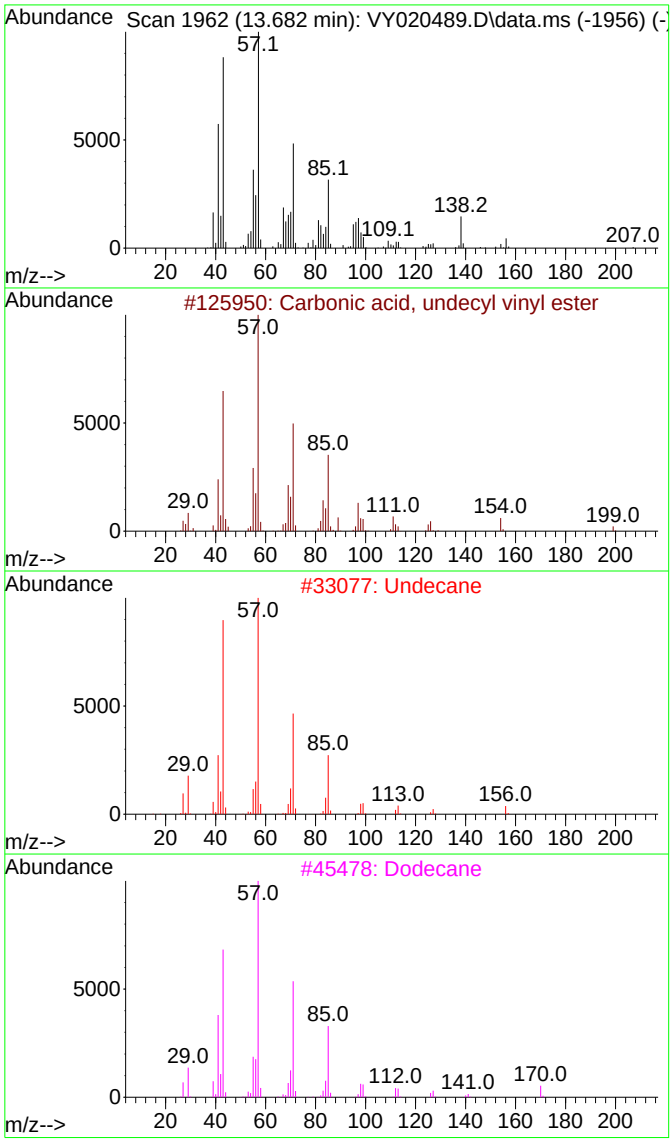
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

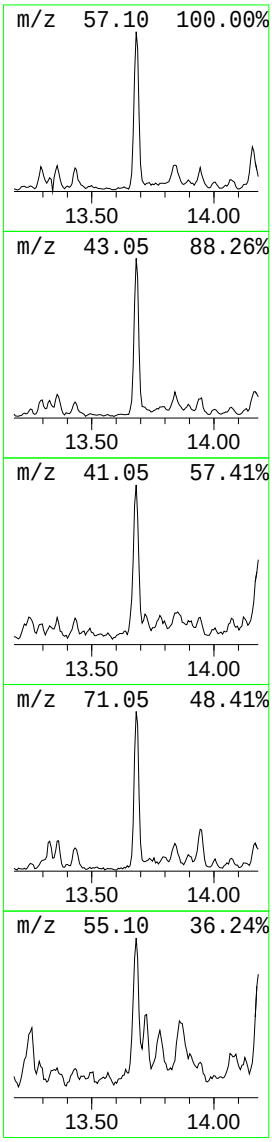
****

Peak Number 1 Carbonic acid, undecyl viny... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.682	20.73 ug/l	327569	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonic acid, undecyl vinyl ester	242	C14H26O3	1000382-54-9	72
2	Undecane	156	C11H24	001120-21-4	64
3	Dodecane	170	C12H26	000112-40-3	52
4	Tridecane	184	C13H28	000629-50-5	50
5	Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	50





Sample Results: **VY020489.D**

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Data File : VY020489.D
Acq On    : 02 Dec 2024  16:44
Operator  : SY/MD
Sample    : P5026-08
Misc      : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title  : SW846 8260

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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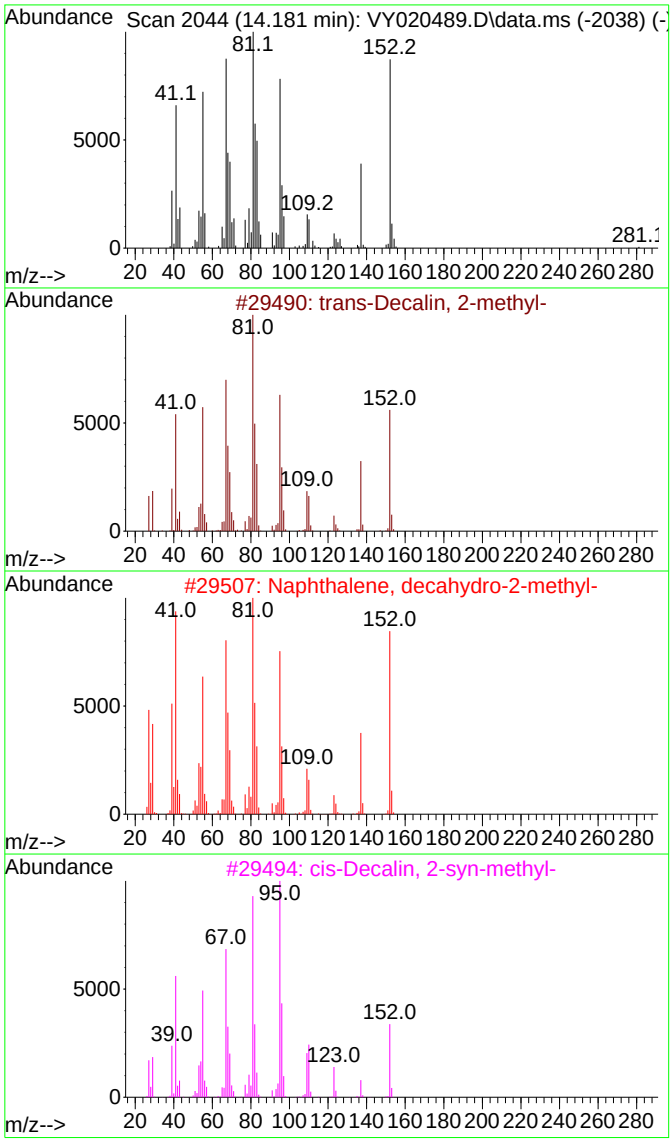
Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

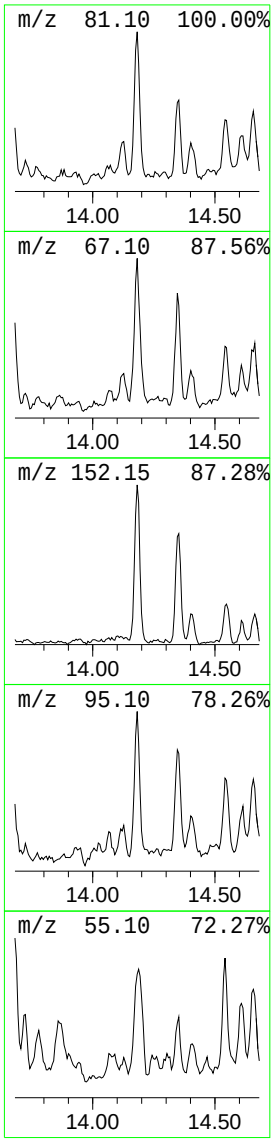
****

Peak Number 3 trans-Decalin, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.182	17.80 ug/l	281345	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	95
2	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	91
3	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	74
4	Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	70
5	Decalin, syn-1-methyl-, cis-	152	C11H20	1000158-89-1	64





Sample Results: **VY020489.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

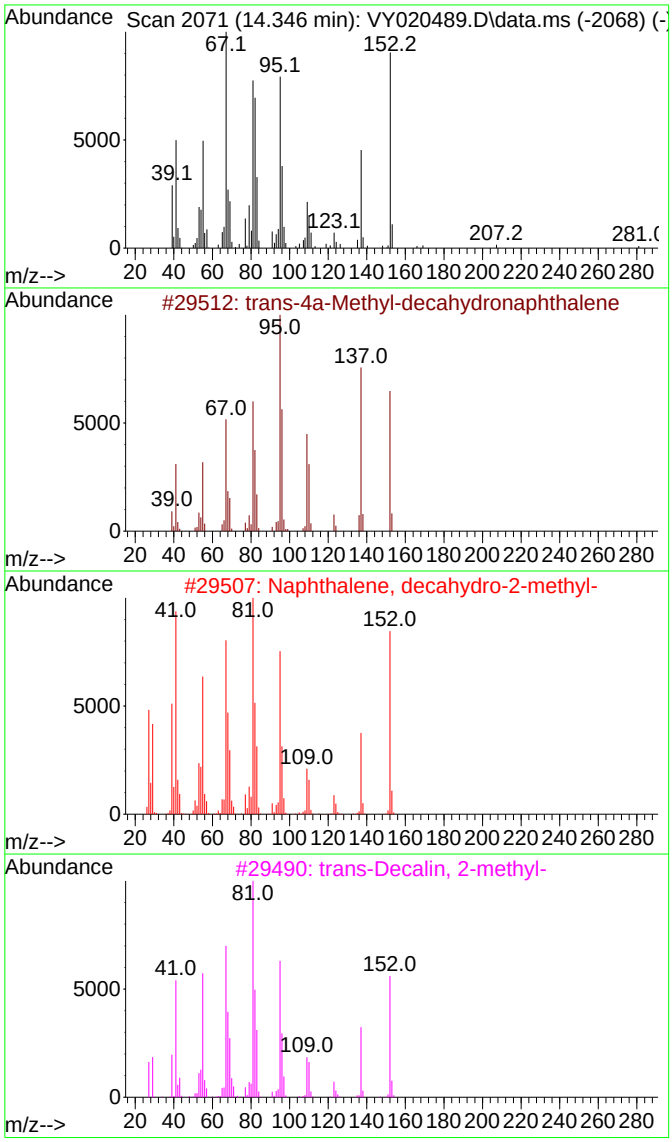
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

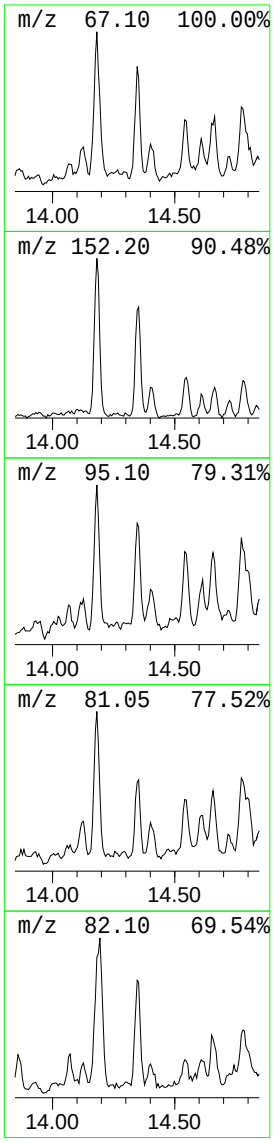
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 trans-4a-Methyl-decahydrona... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.346	7.44 ug/l	117589	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-4a-Methyl-decahydronaphtha...	152	C11H20	002547-27-5	81
2	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	81
3	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	72
4	1-Methyl-2-methylenecyclohexane	110	C8H14	002808-75-5	60
5	7-Heptadecyne, 1-chloro-	270	C17H31Cl	056554-74-6	58





Sample Results: **VY020489.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

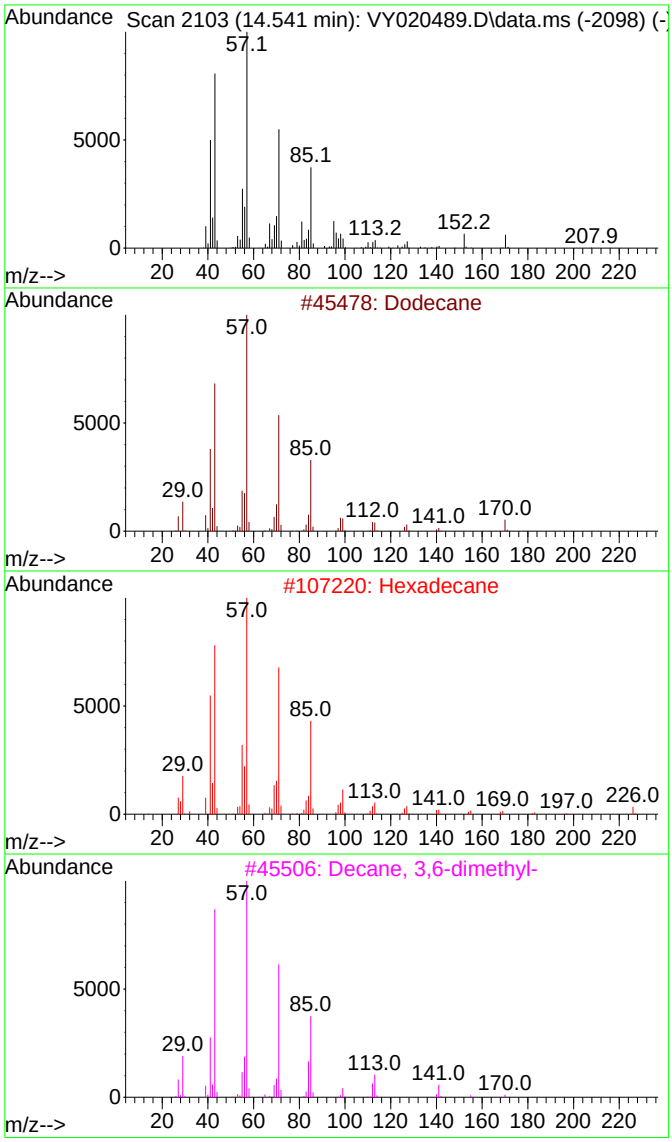
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

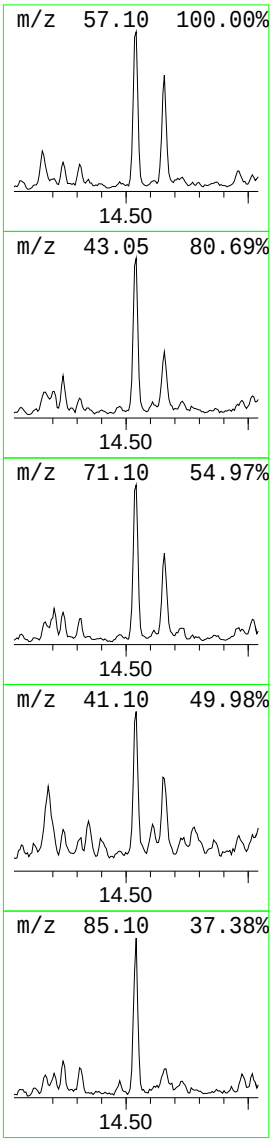
****

Peak Number 5 Dodecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.541	17.35 ug/l	274145	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	91
2	Hexadecane	226	C16H34	000544-76-3	74
3	Decane, 3,6-dimethyl-	170	C12H26	017312-53-7	64
4	Tetradecane	198	C14H30	000629-59-4	64
5	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	64





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Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

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

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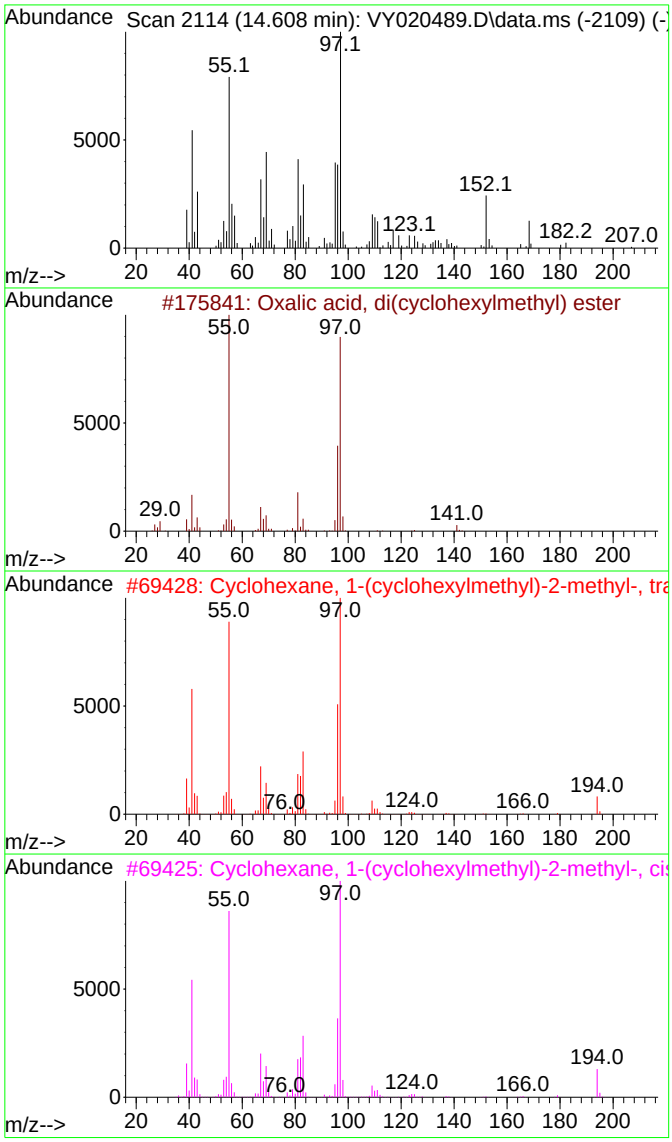
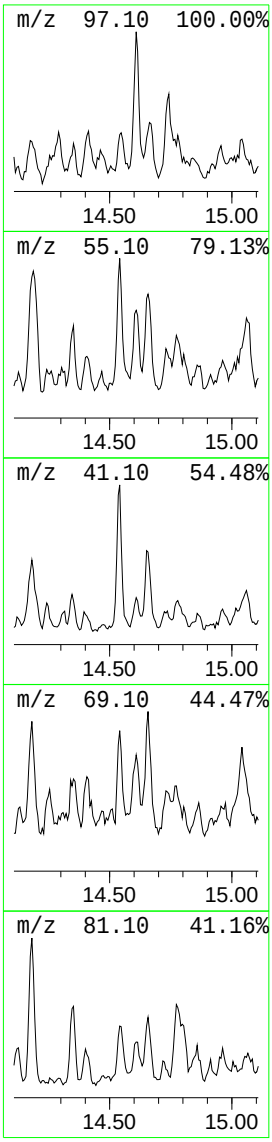
Peak Number 6 unknown14.608 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.608	6.40 ug/l	101215	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, di(cyclohexylmethyl...	282	C16H26O4	1000309-68-5	49
2	Cyclohexane, 1-(cyclohexylmethyl...	194	C14H26	054823-94-8	47
3	Cyclohexane, 1-(cyclohexylmethyl...	194	C14H26	054824-04-3	47
4	Cyclopropanemethanol, 2,2,3,3-te...	128	C8H16O	002415-96-5	47
5	Cyclohexane, 1-methyl-3-pentyl-	168	C12H24	054411-02-8	43





Sample Results: **VY020489.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

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

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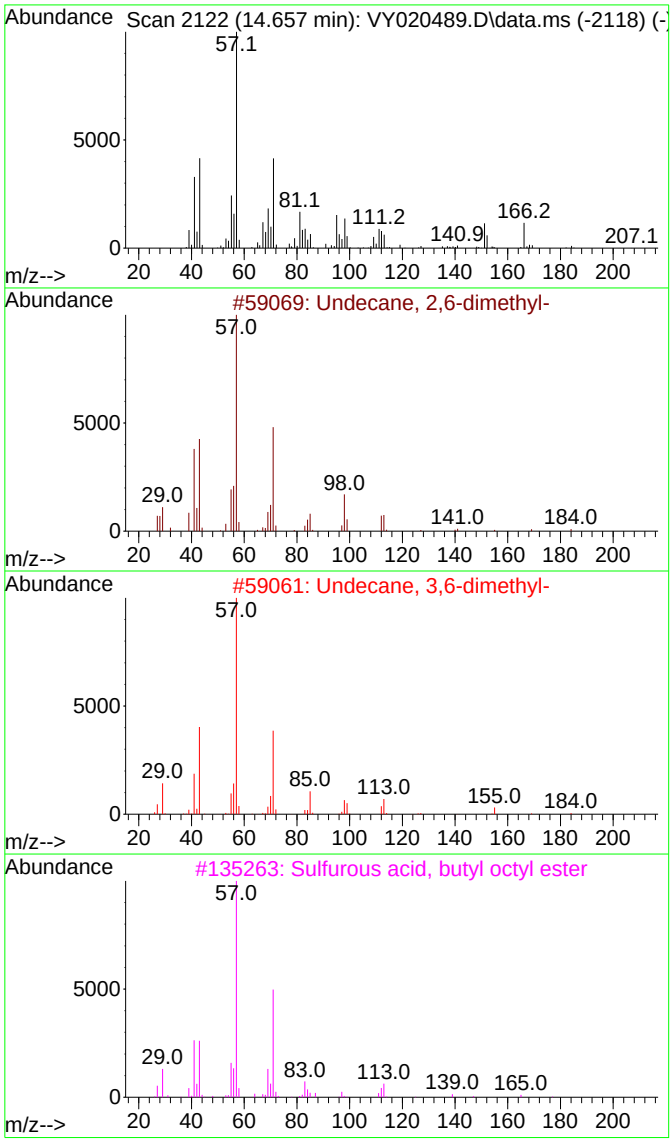
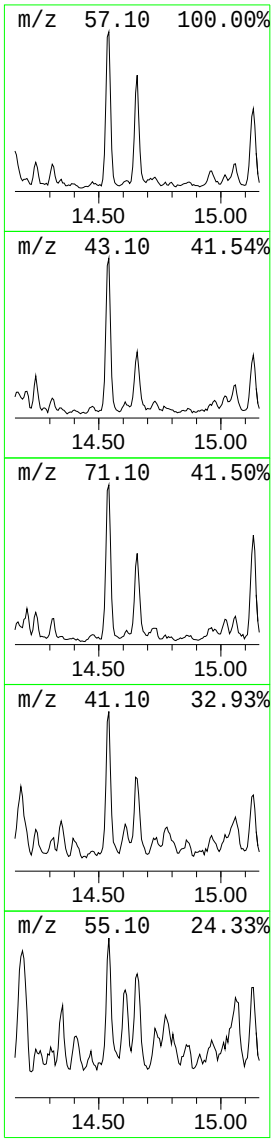
Peak Number 7 Undecane, 2,6-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.657	12.92 ug/l	204272	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	91
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	52
3	Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	47
4	Tridecane	184	C13H28	000629-50-5	47
5	Sulfurous acid, 2-ethylhexyl hep...	432	C25H52O3S	1000309-20-0	43





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Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

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

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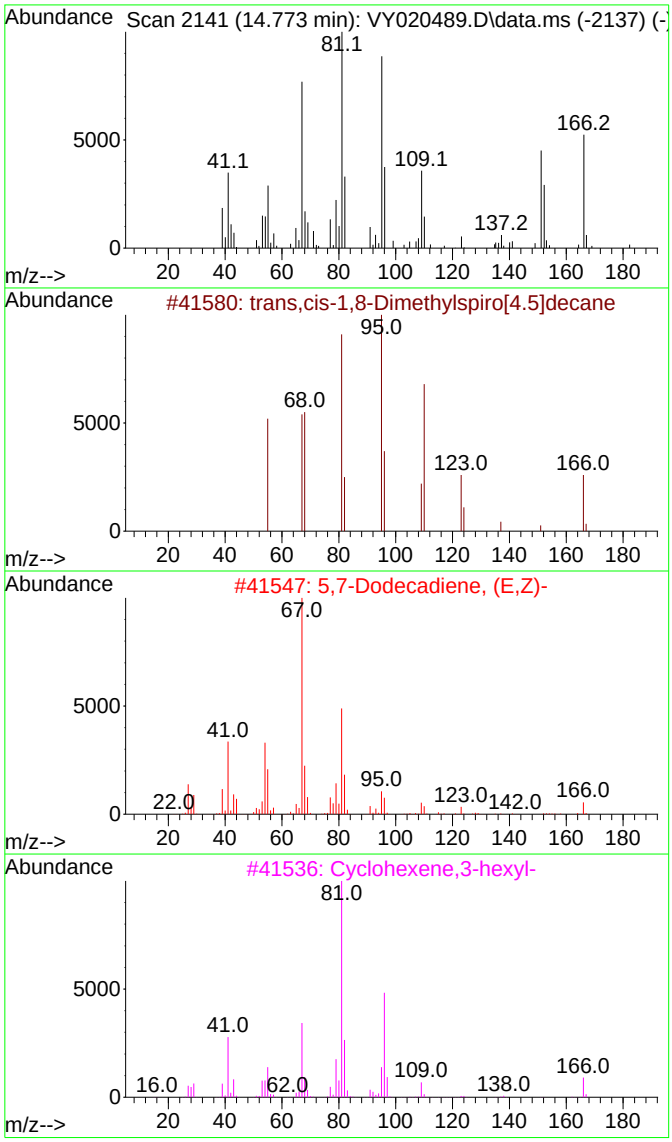
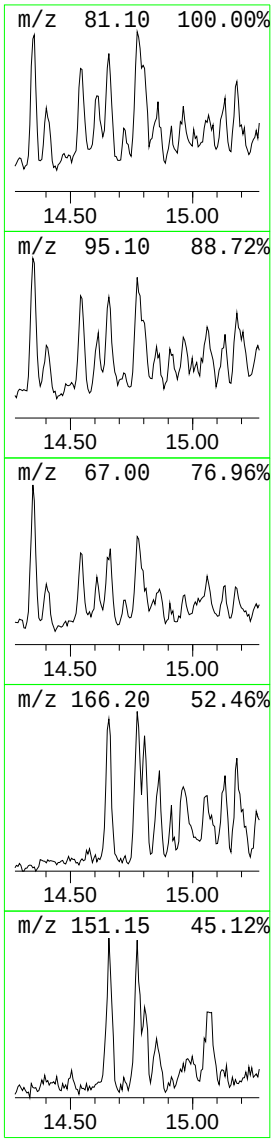
Peak Number 8 trans,cis-1,8-Dimethylspiro... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.773	9.18 ug/l	145140	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans,cis-1,8-Dimethylspiro[4.5]...	166	C12H22	1000111-72-9	80
2	5,7-Dodecadiene, (E,Z)-	166	C12H22	021293-04-9	64
3	Cyclohexene,3-hexyl-	166	C12H22	015232-78-7	60
4	Naphthalene, decahydro-1,5-dimet...	166	C12H22	066552-62-3	55
5	Pulegone	152	C10H16O	000089-82-7	55





Sample Results: **VY020489.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

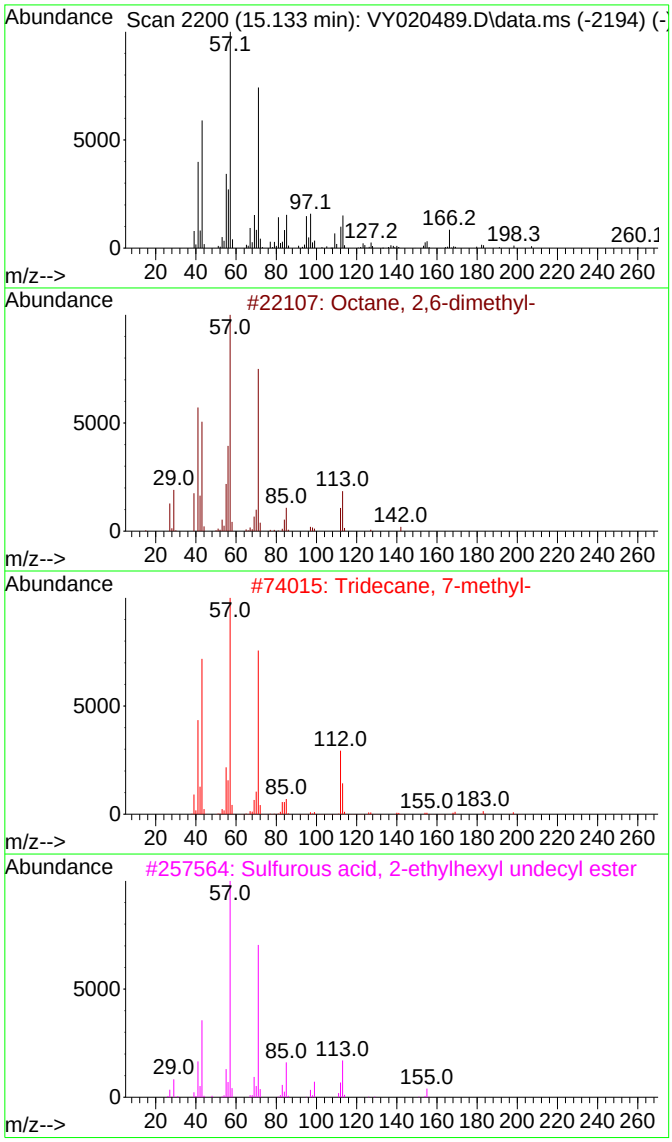
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

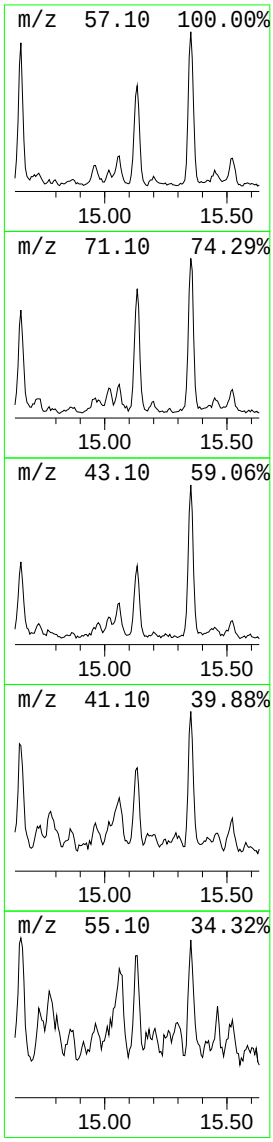
****

Peak Number 9 Octane, 2,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.133	9.05 ug/l	143097	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	80
2	Tridecane, 7-methyl-	198	C14H30	026730-14-3	62
3	Sulfurous acid, 2-ethylhexyl und...	348	C19H40O3S	1000309-19-4	59
4	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1010309-19-2	59
5	Tridecane, 3-methyl-	198	C14H30	006418-41-3	59





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Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

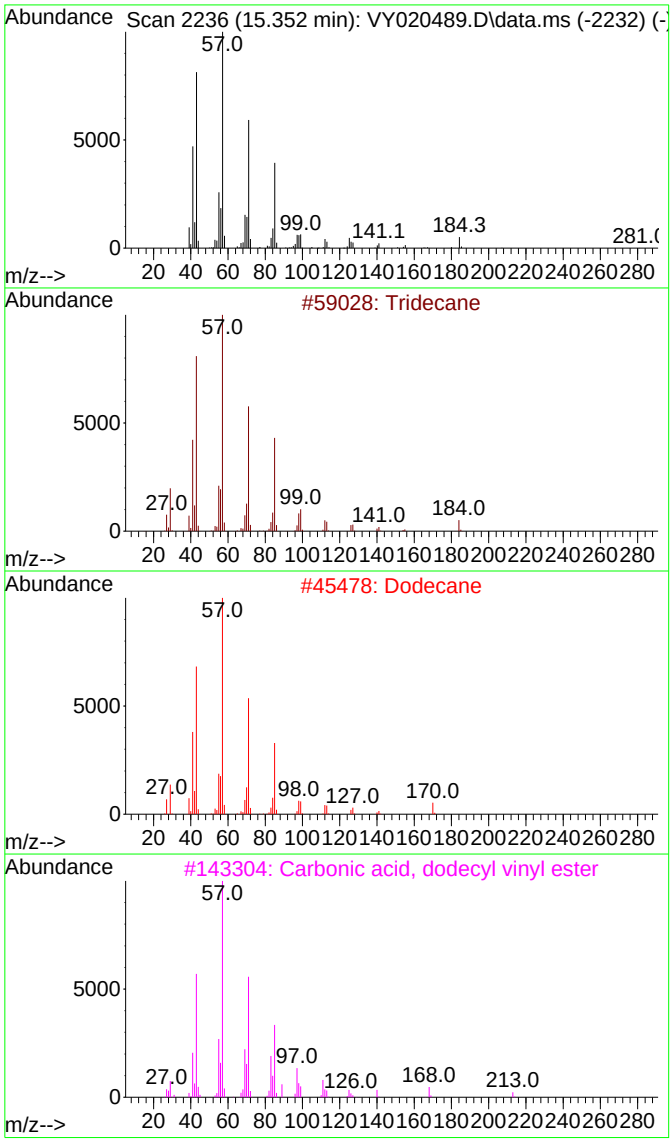
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

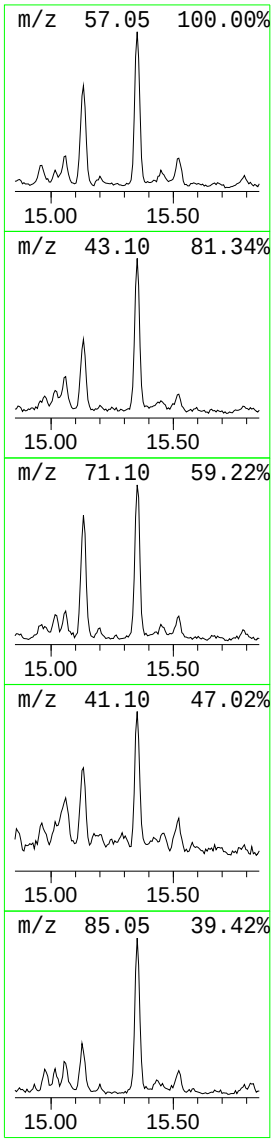
****

Peak Number 10 Tridecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.352	11.14 ug/l	176043	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	95
2	Dodecane	170	C12H26	000112-40-3	86
3	Carbonic acid, dodecyl vinyl ester	256	C15H28O3	1000382-54-8	86
4	Undecane, 2,3-dimethyl-	184	C13H28	017312-77-5	86
5	Hexadecane	226	C16H34	000544-76-3	83





Sample Results: **VY020489.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020489.D
Acq On : 02 Dec 2024 16:44
Operator : SY/MD
Sample : P5026-08
Misc : 7.29g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SOIL-1-HAM-GRAB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonic acid, ...	13.682	20.7	ug/l	327569	4	13.352	790265	50.0
trans-Decalin, ...	14.182	17.8	ug/l	281345	4	13.352	790265	50.0
trans-4a-Methyl...	14.346	7.4	ug/l	117589	4	13.352	790265	50.0
Dodecane	14.541	17.4	ug/l	274145	4	13.352	790265	50.0
unknown14.608	14.608	6.4	ug/l	101215	4	13.352	790265	50.0
Undecane, 2,6-d...	14.657	12.9	ug/l	204272	4	13.352	790265	50.0
trans,cis-1,8-D...	14.773	9.2	ug/l	145140	4	13.352	790265	50.0
Octane, 2,6-dim...	15.133	9.1	ug/l	143097	4	13.352	790265	50.0
Tridecane	15.352	11.1	ug/l	176043	4	13.352	790265	50.0

CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5026 SAS No.: P5026 SDG No.: P5026

Instrument ID: MSVOA_Y Calibration Date(s): 12/02/2024 12/02/2024

Heated Purge: (Y/N) Y Calibration Time(s): 09:16 11:09

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

LAB FILE ID: RRF005 = VY020472.D RRF010 = VY020473.D RRF020 = VY020474.D
RRF050 = VY020475.D RRF100 = VY020476.D RRF150 = VY020477.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.506	0.450	0.422	0.527	0.509	0.512	0.488	8.5
Chloromethane	0.534	0.456	0.433	0.525	0.497	0.518	0.494	8.2
Vinyl Chloride	0.526	0.476	0.443	0.540	0.511	0.526	0.503	7.4
Bromomethane	0.322	0.285	0.254	0.307	0.298	0.306	0.295	8
Chloroethane	0.325	0.298	0.285	0.317	0.308	0.318	0.309	4.8
Trichlorofluoromethane	1.019	0.919	0.858	0.971	0.929	0.962	0.943	5.8
1,1,2-Trichlorotrifluoroethane	0.615	0.548	0.530	0.551	0.516	0.537	0.549	6.3
1,1-Dichloroethene	0.560	0.505	0.472	0.534	0.511	0.532	0.519	5.8
Acetone	0.134	0.111	0.099	0.146	0.126	0.142	0.126	14.4
Carbon Disulfide	1.446	1.331	1.244	1.660	1.588	1.645	1.486	11.7
Methyl tert-butyl Ether	1.468	1.275	1.213	1.358	1.273	1.366	1.326	6.8
Methyl Acetate	0.302	0.270	0.235	0.279	0.248	0.279	0.269	9
Methylene Chloride	0.588	0.536	0.499	0.537	0.524	0.544	0.538	5.4
trans-1,2-Dichloroethene	0.648	0.565	0.528	0.580	0.564	0.573	0.576	6.8
1,1-Dichloroethane	1.215	1.144	1.053	1.092	1.058	1.089	1.108	5.5
Cyclohexane	1.172	1.028	0.912	0.999	0.949	0.951	1.002	9.3
2-Butanone	0.171	0.149	0.137	0.179	0.151	0.171	0.160	10.2
Carbon Tetrachloride	0.670	0.639	0.600	0.649	0.619	0.629	0.634	3.8
cis-1,2-Dichloroethene	0.723	0.677	0.644	0.675	0.648	0.672	0.673	4.2
Bromochloromethane	0.447	0.385	0.364	0.445	0.419	0.423	0.414	8.1
Chloroform	1.268	1.164	1.086	1.111	1.085	1.111	1.137	6.2
1,1,1-Trichloroethane	1.217	1.120	1.030	1.084	1.055	1.066	1.095	6.1
Methylcyclohexane	0.669	0.643	0.602	0.693	0.676	0.674	0.660	4.9
Benzene	1.687	1.588	1.474	1.586	1.531	1.538	1.567	4.6
1,2-Dichloroethane	0.436	0.414	0.381	0.428	0.397	0.415	0.412	4.9
Trichloroethene	0.409	0.387	0.373	0.388	0.379	0.381	0.386	3.2
1,2-Dichloropropane	0.414	0.371	0.354	0.360	0.348	0.353	0.367	6.7
Bromodichloromethane	0.588	0.539	0.507	0.531	0.515	0.531	0.535	5.3
4-Methyl-2-Pentanone	0.222	0.206	0.190	0.225	0.199	0.218	0.210	6.7
Toluene	1.027	0.984	0.924	0.995	0.963	0.974	0.978	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.

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5026 SAS No.: P5026 SDG No.: P5026

Instrument ID: MSVOA_Y Calibration Date(s): 12/02/2024 12/02/2024

Heated Purge: (Y/N) Y Calibration Time(s): 09:16 11:09

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

LAB FILE ID: RRF005 = VY020472.D RRF010 = VY020473.D RRF020 = VY020474.D
RRF050 = VY020475.D RRF100 = VY020476.D RRF150 = VY020477.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.503	0.463	0.445	0.496	0.477	0.497	0.480	4.7
cis-1,3-Dichloropropene	0.595	0.556	0.534	0.581	0.563	0.577	0.568	3.8
1,1,2-Trichloroethane	0.258	0.252	0.227	0.247	0.231	0.238	0.242	4.9
2-Hexanone	0.154	0.140	0.131	0.172	0.149	0.163	0.152	9.9
Dibromochloromethane	0.371	0.336	0.311	0.346	0.323	0.337	0.337	6
1,2-Dibromoethane	0.245	0.215	0.207	0.227	0.213	0.223	0.222	6.1
Tetrachloroethene	0.456	0.434	0.400	0.420	0.408	0.417	0.422	4.8
Chlorobenzene	1.336	1.297	1.200	1.233	1.213	1.240	1.253	4.2
Ethyl Benzene	2.481	2.386	2.268	2.344	2.291	2.325	2.349	3.2
m/p-Xylenes	0.909	0.881	0.837	0.848	0.839	0.847	0.860	3.3
o-Xylene	0.841	0.834	0.779	0.805	0.780	0.796	0.806	3.3
Styrene	1.403	1.379	1.293	1.347	1.311	1.334	1.344	3.1
Bromoform	0.248	0.224	0.211	0.230	0.213	0.230	0.226	5.9
Isopropylbenzene	5.309	4.936	4.771	4.571	4.664	4.775	4.838	5.4
1,1,2,2-Tetrachloroethane	0.794	0.697	0.662	0.685	0.644	0.692	0.696	7.5
1,3-Dichlorobenzene	2.129	1.990	1.872	1.846	1.850	1.905	1.932	5.7
1,4-Dichlorobenzene	2.082	1.949	1.853	1.809	1.797	1.859	1.892	5.7
1,2-Dichlorobenzene	1.772	1.698	1.595	1.579	1.548	1.639	1.639	5.1
1,2-Dibromo-3-Chloropropane	0.112	0.106	0.096	0.108	0.099	0.111	0.105	6.4
1,2,4-Trichlorobenzene	0.919	0.890	0.825	0.921	0.965	1.007	0.921	6.8
1,2,3-Trichlorobenzene	0.715	0.722	0.666	0.759	0.782	0.818	0.743	7.3
1,2-Dichloroethane-d4	0.582	0.471	0.439	0.557	0.491	0.511	0.509	10.5
Dibromofluoromethane	0.352	0.296	0.275	0.346	0.308	0.311	0.315	9.4
Toluene-d8	1.315	1.127	1.059	1.320	1.183	1.188	1.199	8.6
4-Bromofluorobenzene	0.504	0.389	0.364	0.451	0.403	0.405	0.419	12

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

Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y120224S.M
Title : SW846 8260
Last Update : Tue Dec 03 01:39:23 2024
Response Via : Initial Calibration

Calibration Files
5 =VY020472.D 10 =VY020473.D 20 =VY020474.D 50 =VY020475.D 100 =VY020476.D 150 =VY020477.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.506	0.450	0.422	0.527	0.509	0.512	0.488	8.54
3)	P	Chloromethane	0.534	0.456	0.433	0.525	0.497	0.518	0.494	8.24
4)	C	Vinyl Chloride	0.526	0.476	0.443	0.540	0.511	0.526	0.503	7.36#
5)	T	Bromomethane	0.322	0.285	0.254	0.307	0.298	0.306	0.295	7.96
6)	T	Chloroethane	0.325	0.298	0.285	0.317	0.308	0.318	0.309	4.82
7)	T	Trichlorofluor...	1.019	0.919	0.858	0.971	0.929	0.962	0.943	5.77
8)	T	Diethyl Ether	0.304	0.254	0.249	0.267	0.254	0.276	0.267	7.77
9)	T	1,1,2-Trichlor...	0.615	0.548	0.530	0.551	0.516	0.537	0.549	6.26
10)	T	Methyl Iodide	0.599	0.582	0.560	0.664	0.643	0.654	0.617	6.86
11)	T	Tert butyl alc...	0.040	0.034	0.030	0.033	0.027	0.033	0.033	12.77
12)	CM	1,1-Dichloroet...	0.560	0.505	0.472	0.534	0.511	0.532	0.519	5.84#
13)	T	Acrolein	0.040	0.031	0.031	0.028	0.027	0.029	0.031	15.77
14)	T	Allyl chloride	1.014	0.900	0.860	0.943	0.901	0.936	0.926	5.65
15)	T	Acrylonitrile	0.123	0.107	0.103	0.116	0.104	0.115	0.111	7.15
16)	T	Acetone	0.134	0.111	0.099	0.146	0.126	0.142	0.126	14.45
17)	T	Carbon Disulfide	1.446	1.331	1.244	1.660	1.588	1.645	1.486	11.66
18)	T	Methyl Acetate	0.302	0.270	0.235	0.279	0.248	0.279	0.269	9.01
19)	T	Methyl tert-bu...	1.468	1.275	1.213	1.358	1.273	1.366	1.326	6.81
20)	T	Methylene Chlo...	0.588	0.536	0.499	0.537	0.524	0.544	0.538	5.39
21)	T	trans-1,2-Dich...	0.648	0.565	0.528	0.580	0.564	0.573	0.576	6.83
22)	T	Diisopropyl ether	2.031	1.855	1.750	1.858	1.742	1.809	1.841	5.74
23)	T	Vinyl Acetate	1.023	0.942	0.894	1.027	0.946	1.009	0.974	5.55
24)	P	1,1-Dichloroet...	1.215	1.144	1.053	1.092	1.058	1.089	1.108	5.54
25)	T	2-Butanone	0.171	0.149	0.137	0.179	0.151	0.171	0.160	10.23
26)	T	2,2-Dichloropr...	1.165	1.075	0.995	1.033	0.996	1.025	1.048	6.15
27)	T	cis-1,2-Dichlo...	0.723	0.677	0.644	0.675	0.648	0.672	0.673	4.20
28)	T	Bromochloromet...	0.447	0.385	0.364	0.445	0.419	0.423	0.414	8.06
29)	T	Tetrahydrofuran	0.102	0.089	0.081	0.098	0.083	0.094	0.091	9.33
30)	C	Chloroform	1.268	1.164	1.086	1.111	1.085	1.111	1.137	6.15#
31)	T	Cyclohexane	1.172	1.028	0.912	0.999	0.949	0.951	1.002	9.28
32)	T	1,1,1-Trichlor...	1.217	1.120	1.030	1.084	1.055	1.066	1.095	6.09
33)	S	1,2-Dichloroet...	0.582	0.471	0.439	0.557	0.491	0.511	0.509	10.49
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.352	0.296	0.275	0.346	0.308	0.311	0.315	9.38
36)	T	1,1-Dichloropr...	0.563	0.539	0.501	0.550	0.516	0.521	0.532	4.36
37)	T	Ethyl Acetate	0.247	0.199	0.191	0.219	0.194	0.214	0.211	9.94
38)	T	Carbon Tetrach...	0.670	0.639	0.600	0.649	0.619	0.629	0.634	3.84
39)	T	Methylcyclohexane	0.669	0.643	0.602	0.693	0.676	0.674	0.660	4.95
40)	TM	Benzene	1.687	1.588	1.474	1.586	1.531	1.538	1.567	4.60
41)	T	Methacrylonitrile	0.132	0.116	0.097	0.134	0.105	0.133	0.120	13.38
42)	TM	1,2-Dichloroet...	0.436	0.414	0.381	0.428	0.397	0.415	0.412	4.89
43)	T	Isopropyl Acetate	0.443	0.413	0.391	0.451	0.406	0.448	0.425	5.96
44)	TM	Trichloroethene	0.409	0.387	0.373	0.388	0.379	0.381	0.386	3.24
45)	C	1,2-Dichloropr...	0.414	0.371	0.354	0.360	0.348	0.353	0.367	6.68#
46)	T	Dibromomethane	0.194	0.180	0.170	0.184	0.178	0.184	0.182	4.44
47)	T	Bromodichlorom...	0.588	0.539	0.507	0.531	0.515	0.531	0.535	5.33
48)	T	Methyl methacr...	0.195	0.191	0.179	0.211	0.199	0.215	0.198	6.77
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	12.73
50)	S	Toluene-d8	1.315	1.127	1.059	1.320	1.183	1.188	1.199	8.61
51)	T	4-Methyl-2-Pen...	0.222	0.206	0.190	0.225	0.199	0.218	0.210	6.68
52)	CM	Toluene	1.027	0.984	0.924	0.995	0.963	0.974	0.978	3.51#
53)	T	t-1,3-Dichloro...	0.503	0.463	0.445	0.496	0.477	0.497	0.480	4.75
54)	T	cis-1,3-Dichlo...	0.595	0.556	0.534	0.581	0.563	0.577	0.568	3.78
55)	T	1,1,2-Trichlor...	0.258	0.252	0.227	0.247	0.231	0.238	0.242	4.94
56)	T	Ethyl methacry...	0.336	0.331	0.302	0.370	0.345	0.372	0.343	7.57

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y120224S.M

57)	T	1,3-Dichloropr...	0.479	0.436	0.399	0.443	0.417	0.429	0.434	6.21
58)	T	2-Chloroethyl ...	0.157	0.127	0.145	0.199	0.167	0.169	0.160	15.30
59)	T	2-Hexanone	0.154	0.140	0.131	0.172	0.149	0.163	0.152	9.90
60)	T	Dibromochlorom...	0.371	0.336	0.311	0.346	0.323	0.337	0.337	6.02
61)	T	1,2-Dibromoethane	0.245	0.215	0.207	0.227	0.213	0.223	0.222	6.14
62)	S	4-Bromofluorob...	0.504	0.389	0.364	0.451	0.403	0.405	0.419	11.98
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.456	0.434	0.400	0.420	0.408	0.417	0.422	4.77
65)	PM	Chlorobenzene	1.336	1.297	1.200	1.233	1.213	1.240	1.253	4.20
66)	T	1,1,1,2-Tetrac...	0.491	0.448	0.433	0.434	0.425	0.436	0.444	5.40
67)	C	Ethyl Benzene	2.481	2.386	2.268	2.344	2.291	2.325	2.349	3.25#
68)	T	m/p-Xylenes	0.909	0.881	0.837	0.848	0.839	0.847	0.860	3.35
69)	T	o-Xylene	0.841	0.834	0.779	0.805	0.780	0.796	0.806	3.27
70)	T	Styrene	1.403	1.379	1.293	1.347	1.311	1.334	1.344	3.08
71)	P	Bromoform	0.248	0.224	0.211	0.230	0.213	0.230	0.226	5.93
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	5.309	4.936	4.771	4.571	4.664	4.775	4.838	5.40
74)	T	N-amyl acetate	0.965	0.902	0.860	0.994	0.934	1.034	0.948	6.67
75)	P	1,1,2,2-Tetrac...	0.794	0.697	0.662	0.685	0.644	0.692	0.696	7.52
76)	T	1,2,3-Trichlor...	0.585	0.544	0.495	0.421	0.477	0.535	0.509	11.27
77)	T	Bromobenzene	1.097	1.021	0.974	0.961	0.959	0.999	1.002	5.23
78)	T	n-propylbenzene	6.232	5.859	5.695	5.472	5.524	5.585	5.728	4.94
79)	T	2-Chlorotoluene	3.535	3.342	3.227	3.052	3.086	3.149	3.232	5.61
80)	T	1,3,5-Trimethy...	4.182	3.937	3.885	3.708	3.720	3.829	3.877	4.50
81)	T	trans-1,4-Dich...	0.267	0.239	0.235	0.252	0.236	0.262	0.248	5.62
82)	T	4-Chlorotoluene	3.614	3.421	3.256	3.136	3.140	3.223	3.298	5.65
83)	T	tert-Butylbenzene	3.827	3.546	3.522	3.310	3.401	3.425	3.505	5.12
84)	T	1,2,4-Trimethy...	4.024	3.913	3.747	3.607	3.619	3.699	3.768	4.44
85)	T	sec-Butylbenzene	5.416	5.231	5.005	4.757	4.834	4.897	5.023	5.04
86)	T	p-Isopropyltol...	4.415	4.238	4.125	3.977	4.044	4.107	4.151	3.75
87)	T	1,3-Dichlorobe...	2.129	1.990	1.872	1.846	1.850	1.905	1.932	5.69
88)	T	1,4-Dichlorobe...	2.082	1.949	1.853	1.809	1.797	1.859	1.891	5.68
89)	T	n-Butylbenzene	4.005	3.941	3.791	3.700	3.816	3.846	3.850	2.83
90)	T	Hexachloroethane	0.884	0.825	0.784	0.759	0.791	0.810	0.809	5.35
91)	T	1,2-Dichlorobe...	1.772	1.698	1.595	1.579	1.548	1.639	1.639	5.09
92)	T	1,2-Dibromo-3-...	0.112	0.106	0.096	0.108	0.099	0.111	0.105	6.38
93)	T	1,2,4-Trichlor...	0.919	0.890	0.825	0.921	0.965	1.007	0.921	6.78
94)	T	Hexachlorobuta...	0.647	0.655	0.602	0.646	0.666	0.652	0.645	3.45
95)	T	Naphthalene	1.366	1.325	1.321	1.606	1.581	1.746	1.491	11.96
96)	T	1,2,3-Trichlor...	0.715	0.722	0.666	0.759	0.782	0.818	0.743	7.27

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020472.D
Acq On : 02 Dec 2024 09:16
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 :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:34:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.726	168	178825	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.628	114	284363	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.426	117	228277	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.359	152	102161	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.079	65	10399	5.718	ug/l	0.02
Spiked Amount 50.000	Range 50 - 163		Recovery = 11.440%#			
35) Dibromofluoromethane	7.652	113	10015	5.594	ug/l	0.02
Spiked Amount 50.000	Range 54 - 147		Recovery = 11.180%#			
50) Toluene-d8	10.122	98	37392	5.485	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 10.980%#			
62) 4-Bromofluorobenzene	12.420	95	14320	6.006	ug/l	0.02
Spiked Amount 50.000	Range 29 - 146		Recovery = 12.020%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.879	85	9051	5.189	ug/l	100
3) Chloromethane	2.086	50	9555	5.416	ug/l	96
4) Vinyl Chloride	2.221	62	9404	5.222	ug/l #	84
5) Bromomethane	2.617	94	5760	5.452	ug/l	94
6) Chloroethane	2.757	64	5816	5.270	ug/l	99
7) Trichlorofluoromethane	3.080	101	18222	5.403	ug/l	91
8) Diethyl Ether	3.470	74	5437	5.690	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.836	101	10995	5.595	ug/l	95
10) Methyl Iodide	4.025	142	10718	4.859	ug/l	96
11) Tert butyl alcohol	4.872	59	3578	30.328	ug/l #	73
12) 1,1-Dichloroethene	3.812	96	10023	5.399	ug/l	95
13) Acrolein	3.671	56	3593	32.528	ug/l	93
14) Allyl chloride	4.403	41	18125	5.474	ug/l	94
15) Acrylonitrile	5.092	53	11038	27.723	ug/l	99
16) Acetone	3.885	43	11973	26.477	ug/l	100
17) Carbon Disulfide	4.129	76	25853	4.866	ug/l	96
18) Methyl Acetate	4.415	43	5409	5.628	ug/l	99
19) Methyl tert-butyl Ether	5.141	73	26244	5.536	ug/l	95
20) Methylene Chloride	4.641	84	10506	5.461	ug/l	95
21) trans-1,2-Dichloroethene	5.141	96	11589	5.621	ug/l	95
22) Diisopropyl ether	6.043	45	36321	5.517	ug/l	95
23) Vinyl Acetate	5.988	43	91450	26.261	ug/l	100
24) 1,1-Dichloroethane	5.945	63	21720	5.480	ug/l	99
25) 2-Butanone	6.915	43	15248	26.703	ug/l	100
26) 2,2-Dichloropropane	6.903	77	20839	5.559	ug/l	99
27) cis-1,2-Dichloroethene	6.915	96	12929	5.370	ug/l	97
28) Bromochloromethane	7.268	49	8001	5.406	ug/l	93
29) Tetrahydrofuran	7.287	42	9160	28.119	ug/l	99
30) Chloroform	7.439	83	22668	5.572	ug/l	99
31) Cyclohexane	7.720	56	20962	5.850	ug/l #	66
32) 1,1,1-Trichloroethane	7.634	97	21761	5.555	ug/l	99
36) 1,1-Dichloropropene	7.854	75	16015	5.297	ug/l	99
37) Ethyl Acetate	7.000	43	7014	5.856	ug/l	99
38) Carbon Tetrachloride	7.835	117	19058	5.282	ug/l	95
39) Methylcyclohexane	9.122	83	19023	5.071	ug/l	96
40) Benzene	8.098	78	47972	5.382	ug/l	96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020472.D
Acq On : 02 Dec 2024 09:16
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 :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:34:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	3767	2.898	ug/l	#	85
42) 1,2-Dichloroethane	8.171	62	12405	5.297	ug/l		99
43) Isopropyl Acetate	8.213	43	12609	5.214	ug/l		94
44) Trichloroethene	8.878	130	11643	5.299	ug/l		97
45) 1,2-Dichloropropane	9.152	63	11776	5.646	ug/l		95
46) Dibromomethane	9.250	93	5515	5.340	ug/l		97
47) Bromodichloromethane	9.439	83	16718	5.495	ug/l		97
48) Methyl methacrylate	9.238	41	5558	4.928	ug/l		96
49) 1,4-Dioxane	9.244	88	1187	120.246	ug/l	#	90
51) 4-Methyl-2-Pentanone	10.012	43	31570	26.432	ug/l		96
52) Toluene	10.182	92	29207	5.252	ug/l		99
53) t-1,3-Dichloropropene	10.408	75	14311	5.239	ug/l		94
54) cis-1,3-Dichloropropene	9.865	75	16925	5.243	ug/l		100
55) 1,1,2-Trichloroethane	10.579	97	7326	5.318	ug/l		92
56) Ethyl methacrylate	10.451	69	9564	4.907	ug/l		97
57) 1,3-Dichloropropane	10.731	76	13618	5.520	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.725	63	22288	24.421	ug/l		94
59) 2-Hexanone	10.774	43	21952	25.477	ug/l		96
60) Dibromochloromethane	10.926	129	10538	5.494	ug/l		100
61) 1,2-Dibromoethane	11.024	107	6966	5.529	ug/l		96
64) Tetrachloroethene	10.658	164	10411	5.397	ug/l		86
65) Chlorobenzene	11.451	112	30503	5.331	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.530	131	11209	5.524	ug/l		98
67) Ethyl Benzene	11.530	91	56626	5.280	ug/l		99
68) m/p-Xylenes	11.640	106	41510	10.570	ug/l		97
69) o-Xylene	11.969	106	19192	5.216	ug/l		96
70) Styrene	11.981	104	32027	5.218	ug/l		99
71) Bromoform	12.146	173	5650	5.476	ug/l	#	97
73) Isopropylbenzene	12.268	105	54241	5.487	ug/l		99
74) N-amyl acetate	12.079	43	9861	5.090	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.517	83	8116	5.710	ug/l		97
76) 1,2,3-Trichloropropane	12.566	75	5973m	3.096	ug/l		
77) Bromobenzene	12.542	156	11207	5.475	ug/l		98
78) n-propylbenzene	12.609	91	63666	5.440	ug/l		99
79) 2-Chlorotoluene	12.694	91	36119	5.469	ug/l		99
80) 1,3,5-Trimethylbenzene	12.749	105	42721	5.393	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.310	75	2724	5.371	ug/l		99
82) 4-Chlorotoluene	12.792	91	36917	5.478	ug/l		98
83) tert-Butylbenzene	13.011	119	39095	5.459	ug/l		99
84) 1,2,4-Trimethylbenzene	13.054	105	41106	5.339	ug/l		100
85) sec-Butylbenzene	13.188	105	55327	5.391	ug/l		99
86) p-Isopropyltoluene	13.304	119	45103	5.318	ug/l		99
87) 1,3-Dichlorobenzene	13.298	146	21748	5.509	ug/l		99
88) 1,4-Dichlorobenzene	13.383	146	21267	5.503	ug/l		95
89) n-Butylbenzene	13.633	91	40916	5.201	ug/l		98
90) Hexachloroethane	13.895	117	9033	5.465	ug/l		98
91) 1,2-Dichlorobenzene	13.670	146	18099	5.406	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.285	75	1145	5.321	ug/l		93
93) 1,2,4-Trichlorobenzene	14.938	180	9390	4.988	ug/l		98
94) Hexachlorobutadiene	15.041	225	6613	5.021	ug/l		95
95) Naphthalene	15.157	128	13952	4.580	ug/l		98
96) 1,2,3-Trichlorobenzene	15.346	180	7300	4.806	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020472.D
Acq On : 02 Dec 2024 09:16
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 :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:34:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

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

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

ICAL Form

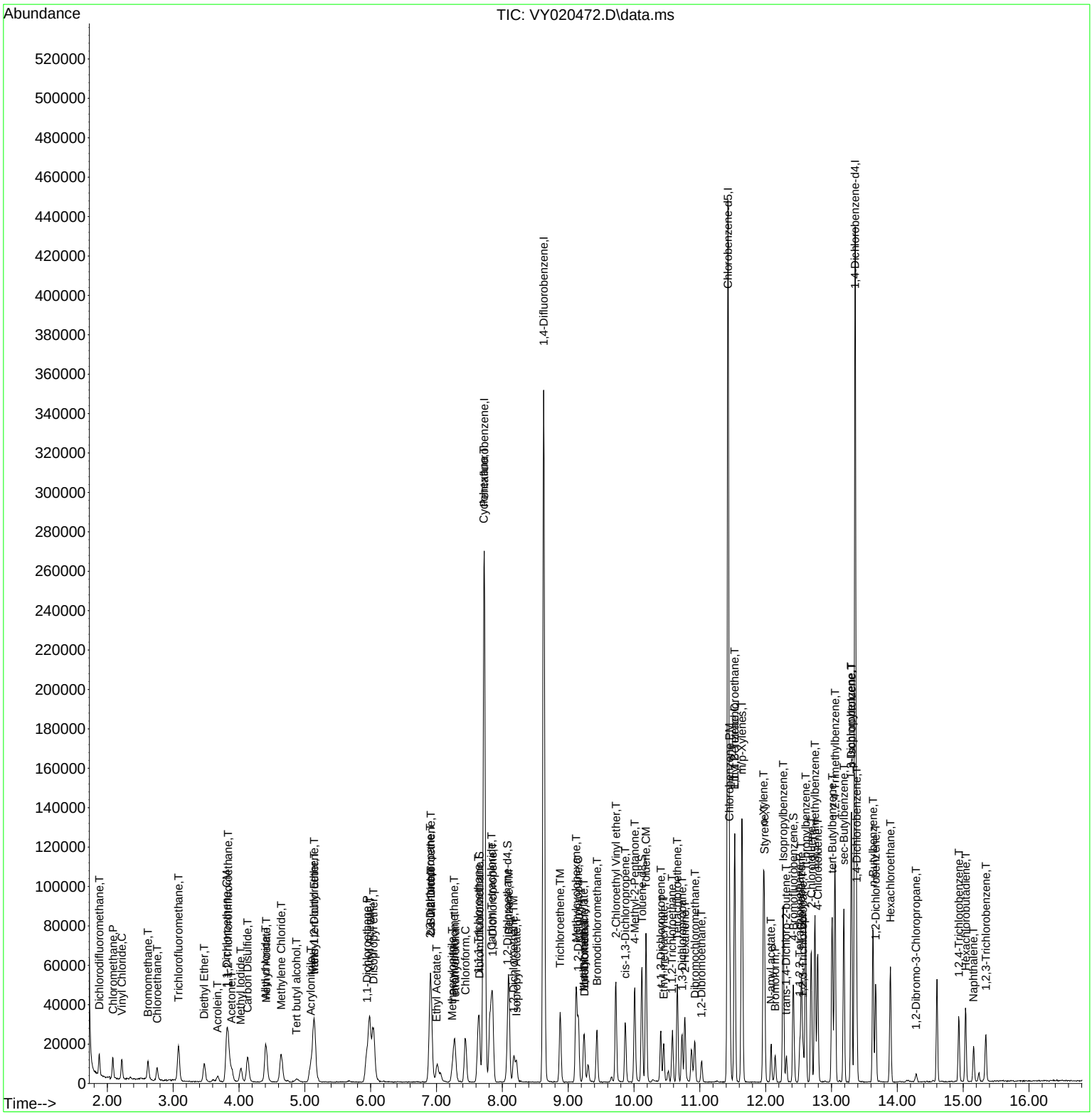
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020472.D
Acq On : 02 Dec 2024 09:16
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 02 14:34:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020473.D
Acq On : 02 Dec 2024 09:38
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:34:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.720	168	175495	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.622	114	274921	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.426	117	220557	50.000	ug/l		0.01
72) 1,4-Dichlorobenzene-d4	13.353	152	103569	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.079	65	16546	9.270	ug/l		0.02
Spiked Amount 50.000	Range 50 - 163		Recovery = 18.540%#				
35) Dibromofluoromethane	7.646	113	16277	9.405	ug/l		0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 18.800%#				
50) Toluene-d8	10.115	98	61981	9.405	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 18.800%#				
62) 4-Bromofluorobenzene	12.414	95	21386	9.278	ug/l		0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 18.560%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.873	85	15803	9.232	ug/l		98
3) Chloromethane	2.080	50	16000	9.241	ug/l		96
4) Vinyl Chloride	2.214	62	16709	9.455	ug/l		98
5) Bromomethane	2.611	94	10012	9.656	ug/l		92
6) Chloroethane	2.751	64	10445	9.643	ug/l	#	84
7) Trichlorofluoromethane	3.080	101	32266	9.749	ug/l		99
8) Diethyl Ether	3.470	74	8910	9.501	ug/l		95
9) 1,1,2-Trichlorotrifluo...	3.830	101	19224	9.968	ug/l		99
10) Methyl Iodide	4.019	142	20415	9.430	ug/l		96
11) Tert butyl alcohol	4.879	59	5946	51.356	ug/l	#	87
12) 1,1-Dichloroethene	3.812	96	17719	9.726	ug/l		88
13) Acrolein	3.671	56	5375	49.585	ug/l		98
14) Allyl chloride	4.403	41	31589	9.722	ug/l		97
15) Acrylonitrile	5.068	53	18826	48.181	ug/l		97
16) Acetone	3.879	43	19514	43.971	ug/l		96
17) Carbon Disulfide	4.123	76	46707	8.958	ug/l		99
18) Methyl Acetate	4.397	43	9477	10.047	ug/l		93
19) Methyl tert-butyl Ether	5.135	73	44761	9.621	ug/l		96
20) Methylene Chloride	4.635	84	18796	9.956	ug/l		95
21) trans-1,2-Dichloroethene	5.135	96	19845	9.807	ug/l		97
22) Diisopropyl ether	6.031	45	65118	10.078	ug/l		93
23) Vinyl Acetate	5.976	43	165315	48.374	ug/l		96
24) 1,1-Dichloroethane	5.933	63	40148	10.321	ug/l		97
25) 2-Butanone	6.915	43	26163	46.687	ug/l		99
26) 2,2-Dichloropropane	6.896	77	37721	10.253	ug/l		98
27) cis-1,2-Dichloroethene	6.909	96	23752	10.053	ug/l		97
28) Bromochloromethane	7.262	49	13505	9.297	ug/l		96
29) Tetrahydrofuran	7.274	42	15581	48.737	ug/l		98
30) Chloroform	7.433	83	40856	10.234	ug/l		99
31) Cyclohexane	7.713	56	36078	10.259	ug/l	#	93
32) 1,1,1-Trichloroethane	7.628	97	39303	10.224	ug/l		96
36) 1,1-Dichloropropene	7.848	75	29612	10.132	ug/l		99
37) Ethyl Acetate	7.000	43	10953	9.459	ug/l		98
38) Carbon Tetrachloride	7.829	117	35158	10.079	ug/l		98
39) Methylcyclohexane	9.122	83	35355	9.748	ug/l		96
40) Benzene	8.091	78	87302	10.131	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020473.D
Acq On : 02 Dec 2024 09:38
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 02 14:34:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	6395	5.088	ug/l	#	86
42) 1,2-Dichloroethane	8.165	62	22758	10.051	ug/l		100
43) Isopropyl Acetate	8.207	43	22689	9.704	ug/l	#	90
44) Trichloroethene	8.878	130	21280	10.017	ug/l		98
45) 1,2-Dichloropropane	9.152	63	20396	10.114	ug/l		93
46) Dibromomethane	9.238	93	9900	9.916	ug/l		97
47) Bromodichloromethane	9.433	83	29612	10.066	ug/l		99
48) Methyl methacrylate	9.231	41	10484	9.616	ug/l		97
49) 1,4-Dioxane	9.244	88	1834	192.170	ug/l	#	88
51) 4-Methyl-2-Pentanone	10.006	43	56581	49.000	ug/l		99
52) Toluene	10.176	92	54102	10.063	ug/l		100
53) t-1,3-Dichloropropene	10.402	75	25461	9.641	ug/l		95
54) cis-1,3-Dichloropropene	9.865	75	30591	9.801	ug/l		97
55) 1,1,2-Trichloroethane	10.579	97	13858	10.405	ug/l		95
56) Ethyl methacrylate	10.445	69	18219	9.668	ug/l		94
57) 1,3-Dichloropropane	10.725	76	23954	10.044	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.719	63	34858	39.506	ug/l		99
59) 2-Hexanone	10.768	43	38387	46.082	ug/l		98
60) Dibromochloromethane	10.920	129	18450	9.950	ug/l		96
61) 1,2-Dibromoethane	11.024	107	11838	9.719	ug/l		99
64) Tetrachloroethene	10.652	164	19146	10.273	ug/l		97
65) Chlorobenzene	11.451	112	57223	10.351	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.524	131	19772	10.085	ug/l		99
67) Ethyl Benzene	11.524	91	105232	10.155	ug/l		98
68) m/p-Xylenes	11.633	106	77711	20.480	ug/l		99
69) o-Xylene	11.963	106	36779	10.346	ug/l		100
70) Styrene	11.975	104	60843	10.259	ug/l		99
71) Bromoform	12.139	173	9871	9.902	ug/l	#	97
73) Isopropylbenzene	12.261	105	102233	10.202	ug/l		100
74) N-amyl acetate	12.078	43	18689	9.515	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.517	83	14431	10.014	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	11258m	5.756	ug/l		
77) Bromobenzene	12.536	156	21153	10.193	ug/l		97
78) n-propylbenzene	12.603	91	121367	10.229	ug/l		100
79) 2-Chlorotoluene	12.688	91	69228	10.341	ug/l		98
80) 1,3,5-Trimethylbenzene	12.743	105	81555	10.156	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.310	75	4941	9.609	ug/l		95
82) 4-Chlorotoluene	12.786	91	70869	10.373	ug/l		99
83) tert-Butylbenzene	13.005	119	73451	10.117	ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	81058	10.385	ug/l		98
85) sec-Butylbenzene	13.182	105	108352	10.414	ug/l		99
86) p-Isopropyltoluene	13.298	119	87775	10.208	ug/l		98
87) 1,3-Dichlorobenzene	13.292	146	41226	10.301	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	40373	10.304	ug/l		97
89) n-Butylbenzene	13.627	91	81633	10.237	ug/l		99
90) Hexachloroethane	13.889	117	17093	10.201	ug/l		92
91) 1,2-Dichlorobenzene	13.664	146	35166	10.361	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	2188	10.029	ug/l		93
93) 1,2,4-Trichlorobenzene	14.932	180	18443	9.664	ug/l		96
94) Hexachlorobutadiene	15.035	225	13567	10.162	ug/l		97
95) Naphthalene	15.151	128	27446	8.887	ug/l		99
96) 1,2,3-Trichlorobenzene	15.340	180	14957	9.713	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020473.D
Acq On : 02 Dec 2024 09:38
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:34:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

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

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

ICAL Form

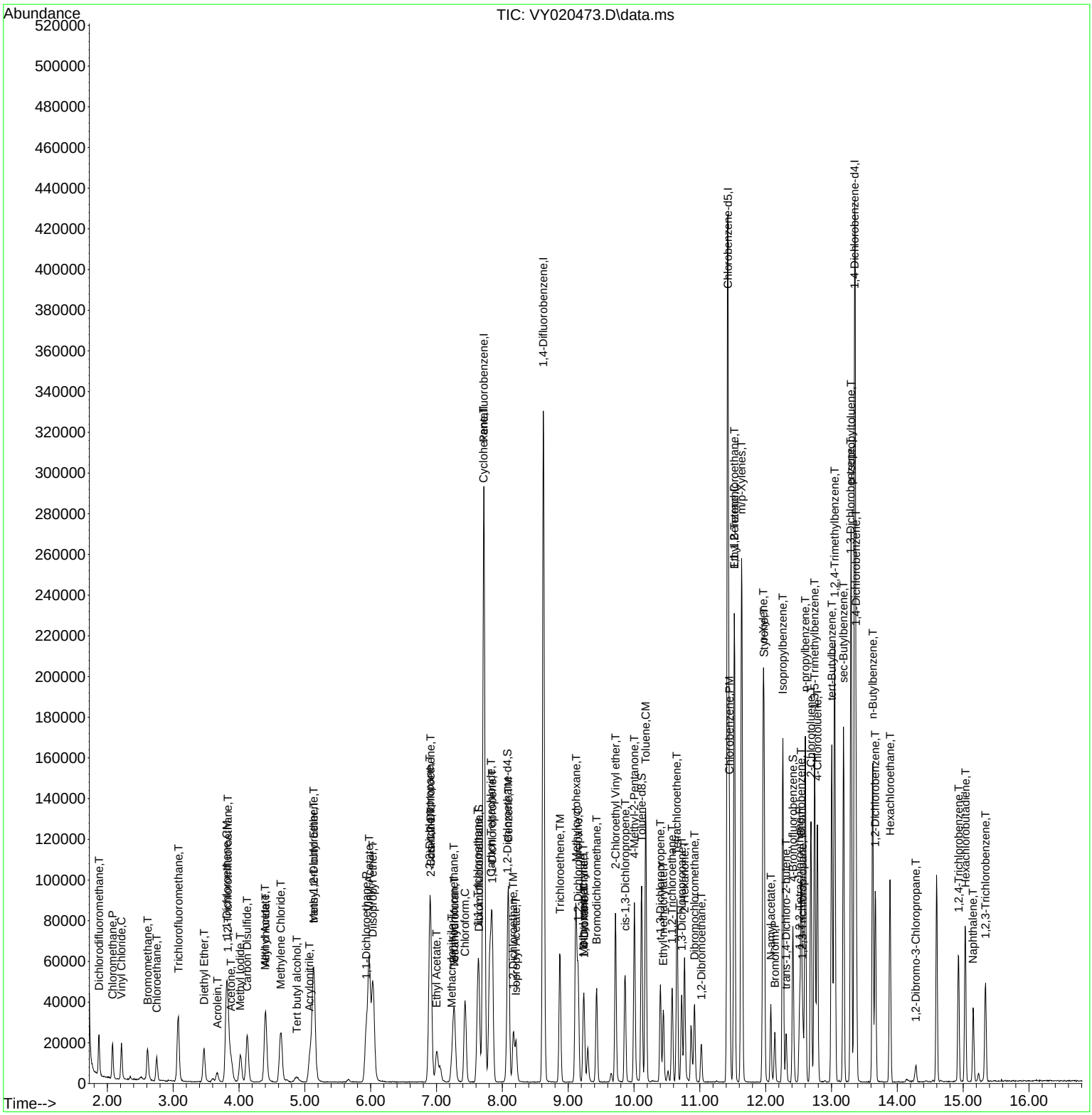
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020473.D
Acq On : 02 Dec 2024 09:38
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 02 14:34:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020474.D
Acq On : 02 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:35:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	173855	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	272895	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	216671	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	99204	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	30540	17.272	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	34.540%#		
35) Dibromofluoromethane	7.652	113	30062	17.498	ug/l	0.02
Spiked Amount 50.000	Range 54 - 147		Recovery =	35.000%#		
50) Toluene-d8	10.115	98	115585	17.669	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	35.340%#		
62) 4-Bromofluorobenzene	12.414	95	39749	17.373	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery =	34.740%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	29334	17.297	ug/l	98
3) Chloromethane	2.080	50	30125	17.564	ug/l	98
4) Vinyl Chloride	2.214	62	30774	17.578	ug/l	100
5) Bromomethane	2.605	94	17681	17.213	ug/l	98
6) Chloroethane	2.751	64	19833	18.484	ug/l	100
7) Trichlorofluoromethane	3.074	101	59688	18.204	ug/l	100
8) Diethyl Ether	3.464	74	17282	18.602	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.830	101	36846	19.286	ug/l	97
10) Methyl Iodide	4.019	142	38953	18.162	ug/l	96
11) Tert butyl alcohol	4.885	59	10503	91.571	ug/l #	73
12) 1,1-Dichloroethene	3.806	96	32806	18.178	ug/l	94
13) Acrolein	3.659	56	10862	101.148	ug/l	100
14) Allyl chloride	4.397	41	59819	18.584	ug/l	95
15) Acrylonitrile	5.074	53	35750	92.357	ug/l	98
16) Acetone	3.879	43	34537	78.557	ug/l	100
17) Carbon Disulfide	4.123	76	86530	16.752	ug/l	100
18) Methyl Acetate	4.397	43	16333	17.479	ug/l	96
19) Methyl tert-butyl Ether	5.128	73	84384	18.309	ug/l	94
20) Methylene Chloride	4.635	84	34701	18.555	ug/l	96
21) trans-1,2-Dichloroethene	5.135	96	36728	18.322	ug/l	98
22) Diisopropyl ether	6.031	45	121718	19.016	ug/l	96
23) Vinyl Acetate	5.976	43	310990	91.859	ug/l	100
24) 1,1-Dichloroethane	5.933	63	73205	18.997	ug/l	100
25) 2-Butanone	6.909	43	47558	85.666	ug/l	96
26) 2,2-Dichloropropane	6.903	77	69202	18.987	ug/l	99
27) cis-1,2-Dichloroethene	6.909	96	44794	19.137	ug/l	97
28) Bromochloromethane	7.256	49	25293	17.577	ug/l	96
29) Tetrahydrofuran	7.274	42	28041	88.539	ug/l	99
30) Chloroform	7.433	83	75524	19.096	ug/l	99
31) Cyclohexane	7.707	56	63389	18.196	ug/l	97
32) 1,1,1-Trichloroethane	7.628	97	71648	18.814	ug/l	98
36) 1,1-Dichloropropene	7.848	75	54666	18.842	ug/l	99
37) Ethyl Acetate	6.994	43	20808	18.104	ug/l	98
38) Carbon Tetrachloride	7.829	117	65522	18.923	ug/l	97
39) Methylcyclohexane	9.116	83	65702	18.250	ug/l	97
40) Benzene	8.091	78	160862	18.806	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020474.D
Acq On : 02 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 02 14:35:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41)	Methacrylonitrile	7.232	41	10591	8.489	ug/l		94
42)	1,2-Dichloroethane	8.165	62	41621	18.518	ug/l		100
43)	Isopropyl Acetate	8.207	43	42639	18.371	ug/l	#	85
44)	Trichloroethene	8.872	130	40754	19.326	ug/l		98
45)	1,2-Dichloropropane	9.146	63	38665	19.316	ug/l		97
46)	Dibromomethane	9.238	93	18517	18.684	ug/l		97
47)	Bromodichloromethane	9.433	83	55296	18.937	ug/l		97
48)	Methyl methacrylate	9.225	41	19499	18.016	ug/l		96
49)	1,4-Dioxane	9.238	88	3332	351.726	ug/l	#	94
51)	4-Methyl-2-Pentanone	10.006	43	103525	90.320	ug/l		98
52)	Toluene	10.176	92	100871	18.901	ug/l		99
53)	t-1,3-Dichloropropene	10.402	75	48598	18.538	ug/l		99
54)	cis-1,3-Dichloropropene	9.865	75	58282	18.812	ug/l		95
55)	1,1,2-Trichloroethane	10.579	97	24784	18.746	ug/l		99
56)	Ethyl methacrylate	10.445	69	33004	17.643	ug/l		94
57)	1,3-Dichloropropane	10.725	76	43597	18.415	ug/l		100
58)	2-Chloroethyl Vinyl ether	9.719	63	78881	90.062	ug/l		98
59)	2-Hexanone	10.768	43	71529	86.505	ug/l		97
60)	Dibromochloromethane	10.920	129	33982	18.462	ug/l		99
61)	1,2-Dibromoethane	11.024	107	22549	18.651	ug/l		96
64)	Tetrachloroethene	10.652	164	34652	18.927	ug/l		98
65)	Chlorobenzene	11.451	112	104028	19.155	ug/l		99
66)	1,1,1,2-Tetrachloroethane	11.524	131	37502	19.471	ug/l		98
67)	Ethyl Benzene	11.524	91	196572	19.310	ug/l		99
68)	m/p-Xylenes	11.633	106	144999	38.899	ug/l		99
69)	o-Xylene	11.963	106	67545	19.342	ug/l		97
70)	Styrene	11.975	104	112029	19.228	ug/l		98
71)	Bromoform	12.139	173	18279	18.666	ug/l	#	99
73)	Isopropylbenzene	12.261	105	189327	19.725	ug/l		99
74)	N-amyl acetate	12.078	43	34108	18.130	ug/l		99
75)	1,1,2,2-Tetrachloroethane	12.511	83	26261	19.025	ug/l		98
76)	1,2,3-Trichloropropane	12.560	75	19652m	10.489	ug/l		
77)	Bromobenzene	12.536	156	38634	19.436	ug/l		96
78)	n-propylbenzene	12.603	91	225997	19.886	ug/l		98
79)	2-Chlorotoluene	12.688	91	128038	19.967	ug/l		98
80)	1,3,5-Trimethylbenzene	12.743	105	154158	20.041	ug/l		98
81)	trans-1,4-Dichloro-2-b...	12.310	75	9306	18.895	ug/l		97
82)	4-Chlorotoluene	12.786	91	129199	19.743	ug/l		99
83)	tert-Butylbenzene	13.005	119	139745	20.095	ug/l		99
84)	1,2,4-Trimethylbenzene	13.048	105	148672	19.886	ug/l		100
85)	sec-Butylbenzene	13.182	105	198601	19.927	ug/l		100
86)	p-Isopropyltoluene	13.298	119	163704	19.877	ug/l		100
87)	1,3-Dichlorobenzene	13.298	146	74277	19.376	ug/l		99
88)	1,4-Dichlorobenzene	13.371	146	73525	19.592	ug/l		99
89)	n-Butylbenzene	13.627	91	150436	19.694	ug/l		99
90)	Hexachloroethane	13.889	117	31117	19.387	ug/l		98
91)	1,2-Dichlorobenzene	13.664	146	63283	19.466	ug/l		99
92)	1,2-Dibromo-3-Chloropr...	14.279	75	3799	18.180	ug/l		98
93)	1,2,4-Trichlorobenzene	14.932	180	32743	17.912	ug/l		98
94)	Hexachlorobutadiene	15.029	225	23870	18.665	ug/l		98
95)	Naphthalene	15.151	128	52412	17.718	ug/l		100
96)	1,2,3-Trichlorobenzene	15.340	180	26414	17.907	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020474.D
Acq On : 02 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:35:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

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

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

ICAL Form

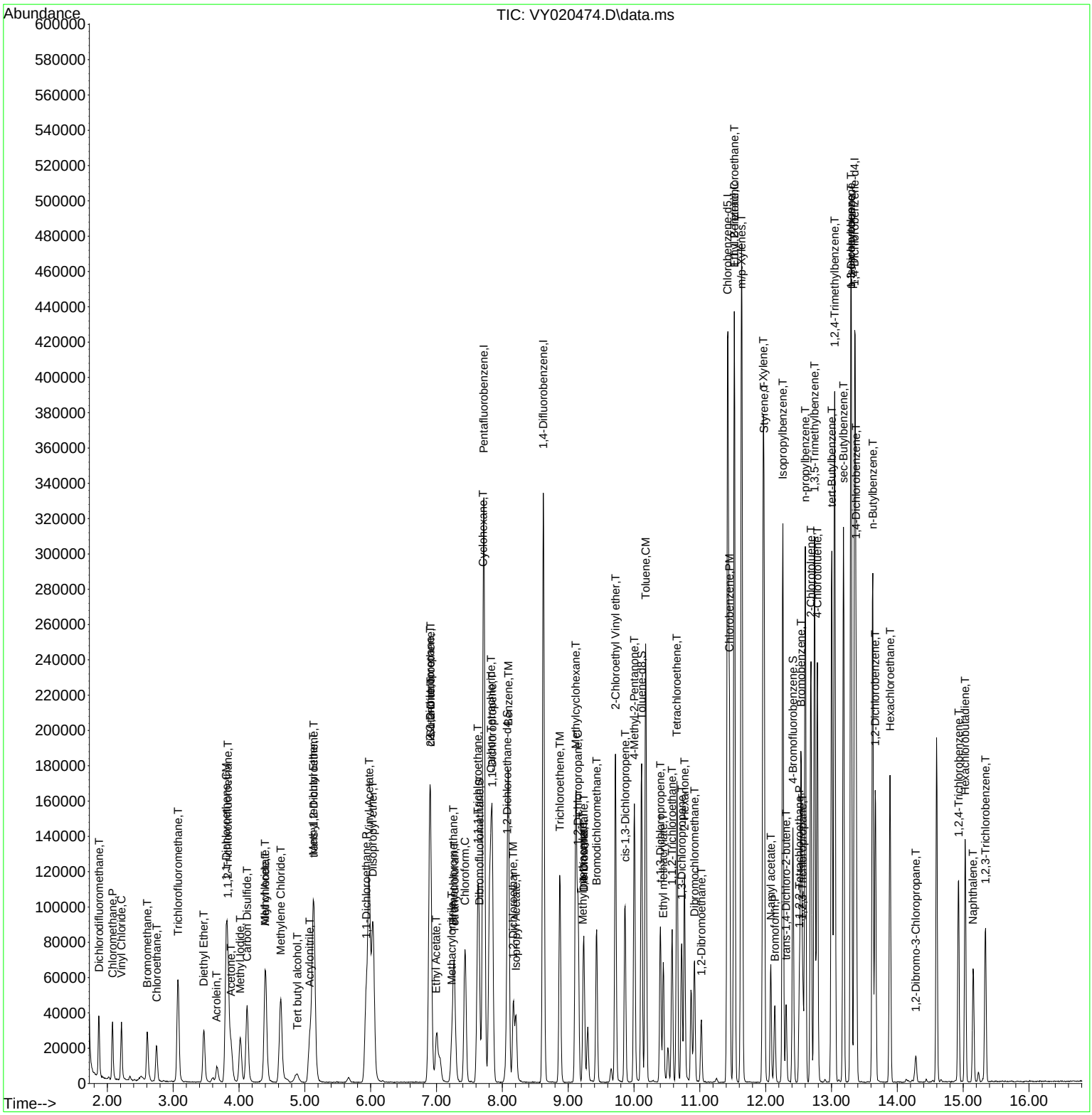
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020474.D
Acq On : 02 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 02 14:35:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020475.D
Acq On : 02 Dec 2024 10:24
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 14:35:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	155772	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	239903	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	199039	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.353	152	95193	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	86839	54.815	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.620%			
35) Dibromofluoromethane	7.646	113	83085	55.012	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.020%			
50) Toluene-d8	10.115	98	316633	55.057	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 110.120%			
62) 4-Bromofluorobenzene	12.414	95	108310	53.849	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 107.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	82109	54.038	ug/l	98
3) Chloromethane	2.080	50	81717	53.174	ug/l	96
4) Vinyl Chloride	2.214	62	84139	53.640	ug/l	95
5) Bromomethane	2.611	94	47831	51.970	ug/l	100
6) Chloroethane	2.745	64	49450	51.435	ug/l	97
7) Trichlorofluoromethane	3.074	101	151188	51.463	ug/l	99
8) Diethyl Ether	3.470	74	41546	49.912	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.830	101	85775	50.109	ug/l	98
10) Methyl Iodide	4.019	142	103373	53.794	ug/l	95
11) Tert butyl alcohol	4.878	59	26061	253.592	ug/l #	86
12) 1,1-Dichloroethene	3.806	96	83132	51.410	ug/l	94
13) Acrolein	3.665	56	21623	224.729	ug/l	98
14) Allyl chloride	4.403	41	146862	50.923	ug/l	96
15) Acrylonitrile	5.074	53	90066	259.690	ug/l	99
16) Acetone	3.885	43	113882	289.103	ug/l	99
17) Carbon Disulfide	4.123	76	258579	55.872	ug/l	99
18) Methyl Acetate	4.403	43	43429	51.872	ug/l	99
19) Methyl tert-butyl Ether	5.135	73	211544	51.227	ug/l	99
20) Methylene Chloride	4.635	84	83720	49.961	ug/l	97
21) trans-1,2-Dichloroethene	5.135	96	90361	50.311	ug/l	97
22) Diisopropyl ether	6.031	45	289358	50.455	ug/l	98
23) Vinyl Acetate	5.976	43	800176	263.789	ug/l	99
24) 1,1-Dichloroethane	5.933	63	170029	49.246	ug/l	99
25) 2-Butanone	6.909	43	139484	280.419	ug/l	99
26) 2,2-Dichloropropane	6.903	77	160984	49.297	ug/l	99
27) cis-1,2-Dichloroethene	6.903	96	105171	50.149	ug/l	97
28) Bromochloromethane	7.256	49	69292	53.742	ug/l	96
29) Tetrahydrofuran	7.274	42	76324	268.967	ug/l	99
30) Chloroform	7.433	83	173063	48.839	ug/l	95
31) Cyclohexane	7.713	56	155692	49.879	ug/l	93
32) 1,1,1-Trichloroethane	7.634	97	168843	49.484	ug/l	97
36) 1,1-Dichloropropene	7.847	75	131920	51.724	ug/l	99
37) Ethyl Acetate	7.000	43	52541	51.999	ug/l	98
38) Carbon Tetrachloride	7.829	117	155722	51.157	ug/l	97
39) Methylcyclohexane	9.116	83	166363	52.566	ug/l	97
40) Benzene	8.091	78	380413	50.588	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020475.D
Acq On : 02 Dec 2024 10:24
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 14:35:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	32093	29.260	ug/l		98
42) 1,2-Dichloroethane	8.171	62	102637	51.944	ug/l		99
43) Isopropyl Acetate	8.207	43	108207	53.033	ug/l		97
44) Trichloroethene	8.872	130	93065	50.203	ug/l		99
45) 1,2-Dichloropropane	9.146	63	86411	49.106	ug/l		99
46) Dibromomethane	9.237	93	44234	50.770	ug/l		98
47) Bromodichloromethane	9.433	83	127504	49.671	ug/l		98
48) Methyl methacrylate	9.231	41	50583	53.165	ug/l		96
49) 1,4-Dioxane	9.244	88	9081	1090.417	ug/l		97
51) 4-Methyl-2-Pentanone	10.006	43	270025	267.981	ug/l		99
52) Toluene	10.176	92	238703	50.878	ug/l		99
53) t-1,3-Dichloropropene	10.402	75	118994	51.634	ug/l		100
54) cis-1,3-Dichloropropene	9.865	75	139317	51.152	ug/l		97
55) 1,1,2-Trichloroethane	10.579	97	59217	50.951	ug/l		98
56) Ethyl methacrylate	10.445	69	88660	53.914	ug/l		94
57) 1,3-Dichloropropane	10.725	76	106282	51.068	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.719	63	239007	310.414	ug/l		97
59) 2-Hexanone	10.768	43	206410	283.955	ug/l		98
60) Dibromochloromethane	10.920	129	83049	51.325	ug/l		99
61) 1,2-Dibromoethane	11.024	107	54480	51.259	ug/l		99
64) Tetrachloroethene	10.652	164	83677	49.754	ug/l		97
65) Chlorobenzene	11.450	112	245417	49.192	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.524	131	86377	48.819	ug/l		98
67) Ethyl Benzene	11.524	91	466609	49.897	ug/l		100
68) m/p-Xylenes	11.633	106	337704	98.621	ug/l		97
69) o-Xylene	11.963	106	160324	49.976	ug/l		99
70) Styrene	11.975	104	268033	50.080	ug/l		99
71) Bromoform	12.139	173	45872	50.993	ug/l	#	99
73) Isopropylbenzene	12.261	105	435110	47.241	ug/l		99
74) N-amyl acetate	12.078	43	94663	52.438	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.511	83	65184	49.213	ug/l		98
76) 1,2,3-Trichloropropane	12.560	75	40109m	22.311	ug/l		
77) Bromobenzene	12.542	156	91501	47.972	ug/l		98
78) n-propylbenzene	12.603	91	520871	47.765	ug/l		99
79) 2-Chlorotoluene	12.688	91	290546	47.218	ug/l		100
80) 1,3,5-Trimethylbenzene	12.743	105	352940	47.818	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.310	75	23979	50.738	ug/l		97
82) 4-Chlorotoluene	12.786	91	298495	47.536	ug/l		98
83) tert-Butylbenzene	13.005	119	315064	47.214	ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	343348	47.860	ug/l		100
85) sec-Butylbenzene	13.182	105	452869	47.354	ug/l		99
86) p-Isopropyltoluene	13.298	119	378563	47.902	ug/l		99
87) 1,3-Dichlorobenzene	13.298	146	175749	47.777	ug/l		100
88) 1,4-Dichlorobenzene	13.377	146	172249	47.832	ug/l		100
89) n-Butylbenzene	13.627	91	352227	48.055	ug/l		99
90) Hexachloroethane	13.889	117	72237	46.902	ug/l		97
91) 1,2-Dichlorobenzene	13.670	146	150345	48.195	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	10309	51.412	ug/l		99
93) 1,2,4-Trichlorobenzene	14.932	180	87676	49.983	ug/l		100
94) Hexachlorobutadiene	15.029	225	61454	50.079	ug/l		98
95) Naphthalene	15.151	128	152909	53.869	ug/l		99
96) 1,2,3-Trichlorobenzene	15.340	180	72218	51.023	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020475.D
Acq On : 02 Dec 2024 10:24
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:35:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

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

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

ICAL Form

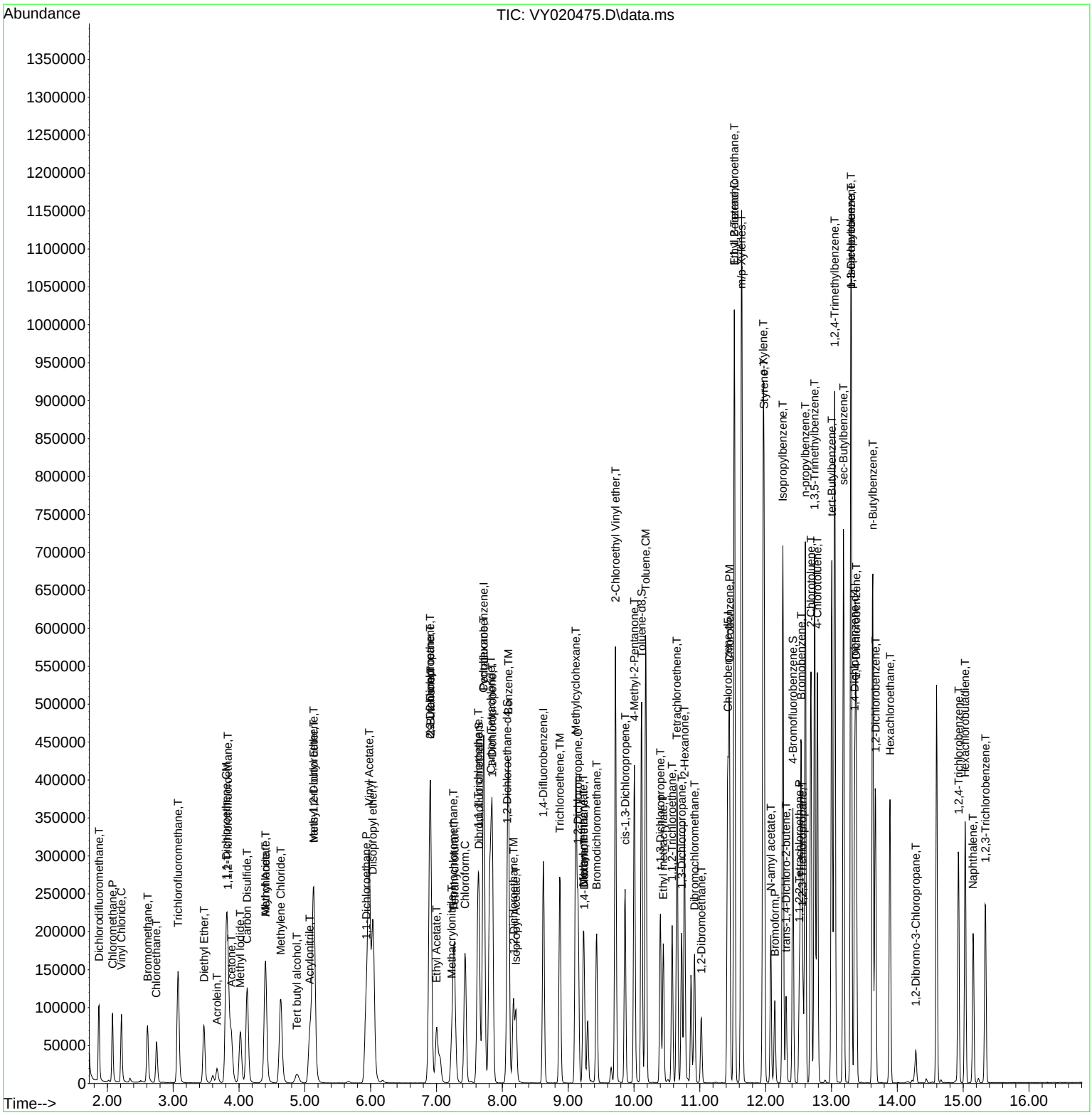
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020475.D
Acq On : 02 Dec 2024 10:24
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 14:35:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020476.D
Acq On : 02 Dec 2024 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:35:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	151260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	236181	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	195042	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	90523	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	148454	96.503	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 193.000%#			
35) Dibromofluoromethane	7.646	113	145422	97.804	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 195.600%#			
50) Toluene-d8	10.115	98	558704	98.680	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 197.360%#			
62) 4-Bromofluorobenzene	12.414	95	190150	96.027	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 192.060%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	154118	104.455	ug/l	99
3) Chloromethane	2.074	50	150451	100.819	ug/l	99
4) Vinyl Chloride	2.214	62	154441	101.396	ug/l	98
5) Bromomethane	2.610	94	90117	100.837	ug/l	97
6) Chloroethane	2.745	64	93309	99.950	ug/l	99
7) Trichlorofluoromethane	3.074	101	281034	98.514	ug/l	99
8) Diethyl Ether	3.464	74	76699	94.892	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.836	101	156171	93.955	ug/l	97
10) Methyl Iodide	4.019	142	194378	104.170	ug/l	94
11) Tert butyl alcohol	4.884	59	41546	416.331	ug/l	100
12) 1,1-Dichloroethene	3.805	96	154710	98.530	ug/l	97
13) Acrolein	3.665	56	40267	430.982	ug/l	98
14) Allyl chloride	4.397	41	272701	97.376	ug/l	96
15) Acrylonitrile	5.080	53	157558	467.842	ug/l	99
16) Acetone	3.885	43	190011	496.754	ug/l	98
17) Carbon Disulfide	4.122	76	480272	106.869	ug/l	99
18) Methyl Acetate	4.397	43	74926	92.162	ug/l	98
19) Methyl tert-butyl Ether	5.134	73	385115	96.040	ug/l	98
20) Methylene Chloride	4.628	84	158563	97.448	ug/l	94
21) trans-1,2-Dichloroethene	5.134	96	170701	97.878	ug/l	97
22) Diisopropyl ether	6.031	45	526877	94.612	ug/l	99
23) Vinyl Acetate	5.976	43	1430974	485.812	ug/l	99
24) 1,1-Dichloroethane	5.933	63	319948	95.431	ug/l	98
25) 2-Butanone	6.908	43	228851	473.807	ug/l	98
26) 2,2-Dichloropropane	6.902	77	301229	94.994	ug/l	99
27) cis-1,2-Dichloroethene	6.902	96	195931	96.212	ug/l	98
28) Bromochloromethane	7.256	49	126767	101.252	ug/l	94
29) Tetrahydrofuran	7.280	42	125683	456.120	ug/l	97
30) Chloroform	7.433	83	328137	95.364	ug/l	99
31) Cyclohexane	7.713	56	287101	94.723	ug/l	98
32) 1,1,1-Trichloroethane	7.628	97	319071	96.302	ug/l	97
36) 1,1-Dichloropropene	7.847	75	243688	97.052	ug/l	100
37) Ethyl Acetate	6.994	43	91608	92.091	ug/l	98
38) Carbon Tetrachloride	7.829	117	292195	97.504	ug/l	97
39) Methylcyclohexane	9.115	83	319391	102.509	ug/l	98
40) Benzene	8.091	78	723254	97.696	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020476.D
Acq On : 02 Dec 2024 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:35:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	49734	46.059	ug/l		94
42) 1,2-Dichloroethane	8.170	62	187426	96.351	ug/l		100
43) Isopropyl Acetate	8.207	43	191878	95.523	ug/l		97
44) Trichloroethene	8.872	130	179226	98.205	ug/l		97
45) 1,2-Dichloropropane	9.152	63	164435	94.918	ug/l		100
46) Dibromomethane	9.237	93	83985	97.914	ug/l		100
47) Bromodichloromethane	9.432	83	243087	96.191	ug/l		98
48) Methyl methacrylate	9.231	41	93934	100.284	ug/l		96
49) 1,4-Dioxane	9.243	88	14343	1749.402	ug/l	#	94
51) 4-Methyl-2-Pentanone	10.005	43	470709	474.508	ug/l		98
52) Toluene	10.176	92	454998	98.507	ug/l		99
53) t-1,3-Dichloropropene	10.402	75	225351	99.326	ug/l		99
54) cis-1,3-Dichloropropene	9.865	75	265874	99.158	ug/l		96
55) 1,1,2-Trichloroethane	10.579	97	109337	95.558	ug/l		97
56) Ethyl methacrylate	10.444	69	163015	100.691	ug/l		95
57) 1,3-Dichloropropane	10.725	76	196790	96.046	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.719	63	393826	519.549	ug/l		97
59) 2-Hexanone	10.768	43	351914	491.752	ug/l		96
60) Dibromochloromethane	10.920	129	152698	95.855	ug/l		99
61) 1,2-Dibromoethane	11.024	107	100399	95.952	ug/l		100
64) Tetrachloroethene	10.652	164	159049	96.507	ug/l		96
65) Chlorobenzene	11.450	112	473220	96.796	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.523	131	165815	95.637	ug/l		97
67) Ethyl Benzene	11.523	91	893771	97.534	ug/l		98
68) m/p-Xylenes	11.633	106	654704	195.114	ug/l		98
69) o-Xylene	11.962	106	304306	96.803	ug/l		97
70) Styrene	11.975	104	511460	97.521	ug/l		99
71) Bromoform	12.139	173	83139	94.315	ug/l	#	99
73) Isopropylbenzene	12.261	105	844476	96.417	ug/l		99
74) N-amyl acetate	12.078	43	169008	98.451	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.511	83	116644	92.607	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	86316m	50.490	ug/l		
77) Bromobenzene	12.536	156	173574	95.696	ug/l		96
78) n-propylbenzene	12.603	91	1000072	96.440	ug/l		99
79) 2-Chlorotoluene	12.688	91	558791	95.496	ug/l		100
80) 1,3,5-Trimethylbenzene	12.743	105	673528	95.960	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.310	75	42708	95.029	ug/l		96
82) 4-Chlorotoluene	12.785	91	568413	95.190	ug/l		99
83) tert-Butylbenzene	13.005	119	615819	97.044	ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	655272	96.051	ug/l		99
85) sec-Butylbenzene	13.182	105	875087	96.224	ug/l		99
86) p-Isopropyltoluene	13.298	119	732232	97.434	ug/l		99
87) 1,3-Dichlorobenzene	13.291	146	334964	95.758	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	325321	94.999	ug/l		100
89) n-Butylbenzene	13.621	91	690947	99.130	ug/l		99
90) Hexachloroethane	13.889	117	143280	97.829	ug/l		95
91) 1,2-Dichlorobenzene	13.663	146	280330	94.500	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	17886	93.801	ug/l		99
93) 1,2,4-Trichlorobenzene	14.931	180	174724	104.747	ug/l		99
94) Hexachlorobutadiene	15.029	225	120502	103.263	ug/l		99
95) Naphthalene	15.151	128	286320	106.072	ug/l		100
96) 1,2,3-Trichlorobenzene	15.340	180	141515	105.140	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020476.D
Acq On : 02 Dec 2024 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:35:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

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

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

ICAL Form

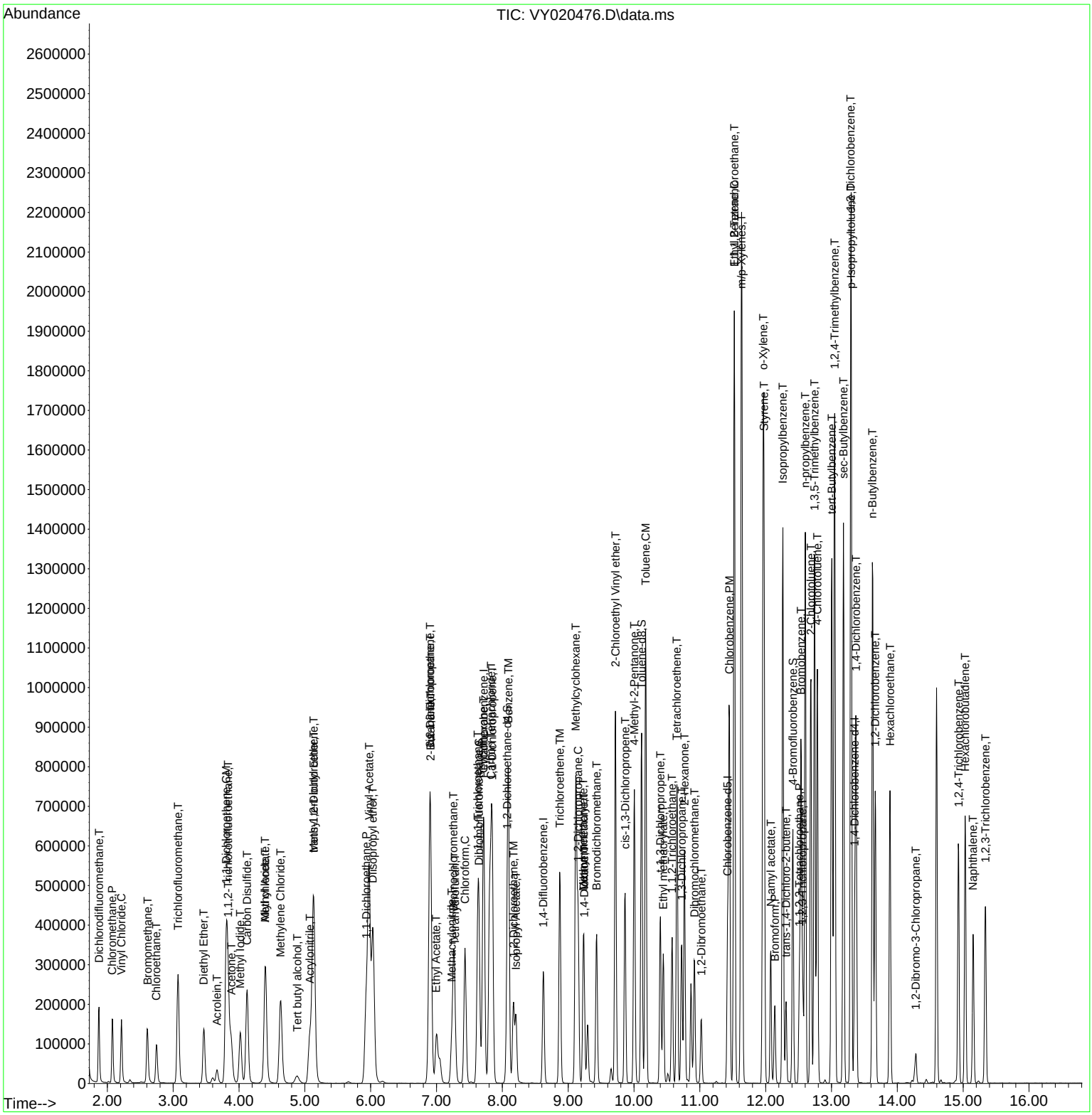
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020476.D
Acq On : 02 Dec 2024 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 14:35:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020477.D
Acq On : 02 Dec 2024 11:09
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:35:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	163098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	255701	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	208400	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	94390	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	249913	150.665	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 301.320%#			
35) Dibromofluoromethane	7.646	113	238441	148.122	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 296.240%#			
50) Toluene-d8	10.115	98	911267	148.665	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 297.320%#			
62) 4-Bromofluorobenzene	12.413	95	310329	144.754	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 289.500%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	250310	157.336	ug/l	98
3) Chloromethane	2.074	50	253265	157.398	ug/l	98
4) Vinyl Chloride	2.214	62	257279	156.652	ug/l	99
5) Bromomethane	2.604	94	149699	155.348	ug/l	98
6) Chloroethane	2.744	64	155422	154.401	ug/l	98
7) Trichlorofluoromethane	3.074	101	470608	152.994	ug/l	100
8) Diethyl Ether	3.464	74	135260	155.197	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.829	101	262950	146.713	ug/l	98
10) Methyl Iodide	4.018	142	319792	158.942	ug/l	95
11) Tert butyl alcohol	4.878	59	80459	747.755	ug/l	100
12) 1,1-Dichloroethene	3.805	96	260339	153.767	ug/l	94
13) Acrolein	3.665	56	70632	701.110	ug/l	98
14) Allyl chloride	4.396	41	458146	151.721	ug/l	96
15) Acrylonitrile	5.073	53	280365	772.073	ug/l	99
16) Acetone	3.878	43	348316	844.522	ug/l	97
17) Carbon Disulfide	4.122	76	804833	166.091	ug/l	99
18) Methyl Acetate	4.396	43	136321	155.509	ug/l	98
19) Methyl tert-butyl Ether	5.128	73	668245	154.551	ug/l	97
20) Methylene Chloride	4.634	84	265981	151.599	ug/l	93
21) trans-1,2-Dichloroethene	5.128	96	280386	149.100	ug/l	96
22) Diisopropyl ether	6.030	45	885164	147.413	ug/l	98
23) Vinyl Acetate	5.975	43	2469485	777.532	ug/l	99
24) 1,1-Dichloroethane	5.933	63	532934	147.421	ug/l	99
25) 2-Butanone	6.908	43	418806	804.149	ug/l	97
26) 2,2-Dichloropropane	6.902	77	501474	146.664	ug/l	99
27) cis-1,2-Dichloroethene	6.908	96	328949	149.807	ug/l	98
28) Bromochloromethane	7.256	49	207149	153.446	ug/l	92
29) Tetrahydrofuran	7.274	42	228857	770.269	ug/l	98
30) Chloroform	7.433	83	543649	146.530	ug/l	98
31) Cyclohexane	7.713	56	465462	142.423	ug/l	96
32) 1,1,1-Trichloroethane	7.628	97	521442	145.958	ug/l	97
36) 1,1-Dichloropropene	7.847	75	399699	147.034	ug/l	99
37) Ethyl Acetate	6.994	43	164255	152.516	ug/l	98
38) Carbon Tetrachloride	7.829	117	482482	148.710	ug/l	99
39) Methylcyclohexane	9.115	83	517160	153.312	ug/l	98
40) Benzene	8.091	78	1180011	147.226	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020477.D
Acq On : 02 Dec 2024 11:09
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 14:35:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.231	41	102358	87.558	ug/l		94
42) 1,2-Dichloroethane	8.164	62	318221	151.101	ug/l		99
43) Isopropyl Acetate	8.207	43	343314	157.866	ug/l		97
44) Trichloroethene	8.871	130	292267	147.919	ug/l		97
45) 1,2-Dichloropropane	9.152	63	270734	144.347	ug/l		97
46) Dibromomethane	9.237	93	140922	151.752	ug/l		97
47) Bromodichloromethane	9.432	83	407222	148.839	ug/l		99
48) Methyl methacrylate	9.225	41	165171	162.875	ug/l		97
49) 1,4-Dioxane	9.237	88	26423	2976.762	ug/l	#	95
51) 4-Methyl-2-Pentanone	10.005	43	836534	778.910	ug/l		98
52) Toluene	10.176	92	746875	149.355	ug/l		98
53) t-1,3-Dichloropropene	10.401	75	381443	155.290	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	442462	152.419	ug/l		96
55) 1,1,2-Trichloroethane	10.578	97	182844	147.602	ug/l		98
56) Ethyl methacrylate	10.444	69	285155	162.688	ug/l		94
57) 1,3-Dichloropropane	10.725	76	329078	148.350	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.719	63	647294	788.744	ug/l		96
59) 2-Hexanone	10.767	43	624603	806.169	ug/l		97
60) Dibromochloromethane	10.920	129	258183	149.700	ug/l		99
61) 1,2-Dibromoethane	11.023	107	170763	150.740	ug/l		99
64) Tetrachloroethene	10.651	164	260616	148.000	ug/l		98
65) Chlorobenzene	11.450	112	775088	148.381	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.523	131	272452	147.070	ug/l		98
67) Ethyl Benzene	11.523	91	1453683	148.467	ug/l		99
68) m/p-Xylenes	11.633	106	1059213	295.432	ug/l		98
69) o-Xylene	11.962	106	497513	148.119	ug/l		98
70) Styrene	11.974	104	834148	148.854	ug/l		99
71) Bromoform	12.139	173	143847	152.724	ug/l	#	99
73) Isopropylbenzene	12.261	105	1352223	148.063	ug/l		99
74) N-amyl acetate	12.078	43	292853	163.605	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.511	83	196043	149.268	ug/l		98
76) 1,2,3-Trichloropropane	12.560	75	151365m	84.913	ug/l		
77) Bromobenzene	12.535	156	282989	149.627	ug/l		97
78) n-propylbenzene	12.602	91	1581416	146.253	ug/l		98
79) 2-Chlorotoluene	12.688	91	891790	146.161	ug/l		100
80) 1,3,5-Trimethylbenzene	12.743	105	1084359	148.163	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.310	75	74170	158.274	ug/l		96
82) 4-Chlorotoluene	12.785	91	912739	146.591	ug/l		98
83) tert-Butylbenzene	13.005	119	969775	146.561	ug/l		99
84) 1,2,4-Trimethylbenzene	13.047	105	1047513	147.256	ug/l		99
85) sec-Butylbenzene	13.181	105	1386634	146.227	ug/l		99
86) p-Isopropyltoluene	13.297	119	1162926	148.404	ug/l		99
87) 1,3-Dichlorobenzene	13.297	146	539573	147.931	ug/l		100
88) 1,4-Dichlorobenzene	13.370	146	526394	147.418	ug/l		99
89) n-Butylbenzene	13.627	91	1089026	149.841	ug/l		99
90) Hexachloroethane	13.889	117	229363	150.189	ug/l		95
91) 1,2-Dichlorobenzene	13.663	146	464183	150.066	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.279	75	31544	158.651	ug/l		98
93) 1,2,4-Trichlorobenzene	14.931	180	285244	163.997	ug/l		100
94) Hexachlorobutadiene	15.035	225	184727	151.815	ug/l		99
95) Naphthalene	15.151	128	494521	175.698	ug/l		100
96) 1,2,3-Trichlorobenzene	15.340	180	231642	165.051	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020477.D
Acq On : 02 Dec 2024 11:09
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:35:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

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

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

ICAL Form

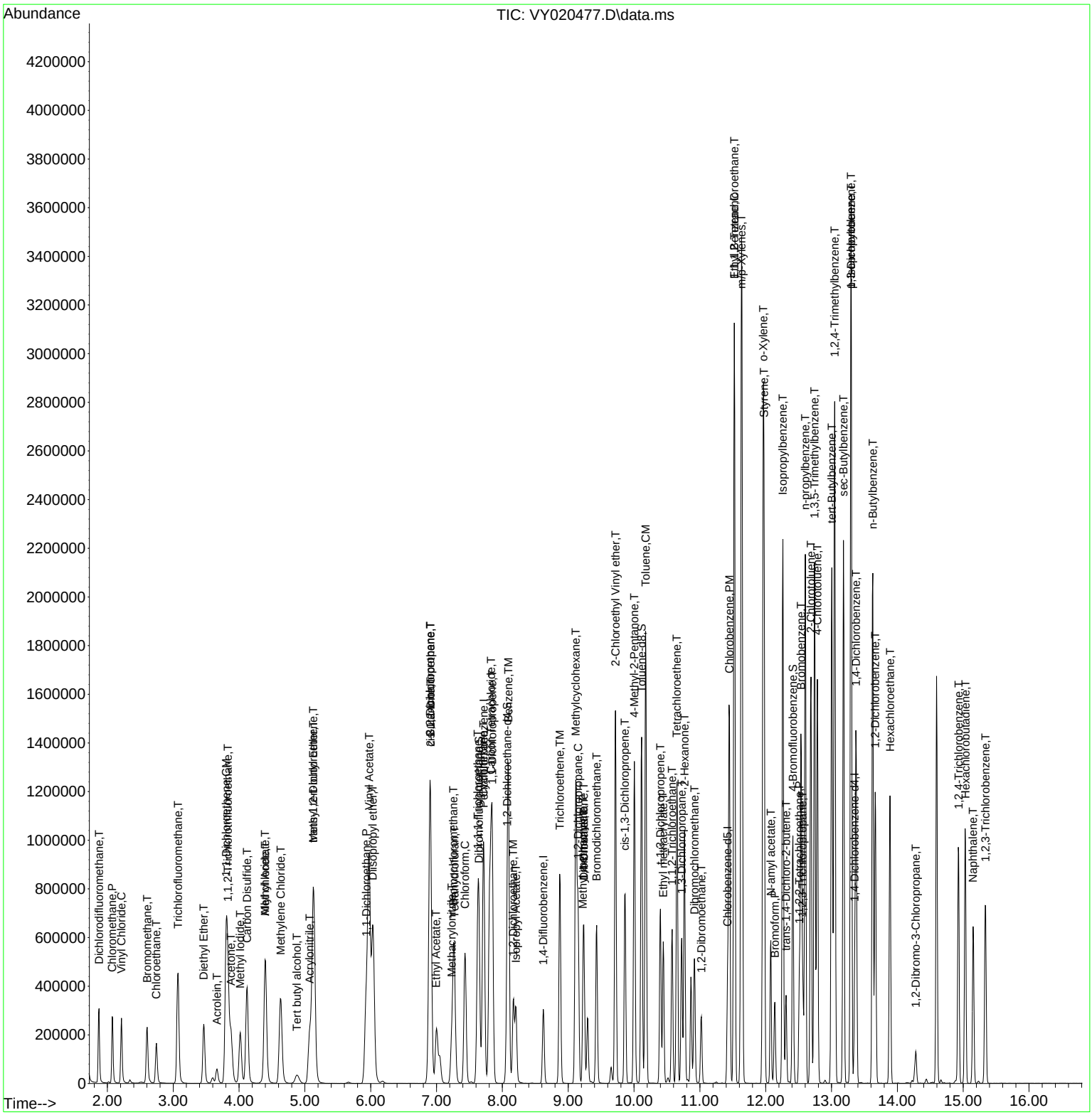
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020477.D
Acq On : 02 Dec 2024 11:09
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 02 14:35:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020479.D
Acq On : 02 Dec 2024 12:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY120224

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:49:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	158616	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.628	114	248904	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.426	117	203284	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.358	152	95038	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	83021	51.465	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.940%			
35) Dibromofluoromethane	7.652	113	80954	51.663	ug/l	0.02
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.320%			
50) Toluene-d8	10.115	98	308281	51.666	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.340%			
62) 4-Bromofluorobenzene	12.414	95	103252	49.477	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 98.960%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	80494	52.025	ug/l	98
3) Chloromethane	2.080	50	82796	52.853	ug/l	96
4) Vinyl Chloride	2.220	62	83549	52.309	ug/l	97
5) Bromomethane	2.617	94	48802	52.075	ug/l	99
6) Chloroethane	2.751	64	51603	52.712	ug/l	97
7) Trichlorofluoromethane	3.074	101	150777	50.402	ug/l	100
8) Diethyl Ether	3.470	74	40546	47.837	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.836	101	83228	47.749	ug/l	97
10) Methyl Iodide	4.025	142	98793	50.489	ug/l	96
11) Tert butyl alcohol	4.884	59	22531	215.311	ug/l	99
12) 1,1-Dichloroethene	3.811	96	82141	49.887	ug/l	94
13) Acrolein	3.671	56	20781	212.106	ug/l	99
14) Allyl chloride	4.403	41	143793	48.965	ug/l	96
15) Acrylonitrile	5.073	53	84091	238.114	ug/l	99
16) Acetone	3.885	43	101273	252.484	ug/l	99
17) Carbon Disulfide	4.128	76	252983	53.683	ug/l	100
18) Methyl Acetate	4.403	43	40533	47.545	ug/l	97
19) Methyl tert-butyl Ether	5.134	73	199569	47.460	ug/l	98
20) Methylene Chloride	4.641	84	82414	48.300	ug/l	94
21) trans-1,2-Dichloroethene	5.140	96	90162	49.300	ug/l	96
22) Diisopropyl ether	6.037	45	281593	48.221	ug/l	98
23) Vinyl Acetate	5.976	43	756007	244.759	ug/l	98
24) 1,1-Dichloroethane	5.939	63	168041	47.797	ug/l	98
25) 2-Butanone	6.908	43	121376	239.639	ug/l	97
26) 2,2-Dichloropropane	6.902	77	157455	47.351	ug/l	99
27) cis-1,2-Dichloroethene	6.908	96	102245	47.879	ug/l	98
28) Bromochloromethane	7.262	49	68730	52.351	ug/l	93
29) Tetrahydrofuran	7.280	42	67109	232.253	ug/l	99
30) Chloroform	7.439	83	170035	47.125	ug/l	99
31) Cyclohexane	7.719	56	151000	47.509	ug/l	95
32) 1,1,1-Trichloroethane	7.634	97	165156	47.536	ug/l	97
36) 1,1-Dichloropropene	7.853	75	127603	48.222	ug/l	99
37) Ethyl Acetate	7.000	43	48698	46.452	ug/l	97
38) Carbon Tetrachloride	7.835	117	152484	48.282	ug/l	98
39) Methylcyclohexane	9.121	83	162064	49.356	ug/l	97
40) Benzene	8.091	78	372666	47.766	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020479.D
Acq On : 02 Dec 2024 12:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY120224

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:49:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.238	41	27182	45.611 ug/l	96
42) 1,2-Dichloroethane	8.170	62	97533	47.576 ug/l	99
43) Isopropyl Acetate	8.207	43	99677	47.086 ug/l #	89
44) Trichloroethene	8.878	130	91945	47.805 ug/l	99
45) 1,2-Dichloropropane	9.152	63	85142	46.635 ug/l	99
46) Dibromomethane	9.243	93	41955	46.413 ug/l	97
47) Bromodichloromethane	9.432	83	123040	46.199 ug/l	98
48) Methyl methacrylate	9.231	41	46281	46.884 ug/l	95
49) 1,4-Dioxane	9.243	88	7538	872.406 ug/l #	91
51) 4-Methyl-2-Pentanone	10.005	43	241260	230.776 ug/l	99
52) Toluene	10.182	92	231949	47.650 ug/l	99
53) t-1,3-Dichloropropene	10.402	75	111365	46.576 ug/l	98
54) cis-1,3-Dichloropropene	9.865	75	133963	47.408 ug/l	98
55) 1,1,2-Trichloroethane	10.579	97	55455	45.989 ug/l	98
56) Ethyl methacrylate	10.444	69	79937	46.851 ug/l	94
57) 1,3-Dichloropropane	10.725	76	100550	46.566 ug/l	100
58) 2-Chloroethyl Vinyl ether	9.719	63	216217	270.661 ug/l	97
59) 2-Hexanone	10.768	43	174751	231.709 ug/l	97
60) Dibromochloromethane	10.920	129	77289	46.038 ug/l	99
61) 1,2-Dibromoethane	11.024	107	50658	45.939 ug/l	99
64) Tetrachloroethene	10.658	164	79718	46.410 ug/l	95
65) Chlorobenzene	11.450	112	234076	45.939 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.523	131	83396	46.150 ug/l	97
67) Ethyl Benzene	11.530	91	447970	46.903 ug/l	99
68) m/p-Xylenes	11.639	106	326520	93.364 ug/l	98
69) o-Xylene	11.962	106	151793	46.329 ug/l	98
70) Styrene	11.975	104	254087	46.483 ug/l	99
71) Bromoform	12.139	173	41691	45.378 ug/l #	100
73) Isopropylbenzene	12.261	105	422132	45.907 ug/l	99
74) N-amyl acetate	12.078	43	79887	44.325 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.511	83	57863	43.757 ug/l	99
76) 1,2,3-Trichloropropane	12.566	75	45279m	46.769 ug/l	
77) Bromobenzene	12.542	156	86329	45.334 ug/l	96
78) n-propylbenzene	12.603	91	495485	45.511 ug/l	99
79) 2-Chlorotoluene	12.688	91	279551	45.505 ug/l	100
80) 1,3,5-Trimethylbenzene	12.743	105	335870	45.579 ug/l	98
81) trans-1,4-Dichloro-2-b...	12.310	75	21115	44.751 ug/l	96
82) 4-Chlorotoluene	12.785	91	280651	44.767 ug/l	99
83) tert-Butylbenzene	13.005	119	302712	45.437 ug/l	98
84) 1,2,4-Trimethylbenzene	13.054	105	326760	45.622 ug/l	100
85) sec-Butylbenzene	13.182	105	438603	45.937 ug/l	100
86) p-Isopropyltoluene	13.298	119	364035	46.139 ug/l	100
87) 1,3-Dichlorobenzene	13.298	146	165214	44.987 ug/l	99
88) 1,4-Dichlorobenzene	13.377	146	161095	44.807 ug/l	100
89) n-Butylbenzene	13.627	91	335948	45.909 ug/l	99
90) Hexachloroethane	13.889	117	69201	45.004 ug/l	95
91) 1,2-Dichlorobenzene	13.669	146	138770	44.557 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.285	75	8643	43.174 ug/l	95
93) 1,2,4-Trichlorobenzene	14.931	180	79210	45.230 ug/l	99
94) Hexachlorobutadiene	15.035	225	53757	43.878 ug/l	99
95) Naphthalene	15.157	128	126616	44.679 ug/l	100
96) 1,2,3-Trichlorobenzene	15.340	180	63113	44.663 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020479.D
Acq On : 02 Dec 2024 12:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY120224

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:49:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

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

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

ICAL Form

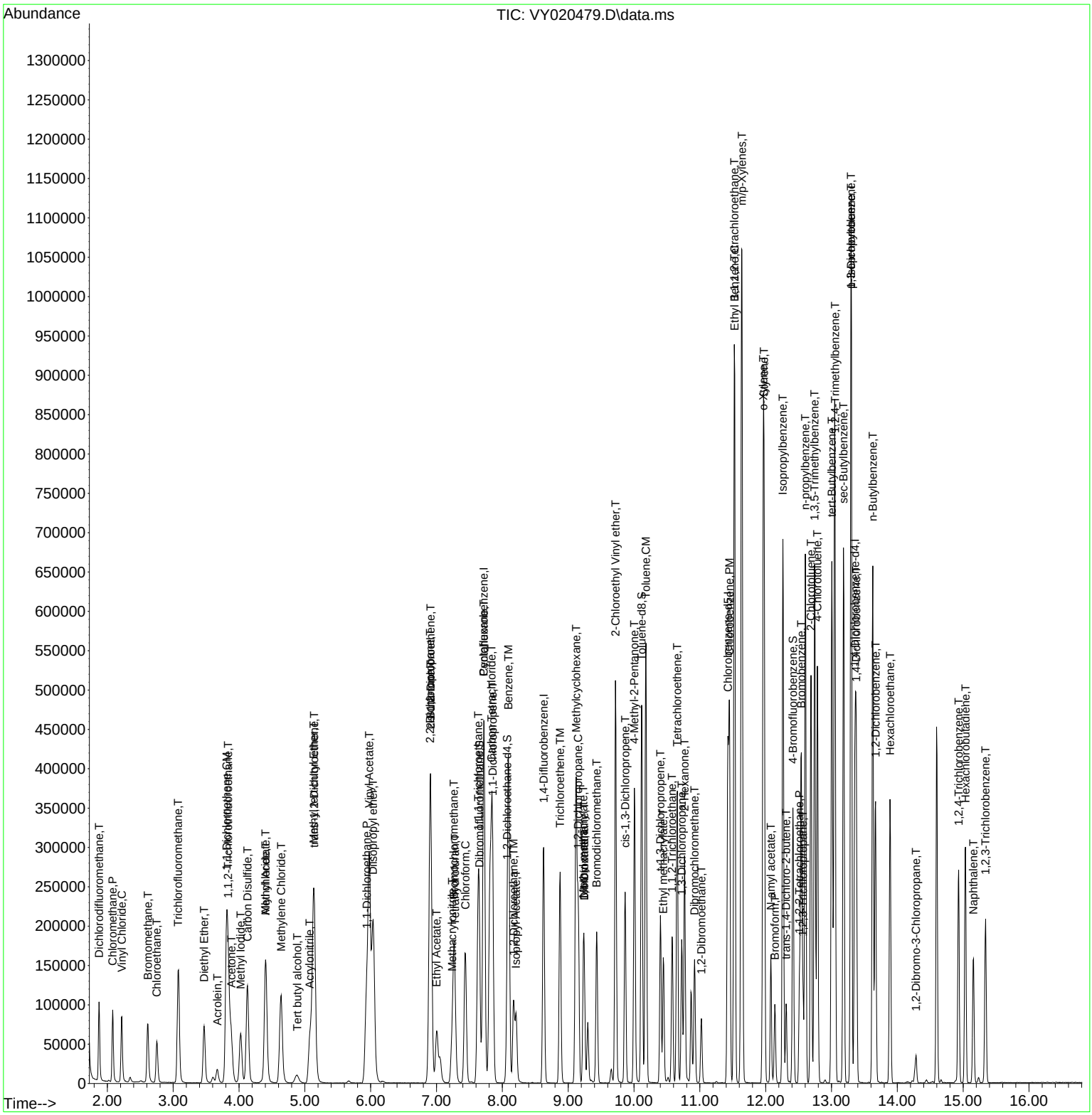
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020479.D
Acq On : 02 Dec 2024 12:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 14:49:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY120224

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020479.D
Acq On : 02 Dec 2024 12:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY120224

Quant Time: Dec 02 14:49:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
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	102	0.00
2	T	Dichlorodifluoromethane	0.488	0.507	-3.9	98	0.00
3	P	Chloromethane	0.494	0.522	-5.7	101	0.00
4	C	Vinyl Chloride	0.503	0.527	-4.8#	99	0.00
5	T	Bromomethane	0.295	0.308	-4.4	102	0.00
6	T	Chloroethane	0.309	0.325	-5.2	104	0.00
7	T	Trichlorofluoromethane	0.943	0.951	-0.8	100	0.00
8	T	Diethyl Ether	0.267	0.256	4.1	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.549	0.525	4.4	97	0.00
10	T	Methyl Iodide	0.617	0.623	-1.0	96	0.00
11	T	Tert butyl alcohol	0.033	0.028	15.2	86	0.00
12	CM	1,1-Dichloroethene	0.519	0.518	0.2#	99	0.00
13	T	Acrolein	0.031	0.026	16.1	96	0.00
14	T	Allyl chloride	0.926	0.907	2.1	98	0.00
15	T	Acrylonitrile	0.111	0.106	4.5	93	0.00
16	T	Acetone	0.126	0.128	-1.6	89	0.00
17	T	Carbon Disulfide	1.486	1.595	-7.3	98	0.00
18	T	Methyl Acetate	0.269	0.256	4.8	93	0.00
19	T	Methyl tert-butyl Ether	1.326	1.258	5.1	94	0.00
20	T	Methylene Chloride	0.538	0.520	3.3	98	0.00
21	T	trans-1,2-Dichloroethene	0.576	0.568	1.4	100	0.00
22	T	Diisopropyl ether	1.841	1.775	3.6	97	0.00
23	T	Vinyl Acetate	0.974	0.953	2.2	94	0.00
24	P	1,1-Dichloroethane	1.108	1.059	4.4	99	0.00
25	T	2-Butanone	0.160	0.153	4.4	87	0.00
26	T	2,2-Dichloropropane	1.048	0.993	5.2	98	0.00
27	T	cis-1,2-Dichloroethene	0.673	0.645	4.2	97	0.00
28	T	Bromochloromethane	0.414	0.433	-4.6	99	0.00
29	T	Tetrahydrofuran	0.091	0.085	6.6	88	0.00
30	C	Chloroform	1.137	1.072	5.7#	98	0.00
31	T	Cyclohexane	1.002	0.952	5.0	97	0.00
32	T	1,1,1-Trichloroethane	1.095	1.041	4.9	98	0.00
33	S	1,2-Dichloroethane-d4	0.509	0.523	-2.8	96	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35	S	Dibromofluoromethane	0.315	0.325	-3.2	97	0.00
36	T	1,1-Dichloropropene	0.532	0.513	3.6	97	0.00
37	T	Ethyl Acetate	0.211	0.196	7.1	93	0.00
38	T	Carbon Tetrachloride	0.634	0.613	3.3	98	0.00
39	T	Methylcyclohexane	0.660	0.651	1.4	97	0.00
40	TM	Benzene	1.567	1.497	4.5	98	0.00
41	T	Methacrylonitrile	0.120	0.109	9.2	85	0.00
42	TM	1,2-Dichloroethane	0.412	0.392	4.9	95	0.00
43	T	Isopropyl Acetate	0.425	0.400	5.9	92	0.00
44	TM	Trichloroethene	0.386	0.369	4.4	99	0.00
45	C	1,2-Dichloropropane	0.367	0.342	6.8#	99	0.00
46	T	Dibromomethane	0.182	0.169	7.1	95	0.00
47	T	Bromodichloromethane	0.535	0.494	7.7	96	0.00
48	T	Methyl methacrylate	0.198	0.186	6.1	91	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020479.D
Acq On : 02 Dec 2024 12:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY120224

Quant Time: Dec 02 14:49:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
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	83	0.00
50	S	Toluene-d8	1.199	1.239	-3.3	97	0.00
51	T	4-Methyl-2-Pentanone	0.210	0.194	7.6	89	0.00
52	CM	Toluene	0.978	0.932	4.7#	97	0.00
53	T	t-1,3-Dichloropropene	0.480	0.447	6.9	94	0.00
54	T	cis-1,3-Dichloropropene	0.568	0.538	5.3	96	0.00
55	T	1,1,2-Trichloroethane	0.242	0.223	7.9	94	0.00
56	T	Ethyl methacrylate	0.343	0.321	6.4	90	0.00
57	T	1,3-Dichloropropane	0.434	0.404	6.9	95	0.00
58	T	2-Chloroethyl Vinyl ether	0.160	0.174	-8.7	90	0.00
59	T	2-Hexanone	0.152	0.140	7.9	85	0.00
60	T	Dibromochloromethane	0.337	0.311	7.7	93	0.00
61	T	1,2-Dibromoethane	0.222	0.204	8.1	93	0.00
62	S	4-Bromofluorobenzene	0.419	0.415	1.0	95	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64	T	Tetrachloroethene	0.422	0.392	7.1	95	0.00
65	PM	Chlorobenzene	1.253	1.151	8.1	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.444	0.410	7.7	97	0.00
67	C	Ethyl Benzene	2.349	2.204	6.2#	96	0.00
68	T	m/p-Xylenes	0.860	0.803	6.6	97	0.00
69	T	o-Xylene	0.806	0.747	7.3	95	0.00
70	T	Styrene	1.344	1.250	7.0	95	0.00
71	P	Bromoform	0.226	0.205	9.3	91	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	4.838	4.442	8.2	97	0.00
74	T	N-amyl acetate	0.948	0.841	11.3	84	0.00
75	P	1,1,2,2-Tetrachloroethane	0.696	0.609	12.5	89	0.00
76	T	1,2,3-Trichloropropane	0.509	0.476	6.5	113	0.00
77	T	Bromobenzene	1.002	0.908	9.4	94	0.00
78	T	n-propylbenzene	5.728	5.214	9.0	95	0.00
79	T	2-Chlorotoluene	3.232	2.941	9.0	96	0.00
80	T	1,3,5-Trimethylbenzene	3.877	3.534	8.8	95	0.00
81	T	trans-1,4-Dichloro-2-butene	0.248	0.222	10.5	88	0.00
82	T	4-Chlorotoluene	3.298	2.953	10.5	94	0.00
83	T	tert-Butylbenzene	3.505	3.185	9.1	96	0.00
84	T	1,2,4-Trimethylbenzene	3.768	3.438	8.8	95	0.00
85	T	sec-Butylbenzene	5.023	4.615	8.1	97	0.00
86	T	p-Isopropyltoluene	4.151	3.830	7.7	96	0.00
87	T	1,3-Dichlorobenzene	1.932	1.738	10.0	94	0.00
88	T	1,4-Dichlorobenzene	1.891	1.695	10.4	94	0.00
89	T	n-Butylbenzene	3.850	3.535	8.2	95	0.00
90	T	Hexachloroethane	0.809	0.728	10.0	96	0.00
91	T	1,2-Dichlorobenzene	1.639	1.460	10.9	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.105	0.091	13.3	84	0.00
93	T	1,2,4-Trichlorobenzene	0.921	0.833	9.6	90	0.00
94	T	Hexachlorobutadiene	0.645	0.566	12.2	87	0.00
95	T	Naphthalene	1.491	1.332	10.7	83	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020479.D
Acq On : 02 Dec 2024 12:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY120224

Quant Time: Dec 02 14:49:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
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	0.743	0.664	10.6	87	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020479.D
Acq On : 02 Dec 2024 12:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY120224

Quant Time: Dec 02 14:49:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
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	102	0.00
2	T	Dichlorodifluoromethane	50.000	52.025	-4.0	98	0.00
3	P	Chloromethane	50.000	52.853	-5.7	101	0.00
4	C	Vinyl Chloride	50.000	52.309	-4.6#	99	0.00
5	T	Bromomethane	50.000	52.075	-4.2	102	0.00
6	T	Chloroethane	50.000	52.712	-5.4	104	0.00
7	T	Trichlorofluoromethane	50.000	50.402	-0.8	100	0.00
8	T	Diethyl Ether	50.000	47.837	4.3	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.749	4.5	97	0.00
10	T	Methyl Iodide	50.000	50.489	-1.0	96	0.00
11	T	Tert butyl alcohol	250.000	215.311	13.9	86	0.00
12	CM	1,1-Dichloroethene	50.000	49.887	0.2#	99	0.00
13	T	Acrolein	250.000	212.106	15.2	96	0.00
14	T	Allyl chloride	50.000	48.965	2.1	98	0.00
15	T	Acrylonitrile	250.000	238.114	4.8	93	0.00
16	T	Acetone	250.000	252.484	-1.0	89	0.00
17	T	Carbon Disulfide	50.000	53.683	-7.4	98	0.00
18	T	Methyl Acetate	50.000	47.545	4.9	93	0.00
19	T	Methyl tert-butyl Ether	50.000	47.460	5.1	94	0.00
20	T	Methylene Chloride	50.000	48.300	3.4	98	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.300	1.4	100	0.00
22	T	Diisopropyl ether	50.000	48.221	3.6	97	0.00
23	T	Vinyl Acetate	250.000	244.759	2.1	94	0.00
24	P	1,1-Dichloroethane	50.000	47.797	4.4	99	0.00
25	T	2-Butanone	250.000	239.639	4.1	87	0.00
26	T	2,2-Dichloropropane	50.000	47.351	5.3	98	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.879	4.2	97	0.00
28	T	Bromochloromethane	50.000	52.351	-4.7	99	0.00
29	T	Tetrahydrofuran	250.000	232.253	7.1	88	0.00
30	C	Chloroform	50.000	47.125	5.8#	98	0.00
31	T	Cyclohexane	50.000	47.509	5.0	97	0.00
32	T	1,1,1-Trichloroethane	50.000	47.536	4.9	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.465	-2.9	96	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35	S	Dibromofluoromethane	50.000	51.663	-3.3	97	0.00
36	T	1,1-Dichloropropene	50.000	48.222	3.6	97	0.00
37	T	Ethyl Acetate	50.000	46.452	7.1	93	0.00
38	T	Carbon Tetrachloride	50.000	48.282	3.4	98	0.00
39	T	Methylcyclohexane	50.000	49.356	1.3	97	0.00
40	TM	Benzene	50.000	47.766	4.5	98	0.00
41	T	Methacrylonitrile	50.000	45.611	8.8	85	0.00
42	TM	1,2-Dichloroethane	50.000	47.576	4.8	95	0.00
43	T	Isopropyl Acetate	50.000	47.086	5.8	92	0.00
44	TM	Trichloroethene	50.000	47.805	4.4	99	0.00
45	C	1,2-Dichloropropane	50.000	46.635	6.7#	99	0.00
46	T	Dibromomethane	50.000	46.413	7.2	95	0.00
47	T	Bromodichloromethane	50.000	46.199	7.6	96	0.00
48	T	Methyl methacrylate	50.000	46.884	6.2	91	0.00

ICAL Form

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Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY120224

Quant Time: Dec 02 14:49:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
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	872.406	12.8	83	0.00
50	S	Toluene-d8	50.000	51.666	-3.3	97	0.00
51	T	4-Methyl-2-Pentanone	250.000	230.776	7.7	89	0.00
52	CM	Toluene	50.000	47.650	4.7#	97	0.00
53	T	t-1,3-Dichloropropene	50.000	46.576	6.8	94	0.00
54	T	cis-1,3-Dichloropropene	50.000	47.408	5.2	96	0.00
55	T	1,1,2-Trichloroethane	50.000	45.989	8.0	94	0.00
56	T	Ethyl methacrylate	50.000	46.851	6.3	90	0.00
57	T	1,3-Dichloropropane	50.000	46.566	6.9	95	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	270.661	-8.3	90	0.00
59	T	2-Hexanone	250.000	231.709	7.3	85	0.00
60	T	Dibromochloromethane	50.000	46.038	7.9	93	0.00
61	T	1,2-Dibromoethane	50.000	45.939	8.1	93	0.00
62	S	4-Bromofluorobenzene	50.000	49.477	1.0	95	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64	T	Tetrachloroethene	50.000	46.410	7.2	95	0.00
65	PM	Chlorobenzene	50.000	45.939	8.1	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	46.150	7.7	97	0.00
67	C	Ethyl Benzene	50.000	46.903	6.2#	96	0.00
68	T	m/p-Xylenes	100.000	93.364	6.6	97	0.00
69	T	o-Xylene	50.000	46.329	7.3	95	0.00
70	T	Styrene	50.000	46.483	7.0	95	0.00
71	P	Bromoform	50.000	45.378	9.2	91	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	45.907	8.2	97	0.00
74	T	N-amyl acetate	50.000	44.325	11.3	84	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	43.757	12.5	89	0.00
76	T	1,2,3-Trichloropropane	50.000	46.769	6.5	113	0.00
77	T	Bromobenzene	50.000	45.334	9.3	94	0.00
78	T	n-propylbenzene	50.000	45.511	9.0	95	0.00
79	T	2-Chlorotoluene	50.000	45.505	9.0	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	45.579	8.8	95	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	44.751	10.5	88	0.00
82	T	4-Chlorotoluene	50.000	44.767	10.5	94	0.00
83	T	tert-Butylbenzene	50.000	45.437	9.1	96	0.00
84	T	1,2,4-Trimethylbenzene	50.000	45.622	8.8	95	0.00
85	T	sec-Butylbenzene	50.000	45.937	8.1	97	0.00
86	T	p-Isopropyltoluene	50.000	46.139	7.7	96	0.00
87	T	1,3-Dichlorobenzene	50.000	44.987	10.0	94	0.00
88	T	1,4-Dichlorobenzene	50.000	44.807	10.4	94	0.00
89	T	n-Butylbenzene	50.000	45.909	8.2	95	0.00
90	T	Hexachloroethane	50.000	45.004	10.0	96	0.00
91	T	1,2-Dichlorobenzene	50.000	44.557	10.9	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	43.174	13.7	84	0.00
93	T	1,2,4-Trichlorobenzene	50.000	45.230	9.5	90	0.00
94	T	Hexachlorobutadiene	50.000	43.878	12.2	87	0.00
95	T	Naphthalene	50.000	44.679	10.6	83	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020479.D
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Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY120224

Quant Time: Dec 02 14:49:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
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	44.663	10.7	87	0.00

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

Raw Data: **VY020475.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5026 SAS No.: P5026 SDG No.: P5026

Instrument ID: MSVOA_Y Calibration Date/Time: 12/02/2024 10:24

Lab File ID: VY020475.D Init. Calib. Date(s): 12/02/2024 12/02/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:16 11:09

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.488	0.527		7.99	
Chloromethane	0.494	0.525		6.28	
Vinyl Chloride	0.503	0.540		7.36	
Bromomethane	0.295	0.307		4.07	
Chloroethane	0.309	0.317		2.59	
Trichlorofluoromethane	0.943	0.971		2.97	
1,1,2-Trichlorotrifluoroethane	0.549	0.551		0.36	
1,1-Dichloroethene	0.519	0.534		2.89	
Acetone	0.126	0.146		15.87	
Carbon Disulfide	1.486	1.660		11.71	
Methyl tert-butyl Ether	1.326	1.358		2.41	
Methyl Acetate	0.269	0.279		3.72	
Methylene Chloride	0.538	0.537		-0.19	
trans-1,2-Dichloroethene	0.576	0.580		0.69	
1,1-Dichloroethane	1.108	1.092		-1.44	
Cyclohexane	1.002	0.999		-0.3	
2-Butanone	0.160	0.179		11.88	
Carbon Tetrachloride	0.634	0.649		2.37	
cis-1,2-Dichloroethene	0.673	0.675		0.3	
Bromochloromethane	0.414	0.445		7.49	
Chloroform	1.137	1.111		-2.29	
1,1,1-Trichloroethane	1.095	1.084		-1	
Methylcyclohexane	0.660	0.693		5	
Benzene	1.567	1.586		1.21	
1,2-Dichloroethane	0.412	0.428		3.88	
Trichloroethene	0.386	0.388		0.52	
1,2-Dichloropropane	0.367	0.360		-1.91	
Bromodichloromethane	0.535	0.531		-0.75	
4-Methyl-2-Pentanone	0.210	0.225		7.14	
Toluene	0.978	0.995		1.74	
t-1,3-Dichloropropene	0.480	0.496		3.33	
cis-1,3-Dichloropropene	0.568	0.581		2.29	
1,1,2-Trichloroethane	0.242	0.247		2.07	
2-Hexanone	0.152	0.172		13.16	
Dibromochloromethane	0.337	0.346		2.67	
1,2-Dibromoethane	0.222	0.227		2.25	
Tetrachloroethene	0.422	0.420		-0.47	
Chlorobenzene	1.253	1.233		-1.6	

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

Raw Data: **VY020475.D**

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P5026 SAS No.: P5026 SDG No.: P5026

Instrument ID: MSVOA_Y Calibration Date/Time: 12/02/2024 10:24

Lab File ID: VY020475.D Init. Calib. Date(s): 12/02/2024 12/02/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:16 11:09

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.349	2.344		-0.21	
m/p-Xylenes	0.860	0.848		-1.39	
o-Xylene	0.806	0.805		-0.12	
Styrene	1.344	1.347		0.22	
Bromoform	0.226	0.230		1.77	
Isopropylbenzene	4.838	4.571		-5.52	
1,1,2,2-Tetrachloroethane	0.696	0.685		-1.58	
1,3-Dichlorobenzene	1.932	1.846		-4.45	
1,4-Dichlorobenzene	1.892	1.809		-4.39	
1,2-Dichlorobenzene	1.639	1.579		-3.66	
1,2-Dibromo-3-Chloropropane	0.105	0.108		2.86	
1,2,4-Trichlorobenzene	0.921	0.921		0	
1,2,3-Trichlorobenzene	0.743	0.759		2.15	
1,2-Dichloroethane-d4	0.509	0.557		9.43	
Dibromofluoromethane	0.315	0.346		9.84	
Toluene-d8	1.199	1.320		10.09	
4-Bromofluorobenzene	0.419	0.451		7.64	

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\VY120224\
Data File : VY020475.D
Acq On : 02 Dec 2024 10:24
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 14:35:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	155772	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	239903	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	199039	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.353	152	95193	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	86839	54.815	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.620%			
35) Dibromofluoromethane	7.646	113	83085	55.012	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.020%			
50) Toluene-d8	10.115	98	316633	55.057	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 110.120%			
62) 4-Bromofluorobenzene	12.414	95	108310	53.849	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 107.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	82109	54.038	ug/l	98
3) Chloromethane	2.080	50	81717	53.174	ug/l	96
4) Vinyl Chloride	2.214	62	84139	53.640	ug/l	95
5) Bromomethane	2.611	94	47831	51.970	ug/l	100
6) Chloroethane	2.745	64	49450	51.435	ug/l	97
7) Trichlorofluoromethane	3.074	101	151188	51.463	ug/l	99
8) Diethyl Ether	3.470	74	41546	49.912	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.830	101	85775	50.109	ug/l	98
10) Methyl Iodide	4.019	142	103373	53.794	ug/l	95
11) Tert butyl alcohol	4.878	59	26061	253.592	ug/l #	86
12) 1,1-Dichloroethene	3.806	96	83132	51.410	ug/l	94
13) Acrolein	3.665	56	21623	224.729	ug/l	98
14) Allyl chloride	4.403	41	146862	50.923	ug/l	96
15) Acrylonitrile	5.074	53	90066	259.690	ug/l	99
16) Acetone	3.885	43	113882	289.103	ug/l	99
17) Carbon Disulfide	4.123	76	258579	55.872	ug/l	99
18) Methyl Acetate	4.403	43	43429	51.872	ug/l	99
19) Methyl tert-butyl Ether	5.135	73	211544	51.227	ug/l	99
20) Methylene Chloride	4.635	84	83720	49.961	ug/l	97
21) trans-1,2-Dichloroethene	5.135	96	90361	50.311	ug/l	97
22) Diisopropyl ether	6.031	45	289358	50.455	ug/l	98
23) Vinyl Acetate	5.976	43	800176	263.789	ug/l	99
24) 1,1-Dichloroethane	5.933	63	170029	49.246	ug/l	99
25) 2-Butanone	6.909	43	139484	280.419	ug/l	99
26) 2,2-Dichloropropane	6.903	77	160984	49.297	ug/l	99
27) cis-1,2-Dichloroethene	6.903	96	105171	50.149	ug/l	97
28) Bromochloromethane	7.256	49	69292	53.742	ug/l	96
29) Tetrahydrofuran	7.274	42	76324	268.967	ug/l	99
30) Chloroform	7.433	83	173063	48.839	ug/l	95
31) Cyclohexane	7.713	56	155692	49.879	ug/l	93
32) 1,1,1-Trichloroethane	7.634	97	168843	49.484	ug/l	97
36) 1,1-Dichloropropene	7.847	75	131920	51.724	ug/l	99
37) Ethyl Acetate	7.000	43	52541	51.999	ug/l	98
38) Carbon Tetrachloride	7.829	117	155722	51.157	ug/l	97
39) Methylcyclohexane	9.116	83	166363	52.566	ug/l	97
40) Benzene	8.091	78	380413	50.588	ug/l	100

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Acq On : 02 Dec 2024 10:24
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Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	32093	29.260	ug/l		98
42) 1,2-Dichloroethane	8.171	62	102637	51.944	ug/l		99
43) Isopropyl Acetate	8.207	43	108207	53.033	ug/l		97
44) Trichloroethene	8.872	130	93065	50.203	ug/l		99
45) 1,2-Dichloropropane	9.146	63	86411	49.106	ug/l		99
46) Dibromomethane	9.237	93	44234	50.770	ug/l		98
47) Bromodichloromethane	9.433	83	127504	49.671	ug/l		98
48) Methyl methacrylate	9.231	41	50583	53.165	ug/l		96
49) 1,4-Dioxane	9.244	88	9081	1090.417	ug/l		97
51) 4-Methyl-2-Pentanone	10.006	43	270025	267.981	ug/l		99
52) Toluene	10.176	92	238703	50.878	ug/l		99
53) t-1,3-Dichloropropene	10.402	75	118994	51.634	ug/l		100
54) cis-1,3-Dichloropropene	9.865	75	139317	51.152	ug/l		97
55) 1,1,2-Trichloroethane	10.579	97	59217	50.951	ug/l		98
56) Ethyl methacrylate	10.445	69	88660	53.914	ug/l		94
57) 1,3-Dichloropropane	10.725	76	106282	51.068	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.719	63	239007	310.414	ug/l		97
59) 2-Hexanone	10.768	43	206410	283.955	ug/l		98
60) Dibromochloromethane	10.920	129	83049	51.325	ug/l		99
61) 1,2-Dibromoethane	11.024	107	54480	51.259	ug/l		99
64) Tetrachloroethene	10.652	164	83677	49.754	ug/l		97
65) Chlorobenzene	11.450	112	245417	49.192	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.524	131	86377	48.819	ug/l		98
67) Ethyl Benzene	11.524	91	466609	49.897	ug/l		100
68) m/p-Xylenes	11.633	106	337704	98.621	ug/l		97
69) o-Xylene	11.963	106	160324	49.976	ug/l		99
70) Styrene	11.975	104	268033	50.080	ug/l		99
71) Bromoform	12.139	173	45872	50.993	ug/l	#	99
73) Isopropylbenzene	12.261	105	435110	47.241	ug/l		99
74) N-amyl acetate	12.078	43	94663	52.438	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.511	83	65184	49.213	ug/l		98
76) 1,2,3-Trichloropropane	12.560	75	40109m	22.311	ug/l		
77) Bromobenzene	12.542	156	91501	47.972	ug/l		98
78) n-propylbenzene	12.603	91	520871	47.765	ug/l		99
79) 2-Chlorotoluene	12.688	91	290546	47.218	ug/l		100
80) 1,3,5-Trimethylbenzene	12.743	105	352940	47.818	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.310	75	23979	50.738	ug/l		97
82) 4-Chlorotoluene	12.786	91	298495	47.536	ug/l		98
83) tert-Butylbenzene	13.005	119	315064	47.214	ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	343348	47.860	ug/l		100
85) sec-Butylbenzene	13.182	105	452869	47.354	ug/l		99
86) p-Isopropyltoluene	13.298	119	378563	47.902	ug/l		99
87) 1,3-Dichlorobenzene	13.298	146	175749	47.777	ug/l		100
88) 1,4-Dichlorobenzene	13.377	146	172249	47.832	ug/l		100
89) n-Butylbenzene	13.627	91	352227	48.055	ug/l		99
90) Hexachloroethane	13.889	117	72237	46.902	ug/l		97
91) 1,2-Dichlorobenzene	13.670	146	150345	48.195	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	10309	51.412	ug/l		99
93) 1,2,4-Trichlorobenzene	14.932	180	87676	49.983	ug/l		100
94) Hexachlorobutadiene	15.029	225	61454	50.079	ug/l		98
95) Naphthalene	15.151	128	152909	53.869	ug/l		99
96) 1,2,3-Trichlorobenzene	15.340	180	72218	51.023	ug/l		99

Sample Results: **VY020475.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020475.D
Acq On : 02 Dec 2024 10:24
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 14:35:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

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

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

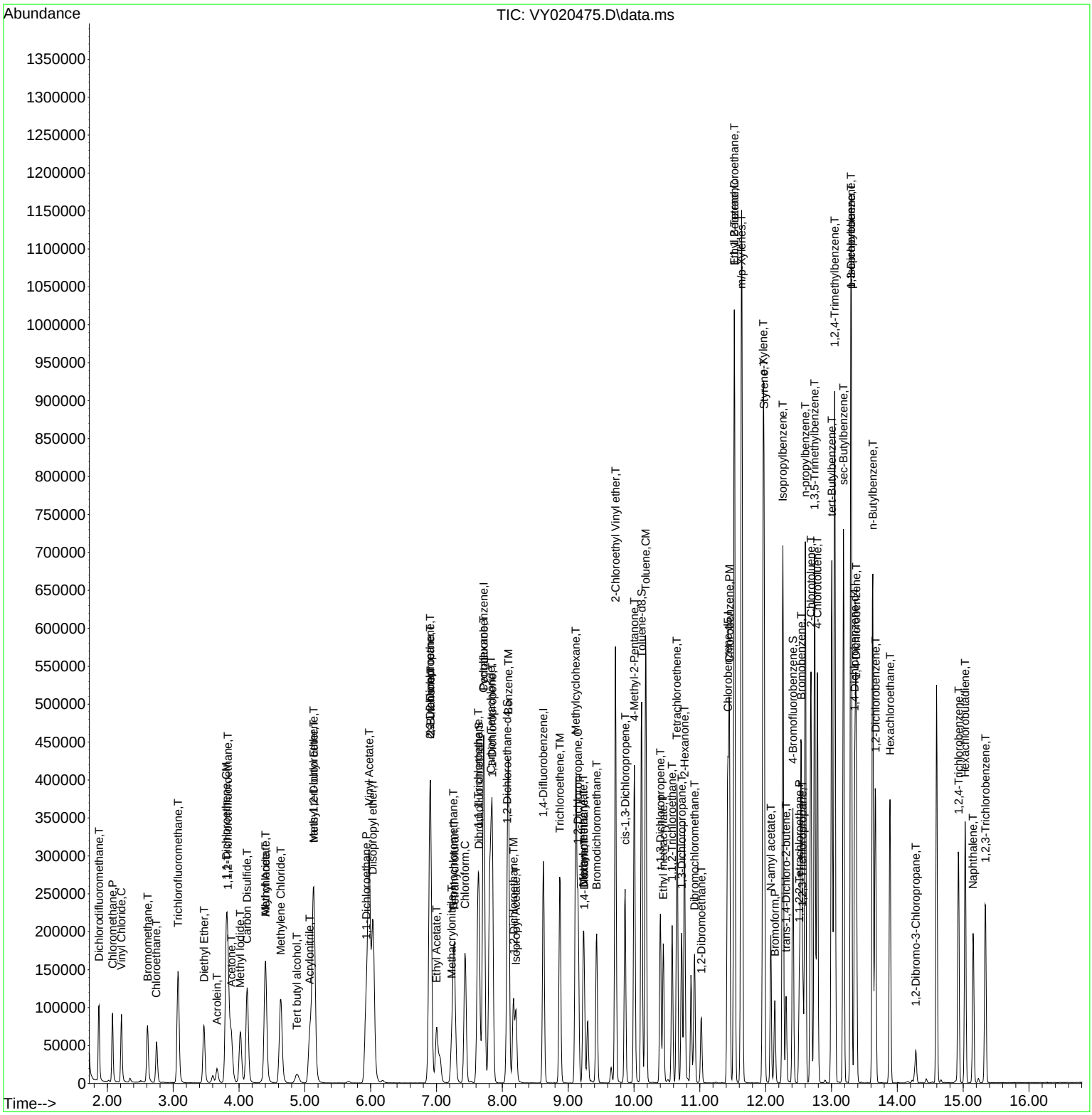
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020475.D
Acq On : 02 Dec 2024 10:24
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 14:35:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:33:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024



QC SAMPLE DATA

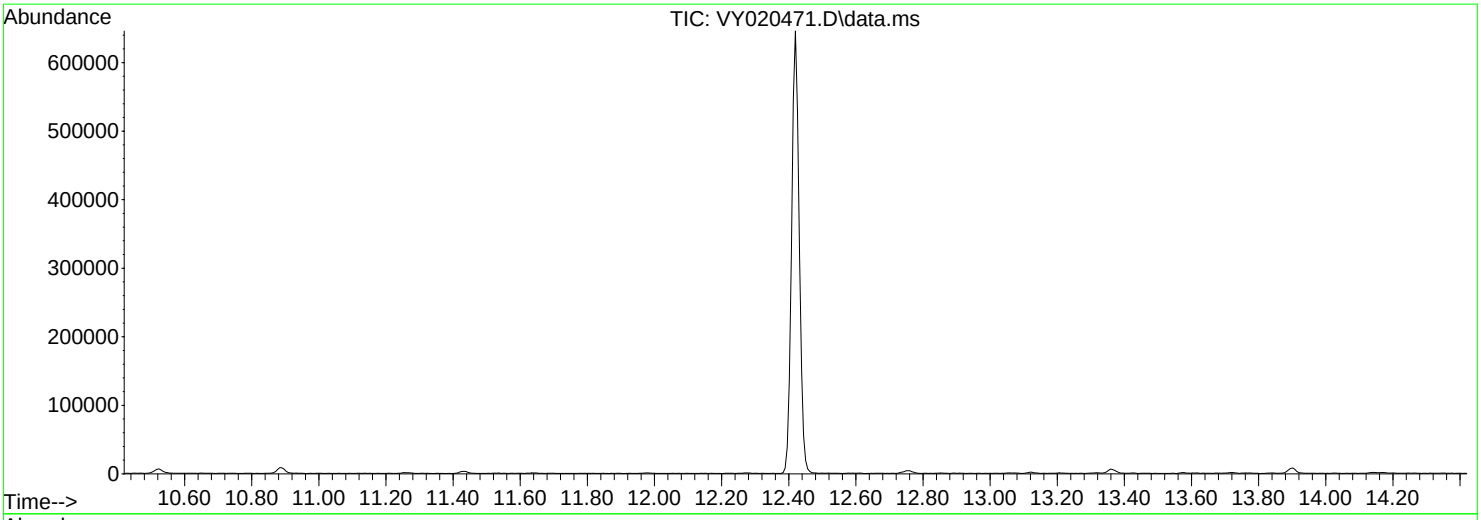
Sample Results: **VY020471.D**

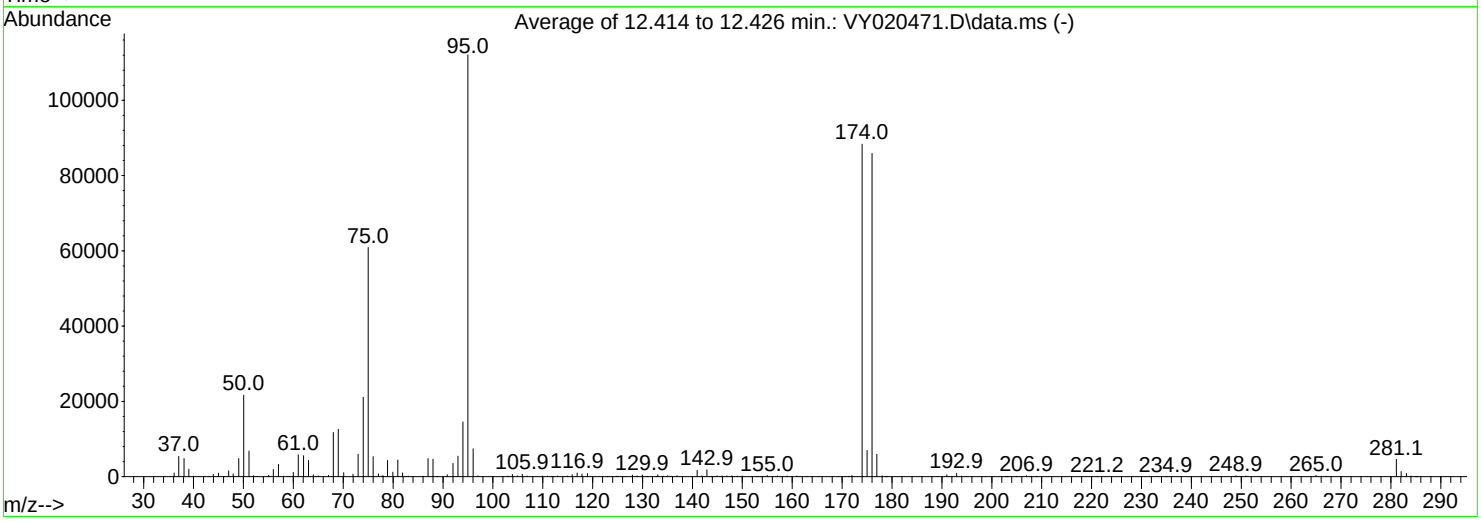
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020471.D
Acq On : 02 Dec 2024 08:23
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Title : SW846 8260
Last Update : Tue Dec 03 01:39:23 2024





AutoFind: Scans 1754, 1755, 1756; Background Corrected with Scan 1746

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	21643	PASS
75	95	30	60	54.3	60867	PASS
95	95	100	100	100.0	112075	PASS
96	95	5	9	6.6	7403	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.8	88365	PASS
175	174	5	9	7.9	6989	PASS
176	174	95	101	97.2	85864	PASS
177	176	5	9	6.9	5960	PASS

Raw Data: **VY020480.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	Hamilton	Date Received:	
Client Sample ID:	VY1202SBL01	SDG No.:	P5026
Lab Sample ID:	VY1202SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020480.D	1		12/02/24 12:54	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.0017	U	0.0017	0.0050	mg/Kg
74-87-3	Chloromethane	0.0012	U	0.0012	0.0050	mg/Kg
75-01-4	Vinyl Chloride	0.00077	U	0.00077	0.0050	mg/Kg
74-83-9	Bromomethane	0.0010	U	0.0010	0.0050	mg/Kg
75-00-3	Chloroethane	0.0010	U	0.0010	0.0050	mg/Kg
75-69-4	Trichlorofluoromethane	0.00091	U	0.00091	0.0050	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0011	U	0.0011	0.0050	mg/Kg
75-35-4	1,1-Dichloroethene	0.00078	U	0.00078	0.0050	mg/Kg
67-64-1	Acetone	0.0062	U	0.0062	0.025	mg/Kg
75-15-0	Carbon Disulfide	0.0013	U	0.0013	0.0050	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.00067	U	0.00067	0.0050	mg/Kg
79-20-9	Methyl Acetate	0.0018	U	0.0018	0.0050	mg/Kg
75-09-2	Methylene Chloride	0.0034	U	0.0034	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.00084	U	0.00084	0.0050	mg/Kg
75-34-3	1,1-Dichloroethane	0.00063	U	0.00063	0.0050	mg/Kg
110-82-7	Cyclohexane	0.00069	U	0.00069	0.0050	mg/Kg
78-93-3	2-Butanone	0.0057	U	0.0057	0.025	mg/Kg
56-23-5	Carbon Tetrachloride	0.00087	U	0.00087	0.0050	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.00061	U	0.00061	0.0050	mg/Kg
74-97-5	Bromochloromethane	0.0024	U	0.0024	0.0050	mg/Kg
67-66-3	Chloroform	0.00067	U	0.00067	0.0050	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.00078	U	0.00078	0.0050	mg/Kg
108-87-2	Methylcyclohexane	0.00087	U	0.00087	0.0050	mg/Kg
71-43-2	Benzene	0.00072	U	0.00072	0.0050	mg/Kg
107-06-2	1,2-Dichloroethane	0.00061	U	0.00061	0.0050	mg/Kg
79-01-6	Trichloroethene	0.00075	U	0.00075	0.0050	mg/Kg
78-87-5	1,2-Dichloropropane	0.00066	U	0.00066	0.0050	mg/Kg
75-27-4	Bromodichloromethane	0.00056	U	0.00056	0.0050	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.0044	U	0.0044	0.025	mg/Kg
108-88-3	Toluene	0.00067	U	0.00067	0.0050	mg/Kg

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	Hamilton	Date Received:	
Client Sample ID:	VY1202SBL01	SDG No.:	P5026
Lab Sample ID:	VY1202SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020480.D	1		12/02/24 12:54	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.00060	U	0.00060	0.0050	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.00057	U	0.00057	0.0050	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.00084	U	0.00084	0.0050	mg/Kg
591-78-6	2-Hexanone	0.0048	U	0.0048	0.025	mg/Kg
124-48-1	Dibromochloromethane	0.00065	U	0.00065	0.0050	mg/Kg
106-93-4	1,2-Dibromoethane	0.00079	U	0.00079	0.0050	mg/Kg
127-18-4	Tetrachloroethene	0.00089	U	0.00089	0.0050	mg/Kg
108-90-7	Chlorobenzene	0.00074	U	0.00074	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.00062	U	0.00062	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.0014	U	0.0014	0.010	mg/Kg
95-47-6	o-Xylene	0.00070	U	0.00070	0.0050	mg/Kg
100-42-5	Styrene	0.00060	U	0.00060	0.0050	mg/Kg
75-25-2	Bromoform	0.00081	U	0.00081	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.00067	U	0.00067	0.0050	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.0050	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.00074	U	0.00074	0.0050	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.00080	U	0.00080	0.0050	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.00059	U	0.00059	0.0050	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0016	U	0.0016	0.0050	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.00079	U	0.00079	0.0050	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.00078	U	0.00078	0.0050	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		50 - 163	115%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		54 - 147	99%	SPK: 50
2037-26-5	Toluene-d8	50.5		58 - 134	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.5		29 - 146	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	166000	7.726			
540-36-3	1,4-Difluorobenzene	314000	8.628			
3114-55-4	Chlorobenzene-d5	284000	11.426			
3855-82-1	1,4-Dichlorobenzene-d4	97600	13.359			

Raw Data: **VY020480.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	Hamilton	Date Received:	
Client Sample ID:	VY1202SBL01	SDG No.:	P5026
Lab Sample ID:	VY1202SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020480.D	1		12/02/24 12:54	VY120224

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\VY120224\
Data File : VY020480.D
Acq On : 02 Dec 2024 12:54
Operator : SY/MD
Sample : VY1202SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBL01

Quant Time: Dec 02 14:50:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.726	168	165618	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.628	114	314207	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.426	117	283582	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.359	152	97585	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.079	65	96612	57.358	ug/l	0.02
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.720%			
35) Dibromofluoromethane	7.652	113	98098	49.592	ug/l	0.02
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.180%			
50) Toluene-d8	10.115	98	380303	50.490	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.980%			
62) 4-Bromofluorobenzene	12.414	95	117100	44.451	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 88.900%			
Target Compounds						Qvalue

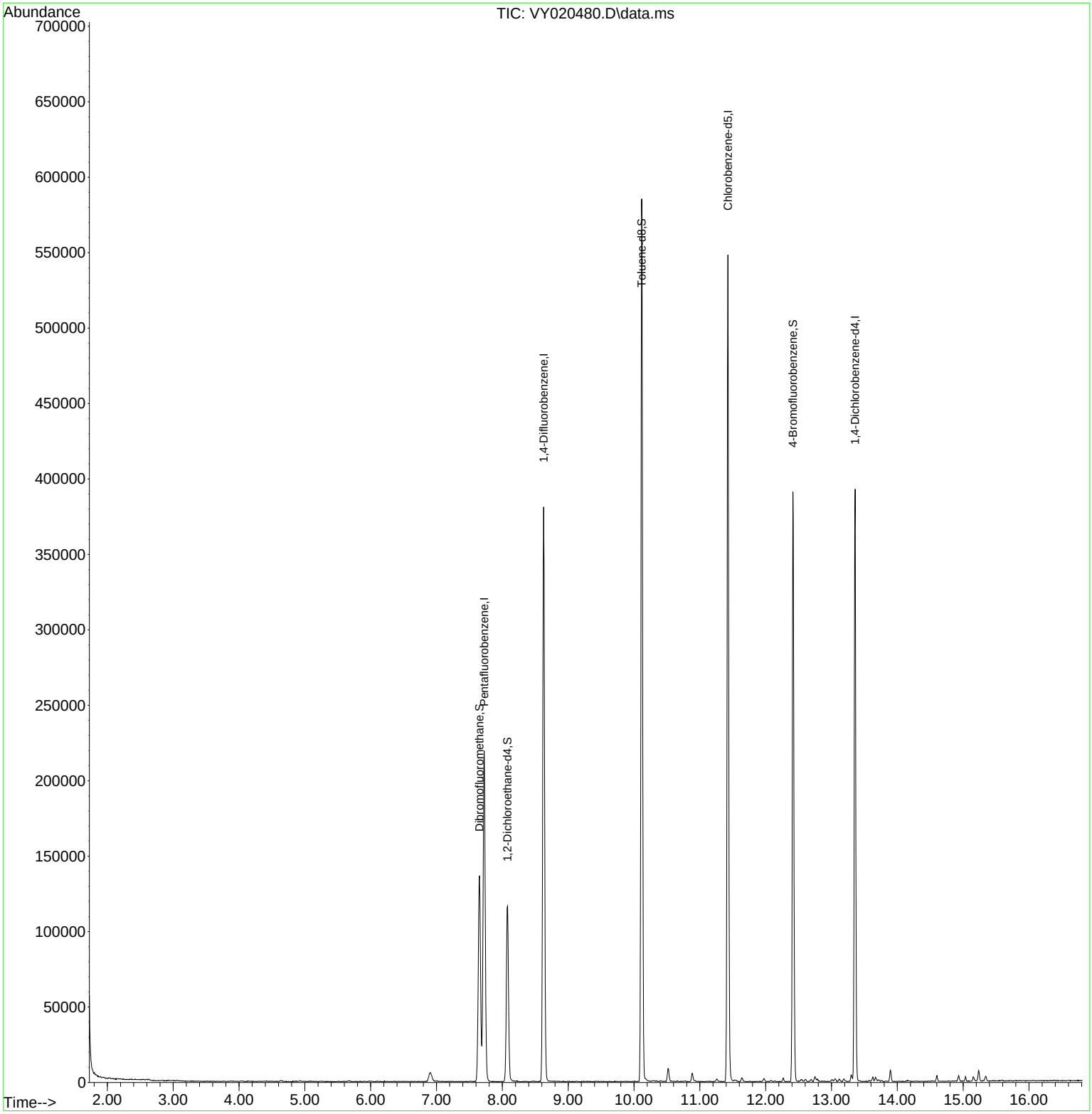
(#) = qualifier out of range (m) = manual integration (+) = signals summed

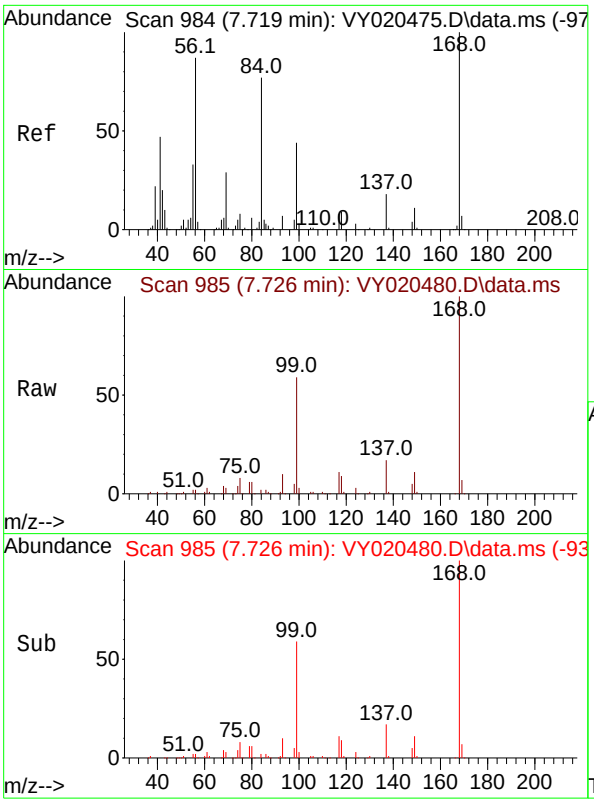
Sample Results: **VY020480.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020480.D
Acq On : 02 Dec 2024 12:54
Operator : SY/MD
Sample : VY1202SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBL01

Quant Time: Dec 02 14:50:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration



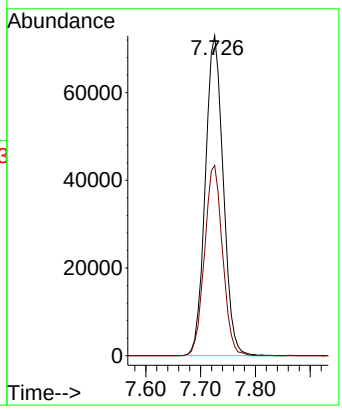


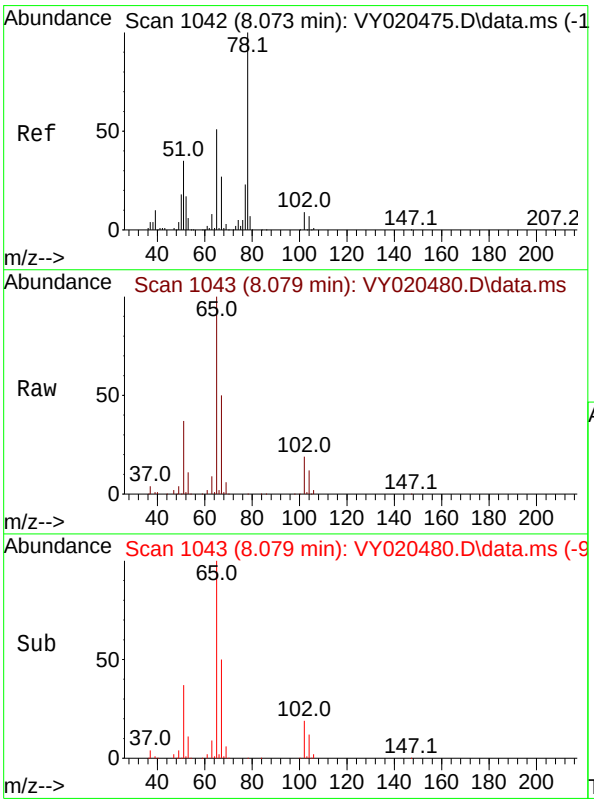
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.726 min Scan# 9
Delta R.T. 0.013 min
Lab File: VY020480.D
Acq: 02 Dec 2024 12:54

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBL01

Tgt Ion:168 Resp: 165618

Ion	Ratio	Lower	Upper
168	100		
99	59.5	46.6	69.8

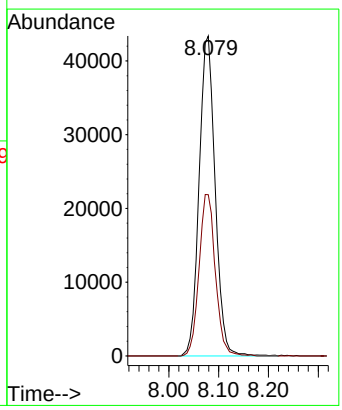


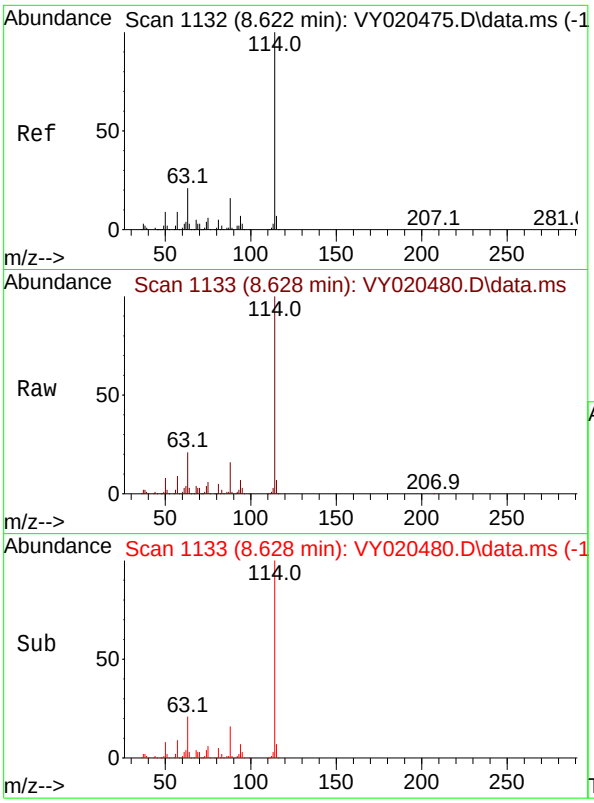


#33
1,2-Dichloroethane-d4
Concen: 57.358 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.018 min
Lab File: VY020480.D
Acq: 02 Dec 2024 12:54

Tgt Ion: 65 Resp: 96612

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	105.8



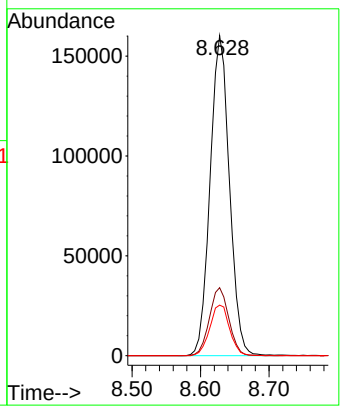


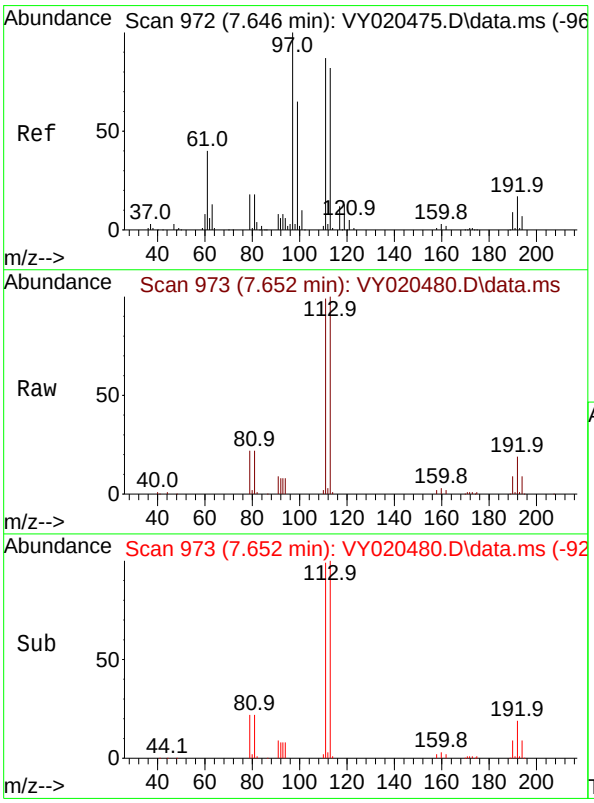
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.628 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY020480.D
Acq: 02 Dec 2024 12:54

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBL01

Tgt Ion:114 Resp: 314207

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	44.8
88	15.8	0.0	32.0

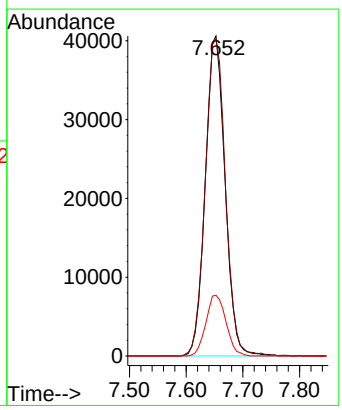


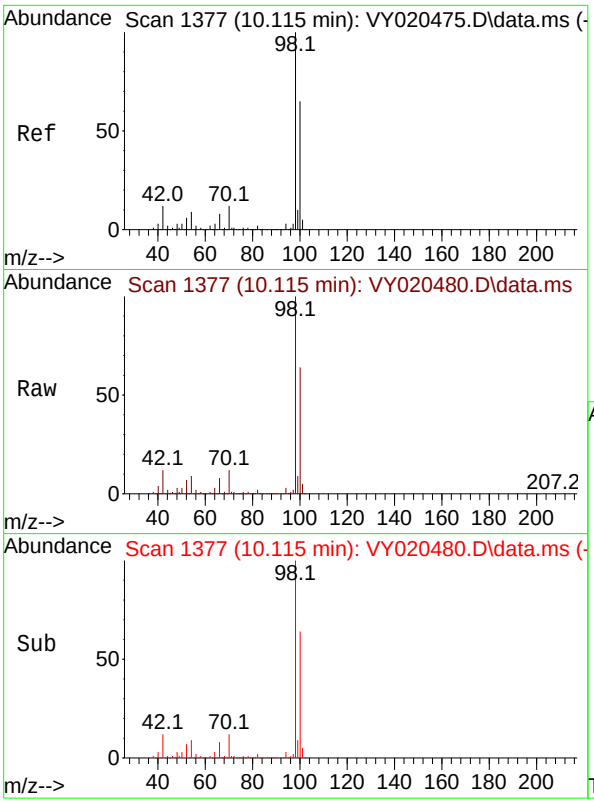


#35
Dibromofluoromethane
Concen: 49.592 ug/l
RT: 7.652 min Scan# 973
Delta R.T. 0.018 min
Lab File: VY020480.D
Acq: 02 Dec 2024 12:54

Tgt Ion:113 Resp: 98098

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.4	122.0
192	19.3	15.1	22.7



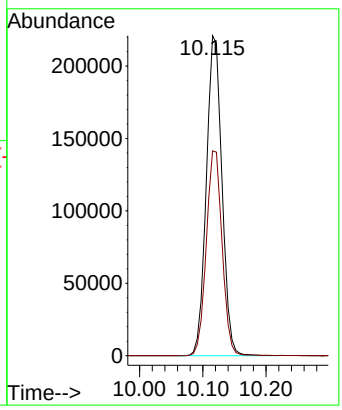


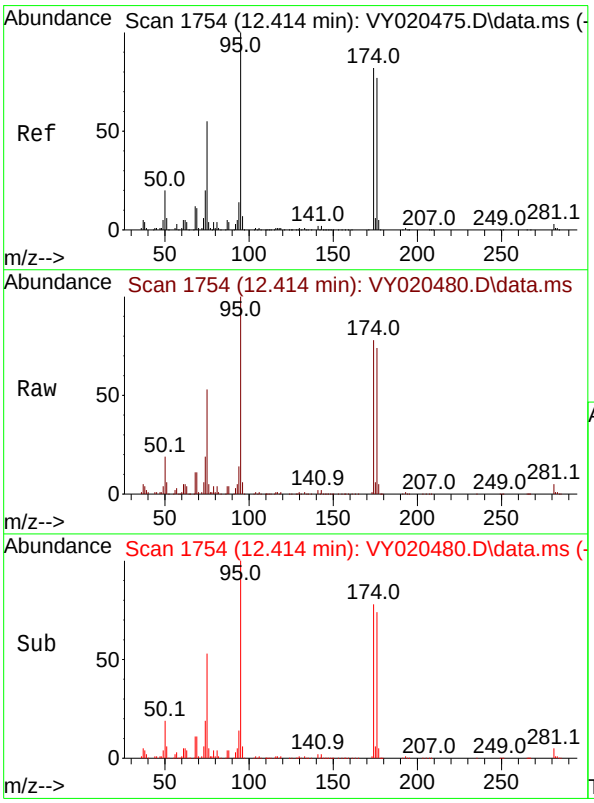
#50
Toluene-d8
Concen: 50.490 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020480.D
Acq: 02 Dec 2024 12:54

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBL01

Tgt Ion: 98 Resp: 380303

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.3	76.9

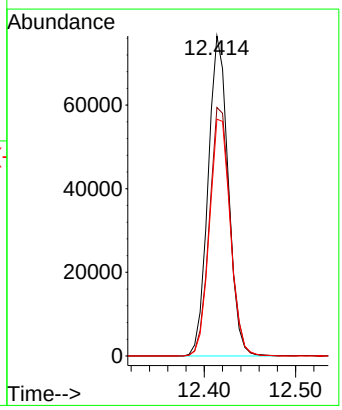


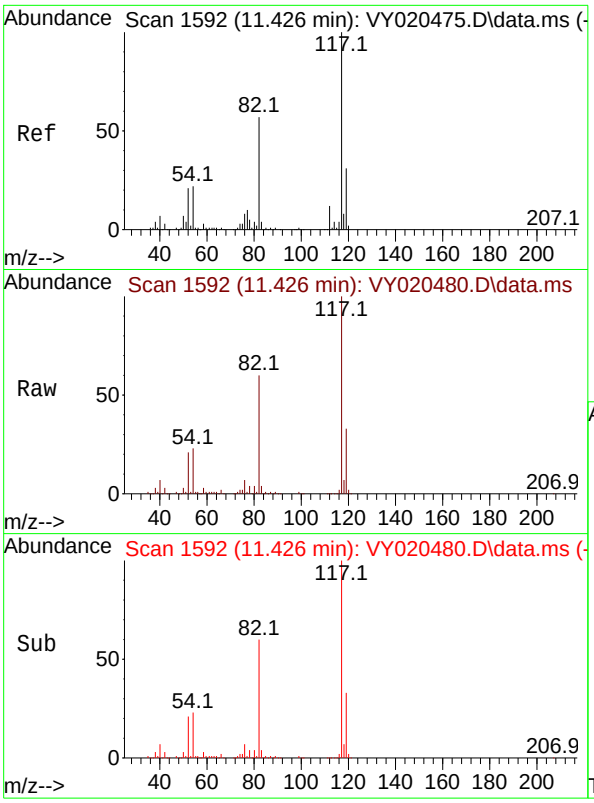


#62
4-Bromofluorobenzene
Concen: 44.451 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.012 min
Lab File: VY020480.D
Acq: 02 Dec 2024 12:54

Tgt Ion: 95 Resp: 117100

Ion	Ratio	Lower	Upper
95	100		
174	80.3	0.0	156.8
176	76.8	0.0	152.0



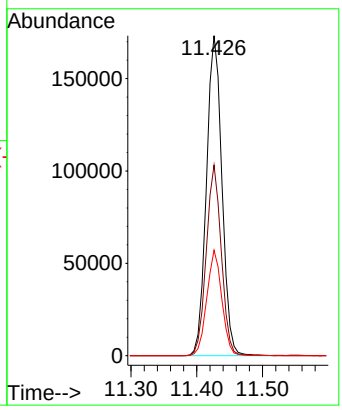


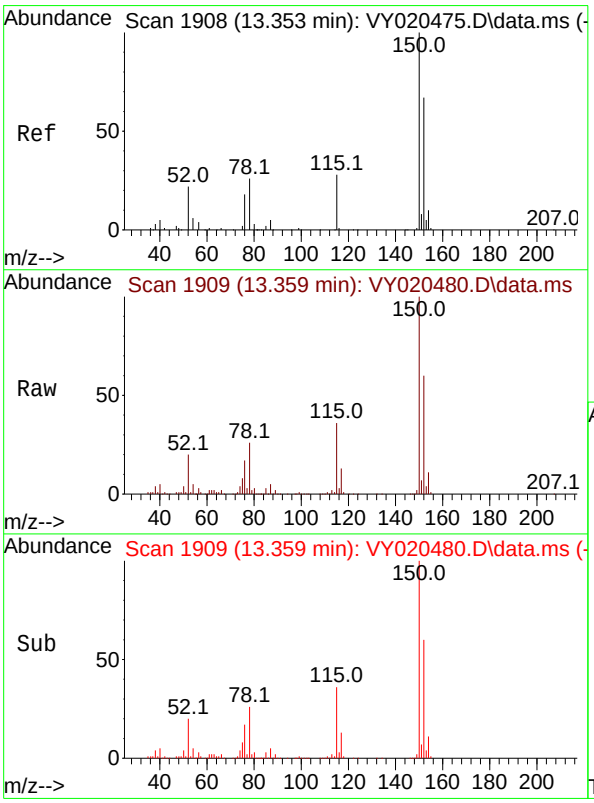
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY020480.D
Acq: 02 Dec 2024 12:54

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBL01

Tgt Ion:117 Resp: 283582

Ion	Ratio	Lower	Upper
117	100		
82	59.6	48.2	72.4
119	33.0	25.8	38.8

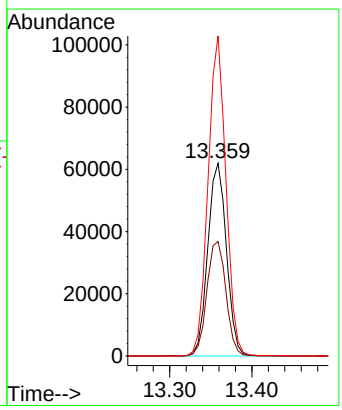




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.012 min
Lab File: VY020480.D
Acq: 02 Dec 2024 12:54

Tgt Ion:152 Resp: 97585

Ion	Ratio	Lower	Upper
152	100		
115	60.7	30.0	90.0
150	158.9	0.0	348.2



Sample Results: **VY020480.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020480.D
Acq On : 02 Dec 2024 12:54
Operator : SY/MD
Sample : VY1202SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBL01

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\82Y120224S.M
Title : SW846 8260

Signal : TIC: VY020480.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.903	842	850	864	rBV	5885	19369	1.92%	0.382%
2	7.652	963	973	979	rBV	136463	333671	33.01%	6.581%
3	7.726	979	985	1000	rVB	219107	501425	49.61%	9.890%
4	8.079	1032	1043	1058	rBV	116339	262476	25.97%	5.177%
5	8.628	1125	1133	1146	rBV	380732	747466	73.95%	14.742%
6	10.115	1370	1377	1387	rBV	585068	1010781	100.00%	19.936%
7	10.518	1437	1443	1450	rBV	8763	15919	1.57%	0.314%
8	10.884	1497	1503	1510	rBV3	5649	10410	1.03%	0.205%
9	11.426	1585	1592	1606	rBV	547903	893580	88.40%	17.624%
10	12.414	1747	1754	1765	rBV2	390945	636416	62.96%	12.552%
11	13.359	1903	1909	1918	rVB	392315	615639	60.91%	12.142%
12	13.895	1991	1997	2004	rVB2	7485	11926	1.18%	0.235%
13	15.236	2210	2217	2225	rBV2	7010	11158	1.10%	0.220%

Sum of corrected areas: 5070236

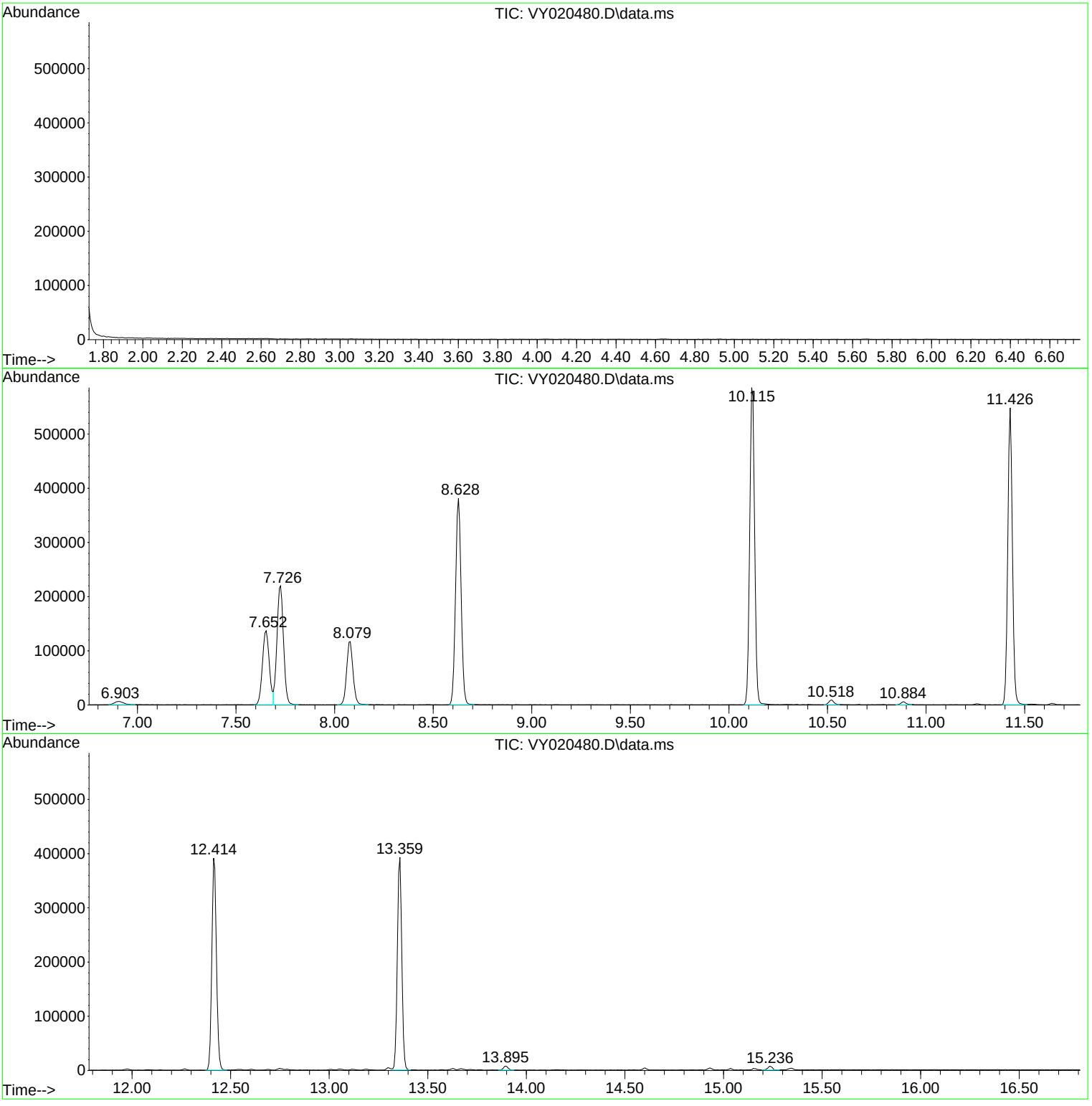
Sample Results: **VY020480.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020480.D
Acq On : 02 Dec 2024 12:54
Operator : SY/MD
Sample : VY1202SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY020480.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020480.D
Acq On : 02 Dec 2024 12:54
Operator : SY/MD
Sample : VY1202SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.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\VY120224\
Data File : VY020480.D
Acq On : 02 Dec 2024 12:54
Operator : SY/MD
Sample : VY1202SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260

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

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

Raw Data: **VY020481.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	Hamilton	Date Received:	
Client Sample ID:	VY1202SBS01	SDG No.:	P5026
Lab Sample ID:	VY1202SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020481.D	1		12/02/24 13:26	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.017		0.0017	0.0050	mg/Kg
74-87-3	Chloromethane	0.017		0.0012	0.0050	mg/Kg
75-01-4	Vinyl Chloride	0.017		0.00077	0.0050	mg/Kg
74-83-9	Bromomethane	0.018		0.0010	0.0050	mg/Kg
75-00-3	Chloroethane	0.018		0.0010	0.0050	mg/Kg
75-69-4	Trichlorofluoromethane	0.018		0.00091	0.0050	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.019		0.0011	0.0050	mg/Kg
75-35-4	1,1-Dichloroethene	0.018		0.00078	0.0050	mg/Kg
67-64-1	Acetone	0.082		0.0062	0.025	mg/Kg
75-15-0	Carbon Disulfide	0.016		0.0013	0.0050	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.019		0.00067	0.0050	mg/Kg
79-20-9	Methyl Acetate	0.019		0.0018	0.0050	mg/Kg
75-09-2	Methylene Chloride	0.018		0.0034	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.018		0.00084	0.0050	mg/Kg
75-34-3	1,1-Dichloroethane	0.018		0.00063	0.0050	mg/Kg
110-82-7	Cyclohexane	0.018		0.00069	0.0050	mg/Kg
78-93-3	2-Butanone	0.086		0.0057	0.025	mg/Kg
56-23-5	Carbon Tetrachloride	0.019		0.00087	0.0050	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.019		0.00061	0.0050	mg/Kg
74-97-5	Bromochloromethane	0.017		0.0024	0.0050	mg/Kg
67-66-3	Chloroform	0.018		0.00067	0.0050	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.019		0.00078	0.0050	mg/Kg
108-87-2	Methylcyclohexane	0.019		0.00087	0.0050	mg/Kg
71-43-2	Benzene	0.018		0.00072	0.0050	mg/Kg
107-06-2	1,2-Dichloroethane	0.019		0.00061	0.0050	mg/Kg
79-01-6	Trichloroethene	0.019		0.00075	0.0050	mg/Kg
78-87-5	1,2-Dichloropropane	0.018		0.00066	0.0050	mg/Kg
75-27-4	Bromodichloromethane	0.019		0.00056	0.0050	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.092		0.0044	0.025	mg/Kg
108-88-3	Toluene	0.019		0.00067	0.0050	mg/Kg

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	Hamilton	Date Received:	
Client Sample ID:	VY1202SBS01	SDG No.:	P5026
Lab Sample ID:	VY1202SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020481.D	1		12/02/24 13:26	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.018		0.00060	0.0050	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.018		0.00057	0.0050	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.019		0.00084	0.0050	mg/Kg
591-78-6	2-Hexanone	0.087		0.0048	0.025	mg/Kg
124-48-1	Dibromochloromethane	0.019		0.00065	0.0050	mg/Kg
106-93-4	1,2-Dibromoethane	0.018		0.00079	0.0050	mg/Kg
127-18-4	Tetrachloroethene	0.019		0.00089	0.0050	mg/Kg
108-90-7	Chlorobenzene	0.019		0.00074	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.019		0.00062	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.038		0.0014	0.010	mg/Kg
95-47-6	o-Xylene	0.019		0.00070	0.0050	mg/Kg
100-42-5	Styrene	0.019		0.00060	0.0050	mg/Kg
75-25-2	Bromoform	0.019		0.00081	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.019		0.00067	0.0050	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.018		0.0011	0.0050	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.019		0.00074	0.0050	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.019		0.00080	0.0050	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.019		0.00059	0.0050	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.018		0.0016	0.0050	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.018		0.00079	0.0050	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.019		0.00078	0.0050	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.6		50 - 163	111%	SPK: 50
1868-53-7	Dibromofluoromethane	56.7		54 - 147	113%	SPK: 50
2037-26-5	Toluene-d8	57.4		58 - 134	115%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.8		29 - 146	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	152000	7.719			
540-36-3	1,4-Difluorobenzene	236000	8.622			
3114-55-4	Chlorobenzene-d5	194000	11.426			
3855-82-1	1,4-Dichlorobenzene-d4	92200	13.353			

Raw Data: **VY020481.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	Hamilton	Date Received:	
Client Sample ID:	VY1202SBS01	SDG No.:	P5026
Lab Sample ID:	VY1202SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020481.D	1		12/02/24 13:26	VY120224

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\VY120224\
Data File : VY020481.D
Acq On : 02 Dec 2024 13:26
Operator : SY/MD
Sample : VY1202SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 14:50:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	152270	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	235744	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	194084	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.353	152	92222	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	86134	55.620	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.240%			
35) Dibromofluoromethane	7.646	113	84104	56.669	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 113.340%			
50) Toluene-d8	10.115	98	324152	57.359	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 114.720%			
62) 4-Bromofluorobenzene	12.414	95	110327	55.819	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 111.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	25519	17.181	ug/l	99
3) Chloromethane	2.080	50	25645	17.053	ug/l	97
4) Vinyl Chloride	2.214	62	26702	17.414	ug/l	98
5) Bromomethane	2.611	94	16067	17.859	ug/l	96
6) Chloroethane	2.751	64	16932	18.017	ug/l	98
7) Trichlorofluoromethane	3.074	101	52711	18.355	ug/l	98
8) Diethyl Ether	3.470	74	14791	18.178	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.830	101	31597	18.883	ug/l	97
10) Methyl Iodide	4.025	142	32310	17.201	ug/l	93
11) Tert butyl alcohol	4.897	59	9418	93.751	ug/l	96
12) 1,1-Dichloroethene	3.806	96	28605	18.097	ug/l	91
13) Acrolein	3.665	56	11299	120.132	ug/l	99
14) Allyl chloride	4.397	41	51659	18.324	ug/l	93
15) Acrylonitrile	5.086	53	31084	91.687	ug/l	97
16) Acetone	3.879	43	31545	81.922	ug/l	98
17) Carbon Disulfide	4.129	76	72909	16.116	ug/l	97
18) Methyl Acetate	4.403	43	15310	18.707	ug/l	99
19) Methyl tert-butyl Ether	5.135	73	74840	18.540	ug/l	100
20) Methylene Chloride	4.635	84	29596	18.068	ug/l	96
21) trans-1,2-Dichloroethene	5.135	96	31814	18.121	ug/l	93
22) Diisopropyl ether	6.037	45	107268	19.134	ug/l	99
23) Vinyl Acetate	5.976	43	271184	91.456	ug/l	98
24) 1,1-Dichloroethane	5.933	63	61873	18.333	ug/l	99
25) 2-Butanone	6.909	43	41585	85.525	ug/l	98
26) 2,2-Dichloropropane	6.896	77	58565	18.346	ug/l	99
27) cis-1,2-Dichloroethene	6.909	96	37835	18.456	ug/l	99
28) Bromochloromethane	7.262	49	21421	16.996	ug/l	93
29) Tetrahydrofuran	7.274	42	24781	89.337	ug/l	99
30) Chloroform	7.433	83	63354	18.290	ug/l	100
31) Cyclohexane	7.713	56	54315	17.801	ug/l #	89
32) 1,1,1-Trichloroethane	7.628	97	62490	18.736	ug/l	96
36) 1,1-Dichloropropene	7.848	75	46451	18.534	ug/l	98
37) Ethyl Acetate	7.000	43	18332	18.463	ug/l	98
38) Carbon Tetrachloride	7.835	117	56035	18.733	ug/l	96
39) Methylcyclohexane	9.116	83	57465	18.478	ug/l	95
40) Benzene	8.091	78	136212	18.433	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020481.D
Acq On : 02 Dec 2024 13:26
Operator : SY/MD
Sample : VY1202SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 14:50:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.244	41	10400	18.425	ug/l		95
42) 1,2-Dichloroethane	8.171	62	36515	18.806	ug/l		98
43) Isopropyl Acetate	8.207	43	36464	18.187	ug/l		95
44) Trichloroethene	8.872	130	34320	18.840	ug/l		93
45) 1,2-Dichloropropane	9.152	63	31844	18.416	ug/l		99
46) Dibromomethane	9.244	93	16067	18.766	ug/l		99
47) Bromodichloromethane	9.433	83	46738	18.529	ug/l		95
48) Methyl methacrylate	9.225	41	16950	18.129	ug/l		97
49) 1,4-Dioxane	9.244	88	3099	378.683	ug/l	#	90
51) 4-Methyl-2-Pentanone	10.006	43	91018	91.923	ug/l		99
52) Toluene	10.182	92	87273	18.930	ug/l		99
53) t-1,3-Dichloropropene	10.402	75	41445	18.301	ug/l		100
54) cis-1,3-Dichloropropene	9.865	75	49090	18.342	ug/l		99
55) 1,1,2-Trichloroethane	10.579	97	21933	19.204	ug/l		97
56) Ethyl methacrylate	10.445	69	29483	18.245	ug/l		94
57) 1,3-Dichloropropane	10.725	76	38609	18.879	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.719	63	70301	92.915	ug/l		99
59) 2-Hexanone	10.768	43	62386	87.338	ug/l		97
60) Dibromochloromethane	10.920	129	30000	18.867	ug/l		99
61) 1,2-Dibromoethane	11.024	107	19156	18.341	ug/l		98
64) Tetrachloroethene	10.658	164	31364	19.125	ug/l		89
65) Chlorobenzene	11.451	112	90716	18.647	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.524	131	31769	18.414	ug/l		100
67) Ethyl Benzene	11.530	91	171004	18.753	ug/l		99
68) m/p-Xylenes	11.640	106	125570	37.607	ug/l		100
69) o-Xylene	11.963	106	59199	18.925	ug/l		99
70) Styrene	11.975	104	97746	18.729	ug/l		98
71) Bromoform	12.139	173	16258	18.535	ug/l	#	99
73) Isopropylbenzene	12.261	105	165529	18.551	ug/l		100
74) N-amyl acetate	12.078	43	30207	17.272	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.511	83	23012	17.933	ug/l		99
76) 1,2,3-Trichloropropane	12.566	75	19035m	20.262	ug/l		
77) Bromobenzene	12.542	156	33750	18.264	ug/l		96
78) n-propylbenzene	12.603	91	198539	18.793	ug/l		99
79) 2-Chlorotoluene	12.688	91	109452	18.360	ug/l		99
80) 1,3,5-Trimethylbenzene	12.743	105	134606	18.824	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.310	75	7853	17.152	ug/l		97
82) 4-Chlorotoluene	12.786	91	109491	17.998	ug/l		100
83) tert-Butylbenzene	13.005	119	120909	18.702	ug/l		97
84) 1,2,4-Trimethylbenzene	13.048	105	129286	18.602	ug/l		99
85) sec-Butylbenzene	13.182	105	176389	19.038	ug/l		100
86) p-Isopropyltoluene	13.298	119	146972	19.196	ug/l		100
87) 1,3-Dichlorobenzene	13.298	146	66666	18.707	ug/l		98
88) 1,4-Dichlorobenzene	13.377	146	65550	18.789	ug/l		98
89) n-Butylbenzene	13.627	91	133757	18.837	ug/l		99
90) Hexachloroethane	13.889	117	27672	18.546	ug/l		92
91) 1,2-Dichlorobenzene	13.664	146	56297	18.628	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	3563	18.341	ug/l		93
93) 1,2,4-Trichlorobenzene	14.932	180	31223	18.373	ug/l		99
94) Hexachlorobutadiene	15.035	225	22472	18.902	ug/l		100
95) Naphthalene	15.157	128	49177	17.883	ug/l		99
96) 1,2,3-Trichlorobenzene	15.340	180	25312	18.459	ug/l		98

Sample Results: **VY020481.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020481.D
Acq On : 02 Dec 2024 13:26
Operator : SY/MD
Sample : VY1202SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 14:50:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

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

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

Sample Results: **VY020481.D**

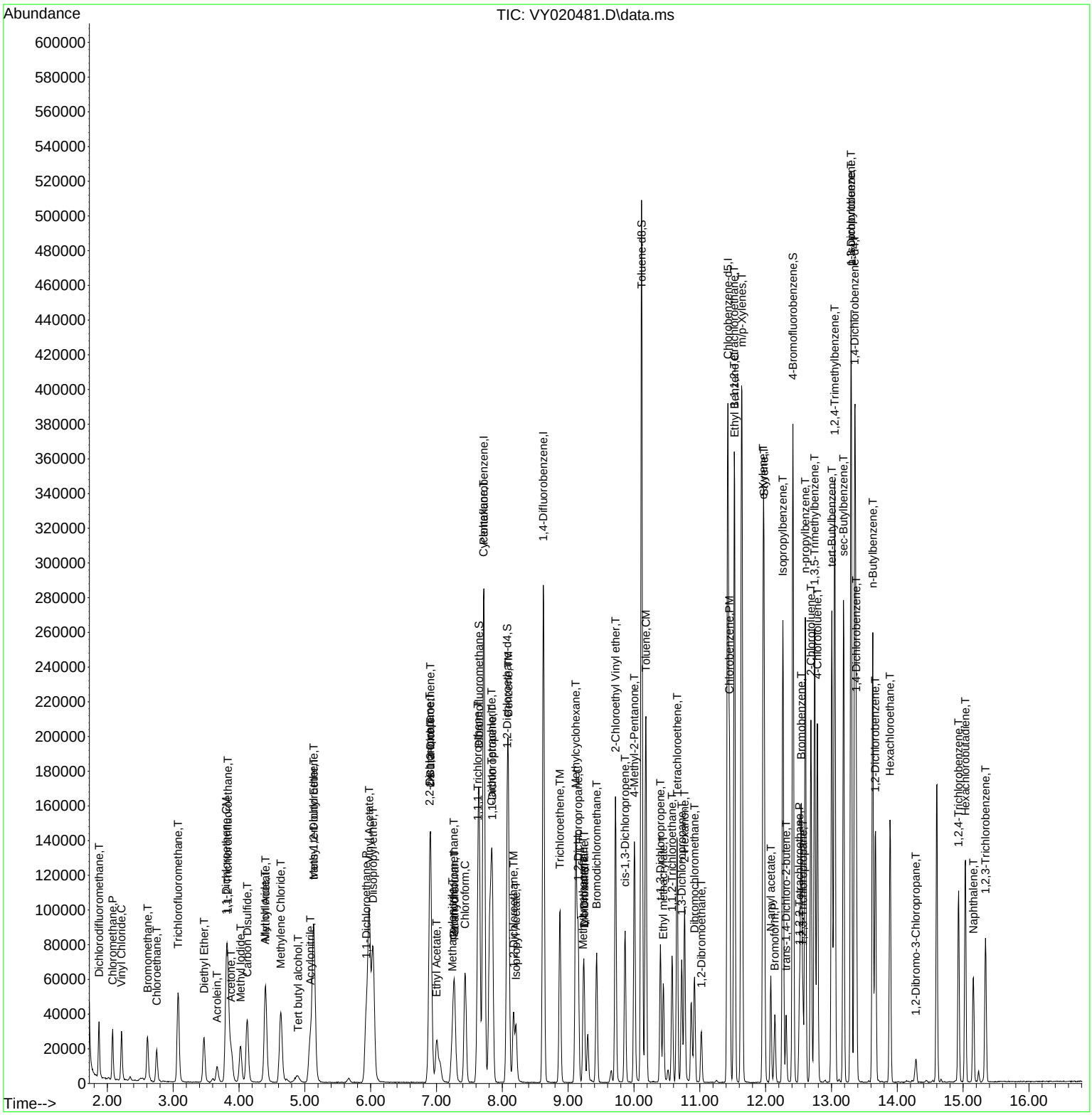
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020481.D
Acq On : 02 Dec 2024 13:26
Operator : SY/MD
Sample : VY1202SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 14:50:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024



Raw Data: **VY020482.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	Hamilton	Date Received:	
Client Sample ID:	VY1202SBSD01	SDG No.:	P5026
Lab Sample ID:	VY1202SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020482.D	1		12/02/24 13:49	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.019		0.0017	0.0050	mg/Kg
74-87-3	Chloromethane	0.019		0.0012	0.0050	mg/Kg
75-01-4	Vinyl Chloride	0.020		0.00077	0.0050	mg/Kg
74-83-9	Bromomethane	0.020		0.0010	0.0050	mg/Kg
75-00-3	Chloroethane	0.020		0.0010	0.0050	mg/Kg
75-69-4	Trichlorofluoromethane	0.021		0.00091	0.0050	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.021		0.0011	0.0050	mg/Kg
75-35-4	1,1-Dichloroethene	0.020		0.00078	0.0050	mg/Kg
67-64-1	Acetone	0.097		0.0062	0.025	mg/Kg
75-15-0	Carbon Disulfide	0.019		0.0013	0.0050	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.022		0.00067	0.0050	mg/Kg
79-20-9	Methyl Acetate	0.023		0.0018	0.0050	mg/Kg
75-09-2	Methylene Chloride	0.022		0.0034	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.021		0.00084	0.0050	mg/Kg
75-34-3	1,1-Dichloroethane	0.021		0.00063	0.0050	mg/Kg
110-82-7	Cyclohexane	0.020		0.00069	0.0050	mg/Kg
78-93-3	2-Butanone	0.11		0.0057	0.025	mg/Kg
56-23-5	Carbon Tetrachloride	0.022		0.00087	0.0050	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.021		0.00061	0.0050	mg/Kg
74-97-5	Bromochloromethane	0.020		0.0024	0.0050	mg/Kg
67-66-3	Chloroform	0.022		0.00067	0.0050	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.022		0.00078	0.0050	mg/Kg
108-87-2	Methylcyclohexane	0.022		0.00087	0.0050	mg/Kg
71-43-2	Benzene	0.022		0.00072	0.0050	mg/Kg
107-06-2	1,2-Dichloroethane	0.022		0.00061	0.0050	mg/Kg
79-01-6	Trichloroethene	0.022		0.00075	0.0050	mg/Kg
78-87-5	1,2-Dichloropropane	0.022		0.00066	0.0050	mg/Kg
75-27-4	Bromodichloromethane	0.022		0.00056	0.0050	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.12		0.0044	0.025	mg/Kg
108-88-3	Toluene	0.022		0.00067	0.0050	mg/Kg

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	Hamilton	Date Received:	
Client Sample ID:	VY1202SBSD01	SDG No.:	P5026
Lab Sample ID:	VY1202SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020482.D	1		12/02/24 13:49	VY120224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.022		0.00060	0.0050	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.022		0.00057	0.0050	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.023		0.00084	0.0050	mg/Kg
591-78-6	2-Hexanone	0.11		0.0048	0.025	mg/Kg
124-48-1	Dibromochloromethane	0.022		0.00065	0.0050	mg/Kg
106-93-4	1,2-Dibromoethane	0.023		0.00079	0.0050	mg/Kg
127-18-4	Tetrachloroethene	0.022		0.00089	0.0050	mg/Kg
108-90-7	Chlorobenzene	0.022		0.00074	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.022		0.00062	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.044		0.0014	0.010	mg/Kg
95-47-6	o-Xylene	0.022		0.00070	0.0050	mg/Kg
100-42-5	Styrene	0.022		0.00060	0.0050	mg/Kg
75-25-2	Bromoform	0.023		0.00081	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.022		0.00067	0.0050	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.023		0.0011	0.0050	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.022		0.00074	0.0050	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.023		0.00080	0.0050	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.023		0.00059	0.0050	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.023		0.0016	0.0050	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.022		0.00079	0.0050	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.022		0.00078	0.0050	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		50 - 163	108%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		54 - 147	107%	SPK: 50
2037-26-5	Toluene-d8	54.4		58 - 134	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.8		29 - 146	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	153000	7.719			
540-36-3	1,4-Difluorobenzene	238000	8.622			
3114-55-4	Chlorobenzene-d5	196000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	91300	13.353			

Raw Data: **VY020482.D**

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

Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	
Project:	Hamilton	Date Received:	
Client Sample ID:	VY1202SBSD01	SDG No.:	P5026
Lab Sample ID:	VY1202SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020482.D	1		12/02/24 13:49	VY120224

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\VY120224\
Data File : VY020482.D
Acq On : 02 Dec 2024 13:49
Operator : SY/MD
Sample : VY1202SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBSD01

Manual Integrations APPROVED
Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:55:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	152704	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	237507	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	195658	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	91267	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	83680	53.882	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.760%			
35) Dibromofluoromethane	7.646	113	80114	53.580	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.160%			
50) Toluene-d8	10.115	98	309889	54.428	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 108.860%			
62) 4-Bromofluorobenzene	12.414	95	105083	52.771	ug/l	0.01
Spiked Amount 50.000	Range 29 - 146		Recovery = 105.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	28636	19.225	ug/l	97
3) Chloromethane	2.080	50	29095	19.292	ug/l	98
4) Vinyl Chloride	2.214	62	30158	19.612	ug/l	99
5) Bromomethane	2.604	94	18258	20.237	ug/l	97
6) Chloroethane	2.751	64	19207	20.380	ug/l	100
7) Trichlorofluoromethane	3.074	101	60095	20.867	ug/l	97
8) Diethyl Ether	3.464	74	17288	21.186	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.836	101	34822	20.751	ug/l	97
10) Methyl Iodide	4.019	142	38694	20.541	ug/l	95
11) Tert butyl alcohol	4.872	59	12028	119.392	ug/l	97
12) 1,1-Dichloroethene	3.806	96	32362	20.415	ug/l	98
13) Acrolein	3.671	56	10955	116.144	ug/l	97
14) Allyl chloride	4.403	41	59033	20.880	ug/l	96
15) Acrylonitrile	5.074	53	38829	114.206	ug/l	99
16) Acetone	3.885	43	37392	96.831	ug/l	98
17) Carbon Disulfide	4.123	76	84926	18.719	ug/l	99
18) Methyl Acetate	4.403	43	18506	22.548	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	89868	22.199	ug/l	91
20) Methylene Chloride	4.635	84	35731	21.752	ug/l	91
21) trans-1,2-Dichloroethene	5.135	96	36771	20.885	ug/l	96
22) Diisopropyl ether	6.031	45	124017	22.059	ug/l	99
23) Vinyl Acetate	5.976	43	326117	109.669	ug/l	97
24) 1,1-Dichloroethane	5.933	63	71907	21.245	ug/l	98
25) 2-Butanone	6.909	43	52722	108.122	ug/l	92
26) 2,2-Dichloropropane	6.903	77	68528	21.406	ug/l	100
27) cis-1,2-Dichloroethene	6.909	96	43651	21.232	ug/l	99
28) Bromochloromethane	7.262	49	24845	19.657	ug/l	98
29) Tetrahydrofuran	7.281	42	30948	111.252	ug/l	98
30) Chloroform	7.433	83	75287	21.673	ug/l	98
31) Cyclohexane	7.713	56	61489	20.095	ug/l #	91
32) 1,1,1-Trichloroethane	7.628	97	72180	21.579	ug/l	97
36) 1,1-Dichloropropene	7.847	75	52825	20.921	ug/l	98
37) Ethyl Acetate	7.000	43	22696	22.688	ug/l	98
38) Carbon Tetrachloride	7.829	117	65557	21.754	ug/l	98
39) Methylcyclohexane	9.116	83	67730	21.617	ug/l	99
40) Benzene	8.091	78	160360	21.540	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020482.D
Acq On : 02 Dec 2024 13:49
Operator : SY/MD
Sample : VY1202SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 02 14:55:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	11277	19.830	ug/l	#	86
42) 1,2-Dichloroethane	8.171	62	43844	22.413	ug/l		99
43) Isopropyl Acetate	8.207	43	45883	22.715	ug/l		97
44) Trichloroethene	8.872	130	40196	21.902	ug/l		97
45) 1,2-Dichloropropane	9.152	63	38507	22.104	ug/l		99
46) Dibromomethane	9.237	93	19165	22.219	ug/l		98
47) Bromodichloromethane	9.433	83	55616	21.885	ug/l	#	98
48) Methyl methacrylate	9.225	41	21608	22.940	ug/l		95
49) 1,4-Dioxane	9.244	88	3701	448.887	ug/l	#	91
51) 4-Methyl-2-Pentanone	10.006	43	115048	115.329	ug/l		99
52) Toluene	10.176	92	102521	22.072	ug/l		98
53) t-1,3-Dichloropropene	10.402	75	50019	21.923	ug/l		100
54) cis-1,3-Dichloropropene	9.865	75	59672	22.130	ug/l		97
55) 1,1,2-Trichloroethane	10.579	97	26089	22.674	ug/l		96
56) Ethyl methacrylate	10.445	69	37037	22.749	ug/l		94
57) 1,3-Dichloropropane	10.725	76	46988	22.805	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.719	63	78075	102.424	ug/l		97
59) 2-Hexanone	10.768	43	80164	111.393	ug/l		97
60) Dibromochloromethane	10.920	129	35294	22.032	ug/l		96
61) 1,2-Dibromoethane	11.018	107	23755	22.576	ug/l		98
64) Tetrachloroethene	10.652	164	35499	21.472	ug/l		99
65) Chlorobenzene	11.450	112	108869	22.199	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.524	131	38903	22.368	ug/l		99
67) Ethyl Benzene	11.524	91	201800	21.952	ug/l		99
68) m/p-Xylenes	11.633	106	148767	44.196	ug/l		98
69) o-Xylene	11.963	106	69025	21.888	ug/l		98
70) Styrene	11.975	104	115458	21.945	ug/l		99
71) Bromoform	12.139	173	20057	22.682	ug/l	#	99
73) Isopropylbenzene	12.261	105	195091	22.093	ug/l		99
74) N-amyl acetate	12.078	43	38081	22.002	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.511	83	28793	22.673	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	21937m	23.595	ug/l		
77) Bromobenzene	12.536	156	39826	21.778	ug/l		99
78) n-propylbenzene	12.603	91	234124	22.393	ug/l		99
79) 2-Chlorotoluene	12.688	91	128416	21.767	ug/l		99
80) 1,3,5-Trimethylbenzene	12.743	105	158193	22.355	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.310	75	9934	21.924	ug/l		97
82) 4-Chlorotoluene	12.786	91	134845	22.398	ug/l		99
83) tert-Butylbenzene	13.005	119	144335	22.560	ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	154419	22.451	ug/l		99
85) sec-Butylbenzene	13.182	105	208002	22.685	ug/l		100
86) p-Isopropyltoluene	13.298	119	172482	22.764	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	79098	22.428	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	78042	22.604	ug/l		99
89) n-Butylbenzene	13.627	91	160949	22.903	ug/l		99
90) Hexachloroethane	13.889	117	32061	21.712	ug/l		94
91) 1,2-Dichlorobenzene	13.664	146	67236	22.481	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4360	22.679	ug/l		96
93) 1,2,4-Trichlorobenzene	14.932	180	37243	22.145	ug/l		99
94) Hexachlorobutadiene	15.029	225	26114	22.196	ug/l		98
95) Naphthalene	15.151	128	59982	22.040	ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	29661	21.857	ug/l		100

Sample Results: **VY020482.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020482.D
Acq On : 02 Dec 2024 13:49
Operator : SY/MD
Sample : VY1202SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024

Quant Time: Dec 02 14:55:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

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

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

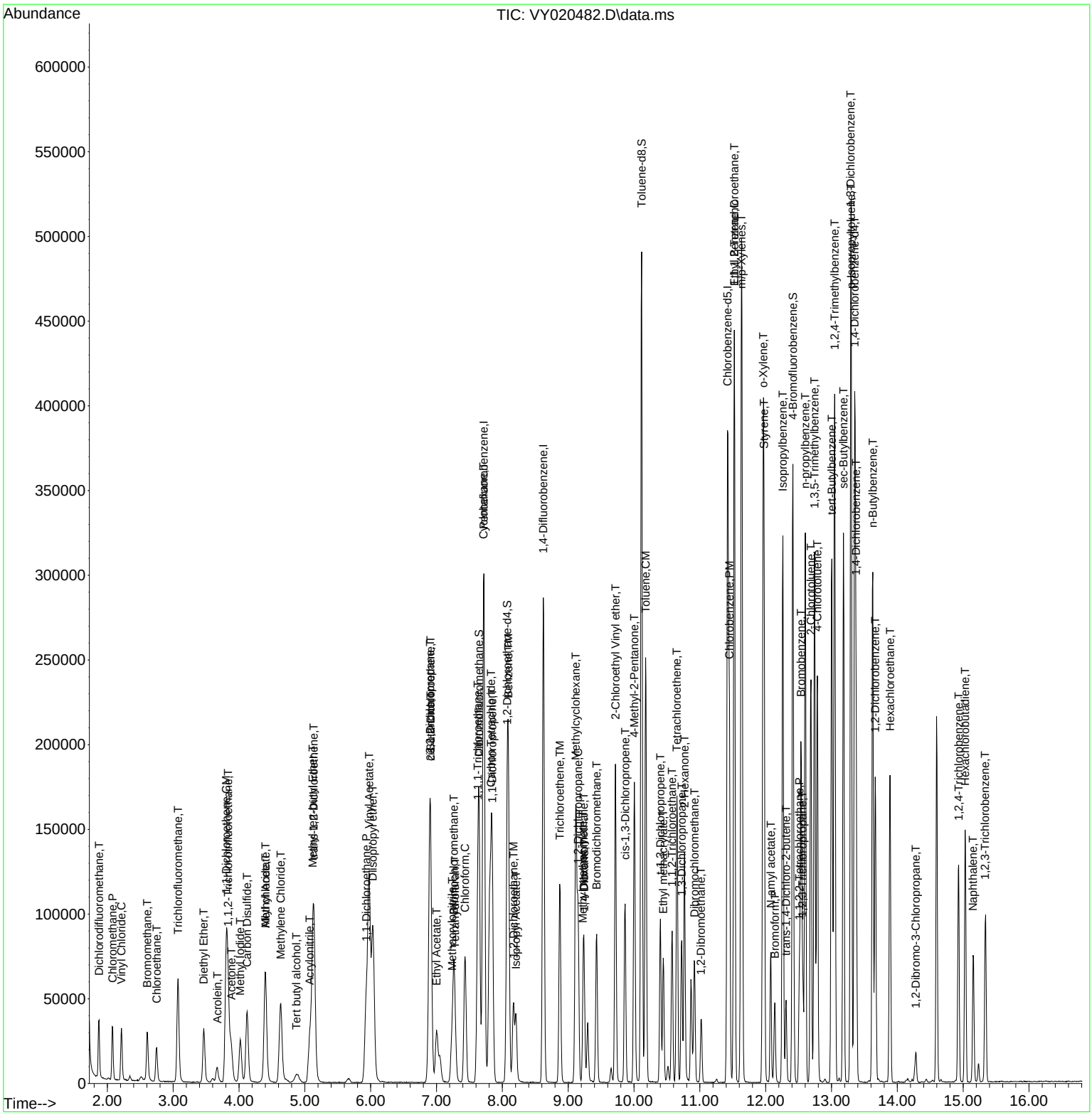
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120224\
Data File : VY020482.D
Acq On : 02 Dec 2024 13:49
Operator : SY/MD
Sample : VY1202SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 02 14:55:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 02 14:47:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1202SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/03/2024
Supervised By :Mahesh Dadoda 12/03/2024



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

Manual Integration Report

Sequence:	vy120224	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY020472.D	1,2,3-Trichloropropane	Romaben	12/3/2024 9:55:09 AM	MMDadoda	12/3/2024 1:37:01 PM	Peak Integrated by Software
VSTDICC010	VY020473.D	1,2,3-Trichloropropane	Romaben	12/3/2024 9:55:16 AM	MMDadoda	12/3/2024 1:37:02 PM	Peak Integrated by Software
VSTDICC020	VY020474.D	1,2,3-Trichloropropane	Romaben	12/3/2024 9:55:19 AM	MMDadoda	12/3/2024 1:37:04 PM	Peak Integrated by Software
VSTDICCC050	VY020475.D	1,2,3-Trichloropropane	Romaben	12/3/2024 9:56:34 AM	MMDadoda	12/3/2024 1:37:06 PM	Peak Integrated by Software
VSTDICC100	VY020476.D	1,2,3-Trichloropropane	Romaben	12/3/2024 9:55:46 AM	MMDadoda	12/3/2024 1:37:08 PM	Peak Integrated by Software
VSTDICC150	VY020477.D	1,2,3-Trichloropropane	Romaben	12/3/2024 9:55:54 AM	MMDadoda	12/3/2024 1:37:09 PM	Peak Integrated by Software
VSTDICV050	VY020479.D	1,2,3-Trichloropropane	Romaben	12/3/2024 9:55:58 AM	MMDadoda	12/3/2024 1:37:11 PM	Peak Integrated by Software
VY1202SBS01	VY020481.D	1,2,3-Trichloropropane	Romaben	12/3/2024 9:56:02 AM	MMDadoda	12/3/2024 1:37:13 PM	Peak Integrated by Software
VY1202SBSD01	VY020482.D	1,2,3-Trichloropropane	Romaben	12/3/2024 9:56:07 AM	MMDadoda	12/3/2024 1:37:14 PM	Peak Integrated by Software
VSTDCCC050	VY020491.D	1,2,3-Trichloropropane	Romaben	12/3/2024 9:56:17 AM	MMDadoda	12/3/2024 1:37:16 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY120224

Review By	Mahesh Dadoda	Review On	12/3/2024 1:38:05 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/3/2024 1:43:04 PM		
SubDirectory	VY120224	HP Acquire Method		HP Processing Method	82y120224s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131856
Initial Calibration Stds	VP131857,VP131858,VP131859,VP131860,VP131861,VP131862
CCC	VP131863
Internal Standard/PEM	VP131783
ICV/I.BLK	VP131870
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020471.D	02 Dec 2024 08:23	SY/MD	Ok
2	VSTDICC005	VY020472.D	02 Dec 2024 09:16	SY/MD	Ok,M
3	VSTDICC010	VY020473.D	02 Dec 2024 09:38	SY/MD	Ok,M
4	VSTDICC020	VY020474.D	02 Dec 2024 10:01	SY/MD	Ok,M
5	VSTDICCC050	VY020475.D	02 Dec 2024 10:24	SY/MD	Ok,M
6	VSTDICC100	VY020476.D	02 Dec 2024 10:46	SY/MD	Ok,M
7	VSTDICC150	VY020477.D	02 Dec 2024 11:09	SY/MD	Ok,M
8	VIBLK	VY020478.D	02 Dec 2024 11:32	SY/MD	Ok
9	VSTDICV050	VY020479.D	02 Dec 2024 12:11	SY/MD	Ok,M
10	VY1202SBL01	VY020480.D	02 Dec 2024 12:54	SY/MD	Ok
11	VY1202SBS01	VY020481.D	02 Dec 2024 13:26	SY/MD	Ok,M
12	VY1202SBSD01	VY020482.D	02 Dec 2024 13:49	SY/MD	Ok,M
13	P5019-01	VY020483.D	02 Dec 2024 14:24	SY/MD	Ok
14	P5005-01	VY020484.D	02 Dec 2024 14:47	SY/MD	Not Ok
15	P5045-01RE	VY020485.D	02 Dec 2024 15:11	SY/MD	Confirms
16	P5046-01	VY020486.D	02 Dec 2024 15:34	SY/MD	Ok
17	P5048-03	VY020487.D	02 Dec 2024 15:58	SY/MD	Ok
18	P5026-04	VY020488.D	02 Dec 2024 16:21	SY/MD	Ok
19	P5026-08	VY020489.D	02 Dec 2024 16:44	SY/MD	Ok
20	P5025-04	VY020490.D	02 Dec 2024 17:08	SY/MD	Ok
21	VSTDCCC050	VY020491.D	02 Dec 2024 17:38	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY120224

Review By	Mahesh Dadoda	Review On	12/3/2024 1:38:05 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/3/2024 1:43:04 PM		
SubDirectory	VY120224	HP Acquire Method		HP Processing Method	82y120224s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131856
Initial Calibration Stds	VP131857,VP131858,VP131859,VP131860,VP131861,VP131862
CCC	VP131863
Internal Standard/PEM	VP131783
ICV/I.BLK	VP131870
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020471.D	02 Dec 2024 08:23		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020472.D	02 Dec 2024 09:16		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY020473.D	02 Dec 2024 09:38		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020474.D	02 Dec 2024 10:01		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020475.D	02 Dec 2024 10:24		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020476.D	02 Dec 2024 10:46		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020477.D	02 Dec 2024 11:09		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020478.D	02 Dec 2024 11:32		SY/MD	Ok
9	VSTDICV050	ICVVY120224	VY020479.D	02 Dec 2024 12:11		SY/MD	Ok,M
10	VY1202SBL01	VY1202SBL01	VY020480.D	02 Dec 2024 12:54		SY/MD	Ok
11	VY1202SBS01	VY1202SBS01	VY020481.D	02 Dec 2024 13:26		SY/MD	Ok,M
12	VY1202SBSD01	VY1202SBSD01	VY020482.D	02 Dec 2024 13:49		SY/MD	Ok,M
13	P5019-01	EO-02-11262024	VY020483.D	02 Dec 2024 14:24	vial-B	SY/MD	Ok
14	P5005-01	STOCK-PILE	VY020484.D	02 Dec 2024 14:47	vial-B Not purged	SY/MD	Not Ok
15	P5045-01RE	SU-04-11222024RE	VY020485.D	02 Dec 2024 15:11	vial-B Internal Standard Fail	SY/MD	Confirms
16	P5046-01	HD-01-11272024	VY020486.D	02 Dec 2024 15:34	vial-B Internal Standard Fail	SY/MD	Ok
17	P5048-03	MH-746--VOC	VY020487.D	02 Dec 2024 15:58	vial-B	SY/MD	Ok
18	P5026-04	SOIL-1-HAM-GRAB	VY020488.D	02 Dec 2024 16:21	vial-B	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY120224

Review By	Mahesh Dadoda	Review On	12/3/2024 1:38:05 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/3/2024 1:43:04 PM		
SubDirectory	VY120224	HP Acquire Method		HP Processing Method	82y120224s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131856
Initial Calibration Stds	VP131857,VP131858,VP131859,VP131860,VP131861,VP131862
CCC	VP131863
Internal Standard/PEM	VP131783
ICV/I.BLK	VP131870
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P5026-08	SOIL-1-HAM-GRAB	VY020489.D	02 Dec 2024 16:44	vial-B	SY/MD	Ok
20	P5025-04	SOIL-WEST-GRAB	VY020490.D	02 Dec 2024 17:08	vial-B	SY/MD	Ok
21	VSTDCCC050	VSTDCCC050EC	VY020491.D	02 Dec 2024 17:38		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/2/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 11/27/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/28/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133667

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
P5022-01	TAPIAL2-SB02D-13-112424-00-T1	1	1.15	8.70	9.85	9.23	92.9	
P5025-01	SOIL-WEST	2	1.18	8.43	9.61	8.41	85.8	
P5025-03	SOIL-WEST-TPH2	3	1.17	8.60	9.77	8.54	85.7	
P5025-04	SOIL-WEST-GRAB	4	1.16	8.49	9.65	8.43	85.6	
P5025-05	SOIL-EAST	5	1.15	8.73	9.88	7.85	76.7	
P5025-07	SOIL-EAST-TPH2	6	1.11	8.70	9.81	7.76	76.4	
P5025-08	SOIL-EAST-GRAB	7	1.15	8.82	9.97	9.39	93.4	
P5026-01	SOIL-1-HAM	8	1.13	8.65	9.78	8.00	79.4	
P5026-03	SOIL-1-HAM-TPH2	9	1.17	8.50	9.67	8.72	88.8	
P5026-04	SOIL-1-HAM-GRAB	10	1.18	8.42	9.6	8.66	88.8	
P5026-05	SOIL-1-HAM	11	1.15	8.81	9.96	8.00	77.8	
P5026-07	SOIL-1-HAM-TPH2	12	1.19	8.50	9.69	7.51	74.4	
P5026-08	SOIL-1-HAM-GRAB	13	1.14	8.75	9.89	7.7	75.0	
P5045-01	SU-04-11222024	14	1.19	8.50	9.69	8.96	91.4	
P5045-02	SU-04-11222024-E2	15	1.13	8.74	9.87	8.49	84.2	
P5046-01	HD-01-11272024	16	1.17	8.57	9.74	8.8	89.0	
P5046-02	HD-01-11272024-E2	17	1.16	8.83	9.99	9.00	88.8	
P5048-01	MH-746-WC	18	1.17	8.65	9.82	9.18	92.6	
P5048-02	MH-746-EPH	19	1.15	8.80	9.95	8.91	88.2	
P5048-03	MH-746--VOC	20	1.15	8.36	9.51	8.48	87.7	

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

WORKLIST(Hardcopy Internal Chain)

JB 133667

WorkList Name : %1-112724 **WorkList ID :** 185820 **Department :** Wet-Chemistry **Date :** 11-27-2024 08:06:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5022-01	TAPIAL2-SB02D-13-112424-00-	Solid	Percent Solids	Cool 4 deg C	WEST04	L41	11/24/2024	Chemtech -SO
P5025-01	SOIL-WEST	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5025-03	SOIL-WEST-TPH2	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5025-04	SOIL-WEST-GRAB	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5025-05	SOIL-EAST	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5025-07	SOIL-EAST-TPH2	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5025-08	SOIL-EAST-GRAB	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5026-01	SOIL-1-HAM	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5026-03	SOIL-1-HAM-TPH2	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5026-04	SOIL-1-HAM-GRAB	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5026-05	SOIL-1-HAM	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5026-07	SOIL-1-HAM-TPH2	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5026-08	SOIL-1-HAM-GRAB	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5045-01	SU-04-11222024	Solid	Percent Solids	Cool 4 deg C	TULL02	L61	11/27/2024	Chemtech -SO
P5045-02	SU-04-11222024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L51	11/27/2024	Chemtech -SO
P5046-01	HD-01-11272024	Solid	Percent Solids	Cool 4 deg C	PSEG05	L51	11/27/2024	Chemtech -SO
P5046-02	HD-01-11272024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L51	11/27/2024	Chemtech -SO
P5048-01	MH-746-WC	Solid	Percent Solids	Cool 4 deg C	PSEG05	L51	11/27/2024	Chemtech -SO
P5048-02	MH-746-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/27/2024	Chemtech -SO
P5048-03	MH-746--VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/27/2024	Chemtech -SO
					PSEG03	L61	11/27/2024	Chemtech -SO

Date/Time 11/27/24 16:10

Raw Sample Received by: JB WDC

Raw Sample Relinquished by: [signature]

Date/Time 11/27/24 17:20

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JB WDC

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. / QUOTE NO. P5026
COC Number 2042079

CLIENT INFORMATION
REPORT TO BE SENT TO:
COMPANY: Tully Construction Co. Inc
ADDRESS: 104th St & 164th Drive
CITY Queens STATE: NY ZIP:
ATTENTION: Dean Devoe
PHONE: FAX:

CLIENT PROJECT INFORMATION
PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION
BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

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

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

ANALYSIS
1 VOCs 2 SVOC & PCB 3 TCLP Extraction 4 Corrosivity 5 Ignitability 6 Reactive Cyn 7 Reactive Sulfide 8 Mercury Met & 1 9 TPH

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								E/F	E	E	E	E	E	E	E	E	← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	SOIL-1-HAM	SOL	X		112724	1042	7		X	X	X	X	X	X	X	X	
2.	SOIL-1-HAM			X		1045	4	X									0.0 ppm
3.	SOIL-1-HAM-TPH2		X			1050	1									X	
4.	SOIL-2-HAM		X			1110	7		X	X	X	X	X	X	X	X	
5.	SOIL-2-HAM			X		1112	4	X									0.0 ppm
6.	SOIL-2-HAM-TPH2		X			1115	1									X	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	1130 11-27-24	1.
2.		2.
3.	1400 11-27-24	3.

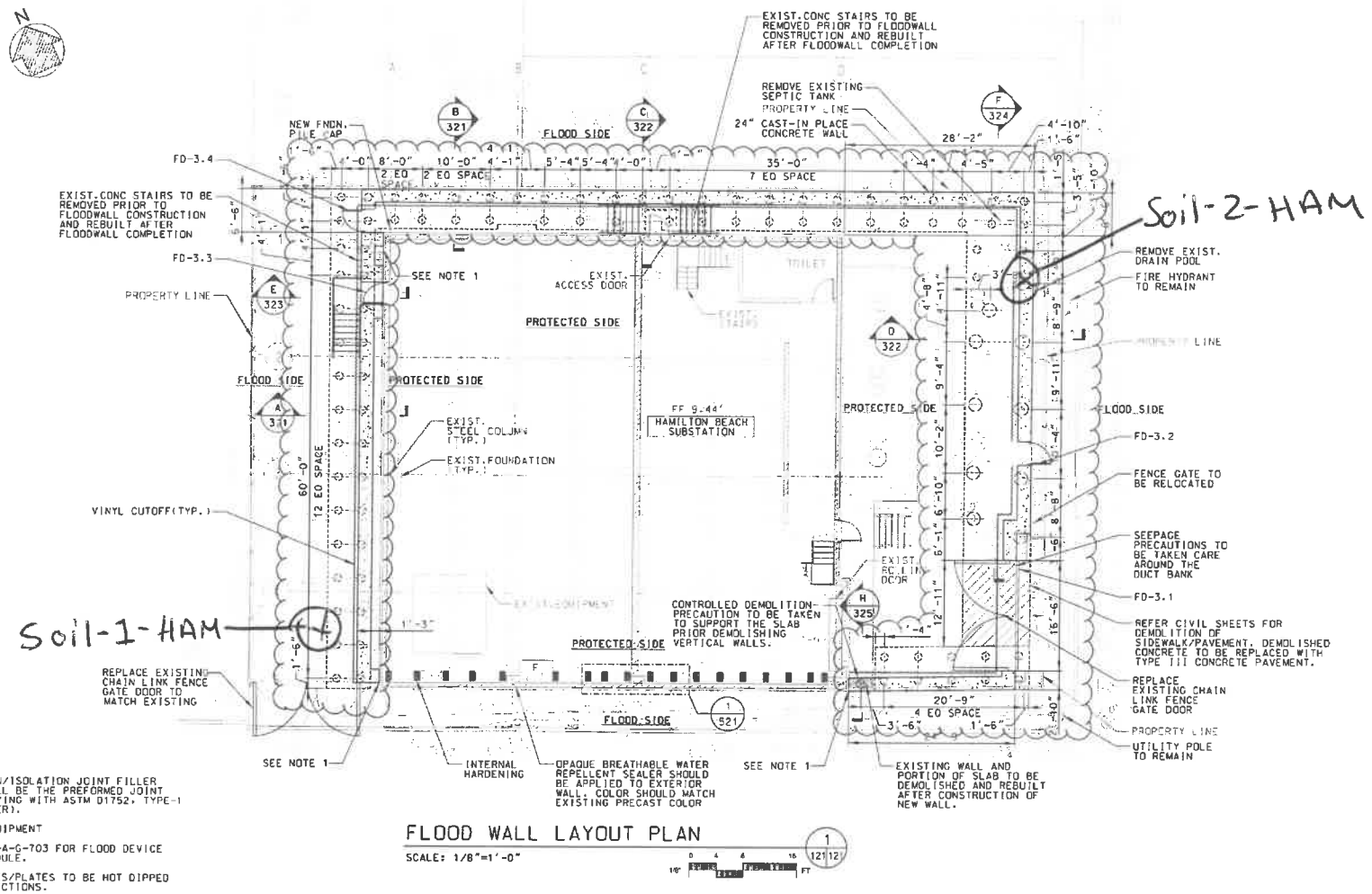
Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP _____ °C
Comments: Collected 8:1 composite Sample + (2) 5:1 Composite Sample for sampling protocol
PID calibration 11-27-24

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☑ Field Sampling

Shipment Complete ☐ YES ☐ NO

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



NOTES:

1. THE EXPANSION/ISOLATION JOINT FILLER MATERIAL SHALL BE THE PREFORMED JOINT FILLER COMPLYING WITH ASTM D1752, TYPE-1 (SPONGE RUBBER).
2. F - FIXED EQUIPMENT
3. REFER P36343-4-G-703 FOR FLOOD DEVICE OPENING SCHEDULE.
4. ALL HSS/ANGLES/PLATES TO BE HOT DIPPED GALVANIZED SECTIONS.

FLOOD WALL LAYOUT PLAN

SCALE: 1/8"=1'-0"

REVISION	DESCRIPTION	DATE	APPROVED

REVISIONS

CONSTRUCTION & DEVELOPMENT

CONTRACT P-36343
FLOOD MITIGATION AT TWENTY-SIX (26) SUBSTATIONS IN THE BOROUGH OF BROOKLYN, MANHATTAN AND QUEENS

HAMILTON BEACH SUBSTATION FLOOD WALL PLAN

STATE OF NEW YORK — R. J. NUTHAN — PROFESSIONAL ENGINEER
04-15-2024

DRAWN BY	R. NUTHAN	Nuthan R	DATE 04/15/2024
DESIGNED BY	K.UDAY	Uday. K	DISCIPLINE STRUCTURAL
CHECKED BY	DINAKAR KN	Dinakar	P36343-HAM-CS-121
APPROVED BY	C.JEDRICH, PE		REVISION

$DESIGN$FILESEXPANDED$SPECS

PRINT AS OF $DATE$OFSPLOTTINGS

USER$NAME

CHEMTECH
Environmental Laboratory
www.chemtech.net | EMAIL: PM@chemtech.net

Project Name: _____
Service Order #: _____
Work Order #: _____
Labor WBS #: _____
Facility/Site: Hamilton Beach Sub
Site Address: 164th Street & 64th Drive, Queens NY

Chemtech Order ID: _____
Sampler Name: Jeremy M
Client Project Coordinator & Phone: Dean D
Page #: 1 of 1
Date: 11-27-24
Arrive Time: 1030
Depart Time: 1130

Waste Stream (circle one): drum / roll-off / (soil pile) / in-situ / linear construction / frac-tank
Sample Matrices (circle all that apply): Water / (Solid) / NAPL / Concrete / Wipe

Collection Depths: _____ **Dimensions/CY**: _____
Temp (range): 2.3 °C **PID Readings (range)**: 0.0 PPM **Odor**: Y (N) **Color**: Y (N)
Sample Description: Wet Sand, Rocks.
Field Observations: Very wet Sand, (2) unique locations

Grid/Area Composite Map:

QA Control # A3041134

See Attached Map

Sampler Signature: JM
Client Signature: _____

Supervisor Review/Date: _____
Date/Time Arrived at Lab: _____

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

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5026 TULL02
Client Name : Tully Construction Co., Inc.
Client Contact : Dean Devoe
Invoice Name : Tully Construction Co., Inc.
Invoice Contact : Dean Devoe

Order Date : 11/27/2024 11:24:00 AM
Project Name : Hamilton
Receive DateTime : 11/27/2024 2:00:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : Excel NY 375
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5026-04	SOIL-1-HAM-GRAB	Solid	11/27/2024	10:45					
					VOC-TCLVOA-10		8260D		5 Bus. Days
P5026-08	SOIL-1-HAM-GRAB	Solid	11/27/2024	11:12					
					VOC-TCLVOA-10		8260D		5 Bus. Days

Relinguished By : DM
Date / Time : 11-27-24 1435

Received By : DM
Date / Time : 11/27/24 14:35
Storage Area : VOA Refridgerator Room

RJG 46
RZZ