

Cover Page

Order ID : P4578

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number

P4578-01
P4578-02
P4578-03
P4578-04
P4578-05
P4578-06
P4578-07
P4578-08
P4578-09

Client Sample Number

WB-305-SW
WB-305-SW-1
WB-305-TOP
WB-305-TOP-1
WB-305-BOT
WB-305-BOT
WB-305-BOT-1
WB-305-BOT-1
TB-10252024

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: 11/6/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4578

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: 11/06/2024

LAB CHRONICLE

OrderID:	P4578	OrderDate:	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	Location:	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	WB-305-SW	Water	VOC-TCLVOA-10	8260-Low	10/25/24		10/29/24	10/25/24
P4578-02	WB-305-SW-1	Water	VOC-TCLVOA-10	8260-Low	10/25/24		10/29/24	10/25/24
P4578-03	WB-305-TOP	SOIL	VOC-TCLVOA-10	8260D	10/25/24		10/28/24	10/25/24
P4578-04	WB-305-TOP-1	SOIL	VOC-TCLVOA-10	8260D	10/25/24		10/28/24	10/25/24
P4578-05	WB-305-BOT	SOIL	VOC-TCLVOA-10	8260D	10/25/24		10/29/24	10/25/24
P4578-06	WB-305-BOT	TCLP	TCLP VOA	8260D	10/25/24		10/29/24	10/25/24
P4578-07	WB-305-BOT-1	SOIL	VOC-TCLVOA-10	8260D	10/25/24		10/28/24	10/25/24
P4578-08	WB-305-BOT-1	TCLP	TCLP VOA	8260D	10/25/24		10/29/24	10/25/24
P4578-09	TB-10252024	Water	VOC-TCLVOA-10	8260-Low	10/25/24		10/29/24	10/25/24

Hit Summary Sheet
SW-846

SDG No.: P4578
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	WB-305-SW							
P4578-01	WB-305-SW	Water	Acetone	2.20	J	1.40	5.00	ug/L
P4578-01	WB-305-SW	Water	Methylene Chloride	0.36	J	0.32	1.00	ug/L
			Total Voc :	2.56				
			Total Concentration:	2.56				
Client ID:	WB-305-SW-1							
P4578-02	WB-305-SW-1	Water	Acetone	2.40	J	1.40	5.00	ug/L
			Total Voc :	2.40				
			Total Concentration:	2.40				
Client ID:	WB-305-TOP							
P4578-03	WB-305-TOP	SOIL	Acetone	80.6		9.70	38.8	ug/Kg
P4578-03	WB-305-TOP	SOIL	Methyl Acetate	54.2		2.80	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	2-Butanone	18.5	J	8.80	38.8	ug/Kg
P4578-03	WB-305-TOP	SOIL	Methylcyclohexane	2.30	J	1.30	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	Toluene	20.4		1.00	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	Ethyl Benzene	1.60	J	0.96	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	m/p-Xylenes	5.20	J	2.10	15.5	ug/Kg
P4578-03	WB-305-TOP	SOIL	o-Xylene	5.40	J	1.10	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	Isopropylbenzene	7.10	J	1.00	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	1,3-Dichlorobenzene	2.10	J	1.10	7.80	ug/Kg
			Total Voc :	197				
P4578-03	WB-305-TOP	SOIL	unknown14.005	* 130	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown14.535	* 140	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 1,2,4,5-tetramethyl-	* 270	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	o-Cymene	* 140	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 1-methyl-3-(1-methyl	* 320	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 1-ethenyl-4-methyl-	* 160	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	1H-Indene, 2,3-dihydro-5-meth	* 160	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	3-Phenylbut-1-ene	* 350	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 2-ethyl-1,4-dimethyl-	* 110	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 2-ethyl-1,3-dimethyl-	* 360	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	n-propylbenzene	* 2.70	J	0.99	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	1,3,5-Trimethylbenzene	* 9.50	J	0.99	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	1,2,4-Trimethylbenzene	* 47.8	J	2.10	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	sec-Butylbenzene	* 4.40	J	1.00	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	p-Isopropyltoluene	* 5.60	J	0.90	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	n-Butylbenzene	* 24.2	J	0.98	7.80	ug/Kg

Hit Summary Sheet SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-03	WB-305-TOP	SOIL	1,4-Dioxane	* 200	J	65.9	160	ug/Kg
Client ID: WB-305-TOP-1			Total Tics :	2430				
			Total Concentration:	2630				
	P4578-04	WB-305-TOP-1	SOIL	Acetone	48.0	7.40	29.6	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	Carbon Disulfide	3.60	J 1.50	5.90	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	Methyl Acetate	91.9	2.10	5.90	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	2-Butanone	12.7	J 6.70	29.6	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	Methylcyclohexane	1.90	J 1.00	5.90	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	Toluene	4.20	J 0.79	5.90	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	o-Xylene	3.40	J 0.83	5.90	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	Isopropylbenzene	5.00	J 0.79	5.90	ug/Kg
			Total Voc :	171				
P4578-04	WB-305-TOP-1	SOIL	unknown14.529	* 60.2	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	Benzene, 1,2,3,5-tetramethyl-	* 110	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	Tridecane	* 55.0	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	1H-Indene, 2,3-dihydro-5-meth	* 86.6	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	3-Phenylbut-1-ene	* 190	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	Benzene, 1-ethyl-3,5-dimethyl-	* 150	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	Benzene, 4-ethyl-1,2-dimethyl-	* 120	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	Benzene, 1-methyl-2-(2-propen	* 59.9	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	n-propylbenzene	* 1.20	J 0.76	5.90	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	1,3,5-Trimethylbenzene	* 6.10	J 0.76	5.90	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	1,2,4-Trimethylbenzene	* 24.9	J 1.60	5.90	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	p-Isopropyltoluene	* 2.60	J 0.69	5.90	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	n-Butylbenzene	* 5.70	J 0.75	5.90	ug/Kg	
			Total Tics :	872				
			Total Concentration:	1040				
Client ID: WB-305-BOT								
P4578-05	WB-305-BOT	SOIL	Carbon Disulfide	1.70	J 0.96	3.80	ug/Kg	
			Total Voc :	1.70				
P4578-05	WB-305-BOT	SOIL	Benzene, 1,2,4,5-tetramethyl-	* 17.3	J 0	0	ug/Kg	
P4578-05	WB-305-BOT	SOIL	p-Cymene	* 7.20	J 0	0	ug/Kg	
P4578-05	WB-305-BOT	SOIL	o-Cymene	* 6.70	J 0	0	ug/Kg	
P4578-05	WB-305-BOT	SOIL	1H-Indene, 2,3-dihydro-5-meth	* 8.50	J 0	0	ug/Kg	
P4578-05	WB-305-BOT	SOIL	Benzene, 1-ethyl-2,3-dimethyl-	* 20.1	J 0	0	ug/Kg	
P4578-05	WB-305-BOT	SOIL	Benzene, 1-ethyl-3,5-dimethyl-	* 23.7	J 0	0	ug/Kg	

Hit Summary Sheet SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-05	WB-305-BOT	SOIL	Benzene, 2-ethyl-1,4-dimethyl-	* 8.30	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Benzene, 1,3-diethyl-5-methyl-	* 8.20	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Cyclopropane, 1-methyl-1-pher	* 23.1	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	1,4-Cyclohexadiene, 3-ethenyl-	* 7.60	J	0	0	ug/Kg
Total Tics :					131			
Total Concentration:					132			
Client ID:	WB-305-BOT-1							
P4578-07	WB-305-BOT-1	SOIL	Naphthalene, 1,3-dimethyl-	* 8.10	J	0	0	ug/Kg
Total Tics :					8.10			
Total Concentration:					8.10			
Client ID:	TB-10252024							
P4578-09	TB-10252024	Water	Acetone	1.70	J	1.40	5.00	ug/L
Total Voc :					1.70			
Total Concentration:					1.70			



QC SUMMARY

Surrogate Summary

SDG No.: **P4578**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4578-03	WB-305-TOP	1,2-Dichloroethane-d4	50	40.1	80	70 (50)	130 (163)
		Dibromofluoromethane	50	46.0	92	70 (54)	130 (147)
		Toluene-d8	50	47.1	94	70 (58)	130 (134)
		4-Bromofluorobenzene	50	28.8	58 *	70 (29)	130 (146)
P4578-04	WB-305-TOP-1	1,2-Dichloroethane-d4	50	58.9	118	70 (50)	130 (163)
		Dibromofluoromethane	50	50.6	101	70 (54)	130 (147)
		Toluene-d8	50	51.6	103	70 (58)	130 (134)
		4-Bromofluorobenzene	50	45.6	91	70 (29)	130 (146)
P4578-05	WB-305-BOT	1,2-Dichloroethane-d4	50	58.5	117	70 (50)	130 (163)
		Dibromofluoromethane	50	49.5	99	70 (54)	130 (147)
		Toluene-d8	50	51.0	102	70 (58)	130 (134)
		4-Bromofluorobenzene	50	43.8	88	70 (29)	130 (146)
P4578-07	WB-305-BOT-1	1,2-Dichloroethane-d4	50	56.8	114	70 (50)	130 (163)
		Dibromofluoromethane	50	50.2	100	70 (54)	130 (147)
		Toluene-d8	50	51.6	103	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.0	88	70 (29)	130 (146)
VY1028SBL01	VY1028SBL01	1,2-Dichloroethane-d4	50	57.0	114	70 (50)	130 (163)
		Dibromofluoromethane	50	49.6	99	70 (54)	130 (147)
		Toluene-d8	50	50.1	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	39.5	79	70 (29)	130 (146)
VY1028SBS01	VY1028SBS01	1,2-Dichloroethane-d4	50	52.2	104	70 (50)	130 (163)
		Dibromofluoromethane	50	55.0	110	70 (54)	130 (147)
		Toluene-d8	50	53.8	107	70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.5	105	70 (29)	130 (146)
VY1028SBSD01	VY1028SBSD01	1,2-Dichloroethane-d4	50	47.0	94	70 (50)	130 (163)
		Dibromofluoromethane	50	49.8	100	70 (54)	130 (147)
		Toluene-d8	50	47.1	94	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.0	94	70 (29)	130 (146)
VY1029SBL01	VY1029SBL01	1,2-Dichloroethane-d4	50	55.3	111	70 (50)	130 (163)
		Dibromofluoromethane	50	49.6	99	70 (54)	130 (147)
		Toluene-d8	50	50.6	101	70 (58)	130 (134)
		4-Bromofluorobenzene	50	39.5	79	70 (29)	130 (146)
VY1029SBS01	VY1029SBS01	1,2-Dichloroethane-d4	50	51.8	104	70 (50)	130 (163)
		Dibromofluoromethane	50	51.2	102	70 (54)	130 (147)
		Toluene-d8	50	50.3	101	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.0	100	70 (29)	130 (146)

Surrogate Summary

SDG No.: **P4578**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4578-01	WB-305-SW	1,2-Dichloroethane-d4	50	44.0	88	70 (74)	130 (125)
		Dibromofluoromethane	50	46.8	94	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.6	95	70 (77)	130 (121)
P4578-02	WB-305-SW-1	1,2-Dichloroethane-d4	50	43.3	87	70 (74)	130 (125)
		Dibromofluoromethane	50	46.0	92	70 (75)	130 (124)
		Toluene-d8	50	50.2	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.5	93	70 (77)	130 (121)
P4578-09	TB-10252024	1,2-Dichloroethane-d4	50	44.3	89	70 (74)	130 (125)
		Dibromofluoromethane	50	45.3	91	70 (75)	130 (124)
		Toluene-d8	50	49.8	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	45.6	91	70 (77)	130 (121)
VX1029WBL01	VX1029WBL01	1,2-Dichloroethane-d4	50	43.4	87	70 (74)	130 (125)
		Dibromofluoromethane	50	45.5	91	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.6	101	70 (77)	130 (121)
VX1029WBS01	VX1029WBS01	1,2-Dichloroethane-d4	50	42.1	84	70 (74)	130 (125)
		Dibromofluoromethane	50	46.6	93	70 (75)	130 (124)
		Toluene-d8	50	48.3	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.0	94	70 (77)	130 (121)
VX1029WBSD0	VX1029WBSD01	1,2-Dichloroethane-d4	50	42.9	86	70 (74)	130 (125)
		Dibromofluoromethane	50	47.2	94	70 (75)	130 (124)
		Toluene-d8	50	50.0	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.0	100	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX043586.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1029WBS01	Dichlorodifluoromethane	20	18.5	ug/L	93			40 (69)	160 (116)	
	Chloromethane	20	16.0	ug/L	80			40 (65)	160 (116)	
	Vinyl chloride	20	18.2	ug/L	91			70 (65)	130 (117)	
	Bromomethane	20	17.4	ug/L	87			40 (58)	160 (125)	
	Chloroethane	20	19.0	ug/L	95			40 (56)	160 (128)	
	Trichlorofluoromethane	20	20.7	ug/L	104			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	21.4	ug/L	107			70 (80)	130 (112)	
	1,1-Dichloroethene	20	19.4	ug/L	97			70 (74)	130 (110)	
	Acetone	100	92.3	ug/L	92			40 (60)	160 (125)	
	Carbon disulfide	20	18.2	ug/L	91			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	17.4	ug/L	87			70 (78)	130 (114)	
	Methyl Acetate	20	16.1	ug/L	81			70 (67)	130 (125)	
	Methylene Chloride	20	17.1	ug/L	86			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.3	ug/L	97			70 (75)	130 (108)	
	1,1-Dichloroethane	20	17.9	ug/L	90			70 (78)	130 (112)	
	Cyclohexane	20	20.3	ug/L	102			70 (75)	130 (110)	
	2-Butanone	100	86.1	ug/L	86			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.1	ug/L	101			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	18.4	ug/L	92			70 (77)	130 (110)	
	Bromochloromethane	20	17.5	ug/L	88			70 (70)	130 (124)	
	Chloroform	20	18.1	ug/L	91			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.4	ug/L	97			70 (80)	130 (108)	
	Methylcyclohexane	20	21.3	ug/L	106			70 (72)	130 (115)	
	Benzene	20	18.9	ug/L	95			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.3	ug/L	92			70 (80)	130 (115)	
	Trichloroethene	20	19.6	ug/L	98			70 (77)	130 (113)	
	1,2-Dichloropropane	20	18.2	ug/L	91			70 (83)	130 (111)	
	Bromodichloromethane	20	18.3	ug/L	92			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	90.2	ug/L	90			40 (74)	160 (118)	
	Toluene	20	19.9	ug/L	100			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	17.7	ug/L	89			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	19.5	ug/L	98			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			70 (83)	130 (112)	
	2-Hexanone	100	91.2	ug/L	91			40 (73)	160 (117)	
	Dibromochloromethane	20	18.7	ug/L	94			70 (82)	130 (110)	
	1,2-Dibromoethane	20	18.5	ug/L	93			70 (81)	130 (110)	
	Tetrachloroethene	20	21.2	ug/L	106			70 (67)	130 (123)	
	Chlorobenzene	20	19.4	ug/L	97			70 (82)	130 (109)	
	Ethyl Benzene	20	20.2	ug/L	101			70 (83)	130 (109)	
	m/p-Xylenes	40	40.6	ug/L	102			70 (82)	130 (110)	
	o-Xylene	20	20.1	ug/L	101			70 (83)	130 (109)	
	Styrene	20	20.2	ug/L	101			70 (80)	130 (111)	
	Bromoform	20	17.8	ug/L	89			70 (79)	130 (109)	
	Isopropylbenzene	20	20.5	ug/L	103			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	18.5	ug/L	93			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	19.7	ug/L	99			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	19.3	ug/L	97			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	19.3	ug/L	97			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX043586.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1029WBS01	1,2-Dibromo-3-Chloropropane	20	16.5	ug/L	83			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	19.2	ug/L	96			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	18.9	ug/L	95			70 (76)	130 (114)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX043587.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1029WBSD01	Dichlorodifluoromethane	20	18.2	ug/L	91	2		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.6	ug/L	83	4		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.1	ug/L	91	0		70 (65)	130 (117)	20 (20)
	Bromomethane	20	18.6	ug/L	93	7		40 (58)	160 (125)	20 (20)
	Chloroethane	20	18.9	ug/L	95	0		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	20.6	ug/L	103	1		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/L	99	8		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.1	ug/L	96	1		70 (74)	130 (110)	20 (20)
	Acetone	100	95.8	ug/L	96	4		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	18.1	ug/L	91	0		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	17.9	ug/L	90	3		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	17.1	ug/L	86	6		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	17.0	ug/L	85	1		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	18.7	ug/L	94	3		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	18.4	ug/L	92	2		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	20.1	ug/L	101	1		70 (75)	130 (110)	20 (20)
	2-Butanone	100	91.3	ug/L	91	6		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	20.0	ug/L	100	1		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	18.6	ug/L	93	1		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	18.8	ug/L	94	7		70 (70)	130 (124)	20 (20)
	Chloroform	20	18.3	ug/L	92	1		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.1	ug/L	96	1		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	21.0	ug/L	105	1		70 (72)	130 (115)	20 (20)
	Benzene	20	19.5	ug/L	98	3		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	19.2	ug/L	96	4		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.5	ug/L	98	0		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	19.1	ug/L	96	5		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	18.9	ug/L	95	3		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	98.8	ug/L	99	10		40 (74)	160 (118)	20 (20)
	Toluene	20	20.2	ug/L	101	1		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	19.1	ug/L	96	8		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	20.1	ug/L	101	3		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	20.3	ug/L	102	8		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	100	ug/L	100	9		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	19.6	ug/L	98	4		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	19.7	ug/L	99	6		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	21.1	ug/L	106	0		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.8	ug/L	99	2		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	20.2	ug/L	101	0		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	41.9	ug/L	105	3		70 (82)	130 (110)	20 (20)
	o-Xylene	20	20.8	ug/L	104	3		70 (83)	130 (109)	20 (20)
	Styrene	20	20.5	ug/L	103	2		70 (80)	130 (111)	20 (20)
	Bromoform	20	18.8	ug/L	94	5		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	20.5	ug/L	103	0		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98	5		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.0	ug/L	100	1		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	19.1	ug/L	96	1		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.1	ug/L	101	4		70 (82)	130 (109)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX043587.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1029WBSD01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/L	94	12		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	19.2	ug/L	96	0		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	19.1	ug/L	96	1		70 (76)	130 (114)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020031.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1028SBS01	Dichlorodifluoromethane	20	16.9	ug/Kg	85			40 (64)	160 (136)	
	Chloromethane	20	16.0	ug/Kg	80			40 (70)	160 (130)	
	Vinyl chloride	20	17.8	ug/Kg	89			70 (72)	130 (129)	
	Bromomethane	20	18.4	ug/Kg	92			40 (58)	160 (141)	
	Chloroethane	20	19.2	ug/Kg	96			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.2	ug/Kg	96			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/Kg	106			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.2	ug/Kg	91			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	10.9	ug/Kg	54			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96			70 (77)	130 (129)	
	Methyl Acetate	20	18.5	ug/Kg	93			70 (69)	130 (149)	
	Methylene Chloride	20	19.5	ug/Kg	98			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	17.8	ug/Kg	89			70 (80)	130 (123)	
	1,1-Dichloroethane	20	22.3	ug/Kg	112			70 (82)	130 (123)	
	Cyclohexane	20	17.6	ug/Kg	88			70 (76)	130 (122)	
	2-Butanone	100	100	ug/Kg	100			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.8	ug/Kg	104			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			70 (82)	130 (123)	
	Bromochloromethane	20	19.7	ug/Kg	99			70 (80)	130 (127)	
	Chloroform	20	22.7	ug/Kg	114			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	22.2	ug/Kg	111			70 (80)	130 (126)	
	Methylcyclohexane	20	17.2	ug/Kg	86			70 (77)	130 (123)	
	Benzene	20	19.8	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.3	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	19.4	ug/Kg	97			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.3	ug/Kg	106			70 (83)	130 (122)	
	Bromodichloromethane	20	21.9	ug/Kg	110			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	95.9	ug/Kg	96			40 (70)	160 (135)	
	Toluene	20	20.4	ug/Kg	102			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	21.3	ug/Kg	106			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	20.4	ug/Kg	102			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.0	ug/Kg	95			70 (80)	130 (125)	
	Tetrachloroethene	20	18.9	ug/Kg	95			70 (83)	130 (125)	
	Chlorobenzene	20	20.9	ug/Kg	104			70 (84)	130 (122)	
	Ethyl Benzene	20	21.5	ug/Kg	108			70 (82)	130 (124)	
	m/p-Xylenes	40	42.1	ug/Kg	105			70 (83)	130 (124)	
	o-Xylene	20	21.1	ug/Kg	106			70 (83)	130 (123)	
	Styrene	20	21.5	ug/Kg	108			70 (82)	130 (124)	
	Bromoform	20	20.0	ug/Kg	100			70 (75)	130 (127)	
	Isopropylbenzene	20	22.4	ug/Kg	112			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	21.1	ug/Kg	106			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.3	ug/Kg	106			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	21.3	ug/Kg	106			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.6	ug/Kg	108			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020031.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1028SBS01	1,2-Dibromo-3-Chloropropane	20	18.2	ug/Kg	91			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.5	ug/Kg	93			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	17.8	ug/Kg	89			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020032.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1028SBSD01	Dichlorodifluoromethane	20	16.6	ug/Kg	83	2		40 (64)	160 (136)	30 (20)
	Chloromethane	20	16.3	ug/Kg	81	1		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	17.1	ug/Kg	86	3		70 (72)	130 (129)	30 (20)
	Bromomethane	20	18.9	ug/Kg	95	3		40 (58)	160 (141)	30 (20)
	Chloroethane	20	18.8	ug/Kg	94	2		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	18.9	ug/Kg	95	1		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/Kg	100	6		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	17.6	ug/Kg	88	3		70 (79)	130 (121)	30 (20)
	Acetone	100	130	ug/Kg	130	17		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	10.4	ug/Kg	52	4		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.1	ug/Kg	106	10		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	20.9	ug/Kg	104	11		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	19.9	ug/Kg	100	2		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	17.3	ug/Kg	86	3		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.6	ug/Kg	108	4		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	17.1	ug/Kg	86	2		70 (76)	130 (122)	30 (20)
	2-Butanone	100	120	ug/Kg	120	18		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.7	ug/Kg	104	0		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104	1		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	22.2	ug/Kg	111	11		70 (80)	130 (127)	30 (20)
	Chloroform	20	22.7	ug/Kg	114	0		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	21.1	ug/Kg	106	5		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	17.0	ug/Kg	85	1		70 (77)	130 (123)	30 (20)
	Benzene	20	20.1	ug/Kg	101	2		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	21.4	ug/Kg	107	5		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	19.0	ug/Kg	95	2		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	22.0	ug/Kg	110	4		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	22.7	ug/Kg	114	4		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	14		40 (70)	160 (135)	30 (20)
	Toluene	20	20.4	ug/Kg	102	0		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.4	ug/Kg	102	4		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.6	ug/Kg	103	6		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	22.0	ug/Kg	110	4		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	120	ug/Kg	120	18		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	21.5	ug/Kg	108	6		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.1	ug/Kg	101	6		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	19.0	ug/Kg	95	0		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	21.4	ug/Kg	107	3		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	21.5	ug/Kg	108	0		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	41.5	ug/Kg	104	1		70 (83)	130 (124)	30 (20)
	o-Xylene	20	21.1	ug/Kg	106	0		70 (83)	130 (123)	30 (20)
	Styrene	20	21.7	ug/Kg	109	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	21.2	ug/Kg	106	6		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	21.3	ug/Kg	106	6		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	22.4	ug/Kg	112	6		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	21.0	ug/Kg	105	1		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	21.2	ug/Kg	106	0		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	21.6	ug/Kg	108	0		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020032.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1028SBSD01	1,2-Dibromo-3-Chloropropane	20	21.7	ug/Kg	109	18		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.3	ug/Kg	102	9		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.8	ug/Kg	104	16		70 (70)	130 (137)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020051.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1029SBS01	Dichlorodifluoromethane	20	14.9	ug/Kg	75			40 (64)	160 (136)	
	Chloromethane	20	15.7	ug/Kg	79			40 (70)	160 (130)	
	Vinyl chloride	20	17.8	ug/Kg	89			70 (72)	130 (129)	
	Bromomethane	20	18.5	ug/Kg	93			40 (58)	160 (141)	
	Chloroethane	20	19.7	ug/Kg	99			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.3	ug/Kg	97			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.3	ug/Kg	102			70 (81)	130 (123)	
	1,1-Dichloroethene	20	17.4	ug/Kg	87			70 (79)	130 (121)	
	Acetone	100	140	ug/Kg	140			40 (60)	160 (131)	
	Carbon disulfide	20	10.2	ug/Kg	51			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	21.2	ug/Kg	106			70 (77)	130 (129)	
	Methyl Acetate	20	21.6	ug/Kg	108			70 (69)	130 (149)	
	Methylene Chloride	20	21.8	ug/Kg	109			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	17.6	ug/Kg	88			70 (80)	130 (123)	
	1,1-Dichloroethane	20	22.3	ug/Kg	112			70 (82)	130 (123)	
	Cyclohexane	20	16.9	ug/Kg	85			70 (76)	130 (122)	
	2-Butanone	100	130	ug/Kg	130			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.0	ug/Kg	100			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			70 (82)	130 (123)	
	Bromochloromethane	20	23.4	ug/Kg	117			70 (80)	130 (127)	
	Chloroform	20	23.3	ug/Kg	117			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.7	ug/Kg	109			70 (80)	130 (126)	
	Methylcyclohexane	20	16.1	ug/Kg	81			70 (77)	130 (123)	
	Benzene	20	19.9	ug/Kg	100			70 (84)	130 (121)	
	1,2-Dichloroethane	20	21.0	ug/Kg	105			70 (81)	130 (126)	
	Trichloroethene	20	18.6	ug/Kg	93			70 (83)	130 (122)	
	1,2-Dichloropropane	20	22.5	ug/Kg	113			70 (83)	130 (122)	
	Bromodichloromethane	20	22.5	ug/Kg	113			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	120	ug/Kg	120			40 (70)	160 (135)	
	Toluene	20	20.4	ug/Kg	102			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.4	ug/Kg	102			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.6	ug/Kg	103			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	22.8	ug/Kg	114			70 (82)	130 (125)	
	2-Hexanone	100	130	ug/Kg	130			40 (66)	160 (138)	
	Dibromochloromethane	20	21.7	ug/Kg	109			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.9	ug/Kg	104			70 (80)	130 (125)	
	Tetrachloroethene	20	17.8	ug/Kg	89			70 (83)	130 (125)	
	Chlorobenzene	20	20.3	ug/Kg	102			70 (84)	130 (122)	
	Ethyl Benzene	20	20.6	ug/Kg	103			70 (82)	130 (124)	
	m/p-Xylenes	40	40.8	ug/Kg	102			70 (83)	130 (124)	
	o-Xylene	20	20.2	ug/Kg	101			70 (83)	130 (123)	
	Styrene	20	21.2	ug/Kg	106			70 (82)	130 (124)	
	Bromoform	20	21.7	ug/Kg	109			70 (75)	130 (127)	
	Isopropylbenzene	20	21.4	ug/Kg	107			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	23.9	ug/Kg	119			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.2	ug/Kg	106			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	21.4	ug/Kg	107			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.6	ug/Kg	108			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020051.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1029SBS01	1,2-Dibromo-3-Chloropropane	20	22.3	ug/Kg	112			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.1	ug/Kg	96			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95			70 (70)	130 (137)	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1029WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4578

SAS No.: P4578 SDG NO.: P4578

Lab File ID: VX043585.D

Lab Sample ID: VX1029WBL01

Date Analyzed: 10/29/2024

Time Analyzed: 10:31

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1029WBS01	VX1029WBS01	VX043586.D	10/29/2024
VX1029WBSD01	VX1029WBSD01	VX043587.D	10/29/2024
TB-10252024	P4578-09	VX043591.D	10/29/2024
WB-305-SW	P4578-01	VX043597.D	10/29/2024
WB-305-SW-1	P4578-02	VX043598.D	10/29/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1028SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4578

SAS No.: P4578 SDG NO.: P4578

Lab File ID: VY020030.D

Lab Sample ID: VY1028SBL01

Date Analyzed: 10/28/2024

Time Analyzed: 09:58

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
VY1028SBS01	VY1028SBS01	VY020031.D	10/28/2024
VY1028SBSD01	VY1028SBSD01	VY020032.D	10/28/2024
WB-305-TOP	P4578-03	VY020033.D	10/28/2024
WB-305-TOP-1	P4578-04	VY020034.D	10/28/2024
WB-305-BOT-1	P4578-07	VY020035.D	10/28/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1029SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4578

SAS No.: P4578 SDG NO.: P4578

Lab File ID: VY020050.D

Lab Sample ID: VY1029SBL01

Date Analyzed: 10/29/2024

Time Analyzed: 10:01

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
VY1029SBS01	VY1029SBS01	VY020051.D	10/29/2024
WB-305-BOT	P4578-05	VY020062.D	10/29/2024

COMMENTS: _____



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
Lab File ID: VX043555.D BFB Injection Date: 10/28/2024
Instrument ID: MSVOA_X BFB Injection Time: 10:09
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	71.2
175	5.0 - 9.0% of mass 174	5.6 (7.9) 1
176	95.0 - 101.0% of mass 174	68.9 (96.7) 1
177	5.0 - 9.0% of mass 176	4.1 (6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX043556.D	10/28/2024	10:59
VSTDIC005	VSTDIC005	VX043557.D	10/28/2024	11:22
VSTDIC020	VSTDIC020	VX043558.D	10/28/2024	11:45
VSTDIC050	VSTDIC050	VX043559.D	10/28/2024	12:08
VSTDIC100	VSTDIC100	VX043560.D	10/28/2024	12:31
VSTDIC150	VSTDIC150	VX043561.D	10/28/2024	12:54



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
Lab File ID: VX043582.D BFB Injection Date: 10/29/2024
Instrument ID: MSVOA_X BFB Injection Time: 08:30
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.5
75	30.0 - 60.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	73.3
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.5 (96.2) 1
177	5.0 - 9.0% of mass 176	4.7 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX043583.D	10/29/2024	09:29
VX1029WBL01	VX1029WBL01	VX043585.D	10/29/2024	10:31
VX1029WBS01	VX1029WBS01	VX043586.D	10/29/2024	10:57
VX1029WBSD01	VX1029WBSD01	VX043587.D	10/29/2024	11:20
TB-10252024	P4578-09	VX043591.D	10/29/2024	12:56
WB-305-SW	P4578-01	VX043597.D	10/29/2024	15:15
WB-305-SW-1	P4578-02	VX043598.D	10/29/2024	15:38



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
Lab File ID: VY019826.D BFB Injection Date: 10/09/2024
Instrument ID: MSVOA_Y BFB Injection Time: 09:33
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.4
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	76.9
175	5.0 - 9.0% of mass 174	5.6 (7.3) 1
176	95.0 - 101.0% of mass 174	73.9 (96.2) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY019827.D	10/09/2024	10:18
VSTDIC010	VSTDIC010	VY019828.D	10/09/2024	10:41
VSTDIC020	VSTDIC020	VY019829.D	10/09/2024	11:04
VSTDIC050	VSTDIC050	VY019830.D	10/09/2024	11:26
VSTDIC100	VSTDIC100	VY019831.D	10/09/2024	11:49
VSTDIC150	VSTDIC150	VY019832.D	10/09/2024	12:11



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
Lab File ID: VY020028.D BFB Injection Date: 10/28/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:55
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	24.5
75	30.0 - 60.0% of mass 95	57.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	72
175	5.0 - 9.0% of mass 174	5.7 (7.9) 1
176	95.0 - 101.0% of mass 174	68.9 (95.8) 1
177	5.0 - 9.0% of mass 176	4.5 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY020029.D	10/28/2024	09:29
VY1028SBL01	VY1028SBL01	VY020030.D	10/28/2024	09:58
VY1028SBS01	VY1028SBS01	VY020031.D	10/28/2024	10:40
VY1028SBSD01	VY1028SBSD01	VY020032.D	10/28/2024	11:02
WB-305-TOP	P4578-03	VY020033.D	10/28/2024	11:56
WB-305-TOP-1	P4578-04	VY020034.D	10/28/2024	12:19
WB-305-BOT-1	P4578-07	VY020035.D	10/28/2024	12:43



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
Lab File ID: VY020048.D BFB Injection Date: 10/29/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:58
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	24.9
75	30.0 - 60.0% of mass 95	59.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	71.8
175	5.0 - 9.0% of mass 174	5.8 (8) 1
176	95.0 - 101.0% of mass 174	68.4 (95.3) 1
177	5.0 - 9.0% of mass 176	4.8 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY020049.D	10/29/2024	09:31
VY1029SBL01	VY1029SBL01	VY020050.D	10/29/2024	10:01
VY1029SBS01	VY1029SBS01	VY020051.D	10/29/2024	11:04
WB-305-BOT	P4578-05	VY020062.D	10/29/2024	15:36

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
Lab File ID: VX043583.D Date Analyzed: 10/29/2024
Instrument ID: MSVOA_X Time Analyzed: 09:29
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	185040	5.54	317661	6.76	277122	10.06
UPPER LIMIT	370080	6.044	635322	7.257	554244	10.555
LOWER LIMIT	92520	5.044	158831	6.257	138561	9.555
EPA SAMPLE NO.						
WB-305-SW	142289	5.55	262462	6.76	231278	10.06
WB-305-SW-1	158213	5.55	288734	6.76	248859	10.06
TB-10252024	156843	5.54	288755	6.76	251324	10.06
VX1029WBL01	160199	5.55	295395	6.76	265502	10.06
VX1029WBS01	202431	5.54	352202	6.76	294857	10.06
VX1029WBSD01	180366	5.55	312050	6.76	270005	10.06

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
 Lab File ID: VX043583.D Date Analyzed: 10/29/2024
 Instrument ID: MSVOA_X Time Analyzed: 09:29
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	136145	12.018				
UPPER LIMIT	272290	12.518				
LOWER LIMIT	68072.5	11.518				
EPA SAMPLE NO.						
WB-305-SW	100896	12.02				
WB-305-SW-1	107787	12.02				
TB-10252024	105429	12.02				
VX1029WBL01	128354	12.02				
VX1029WBS01	142936	12.02				
VX1029WBSD01	131226	12.02				

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
 Lab File ID: VY020029.D Date Analyzed: 10/28/2024
 Instrument ID: MSVOA_Y Time Analyzed: 09:29
 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	206029	7.72	357320	8.63	306579	11.42
UPPER LIMIT	412058	8.219	714640	9.127	613158	11.92
LOWER LIMIT	103015	7.219	178660	8.127	153290	10.92
EPA SAMPLE NO.						
WB-305-TOP	27473 *	7.71	45281 *	8.62	32489 *	11.42
WB-305-TOP-1	189016	7.71	386680	8.62	354785	11.41
WB-305-BOT-1	212409	7.71	437109	8.62	398917	11.41
VY1028SBL01	207569	7.72	438255	8.62	384846	11.42
VY1028SBS01	208423	7.72	369952	8.62	306417	11.42
VY1028SBSD01	200597	7.71	351453	8.62	295814	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
 Lab File ID: VY020029.D Date Analyzed: 10/28/2024
 Instrument ID: MSVOA_Y Time Analyzed: 09:29
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	147527	13.352				
UPPER LIMIT	295054	13.852				
LOWER LIMIT	73763.5	12.852				
EPA SAMPLE NO.						
WB-305-TOP	8668 *	13.36				
WB-305-TOP-1	133013	13.35				
WB-305-BOT-1	145301	13.35				
VY1028SBL01	125121	13.35				
VY1028SBS01	143516	13.35				
VY1028SBSD01	146119	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
Lab File ID: VY020049.D Date Analyzed: 10/29/2024
Instrument ID: MSVOA_Y Time Analyzed: 09:31
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	196359	7.72	345491	8.62	298572	11.42
UPPER LIMIT	392718	8.219	690982	9.122	597144	11.92
LOWER LIMIT	98179.5	7.219	172746	8.122	149286	10.92
EPA SAMPLE NO.						
WB-305-BOT	171253	7.71	364648	8.62	339109	11.41
VY1029SBL01	196117	7.71	412090	8.62	365725	11.42
VY1029SBS01	186283	7.72	334192	8.62	285725	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578
 Lab File ID: VY020049.D Date Analyzed: 10/29/2024
 Instrument ID: MSVOA_Y Time Analyzed: 09:31
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	148124	13.352				
UPPER LIMIT	296248	13.852				
LOWER LIMIT	74062	12.852				
EPA SAMPLE NO.						
WB-305-BOT	127440	13.35				
VY1029SBL01	118867	13.35				
VY1029SBS01	134900	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	10/25/24	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	10/25/24	
Client Sample ID:	WB-305-SW		SDG No.:	P4578	
Lab Sample ID:	P4578-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043597.D	1		10/29/24 15:15	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	2.20	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.36	J	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043597.D	1		10/29/24 15:15	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.0		70 (74) - 130 (125)	88%	SPK: 50
1868-53-7	Dibromofluoromethane	46.8		70 (75) - 130 (124)	94%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	142000	5.55			
540-36-3	1,4-Difluorobenzene	262000	6.757			
3114-55-4	Chlorobenzene-d5	231000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	101000	12.024			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043597.D	1		10/29/24 15:15	VX102924

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_X\Data\VX102924\
 Data File : VX043597.D
 Acq On : 29 Oct 2024 15:15
 Operator : JC/MD
 Sample : P4578-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WB-305-SW

Quant Time: Oct 30 01:33:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration

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

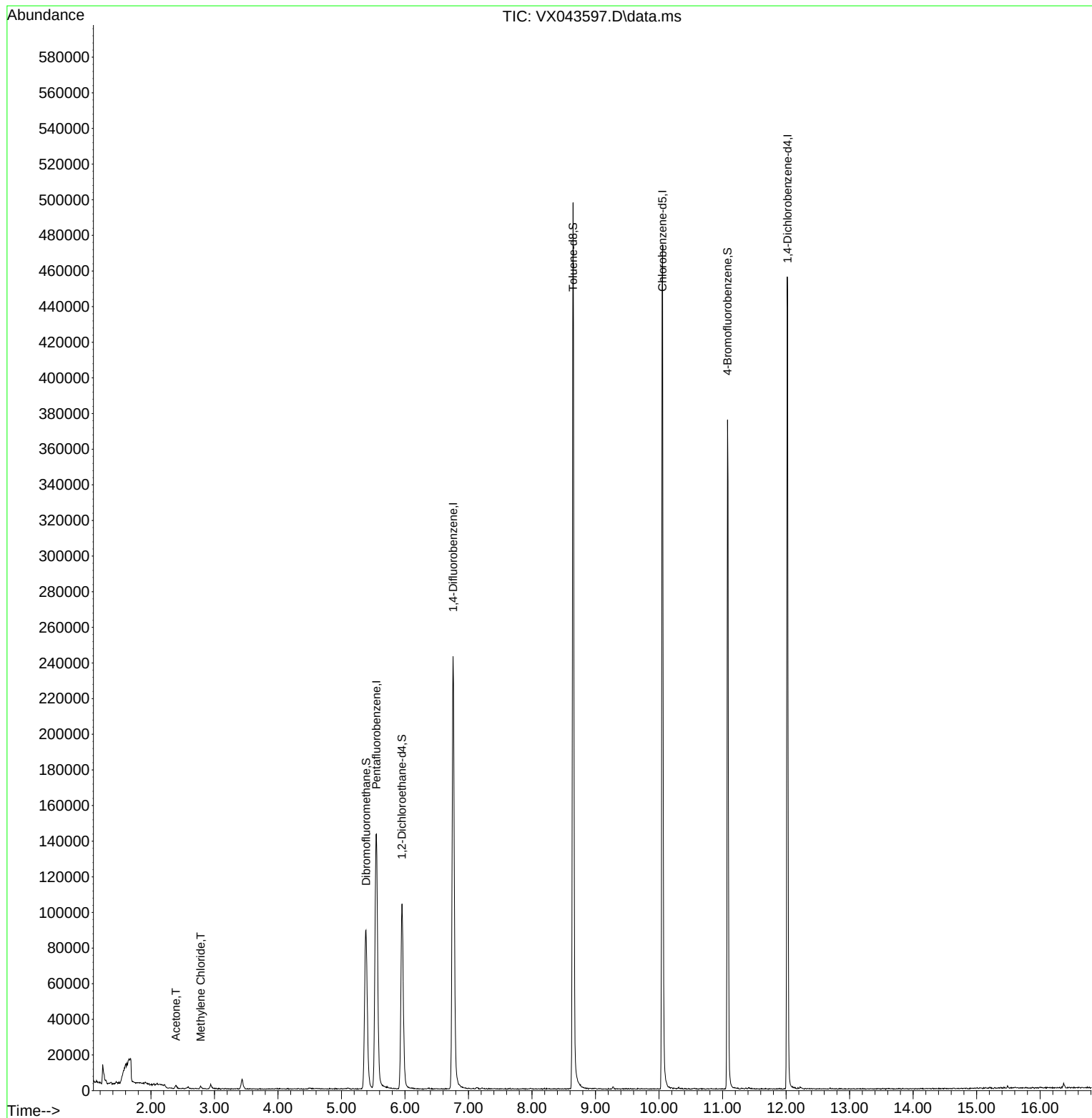
Internal Standards						
1) Pentafluorobenzene	5.550	168	142289	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	262462	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	231278	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	100896	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	99807	43.991	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	87.980%
35) Dibromofluoromethane	5.385	113	83334	46.824	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.640%
50) Toluene-d8	8.647	98	314533	51.054	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.100%
62) 4-Bromofluorobenzene	11.079	95	108691	47.611	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.220%
Target Compounds						
16) Acetone	2.392	43	2008	2.229	ug/l	90
20) Methylene Chloride	2.782	84	694	0.357	ug/l #	72

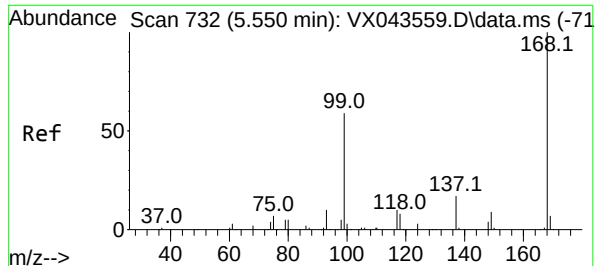
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043597.D
Acq On : 29 Oct 2024 15:15
Operator : JC/MD
Sample : P4578-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Quant Time: Oct 30 01:33:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

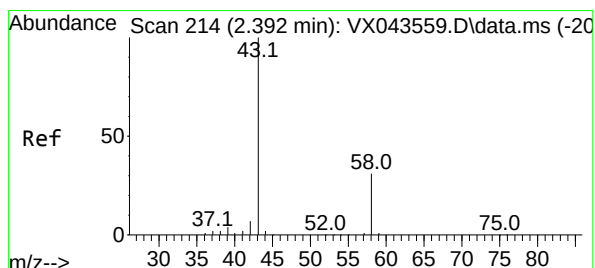
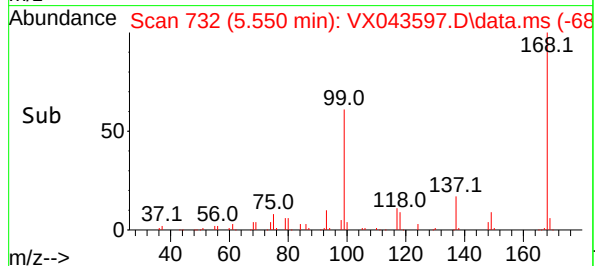
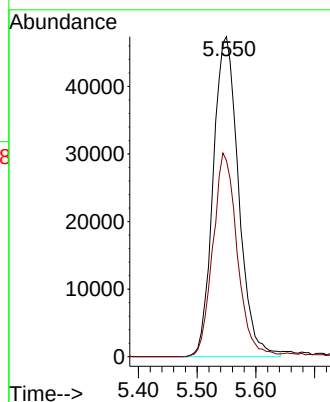
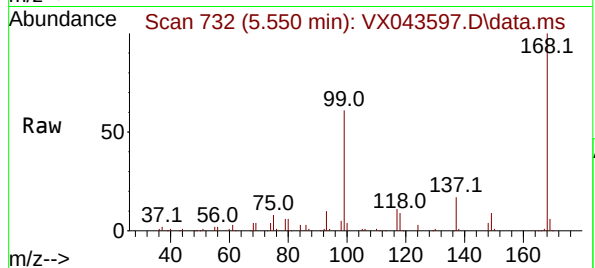




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

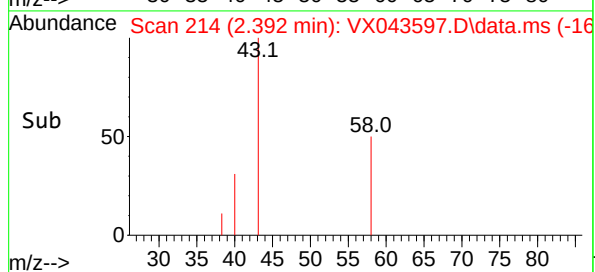
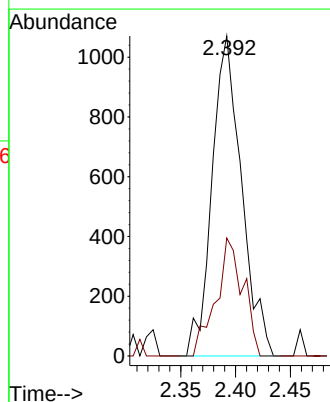
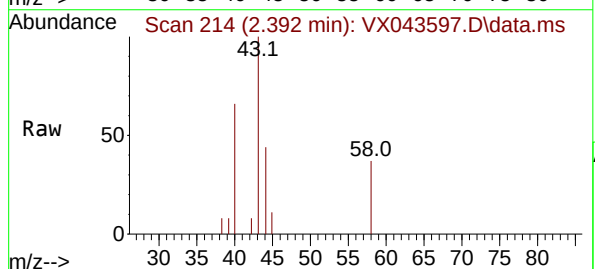
Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

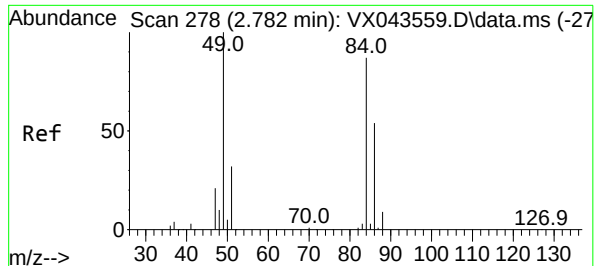
Tgt Ion:168 Resp: 142289
Ion Ratio Lower Upper
168 100
99 61.3 52.6 78.8



#16
Acetone
Concen: 2.229 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX043597.D
Acq: 29 Oct 2024 15:15

Tgt Ion: 43 Resp: 2008
Ion Ratio Lower Upper
43 100
58 36.9 25.1 37.7





#20

Methylene Chloride

Concen: 0.357 ug/l

RT: 2.782 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX043597.D

Acq: 29 Oct 2024 15:15

Instrument :

MSVOA_X

ClientSampleId :

WB-305-SW

Tgt Ion: 84 Resp: 694

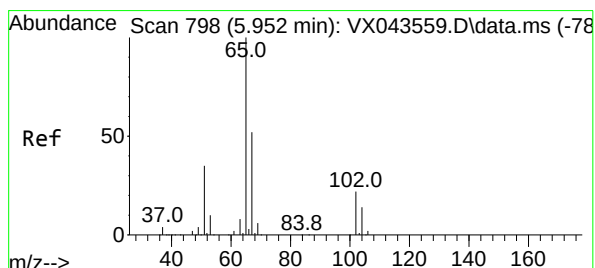
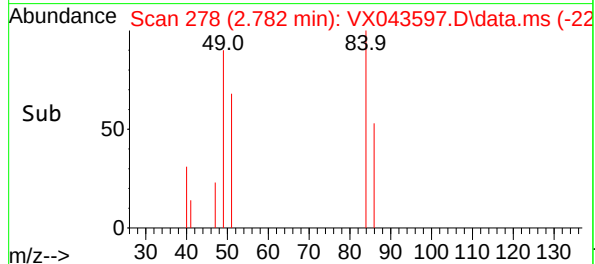
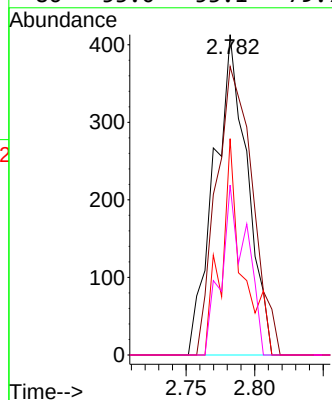
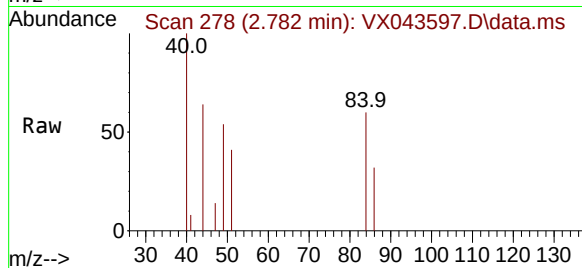
Ion Ratio Lower Upper

84 100

49 90.1 97.0 145.6#

51 67.6 29.8 44.8#

86 53.0 53.1 79.7#



#33

1,2-Dichloroethane-d4

Concen: 43.991 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX043597.D

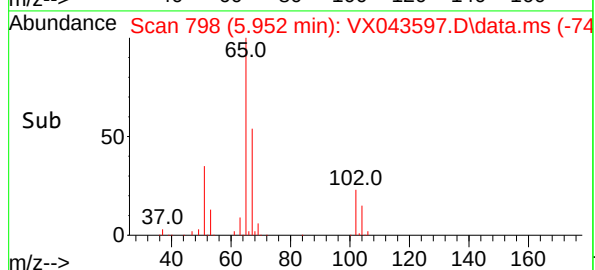
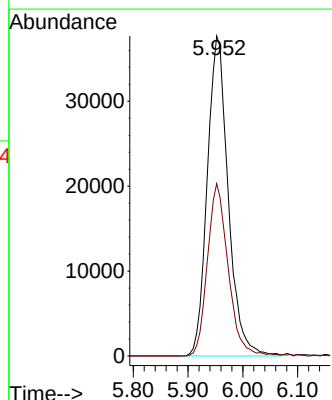
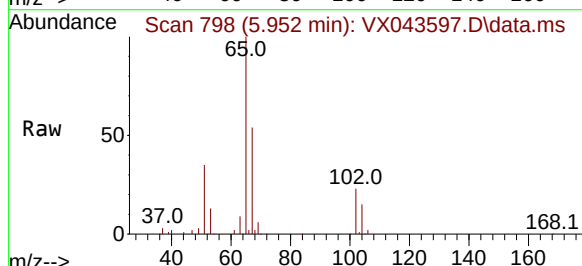
Acq: 29 Oct 2024 15:15

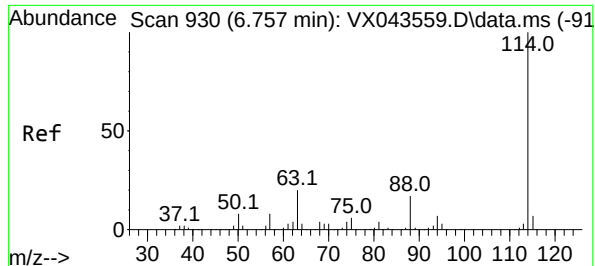
Tgt Ion: 65 Resp: 99807

Ion Ratio Lower Upper

65 100

67 53.2 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX043597.D

Acq: 29 Oct 2024 15:15

Instrument :

MSVOA_X

ClientSampleId :

WB-305-SW

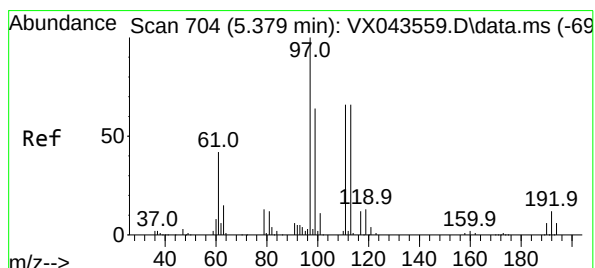
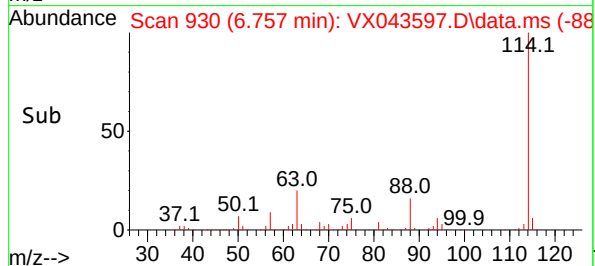
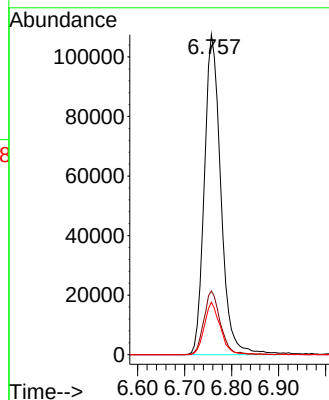
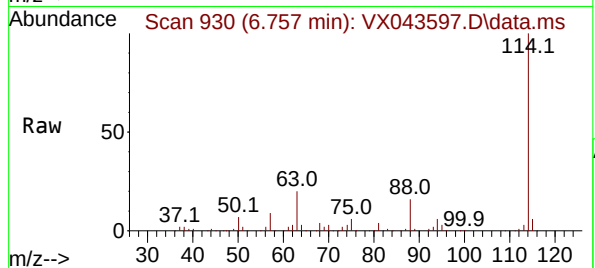
Tgt Ion:114 Resp: 262462

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.2

88 16.4 0.0 34.0



#35

Dibromofluoromethane

Concen: 46.824 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX043597.D

Acq: 29 Oct 2024 15:15

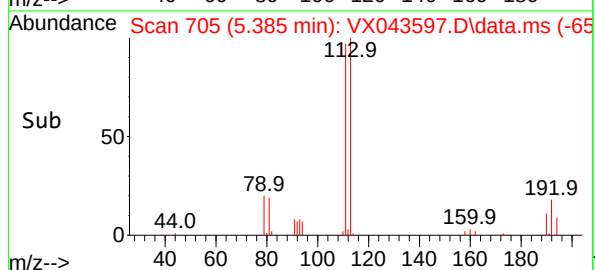
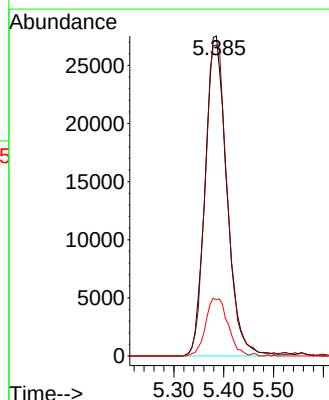
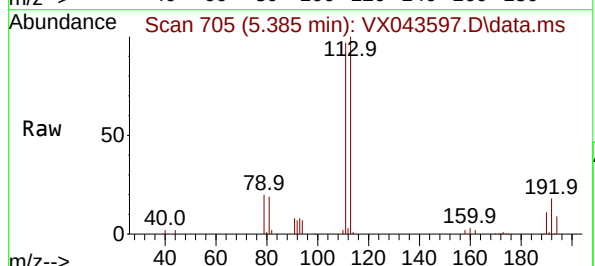
Tgt Ion:113 Resp: 83334

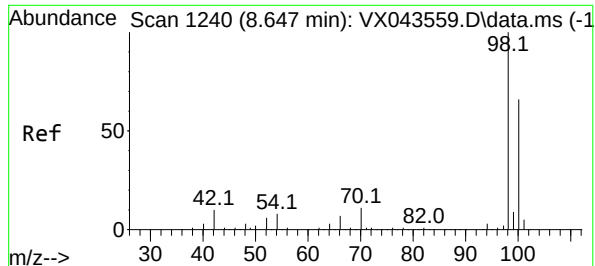
Ion Ratio Lower Upper

113 100

111 99.6 81.4 122.0

192 18.5 14.1 21.1





#50

Toluene-d8

Concen: 51.054 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX043597.D

Acq: 29 Oct 2024 15:15

Instrument :

MSVOA_X

ClientSampleId :

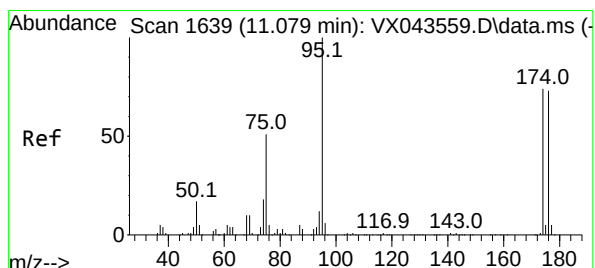
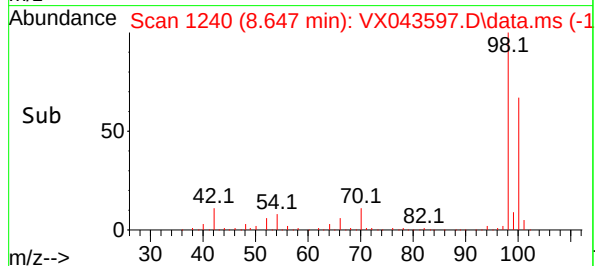
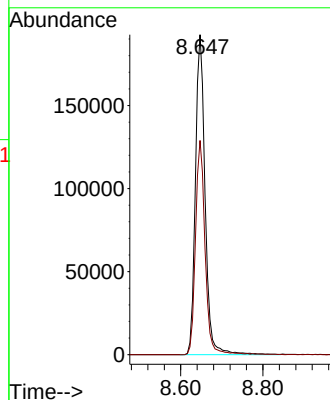
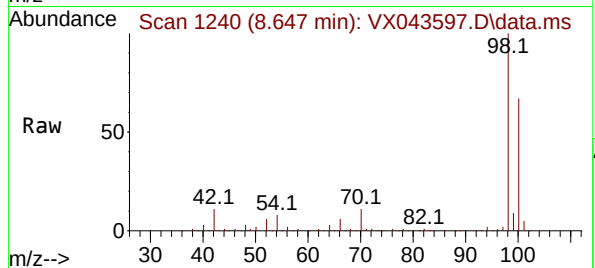
WB-305-SW

Tgt Ion: 98 Resp: 314533

Ion Ratio Lower Upper

98 100

100 66.4 53.4 80.2



#62

4-Bromofluorobenzene

Concen: 47.611 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX043597.D

Acq: 29 Oct 2024 15:15

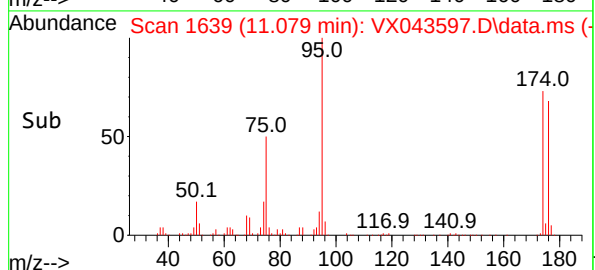
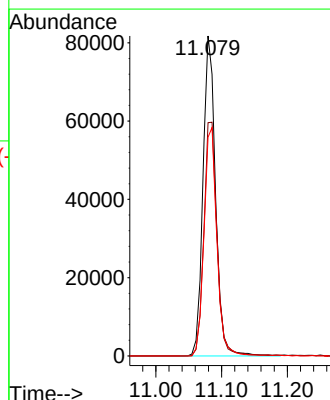
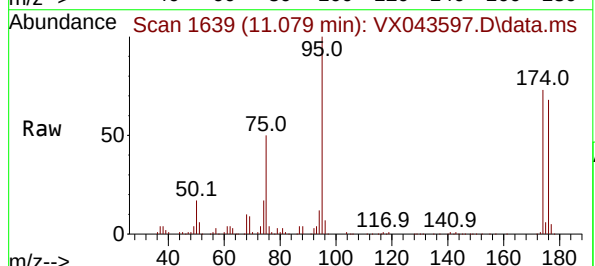
Tgt Ion: 95 Resp: 108691

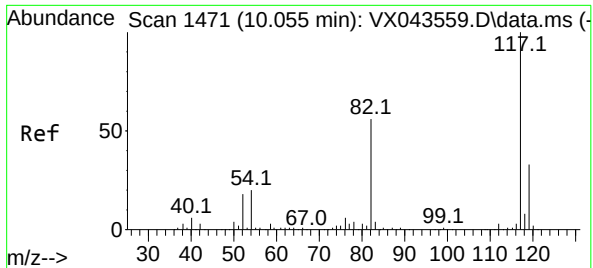
Ion Ratio Lower Upper

95 100

174 76.2 0.0 146.6

176 72.9 0.0 139.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX043597.D

Acq: 29 Oct 2024 15:15

Instrument :

MSVOA_X

ClientSampleId :

WB-305-SW

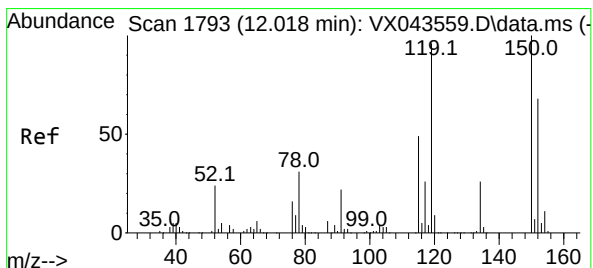
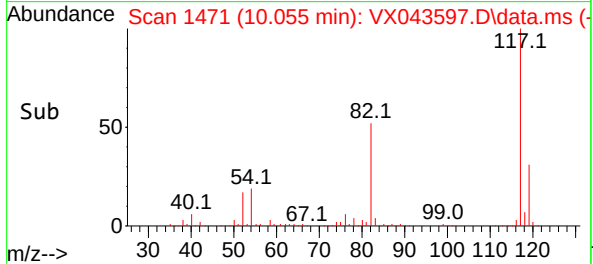
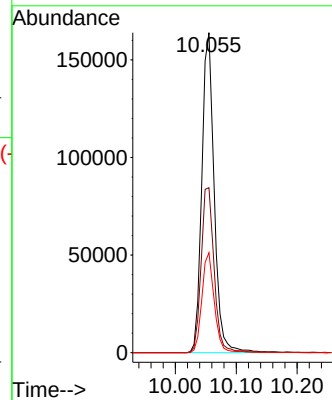
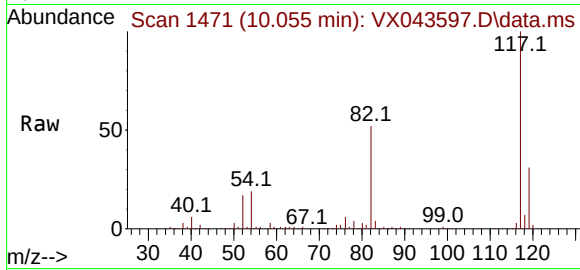
Tgt Ion:117 Resp: 231278

Ion Ratio Lower Upper

117 100

82 51.6 42.1 63.1

119 31.3 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX043597.D

Acq: 29 Oct 2024 15:15

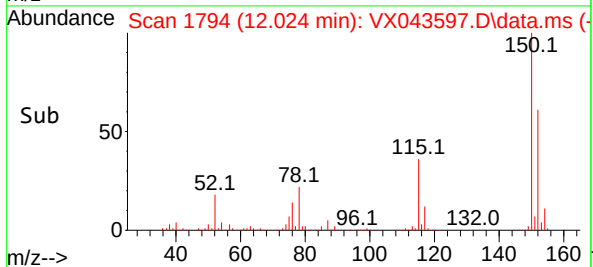
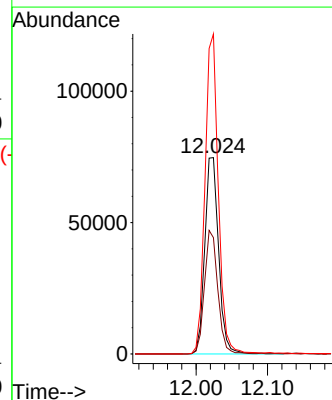
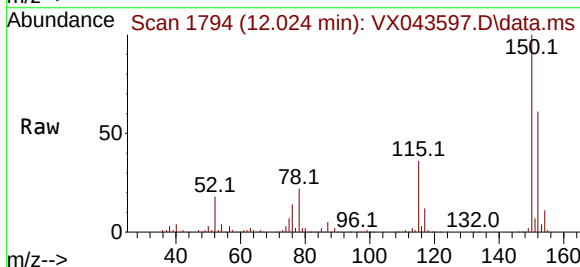
Tgt Ion:152 Resp: 100896

Ion Ratio Lower Upper

152 100

115 60.3 42.9 128.7

150 156.0 0.0 343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043597.D
Acq On : 29 Oct 2024 15:15
Operator : JC/MD
Sample : P4578-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M

Title : SW846 8260

Signal : TIC: VX043597.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	22	25	32	rBV2	10771	18453	2.28%	0.436%
2	1.605	70	85	86	rBV7	11045	36857	4.55%	0.871%
3	3.434	378	385	394	rBV5	5455	12146	1.50%	0.287%
4	5.385	694	705	721	rBV	89072	268161	33.09%	6.338%
5	5.550	721	732	747	rBV	142338	421243	51.98%	9.956%
6	5.952	789	798	813	rBV	103735	275217	33.96%	6.505%
7	6.757	920	930	951	rBV	242616	593865	73.28%	14.036%
8	8.647	1233	1240	1258	rBV	497302	810382	100.00%	19.153%
9	10.055	1465	1471	1487	rBV	473885	689505	85.08%	16.296%
10	11.079	1634	1639	1653	rBV	375302	503583	62.14%	11.902%
11	12.018	1788	1793	1806	rBV	455821	601657	74.24%	14.220%

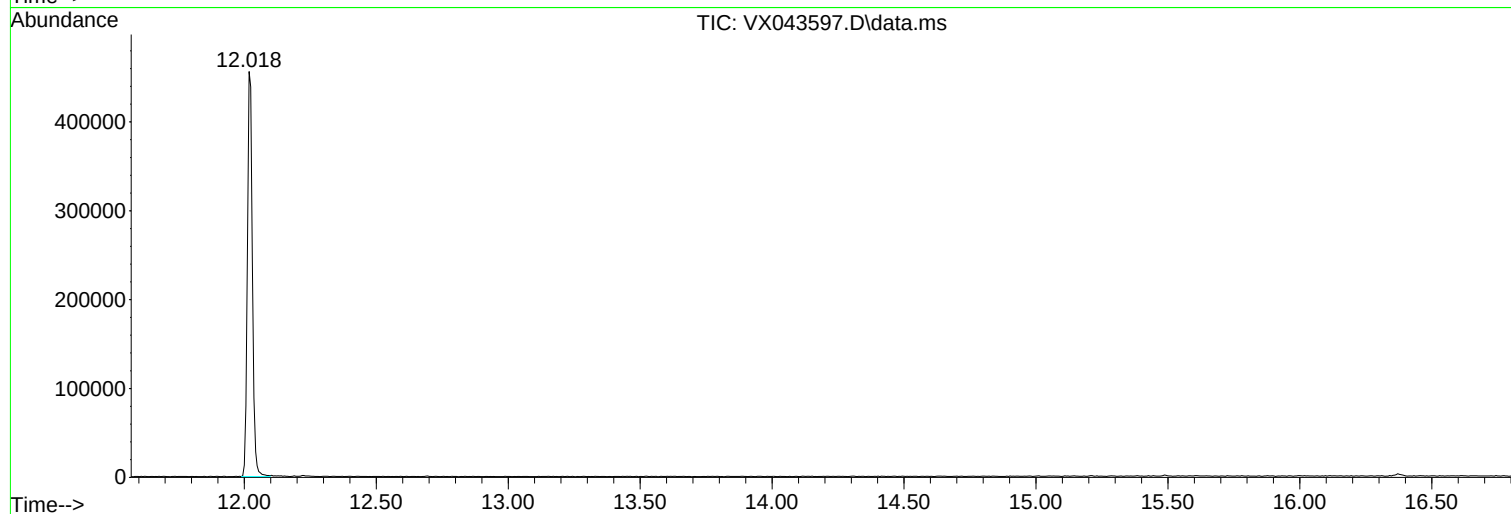
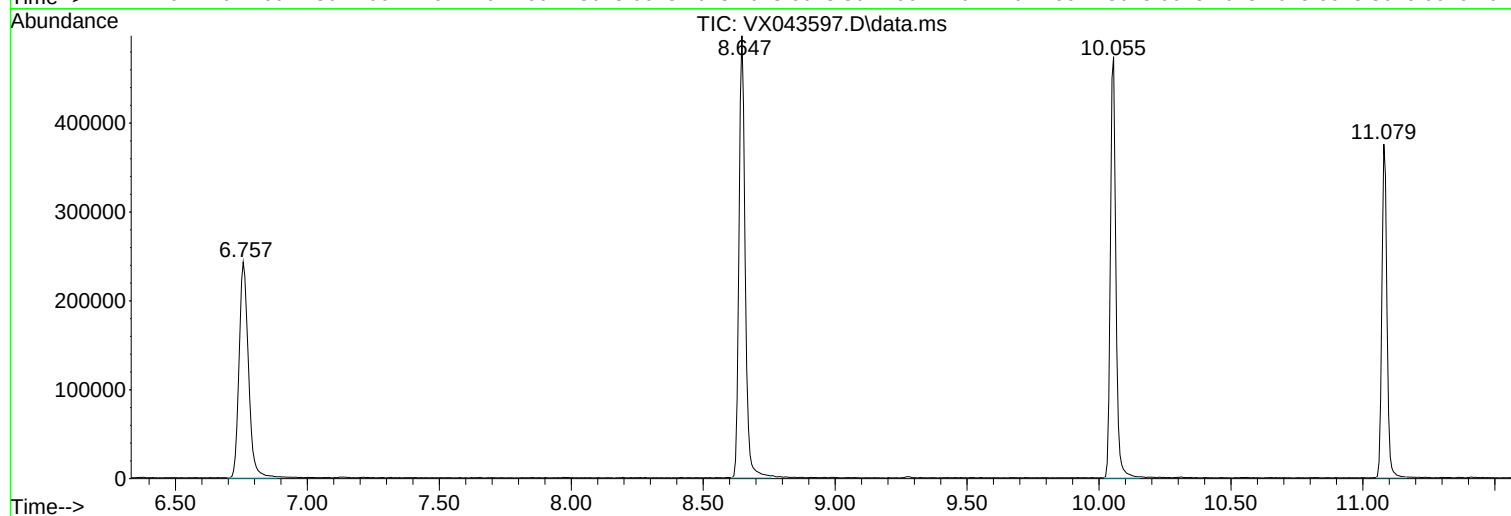
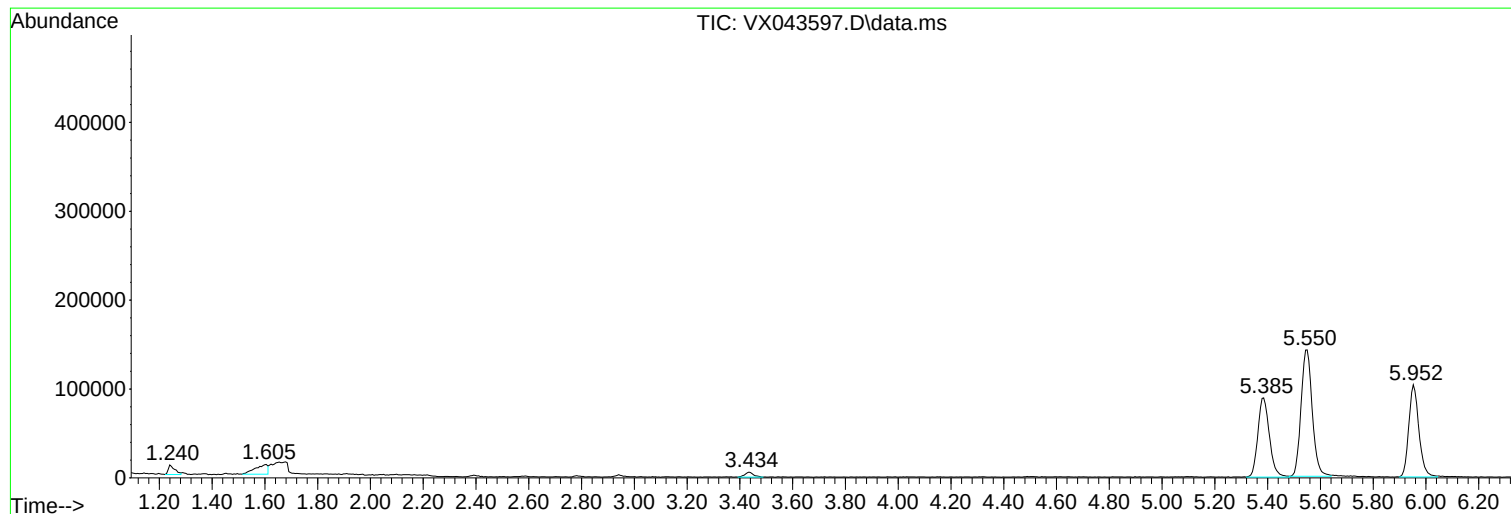
Sum of corrected areas: 4231069

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043597.D
Acq On : 29 Oct 2024 15:15
Operator : JC/MD
Sample : P4578-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043597.D
Acq On : 29 Oct 2024 15:15
Operator : JC/MD
Sample : P4578-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.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_X\Data\VX102924\
Data File : VX043597.D
Acq On : 29 Oct 2024 15:15
Operator : JC/MD
Sample : P4578-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	10/25/24	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	10/25/24	
Client Sample ID:	WB-305-SW-1		SDG No.:	P4578	
Lab Sample ID:	P4578-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043598.D	1		10/29/24 15:38	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	2.40	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043598.D	1		10/29/24 15:38	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.3		70 (74) - 130 (125)	87%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 (75) - 130 (124)	92%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		70 (77) - 130 (121)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	158000	5.55			
540-36-3	1,4-Difluorobenzene	289000	6.757			
3114-55-4	Chlorobenzene-d5	249000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	108000	12.024			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043598.D	1		10/29/24 15:38	VX102924

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_X\Data\VX102924\
 Data File : VX043598.D
 Acq On : 29 Oct 2024 15:38
 Operator : JC/MD
 Sample : P4578-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WB-305-SW-1

Quant Time: Oct 30 01:33:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration

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

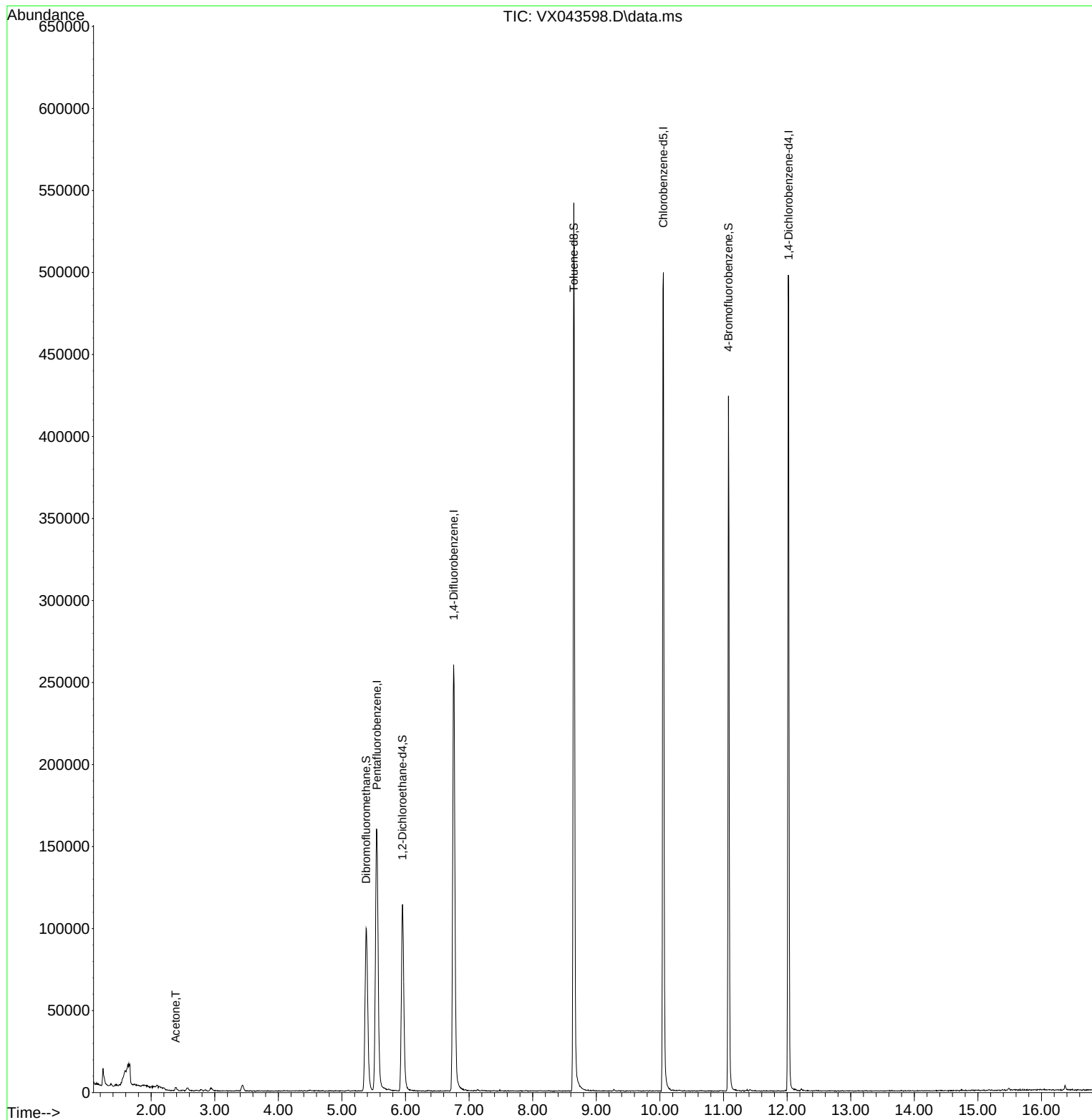
Internal Standards						
1) Pentafluorobenzene	5.550	168	158213	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	288734	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	248859	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	107787	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109236	43.300	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	86.600%
35) Dibromofluoromethane	5.379	113	90041	45.989	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.980%
50) Toluene-d8	8.647	98	340477	50.236	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.480%
62) 4-Bromofluorobenzene	11.079	95	116872	46.536	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	93.080%
Target Compounds						
16) Acetone	2.386	43	2452	2.448	ug/l	Qvalue # 87

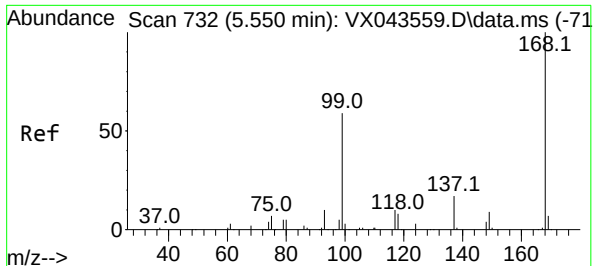
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043598.D
Acq On : 29 Oct 2024 15:38
Operator : JC/MD
Sample : P4578-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Quant Time: Oct 30 01:33:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

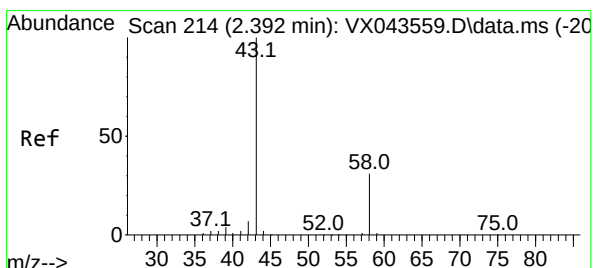
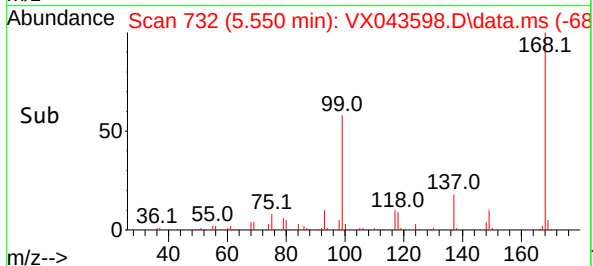
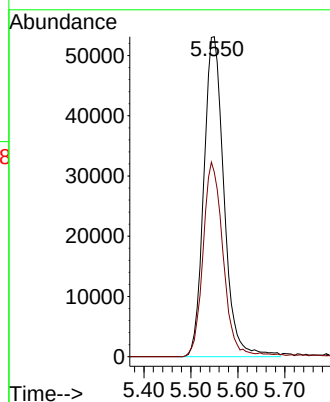
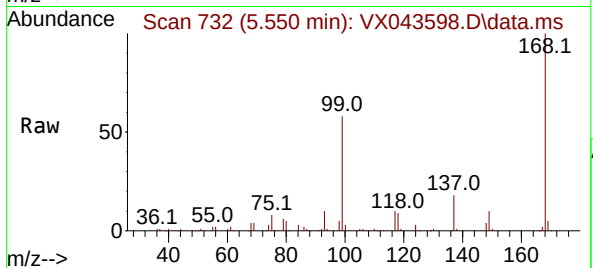




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

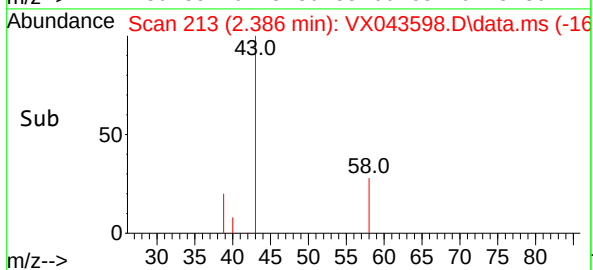
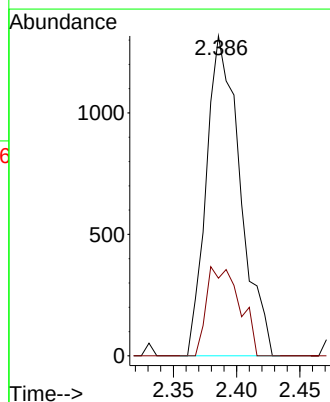
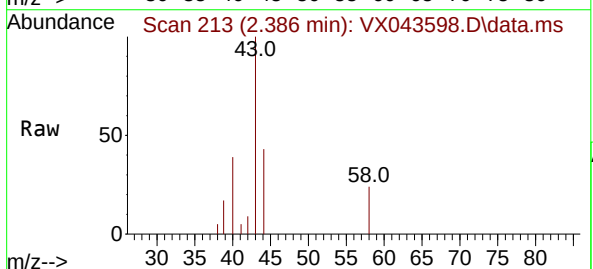
Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

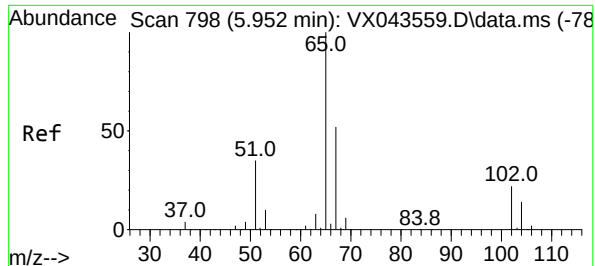
Tgt Ion:168 Resp: 158213
Ion Ratio Lower Upper
168 100
99 57.6 52.6 78.8



#16
Acetone
Concen: 2.448 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.012 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

Tgt Ion: 43 Resp: 2452
Ion Ratio Lower Upper
43 100
58 24.3 25.1 37.7#





#33

1,2-Dichloroethane-d4

Concen: 43.300 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX043598.D

Acq: 29 Oct 2024 15:38

Instrument :

MSVOA_X

ClientSampleId :

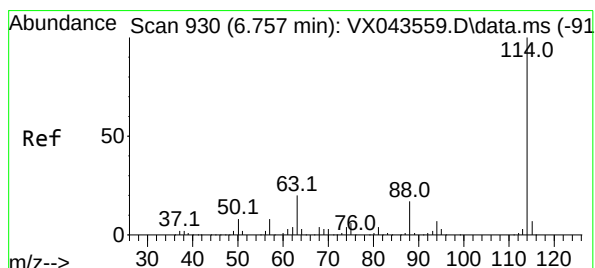
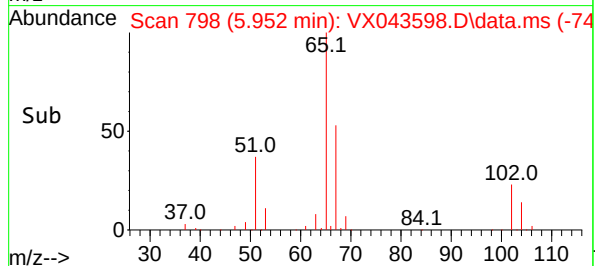
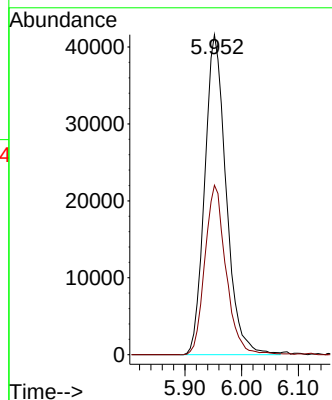
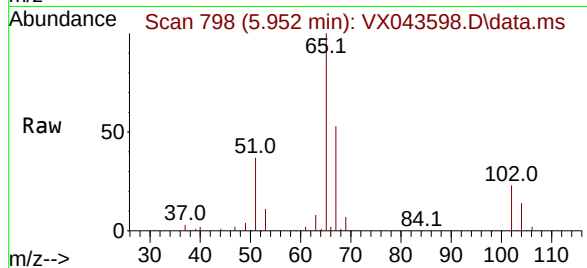
WB-305-SW-1

Tgt Ion: 65 Resp: 109236

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX043598.D

Acq: 29 Oct 2024 15:38

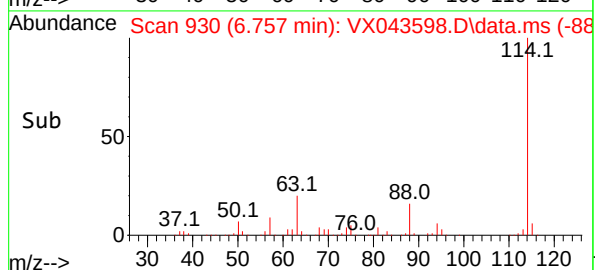
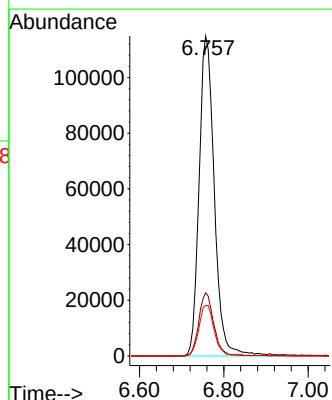
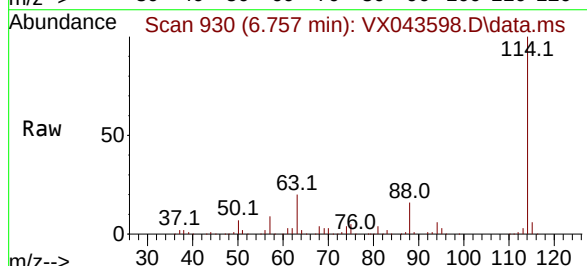
Tgt Ion: 114 Resp: 288734

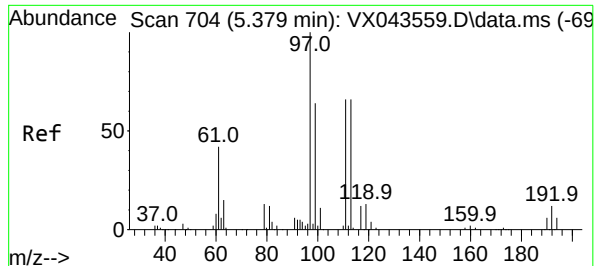
Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.2

88 15.8 0.0 34.0





#35

Dibromofluoromethane

Concen: 45.989 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX043598.D

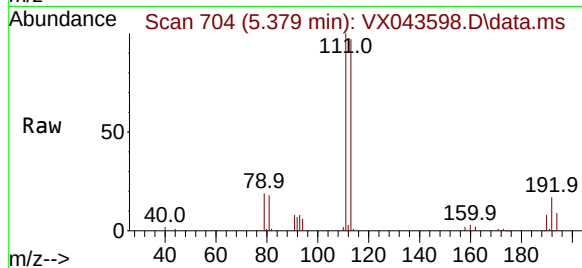
Acq: 29 Oct 2024 15:38

Instrument :

MSVOA_X

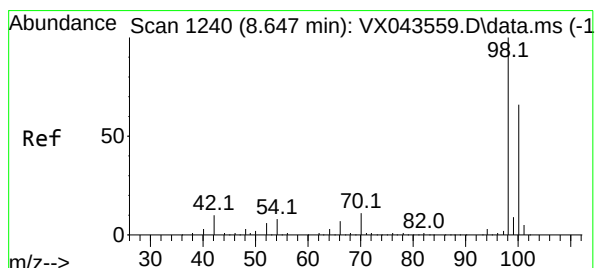
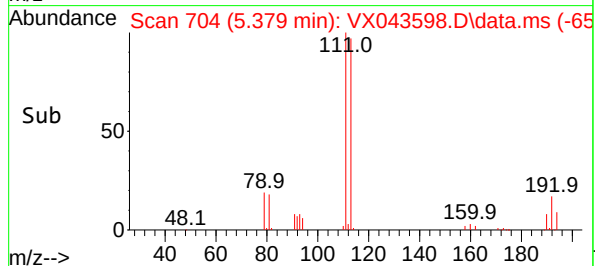
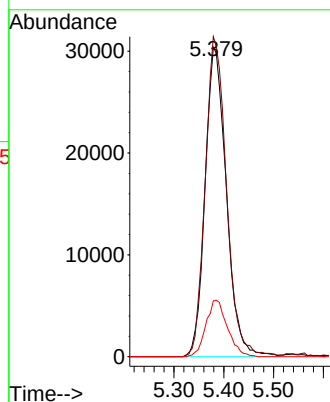
ClientSampleId :

WB-305-SW-1



Tgt Ion:113 Resp: 90041

Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.4	122.0
192	18.4	14.1	21.1



#50

Toluene-d8

Concen: 50.236 ug/l

RT: 8.647 min Scan# 1240

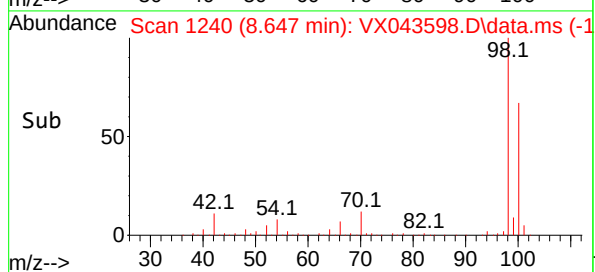
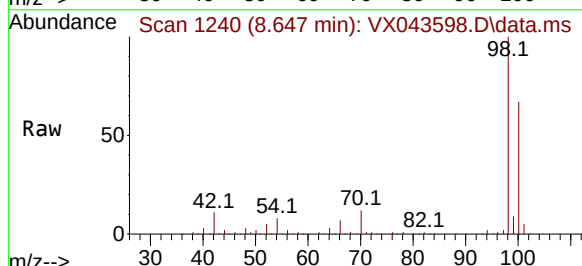
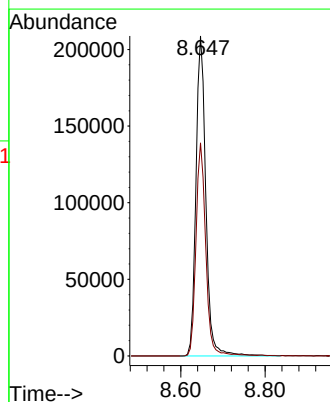
Delta R.T. 0.000 min

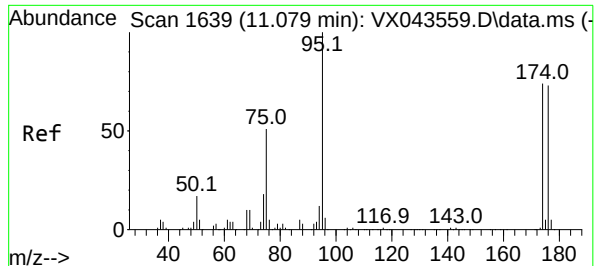
Lab File: VX043598.D

Acq: 29 Oct 2024 15:38

Tgt Ion: 98 Resp: 340477

Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.4	80.2

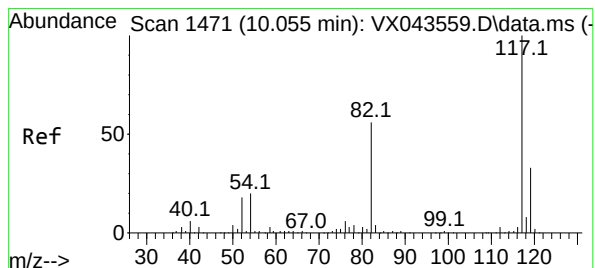
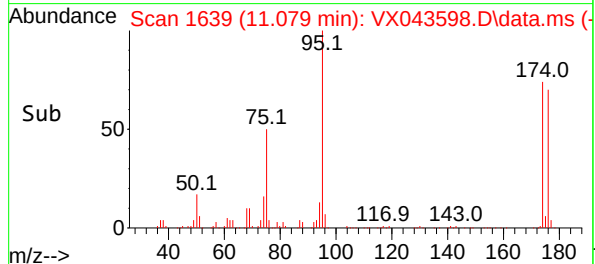
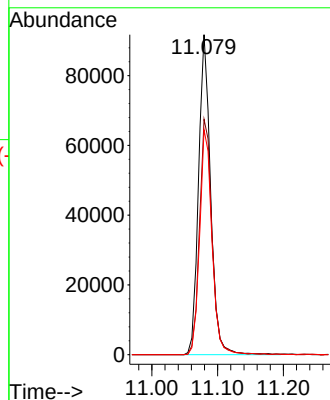
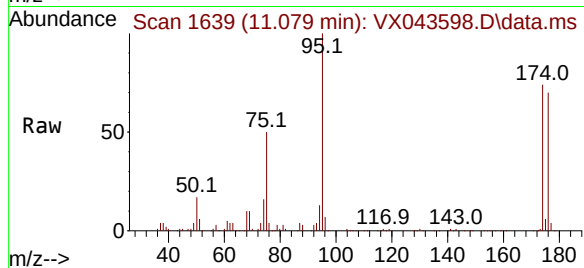




#62
4-Bromofluorobenzene
Concen: 46.536 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

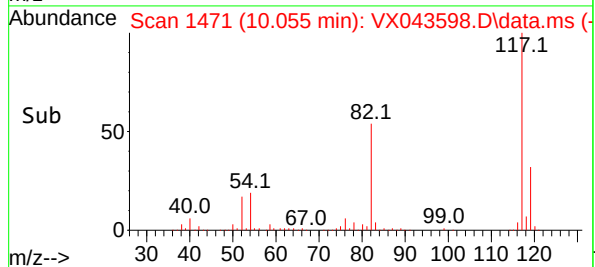
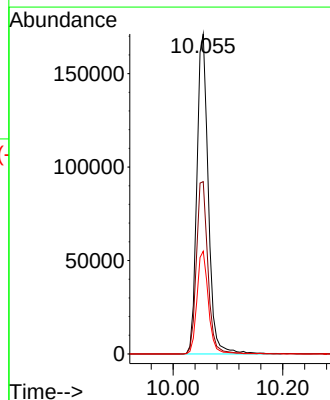
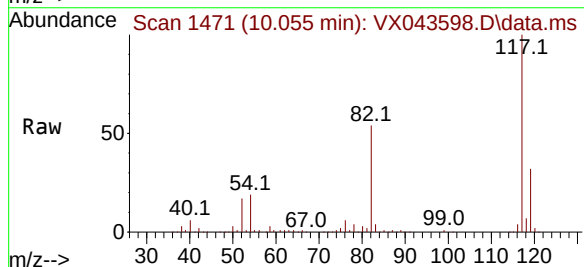
Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

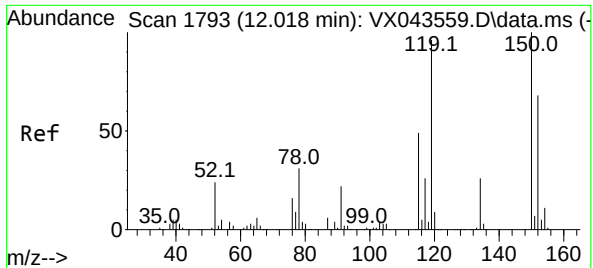
Tgt Ion: 95 Resp: 116872
Ion Ratio Lower Upper
95 100
174 76.9 0.0 146.6
176 72.3 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX043598.D
Acq: 29 Oct 2024 15:38

Tgt Ion: 117 Resp: 248859
Ion Ratio Lower Upper
117 100
82 53.9 42.1 63.1
119 32.1 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX043598.D

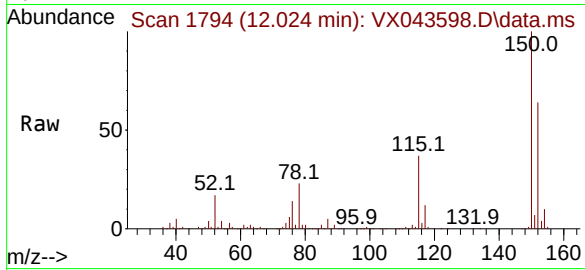
Acq: 29 Oct 2024 15:38

Instrument :

MSVOA_X

ClientSampleId :

WB-305-SW-1



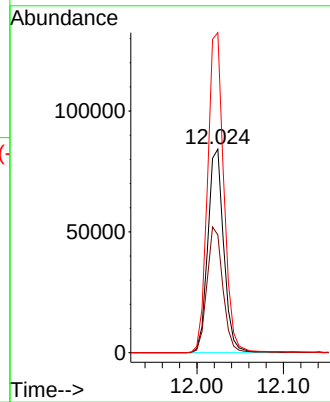
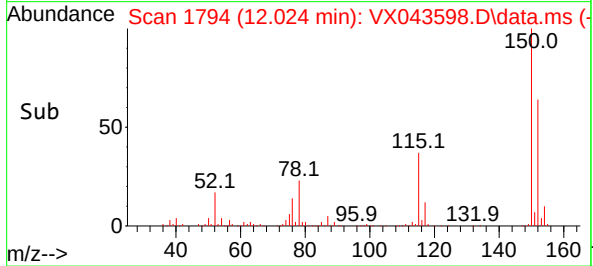
Tgt Ion:152 Resp: 107787

Ion Ratio Lower Upper

152 100

115 62.0 42.9 128.7

150 160.6 0.0 343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043598.D
Acq On : 29 Oct 2024 15:38
Operator : JC/MD
Sample : P4578-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Title : SW846 8260

Signal : TIC: VX043598.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.246	22	26	32	rBV2	10366	17874	2.02%	0.390%
2	1.587	71	82	85	rBV5	8661	27255	3.07%	0.595%
3	5.379	694	704	720	rBV	99125	294696	33.25%	6.436%
4	5.544	721	731	749	rBV	159006	464543	52.41%	10.145%
5	5.952	789	798	816	rBV	113733	303110	34.20%	6.620%
6	6.757	920	930	952	rBV	259949	650873	73.43%	14.215%
7	8.647	1233	1240	1267	rBV	541601	886346	100.00%	19.357%
8	10.055	1465	1471	1484	rBV	499121	741388	83.65%	16.191%
9	11.079	1634	1639	1652	rBV	423606	543022	61.27%	11.859%
10	12.018	1788	1793	1804	rBV	497447	649800	73.31%	14.191%

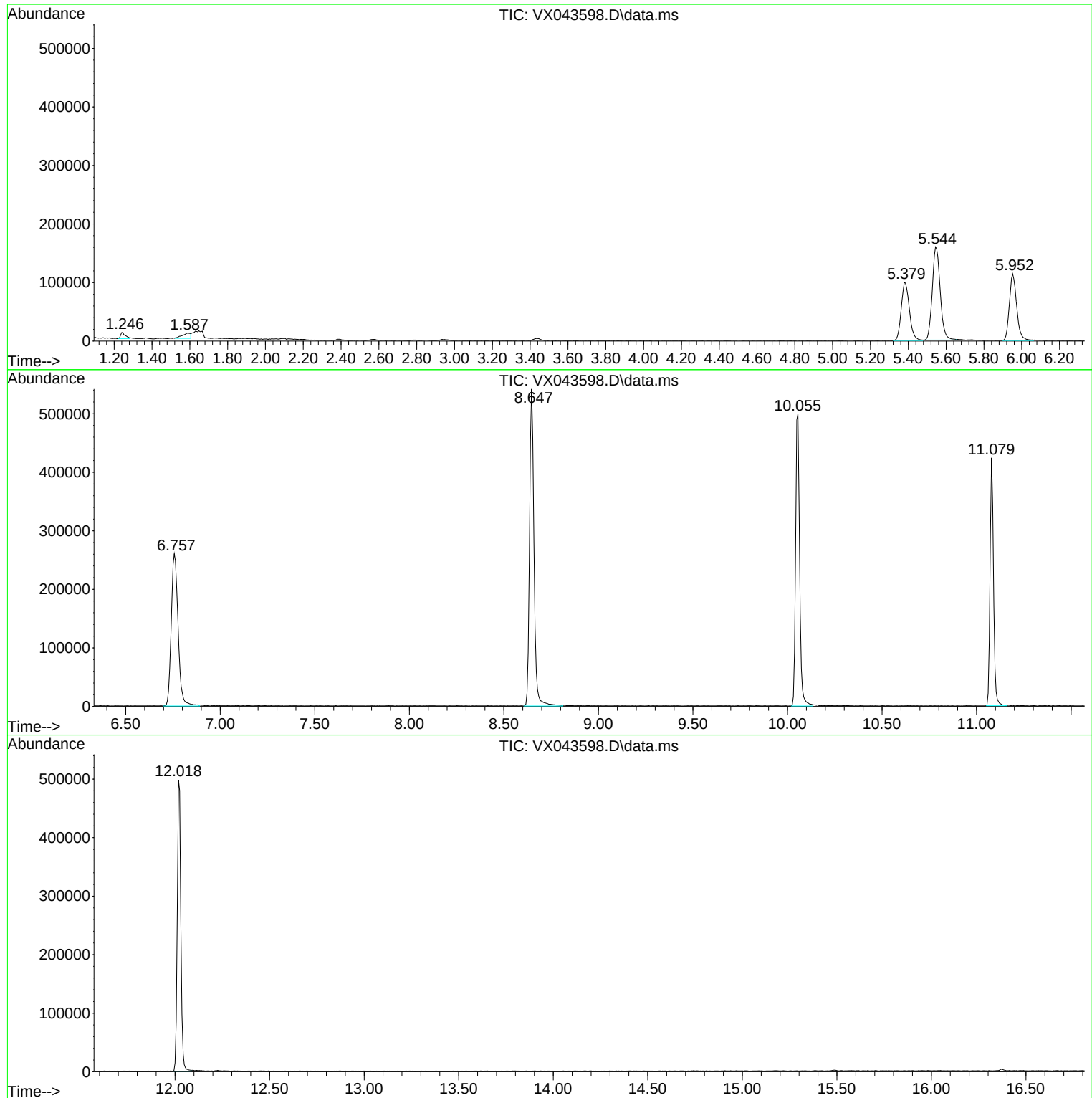
Sum of corrected areas: 4578907

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043598.D
Acq On : 29 Oct 2024 15:38
Operator : JC/MD
Sample : P4578-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043598.D
Acq On : 29 Oct 2024 15:38
Operator : JC/MD
Sample : P4578-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.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_X\Data\VX102924\
Data File : VX043598.D
Acq On : 29 Oct 2024 15:38
Operator : JC/MD
Sample : P4578-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.8
Sample Wt/Vol:	5.99 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
VY020033.D	1		10/28/24 11:56	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.60	U	2.60	7.80	ug/Kg
74-87-3	Chloromethane	1.80	U	1.80	7.80	ug/Kg
75-01-4	Vinyl Chloride	1.20	U	1.20	7.80	ug/Kg
74-83-9	Bromomethane	1.60	U	1.60	7.80	ug/Kg
75-00-3	Chloroethane	1.60	U	1.60	7.80	ug/Kg
75-69-4	Trichlorofluoromethane	1.40	U	1.40	7.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.70	U	1.70	7.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	7.80	ug/Kg
67-64-1	Acetone	80.6		9.70	38.8	ug/Kg
75-15-0	Carbon Disulfide	2.00	U	2.00	7.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.00	U	1.00	7.80	ug/Kg
79-20-9	Methyl Acetate	54.2		2.80	7.80	ug/Kg
75-09-2	Methylene Chloride	5.30	U	5.30	15.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.30	U	1.30	7.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.98	U	0.98	7.80	ug/Kg
110-82-7	Cyclohexane	1.10	U	1.10	7.80	ug/Kg
78-93-3	2-Butanone	18.5	J	8.80	38.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.30	U	1.30	7.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.95	U	0.95	7.80	ug/Kg
74-97-5	Bromochloromethane	3.80	U	3.80	7.80	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	7.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	7.80	ug/Kg
108-87-2	Methylcyclohexane	2.30	J	1.30	7.80	ug/Kg
71-43-2	Benzene	1.10	U	1.10	7.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.95	U	0.95	7.80	ug/Kg
79-01-6	Trichloroethene	1.20	U	1.20	7.80	ug/Kg
78-87-5	1,2-Dichloropropane	1.00	U	1.00	7.80	ug/Kg
75-27-4	Bromodichloromethane	0.87	U	0.87	7.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.70	U	6.70	38.8	ug/Kg
108-88-3	Toluene	20.4		1.00	7.80	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.8
Sample Wt/Vol:	5.99	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020033.D	1		10/28/24 11:56	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.93	U	0.93	7.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.88	U	0.88	7.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.30	U	1.30	7.80	ug/Kg
591-78-6	2-Hexanone	7.40	U	7.40	38.8	ug/Kg
124-48-1	Dibromochloromethane	1.00	U	1.00	7.80	ug/Kg
106-93-4	1,2-Dibromoethane	1.20	U	1.20	7.80	ug/Kg
127-18-4	Tetrachloroethene	1.40	U	1.40	7.80	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	7.80	ug/Kg
100-41-4	Ethyl Benzene	1.60	J	0.96	7.80	ug/Kg
179601-23-1	m/p-Xylenes	5.20	J	2.10	15.5	ug/Kg
95-47-6	o-Xylene	5.40	J	1.10	7.80	ug/Kg
100-42-5	Styrene	0.93	U	0.93	7.80	ug/Kg
75-25-2	Bromoform	1.30	U	1.30	7.80	ug/Kg
98-82-8	Isopropylbenzene	7.10	J	1.00	7.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.70	U	1.70	7.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	J	1.10	7.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	7.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.92	U	0.92	7.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.40	U	2.40	7.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.20	U	1.20	7.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.20	U	1.20	7.80	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	40.1		70 (50) - 130 (163)	80%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 (54) - 130 (147)	92%	SPK: 50
2037-26-5	Toluene-d8	47.1		70 (58) - 130 (134)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	28.8	*	70 (29) - 130 (146)	58%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	27500	7.713
540-36-3	1,4-Difluorobenzene	45300	8.622
3114-55-4	Chlorobenzene-d5	32500	11.42
3855-82-1	1,4-Dichlorobenzene-d4	8670	13.359

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.8
Sample Wt/Vol:	5.99 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
VY020033.D	1		10/28/24 11:56	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
123-91-1	1,4-Dioxane	200	J		9.22	ug/Kg
103-65-1	n-propylbenzene	2.70	J		12.6	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	9.50	J		12.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	47.8	J		13.0	ug/Kg
135-98-8	sec-Butylbenzene	4.40	J		13.2	ug/Kg
99-87-6	p-Isopropyltoluene	5.60	J		13.3	ug/Kg
000622-97-9	Benzene, 1-ethenyl-4-methyl-	160	J		13.5	ug/Kg
104-51-8	n-Butylbenzene	24.2	J		13.6	ug/Kg
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	110	J		13.8	ug/Kg
000527-84-4	o-Cymene	140	J		13.8	ug/Kg
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	360	J		13.9	ug/Kg
	unknown14.005	130	J		14.0	ug/Kg
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	270	J		14.2	ug/Kg
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl	320	J		14.3	ug/Kg
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	160	J		14.5	ug/Kg
	unknown14.535	140	J		14.5	ug/Kg
000934-10-1	3-Phenylbut-1-ene	350	J		14.6	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\VY102824\
 Data File : VY020033.D
 Acq On : 28 Oct 2024 11:56
 Operator : SY/MD
 Sample : P4578-03
 Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-305-TOP

Quant Time: Oct 29 03:13:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

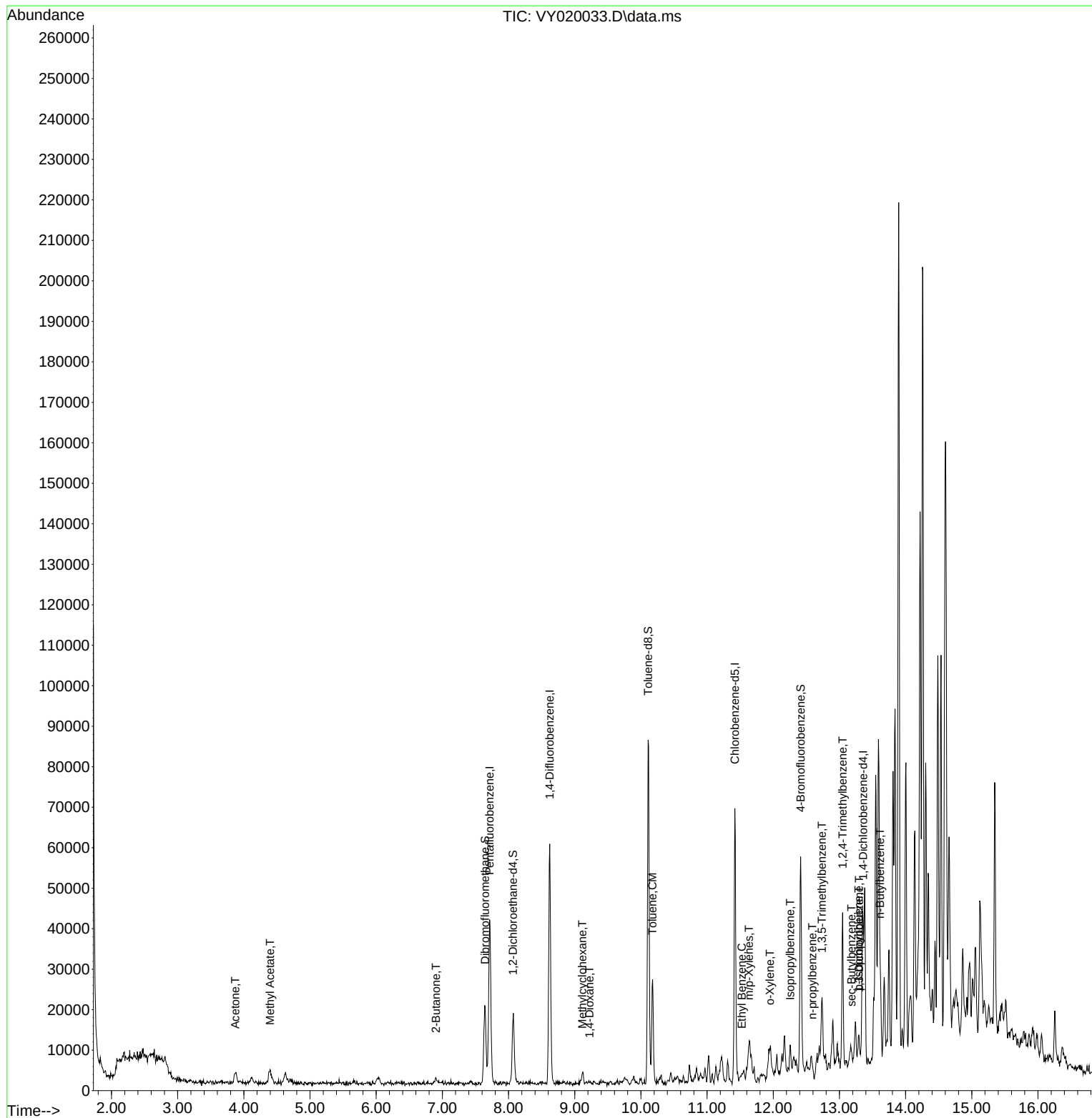
Internal Standards						
1) Pentafluorobenzene	7.713	168	27473	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.622	114	45281	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	32489	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.359	152	8668	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	13554	40.068	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	80.140%
35) Dibromofluoromethane	7.646	113	13741	45.987	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	91.980%
50) Toluene-d8	10.109	98	51954	47.083	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	94.160%
62) 4-Bromofluorobenzene	12.414	95	11497	28.836	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	57.680%
Target Compounds						
					Qvalue	
16) Acetone	3.873	43	4573	51.932	ug/l	# 85
18) Methyl Acetate	4.397	43	6622	34.909	ug/l	# 82
25) 2-Butanone	6.902	43	1407	11.937	ug/l	96
39) Methylcyclohexane	9.115	83	802	1.479	ug/l	# 58
49) 1,4-Dioxane	9.225	88	253	126.879	ug/l	# 85
52) Toluene	10.176	92	10672	13.123	ug/l	90
67) Ethyl Benzene	11.524	91	1351	1.001	ug/l	92
68) m/p-Xylenes	11.633	106	1668	3.346	ug/l	83
69) o-Xylene	11.950	106	1659	3.463	ug/l	92
73) Isopropylbenzene	12.255	105	3314	4.545	ug/l	92
78) n-propylbenzene	12.590	91	1513	1.717	ug/l	93
80) 1,3,5-Trimethylbenzene	12.737	105	3600	6.114	ug/l	83
84) 1,2,4-Trimethylbenzene	13.048	105	17995	30.825	ug/l	95
85) sec-Butylbenzene	13.182	105	2214	2.809	ug/l	93
86) p-Isopropyltoluene	13.292	119	2324	3.631	ug/l	88
87) 1,3-Dichlorobenzene	13.298	146	424	1.357	ug/l	# 5
89) n-Butylbenzene	13.615	91	9756	15.612	ug/l	# 79

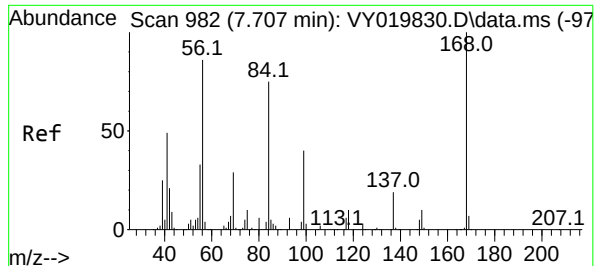
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Time: Oct 29 03:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

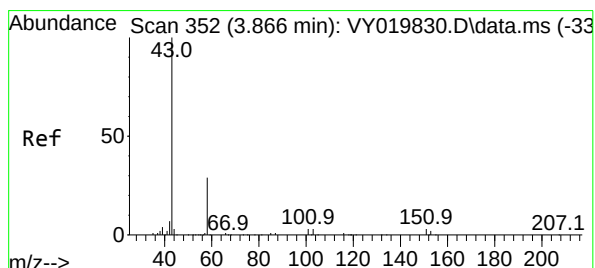
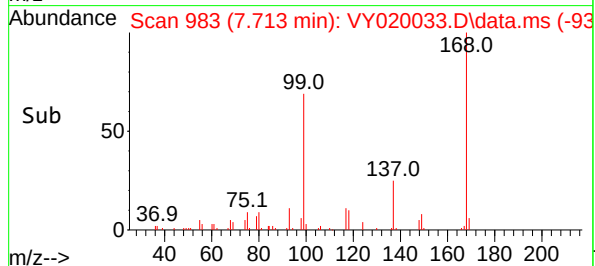
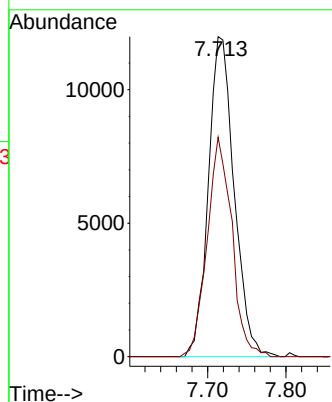
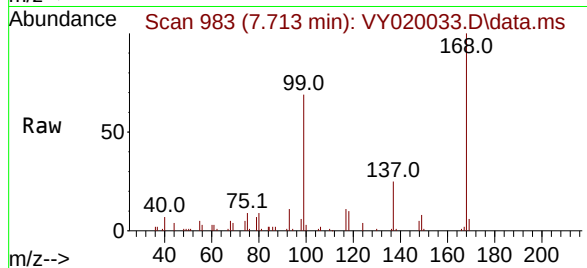




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

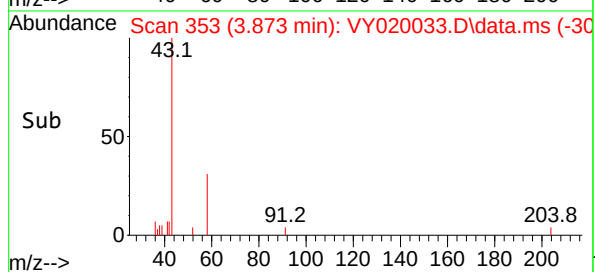
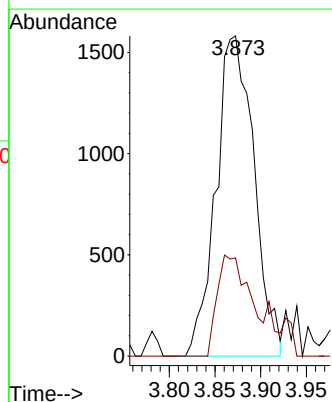
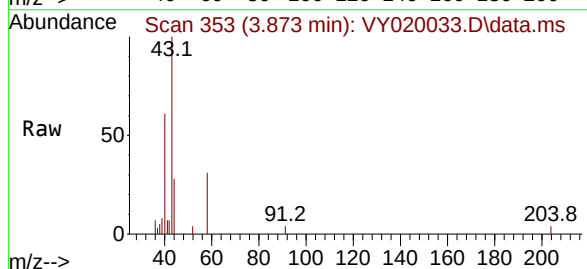
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

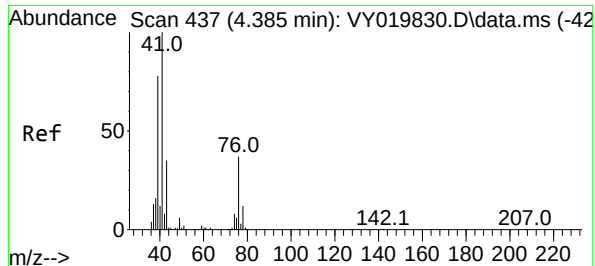
Tgt Ion:168 Resp: 27473
Ion Ratio Lower Upper
168 100
99 68.6 39.1 58.7#



#16
Acetone
Concen: 51.932 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion: 43 Resp: 4573
Ion Ratio Lower Upper
43 100
58 30.7 31.7 47.5#





#18

Methyl Acetate

Concen: 34.909 ug/l

RT: 4.397 min Scan# 41

Delta R.T. 0.013 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA_Y

ClientSampleId :

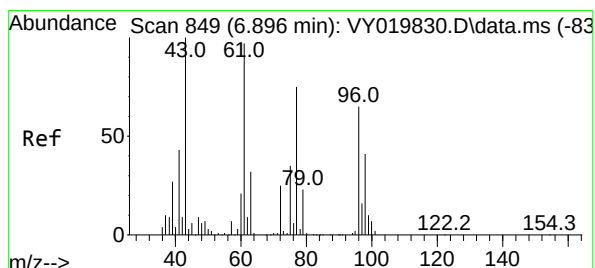
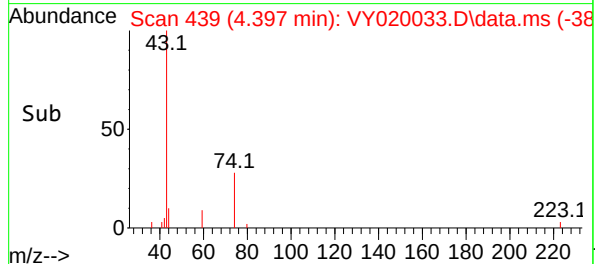
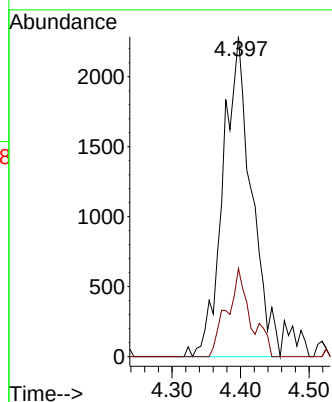
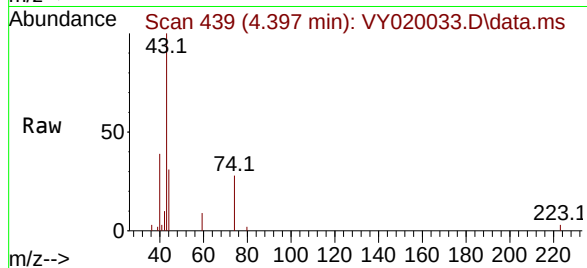
WB-305-TOP

Tgt Ion: 43 Resp: 6622

Ion Ratio Lower Upper

43 100

74 19.5 23.3 34.9#



#25

2-Butanone

Concen: 11.937 ug/l

RT: 6.902 min Scan# 850

Delta R.T. 0.012 min

Lab File: VY020033.D

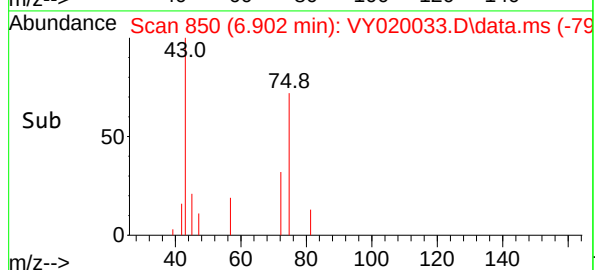
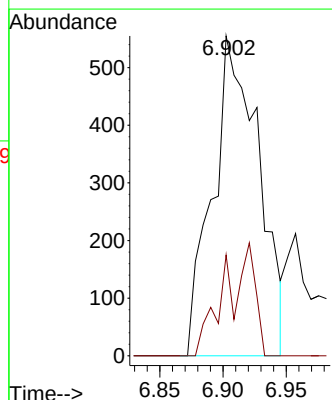
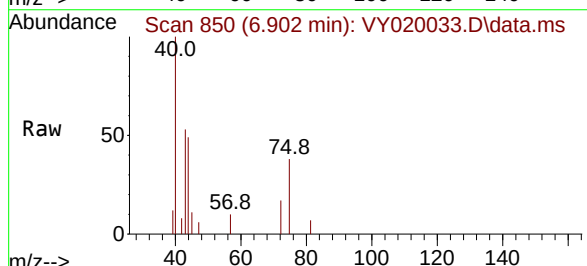
Acq: 28 Oct 2024 11:56

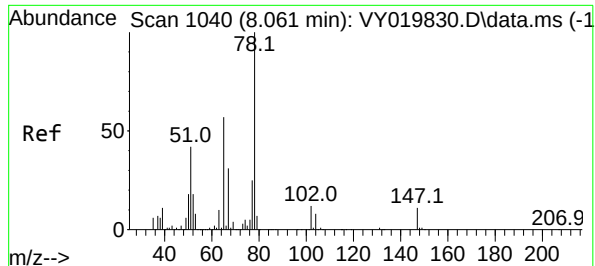
Tgt Ion: 43 Resp: 1407

Ion Ratio Lower Upper

43 100

72 31.5 27.3 40.9





#33

1,2-Dichloroethane-d4

Concen: 40.068 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA_Y

ClientSampleId :

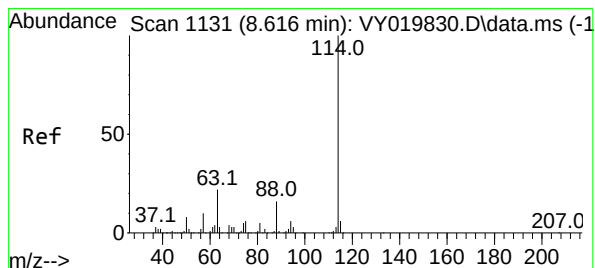
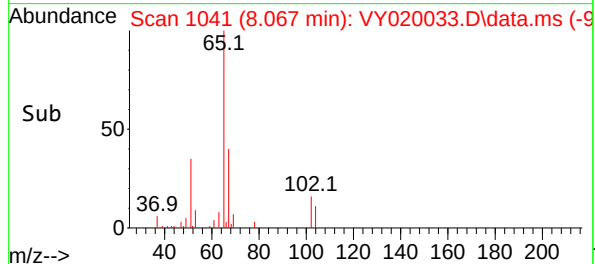
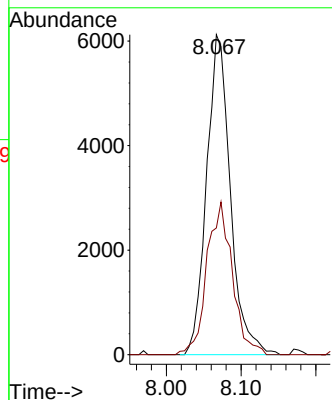
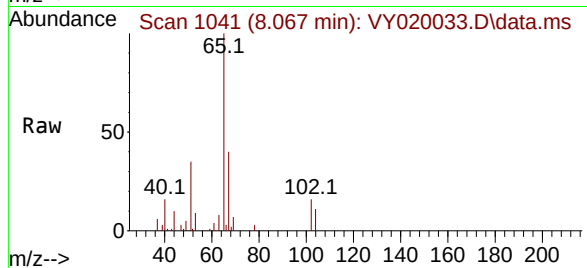
WB-305-TOP

Tgt Ion: 65 Resp: 13554

Ion Ratio Lower Upper

65 100

67 51.1 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

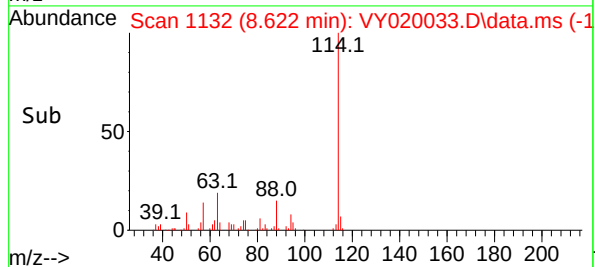
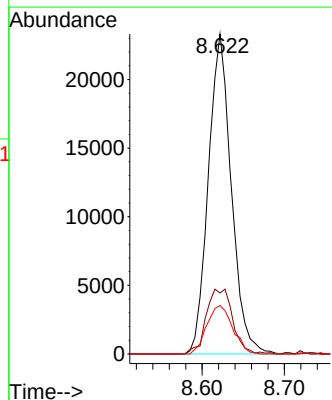
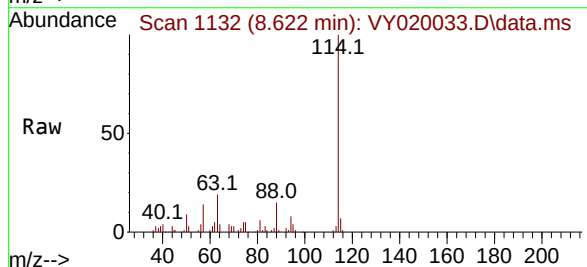
Tgt Ion: 114 Resp: 45281

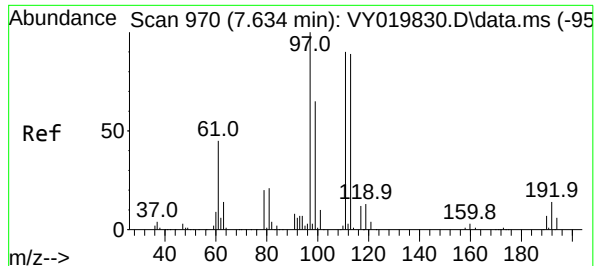
Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.0

88 15.1 0.0 27.2





#35

Dibromofluoromethane

Concen: 45.987 ug/l

RT: 7.646 min Scan# 91

Delta R.T. 0.012 min

Lab File: VY020033.D

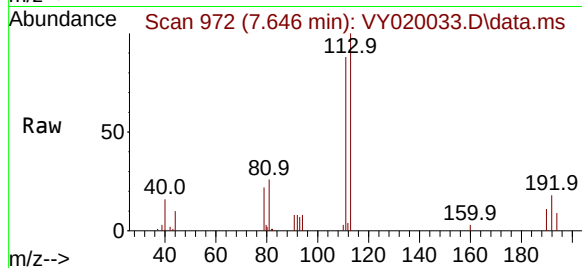
Acq: 28 Oct 2024 11:56

Instrument :

MSVOA_Y

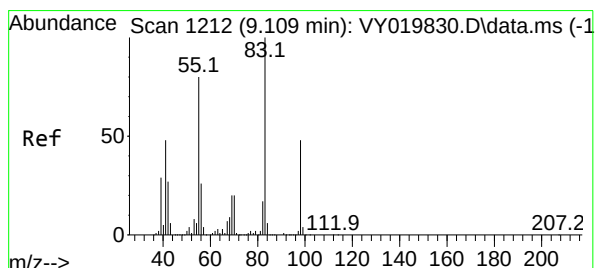
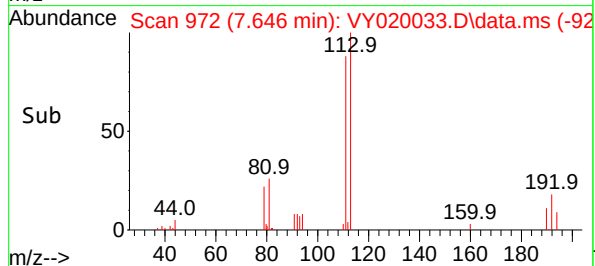
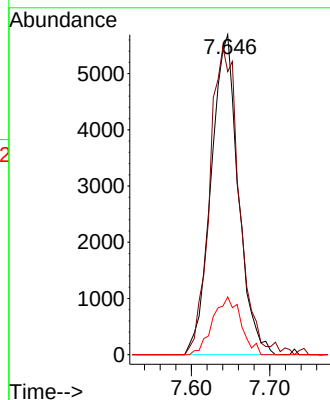
ClientSampleId :

WB-305-TOP



Tgt Ion:113 Resp: 13741

Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.2	123.4
192	18.6	15.9	23.9



#39

Methylcyclohexane

Concen: 1.479 ug/l

RT: 9.115 min Scan# 1213

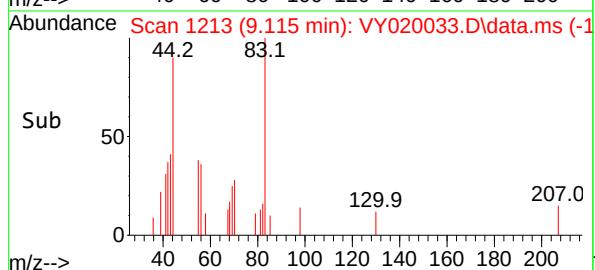
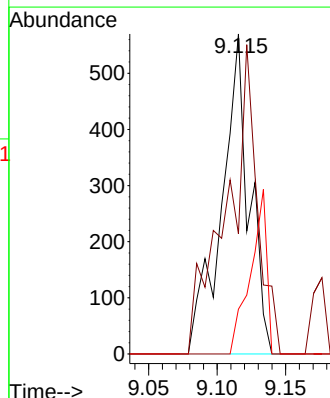
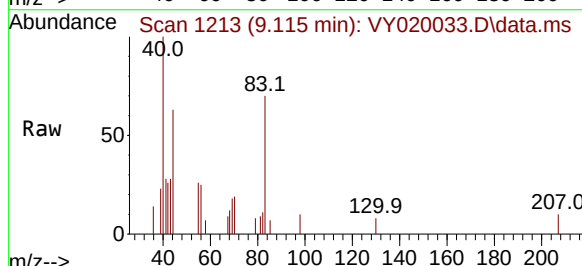
Delta R.T. 0.006 min

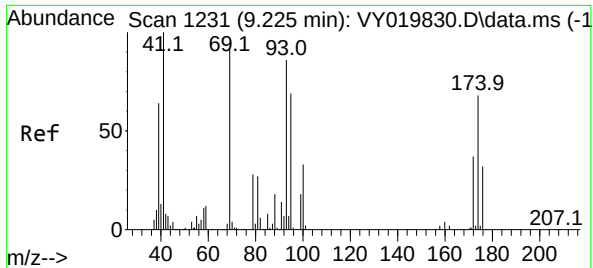
Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Tgt Ion: 83 Resp: 802

Ion	Ratio	Lower	Upper
83	100		
55	37.5	51.5	77.3#
98	14.0	40.5	60.7#





#49

1,4-Dioxane

Concen: 126.879 ug/l

RT: 9.225 min Scan# 1231

Delta R.T. -0.006 min

Lab File: VY020033.D

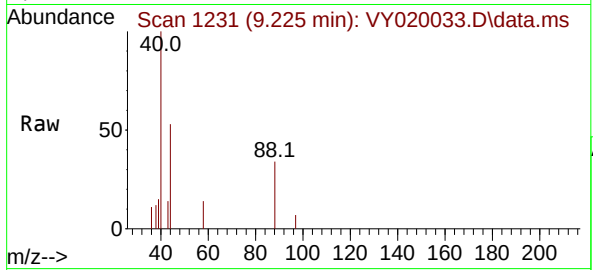
Acq: 28 Oct 2024 11:56

Instrument :

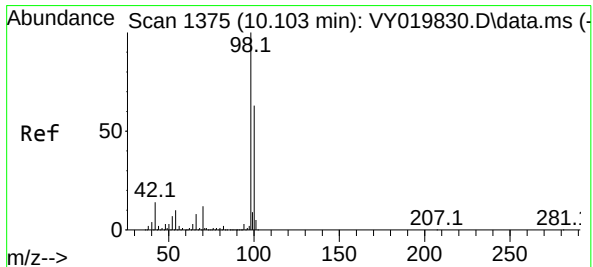
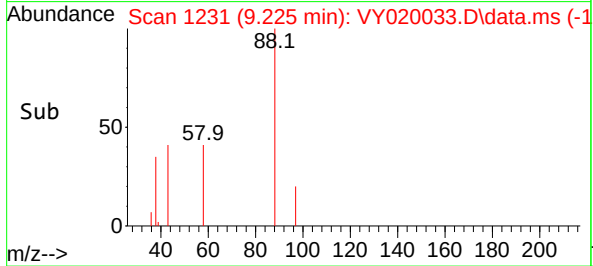
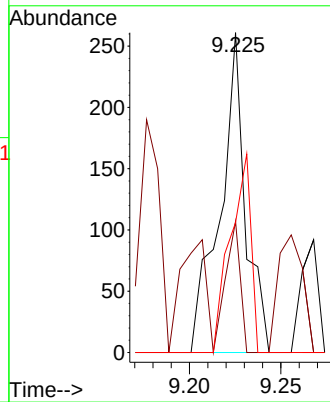
MSVOA_Y

ClientSampleId :

WB-305-TOP



Tgt Ion:	88	Resp:	253
Ion	Ratio	Lower	Upper
88	100		
43	23.7	0.0	0.0#
58	50.2	49.3	73.9



#50

Toluene-d8

Concen: 47.083 ug/l

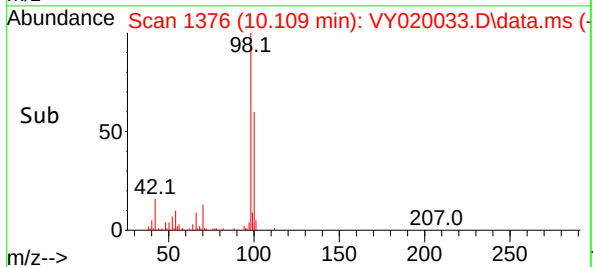
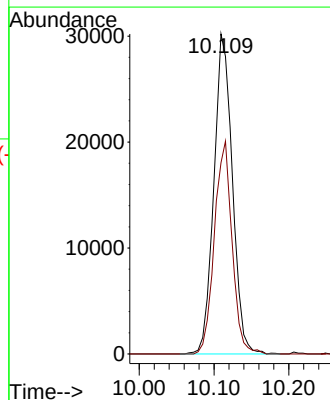
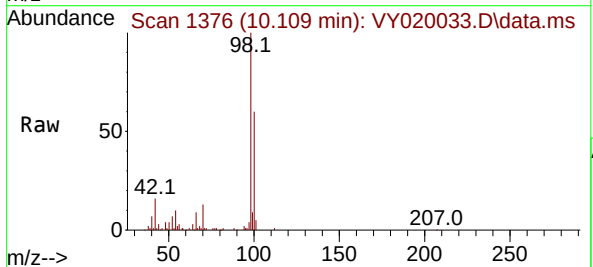
RT: 10.109 min Scan# 1376

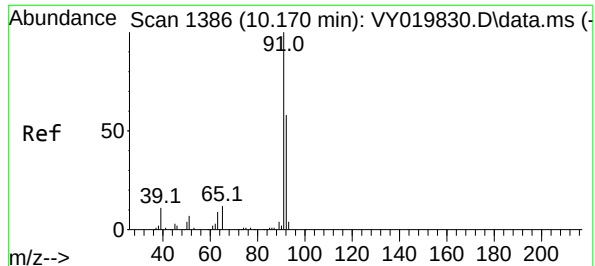
Delta R.T. 0.000 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Tgt Ion:	98	Resp:	51954
Ion	Ratio	Lower	Upper
98	100		
100	63.6	52.0	78.0

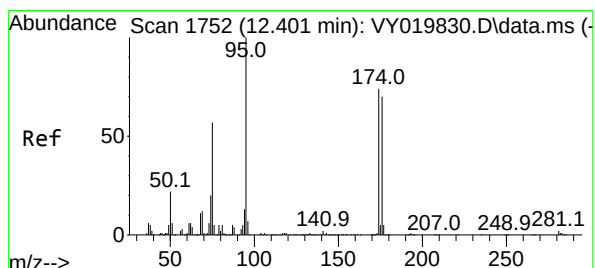
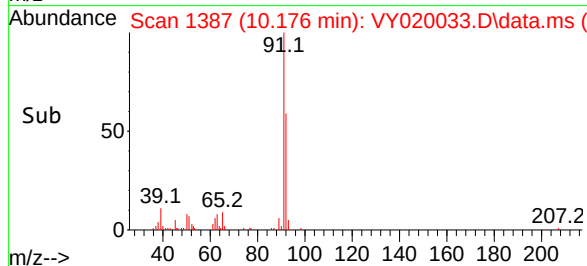
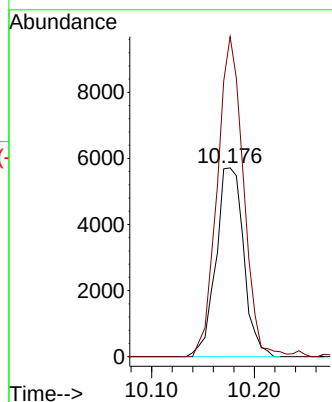
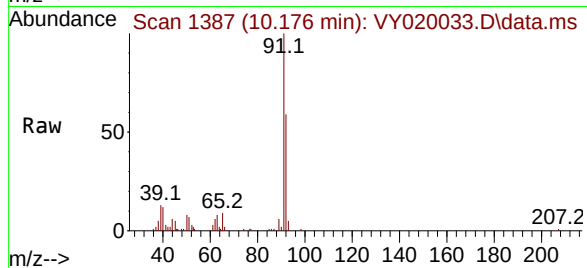




#52
Toluene
Concen: 13.123 ug/l
RT: 10.176 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

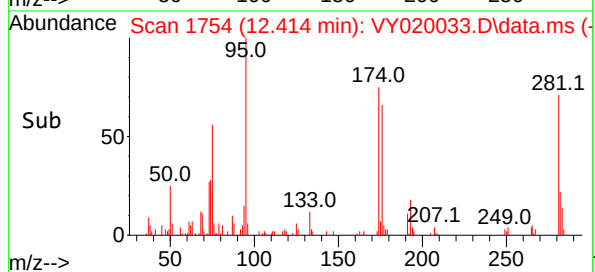
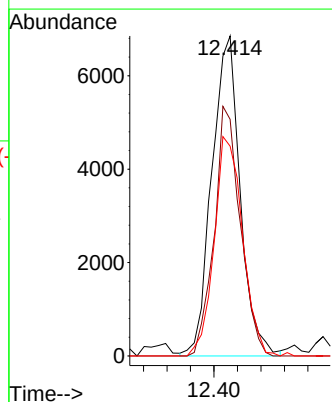
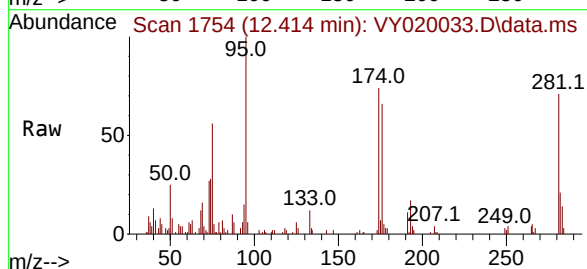
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

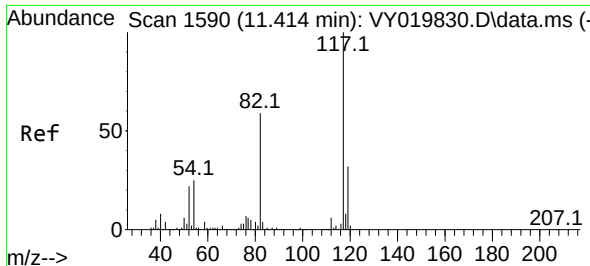
Tgt Ion: 92 Resp: 10672
Ion Ratio Lower Upper
92 100
91 160.3 139.0 208.6



#62
4-Bromofluorobenzene
Concen: 28.836 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion: 95 Resp: 11497
Ion Ratio Lower Upper
95 100
174 71.8 0.0 175.6
176 68.6 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA_Y

ClientSampleId :

WB-305-TOP

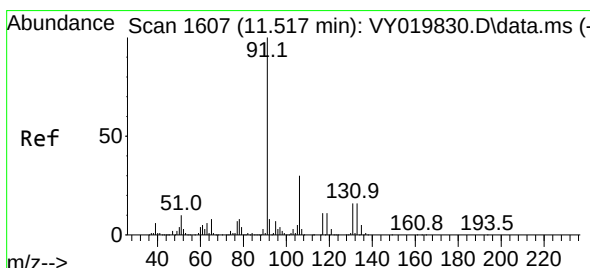
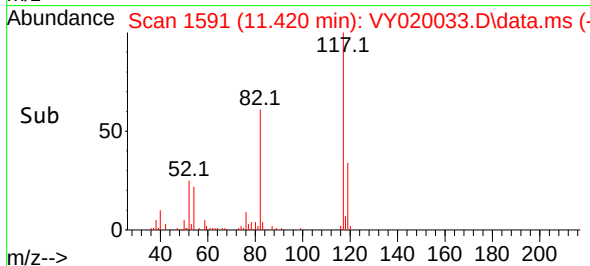
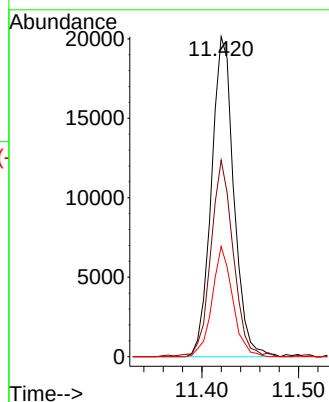
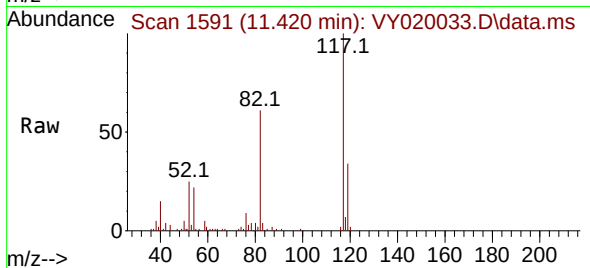
Tgt Ion:117 Resp: 32489

Ion Ratio Lower Upper

117 100

82 61.4 42.4 63.6

119 34.5 25.9 38.9



#67

Ethyl Benzene

Concen: 1.001 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.000 min

Lab File: VY020033.D

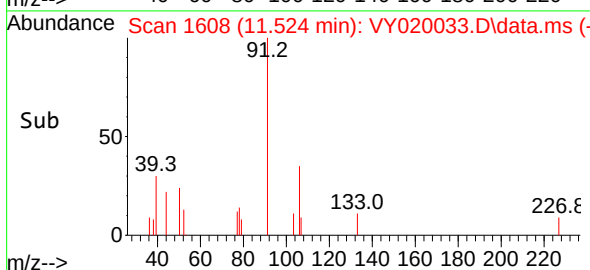
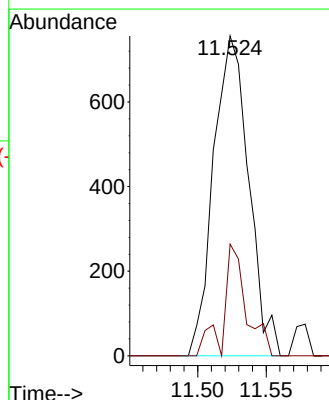
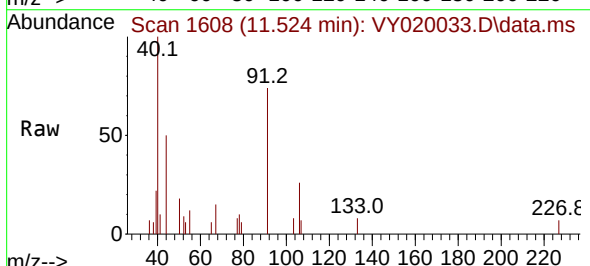
Acq: 28 Oct 2024 11:56

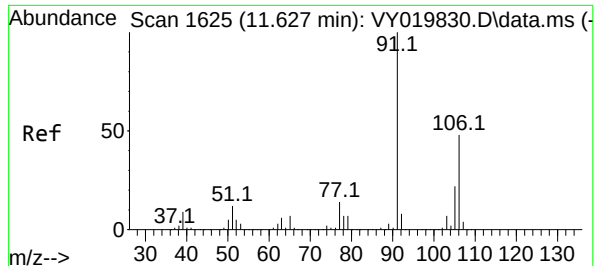
Tgt Ion: 91 Resp: 1351

Ion Ratio Lower Upper

91 100

106 34.9 24.5 36.7

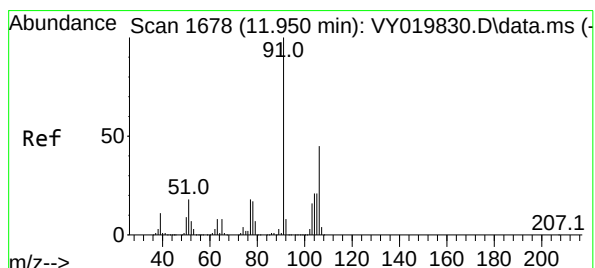
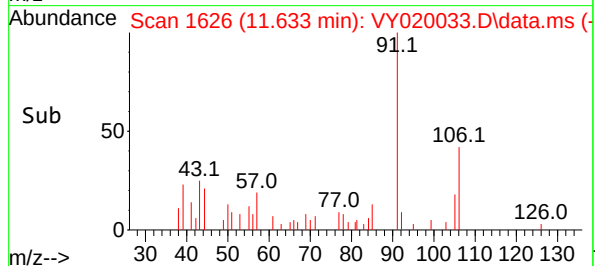
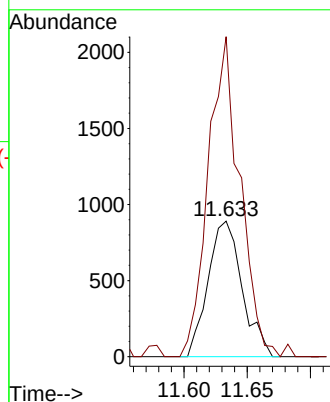
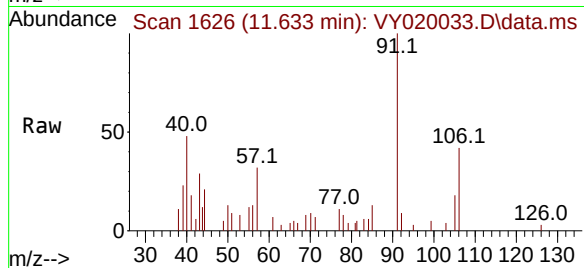




#68
m/p-Xylenes
Concen: 3.346 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

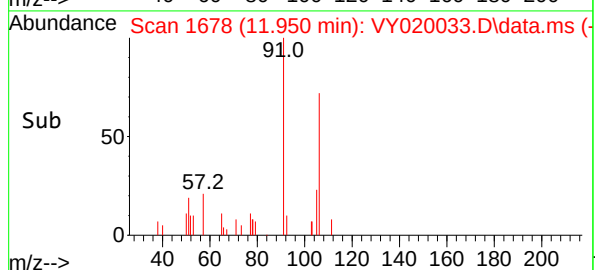
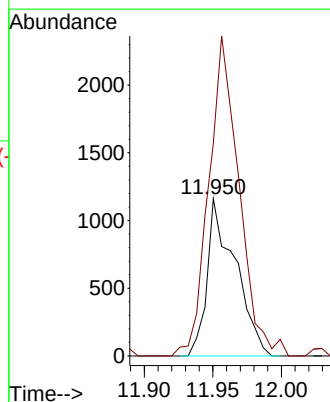
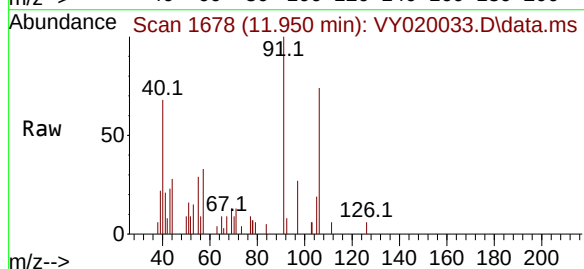
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

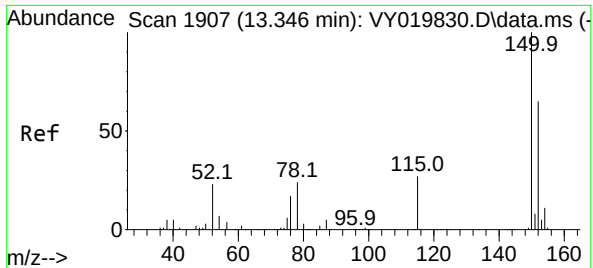
Tgt Ion:106 Resp: 1668
Ion Ratio Lower Upper
106 100
91 219.9 156.0 234.0



#69
o-Xylene
Concen: 3.463 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion:106 Resp: 1659
Ion Ratio Lower Upper
106 100
91 218.9 103.6 310.8

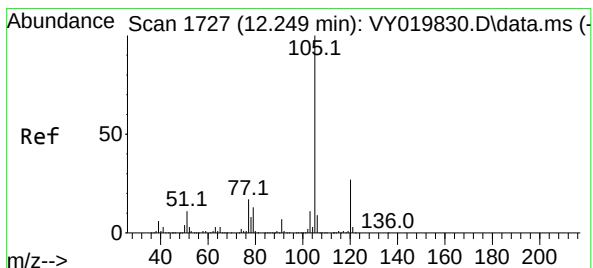
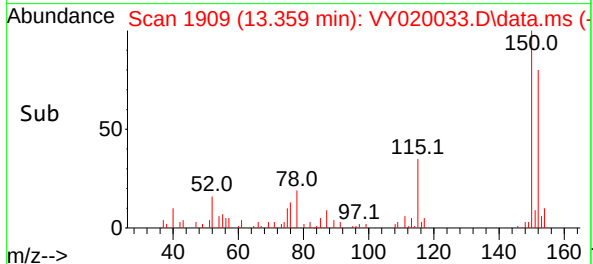
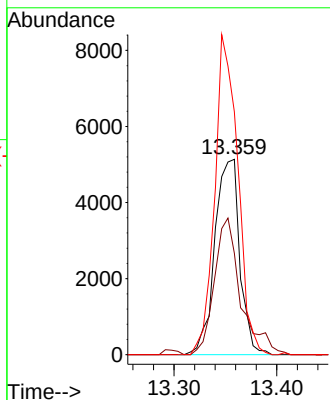
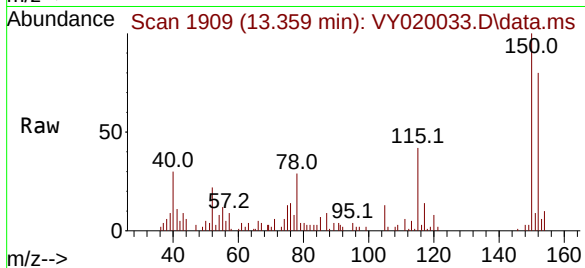




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.012 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

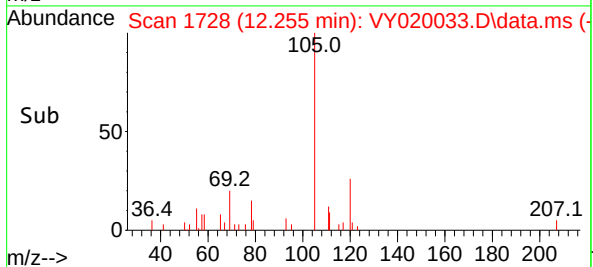
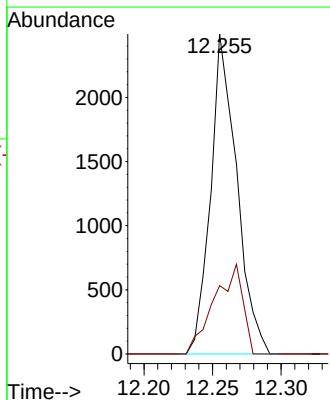
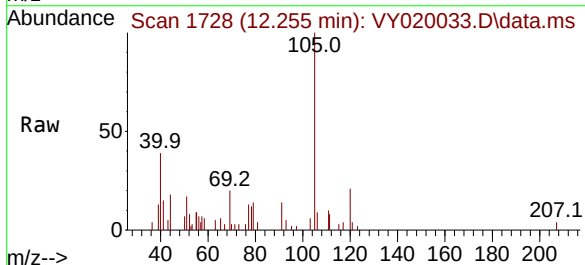
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

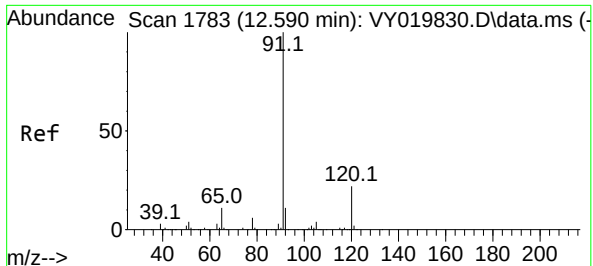
Tgt Ion:152 Resp: 8668
Ion Ratio Lower Upper
152 100
115 74.1 28.2 84.7
150 150.9 0.0 345.6



#73
Isopropylbenzene
Concen: 4.545 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY020033.D
Acq: 28 Oct 2024 11:56

Tgt Ion:105 Resp: 3314
Ion Ratio Lower Upper
105 100
120 30.7 13.4 40.1





#78

n-propylbenzene

Concen: 1.717 ug/l

RT: 12.590 min Scan# 1783

Delta R.T. -0.006 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA_Y

ClientSampleId :

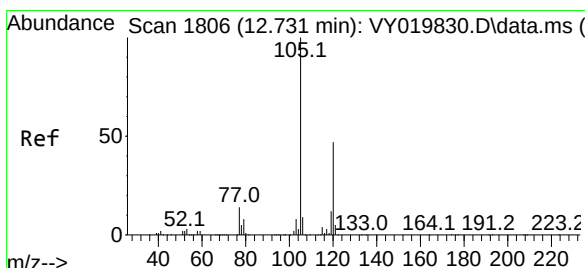
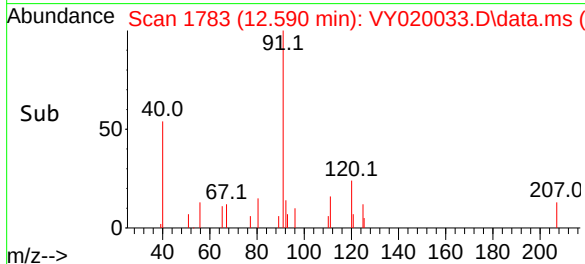
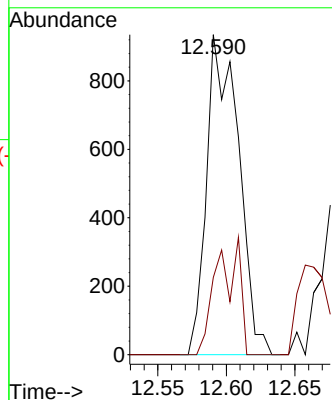
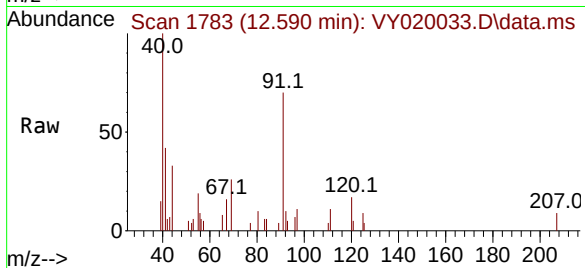
WB-305-TOP

Tgt Ion: 91 Resp: 1513

Ion Ratio Lower Upper

91 100

120 26.4 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 6.114 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY020033.D

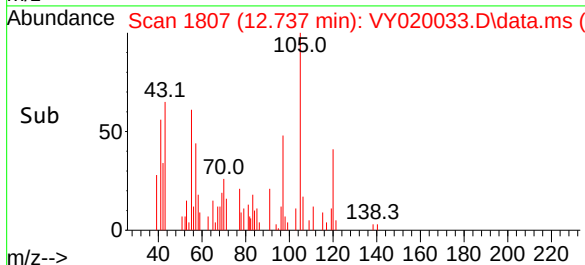
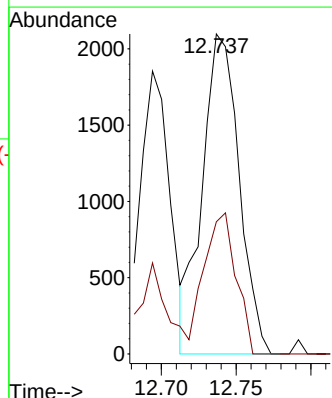
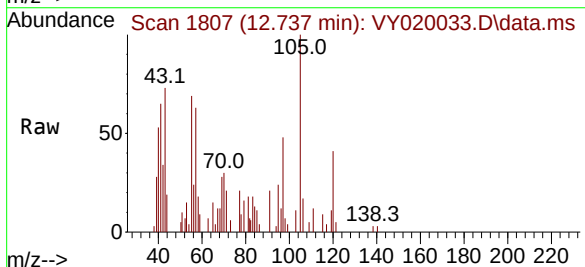
Acq: 28 Oct 2024 11:56

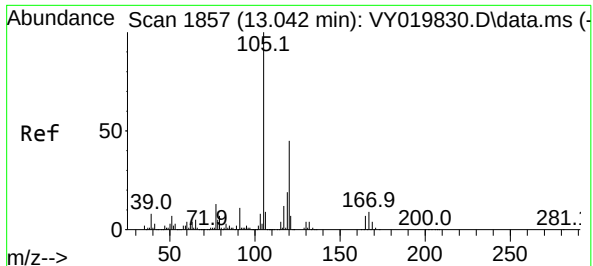
Tgt Ion: 105 Resp: 3600

Ion Ratio Lower Upper

105 100

120 38.1 25.1 75.2





#84

1,2,4-Trimethylbenzene

Concen: 30.825 ug/l

RT: 13.048 min Scan# 1857

Delta R.T. 0.000 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA_Y

ClientSampleId :

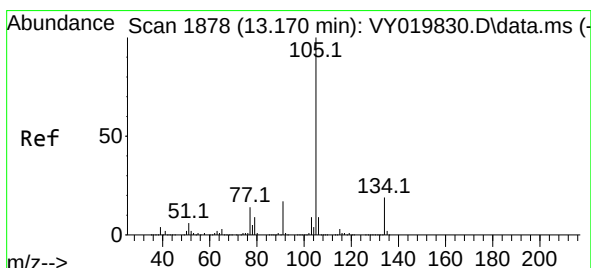
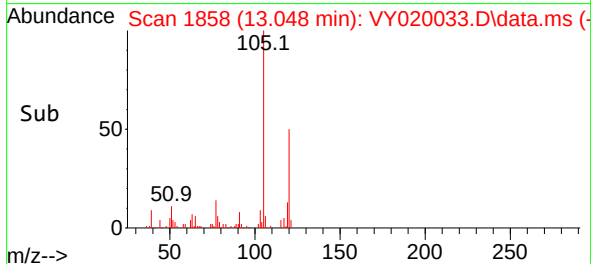
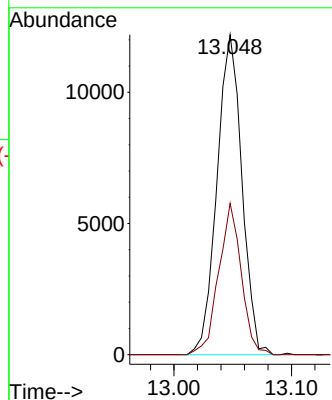
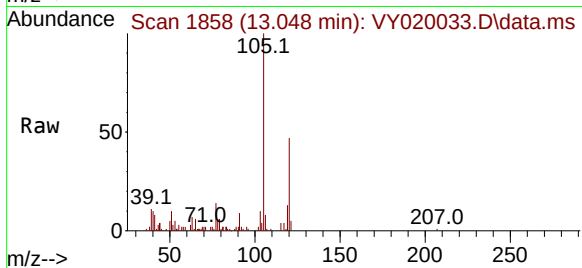
WB-305-TOP

Tgt Ion:105 Resp: 17995

Ion Ratio Lower Upper

105 100

120 42.9 23.2 69.6



#85

sec-Butylbenzene

Concen: 2.809 ug/l

RT: 13.182 min Scan# 1880

Delta R.T. 0.006 min

Lab File: VY020033.D

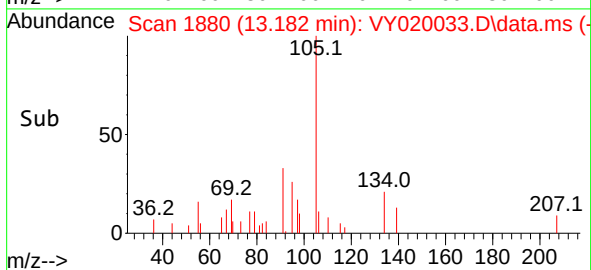
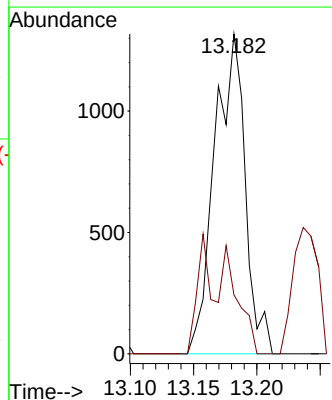
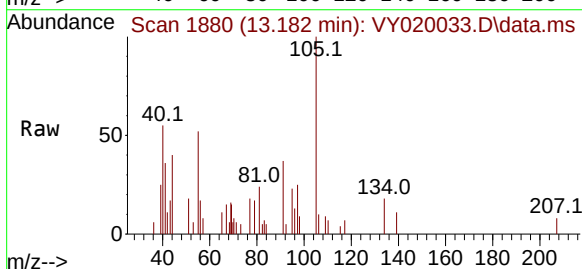
Acq: 28 Oct 2024 11:56

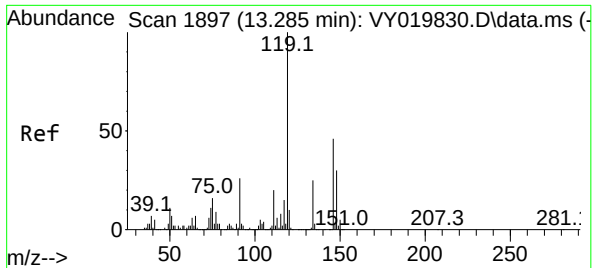
Tgt Ion:105 Resp: 2214

Ion Ratio Lower Upper

105 100

134 17.1 10.1 30.1





#86

p-Isopropyltoluene

Concen: 3.631 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA_Y

ClientSampleId :

WB-305-TOP

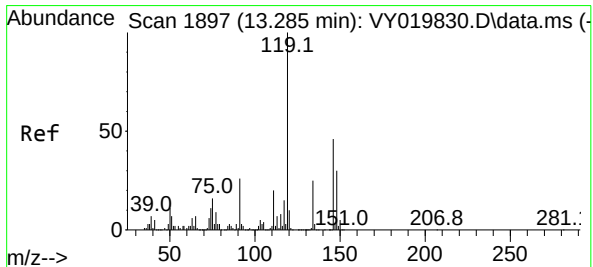
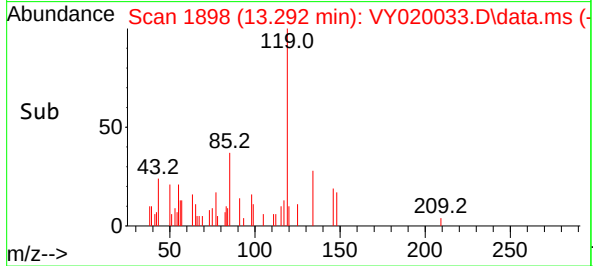
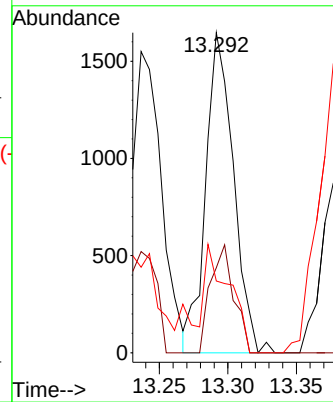
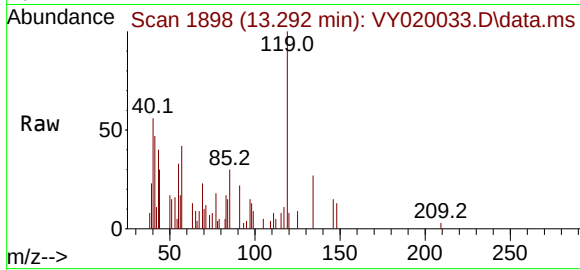
Tgt Ion:119 Resp: 2324

Ion Ratio Lower Upper

119 100

134 28.4 13.1 39.3

91 31.4 10.7 32.1



#87

1,3-Dichlorobenzene

Concen: 1.357 ug/l

RT: 13.298 min Scan# 1899

Delta R.T. 0.006 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

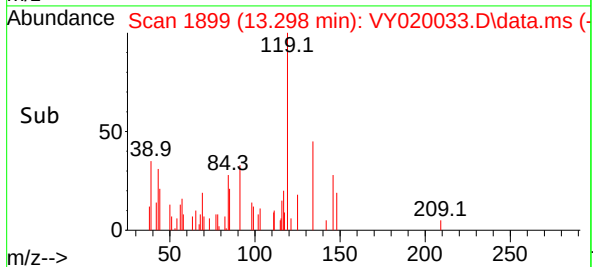
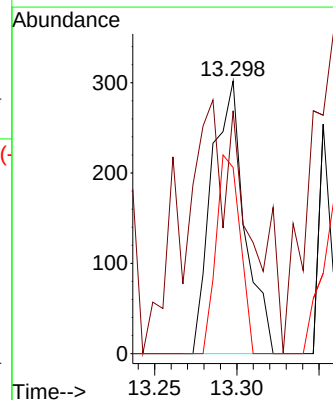
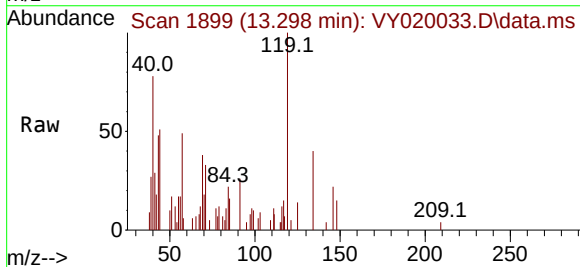
Tgt Ion:146 Resp: 424

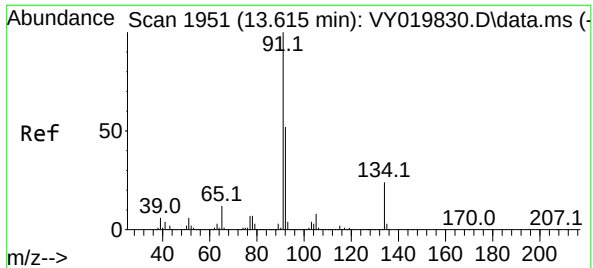
Ion Ratio Lower Upper

146 100

111 176.7 19.0 57.0#

148 52.8 31.7 95.1





#89

n-Butylbenzene

Concen: 15.612 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. -0.006 min

Lab File: VY020033.D

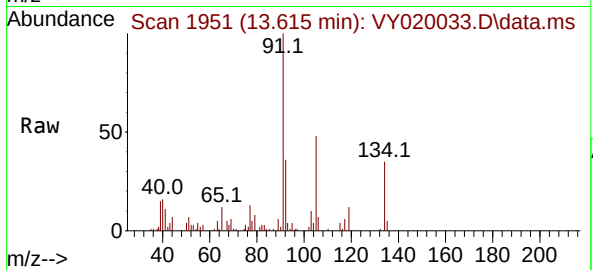
Acq: 28 Oct 2024 11:56

Instrument :

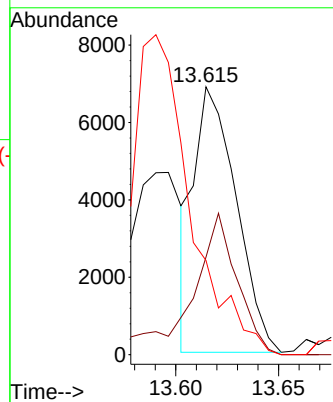
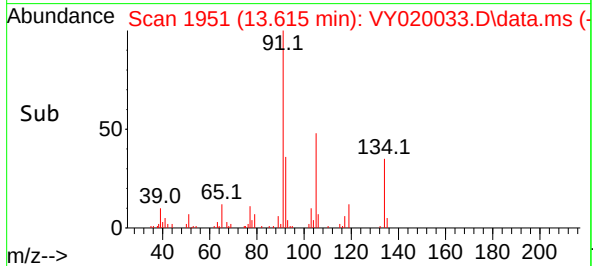
MSVOA_Y

ClientSampleId :

WB-305-TOP



Tgt Ion:	91	Resp:	9756
Ion	Ratio	Lower	Upper
91	100		
92	57.3	26.6	79.7
134	0.0	12.9	38.7#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020033.D
 Acq On : 28 Oct 2024 11:56
 Operator : SY/MD
 Sample : P4578-03
 Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-305-TOP

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\82Y100924S.M
 Title : SW846 8260

Signal : TIC: VY020033.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	58	59	63	rBV4	2426	3689	1.17%	0.090%
2	2.476	118	124	126	rBV4	2502	3344	1.06%	0.081%
3	2.586	135	142	143	rBV4	2079	4719	1.50%	0.115%
4	2.647	150	152	155	rVB4	3399	3152	1.00%	0.077%
5	4.110	388	392	400	rVB4	1403	3393	1.08%	0.083%
6	4.397	437	439	449	rVB3	3557	7744	2.46%	0.189%
7	4.628	471	477	481	rBV6	2221	4513	1.43%	0.110%
8	7.640	960	971	976	rBV2	19704	46816	14.88%	1.140%
9	7.713	977	983	995	rVB2	40678	96029	30.53%	2.339%
10	8.073	1032	1042	1051	rBV2	17535	40460	12.86%	0.986%
11	8.622	1125	1132	1143	rBV2	59337	119919	38.12%	2.921%
12	9.122	1210	1214	1218	rVB4	2928	5152	1.64%	0.125%
13	10.109	1369	1376	1383	rBV	84969	154882	49.23%	3.773%
14	10.176	1383	1387	1396	rVB	25834	45967	14.61%	1.120%
15	10.451	1428	1432	1437	rVB6	2382	4241	1.35%	0.103%
16	10.554	1443	1449	1453	rVB8	1768	4169	1.33%	0.102%
17	10.731	1474	1478	1484	rBV5	4217	6370	2.02%	0.155%
18	10.841	1493	1496	1500	rVB5	2875	4189	1.33%	0.102%
19	10.969	1513	1517	1521	rVB5	3371	5360	1.70%	0.131%
20	11.024	1521	1526	1531	rVB4	6646	10948	3.48%	0.267%
21	11.079	1531	1535	1539	rVB4	2381	3297	1.05%	0.080%
22	11.133	1539	1544	1549	rBV5	4210	8140	2.59%	0.198%
23	11.219	1551	1558	1564	rVB8	5719	14856	4.72%	0.362%
24	11.310	1567	1573	1577	rBV3	5237	8371	2.66%	0.204%
25	11.420	1584	1591	1601	rBV	68108	115897	36.84%	2.823%
26	11.639	1617	1627	1630	rBV7	9496	25693	8.17%	0.626%
27	11.713	1636	1639	1645	rVB6	3966	4936	1.57%	0.120%
28	11.932	1669	1675	1676	rBV5	7255	9984	3.17%	0.243%
29	12.054	1691	1695	1703	rVB7	4830	6675	2.12%	0.163%
30	12.133	1703	1708	1710	rBV4	4966	7585	2.41%	0.185%
31	12.170	1710	1714	1721	rVV6	9047	15750	5.01%	0.384%
32	12.255	1725	1728	1733	rVV4	6556	9846	3.13%	0.240%
33	12.310	1733	1737	1741	rVV7	3398	6941	2.21%	0.169%
34	12.347	1741	1743	1748	rVB3	2986	3756	1.19%	0.091%
35	12.414	1748	1754	1764	rBV3	53185	97177	30.89%	2.367%
36	12.505	1764	1769	1771	rBV6	2401	3188	1.01%	0.078%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020033.D
 Acq On : 28 Oct 2024 11:56
 Operator : SY/MD
 Sample : P4578-03
 Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-305-TOP

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\82Y100924S.M
 Title : SW846 8260

37	12.572	1777	1780	1788	rVB5	5643	12332	3.92%	0.300%
38	12.664	1788	1795	1796	rBV7	6356	10561	3.36%	0.257%
39	12.694	1796	1800	1802	rVV5	5030	7383	2.35%	0.180%
40	12.737	1802	1807	1813	rVB7	15378	29757	9.46%	0.725%
41	12.901	1827	1834	1838	rBV2	11905	22428	7.13%	0.546%
42	12.968	1842	1845	1848	rVV5	5688	7576	2.41%	0.185%
43	13.048	1852	1858	1864	rBV	38498	57828	18.38%	1.409%
44	13.170	1871	1878	1883	rBV	4940	10825	3.44%	0.264%
45	13.243	1885	1890	1894	rVV6	10678	19461	6.19%	0.474%
46	13.292	1894	1898	1902	rVV6	7251	13867	4.41%	0.338%
47	13.353	1902	1908	1910	rVV2	37946	67478	21.45%	1.644%
48	13.383	1910	1913	1919	rVB2	43581	62775	19.95%	1.529%
49	13.548	1931	1940	1944	rBV2	70262	136438	43.37%	3.324%
50	13.590	1944	1947	1956	rVB5	78411	149479	47.52%	3.641%
51	13.676	1956	1961	1965	rBV5	19614	32904	10.46%	0.802%
52	13.749	1969	1973	1978	rVV2	24634	37272	11.85%	0.908%
53	13.810	1978	1983	1985	rVV	68174	99767	31.71%	2.430%
54	13.840	1985	1988	1992	rVV	83117	117987	37.51%	2.874%
55	13.895	1992	1997	2003	rVB2	208244	314584	100.00%	7.663%
56	13.950	2003	2006	2009	rVB5	4409	5331	1.69%	0.130%
57	14.005	2009	2015	2020	rBV3	70244	112183	35.66%	2.733%
58	14.078	2020	2027	2031	rBV7	12585	33495	10.65%	0.816%
59	14.139	2031	2037	2041	rBV	52165	88858	28.25%	2.164%
60	14.218	2041	2050	2053	rVV	128018	232976	74.06%	5.675%
61	14.255	2053	2056	2061	rVV	187833	281603	89.52%	6.860%
62	14.304	2061	2064	2068	rVV2	64928	94943	30.18%	2.313%
63	14.340	2068	2070	2077	rVV2	37152	55549	17.66%	1.353%
64	14.401	2078	2080	2083	rVB3	8267	9275	2.95%	0.226%
65	14.444	2083	2087	2090	rBV3	20228	27058	8.60%	0.659%
66	14.486	2090	2094	2098	rVV	89523	135130	42.96%	3.292%
67	14.535	2098	2102	2106	rVB	91636	123528	39.27%	3.009%
68	14.602	2106	2113	2118	rBV3	144366	305033	96.96%	7.430%
69	14.657	2118	2122	2128	rVB4	47176	84601	26.89%	2.061%
70	14.724	2128	2133	2135	rBV6	7114	12805	4.07%	0.312%
71	14.864	2151	2156	2163	rBV3	19217	36633	11.64%	0.892%
72	14.925	2164	2166	2167	rVV2	6434	4665	1.48%	0.114%
73	14.968	2167	2173	2177	rVV6	14446	31077	9.88%	0.757%
74	15.011	2177	2180	2184	rVV5	9951	18681	5.94%	0.455%
75	15.053	2184	2187	2193	rVB5	21101	37779	12.01%	0.920%
76	15.121	2193	2198	2206	rBV3	32630	78428	24.93%	1.910%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020033.D
 Acq On : 28 Oct 2024 11:56
 Operator : SY/MD
 Sample : P4578-03
 Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-305-TOP

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\82Y100924S.M
 Title : SW846 8260

77	15.346	2231	2235	2242	rVB	62033	91934	29.22%	2.239%
78	15.425	2244	2248	2249	rBV4	4581	6016	1.91%	0.147%
79	15.791	2304	2308	2309	rBV4	2840	3654	1.16%	0.089%
80	15.864	2317	2320	2325	rVB7	3065	4818	1.53%	0.117%
81	15.919	2325	2329	2331	rBV5	4733	7894	2.51%	0.192%
82	15.980	2337	2339	2346	rVB6	5794	9587	3.05%	0.234%
83	16.053	2348	2351	2357	rVB7	6801	12892	4.10%	0.314%
84	16.254	2379	2384	2390	rBV	12702	21258	6.76%	0.518%
85	16.364	2399	2402	2405	rBV4	3727	6563	2.09%	0.160%
86	16.492	2416	2423	2427	rBV9	1180	3152	1.00%	0.077%

Sum of corrected areas: 4105249

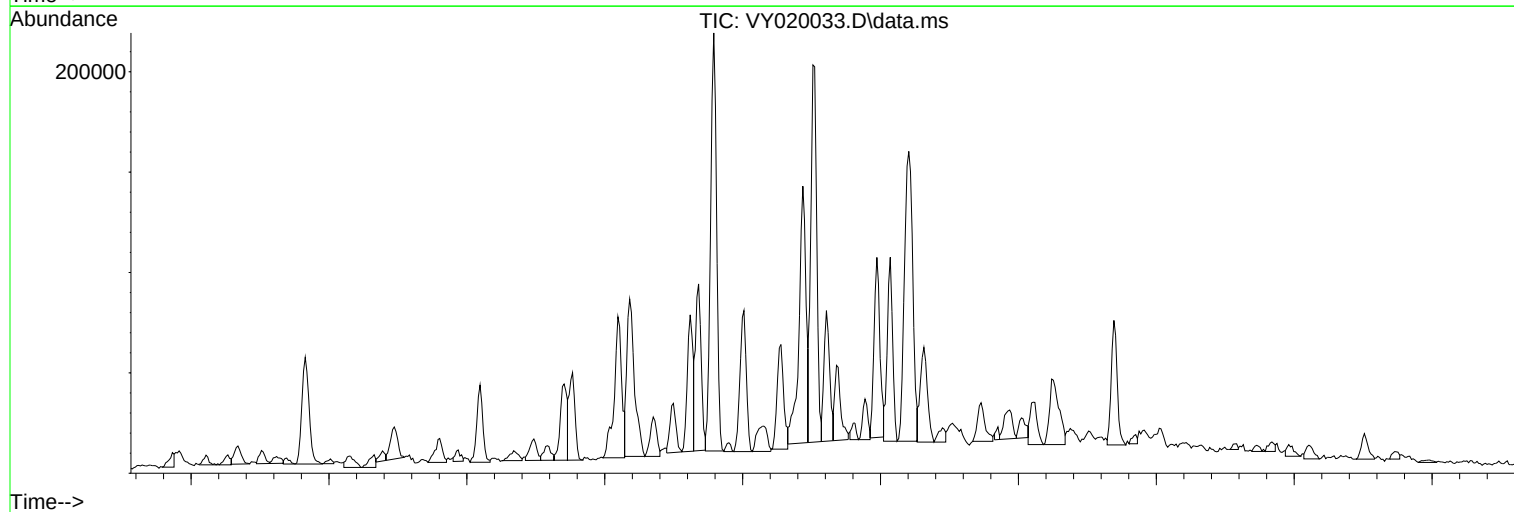
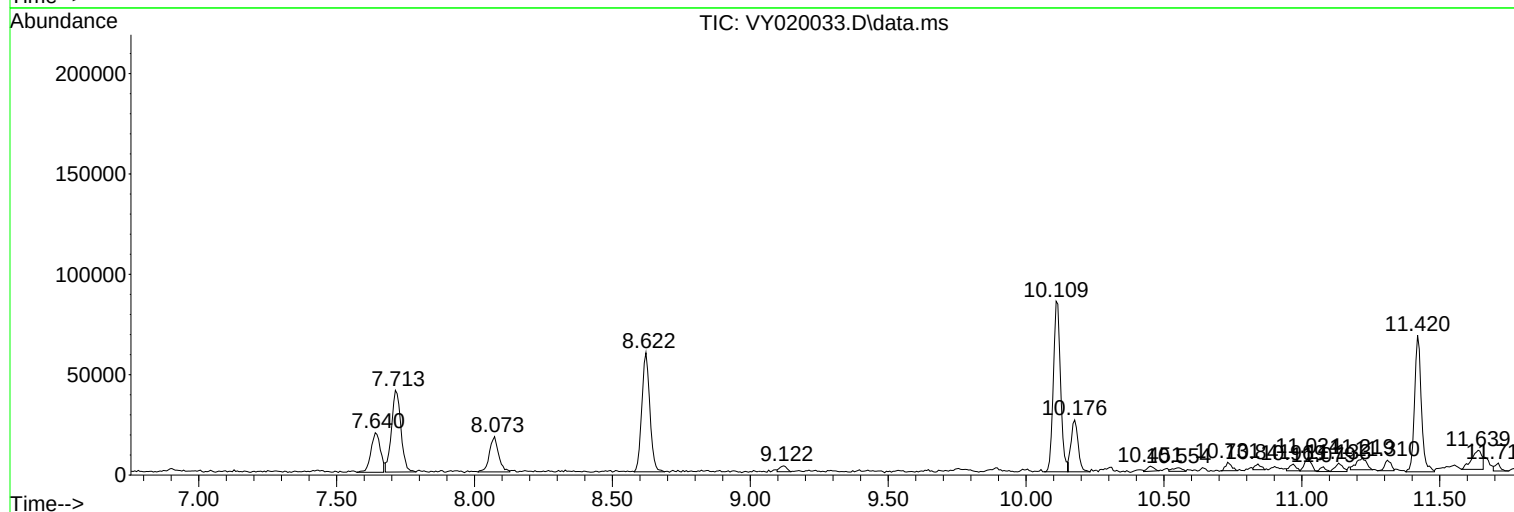
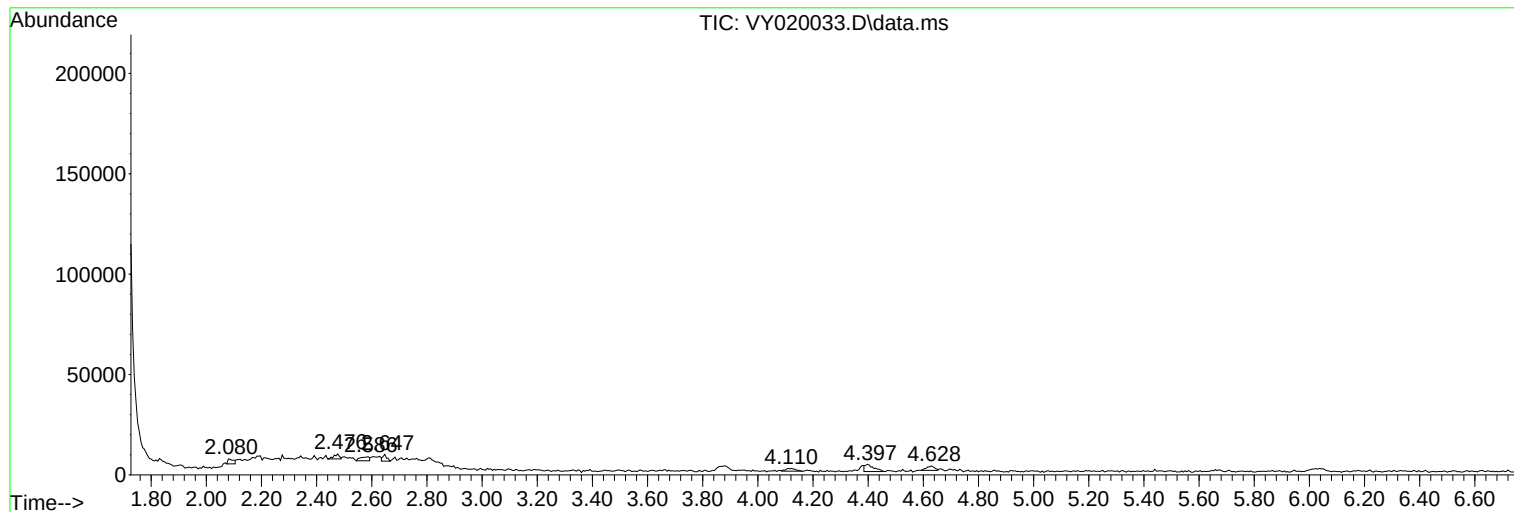
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

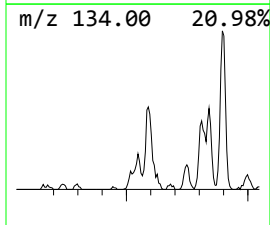
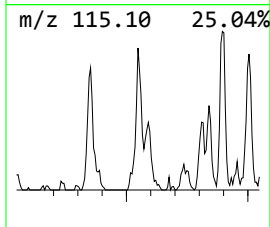
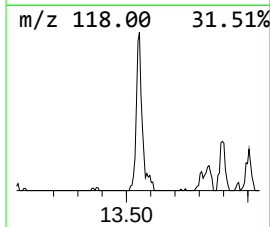
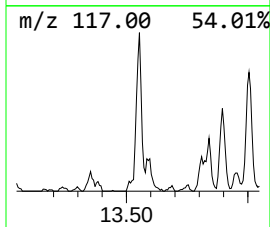
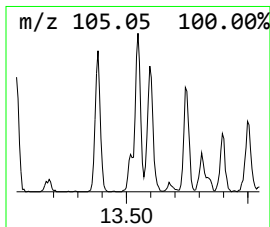
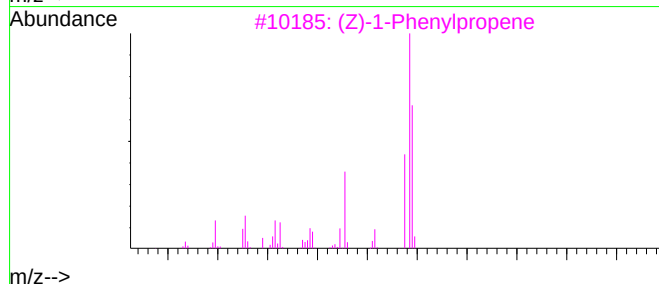
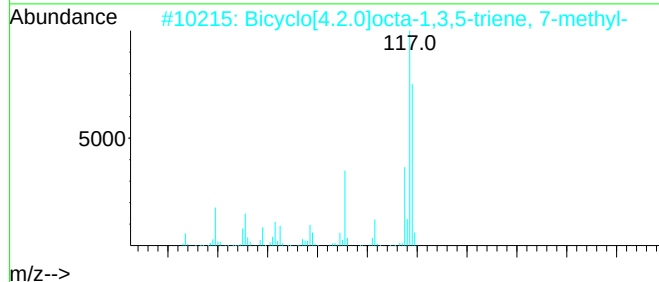
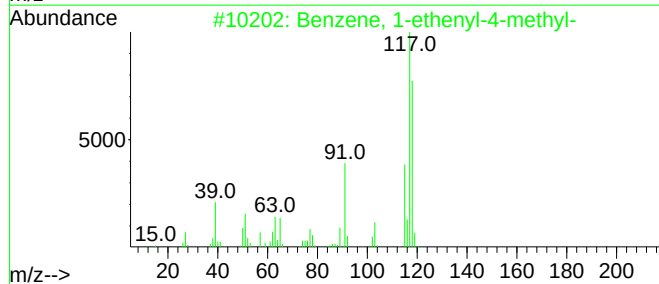
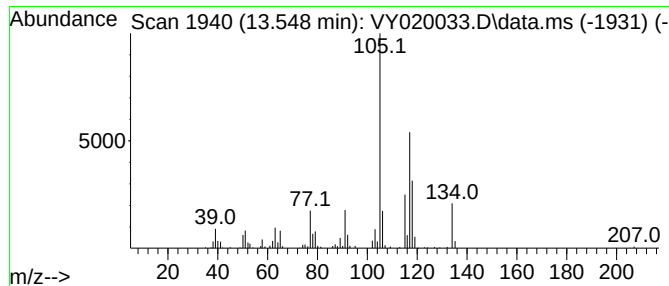
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Quant Title : SW846 8260

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

Peak Number 1 Benzene, 1-ethenyl-4-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.548	101.10 ug/l	136438	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	86
2	Bicyclo[4.2.0]octa-1,3,5-triene,...	118	C9H10	055337-80-9	50
3	(Z)-1-Phenylpropene	118	C9H10	000766-90-5	50
4	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	50
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	45



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

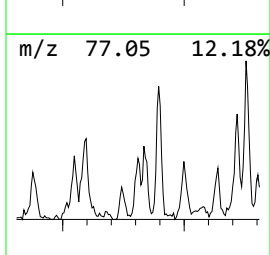
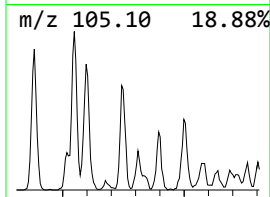
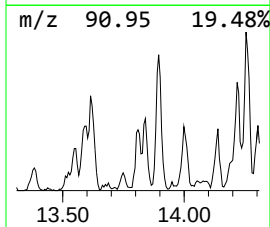
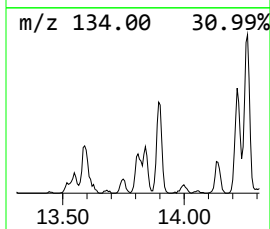
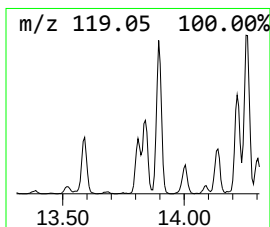
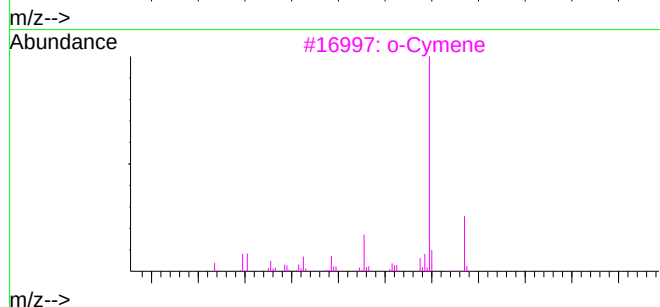
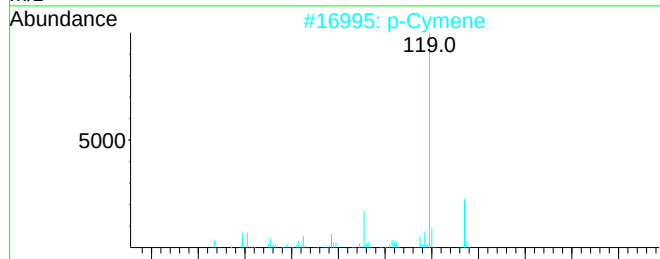
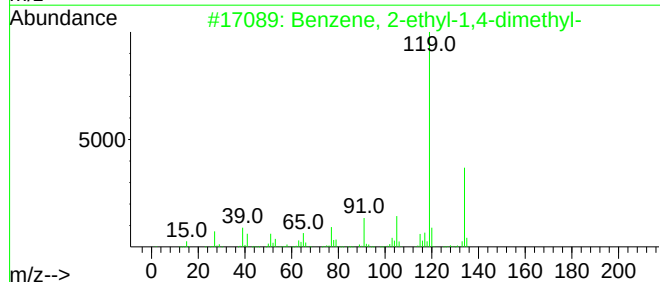
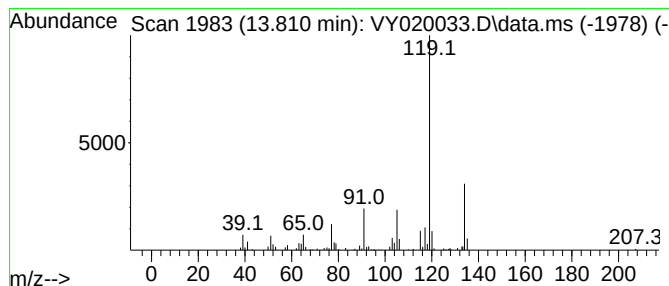
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Quant Title : SW846 8260

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

Peak Number 2 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.810	73.93 ug/l	99767	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
2	p-Cymene	134	C10H14	000099-87-6	94
3	o-Cymene	134	C10H14	000527-84-4	93
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

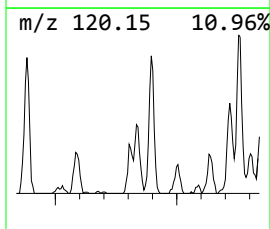
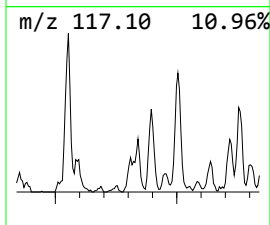
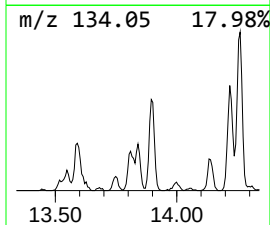
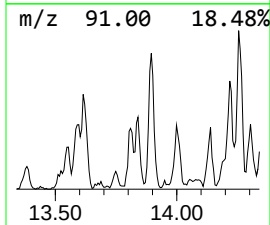
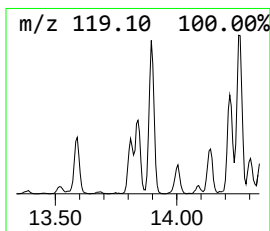
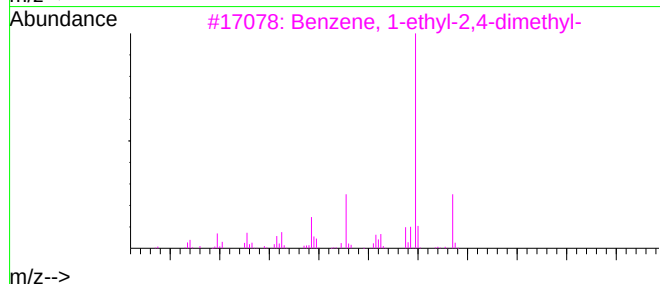
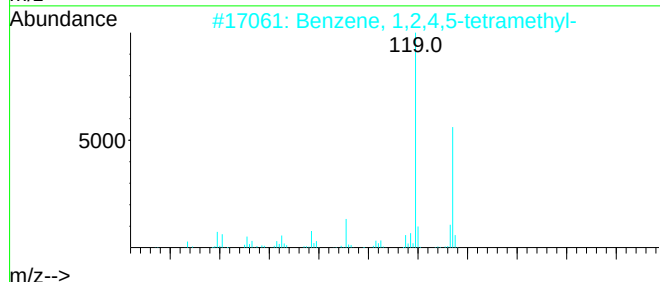
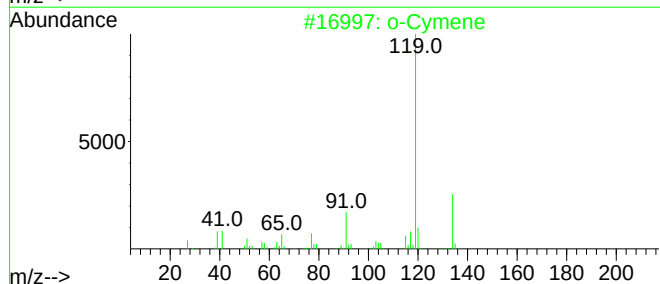
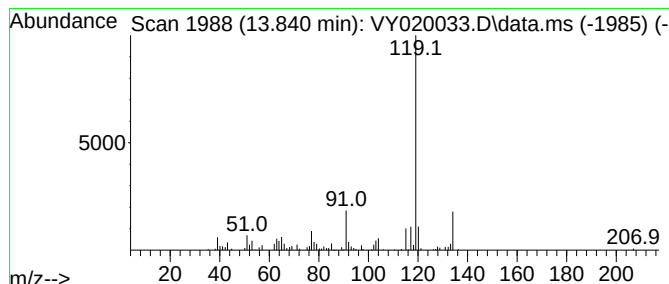
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 3 o-Cymene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.840	87.43 ug/l	117987	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	91
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

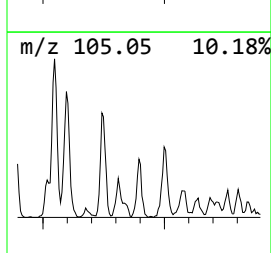
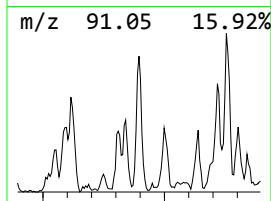
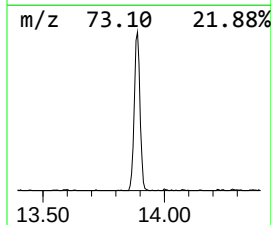
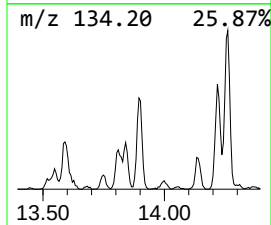
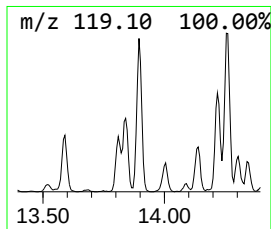
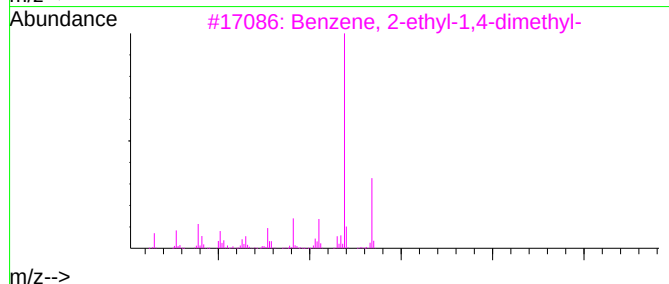
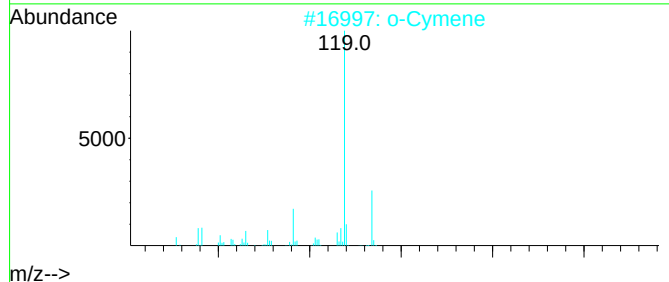
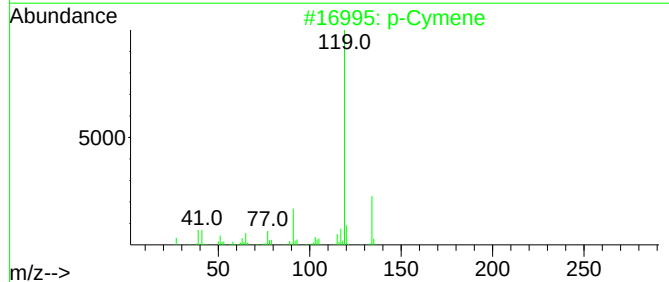
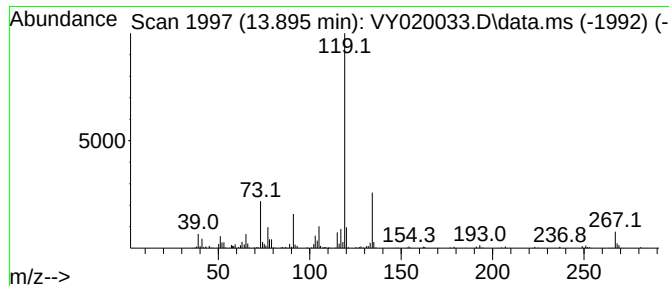
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Quant Title : SW846 8260

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

Peak Number 4 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.895	233.10 ug/l	314584	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	95
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	93
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	93
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

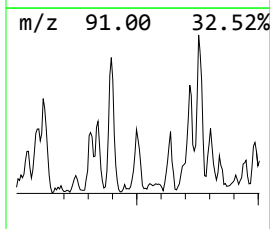
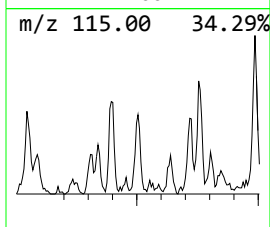
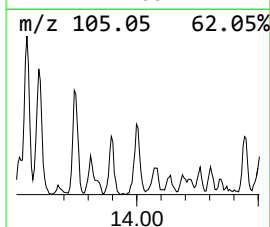
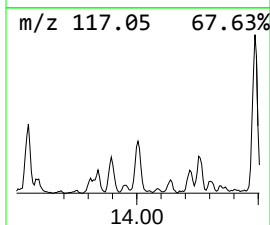
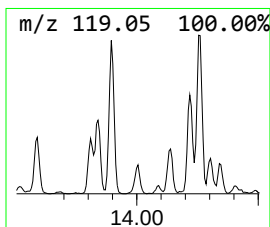
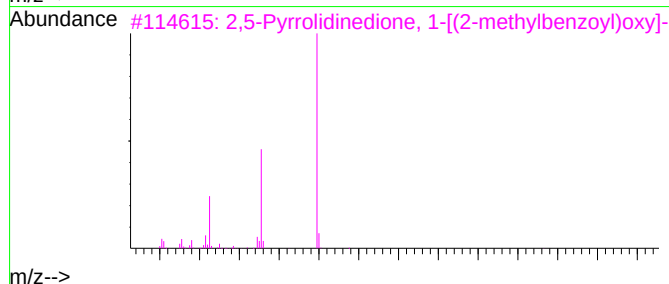
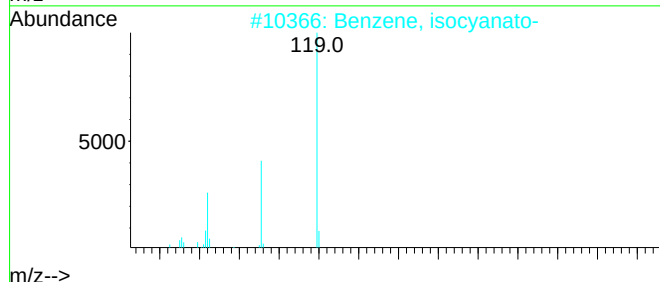
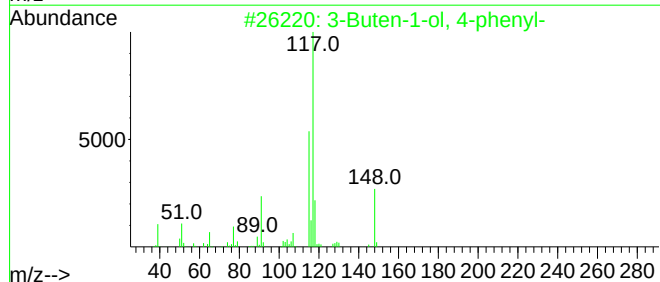
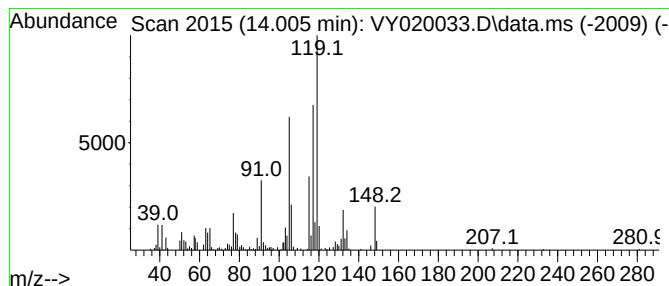
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Quant Title : SW846 8260

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

Peak Number 5 unknown14.005 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.005	83.13 ug/l	112183	1,4-Dichlorobenzene-d4	13.359

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3-Buten-1-ol, 4-phenyl-	148	C10H12O	000937-58-6	42
2			Benzene, isocyanato-	119	C7H5NO	000103-71-9	38
3			2,5-Pyrrolidinedione, 1-[(2-meth...	233	C12H11NO4	110920-14-4	38
4			Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	35
5			Benzene, 2-butenyl-	132	C10H12	001560-06-1	35



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

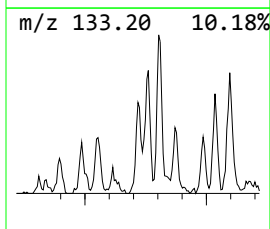
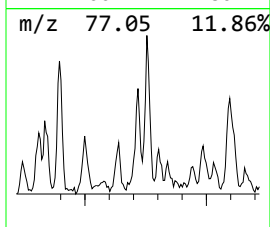
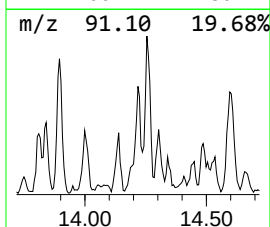
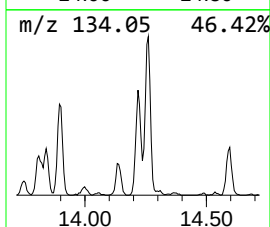
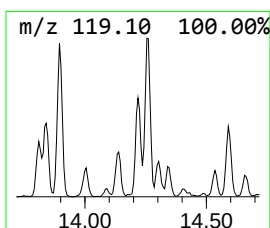
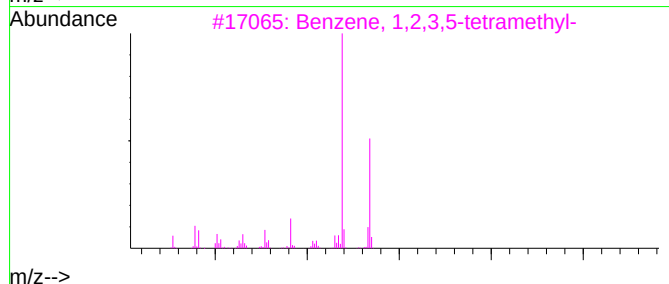
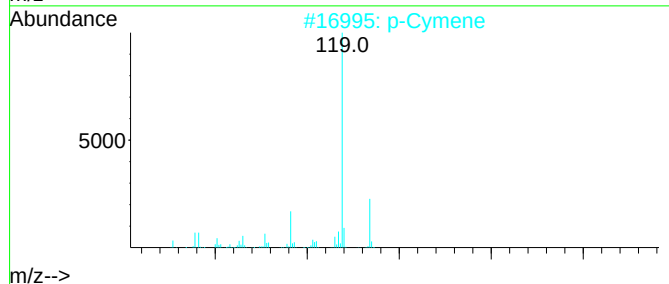
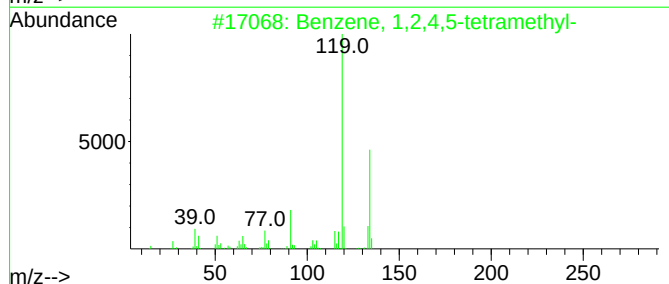
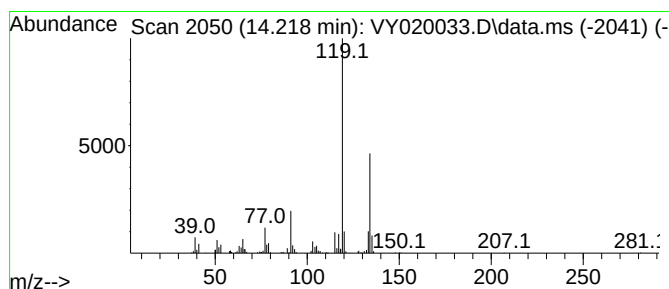
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 6 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.218	172.63 ug/l	232976	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
2	p-Cymene	134	C10H14	000099-87-6	95
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
5	o-Cymene	134	C10H14	000527-84-4	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
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Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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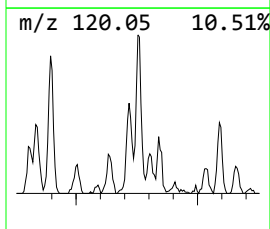
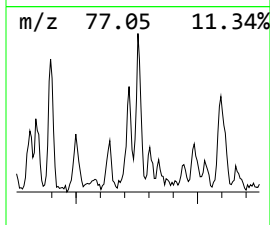
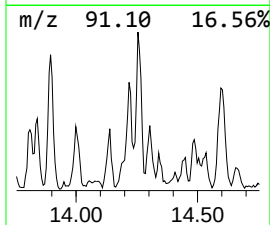
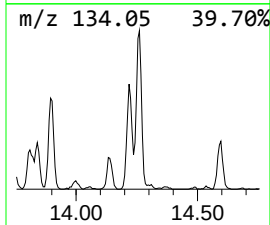
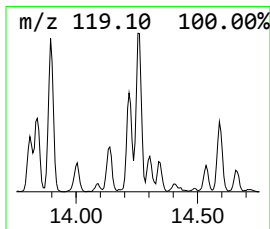
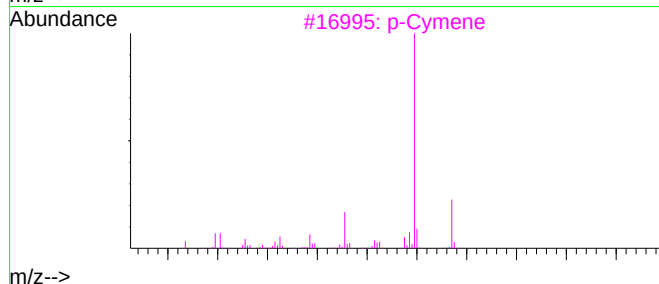
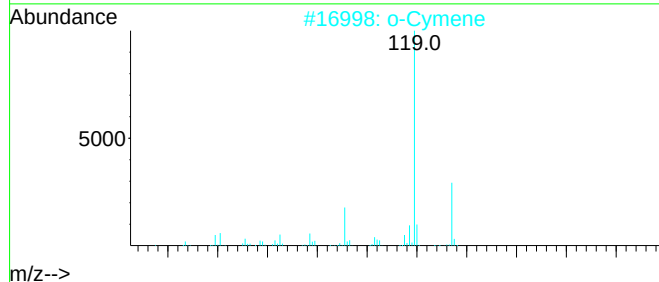
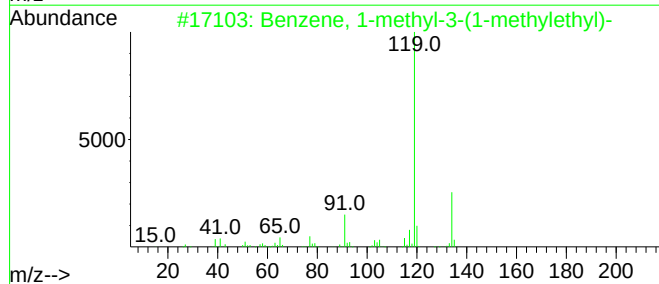
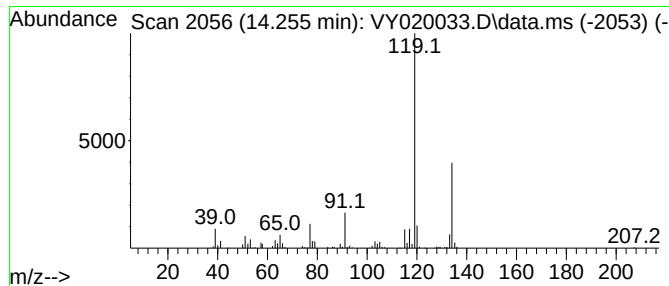
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Quant Title : SW846 8260

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

Peak Number 7 Benzene, 1-methyl-3-(1-meth... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.255	208.66 ug/l	281603	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	91
2	o-Cymene	134	C10H14	000527-84-4	91
3	p-Cymene	134	C10H14	000099-87-6	91
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

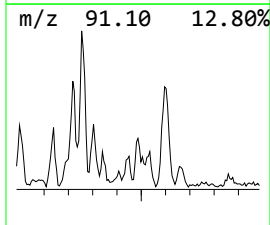
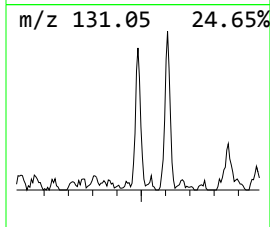
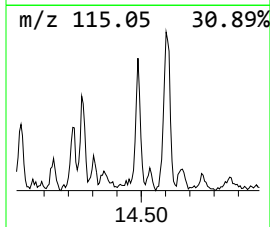
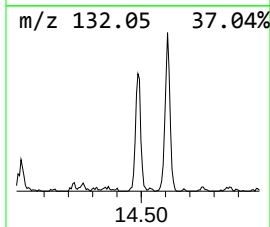
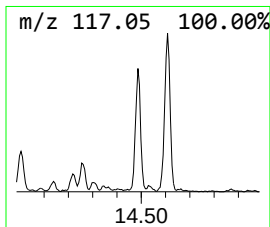
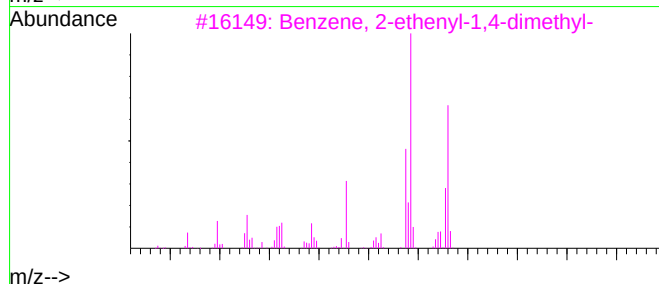
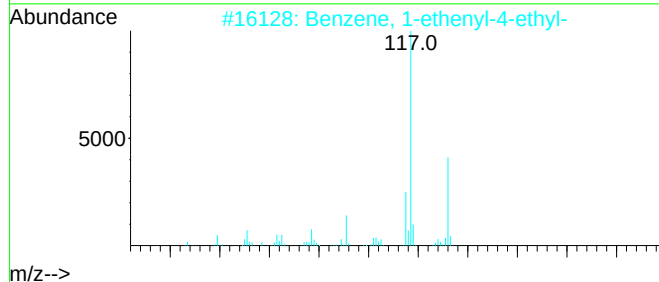
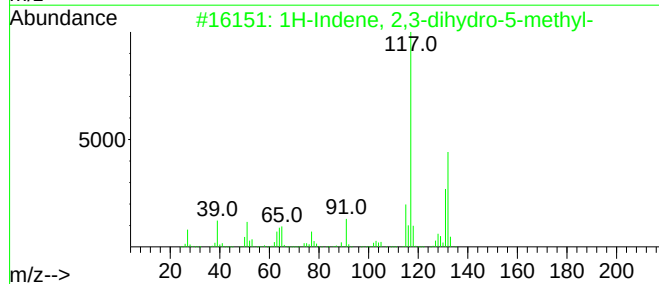
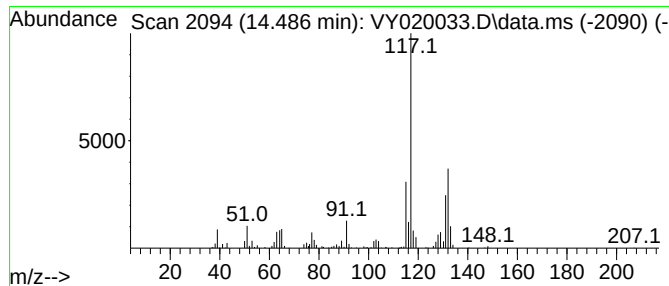
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Quant Title : SW846 8260

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

Peak Number 8 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.486	100.13 ug/l	135130	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	95
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	93
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90
4	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	87
5	1H-Indene, 2,3-dihydro-2-methyl-	132	C10H12	000824-63-5	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

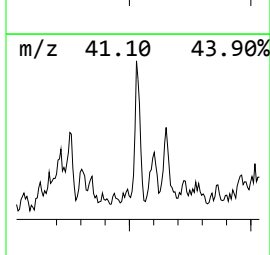
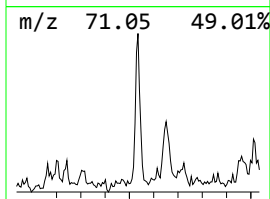
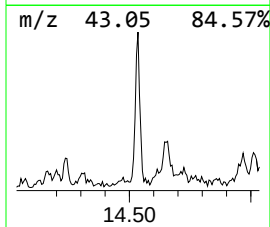
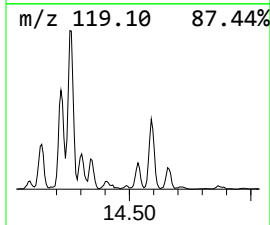
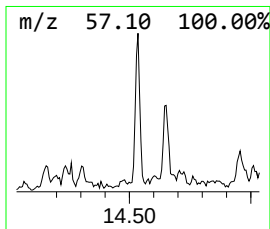
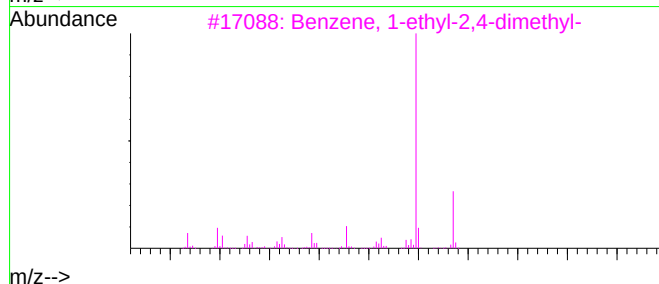
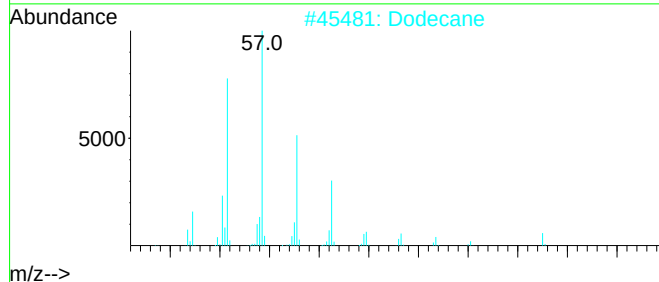
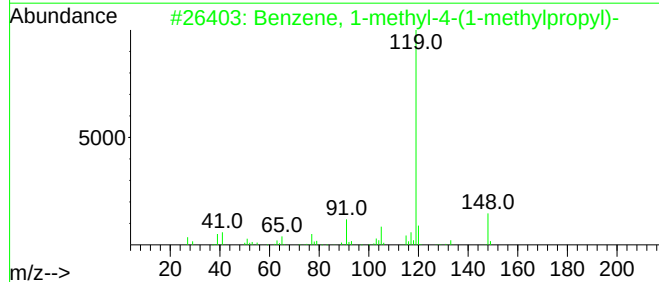
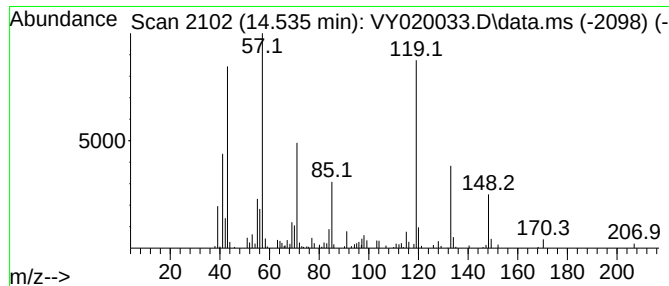
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 9 unknown14.535 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.535	91.53 ug/l	123528	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	38
2	Dodecane	170	C12H26	000112-40-3	30
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	30
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	30
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	27



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

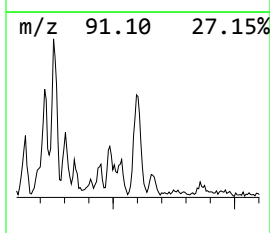
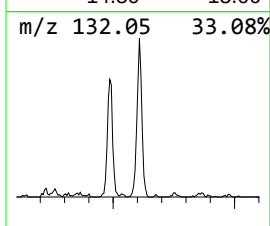
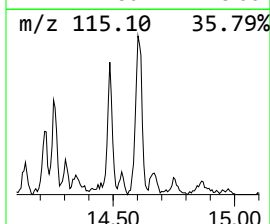
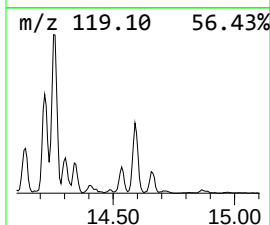
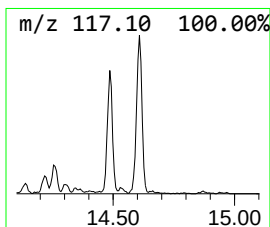
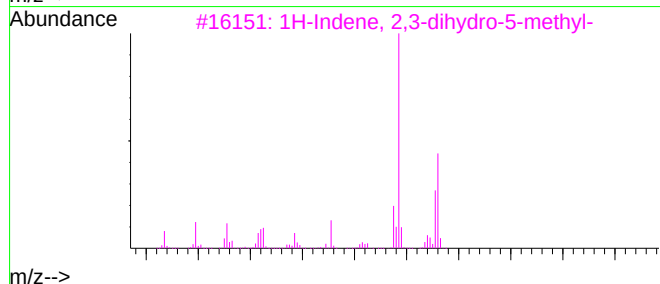
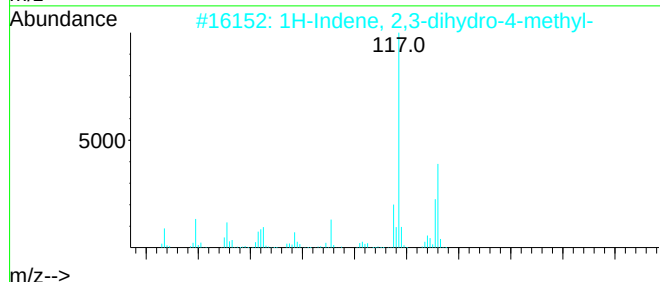
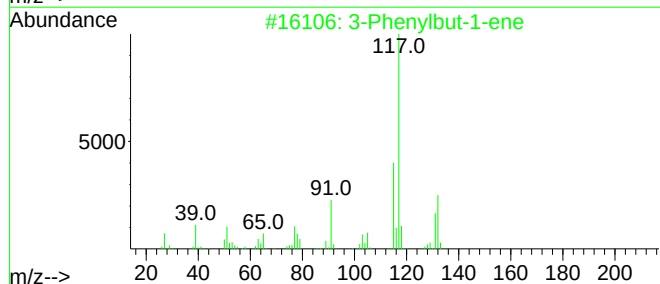
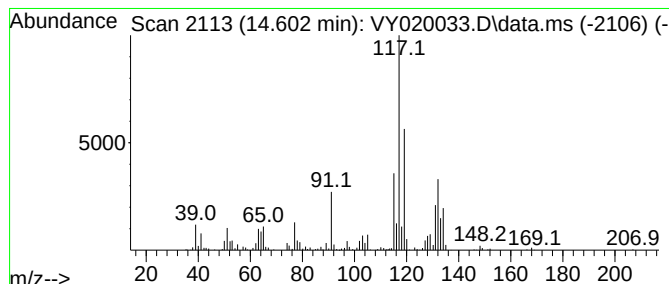
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 10 3-Phenylbut-1-ene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.602	226.02 ug/l	305033	1,4-Dichlorobenzene-d4	13.359

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Phenylbut-1-ene	132	C10H12	000934-10-1	92
2	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	70
3	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	64
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	64
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	60



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020033.D
Acq On : 28 Oct 2024 11:56
Operator : SY/MD
Sample : P4578-03
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Benzene, 1-ethe...	13.548	101.1	ug/l	136438	4	13.359	67478	50.0
Benzene, 2-ethy...	13.810	73.9	ug/l	99767	4	13.359	67478	50.0
o-Cymene	13.840	87.4	ug/l	117987	4	13.359	67478	50.0
Benzene, 2-ethy...	13.895	233.1	ug/l	314584	4	13.359	67478	50.0
unknown14.005	14.005	83.1	ug/l	112183	4	13.359	67478	50.0
Benzene, 1,2,4,...	14.218	172.6	ug/l	232976	4	13.359	67478	50.0
Benzene, 1-meth...	14.255	208.7	ug/l	281603	4	13.359	67478	50.0
1H-Indene, 2,3-...	14.486	100.1	ug/l	135130	4	13.359	67478	50.0
unknown14.535	14.535	91.5	ug/l	123528	4	13.359	67478	50.0
3-Phenylbut-1-ene	14.602	226.0	ug/l	305033	4	13.359	67478	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	58.7
Sample Wt/Vol:	7.19 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
VY020034.D	1		10/28/24 12:19	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.00	U	2.00	5.90	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	5.90	ug/Kg
75-01-4	Vinyl Chloride	0.91	U	0.91	5.90	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.90	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	5.90	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	5.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	5.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.92	U	0.92	5.90	ug/Kg
67-64-1	Acetone	48.0		7.40	29.6	ug/Kg
75-15-0	Carbon Disulfide	3.60	J	1.50	5.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.79	U	0.79	5.90	ug/Kg
79-20-9	Methyl Acetate	91.9		2.10	5.90	ug/Kg
75-09-2	Methylene Chloride	4.00	U	4.00	11.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	5.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.75	U	0.75	5.90	ug/Kg
110-82-7	Cyclohexane	0.82	U	0.82	5.90	ug/Kg
78-93-3	2-Butanone	12.7	J	6.70	29.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.72	U	0.72	5.90	ug/Kg
74-97-5	Bromochloromethane	2.90	U	2.90	5.90	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	5.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.92	U	0.92	5.90	ug/Kg
108-87-2	Methylcyclohexane	1.90	J	1.00	5.90	ug/Kg
71-43-2	Benzene	0.85	U	0.85	5.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.72	U	0.72	5.90	ug/Kg
79-01-6	Trichloroethene	0.89	U	0.89	5.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.78	U	0.78	5.90	ug/Kg
75-27-4	Bromodichloromethane	0.66	U	0.66	5.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.20	U	5.20	29.6	ug/Kg
108-88-3	Toluene	4.20	J	0.79	5.90	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1			SDG No.:	P4578
Lab Sample ID:	P4578-04			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	58.7
Sample Wt/Vol:	7.19	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
VY020034.D	1		10/28/24 12:19	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.71	U	0.71	5.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.68	U	0.68	5.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.00	U	1.00	5.90	ug/Kg
591-78-6	2-Hexanone	5.70	U	5.70	29.6	ug/Kg
124-48-1	Dibromochloromethane	0.77	U	0.77	5.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.94	U	0.94	5.90	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.90	ug/Kg
108-90-7	Chlorobenzene	0.88	U	0.88	5.90	ug/Kg
100-41-4	Ethyl Benzene	0.73	U	0.73	5.90	ug/Kg
179601-23-1	m/p-Xylenes	1.60	U	1.60	11.8	ug/Kg
95-47-6	o-Xylene	3.40	J	0.83	5.90	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.90	ug/Kg
75-25-2	Bromoform	0.96	U	0.96	5.90	ug/Kg
98-82-8	Isopropylbenzene	5.00	J	0.79	5.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.88	U	0.88	5.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.95	U	0.95	5.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.70	U	0.70	5.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.94	U	0.94	5.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.92	U	0.92	5.90	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	58.9	70 (50) - 130 (163)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6	70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	51.7	70 (58) - 130 (134)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6	70 (29) - 130 (146)	91%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	189000	7.713
540-36-3	1,4-Difluorobenzene	387000	8.616
3114-55-4	Chlorobenzene-d5	355000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	58.7
Sample Wt/Vol:	7.19 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
VY020034.D	1		10/28/24 12:19	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
103-65-1	n-propylbenzene	1.20	J		12.6	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	6.10	J		12.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	24.9	J		13.0	ug/Kg
99-87-6	p-Isopropyltoluene	2.60	J		13.3	ug/Kg
104-51-8	n-Butylbenzene	5.70	J		13.6	ug/Kg
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	120	J		13.9	ug/Kg
001587-04-8	Benzene, 1-methyl-2-(2-propenyl)-	59.9	J		14.0	ug/Kg
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	110	J		14.2	ug/Kg
000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	150	J		14.3	ug/Kg
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	86.6	J		14.5	ug/Kg
	unknown14.529	60.2	J		14.5	ug/Kg
000934-10-1	3-Phenylbut-1-ene	190	J		14.6	ug/Kg
000629-50-5	Tridecane	55.0	J		15.3	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\VY102824\
 Data File : VY020034.D
 Acq On : 28 Oct 2024 12:19
 Operator : SY/MD
 Sample : P4578-04
 Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-305-TOP-1

Quant Time: Oct 29 01:56:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

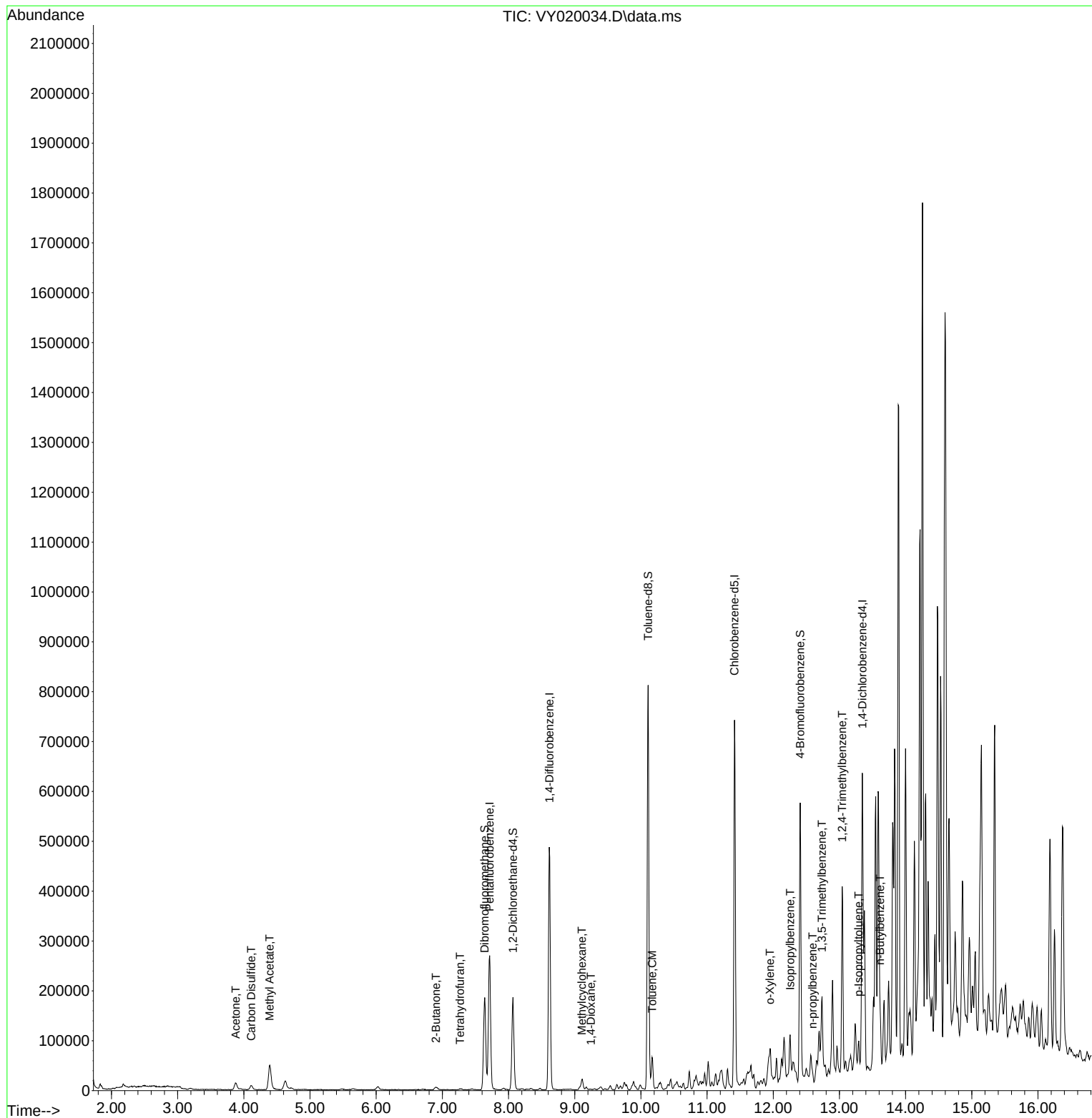
Internal Standards						
1) Pentafluorobenzene	7.713	168	189016	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	386680	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	354785	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	133013	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	137110	58.913	ug/l	0.00
Spiked Amount	50.000	Range 50 - 163	Recovery	= 117.820%		
35) Dibromofluoromethane	7.640	113	129124	50.604	ug/l	0.00
Spiked Amount	50.000	Range 54 - 147	Recovery	= 101.200%		
50) Toluene-d8	10.109	98	486723	51.653	ug/l	0.00
Spiked Amount	50.000	Range 58 - 134	Recovery	= 103.300%		
62) 4-Bromofluorobenzene	12.408	95	155308	45.615	ug/l	0.00
Spiked Amount	50.000	Range 29 - 146	Recovery	= 91.220%		
Target Compounds						
						Qvalue
16) Acetone	3.879	43	24523	40.477	ug/l #	76
17) Carbon Disulfide	4.110	76	16417	3.021	ug/l	100
18) Methyl Acetate	4.391	43	101283	77.606	ug/l #	85
25) 2-Butanone	6.902	43	8676	10.699	ug/l #	83
29) Tetrahydrofuran	7.268	42	1590	3.434	ug/l #	75
39) Methylcyclohexane	9.109	83	7326	1.582	ug/l #	82
49) 1,4-Dioxane	9.243	88	694	40.756	ug/l #	34
52) Toluene	10.170	92	24760	3.565	ug/l	98
69) o-Xylene	11.950	106	14909	2.850	ug/l	94
73) Isopropylbenzene	12.255	105	46935	4.195	ug/l	98
78) n-propylbenzene	12.597	91	13628	1.008	ug/l	93
80) 1,3,5-Trimethylbenzene	12.737	105	46294	5.124	ug/l	97
84) 1,2,4-Trimethylbenzene	13.042	105	188500	21.042	ug/l	97
86) p-Isopropyltoluene	13.292	119	21159	2.155	ug/l	91
89) n-Butylbenzene	13.615	91	46394	4.838	ug/l #	65

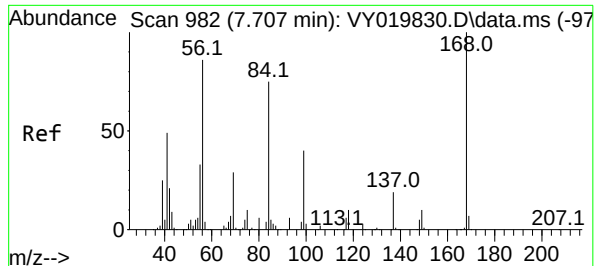
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Quant Time: Oct 29 01:56:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

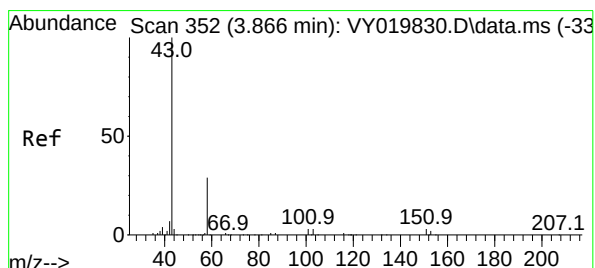
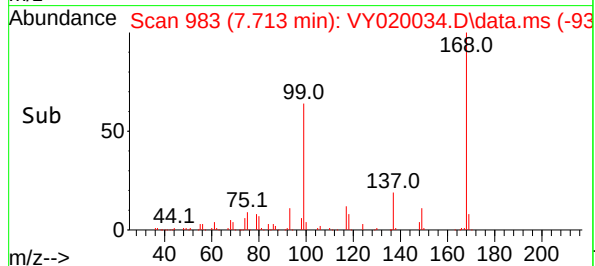
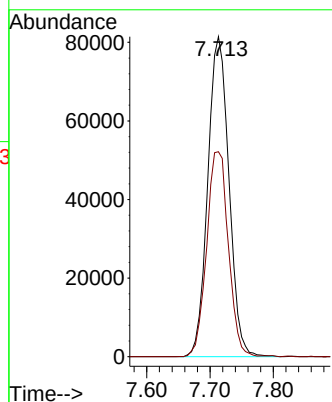
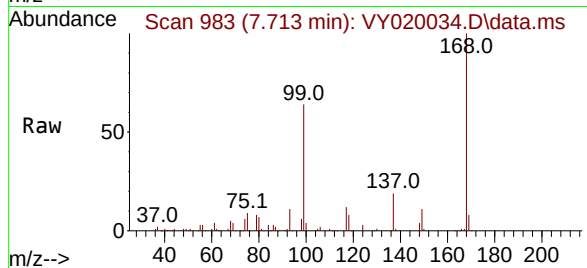




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

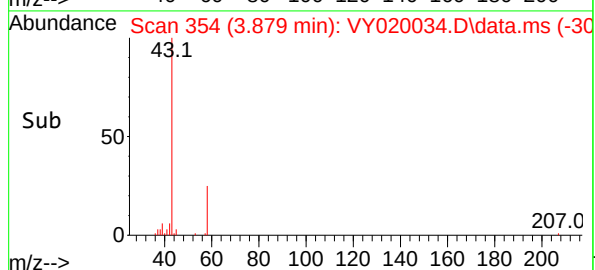
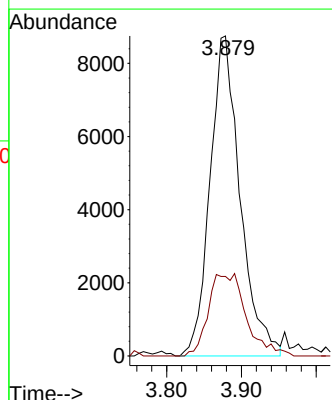
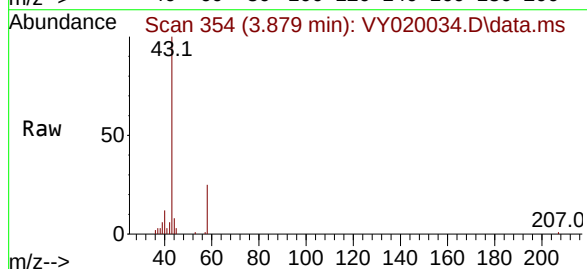
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

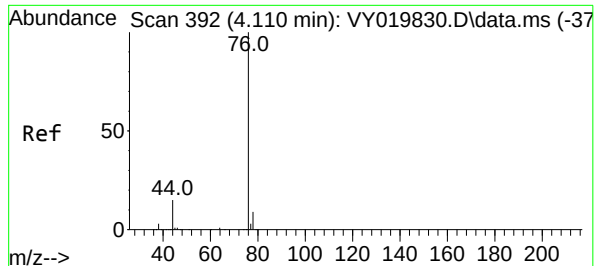
Tgt Ion:168 Resp: 189016
Ion Ratio Lower Upper
168 100
99 64.1 39.1 58.7#



#16
Acetone
Concen: 40.477 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion: 43 Resp: 24523
Ion Ratio Lower Upper
43 100
58 24.8 31.7 47.5#





#17

Carbon Disulfide

Concen: 3.021 ug/l

RT: 4.110 min Scan# 392

Delta R.T. 0.006 min

Lab File: VY020034.D

Acq: 28 Oct 2024 12:19

Instrument :

MSVOA_Y

ClientSampleId :

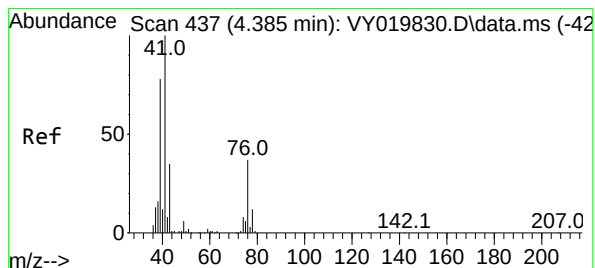
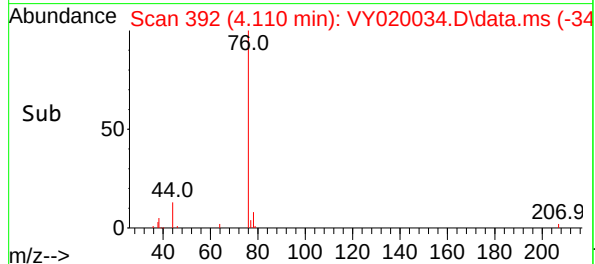
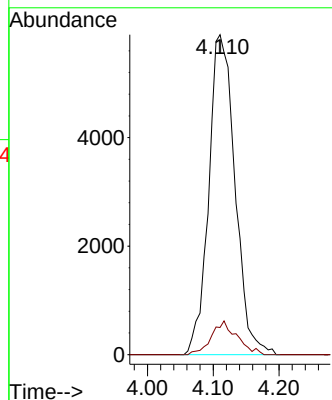
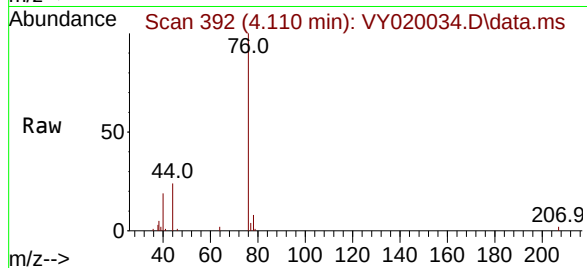
WB-305-TOP-1

Tgt Ion: 76 Resp: 16417

Ion Ratio Lower Upper

76 100

78 8.5 6.8 10.2



#18

Methyl Acetate

Concen: 77.606 ug/l

RT: 4.391 min Scan# 438

Delta R.T. 0.006 min

Lab File: VY020034.D

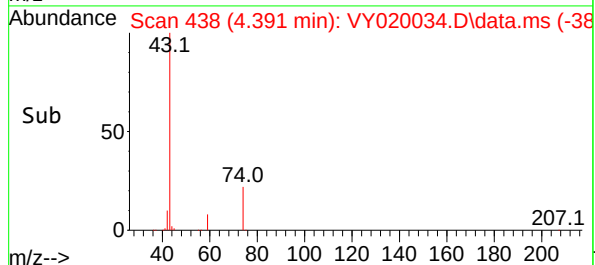
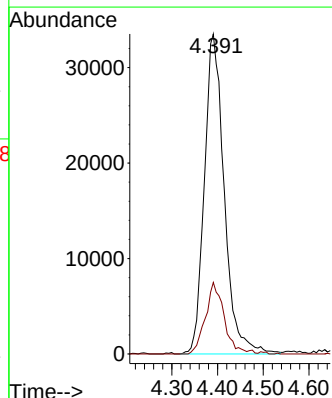
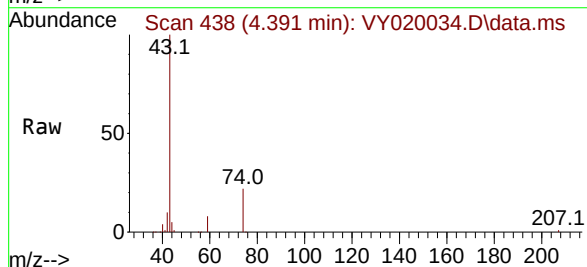
Acq: 28 Oct 2024 12:19

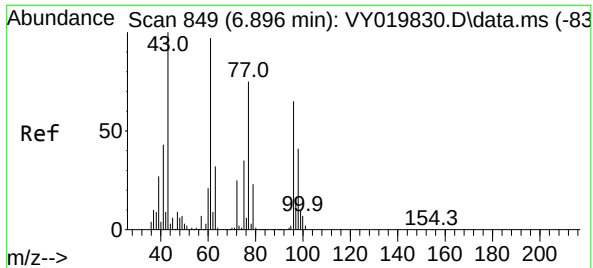
Tgt Ion: 43 Resp: 101283

Ion Ratio Lower Upper

43 100

74 20.8 23.3 34.9#

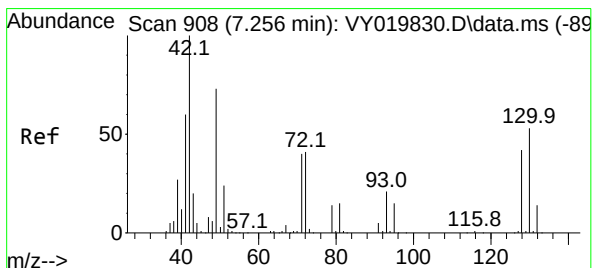
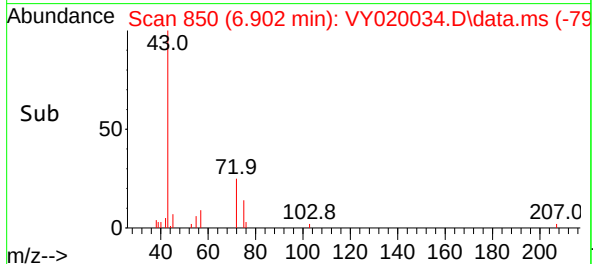
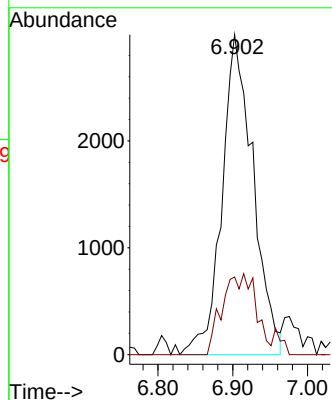
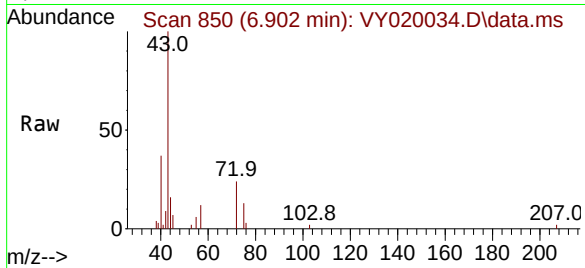




#25
2-Butanone
Concen: 10.699 ug/l
RT: 6.902 min Scan# 81
Delta R.T. 0.012 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

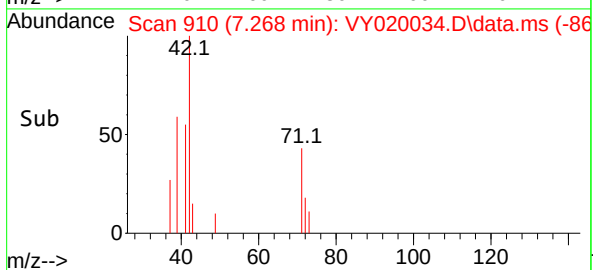
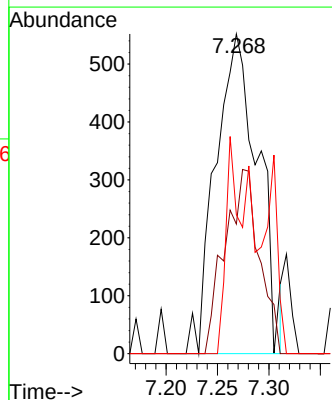
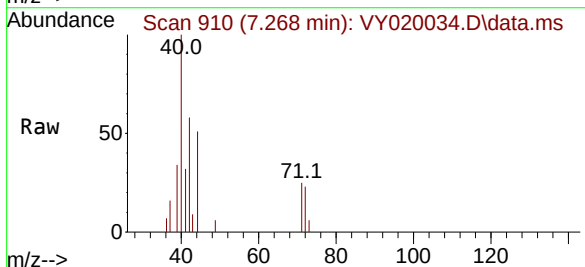
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

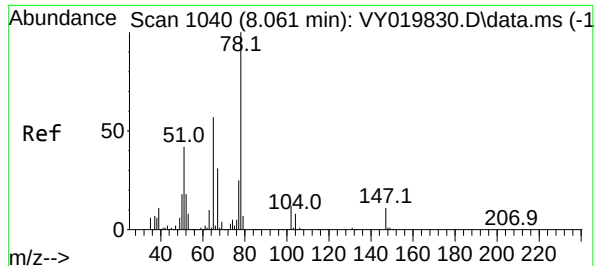
Tgt Ion: 43 Resp: 8676
Ion Ratio Lower Upper
43 100
72 24.3 27.3 40.9#



#29
Tetrahydrofuran
Concen: 3.434 ug/l
RT: 7.268 min Scan# 910
Delta R.T. 0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion: 42 Resp: 1590
Ion Ratio Lower Upper
42 100
72 46.6 43.0 64.4
71 22.0 40.8 61.2#





#33

1,2-Dichloroethane-d4

Concen: 58.913 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY020034.D

Acq: 28 Oct 2024 12:19

Instrument :

MSVOA_Y

ClientSampleId :

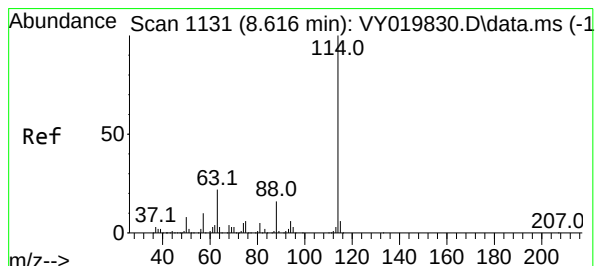
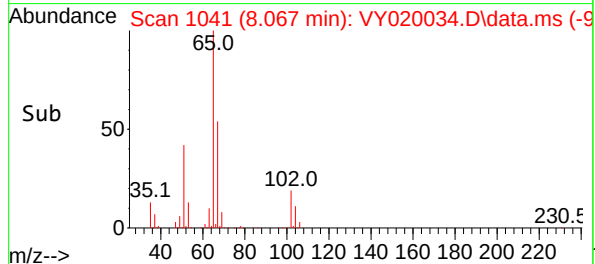
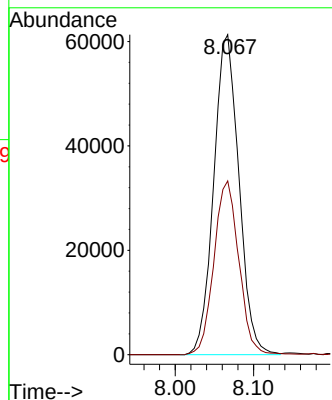
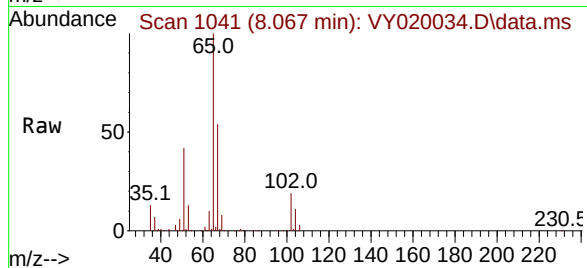
WB-305-TOP-1

Tgt Ion: 65 Resp: 137110

Ion Ratio Lower Upper

65 100

67 53.6 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY020034.D

Acq: 28 Oct 2024 12:19

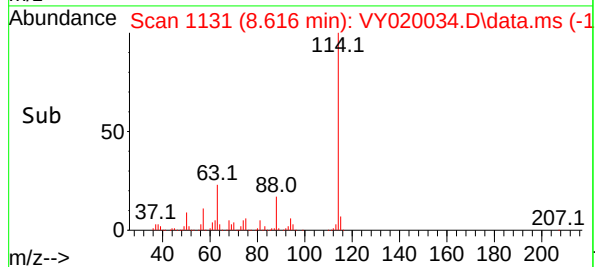
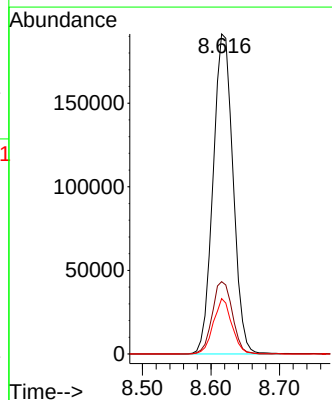
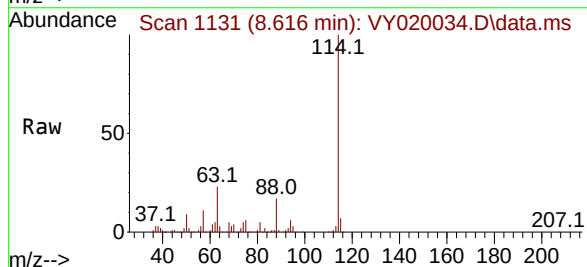
Tgt Ion: 114 Resp: 386680

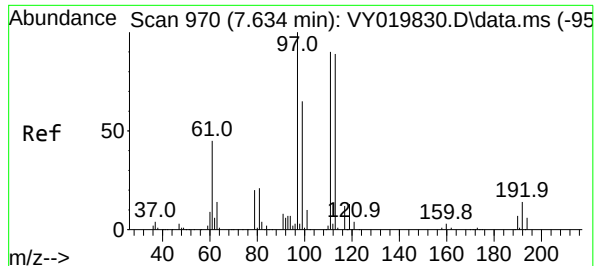
Ion Ratio Lower Upper

114 100

63 22.6 0.0 35.0

88 17.3 0.0 27.2





#35

Dibromofluoromethane

Concen: 50.604 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY020034.D

Acq: 28 Oct 2024 12:19

Instrument :

MSVOA_Y

ClientSampleId :

WB-305-TOP-1

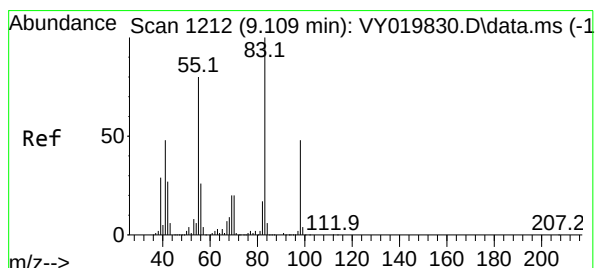
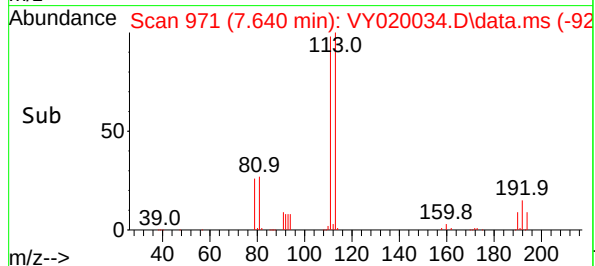
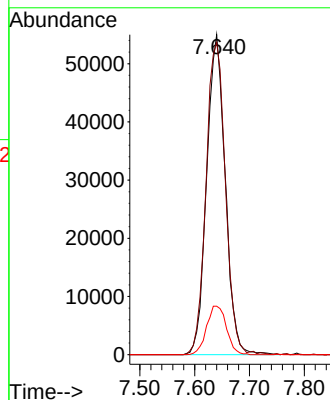
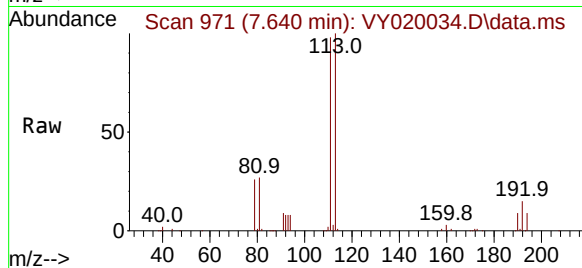
Tgt Ion:113 Resp: 129124

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

192 16.2 15.9 23.9



#39

Methylcyclohexane

Concen: 1.582 ug/l

RT: 9.109 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VY020034.D

Acq: 28 Oct 2024 12:19

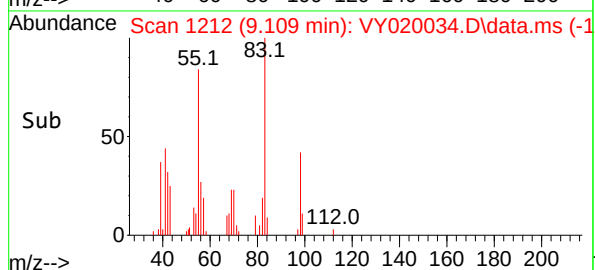
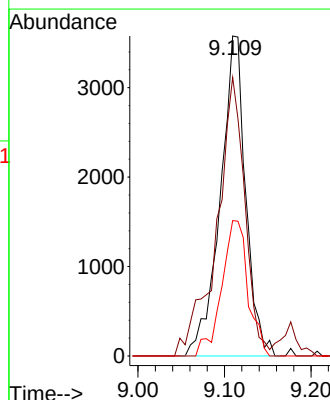
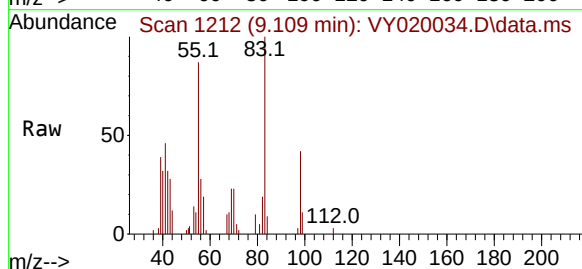
Tgt Ion: 83 Resp: 7326

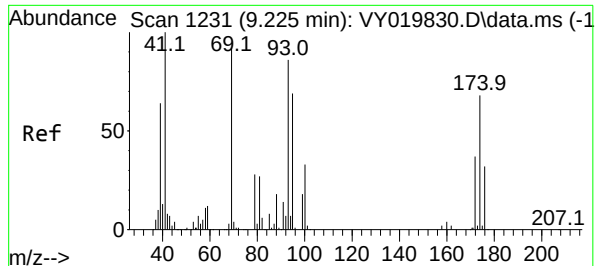
Ion Ratio Lower Upper

83 100

55 82.1 51.5 77.3#

98 42.3 40.5 60.7





#49

1,4-Dioxane

Concen: 40.756 ug/l

RT: 9.243 min Scan# 1231

Delta R.T. 0.012 min

Lab File: VY020034.D

Acq: 28 Oct 2024 12:19

Instrument :

MSVOA_Y

ClientSampleId :

WB-305-TOP-1

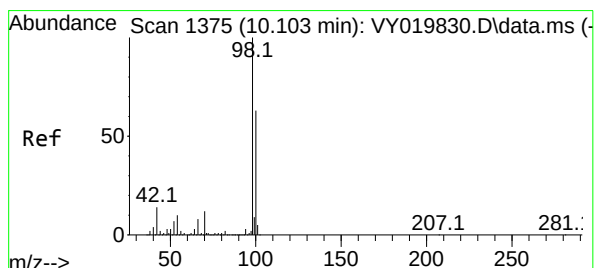
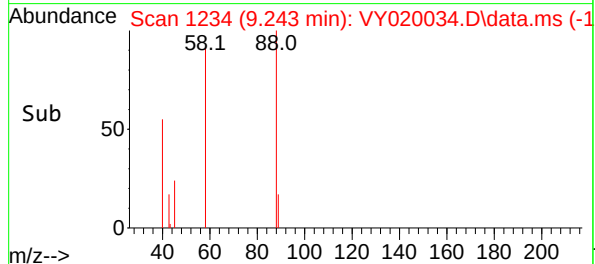
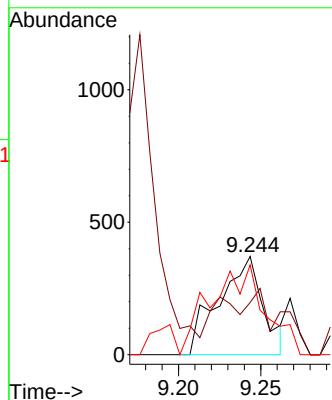
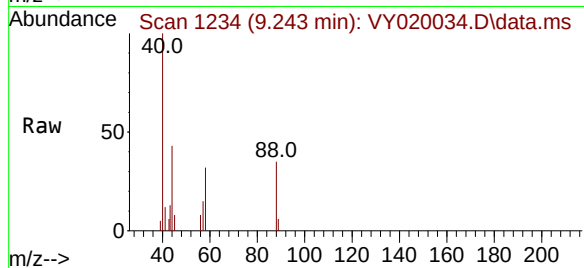
Tgt Ion: 88 Resp: 694

Ion Ratio Lower Upper

88 100

43 24.8 0.0 0.0#

58 112.2 49.3 73.9#



#50

Toluene-d8

Concen: 51.653 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY020034.D

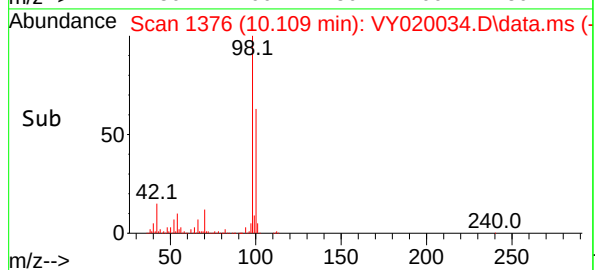
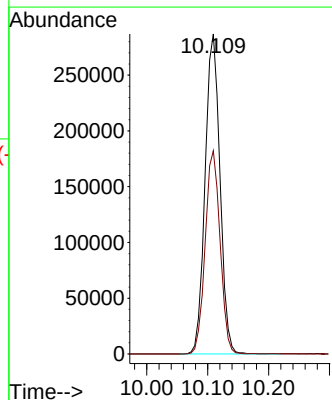
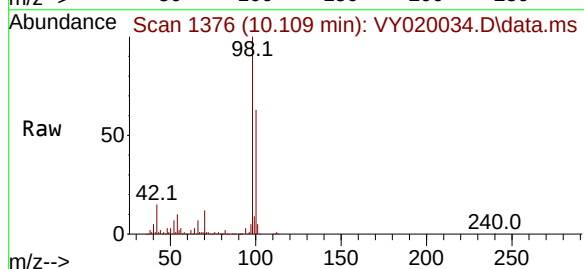
Acq: 28 Oct 2024 12:19

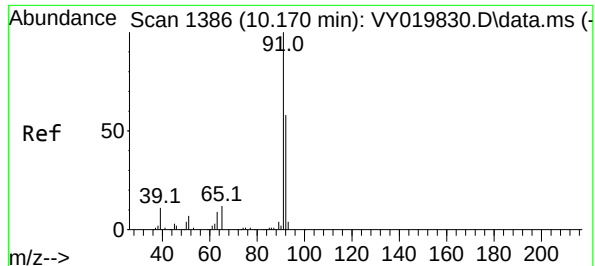
Tgt Ion: 98 Resp: 486723

Ion Ratio Lower Upper

98 100

100 63.5 52.0 78.0

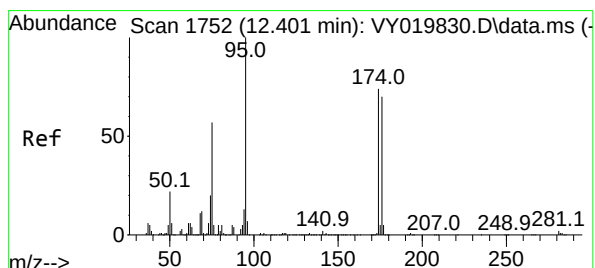
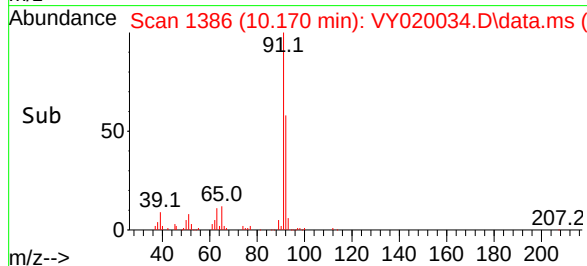
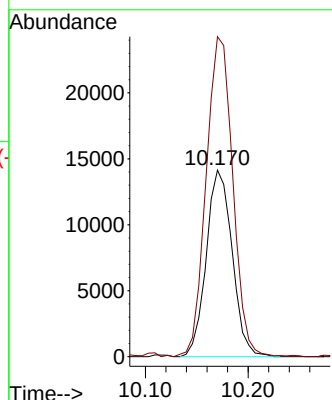
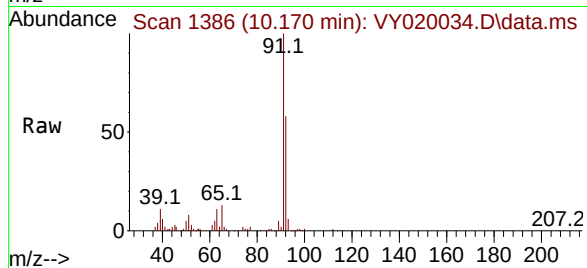




#52
Toluene
Concen: 3.565 ug/l
RT: 10.170 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

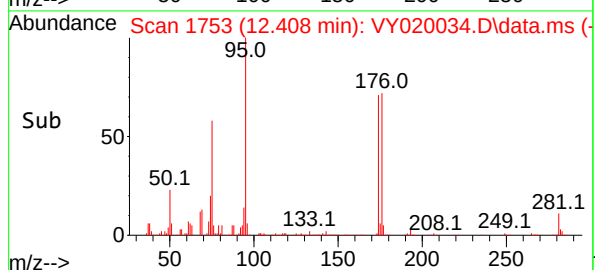
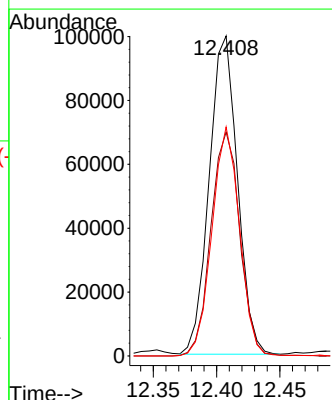
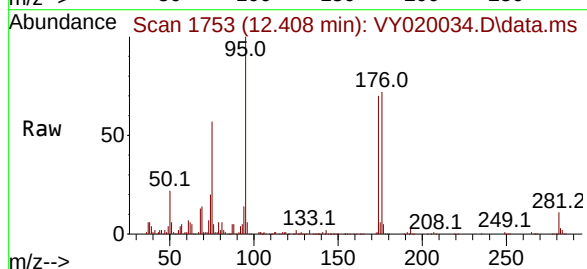
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

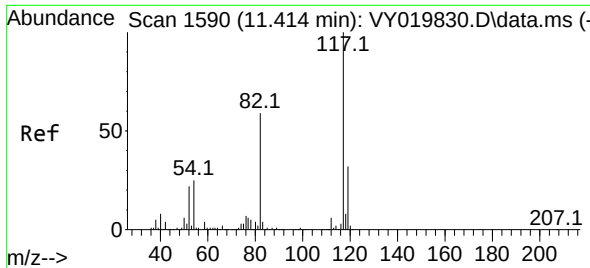
Tgt Ion: 92 Resp: 24760
Ion Ratio Lower Upper
92 100
91 176.6 139.0 208.6



#62
4-Bromofluorobenzene
Concen: 45.615 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion: 95 Resp: 155308
Ion Ratio Lower Upper
95 100
174 71.9 0.0 175.6
176 70.1 0.0 171.4

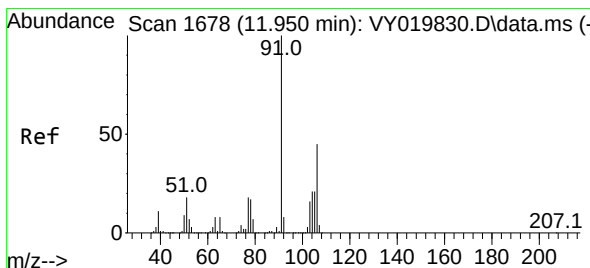
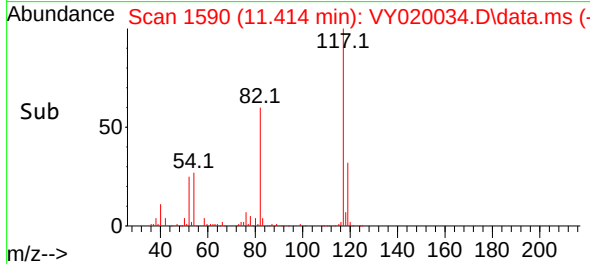
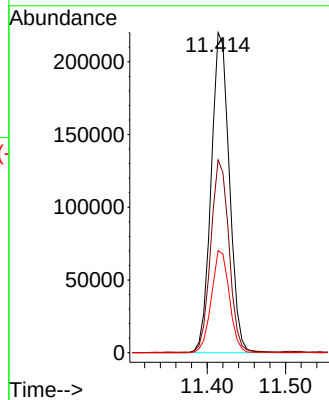
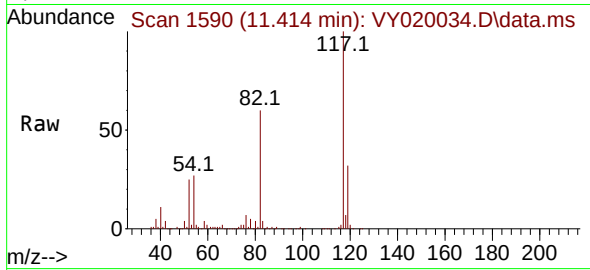




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

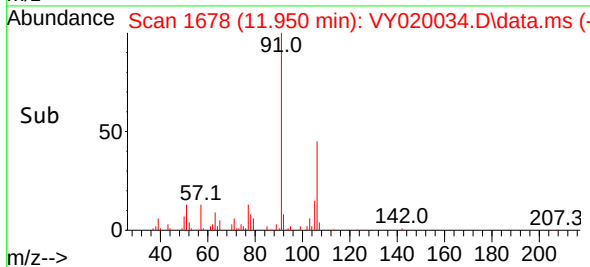
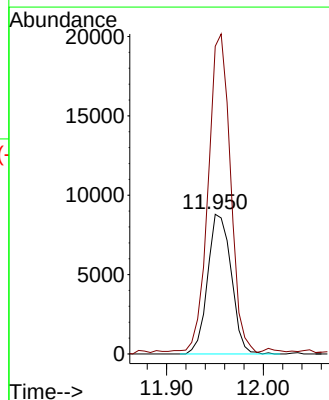
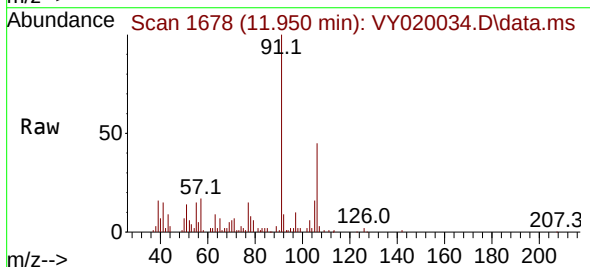
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

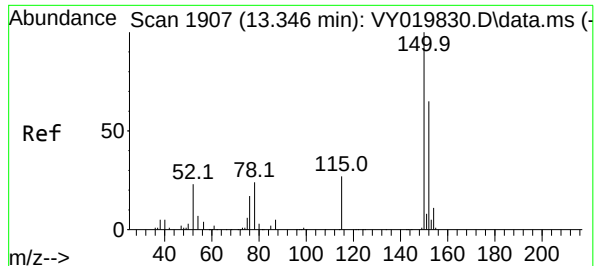
Tgt Ion:117 Resp: 354785
Ion Ratio Lower Upper
117 100
82 60.1 42.4 63.6
119 31.9 25.9 38.9



#69
o-Xylene
Concen: 2.850 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion:106 Resp: 14909
Ion Ratio Lower Upper
106 100
91 215.9 103.6 310.8

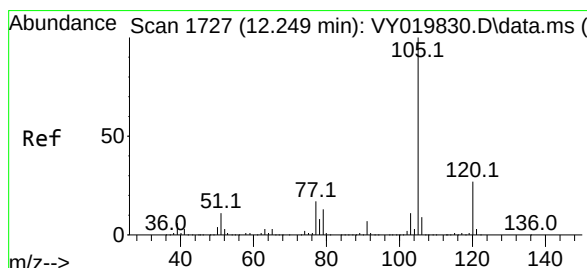
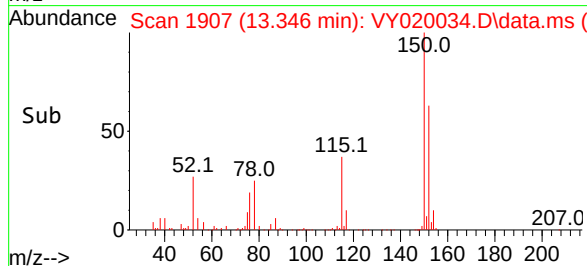
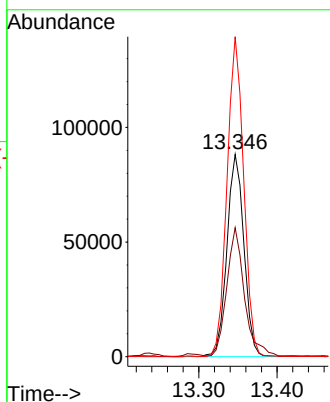
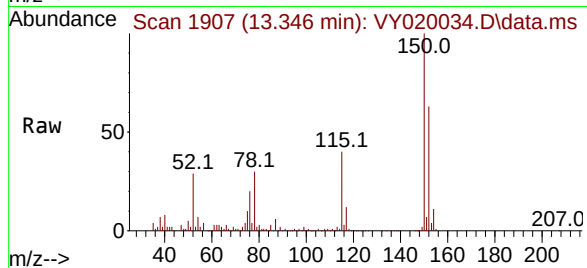




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

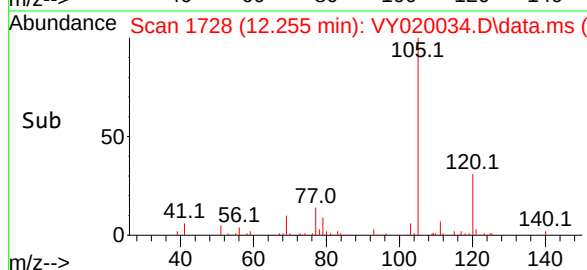
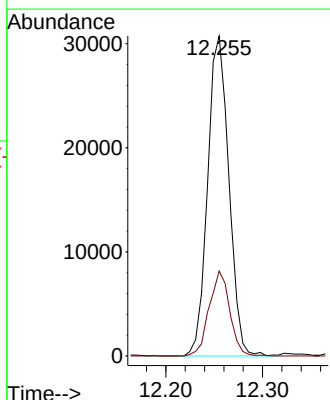
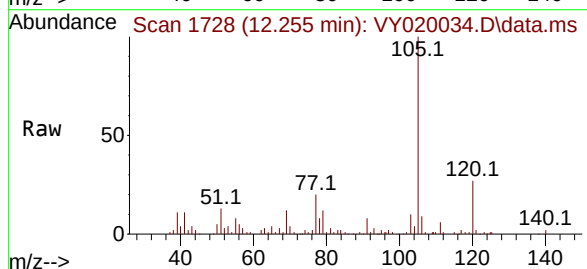
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

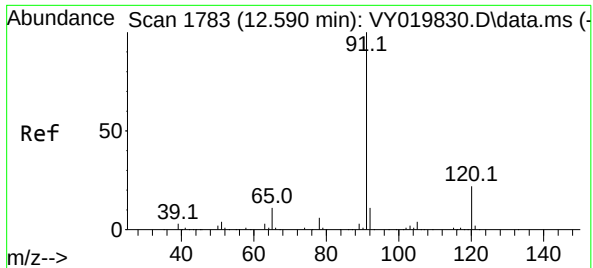
Tgt Ion:152 Resp: 133013
Ion Ratio Lower Upper
152 100
115 65.5 28.2 84.7
150 154.6 0.0 345.6



#73
Isopropylbenzene
Concen: 4.195 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion:105 Resp: 46935
Ion Ratio Lower Upper
105 100
120 25.7 13.4 40.1





#78

n-propylbenzene

Concen: 1.008 ug/l

RT: 12.597 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY020034.D

Acq: 28 Oct 2024 12:19

Instrument :

MSVOA_Y

ClientSampleId :

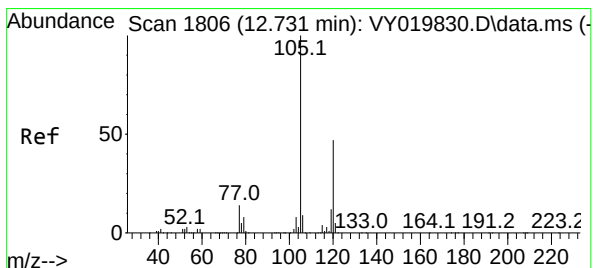
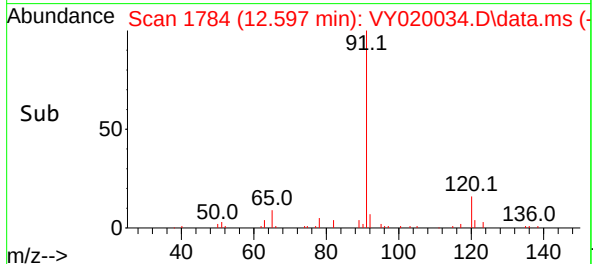
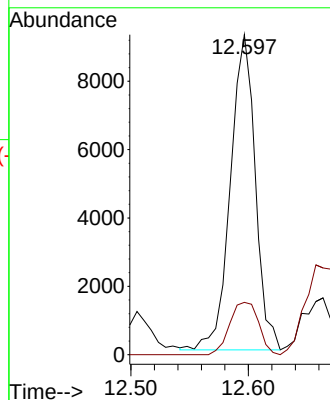
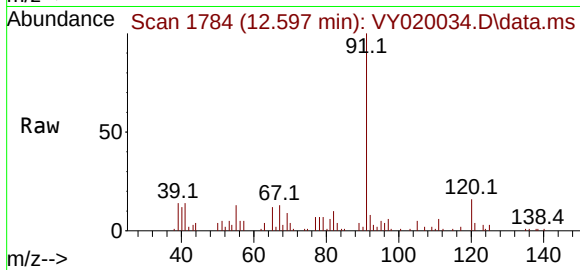
WB-305-TOP-1

Tgt Ion: 91 Resp: 13628

Ion Ratio Lower Upper

91 100

120 19.3 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 5.124 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY020034.D

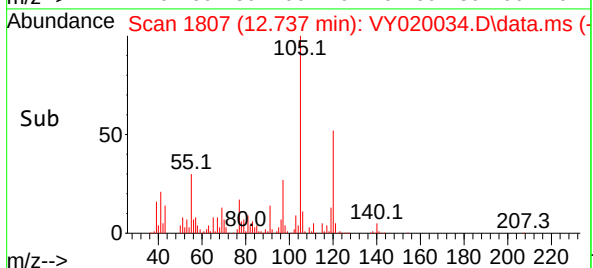
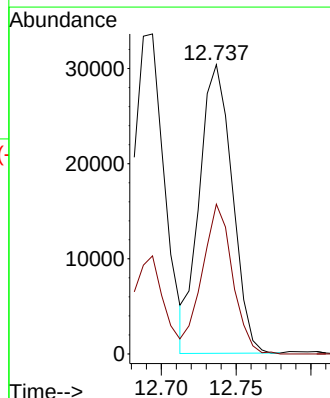
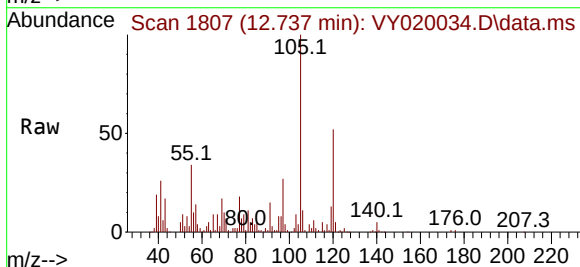
Acq: 28 Oct 2024 12:19

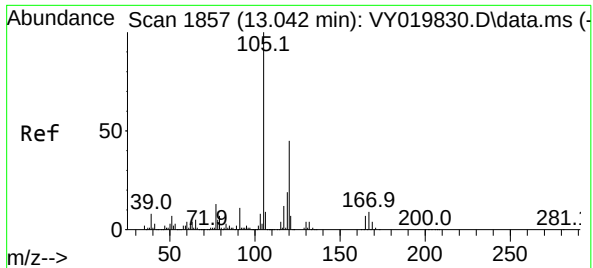
Tgt Ion: 105 Resp: 46294

Ion Ratio Lower Upper

105 100

120 48.1 25.1 75.2

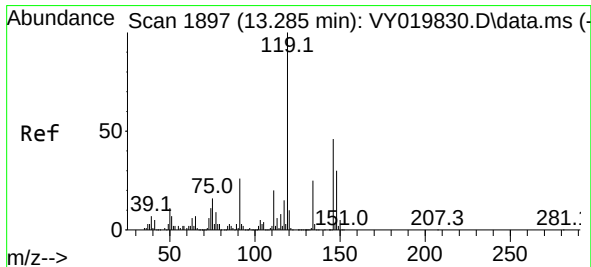
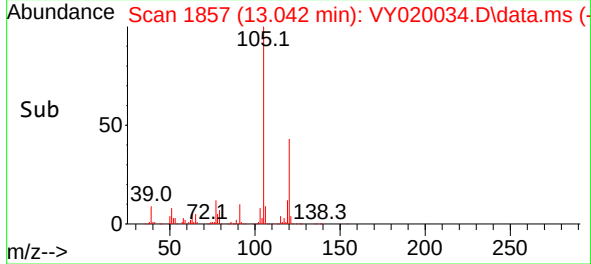
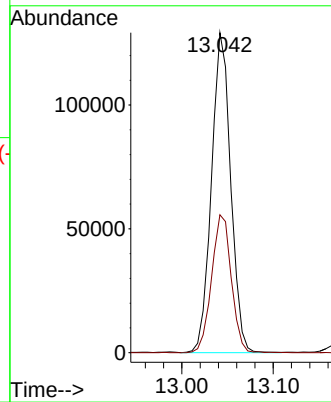
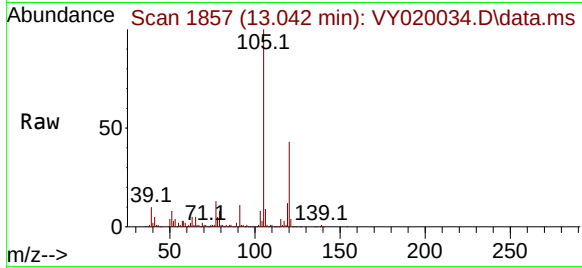




#84
1,2,4-Trimethylbenzene
Concen: 21.042 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

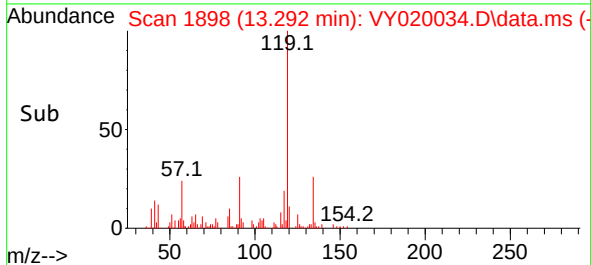
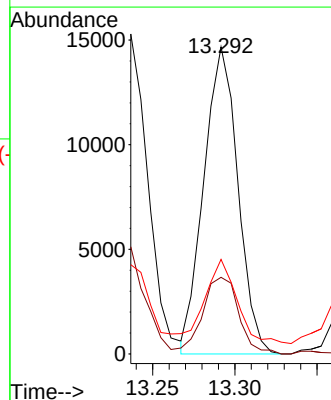
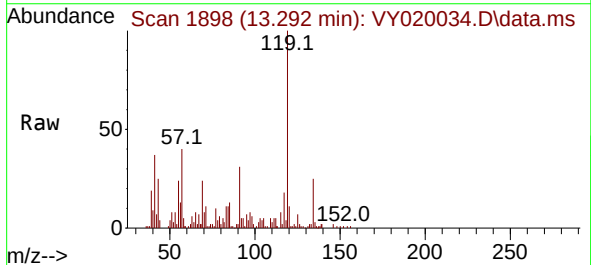
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

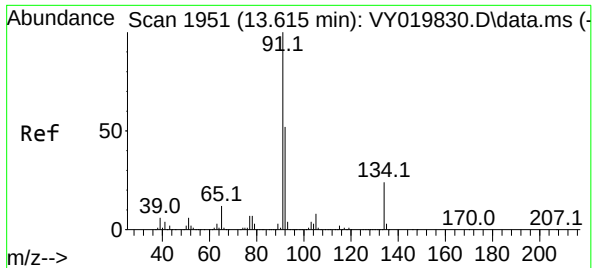
Tgt Ion:105 Resp: 188500
Ion Ratio Lower Upper
105 100
120 44.1 23.2 69.6



#86
p-Isopropyltoluene
Concen: 2.155 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020034.D
Acq: 28 Oct 2024 12:19

Tgt Ion:119 Resp: 21159
Ion Ratio Lower Upper
119 100
134 26.6 13.1 39.3
91 30.0 10.7 32.1





#89

n-Butylbenzene

Concen: 4.838 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. -0.006 min

Lab File: VY020034.D

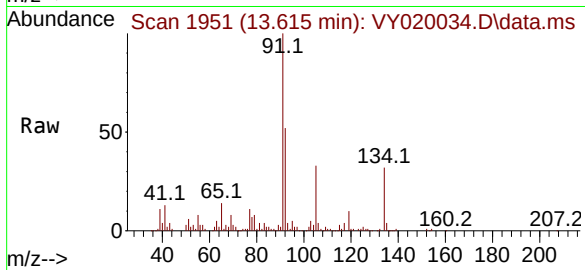
Acq: 28 Oct 2024 12:19

Instrument :

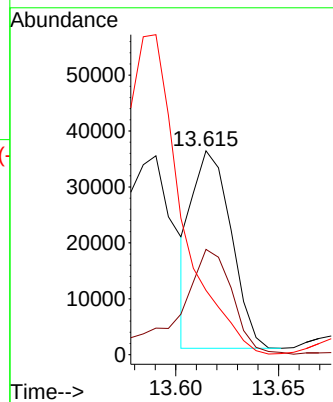
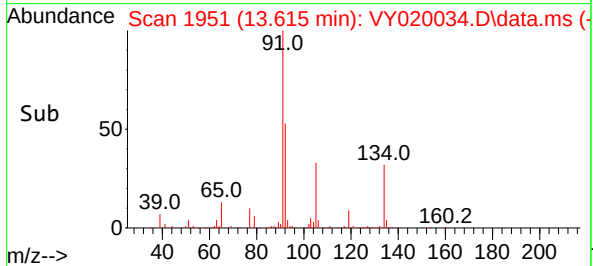
MSVOA_Y

ClientSampleId :

WB-305-TOP-1



Tgt Ion:	91	Resp:	46394
Ion	Ratio	Lower	Upper
91	100		
92	72.5	26.6	79.7
134	0.0	12.9	38.7#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020034.D
 Acq On : 28 Oct 2024 12:19
 Operator : SY/MD
 Sample : P4578-04
 Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-305-TOP-1

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y1009245.M
 Title : SW846 8260

Signal : TIC: VY020034.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.873	343	353	362	rBV2	13876	41343	1.34%	0.110%
2	4.391	428	438	448	rBV	49013	144029	4.67%	0.383%
3	4.628	465	477	486	rBV2	17525	57380	1.86%	0.152%
4	7.640	961	971	977	rBV	185132	445648	14.46%	1.184%
5	7.713	977	983	994	rVB	267843	620236	20.12%	1.648%
6	8.067	1031	1041	1052	rBV	185887	405743	13.16%	1.078%
7	8.616	1122	1131	1142	rBV	486181	971182	31.51%	2.580%
8	9.115	1200	1213	1218	rBV5	21885	57414	1.86%	0.153%
9	9.890	1330	1340	1349	rBV6	16417	47345	1.54%	0.126%
10	10.109	1368	1376	1382	rBV	810445	1411187	45.78%	3.749%
11	10.170	1382	1386	1393	rVB	62901	115237	3.74%	0.306%
12	10.451	1428	1432	1437	rVB	18957	31292	1.02%	0.083%
13	10.542	1437	1447	1454	rBV7	13949	44557	1.45%	0.118%
14	10.731	1473	1478	1484	rVB	34777	55568	1.80%	0.148%
15	10.835	1491	1495	1501	rVB2	19418	37485	1.22%	0.100%
16	10.963	1513	1516	1520	rVB2	24551	32632	1.06%	0.087%
17	11.018	1520	1525	1531	rVB	49623	80149	2.60%	0.213%
18	11.127	1538	1543	1548	rBV3	23956	41601	1.35%	0.111%
19	11.219	1552	1558	1567	rVB6	36937	108034	3.50%	0.287%
20	11.310	1567	1573	1582	rBV	39147	78242	2.54%	0.208%
21	11.414	1582	1590	1603	rBV	736794	1211472	39.30%	3.219%
22	11.615	1616	1623	1624	rBV6	24793	49503	1.61%	0.132%
23	11.664	1628	1631	1635	rVV	38428	64030	2.08%	0.170%
24	11.706	1635	1638	1643	rVB4	27257	41398	1.34%	0.110%
25	11.950	1667	1678	1686	rBV5	74435	248276	8.05%	0.660%
26	12.048	1690	1694	1698	rVB	48274	67323	2.18%	0.179%
27	12.127	1702	1707	1709	rVV3	42759	69840	2.27%	0.186%
28	12.164	1709	1713	1719	rVV3	84395	157581	5.11%	0.419%
29	12.255	1723	1728	1732	rVV	85390	140131	4.55%	0.372%
30	12.298	1732	1735	1747	rVB	39307	120054	3.89%	0.319%
31	12.408	1747	1753	1762	rBV2	559242	954852	30.98%	2.537%
32	12.566	1775	1779	1787	rVB3	54536	116092	3.77%	0.308%
33	12.651	1787	1793	1796	rBV5	43482	85815	2.78%	0.228%
34	12.694	1796	1800	1802	rVV	74681	109505	3.55%	0.291%
35	12.737	1802	1807	1813	rVB2	140769	238740	7.75%	0.634%
36	12.895	1826	1833	1841	rBV	187387	316411	10.27%	0.841%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

37	12.962	1841	1844	1851	rVV2	54361	79887	2.59%	0.212%
38	13.042	1852	1857	1862	rVV	372917	556027	18.04%	1.477%
39	13.090	1862	1865	1871	rVV6	20984	30981	1.01%	0.082%
40	13.170	1871	1878	1882	rVV6	31592	69636	2.26%	0.185%
41	13.237	1883	1889	1894	rVV2	93994	182528	5.92%	0.485%
42	13.292	1894	1898	1901	rVV3	58315	90986	2.95%	0.242%
43	13.346	1901	1907	1910	rVV	594453	951084	30.86%	2.527%
44	13.377	1910	1912	1917	rVB	318273	398892	12.94%	1.060%
45	13.517	1928	1935	1936	rBV	145577	212416	6.89%	0.564%
46	13.548	1936	1940	1943	rVV	537754	812656	26.36%	2.159%
47	13.584	1943	1946	1955	rVB3	546456	1001985	32.51%	2.662%
48	13.676	1955	1961	1965	rBV3	127760	205989	6.68%	0.547%
49	13.743	1965	1972	1977	rBV	158449	263646	8.55%	0.700%
50	13.804	1977	1982	1985	rBV	463429	763041	24.75%	2.027%
51	13.834	1985	1987	1992	rVB	577070	690541	22.40%	1.835%
52	13.889	1992	1996	2002	rVB	1302836	1968530	63.86%	5.230%
53	13.999	2008	2014	2019	rBV2	616054	961247	31.19%	2.554%
54	14.054	2019	2023	2024	rBV	66581	91067	2.95%	0.242%
55	14.133	2030	2036	2040	rBV	427529	682650	22.15%	1.814%
56	14.218	2040	2050	2052	rVV	1044629	1836865	59.59%	4.880%
57	14.255	2052	2056	2060	rVV	1692804	2426610	78.72%	6.447%
58	14.304	2060	2064	2067	rVV2	502680	751564	24.38%	1.997%
59	14.340	2067	2070	2074	rVV	322300	477387	15.49%	1.268%
60	14.401	2077	2080	2083	rVV	80987	109686	3.56%	0.291%
61	14.444	2083	2087	2089	rVV	205232	271017	8.79%	0.720%
62	14.480	2089	2093	2098	rVV	857944	1389999	45.09%	3.693%
63	14.529	2098	2101	2106	rVB	723602	966094	31.34%	2.567%
64	14.596	2106	2112	2118	rBV3	1452966	3082391	100.00%	8.189%
65	14.657	2118	2122	2128	rVB3	412368	734382	23.83%	1.951%
66	14.749	2133	2137	2142	rVB	161871	240219	7.79%	0.638%
67	14.858	2149	2155	2163	rBV2	299676	606012	19.66%	1.610%
68	14.962	2167	2172	2177	rVV4	173101	336637	10.92%	0.894%
69	15.011	2177	2180	2183	rVV2	69340	101403	3.29%	0.269%
70	15.053	2183	2187	2193	rVB4	158148	252102	8.18%	0.670%
71	15.145	2193	2202	2207	rBV2	572518	1282122	41.60%	3.406%
72	15.255	2215	2220	2225	rBV5	77705	163525	5.31%	0.434%
73	15.346	2230	2235	2241	rVB	616168	883536	28.66%	2.347%
74	15.450	2245	2252	2256	rBV5	61815	154945	5.03%	0.412%
75	15.858	2316	2319	2323	rVB4	40965	60043	1.95%	0.160%
76	15.913	2324	2328	2335	rVV5	75618	174816	5.67%	0.464%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Title : SW846 8260

77	15.986	2335	2340	2346	rVB7	78842	167004	5.42%	0.444%
78	16.053	2346	2351	2357	rVB3	78880	137995	4.48%	0.367%
79	16.181	2366	2372	2378	rVB	416372	774786	25.14%	2.058%
80	16.248	2378	2383	2389	rBV	234676	386642	12.54%	1.027%
81	16.370	2396	2403	2417	rVB	456840	1040176	33.75%	2.764%

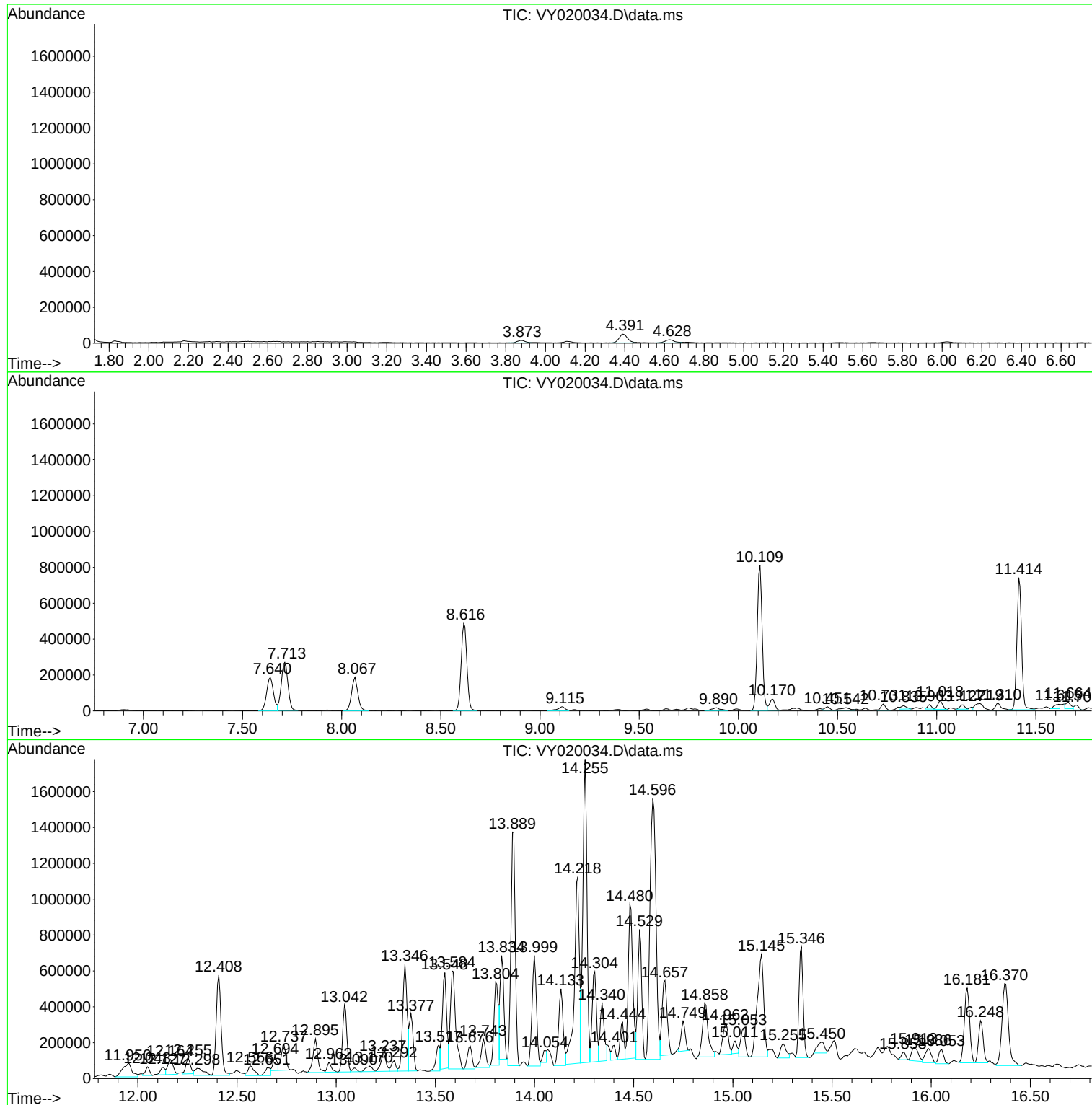
Sum of corrected areas: 37639074

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

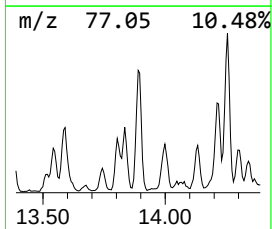
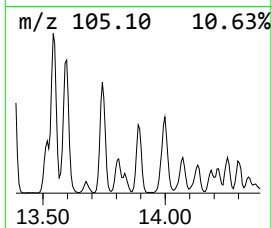
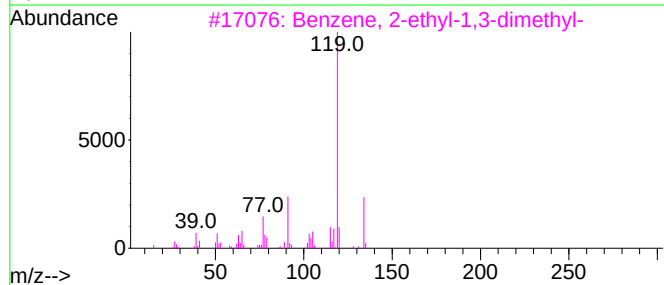
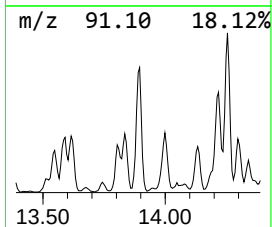
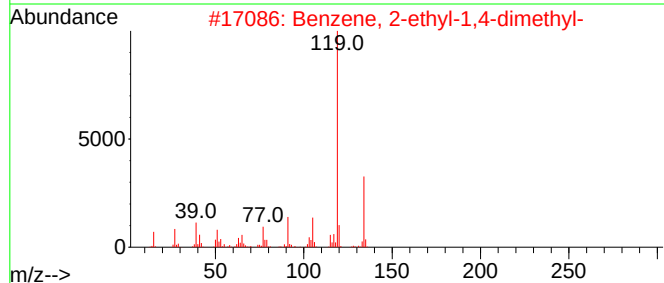
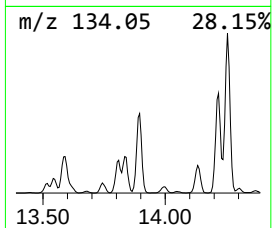
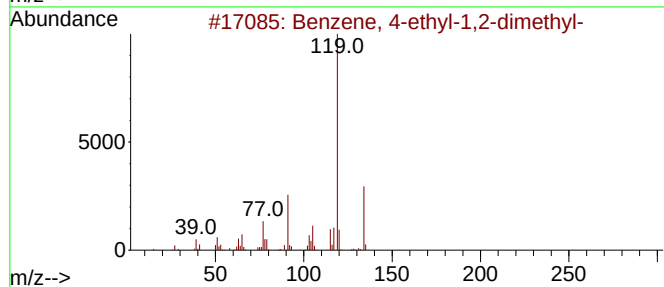
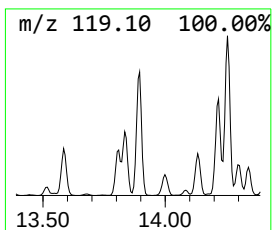
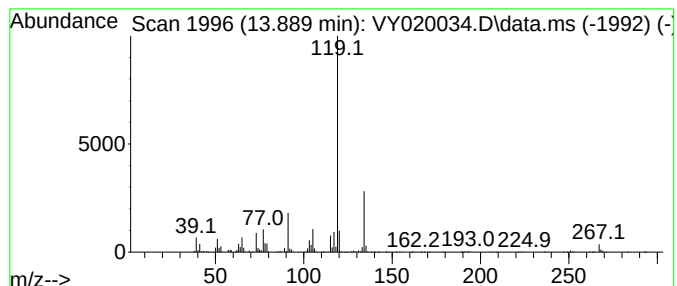
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Quant Title : SW846 8260

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

Peak Number 1 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	103.49 ug/l	1968530	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
2			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
3			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
4			o-Cymene	134	C10H14	000527-84-4	95
5			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

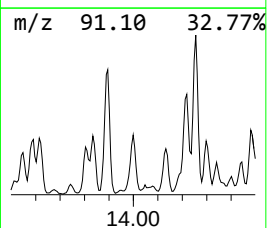
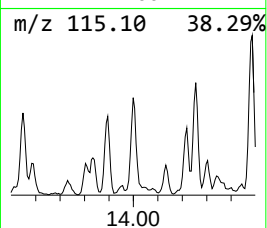
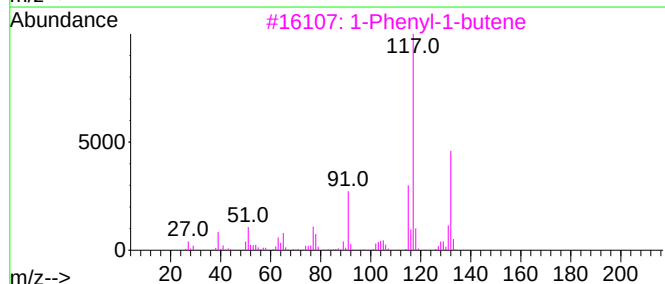
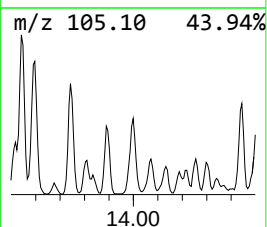
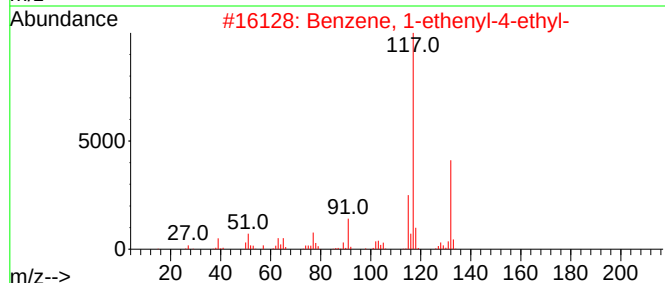
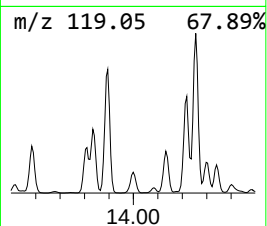
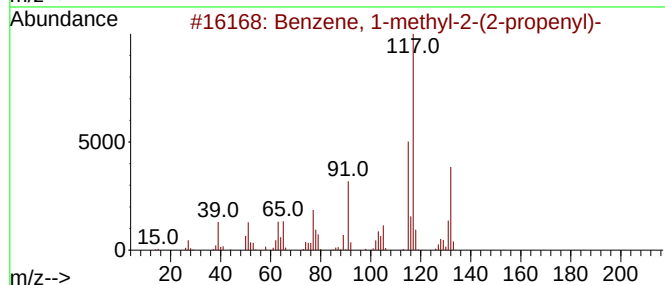
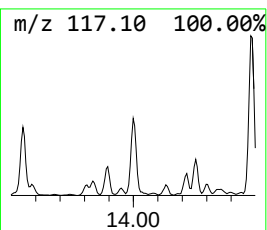
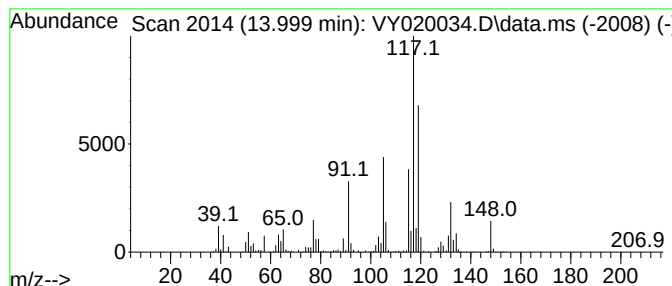
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Quant Title : SW846 8260

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

Peak Number 2 Benzene, 1-methyl-2-(2-prop... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.999	50.53 ug/l	961247	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	86
2			Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	70
3			1-Phenyl-1-butene	132	C10H12	000824-90-8	70
4			Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	70
5			3-Phenylbut-1-ene	132	C10H12	000934-10-1	70



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

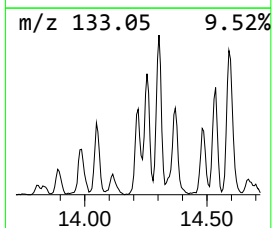
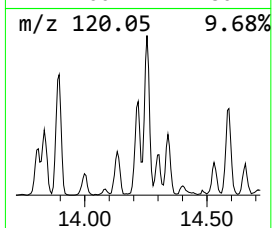
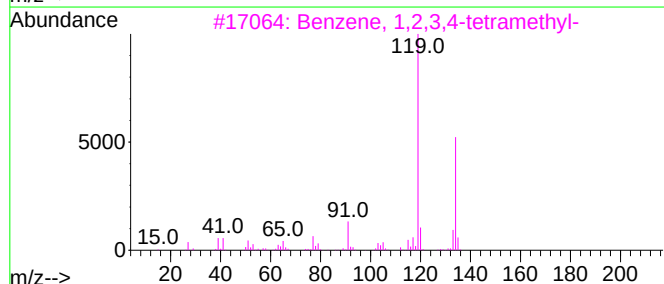
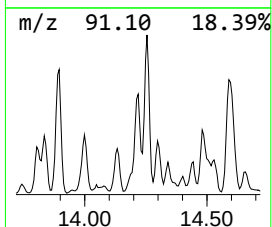
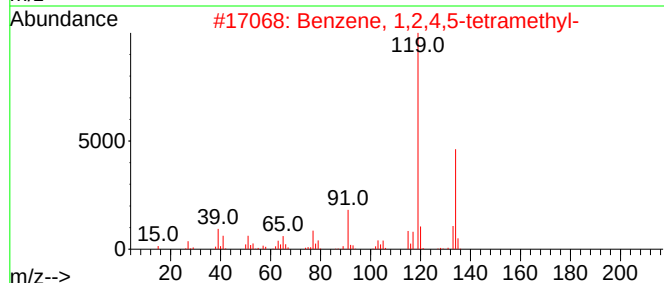
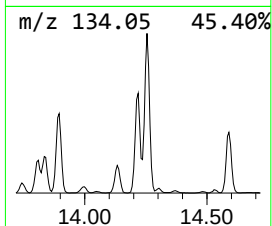
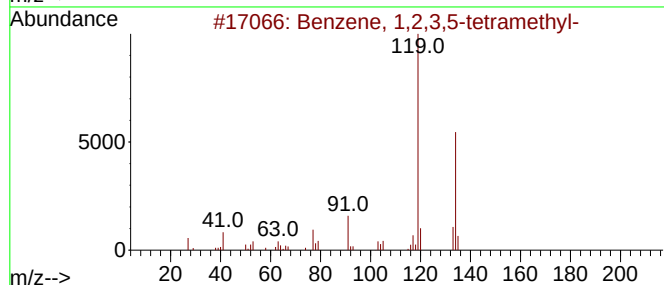
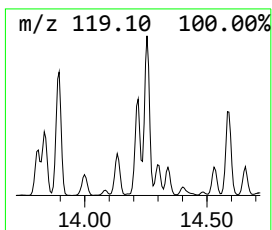
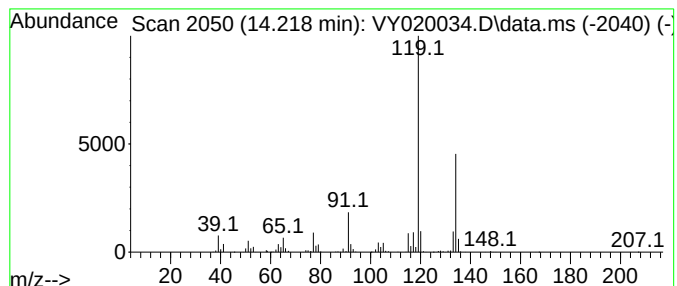
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Quant Title : SW846 8260

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

Peak Number 3 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.218	96.57 ug/l	1836870	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	97
2			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
3			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
4			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	93
5			o-Cymene	134	C10H14	000527-84-4	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

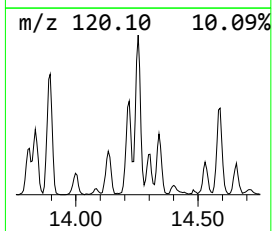
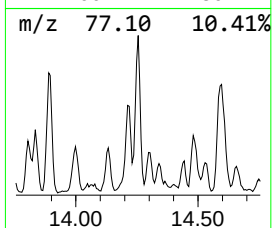
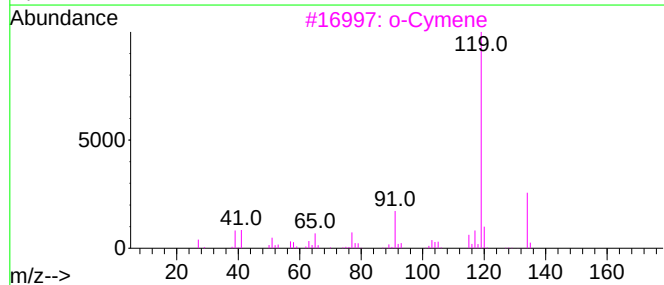
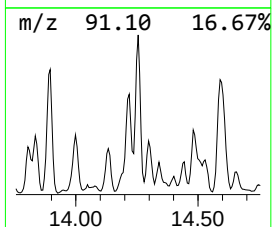
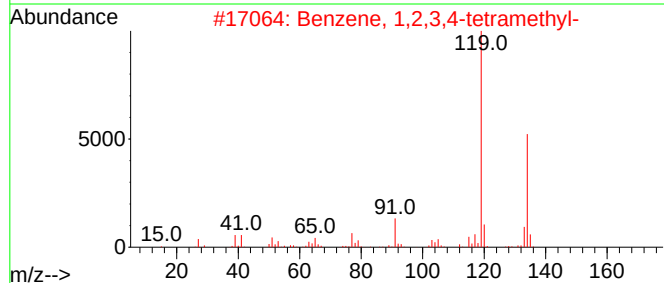
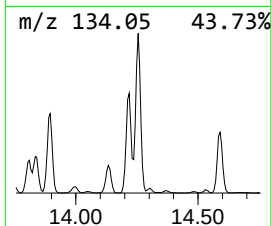
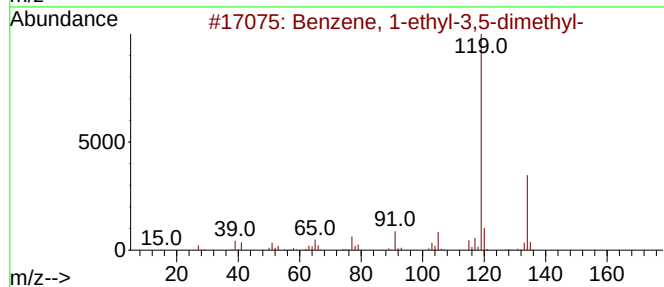
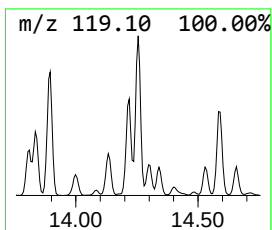
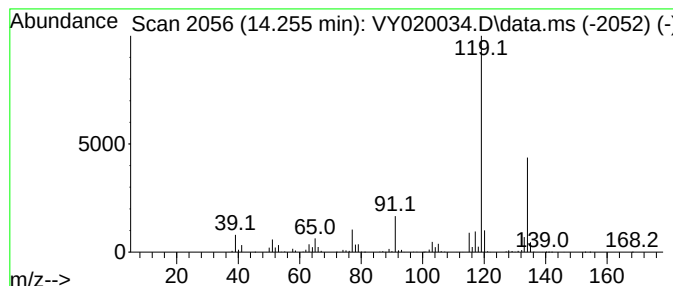
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Quant Title : SW846 8260

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

Peak Number 4 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.255	127.57 ug/l	2426610	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	95
2			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
3			o-Cymene	134	C10H14	000527-84-4	94
4			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94
5			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

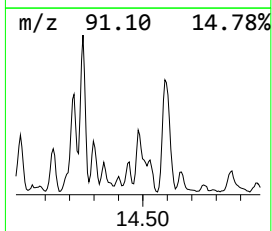
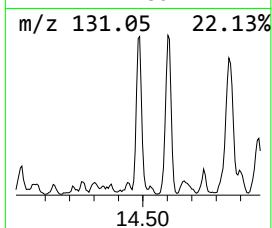
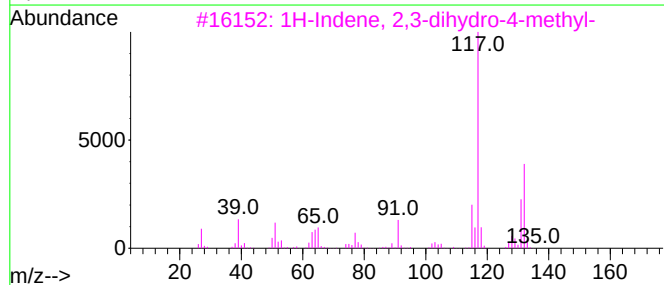
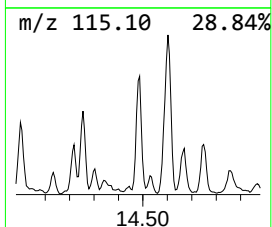
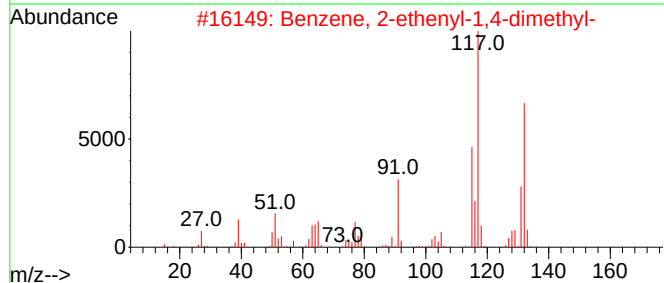
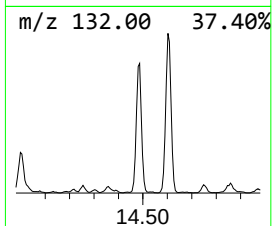
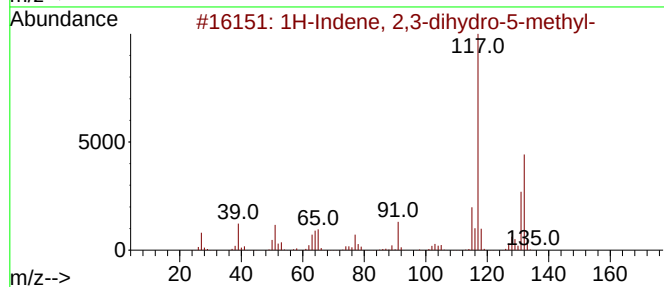
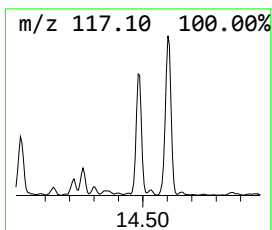
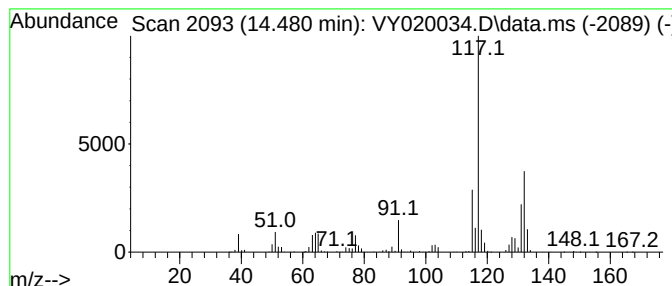
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Quant Title : SW846 8260

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

Peak Number 5 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.480	73.07 ug/l	1390000	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	95
2			Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
3			1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	94
4			Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	93
5			3-Phenylbut-1-ene	132	C10H12	000934-10-1	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

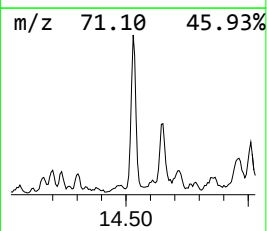
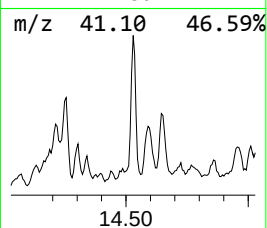
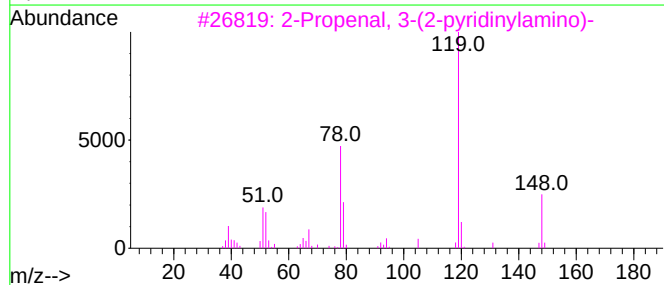
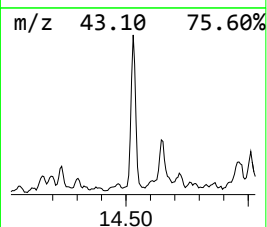
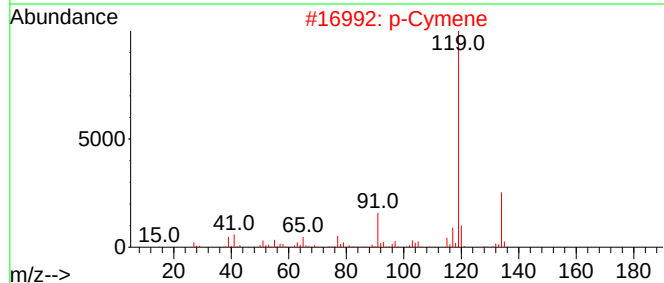
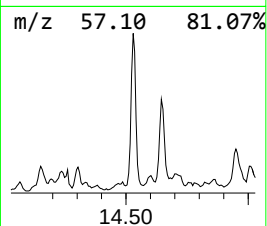
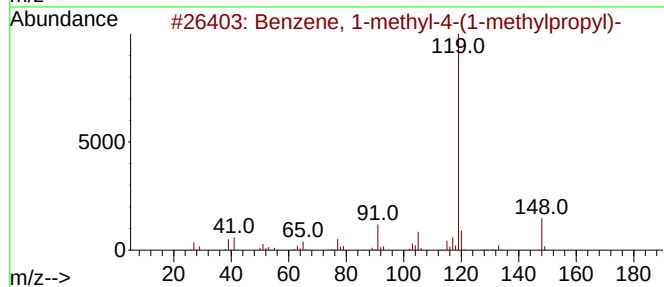
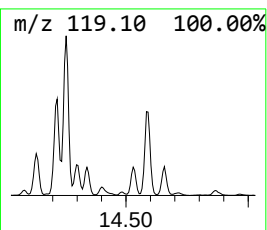
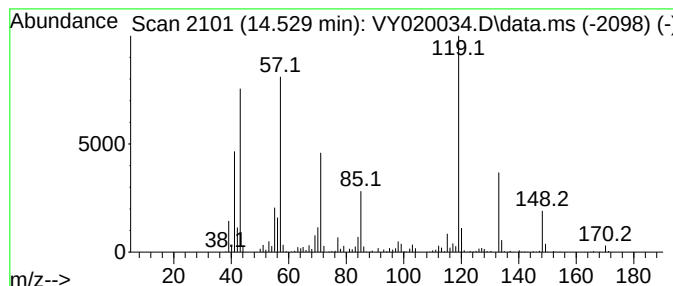
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Quant Title : SW846 8260

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

Peak Number 6 unknown14.529 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	50.79 ug/l	966094	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	43
2			p-Cymene	134	C10H14	000099-87-6	42
3			2-Propenal, 3-(2-pyridinylamino)-	148	C8H8N2O	068970-82-1	38
4			Dodecane	170	C12H26	000112-40-3	38
5			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	30



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

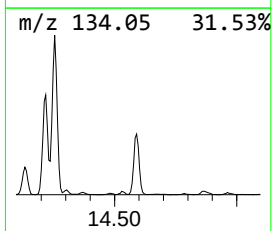
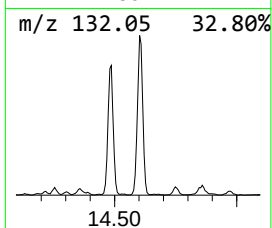
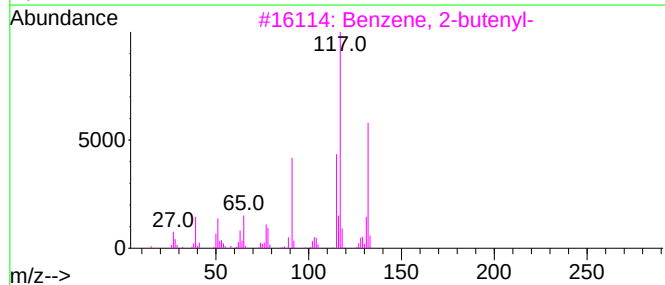
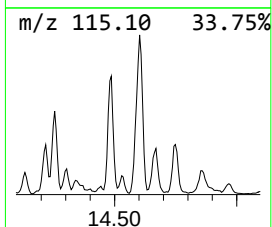
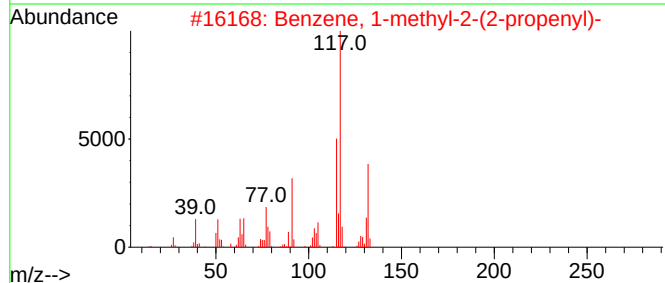
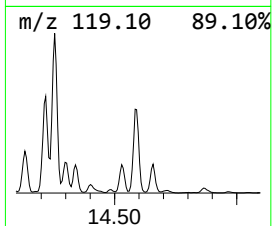
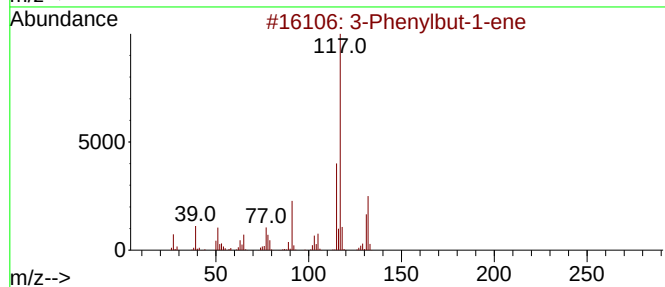
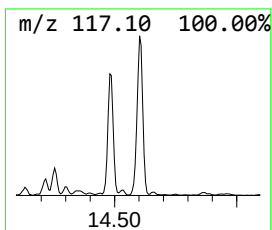
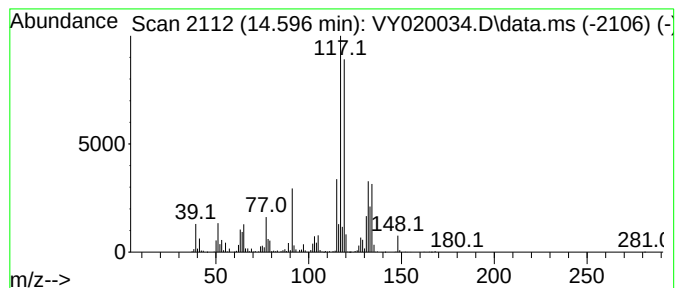
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Quant Title : SW846 8260

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

Peak Number 7 3-Phenylbut-1-ene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.596	162.05 ug/l	3082390	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3-Phenylbut-1-ene	132	C10H12	000934-10-1	87
2			Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	83
3			Benzene, 2-butenyl-	132	C10H12	001560-06-1	70
4			Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	55
5			Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	55



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

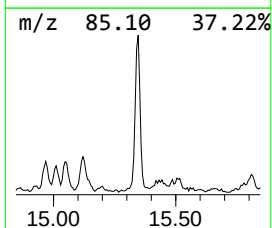
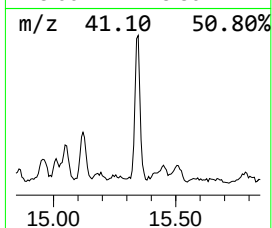
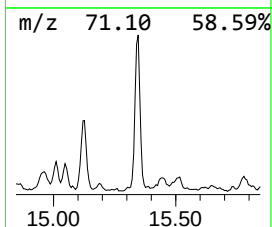
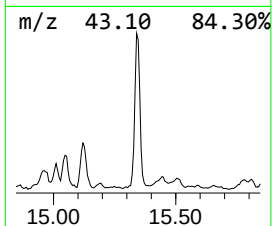
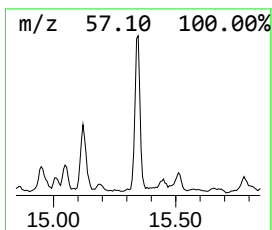
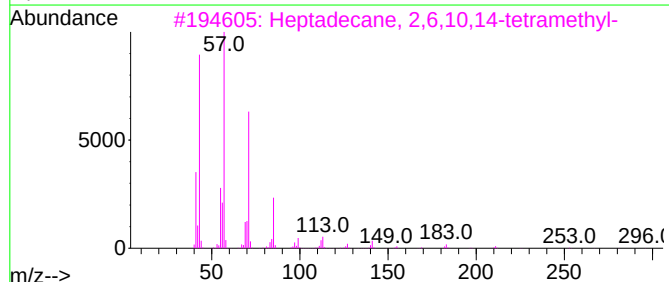
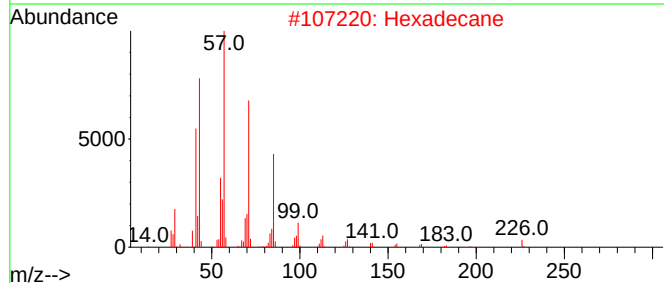
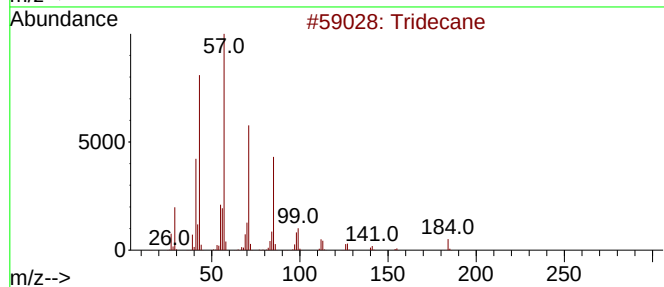
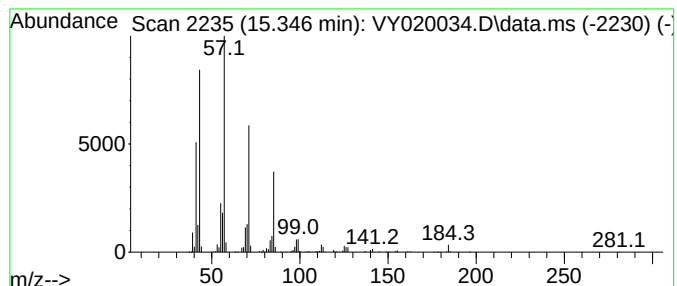
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 9 Tridecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	46.45 ug/l	883536	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Tridecane	184	C13H28	000629-50-5	95
2			Hexadecane	226	C16H34	000544-76-3	91
3			Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	86
4			Sulfurous acid, 2-ethylhexyl iso...	278	C14H30O3S	1000309-19-0	80
5			1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020034.D
Acq On : 28 Oct 2024 12:19
Operator : SY/MD
Sample : P4578-04
Misc : 7.19g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Benzene, 4-ethy...	13.889	103.5	ug/l	1968530	4	13.346	951084	50.0
Benzene, 1-meth...	13.999	50.5	ug/l	961247	4	13.346	951084	50.0
Benzene, 1,2,3,...	14.218	96.6	ug/l	1836870	4	13.346	951084	50.0
Benzene, 1-ethy...	14.255	127.6	ug/l	2426610	4	13.346	951084	50.0
1H-Indene, 2,3-...	14.480	73.1	ug/l	1390000	4	13.346	951084	50.0
unknown14.529	14.529	50.8	ug/l	966094	4	13.346	951084	50.0
3-Phenylbut-1-ene	14.596	162.1	ug/l	3082390	4	13.346	951084	50.0
Tridecane	15.346	46.5	ug/l	883536	4	13.346	951084	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.1
Sample Wt/Vol:	8.09 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
VY020062.D	1		10/29/24 15:36	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	3.80	ug/Kg
74-87-3	Chloromethane	0.87	U	0.87	3.80	ug/Kg
75-01-4	Vinyl Chloride	0.58	U	0.58	3.80	ug/Kg
74-83-9	Bromomethane	0.78	U	0.78	3.80	ug/Kg
75-00-3	Chloroethane	0.76	U	0.76	3.80	ug/Kg
75-69-4	Trichlorofluoromethane	0.69	U	0.69	3.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.81	U	0.81	3.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.59	U	0.59	3.80	ug/Kg
67-64-1	Acetone	4.70	U	4.70	18.8	ug/Kg
75-15-0	Carbon Disulfide	1.70	J	0.96	3.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.50	3.80	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	3.80	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.63	U	0.63	3.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.47	U	0.47	3.80	ug/Kg
110-82-7	Cyclohexane	0.52	U	0.52	3.80	ug/Kg
78-93-3	2-Butanone	4.30	U	4.30	18.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.65	U	0.65	3.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.46	U	0.46	3.80	ug/Kg
74-97-5	Bromochloromethane	1.80	U	1.80	3.80	ug/Kg
67-66-3	Chloroform	0.50	U	0.50	3.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.59	U	0.59	3.80	ug/Kg
108-87-2	Methylcyclohexane	0.65	U	0.65	3.80	ug/Kg
71-43-2	Benzene	0.54	U	0.54	3.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.46	U	0.46	3.80	ug/Kg
79-01-6	Trichloroethene	0.56	U	0.56	3.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.50	U	0.50	3.80	ug/Kg
75-27-4	Bromodichloromethane	0.42	U	0.42	3.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	18.8	ug/Kg
108-88-3	Toluene	0.50	U	0.50	3.80	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/25/24
Client Sample ID:	WB-305-BOT			SDG No.:	P4578
Lab Sample ID:	P4578-05			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	82.1
Sample Wt/Vol:	8.09	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
VY020062.D	1		10/29/24 15:36	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.45	U	0.45	3.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.43	U	0.43	3.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.63	U	0.63	3.80	ug/Kg
591-78-6	2-Hexanone	3.60	U	3.60	18.8	ug/Kg
124-48-1	Dibromochloromethane	0.49	U	0.49	3.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.59	U	0.59	3.80	ug/Kg
127-18-4	Tetrachloroethene	0.67	U	0.67	3.80	ug/Kg
108-90-7	Chlorobenzene	0.56	U	0.56	3.80	ug/Kg
100-41-4	Ethyl Benzene	0.47	U	0.47	3.80	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	7.50	ug/Kg
95-47-6	o-Xylene	0.53	U	0.53	3.80	ug/Kg
100-42-5	Styrene	0.45	U	0.45	3.80	ug/Kg
75-25-2	Bromoform	0.61	U	0.61	3.80	ug/Kg
98-82-8	Isopropylbenzene	0.50	U	0.50	3.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.83	U	0.83	3.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.56	U	0.56	3.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.60	U	0.60	3.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.44	U	0.44	3.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.20	U	1.20	3.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.59	U	0.59	3.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.59	U	0.59	3.80	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	58.5	70 (50) - 130 (163)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5	70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	51.0	70 (58) - 130 (134)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.8	70 (29) - 130 (146)	88%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	171000	7.713
540-36-3	1,4-Difluorobenzene	365000	8.615
3114-55-4	Chlorobenzene-d5	339000	11.413
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.1
Sample Wt/Vol:	8.09 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
VY020062.D	1		10/29/24 15:36	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	8.30	J		13.6	ug/Kg
000099-87-6	p-Cymene	7.20	J		13.8	ug/Kg
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	20.1	J		13.9	ug/Kg
062338-57-2	1,4-Cyclohexadiene, 3-ethenyl-1,2-	7.60	J		14.0	ug/Kg
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	17.3	J		14.2	ug/Kg
000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	23.7	J		14.3	ug/Kg
002050-24-0	Benzene, 1,3-diethyl-5-methyl-	8.20	J		14.3	ug/Kg
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	8.50	J		14.5	ug/Kg
000527-84-4	o-Cymene	6.70	J		14.5	ug/Kg
002214-14-4	Cyclopropane, 1-methyl-1-phenyl-	23.1	J		14.6	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\VY102924\
 Data File : VY020062.D
 Acq On : 29 Oct 2024 15:36
 Operator : SY/MD
 Sample : P4578-05
 Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-305-BOT

Quant Time: Oct 30 01:25:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

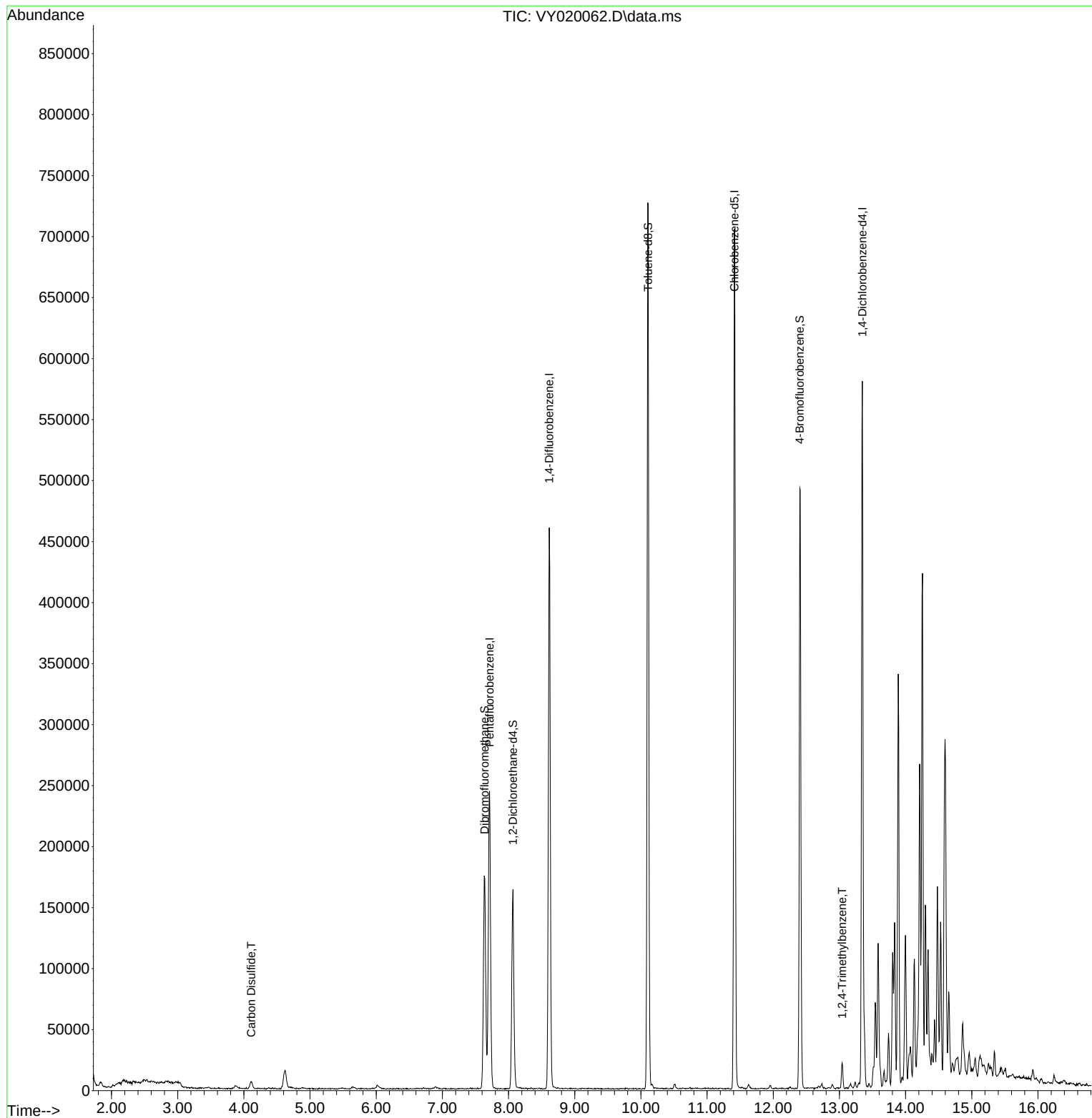
Internal Standards						
1) Pentafluorobenzene	7.713	168	171253	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	364648	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	339109	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	127440	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.066	65	123360	58.502	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	117.000%
35) Dibromofluoromethane	7.640	113	119069	49.483	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.960%
50) Toluene-d8	10.109	98	453335	51.017	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.040%
62) 4-Bromofluorobenzene	12.401	95	140581	43.784	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	87.560%
Target Compounds						
17) Carbon Disulfide	4.110	76	11166	2.267	ug/l	96
84) 1,2,4-Trimethylbenzene	13.041	105	10287	1.199	ug/l	96

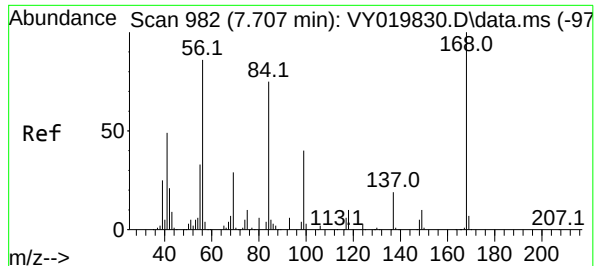
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Quant Time: Oct 30 01:25:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

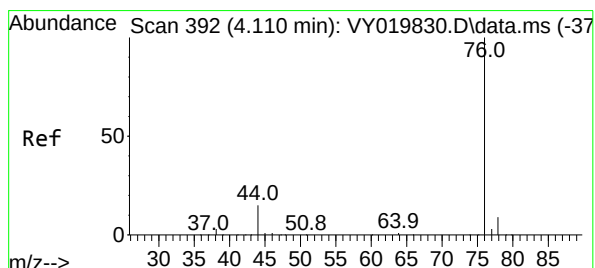
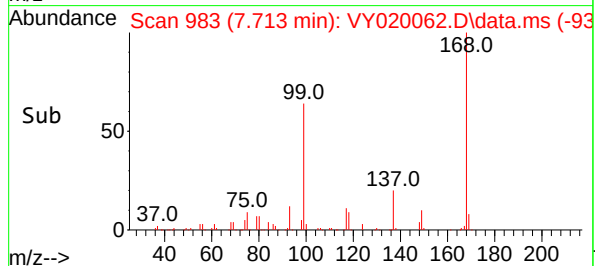
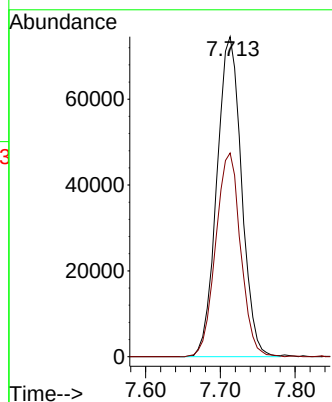
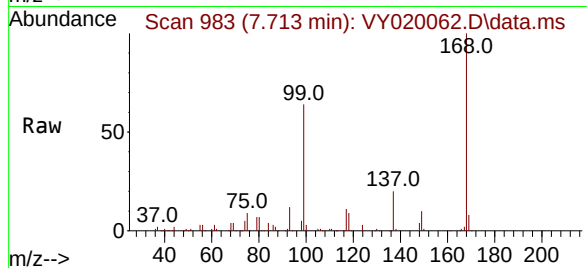




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

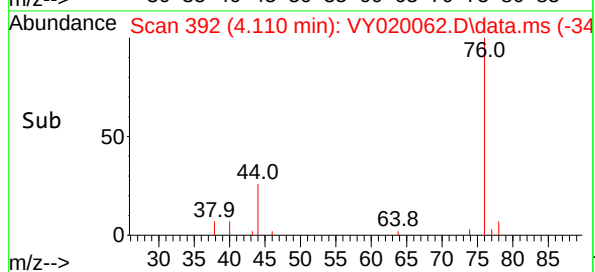
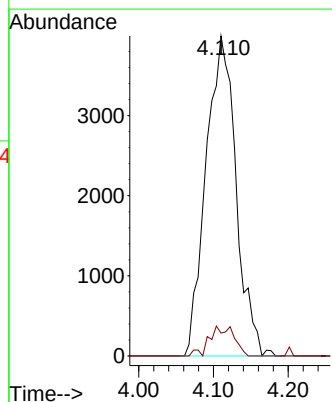
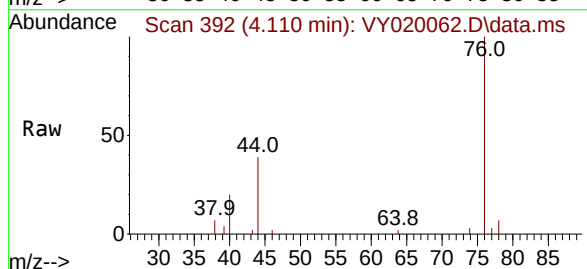
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

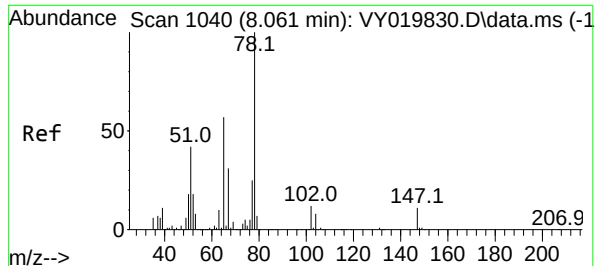
Tgt Ion:168 Resp: 171253
Ion Ratio Lower Upper
168 100
99 63.7 39.1 58.7#



#17
Carbon Disulfide
Concen: 2.267 ug/l
RT: 4.110 min Scan# 392
Delta R.T. 0.006 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Tgt Ion: 76 Resp: 11166
Ion Ratio Lower Upper
76 100
78 7.2 6.8 10.2





#33

1,2-Dichloroethane-d4

Concen: 58.502 ug/l

RT: 8.066 min Scan# 11041

Delta R.T. 0.006 min

Lab File: VY020062.D

Acq: 29 Oct 2024 15:36

Instrument :

MSVOA_Y

ClientSampleId :

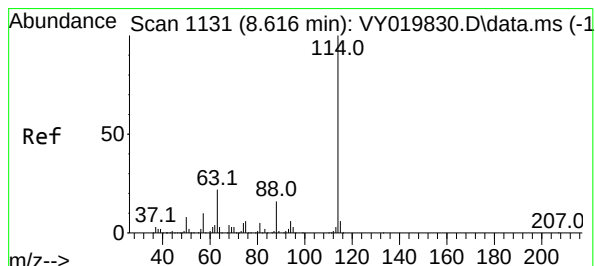
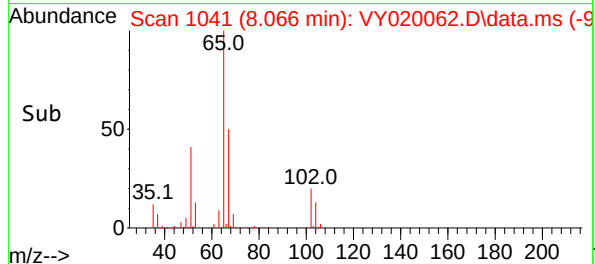
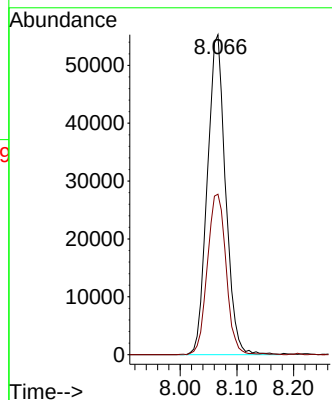
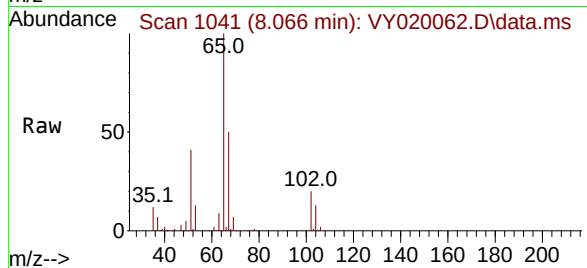
WB-305-BOT

Tgt Ion: 65 Resp: 123360

Ion Ratio Lower Upper

65 100

67 51.4 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY020062.D

Acq: 29 Oct 2024 15:36

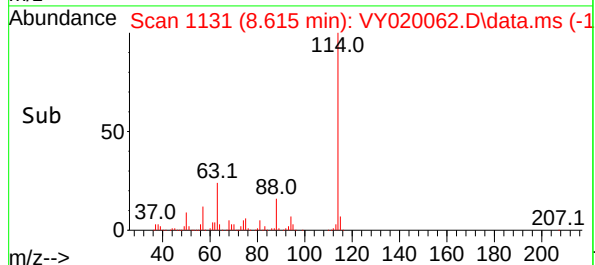
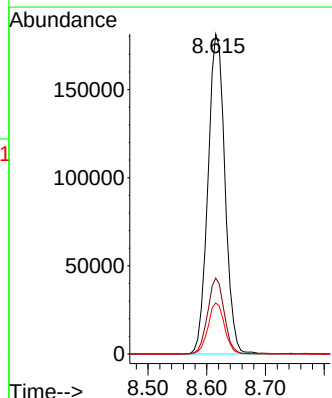
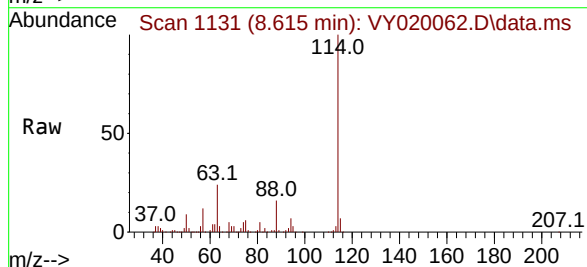
Tgt Ion: 114 Resp: 364648

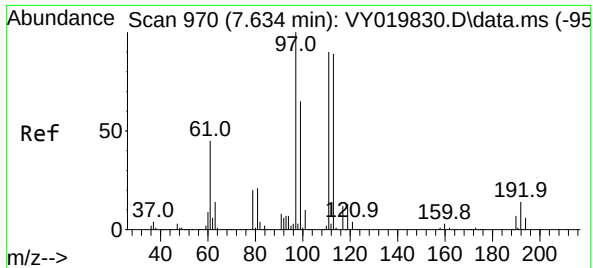
Ion Ratio Lower Upper

114 100

63 23.7 0.0 35.0

88 15.9 0.0 27.2





#35

Dibromofluoromethane

Concen: 49.483 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY020062.D

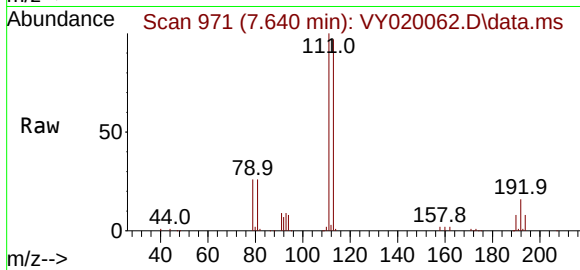
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Instrument :

MSVOA_Y

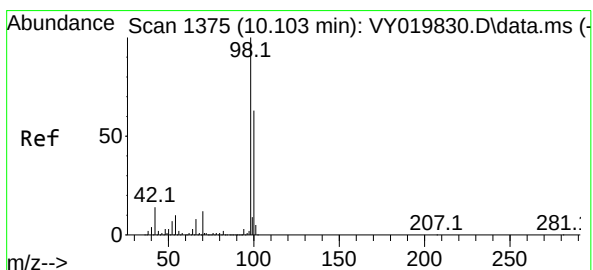
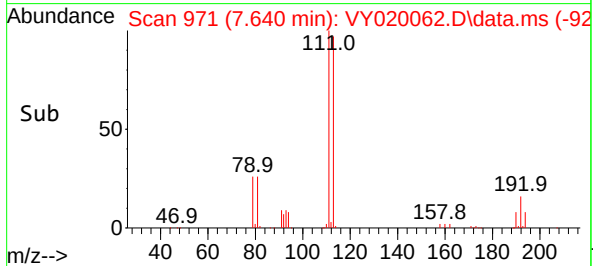
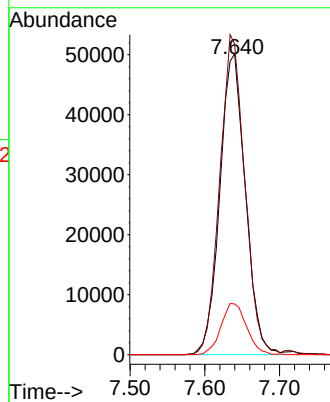
ClientSampleId :

WB-305-BOT



Tgt Ion:113 Resp: 119069

Ion	Ratio	Lower	Upper
113	100		
111	104.4	82.2	123.4
192	17.2	15.9	23.9



#50

Toluene-d8

Concen: 51.017 ug/l

RT: 10.109 min Scan# 1376

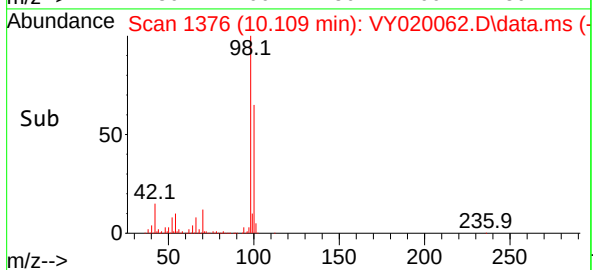
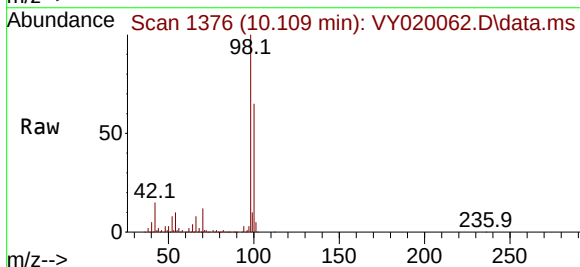
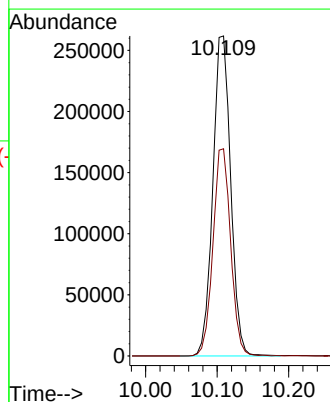
Delta R.T. -0.000 min

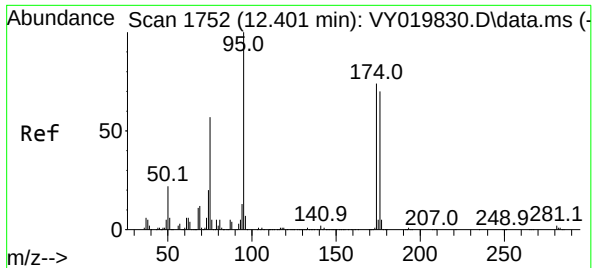
Lab File: VY020062.D

Acq: 29 Oct 2024 15:36

Tgt Ion: 98 Resp: 453335

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.0	78.0

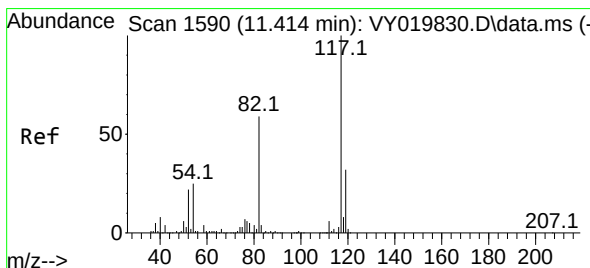
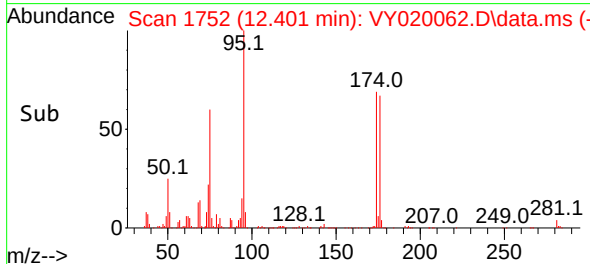
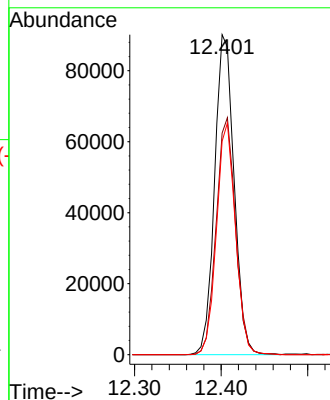
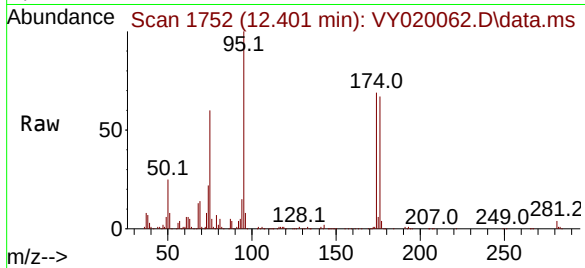




#62
4-Bromofluorobenzene
Concen: 43.784 ug/l
RT: 12.401 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

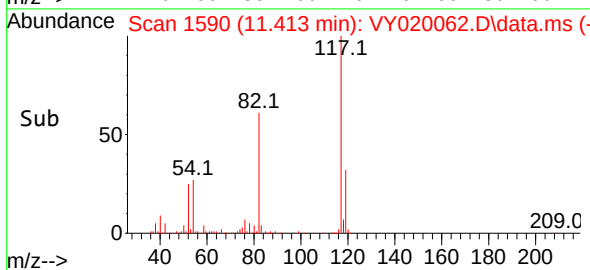
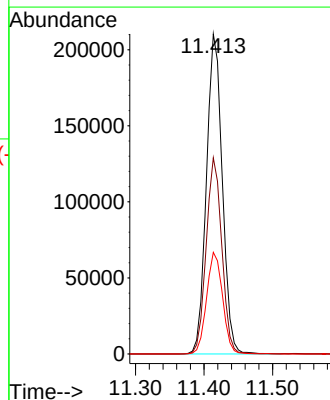
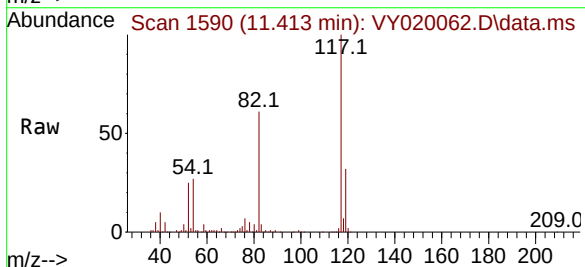
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

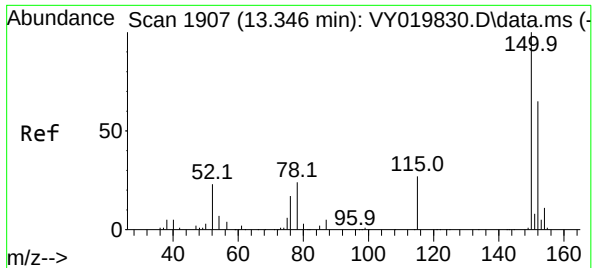
Tgt Ion: 95 Resp: 140581
Ion Ratio Lower Upper
95 100
174 73.9 0.0 175.6
176 70.5 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY020062.D
Acq: 29 Oct 2024 15:36

Tgt Ion: 117 Resp: 339109
Ion Ratio Lower Upper
117 100
82 61.3 42.4 63.6
119 31.8 25.9 38.9

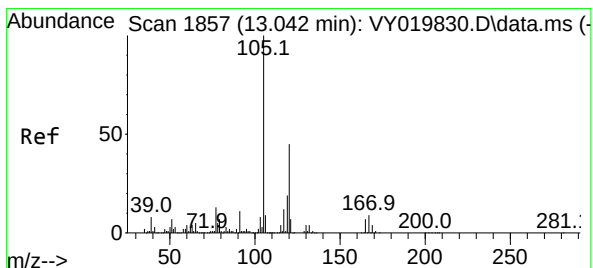
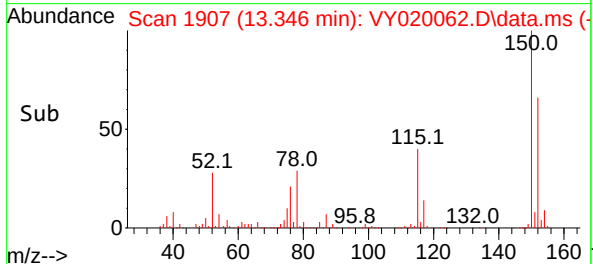
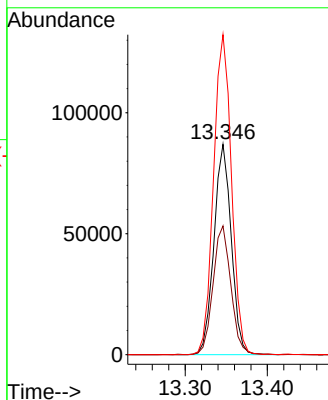
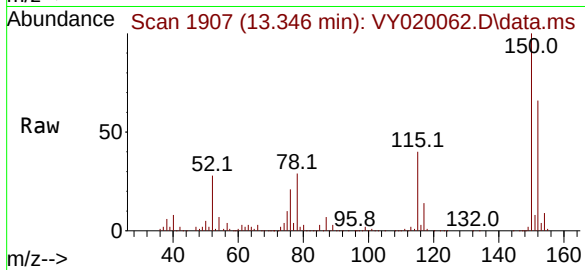




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VY020062.D
 Acq: 29 Oct 2024 15:36

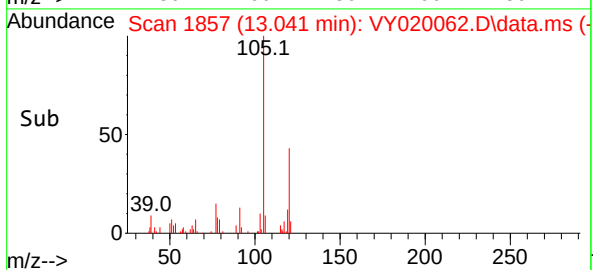
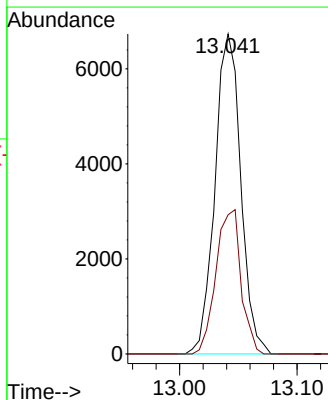
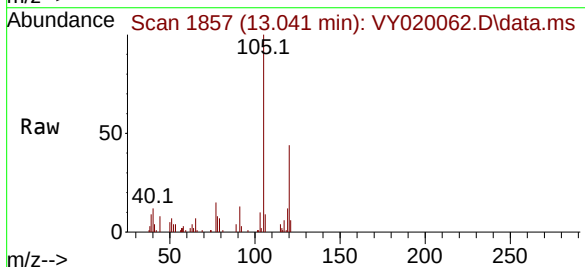
Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-305-BOT

Tgt Ion:152 Resp: 127440
 Ion Ratio Lower Upper
 152 100
 115 63.1 28.2 84.7
 150 157.2 0.0 345.6



#84
 1,2,4-Trimethylbenzene
 Concen: 1.199 ug/l
 RT: 13.041 min Scan# 1857
 Delta R.T. -0.006 min
 Lab File: VY020062.D
 Acq: 29 Oct 2024 15:36

Tgt Ion:105 Resp: 10287
 Ion Ratio Lower Upper
 105 100
 120 43.8 23.2 69.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
 Data File : VY020062.D
 Acq On : 29 Oct 2024 15:36
 Operator : SY/MD
 Sample : P4578-05
 Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-305-BOT

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\82Y100924S.M
 Title : SW846 8260

Signal : TIC: VY020062.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.110	383	392	401	rBV	6017	16420	1.30%	0.150%
2	4.622	464	476	485	rBV2	15562	51414	4.06%	0.469%
3	7.634	959	970	976	rBV	174433	408990	32.31%	3.730%
4	7.713	976	983	994	rVB	243381	570947	45.10%	5.207%
5	8.066	1032	1041	1056	rBV	163398	359316	28.39%	3.277%
6	8.615	1121	1131	1141	rBV	459907	913626	72.17%	8.332%
7	10.103	1367	1375	1383	rBV	726501	1265857	100.00%	11.545%
8	11.413	1582	1590	1602	rBV	704990	1147760	90.67%	10.468%
9	12.401	1745	1752	1763	rBV2	492186	828906	65.48%	7.560%
10	13.041	1852	1857	1864	rVB2	21157	33910	2.68%	0.309%
11	13.346	1900	1907	1918	rVB	578277	952557	75.25%	8.687%
12	13.541	1935	1939	1942	rBV2	52910	67909	5.36%	0.619%
13	13.584	1942	1946	1955	rVB2	117371	208712	16.49%	1.903%
14	13.675	1955	1961	1965	rBV6	12976	21320	1.68%	0.194%
15	13.742	1967	1972	1977	rVB	42318	62855	4.97%	0.573%
16	13.803	1977	1982	1984	rBV	108302	155720	12.30%	1.420%
17	13.834	1984	1987	1991	rVV	128907	183395	14.49%	1.673%
18	13.889	1991	1996	2002	rVB2	334967	508413	40.16%	4.637%
19	13.998	2008	2014	2019	rBV2	118706	191933	15.16%	1.750%
20	14.072	2019	2026	2031	rBV4	26497	65543	5.18%	0.598%
21	14.132	2031	2036	2040	rVV	96245	146658	11.59%	1.338%
22	14.212	2040	2049	2052	rVV	254407	436821	34.51%	3.984%
23	14.254	2052	2056	2060	rVV	409198	599032	47.32%	5.463%
24	14.297	2060	2063	2067	rVV2	136444	207593	16.40%	1.893%
25	14.340	2067	2070	2077	rVV	98620	144910	11.45%	1.322%
26	14.395	2077	2079	2083	rVV2	11929	17518	1.38%	0.160%
27	14.437	2083	2086	2089	rVV	39219	47998	3.79%	0.438%
28	14.480	2089	2093	2097	rVV	147482	214152	16.92%	1.953%
29	14.529	2097	2101	2106	rVB	121193	169473	13.39%	1.546%
30	14.596	2106	2112	2118	rBV2	270823	584351	46.16%	5.329%
31	14.651	2118	2121	2127	rVB	65739	102440	8.09%	0.934%
32	14.767	2135	2140	2141	rBV5	8712	13684	1.08%	0.125%
33	14.864	2150	2156	2166	rVB2	41558	90485	7.15%	0.825%
34	14.962	2166	2172	2177	rBV5	18017	35005	2.77%	0.319%
35	15.053	2181	2187	2192	rVB6	15102	32331	2.55%	0.295%
36	15.126	2192	2199	2200	rBV5	17393	32008	2.53%	0.292%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

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\82Y100924S.M
Title : SW846 8260

37	15.254	2215	2220	2223	rBV6	8779	15607	1.23%	0.142%
38	15.340	2230	2234	2240	rVB3	20479	29942	2.37%	0.273%
39	15.925	2325	2330	2335	rBV7	8675	15905	1.26%	0.145%
40	16.242	2378	2382	2389	rBV8	7232	13313	1.05%	0.121%

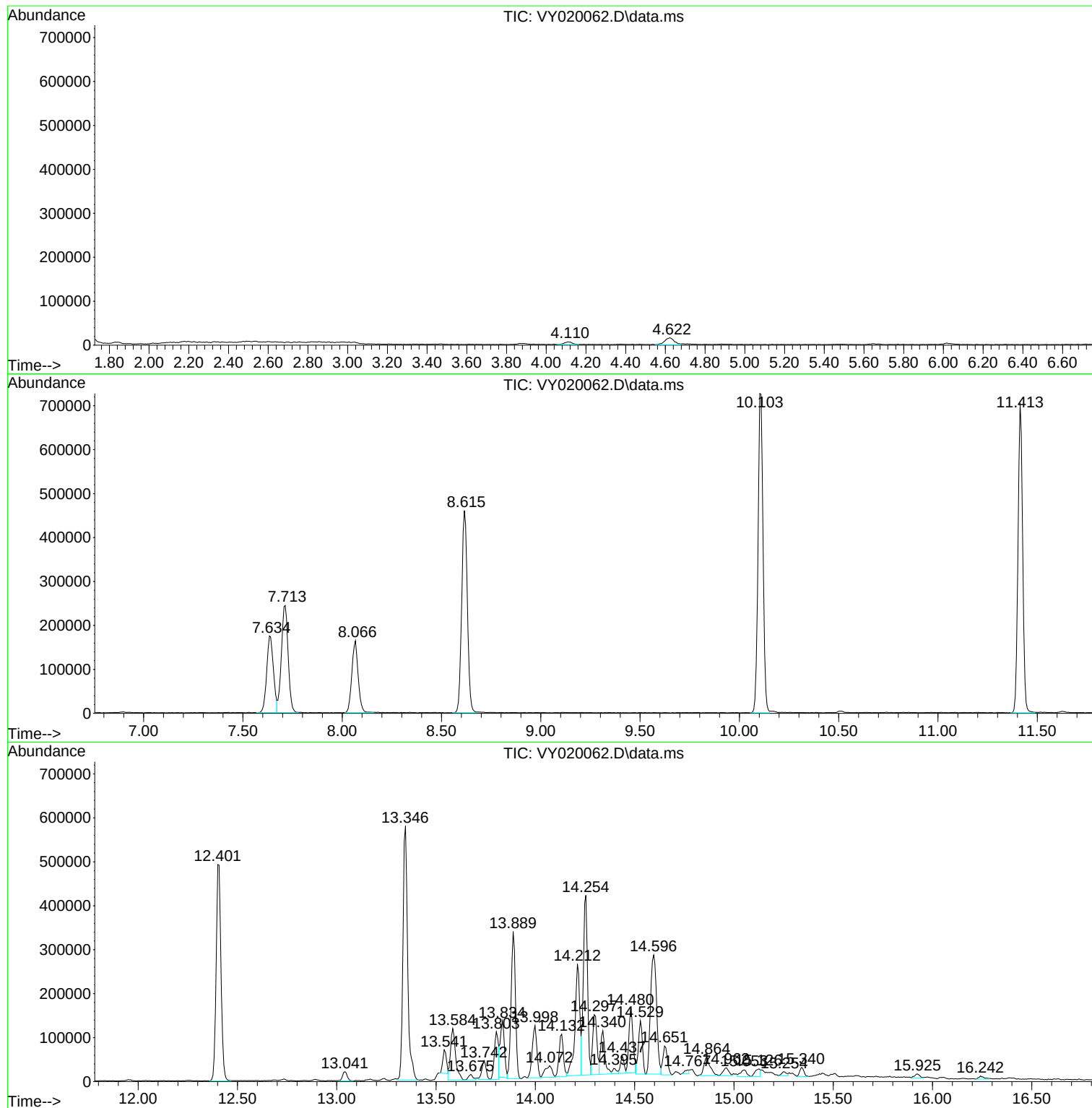
Sum of corrected areas: 10964729

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

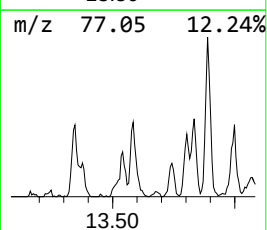
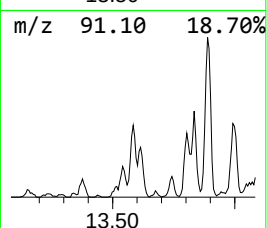
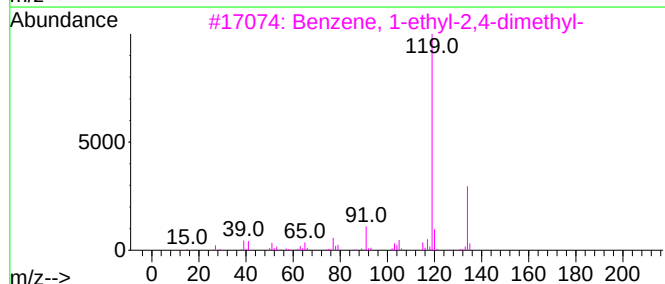
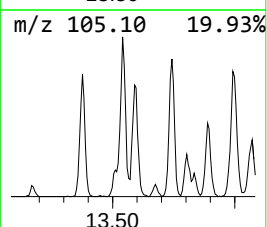
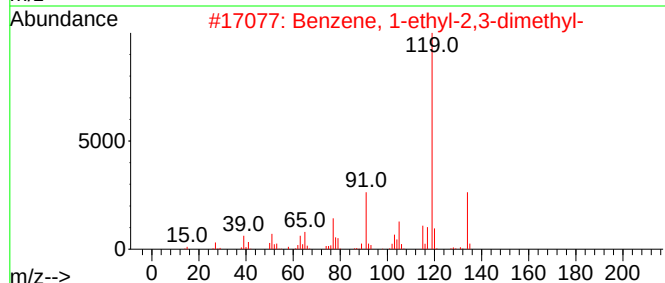
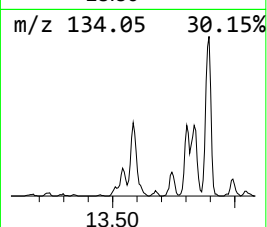
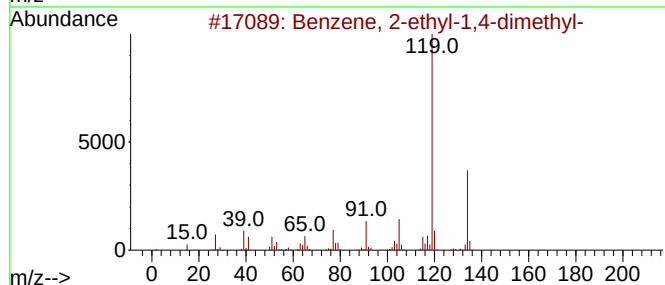
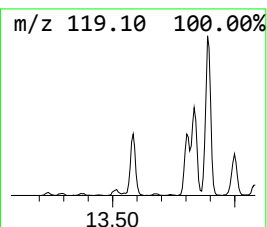
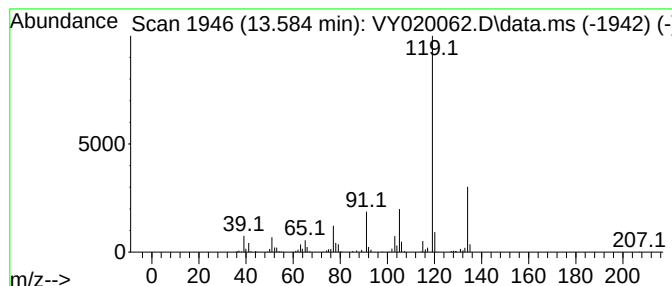
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 1 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.584	10.96 ug/l	208712	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91
2			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	83
3			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	83
4			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	83
5			o-Cymene	134	C10H14	000527-84-4	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

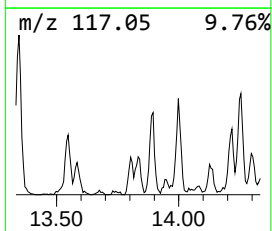
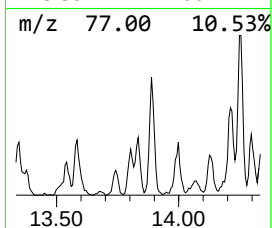
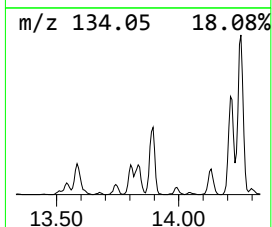
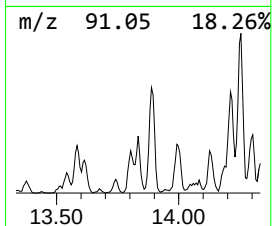
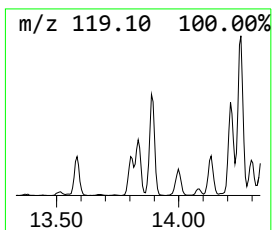
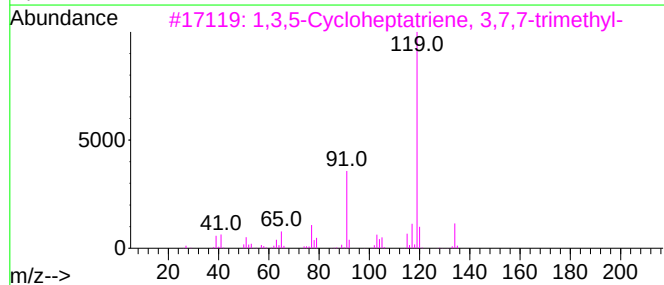
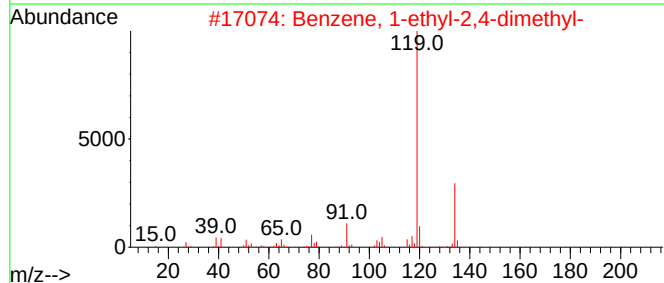
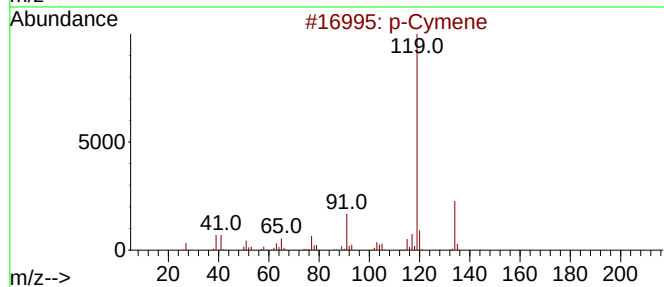
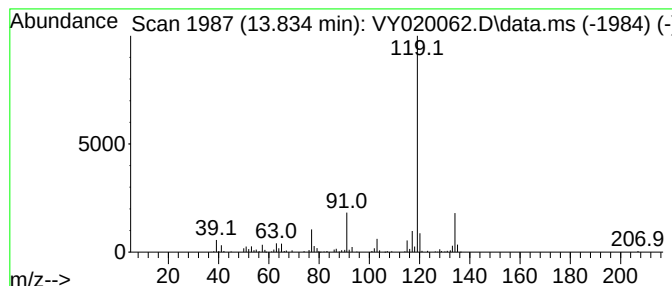
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 2 p-Cymene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.834	9.63 ug/l	183395	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			p-Cymene	134	C10H14	000099-87-6	91
2			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91
3			1,3,5-Cycloheptatriene, 3,7,7-tr...	134	C10H14	003479-89-8	91
4			o-Cymene	134	C10H14	000527-84-4	91
5			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

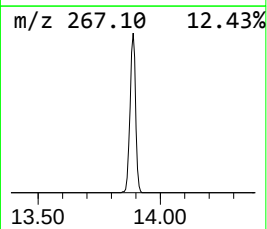
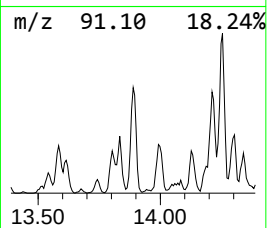
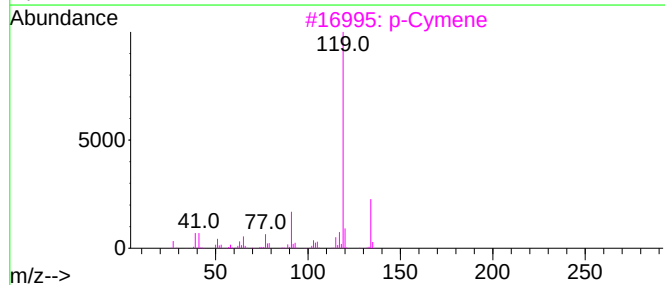
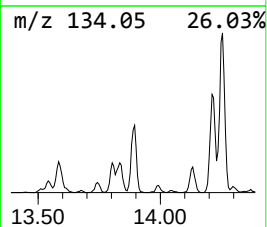
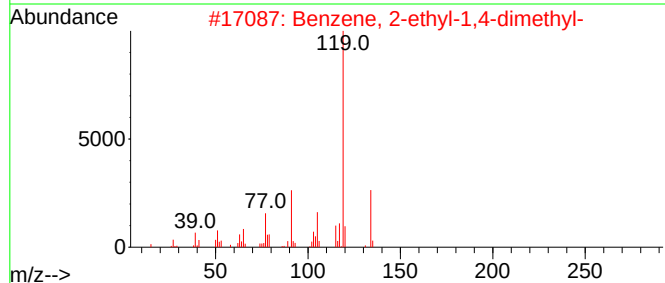
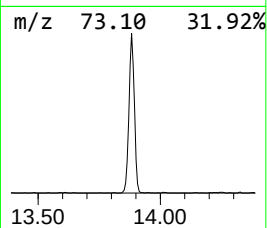
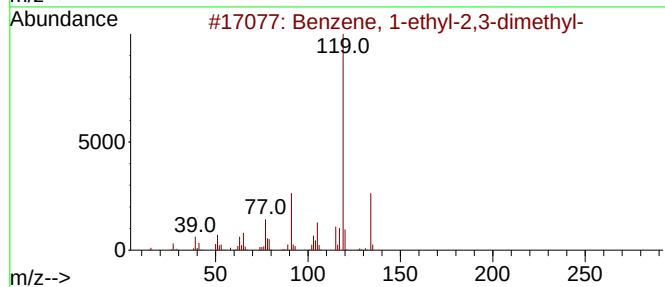
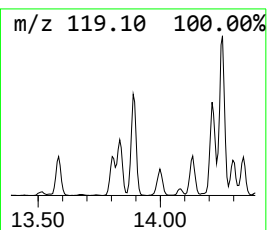
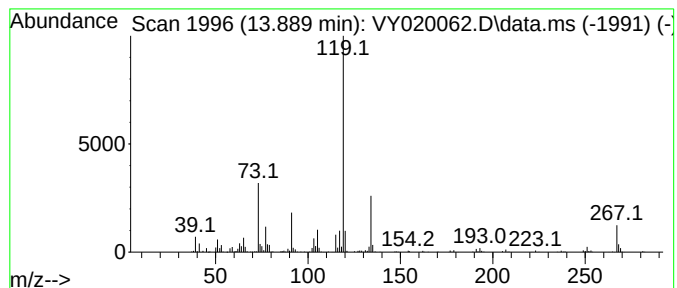
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 3 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	26.69 ug/l	508413	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
2			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
3			p-Cymene	134	C10H14	000099-87-6	95
4			o-Cymene	134	C10H14	000527-84-4	95
5			Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

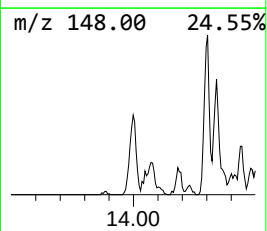
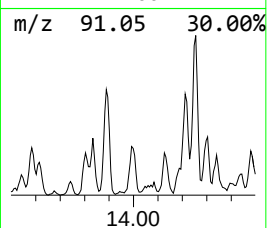
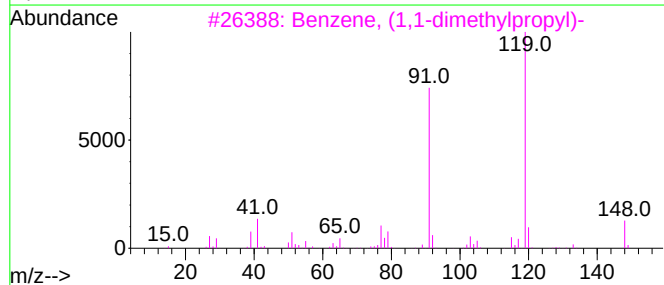
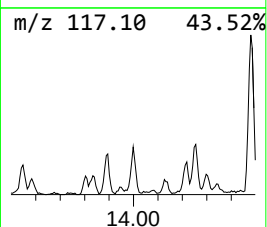
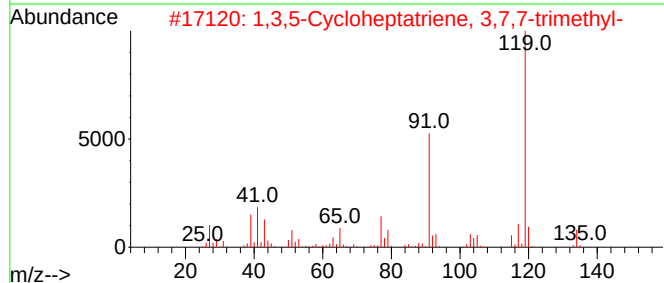
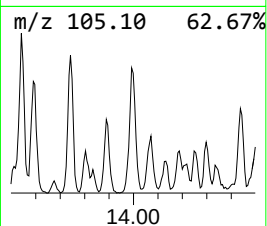
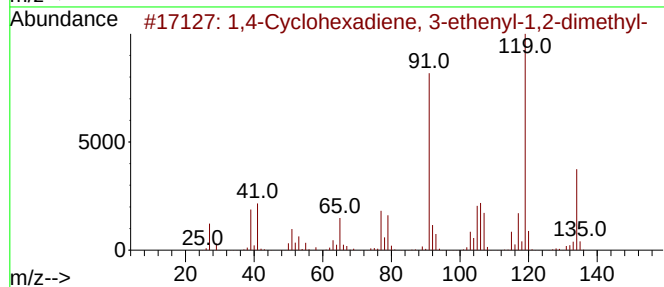
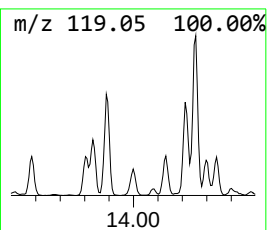
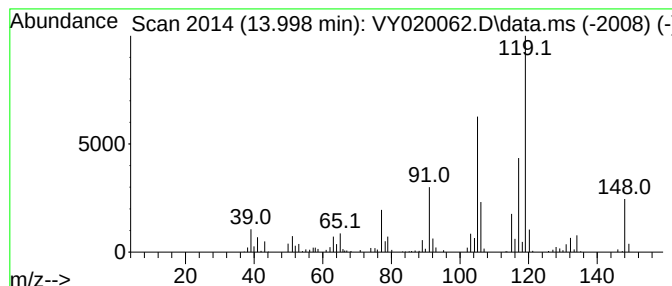
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Quant Title : SW846 8260

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

Peak Number 4 1,4-Cyclohexadiene, 3-ethen... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.998	10.07 ug/l	191933	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1,4-Cyclohexadiene, 3-ethenyl-1,...	134	C10H14	062338-57-2	53
2			1,3,5-Cycloheptatriene, 3,7,7-tr...	134	C10H14	003479-89-8	49
3			Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	49
4			4'-Methylpropiophenone	148	C10H12O	005337-93-9	43
5			Cumene hydroperoxide, TMS deriva...	224	C12H20O2Si	018057-16-4	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

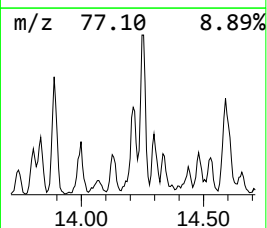
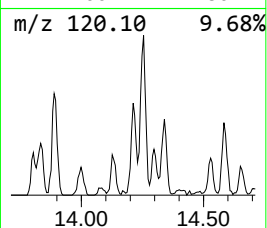
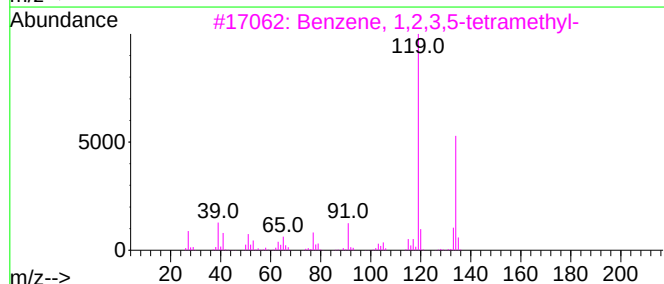
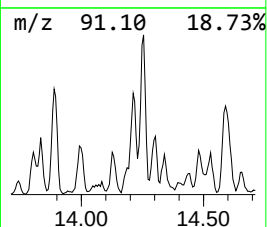
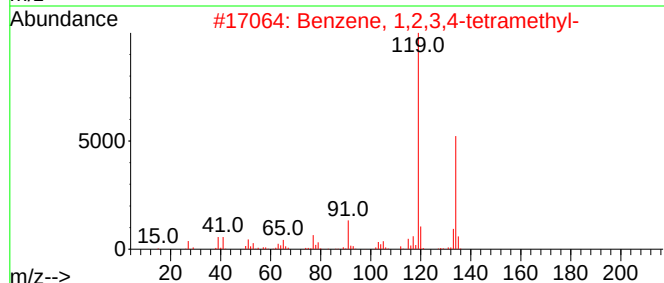
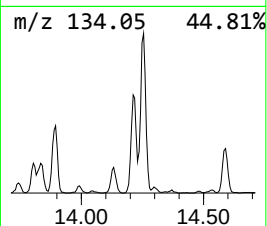
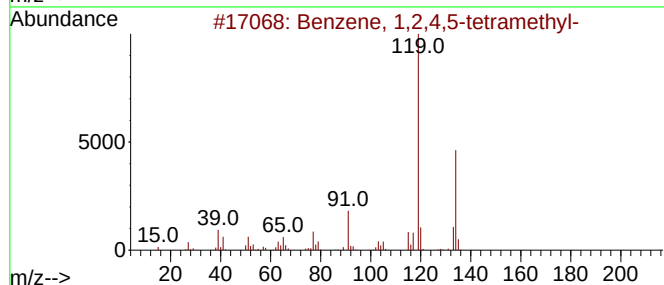
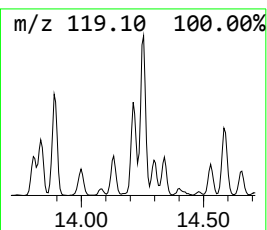
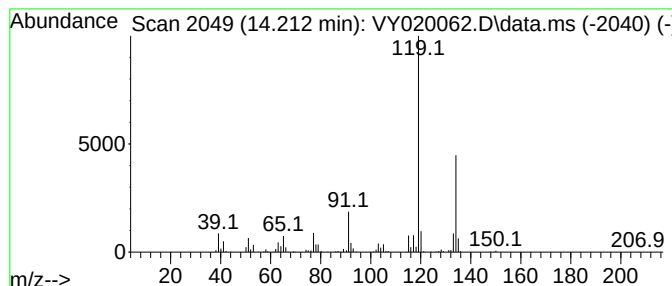
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Quant Title : SW846 8260

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

Peak Number 5 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.212	22.93 ug/l	436821	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
2			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
3			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
4			o-Cymene	134	C10H14	000527-84-4	94
5			Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

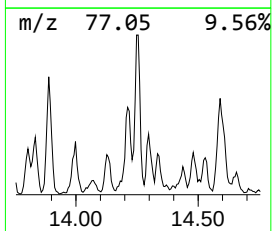
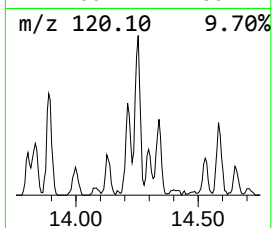
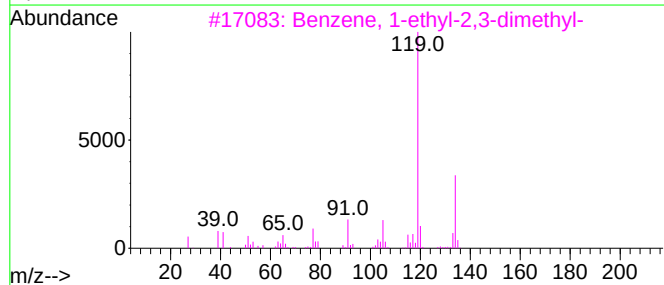
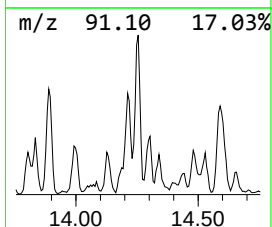
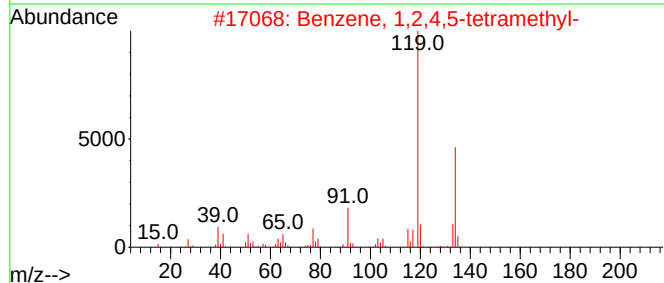
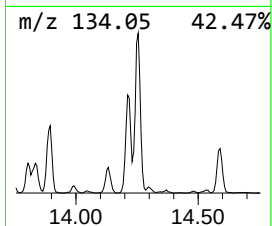
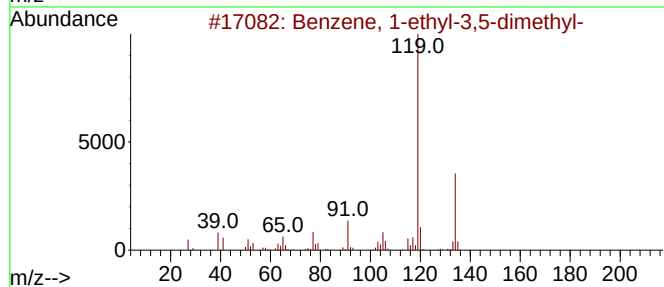
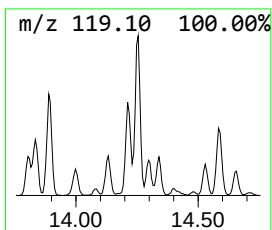
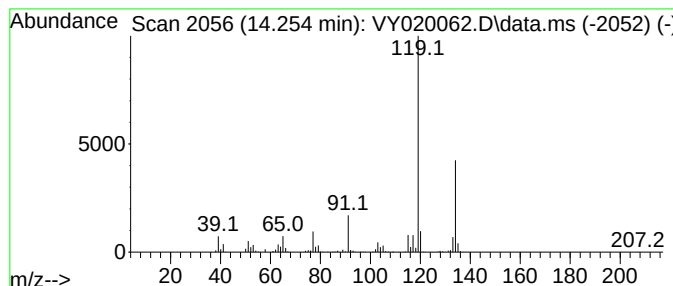
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Quant Title : SW846 8260

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

Peak Number 6 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.254	31.44 ug/l	599032	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	94
2			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	93
3			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
4			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91
5			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

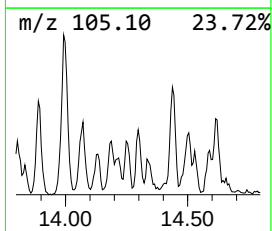
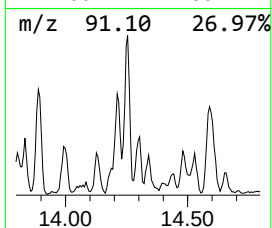
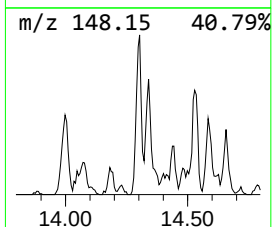
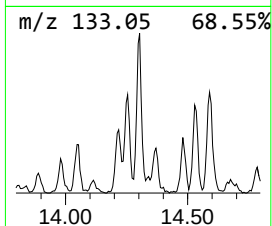
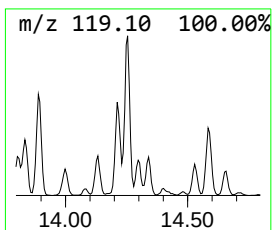
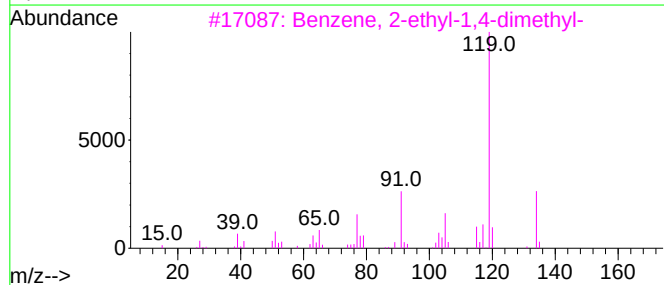
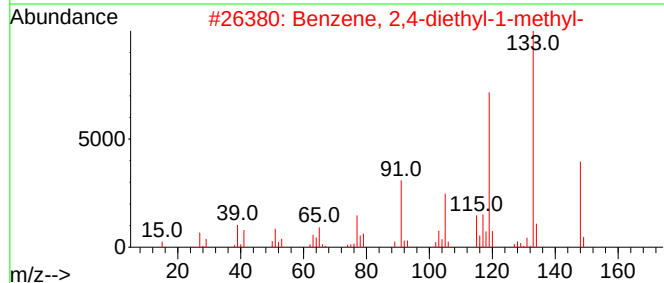
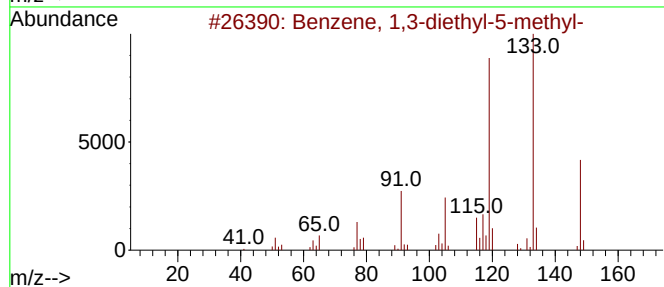
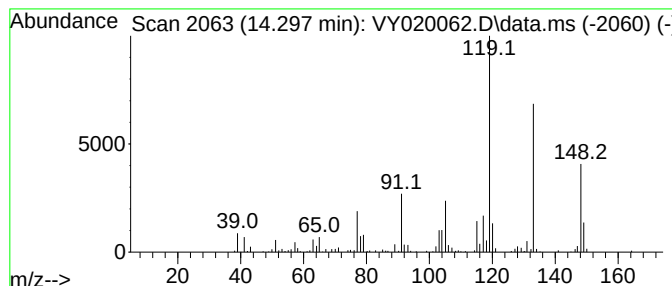
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 7 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.297	10.90 ug/l	207593	1,4-Dichlorobenzene-d4	13.346	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	89
2	Benzene, 2,4-diethyl-1-methyl-	148	C11H16	001758-85-6	64
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	49
4	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	49
5	Propiophenone, 2'-methyl-	148	C10H12O	002040-14-4	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

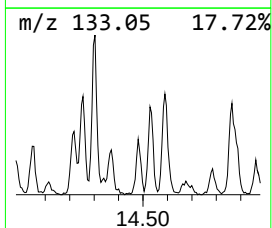
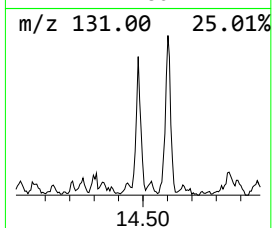
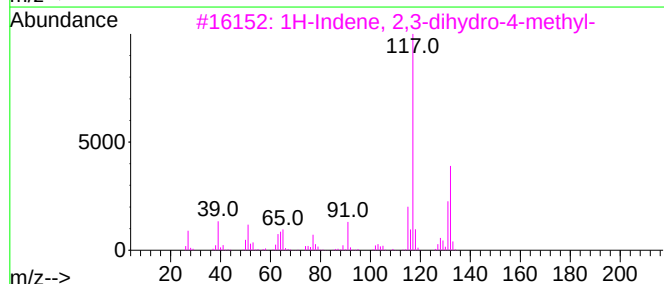
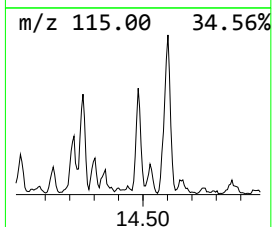
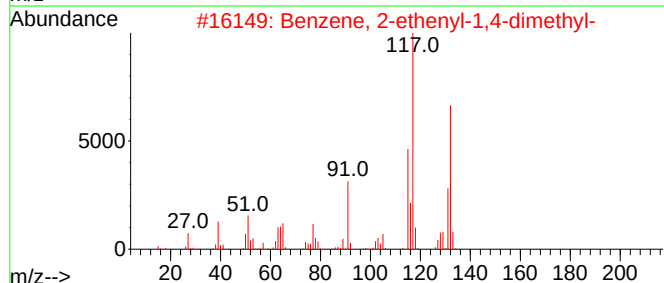
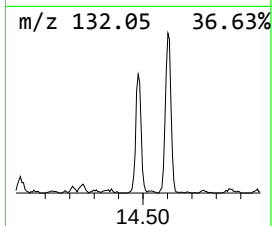
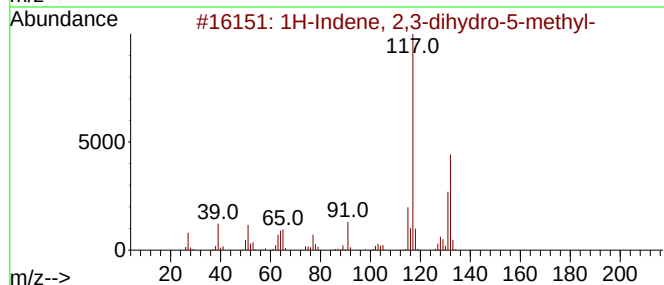
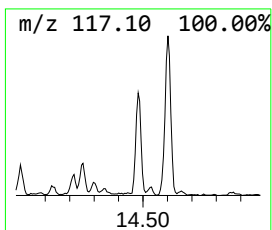
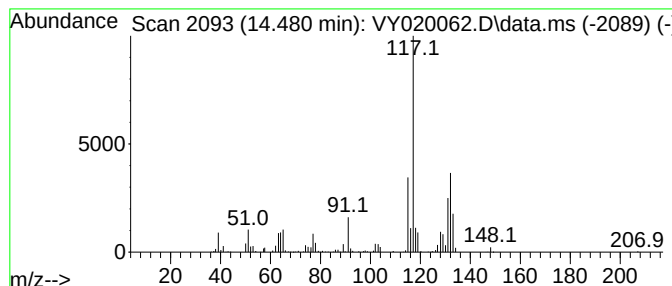
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Quant Title : SW846 8260

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

Peak Number 8 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.480	11.24 ug/l	214152	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	95
2			Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90
3			1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	81
4			Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	76
5			Cyclopropane, 1-methyl-1-phenyl-	132	C10H12	002214-14-4	74



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

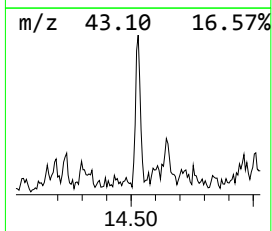
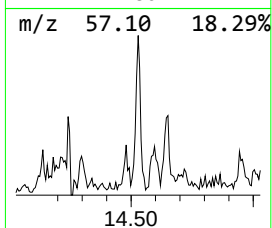
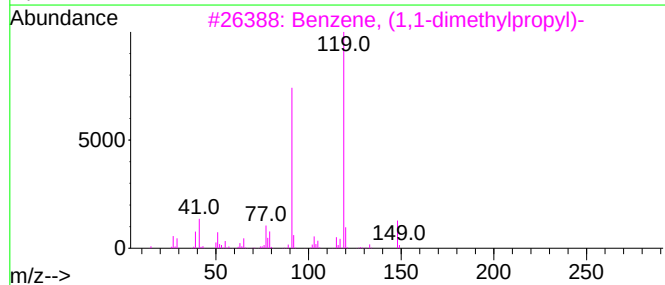
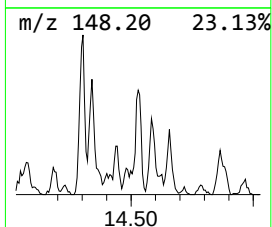
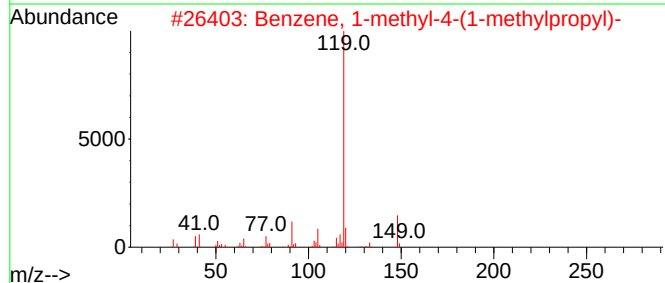
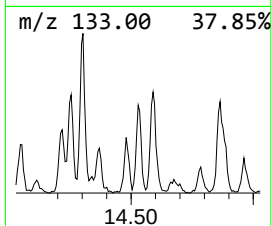
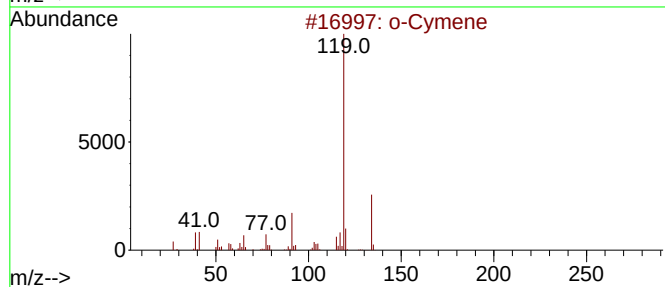
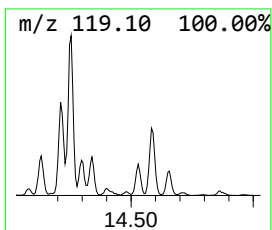
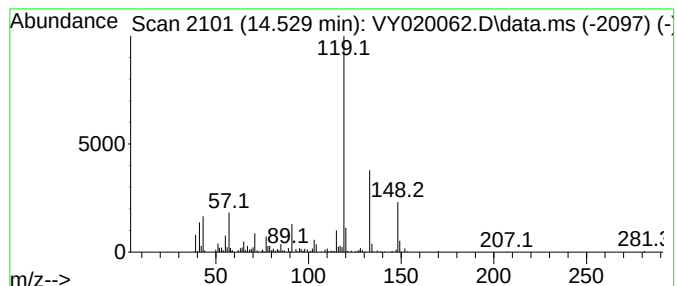
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Quant Title : SW846 8260

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

Peak Number 9 o-Cymene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	8.90 ug/l	169473	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			o-Cymene	134	C10H14	000527-84-4	70
2			Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	64
3			Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	59
4			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	58
5			1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

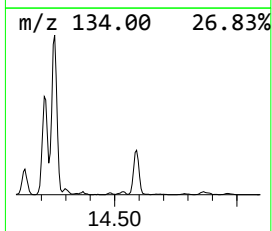
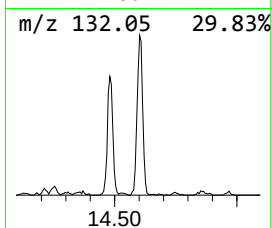
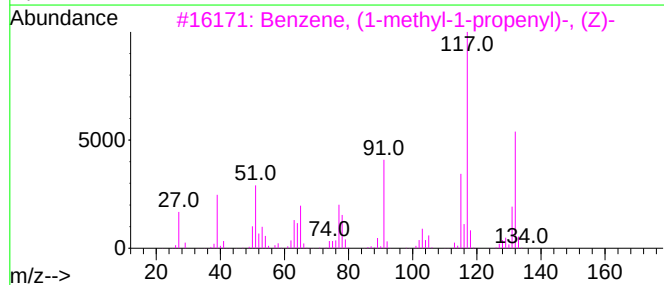
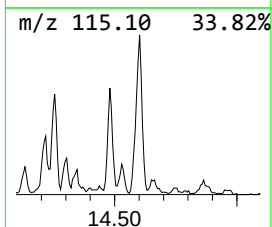
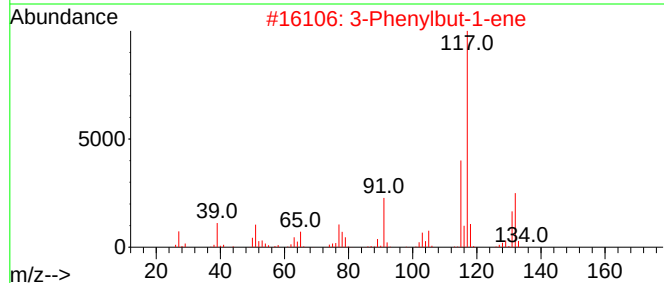
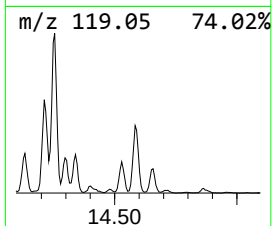
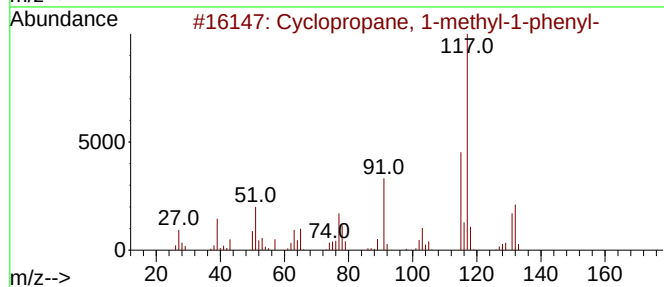
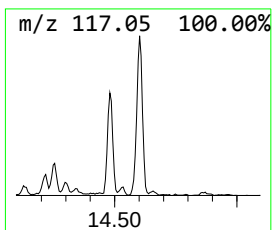
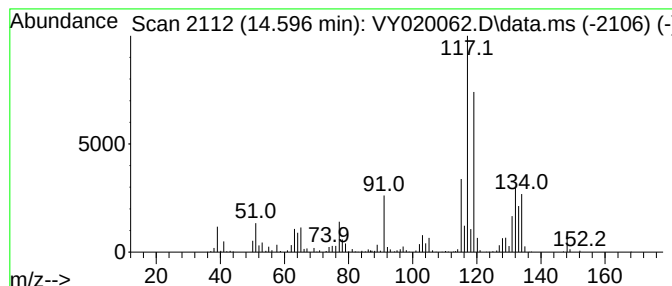
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 10 Cyclopropane, 1-methyl-1-ph... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.596	30.67 ug/l	584351	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopropane, 1-methyl-1-phenyl-	132	C10H12	002214-14-4	89
2			3-Phenylbut-1-ene	132	C10H12	000934-10-1	87
3			Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	70
4			Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	55
5			Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	55



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020062.D
Acq On : 29 Oct 2024 15:36
Operator : SY/MD
Sample : P4578-05
Misc : 8.09g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Benzene, 2-ethy...	13.584	11.0	ug/l	208712	4	13.346	952557	50.0
p-Cymene	13.834	9.6	ug/l	183395	4	13.346	952557	50.0
Benzene, 1-ethy...	13.889	26.7	ug/l	508413	4	13.346	952557	50.0
1,4-Cyclohexadi...	13.998	10.1	ug/l	191933	4	13.346	952557	50.0
Benzene, 1,2,4,...	14.212	22.9	ug/l	436821	4	13.346	952557	50.0
Benzene, 1-ethy...	14.254	31.4	ug/l	599032	4	13.346	952557	50.0
Benzene, 1,3-di...	14.297	10.9	ug/l	207593	4	13.346	952557	50.0
1H-Indene, 2,3-...	14.480	11.2	ug/l	214152	4	13.346	952557	50.0
o-Cymene	14.529	8.9	ug/l	169473	4	13.346	952557	50.0
Cyclopropane, 1...	14.596	30.7	ug/l	584351	4	13.346	952557	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.4
Sample Wt/Vol:	9.43 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
VY020035.D	1		10/28/24 12:43	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.93	U	0.93	2.80	ug/Kg
74-87-3	Chloromethane	0.65	U	0.65	2.80	ug/Kg
75-01-4	Vinyl Chloride	0.43	U	0.43	2.80	ug/Kg
74-83-9	Bromomethane	0.58	U	0.58	2.80	ug/Kg
75-00-3	Chloroethane	0.57	U	0.57	2.80	ug/Kg
75-69-4	Trichlorofluoromethane	0.51	U	0.51	2.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.60	U	0.60	2.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.44	U	0.44	2.80	ug/Kg
67-64-1	Acetone	3.50	U	3.50	14.0	ug/Kg
75-15-0	Carbon Disulfide	0.72	U	0.72	2.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.38	U	0.38	2.80	ug/Kg
79-20-9	Methyl Acetate	1.00	U	1.00	2.80	ug/Kg
75-09-2	Methylene Chloride	1.90	U	1.90	5.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.47	U	0.47	2.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.35	U	0.35	2.80	ug/Kg
110-82-7	Cyclohexane	0.39	U	0.39	2.80	ug/Kg
78-93-3	2-Butanone	3.20	U	3.20	14.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.49	U	0.49	2.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.34	U	0.34	2.80	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	2.80	ug/Kg
67-66-3	Chloroform	0.38	U	0.38	2.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.44	U	0.44	2.80	ug/Kg
108-87-2	Methylcyclohexane	0.49	U	0.49	2.80	ug/Kg
71-43-2	Benzene	0.40	U	0.40	2.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.34	U	0.34	2.80	ug/Kg
79-01-6	Trichloroethene	0.42	U	0.42	2.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.37	U	0.37	2.80	ug/Kg
75-27-4	Bromodichloromethane	0.31	U	0.31	2.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.40	U	2.40	14.0	ug/Kg
108-88-3	Toluene	0.38	U	0.38	2.80	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.4
Sample Wt/Vol:	9.43	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020035.D	1		10/28/24 12:43	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.34	U	0.34	2.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.32	U	0.32	2.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.47	U	0.47	2.80	ug/Kg
591-78-6	2-Hexanone	2.70	U	2.70	14.0	ug/Kg
124-48-1	Dibromochloromethane	0.37	U	0.37	2.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.44	U	0.44	2.80	ug/Kg
127-18-4	Tetrachloroethene	0.50	U	0.50	2.80	ug/Kg
108-90-7	Chlorobenzene	0.42	U	0.42	2.80	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	0.35	2.80	ug/Kg
179601-23-1	m/p-Xylenes	0.76	U	0.76	5.60	ug/Kg
95-47-6	o-Xylene	0.39	U	0.39	2.80	ug/Kg
100-42-5	Styrene	0.34	U	0.34	2.80	ug/Kg
75-25-2	Bromoform	0.45	U	0.45	2.80	ug/Kg
98-82-8	Isopropylbenzene	0.38	U	0.38	2.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.62	U	0.62	2.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.42	U	0.42	2.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.45	U	0.45	2.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.33	U	0.33	2.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.88	U	0.88	2.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.44	U	0.44	2.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.44	U	0.44	2.80	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	56.8	70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2	70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	51.6	70 (58) - 130 (134)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9	70 (29) - 130 (146)	88%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	212000	7.713
540-36-3	1,4-Difluorobenzene	437000	8.615
3114-55-4	Chlorobenzene-d5	399000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	145000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.4
Sample Wt/Vol:	9.43 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
VY020035.D	1		10/28/24 12:43	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000575-41-7	Naphthalene, 1,3-dimethyl-	8.10	J		12.6	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\VY102824\
 Data File : VY020035.D
 Acq On : 28 Oct 2024 12:43
 Operator : SY/MD
 Sample : P4578-07
 Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-305-BOT-1

Quant Time: Oct 29 01:56:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	212409	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	437109	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	398917	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	145301	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	148565	56.804	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	113.600%
35) Dibromofluoromethane	7.640	113	144871	50.225	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.460%
50) Toluene-d8	10.109	98	549680	51.604	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	103.200%
62) 4-Bromofluorobenzene	12.407	95	169141	43.946	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	87.900%

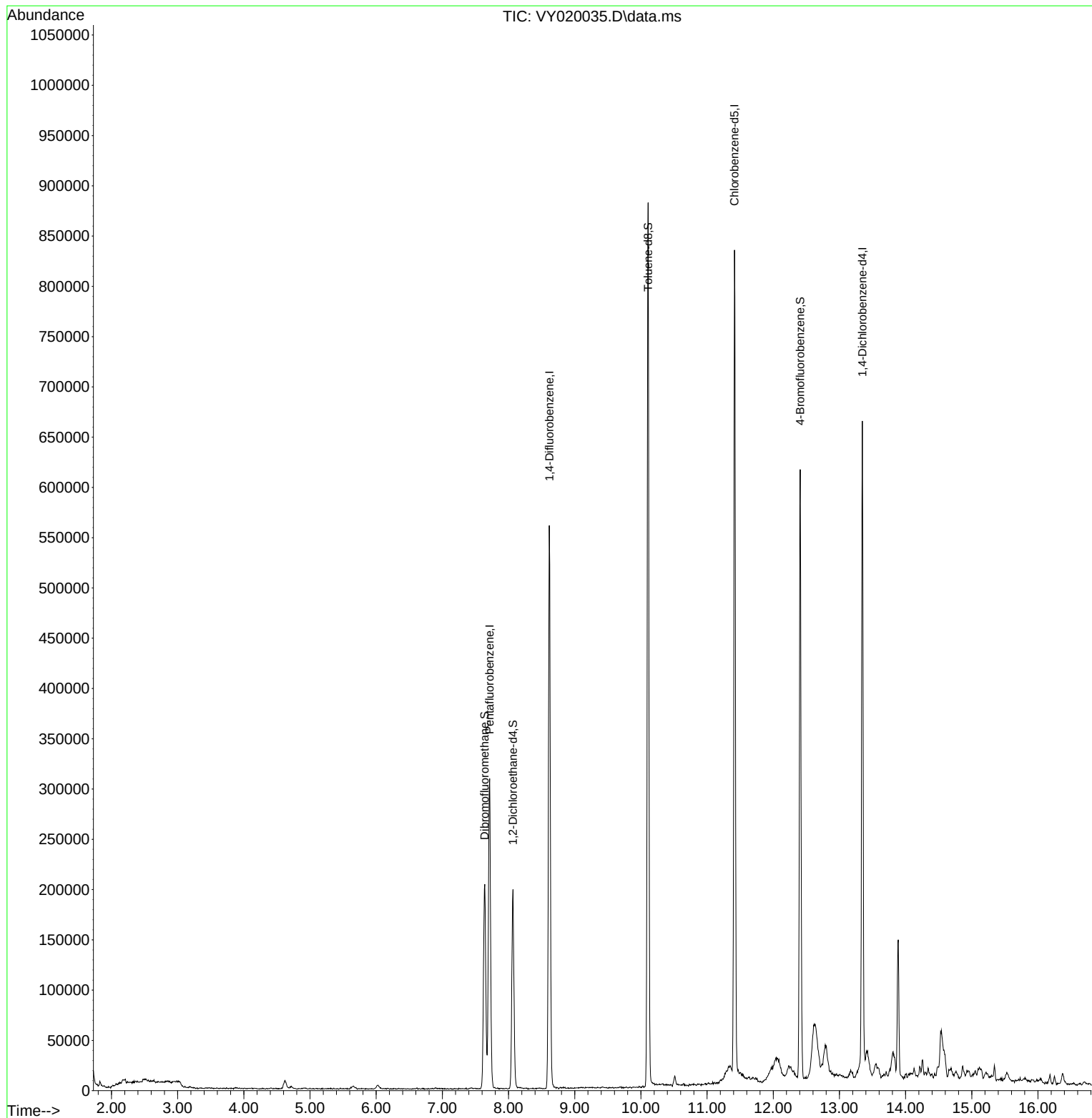
Target Compounds	Qvalue

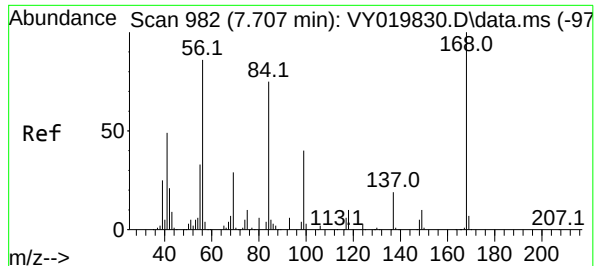
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020035.D
Acq On : 28 Oct 2024 12:43
Operator : SY/MD
Sample : P4578-07
Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 29 01:56:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

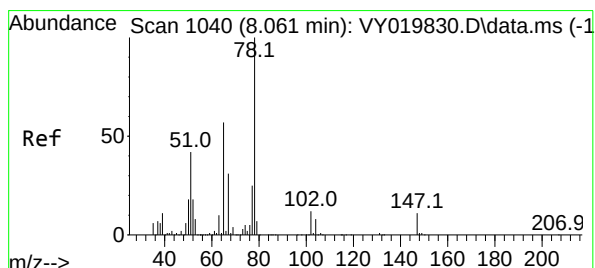
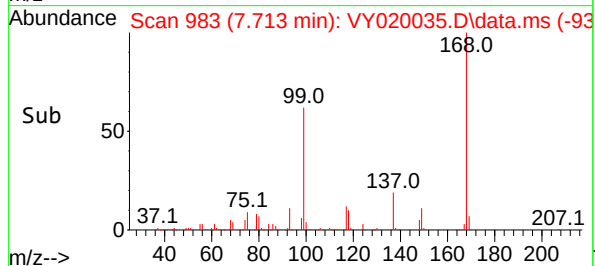
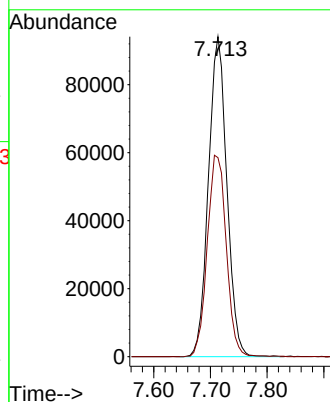
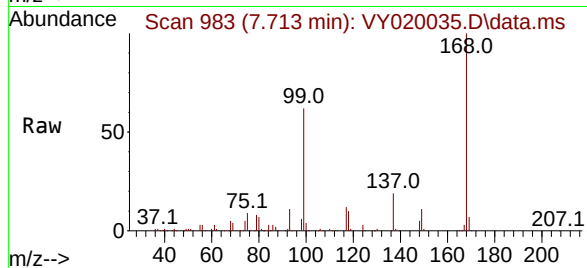




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

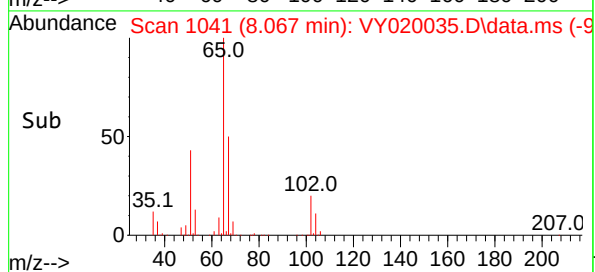
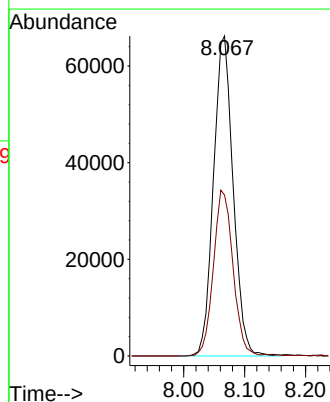
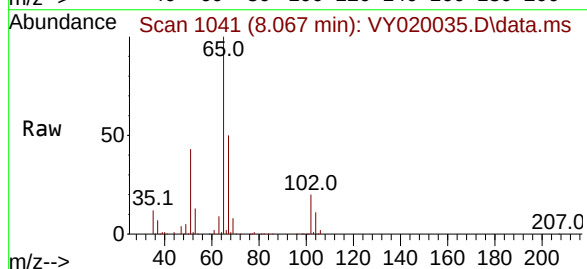
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

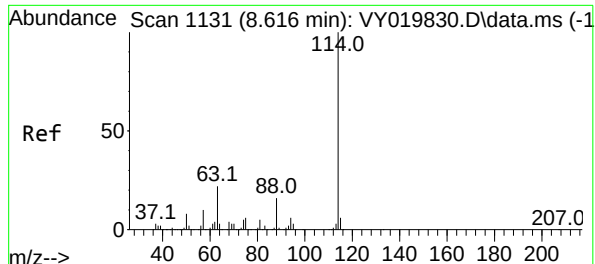
Tgt Ion:168 Resp: 212409
Ion Ratio Lower Upper
168 100
99 62.2 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 56.804 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

Tgt Ion: 65 Resp: 148565
Ion Ratio Lower Upper
65 100
67 51.5 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY020035.D

Acq: 28 Oct 2024 12:43

Instrument :

MSVOA_Y

ClientSampleId :

WB-305-BOT-1

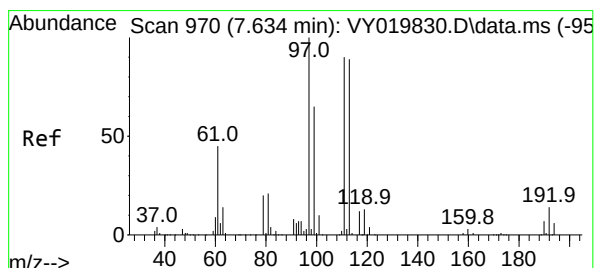
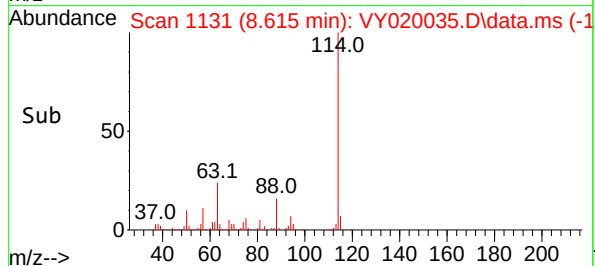
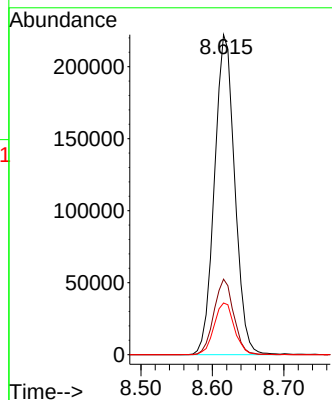
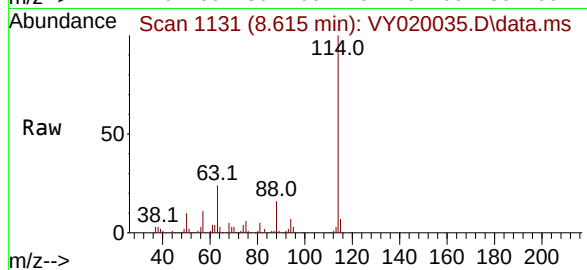
Tgt Ion:114 Resp: 437109

Ion Ratio Lower Upper

114 100

63 23.6 0.0 35.0

88 16.1 0.0 27.2



#35

Dibromofluoromethane

Concen: 50.225 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY020035.D

Acq: 28 Oct 2024 12:43

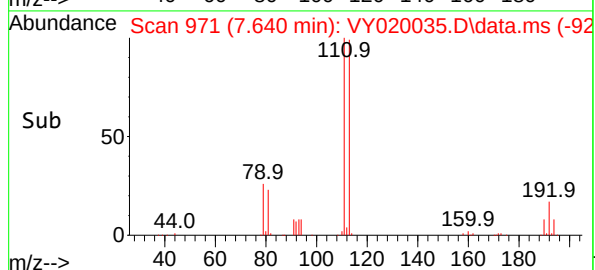
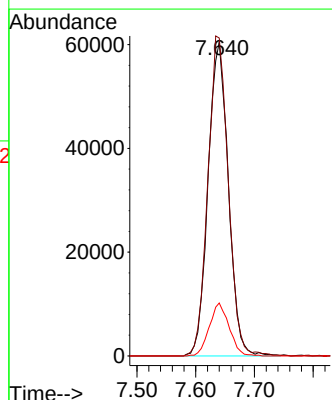
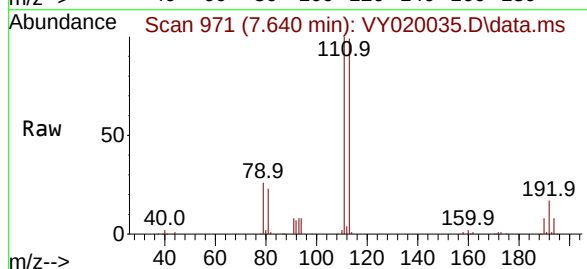
Tgt Ion:113 Resp: 144871

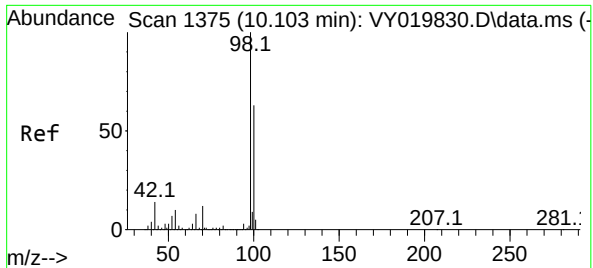
Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.4

192 16.5 15.9 23.9

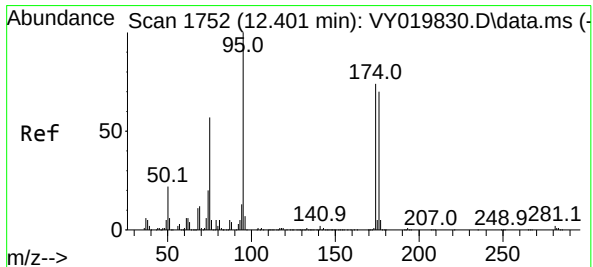
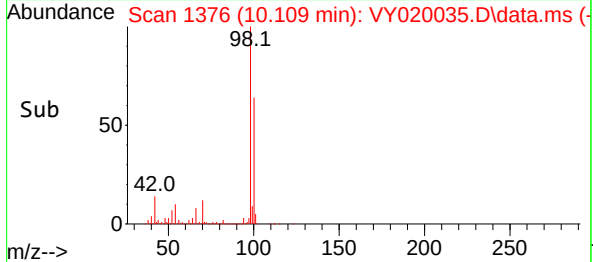
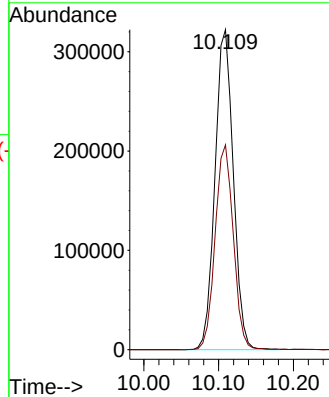
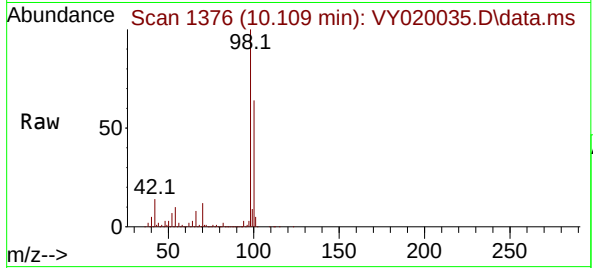




#50
Toluene-d8
Concen: 51.604 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

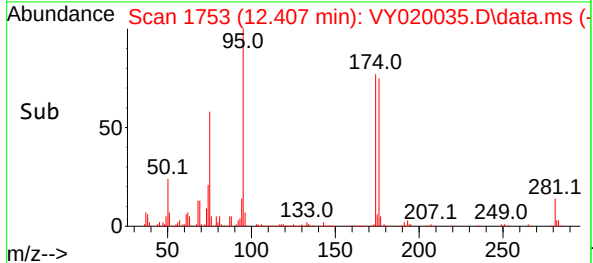
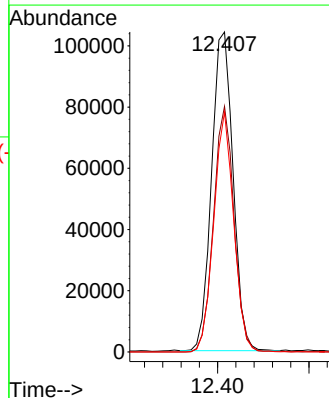
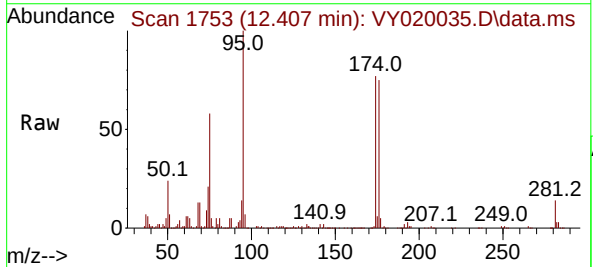
Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

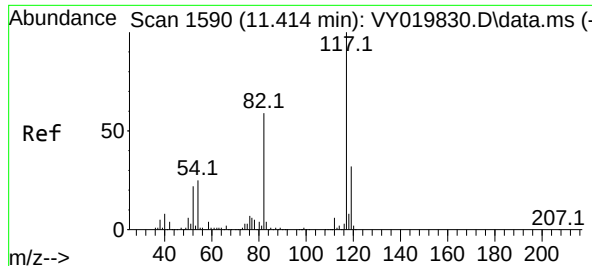
Tgt Ion: 98 Resp: 549680
Ion Ratio Lower Upper
98 100
100 63.6 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 43.946 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY020035.D
Acq: 28 Oct 2024 12:43

Tgt Ion: 95 Resp: 169141
Ion Ratio Lower Upper
95 100
174 73.9 0.0 175.6
176 70.3 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY020035.D

Acq: 28 Oct 2024 12:43

Instrument :

MSVOA_Y

ClientSampleId :

WB-305-BOT-1

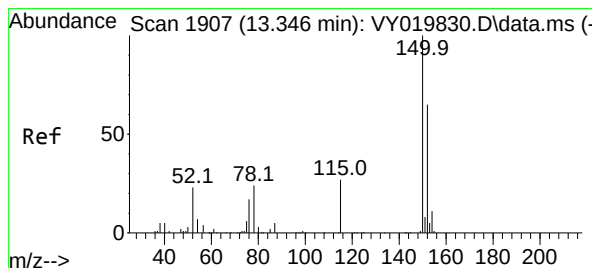
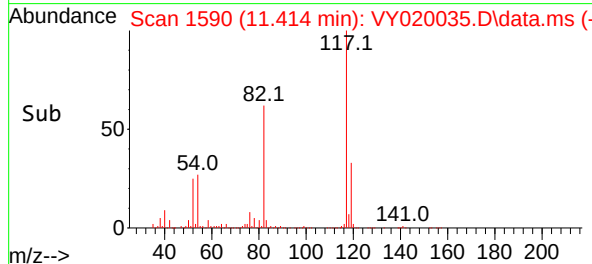
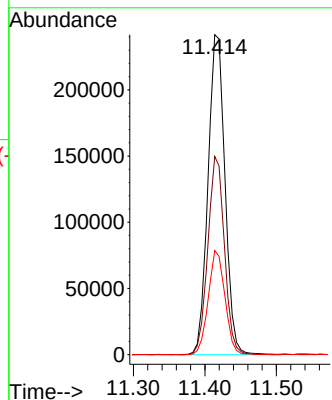
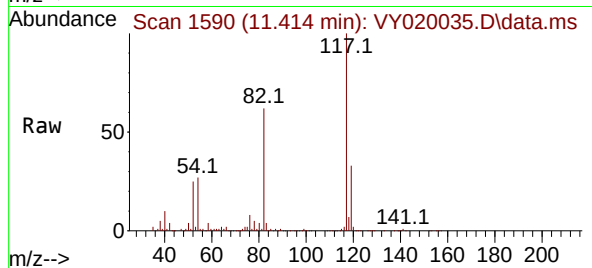
Tgt Ion:117 Resp: 398917

Ion Ratio Lower Upper

117 100

82 61.9 42.4 63.6

119 32.6 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY020035.D

Acq: 28 Oct 2024 12:43

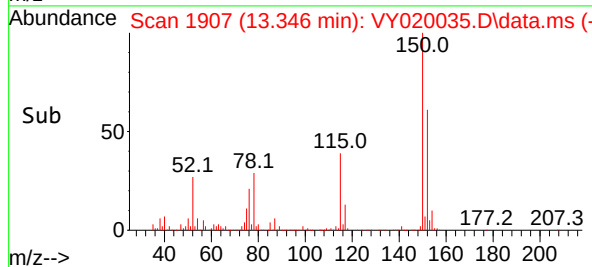
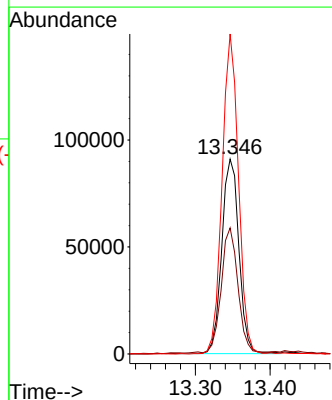
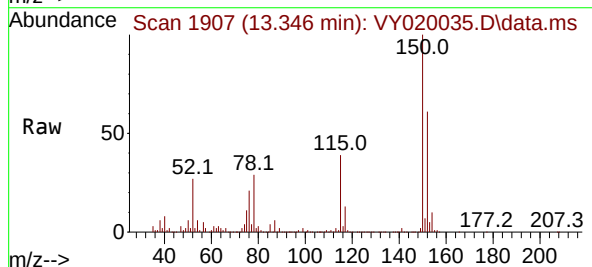
Tgt Ion:152 Resp: 145301

Ion Ratio Lower Upper

152 100

115 63.1 28.2 84.7

150 156.2 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020035.D
 Acq On : 28 Oct 2024 12:43
 Operator : SY/MD
 Sample : P4578-07
 Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-305-BOT-1

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y1009245.M
 Title : SW846 8260

Signal : TIC: VY020035.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	469	476	487	rBV4	8036	22813	1.50%	0.261%
2	7.640	959	971	977	rBV	203770	499993	32.98%	5.725%
3	7.713	977	983	994	rVB	307759	694366	45.80%	7.950%
4	8.067	1027	1041	1052	rBV	198391	440075	29.03%	5.039%
5	8.615	1123	1131	1144	rBV	559897	1102598	72.73%	12.624%
6	10.109	1368	1376	1386	rBV	879180	1516114	100.00%	17.359%
7	10.511	1436	1442	1448	rBV	10429	22788	1.50%	0.261%
8	11.292	1562	1570	1572	rBV6	8540	20687	1.36%	0.237%
9	11.414	1584	1590	1598	rVB	816424	1321969	87.19%	15.136%
10	11.969	1668	1681	1683	rBV	12200	36794	2.43%	0.421%
11	12.231	1719	1724	1727	rBV6	7840	15502	1.02%	0.177%
12	12.407	1746	1753	1761	rVB2	605863	1041242	68.68%	11.922%
13	12.621	1775	1788	1803	rBV5	49320	284708	18.78%	3.260%
14	12.785	1808	1815	1816	rBV7	20104	35631	2.35%	0.408%
15	13.346	1901	1907	1914	rBV	638702	983345	64.86%	11.259%
16	13.554	1935	1941	1944	rBV8	8879	19688	1.30%	0.225%
17	13.810	1976	1983	1990	rVV8	24616	86340	5.69%	0.989%
18	13.889	1990	1996	2007	rVB2	137271	240102	15.84%	2.749%
19	14.255	2052	2056	2060	rVB	15062	23261	1.53%	0.266%
20	14.492	2089	2095	2096	rBV5	9006	17184	1.13%	0.197%
21	14.541	2096	2103	2117	rVB6	46161	191611	12.64%	2.194%
22	14.864	2151	2156	2162	rBV8	11118	21330	1.41%	0.244%
23	15.340	2231	2234	2239	rVB3	15411	21923	1.45%	0.251%
24	15.529	2260	2265	2277	rVB3	8675	26963	1.78%	0.309%
25	16.181	2366	2372	2377	rVV3	9323	16027	1.06%	0.184%
26	16.370	2397	2403	2415	rVB7	11073	30821	2.03%	0.353%

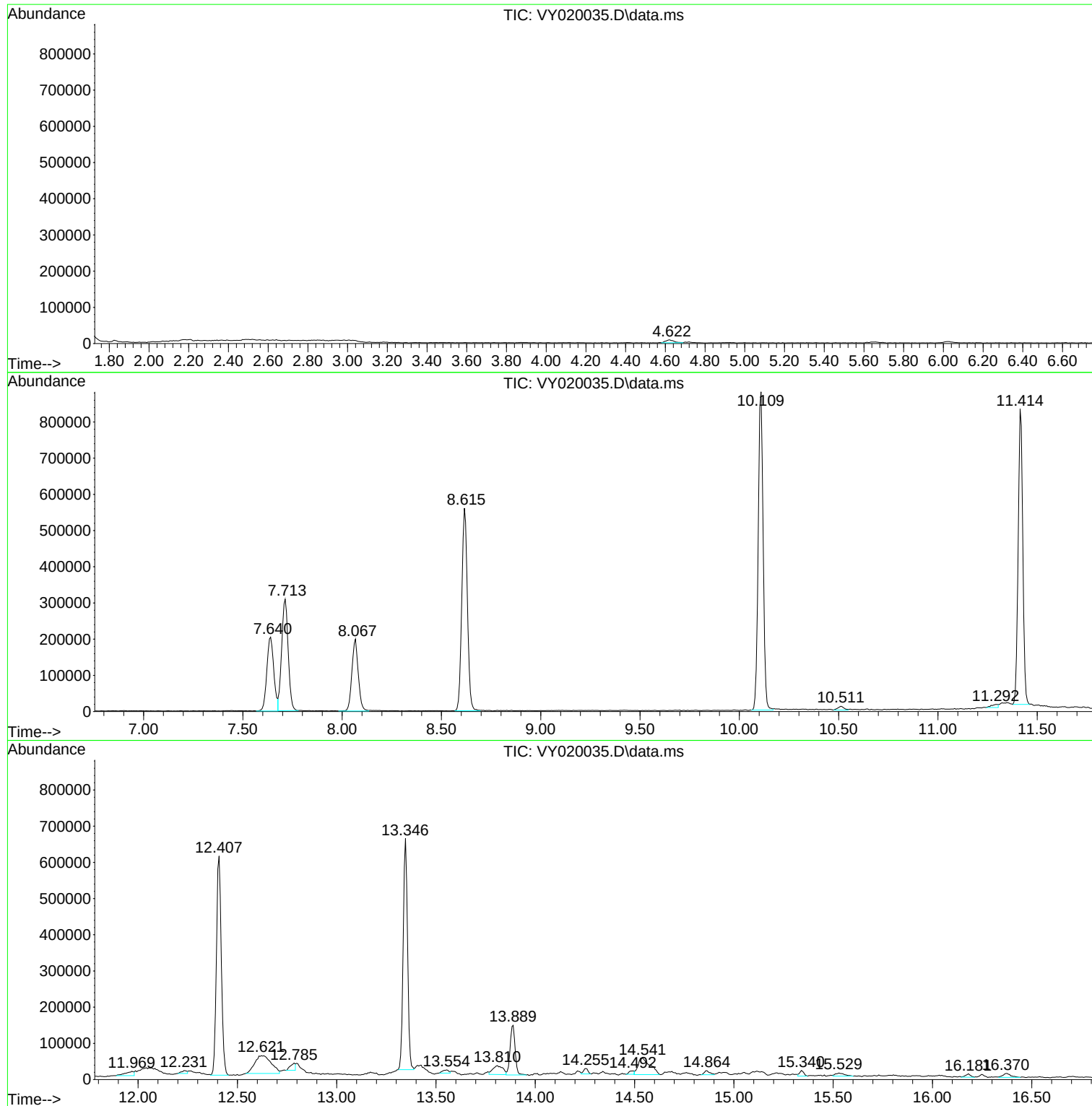
Sum of corrected areas: 8733875

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020035.D
Acq On : 28 Oct 2024 12:43
Operator : SY/MD
Sample : P4578-07
Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020035.D
Acq On : 28 Oct 2024 12:43
Operator : SY/MD
Sample : P4578-07
Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

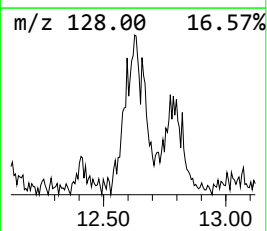
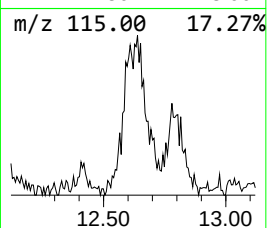
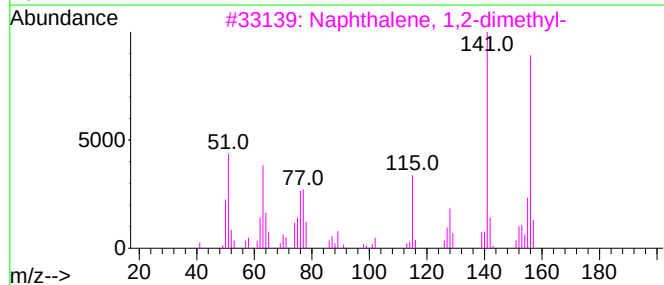
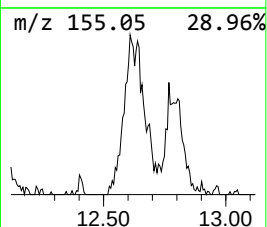
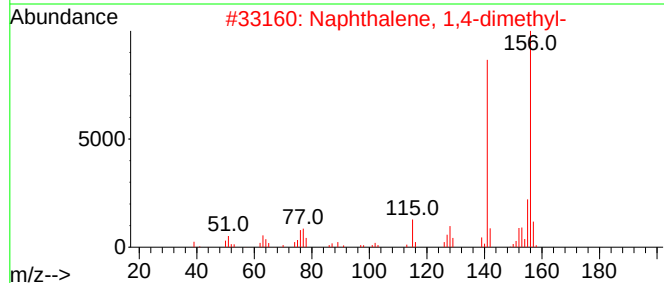
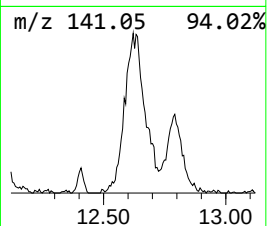
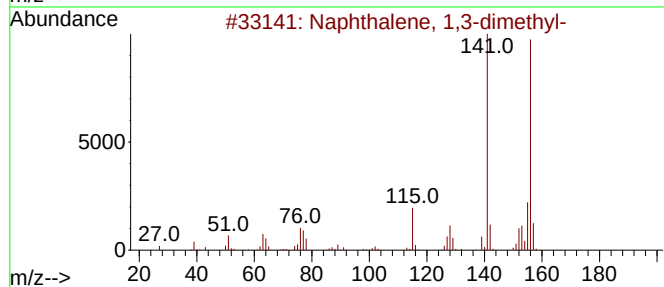
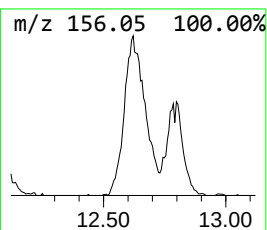
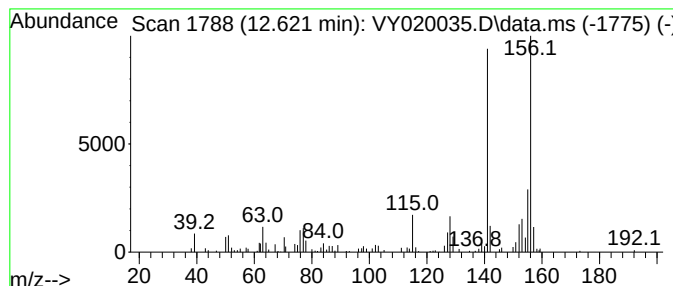
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 1 Naphthalene, 1,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.621	14.48 ug/l	284708	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
2			Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
3			Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	95
4			Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	94
5			Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020035.D
Acq On : 28 Oct 2024 12:43
Operator : SY/MD
Sample : P4578-07
Misc : 9.43g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Naphthalene, 1,...	12.621	14.5	ug/l	284708	4	13.346	983345	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/25/24	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/25/24	
Client Sample ID:	TB-10252024			SDG No.:	P4578	
Lab Sample ID:	P4578-09			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043591.D	1		10/29/24 12:56	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.70	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/25/24	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/25/24	
Client Sample ID:	TB-10252024			SDG No.:	P4578	
Lab Sample ID:	P4578-09			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043591.D	1		10/29/24 12:56	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.3		70 (74) - 130 (125)	89%	SPK: 50
1868-53-7	Dibromofluoromethane	45.3		70 (75) - 130 (124)	91%	SPK: 50
2037-26-5	Toluene-d8	49.8		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		70 (77) - 130 (121)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	157000	5.544			
540-36-3	1,4-Difluorobenzene	289000	6.757			
3114-55-4	Chlorobenzene-d5	251000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	105000	12.024			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	TB-10252024	SDG No.:	P4578
Lab Sample ID:	P4578-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043591.D	1		10/29/24 12:56	VX102924

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_X\Data\VX102924\
Data File : VX043591.D
Acq On : 29 Oct 2024 12:56
Operator : JC/MD
Sample : P4578-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Quant Time: Oct 30 01:30:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

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

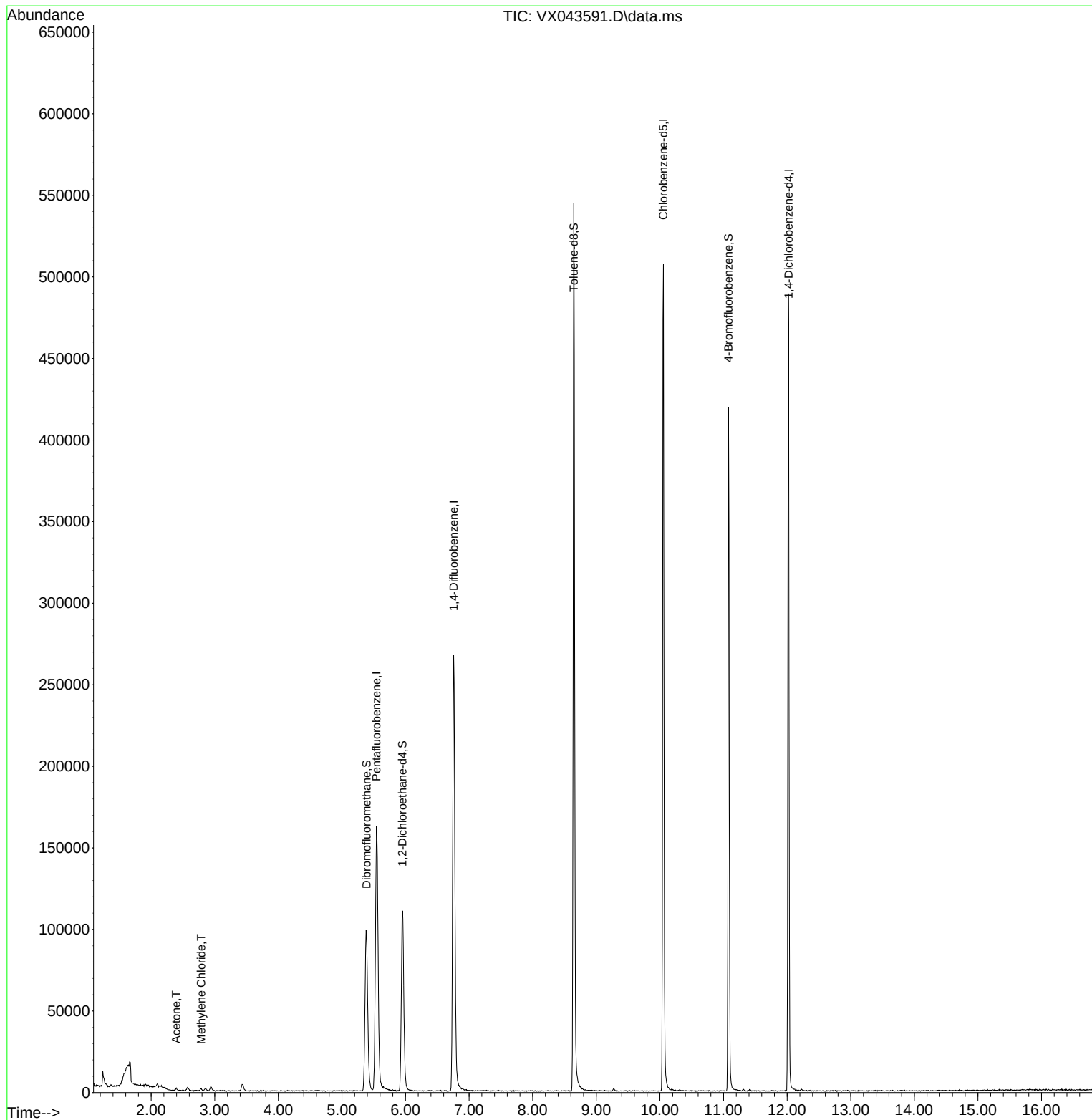
Internal Standards						
1) Pentafluorobenzene	5.544	168	156843	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	288755	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	251324	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	105429	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	110702	44.265	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	88.520%
35) Dibromofluoromethane	5.385	113	88640	45.270	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.540%
50) Toluene-d8	8.647	98	337480	49.790	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.580%
62) 4-Bromofluorobenzene	11.079	95	114524	45.598	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	91.200%
Target Compounds						
					Qvalue	
16) Acetone	2.392	43	1722	1.734	ug/l	95
20) Methylene Chloride	2.788	84	642	0.300	ug/l #	80

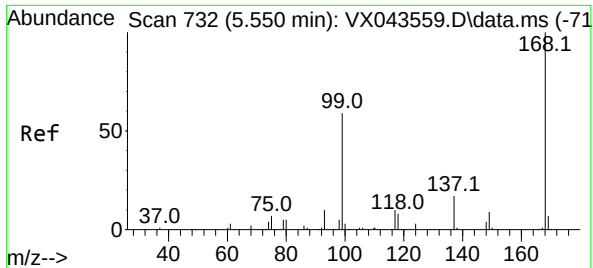
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043591.D
Acq On : 29 Oct 2024 12:56
Operator : JC/MD
Sample : P4578-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Quant Time: Oct 30 01:30:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

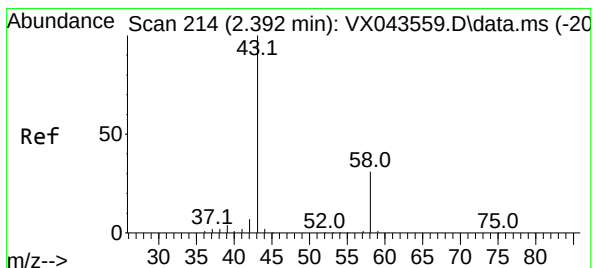
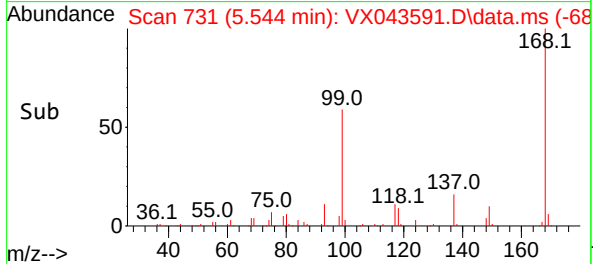
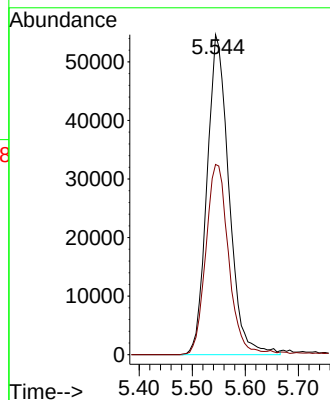
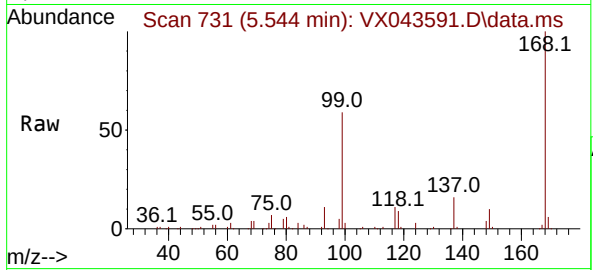




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.006 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

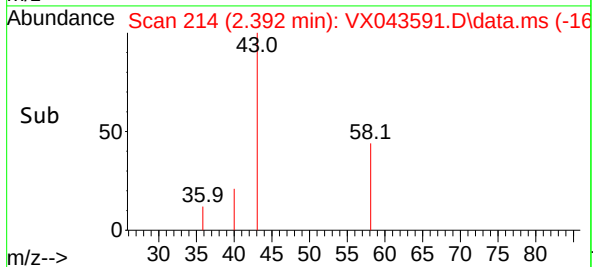
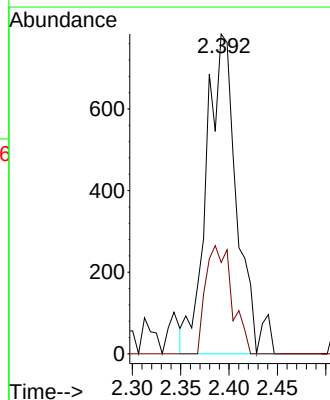
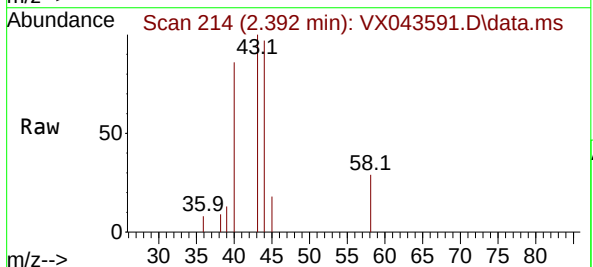
Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

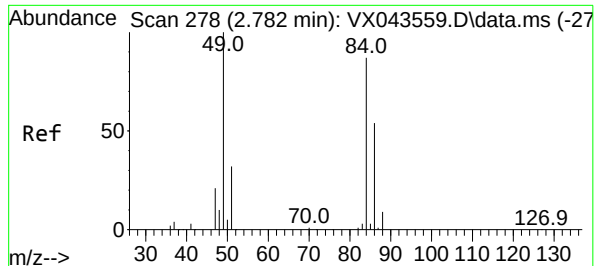
Tgt Ion:168 Resp: 156843
Ion Ratio Lower Upper
168 100
99 59.5 52.6 78.8



#16
Acetone
Concen: 1.734 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX043591.D
Acq: 29 Oct 2024 12:56

Tgt Ion: 43 Resp: 1722
Ion Ratio Lower Upper
43 100
58 28.6 25.1 37.7





#20

Methylene Chloride

Concen: 0.300 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX043591.D

Acq: 29 Oct 2024 12:56

Instrument :

MSVOA_X

ClientSampleId :

TB-10252024

Tgt Ion: 84 Resp: 642

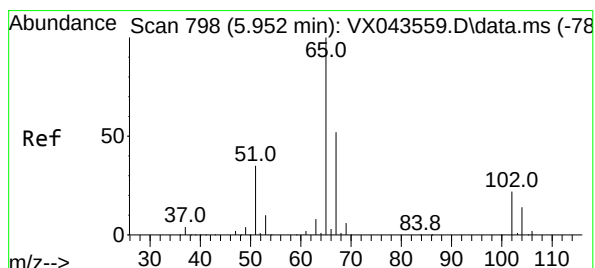
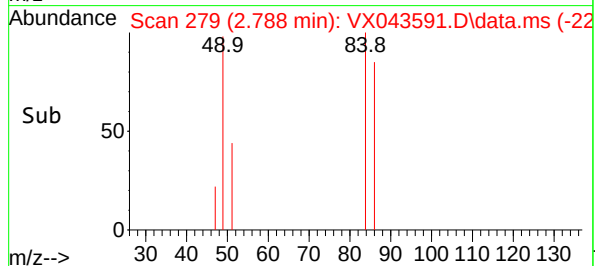
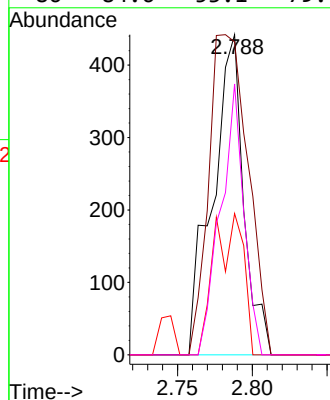
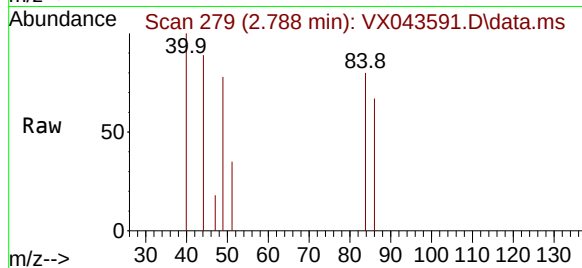
Ion Ratio Lower Upper

84 100

49 97.7 97.0 145.6

51 44.1 29.8 44.8

86 84.6 53.1 79.7#



#33

1,2-Dichloroethane-d4

Concen: 44.265 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX043591.D

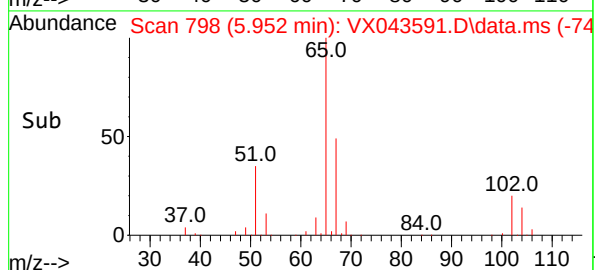
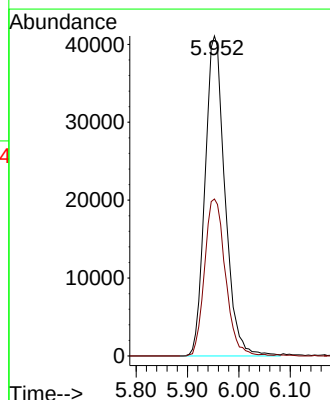
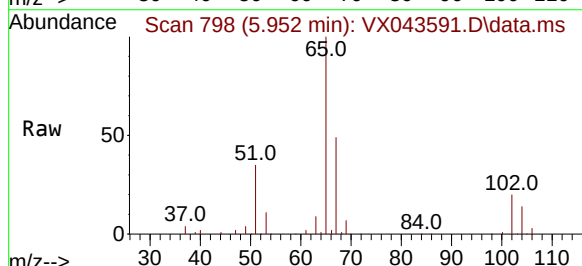
Acq: 29 Oct 2024 12:56

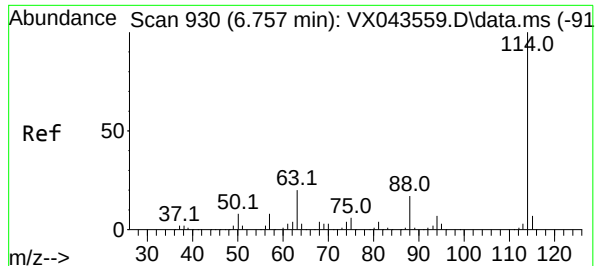
Tgt Ion: 65 Resp: 110702

Ion Ratio Lower Upper

65 100

67 51.4 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX043591.D

Acq: 29 Oct 2024 12:56

Instrument :

MSVOA_X

ClientSampleId :

TB-10252024

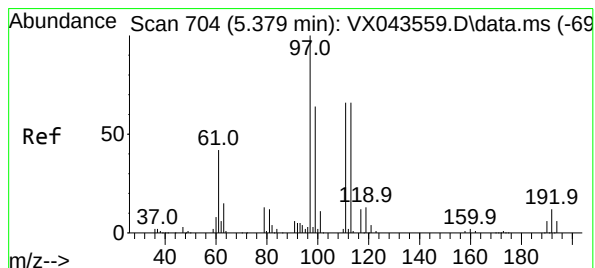
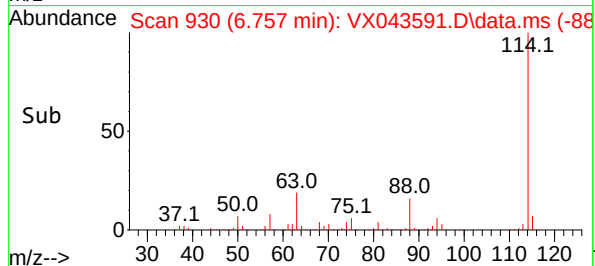
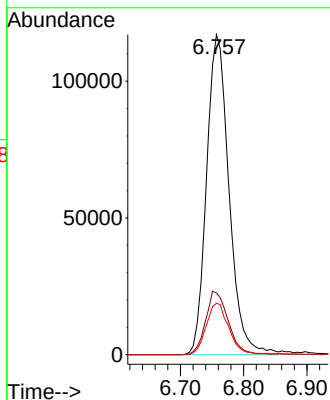
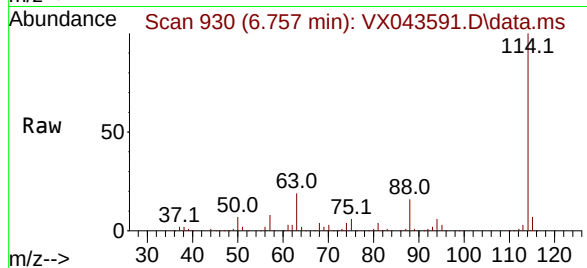
Tgt Ion:114 Resp: 288755

Ion Ratio Lower Upper

114 100

63 19.3 0.0 41.2

88 16.1 0.0 34.0



#35

Dibromofluoromethane

Concen: 45.270 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX043591.D

Acq: 29 Oct 2024 12:56

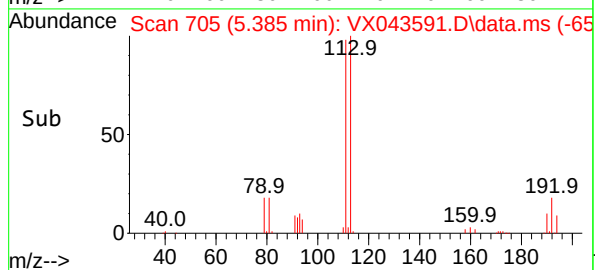
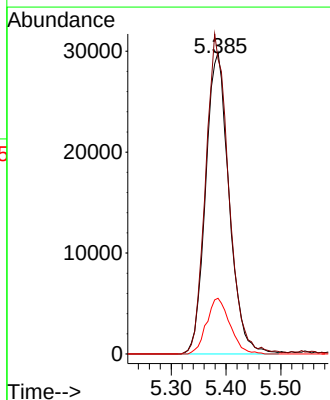
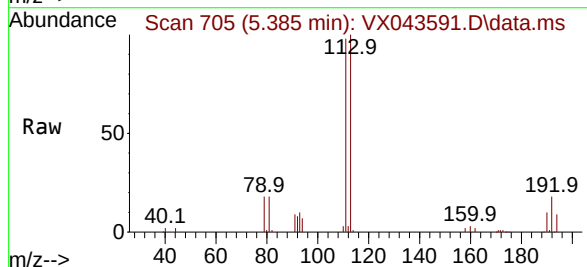
Tgt Ion:113 Resp: 88640

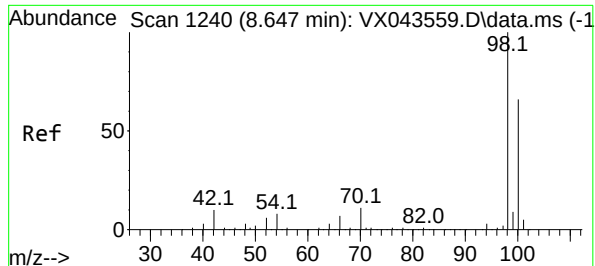
Ion Ratio Lower Upper

113 100

111 104.3 81.4 122.0

192 18.4 14.1 21.1





#50

Toluene-d8

Concen: 49.790 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX043591.D

Acq: 29 Oct 2024 12:56

Instrument :

MSVOA_X

ClientSampleId :

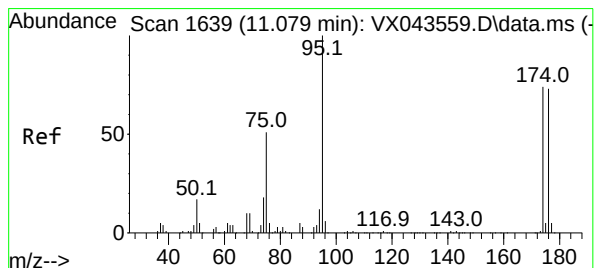
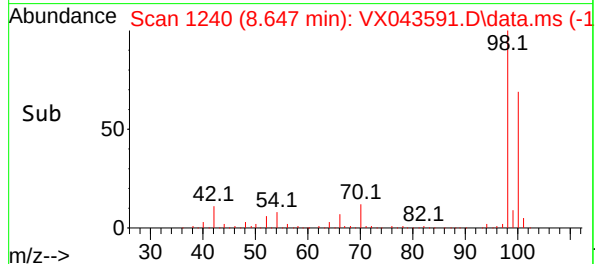
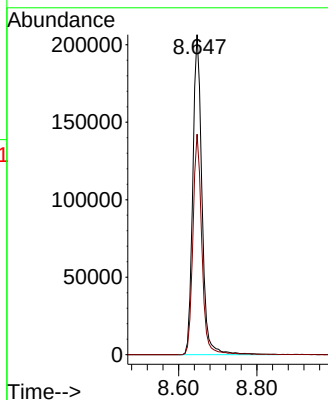
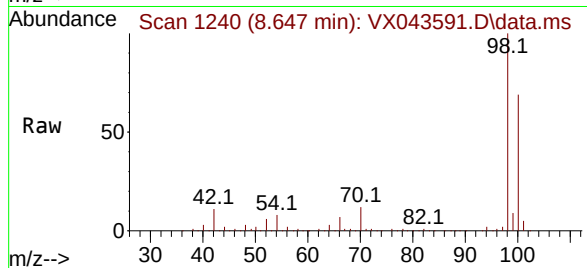
TB-10252024

Tgt Ion: 98 Resp: 337480

Ion Ratio Lower Upper

98 100

100 67.2 53.4 80.2



#62

4-Bromofluorobenzene

Concen: 45.598 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX043591.D

Acq: 29 Oct 2024 12:56

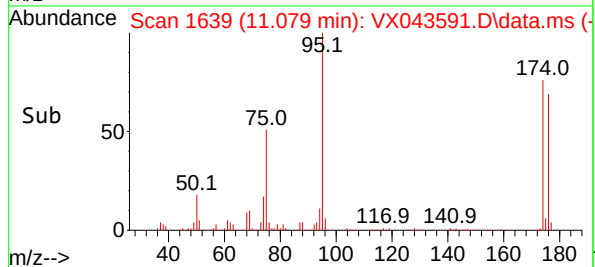
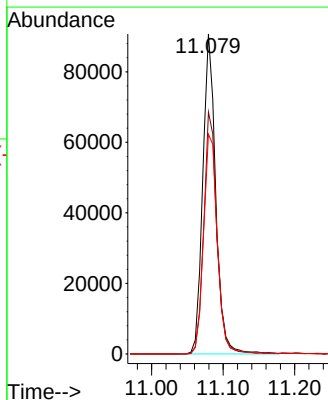
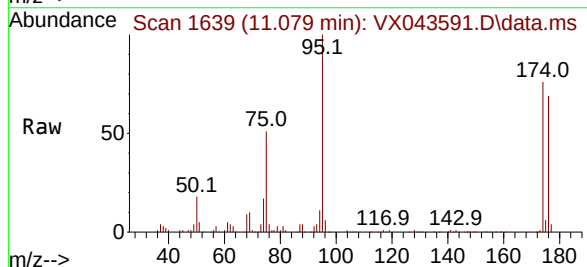
Tgt Ion: 95 Resp: 114524

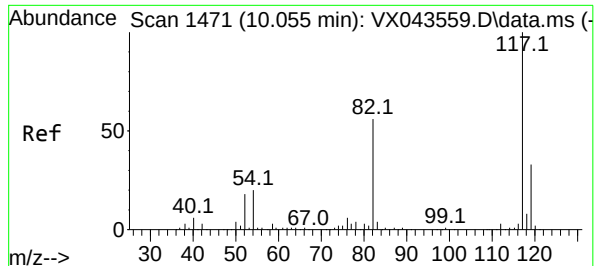
Ion Ratio Lower Upper

95 100

174 76.5 0.0 146.6

176 72.9 0.0 139.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX043591.D

Acq: 29 Oct 2024 12:56

Instrument :

MSVOA_X

ClientSampleId :

TB-10252024

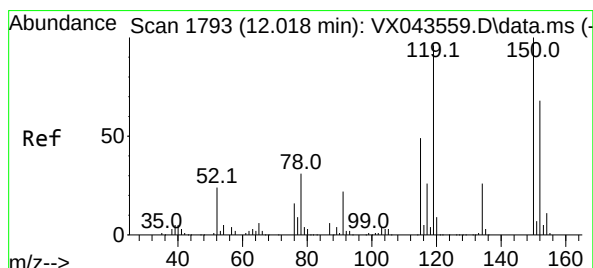
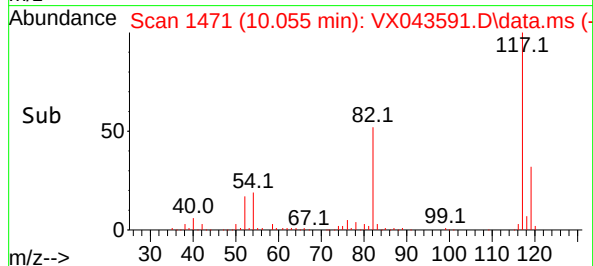
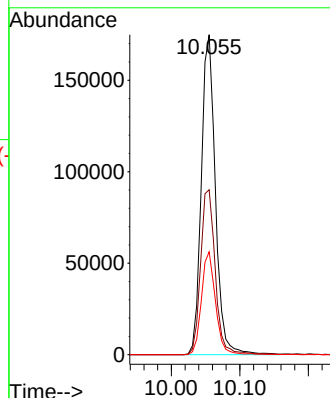
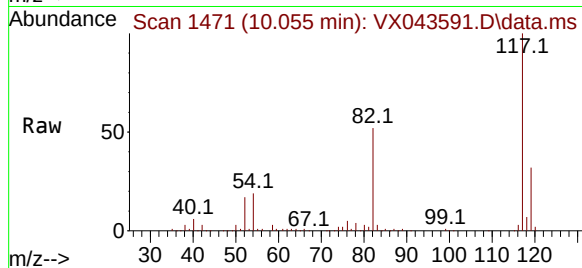
Tgt Ion:117 Resp: 251324

Ion Ratio Lower Upper

117 100

82 51.6 42.1 63.1

119 32.1 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX043591.D

Acq: 29 Oct 2024 12:56

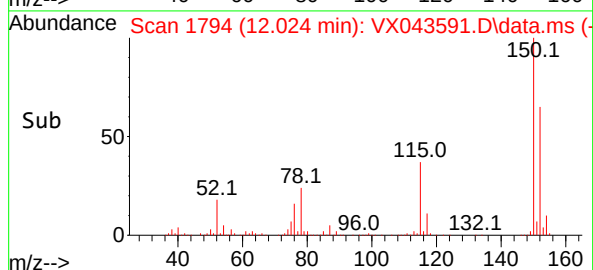
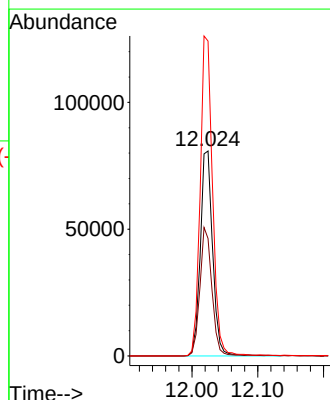
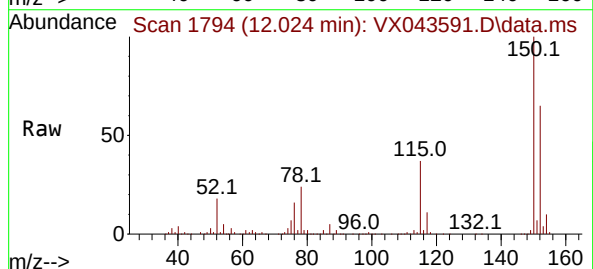
Tgt Ion:152 Resp: 105429

Ion Ratio Lower Upper

152 100

115 60.7 42.9 128.7

150 155.8 0.0 343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
 Data File : VX043591.D
 Acq On : 29 Oct 2024 12:56
 Operator : JC/MD
 Sample : P4578-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-10252024

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_X\Method\82X102824W.M

Title : SW846 8260

Signal : TIC: VX043591.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	22	25	32	rBV2	8981	14858	1.69%	0.328%
2	1.581	75	81	82	rBV6	4837	9314	1.06%	0.205%
3	3.428	379	384	395	rVB6	4012	10381	1.18%	0.229%
4	5.379	694	704	720	rBV2	98472	293220	33.40%	6.466%
5	5.544	720	731	747	rBV2	161833	468837	53.40%	10.338%
6	5.952	787	798	817	rBV	110447	301734	34.37%	6.653%
7	6.757	920	930	945	rBV2	267124	654792	74.58%	14.439%
8	8.647	1234	1240	1255	rBV	544379	877931	100.00%	19.359%
9	10.055	1465	1471	1488	rBV	506637	738578	84.13%	16.286%
10	11.079	1634	1639	1655	rBV	419365	537207	61.19%	11.846%
11	12.018	1788	1793	1805	rBV	488600	628132	71.55%	13.851%

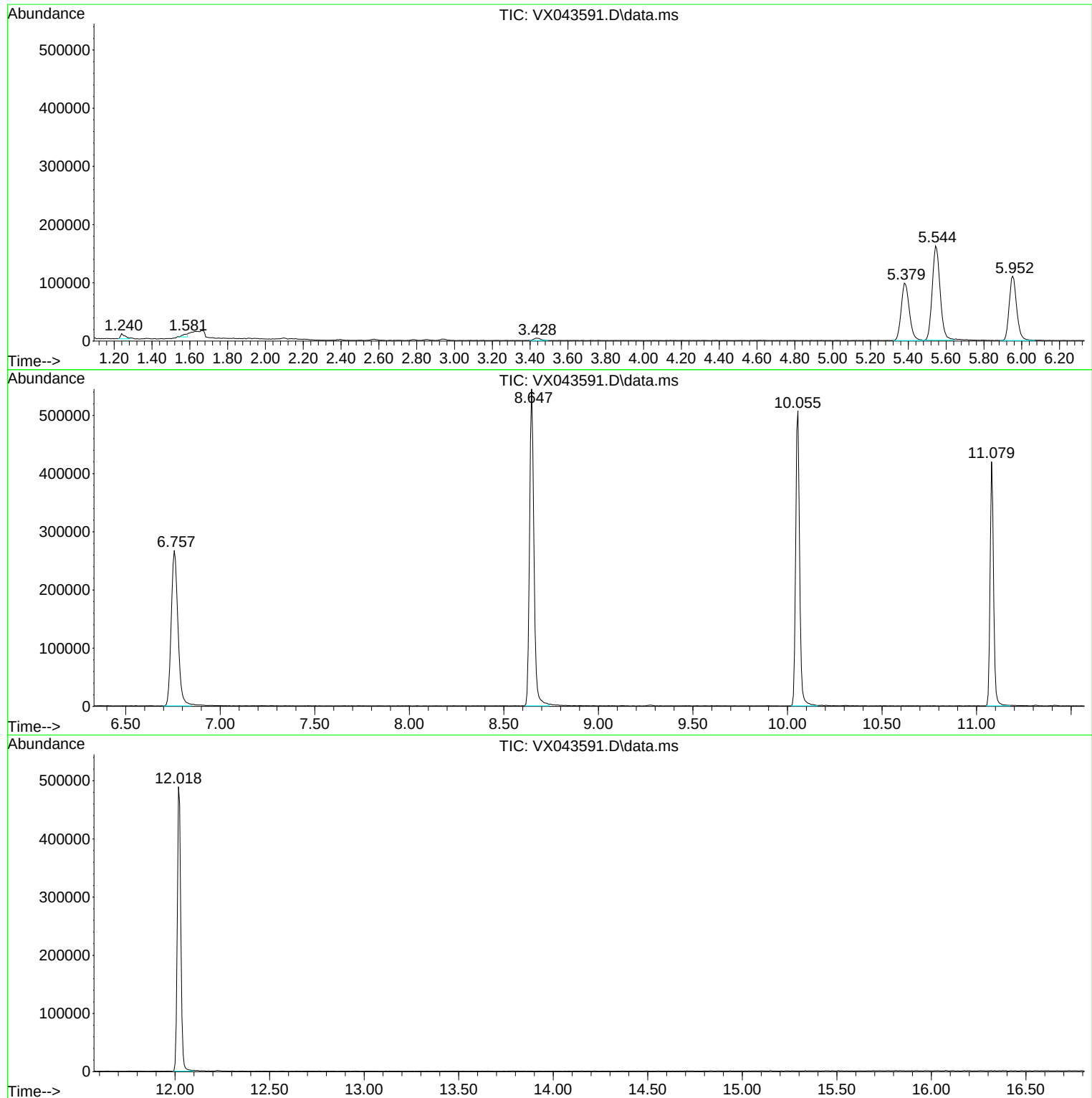
Sum of corrected areas: 4534984

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043591.D
Acq On : 29 Oct 2024 12:56
Operator : JC/MD
Sample : P4578-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043591.D
Acq On : 29 Oct 2024 12:56
Operator : JC/MD
Sample : P4578-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.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_X\Data\VX102924\
Data File : VX043591.D
Acq On : 29 Oct 2024 12:56
Operator : JC/MD
Sample : P4578-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10252024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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

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



CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_X Calibration Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX043556.D		RRF005 = VX043557.D		RRF020 = VX043558.D			
		RRF050 = VX043559.D		RRF100 = VX043560.D		RRF150 = VX043561.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.589	0.553	0.552	0.506	0.522	0.485	0.535	7	
Chloromethane	0.795	0.703	0.678	0.651	0.662	0.612	0.684	9.1	
Vinyl Chloride	0.626	0.674	0.638	0.634	0.643	0.591	0.634	4.2	
Bromomethane		0.267	0.246	0.262	0.260	0.258	0.259	2.9	
Chloroethane	0.263	0.215	0.212	0.225	0.217	0.210	0.223	9	
Trichlorofluoromethane	0.823	0.776	0.710	0.779	0.846	0.716	0.775	7.1	
1,1,2-Trichlorotrifluoroethane	0.522	0.546	0.522	0.525	0.539	0.491	0.524	3.7	
1,1-Dichloroethene	0.533	0.555	0.521	0.536	0.556	0.513	0.536	3.3	
Acetone	0.365	0.320	0.294	0.312	0.314	0.295	0.317	8.2	
Carbon Disulfide	1.067	0.974	1.007	1.134	1.310	1.227	1.120	11.6	
Methyl tert-butyl Ether	1.992	2.025	2.038	2.080	2.086	1.999	2.037	1.9	
Methyl Acetate	0.970	0.926	0.880	0.926	0.945	0.904	0.925	3.4	
Methylene Chloride	0.772	0.699	0.663	0.663	0.665	0.633	0.682	7.2	
trans-1,2-Dichloroethene	0.559	0.557	0.577	0.562	0.594	0.546	0.566	3	
1,1-Dichloroethane	1.103	1.105	1.103	1.109	1.135	1.048	1.101	2.6	
Cyclohexane		0.860	0.885	0.839	0.857	0.768	0.842	5.3	
2-Butanone	0.427	0.462	0.457	0.483	0.484	0.459	0.462	4.5	
Carbon Tetrachloride	0.462	0.442	0.423	0.444	0.465	0.429	0.444	3.8	
cis-1,2-Dichloroethene	0.708	0.719	0.716	0.740	0.747	0.707	0.723	2.3	
Bromochloromethane	0.512	0.529	0.531	0.507	0.545	0.516	0.524	2.7	
Chloroform	1.171	1.170	1.165	1.163	1.166	1.087	1.154	2.8	
1,1,1-Trichloroethane	0.939	0.949	0.978	0.986	1.020	0.939	0.969	3.3	
Methylcyclohexane	0.475	0.509	0.515	0.510	0.512	0.473	0.499	3.9	
Benzene	1.335	1.396	1.383	1.355	1.333	1.246	1.341	4	
1,2-Dichloroethane	0.455	0.488	0.500	0.495	0.489	0.466	0.482	3.6	
Trichloroethene	0.321	0.345	0.338	0.338	0.341	0.317	0.333	3.4	
1,2-Dichloropropane	0.327	0.339	0.325	0.338	0.333	0.320	0.330	2.2	
Bromodichloromethane	0.378	0.415	0.435	0.476	0.495	0.477	0.446	10	
4-Methyl-2-Pentanone	0.416	0.497	0.507	0.525	0.518	0.491	0.492	8	
Toluene	0.743	0.832	0.866	0.838	0.831	0.769	0.813	5.7	

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578
 Instrument ID: MSVOA_X Calibration Date(s): 10/28/2024 10/28/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:59 12:54
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX043556.D		RRF005 = VX043557.D		RRF020 = VX043558.D			
		RRF050 = VX043559.D		RRF100 = VX043560.D		RRF150 = VX043561.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.421	0.424	0.485	0.509	0.526	0.510	0.479	9.6	
cis-1,3-Dichloropropene	0.393	0.495	0.535	0.543	0.560	0.536	0.510	12	
1,1,2-Trichloroethane	0.318	0.341	0.345	0.355	0.345	0.327	0.339	4.1	
2-Hexanone	0.333	0.369	0.380	0.400	0.392	0.368	0.374	6.3	
Dibromochloromethane	0.259	0.289	0.332	0.367	0.387	0.377	0.335	15.4	
1,2-Dibromoethane	0.314	0.351	0.361	0.367	0.369	0.346	0.351	5.8	
Tetrachloroethene	0.337	0.323	0.327	0.309	0.308	0.284	0.314	5.8	
Chlorobenzene	1.098	1.110	1.083	1.075	1.081	1.007	1.076	3.3	
Ethyl Benzene	1.757	1.763	1.799	1.777	1.794	1.634	1.754	3.5	
m/p-Xylenes	0.625	0.680	0.708	0.691	0.691	0.629	0.671	5.2	
o-Xylene	0.616	0.698	0.698	0.689	0.698	0.645	0.674	5.2	
Styrene	1.007	1.055	1.174	1.183	1.189	1.114	1.120	6.8	
Bromoform	0.203	0.206	0.230	0.275	0.304	0.297	0.253	17.9	
Isopropylbenzene	3.522	3.684	3.705	3.560	3.549	3.230	3.542	4.8	
1,1,2,2-Tetrachloroethane	1.210	1.355	1.316	1.292	1.276	1.193	1.274	4.9	
1,3-Dichlorobenzene	1.645	1.695	1.647	1.646	1.654	1.548	1.639	3	
1,4-Dichlorobenzene	1.917	1.720	1.694	1.653	1.657	1.551	1.699	7.1	
1,2-Dichlorobenzene	1.638	1.735	1.698	1.726	1.675	1.586	1.676	3.4	
1,2-Dibromo-3-Chloropropane	0.229	0.220	0.256	0.281	0.291	0.281	0.260	11.5	
1,2,4-Trichlorobenzene	0.865	1.008	0.999	1.080	1.099	1.052	1.017	8.3	
1,2,3-Trichlorobenzene	0.976	1.057	1.077	1.101	1.146	1.080	1.073	5.3	
1,2-Dichloroethane-d4		0.902	0.794	0.785	0.771	0.735	0.797	7.9	
Dibromofluoromethane		0.358	0.337	0.336	0.342	0.323	0.339	3.7	
Toluene-d8		1.255	1.206	1.175	1.159	1.072	1.174	5.8	
4-Bromofluorobenzene		0.446	0.431	0.444	0.439	0.415	0.435	2.9	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X102824W.M
 Title : SW846 8260
 Last Update : Mon Oct 28 13:41:34 2024
 Response Via : Initial Calibration

Calibration Files

1 =VX043556.D 5 =VX043557.D 20 =VX043558.D 50 =VX043559.D 100 =VX043560.D 150 =VX043561.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.589	0.553	0.552	0.506	0.522	0.485	0.535	7.04
3) P	Chloromethane	0.795	0.703	0.678	0.651	0.662	0.612	0.684	9.15
4) C	Vinyl Chloride	0.626	0.674	0.638	0.634	0.643	0.591	0.634	4.23#
5) T	Bromomethane		0.267	0.246	0.262	0.260	0.258	0.259	2.91
6) T	Chloroethane	0.263	0.215	0.212	0.225	0.217	0.210	0.223	8.96
7) T	Trichlorofluor...	0.823	0.776	0.710	0.779	0.846	0.716	0.775	7.10
8) T	Diethyl Ether	0.336	0.375	0.355	0.355	0.378	0.349	0.358	4.46
9) T	1,1,2-Trichlor...	0.522	0.546	0.522	0.525	0.539	0.491	0.524	3.67
10) T	Methyl Iodide		0.726	0.762	0.782	0.789	0.726	0.757	3.98
11) T	Tert butyl alc...		0.131	0.131	0.156	0.170	0.155	0.149	11.43
12) CM	1,1-Dichloroet...	0.533	0.555	0.521	0.536	0.556	0.513	0.536	3.27#
13) T	Acrolein		0.124	0.121	0.109	0.117	0.111	0.116	5.54
14) T	Allyl chloride	0.911	0.881	0.900	0.953	1.003	0.911	0.926	4.82
15) T	Acrylonitrile	0.302	0.335	0.331	0.348	0.360	0.340	0.336	5.75
16) T	Acetone	0.365	0.320	0.294	0.312	0.314	0.295	0.317	8.17
17) T	Carbon Disulfide	1.067	0.974	1.007	1.134	1.310	1.227	1.120	11.61
18) T	Methyl Acetate	0.970	0.926	0.880	0.926	0.945	0.904	0.925	3.37
19) T	Methyl tert-bu...	1.992	2.025	2.038	2.080	2.086	1.999	2.037	1.94
20) T	Methylene Chlo...	0.772	0.699	0.663	0.663	0.665	0.633	0.682	7.16
21) T	trans-1,2-Dich...	0.559	0.557	0.577	0.562	0.594	0.546	0.566	3.01
22) T	Diisopropyl ether	1.799	1.992	1.982	1.951	1.942	1.823	1.915	4.32
23) T	Vinyl Acetate	1.326	1.547	1.607	1.688	1.706	1.618	1.582	8.73
24) P	1,1-Dichloroet...	1.103	1.105	1.103	1.109	1.135	1.048	1.101	2.57
25) T	2-Butanone	0.427	0.462	0.457	0.483	0.484	0.459	0.462	4.54
26) T	2,2-Dichloropr...	0.928	0.914	0.901	0.889	0.925	0.848	0.901	3.33
27) T	cis-1,2-Dichlo...	0.708	0.719	0.716	0.740	0.747	0.707	0.723	2.33
28) T	Bromochloromet...	0.512	0.529	0.531	0.507	0.545	0.516	0.524	2.73
29) T	Tetrahydrofuran	0.281	0.305	0.299	0.310	0.312	0.295	0.300	3.78
30) C	Chloroform	1.171	1.170	1.165	1.163	1.166	1.087	1.154	2.82#
31) T	Cyclohexane		0.860	0.885	0.839	0.857	0.768	0.842	5.26
32) T	1,1,1-Trichlor...	0.939	0.949	0.978	0.986	1.020	0.939	0.969	3.32
33) S	1,2-Dichloroet...		0.902	0.794	0.785	0.771	0.735	0.797	7.86
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.358	0.337	0.336	0.342	0.323	0.339	3.73
36) T	1,1-Dichloropr...	0.451	0.396	0.408	0.388	0.400	0.369	0.402	6.88
37) T	Ethyl Acetate	0.522	0.416	0.498	0.506	0.503	0.484	0.488	7.65
38) T	Carbon Tetrach...	0.462	0.442	0.423	0.444	0.465	0.429	0.444	3.83
39) T	Methylcyclohexane	0.475	0.509	0.515	0.510	0.512	0.473	0.499	3.88
40) TM	Benzene	1.335	1.396	1.383	1.355	1.333	1.246	1.341	3.97
41) T	Methacrylonitrile	0.260	0.221	0.260	0.271	0.270	0.256	0.256	7.12
42) TM	1,2-Dichloroet...	0.455	0.488	0.500	0.495	0.489	0.466	0.482	3.65
43) T	Isopropyl Acetate	0.744	0.809	0.795	0.836	0.845	0.814	0.807	4.45
44) TM	Trichloroethene	0.321	0.345	0.338	0.338	0.341	0.317	0.333	3.45
45) C	1,2-Dichloropr...	0.327	0.339	0.325	0.338	0.333	0.320	0.330	2.25#
46) T	Dibromomethane	0.230	0.264	0.258	0.260	0.262	0.252	0.254	4.93
47) T	Bromodichlorom...	0.378	0.415	0.435	0.476	0.495	0.477	0.446	10.03
48) T	Methyl methacr...	0.319	0.367	0.391	0.402	0.412	0.404	0.383	9.07
49) T	1,4-Dioxane	0.008	0.008	0.007	0.008	0.010	0.007	0.008	13.42
50) S	Toluene-d8		1.255	1.206	1.175	1.159	1.072	1.174	5.76
51) T	4-Methyl-2-Pen...	0.416	0.497	0.507	0.525	0.518	0.491	0.492	8.04
52) CM	Toluene	0.743	0.832	0.866	0.838	0.831	0.769	0.813	5.75#
53) T	t-1,3-Dichloro...	0.421	0.424	0.485	0.509	0.526	0.510	0.479	9.64
54) T	cis-1,3-Dichlo...	0.393	0.495	0.535	0.543	0.560	0.536	0.510	12.02
55) T	1,1,2-Trichlor...	0.318	0.341	0.345	0.355	0.345	0.327	0.339	4.05
56) T	Ethyl methacry...	0.473	0.522	0.561	0.590	0.588	0.566	0.550	8.19

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X102824W.M

57)	T	1,3-Dichloropr...	0.495	0.577	0.589	0.590	0.576	0.551	0.563	6.42
58)	T	2-Chloroethyl ...	0.232	0.257	0.287	0.268	0.279	0.275	0.266	7.34
59)	T	2-Hexanone	0.333	0.369	0.380	0.400	0.392	0.368	0.374	6.33
60)	T	Dibromochlorom...	0.259	0.289	0.332	0.367	0.387	0.377	0.335	15.42
61)	T	1,2-Dibromoethane	0.314	0.351	0.361	0.367	0.369	0.346	0.351	5.81
62)	S	4-Bromofluorob...	0.446	0.431	0.444	0.439	0.415	0.435		2.92
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.337	0.323	0.327	0.309	0.308	0.284	0.314	5.83
65)	PM	Chlorobenzene	1.098	1.110	1.082	1.075	1.081	1.007	1.076	3.34
66)	T	1,1,1,2-Tetrac...	0.301	0.345	0.350	0.372	0.381	0.359	0.351	8.05
67)	C	Ethyl Benzene	1.757	1.763	1.799	1.777	1.794	1.634	1.754	3.48#
68)	T	m/p-Xylenes	0.625	0.680	0.708	0.691	0.691	0.629	0.671	5.21
69)	T	o-Xylene	0.616	0.698	0.698	0.689	0.698	0.645	0.674	5.20
70)	T	Styrene	1.007	1.055	1.174	1.183	1.189	1.114	1.120	6.75
71)	P	Bromoform	0.203	0.206	0.230	0.275	0.304	0.297	0.253	17.91
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.522	3.684	3.705	3.560	3.549	3.230	3.542	4.80
74)	T	N-amyl acetate	1.647	1.710	1.736	1.773	1.779	1.708	1.725	2.83
75)	P	1,1,2,2-Tetrac...	1.210	1.355	1.316	1.292	1.276	1.193	1.274	4.86
76)	T	1,2,3-Trichlor...	0.928	1.210	1.166	1.071	1.043	0.996	1.069	9.83
77)	T	Bromobenzene	0.922	0.945	0.926	0.925	0.922	0.847	0.915	3.74
78)	T	n-propylbenzene	3.678	3.819	4.066	3.986	3.987	3.635	3.862	4.63
79)	T	2-Chlorotoluene	2.723	2.677	2.652	2.517	2.499	2.296	2.561	6.15
80)	T	1,3,5-Trimethy...	2.761	3.105	3.117	3.038	2.984	2.714	2.953	5.91
81)	T	trans-1,4-Dich...	0.290	0.356	0.418	0.447	0.432	0.389		16.71
82)	T	4-Chlorotoluene	2.951	2.921	2.942	2.892	2.887	2.652	2.874	3.88
83)	T	tert-Butylbenzene	2.885	3.100	3.149	3.041	3.068	2.777	3.003	4.73
84)	T	1,2,4-Trimethy...	2.780	3.111	3.187	3.099	3.051	2.829	3.010	5.50
85)	T	sec-Butylbenzene	3.295	3.559	3.718	3.642	3.604	3.304	3.520	5.09
86)	T	p-Isopropyltol...	2.741	2.984	3.123	3.121	3.138	2.847	2.992	5.58
87)	T	1,3-Dichlorobe...	1.645	1.695	1.647	1.646	1.654	1.548	1.639	2.97
88)	T	1,4-Dichlorobe...	1.917	1.720	1.694	1.653	1.657	1.551	1.699	7.14
89)	T	n-Butylbenzene	2.117	2.230	2.516	2.614	2.687	2.467	2.438	9.10
90)	T	Hexachloroethane	0.408	0.421	0.476	0.519	0.560	0.533	0.486	12.77
91)	T	1,2-Dichlorobe...	1.638	1.735	1.697	1.726	1.675	1.586	1.676	3.38
92)	T	1,2-Dibromo-3-...	0.229	0.220	0.256	0.281	0.291	0.281	0.260	11.53
93)	T	1,2,4-Trichlor...	0.865	1.008	0.999	1.080	1.099	1.052	1.017	8.27
94)	T	Hexachlorobuta...	0.392	0.367	0.378	0.373	0.391	0.351	0.375	4.13
95)	T	Naphthalene	3.249	3.742	4.006	4.126	4.229	4.007	3.893	9.12
96)	T	1,2,3-Trichlor...	0.976	1.057	1.077	1.101	1.146	1.080	1.073	5.25

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043556.D
 Acq On : 28 Oct 2024 10:59
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:30:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	161665	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	295688	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	253619	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	113521	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	1906	1.058	ug/l	96
3) Chloromethane	1.294	50	2572	1.119	ug/l	94
4) Vinyl Chloride	1.374	62	2023	0.966	ug/l #	85
6) Chloroethane	1.666	64	850	1.240	ug/l	90
7) Trichlorofluoromethane	1.861	101	2660	0.968	ug/l	95
8) Diethyl Ether	2.136	74	1086	0.905	ug/l	62
9) 1,1,2-Trichlorotrifluo...	2.313	101	1687	0.972	ug/l	97
12) 1,1-Dichloroethene	2.300	96	1723	1.010	ug/l #	80
14) Allyl chloride	2.654	41	2945	0.973	ug/l	98
15) Acrylonitrile	3.081	53	4889	4.029	ug/l	96
16) Acetone	2.392	43	5896	5.386	ug/l	98
17) Carbon Disulfide	2.495	76	3450	0.977	ug/l	95
18) Methyl Acetate	2.709	43	3137	0.954	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	6442	0.971	ug/l	99
20) Methylene Chloride	2.788	84	2497	1.167	ug/l	84
21) trans-1,2-Dichloroethene	3.087	96	1808	0.979	ug/l	88
22) Diisopropyl ether	3.776	45	5818	0.931	ug/l	97
23) Vinyl Acetate	3.727	43	21436	4.154	ug/l	98
24) 1,1-Dichloroethane	3.599	63	3565	1.012	ug/l #	91
25) 2-Butanone	4.593	43	6900	4.150	ug/l	100
26) 2,2-Dichloropropane	4.465	77	3002	1.182	ug/l	94
27) cis-1,2-Dichloroethene	4.489	96	2288	0.994	ug/l	95
28) Bromochloromethane	4.897	49	1656	0.950	ug/l #	68
29) Tetrahydrofuran	5.032	42	4543	4.185	ug/l #	84
30) Chloroform	5.093	83	3785	1.005	ug/l #	81
32) 1,1,1-Trichloroethane	5.373	97	3037	0.959	ug/l #	48
36) 1,1-Dichloropropene	5.702	75	2670	1.146	ug/l	91
37) Ethyl Acetate	4.757	43	3086m	0.970	ug/l	
38) Carbon Tetrachloride	5.660	117	2731	1.031	ug/l	98
39) Methylcyclohexane	7.379	83	2811	0.941	ug/l #	87
40) Benzene	6.050	78	7896	1.014	ug/l	97
41) Methacrylonitrile	4.995	41	1539m	0.962	ug/l	
42) 1,2-Dichloroethane	6.098	62	2692	0.939	ug/l	95
43) Isopropyl Acetate	6.367	43	4398	0.874	ug/l	96
44) Trichloroethene	7.135	130	1898	1.028	ug/l	70
45) 1,2-Dichloropropane	7.428	63	1935	1.017	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043556.D
 Acq On : 28 Oct 2024 10:59
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:30:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.592	93	1360	0.931	ug/l	88
47) Bromodichloromethane	7.824	83	2234	0.862	ug/l #	95
48) Methyl methacrylate	7.708	41	1889	0.804	ug/l #	84
49) 1,4-Dioxane	7.696	88	959	15.892	ug/l #	91
51) 4-Methyl-2-Pentanone	8.580	43	12287	3.855	ug/l	97
52) Toluene	8.720	92	4396	0.915	ug/l	96
53) t-1,3-Dichloropropene	8.988	75	2487	0.948	ug/l	90
54) cis-1,3-Dichloropropene	8.366	75	2324	0.807	ug/l #	87
55) 1,1,2-Trichloroethane	9.159	97	1879	0.927	ug/l #	85
56) Ethyl methacrylate	9.128	69	2799	0.855	ug/l	92
57) 1,3-Dichloropropane	9.311	76	2929	0.875	ug/l	95
58) 2-Chloroethyl Vinyl ether	8.251	63	6868	4.263	ug/l	93
59) 2-Hexanone	9.445	43	9840	4.082	ug/l	93
60) Dibromochloromethane	9.519	129	1531	0.807	ug/l	92
61) 1,2-Dibromoethane	9.616	107	1856	0.908	ug/l	98
64) Tetrachloroethene	9.275	164	1707	1.075	ug/l #	82
65) Chlorobenzene	10.079	112	5570	1.056	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.165	131	1525	0.856	ug/l #	60
67) Ethyl Benzene	10.195	91	8911	1.015	ug/l	95
68) m/p-Xylenes	10.305	106	6344	1.908	ug/l	96
69) o-Xylene	10.640	106	3125	0.914	ug/l	91
70) Styrene	10.659	104	5108	0.923	ug/l	95
71) Bromoform	10.805	173	1032	0.859	ug/l #	94
73) Isopropylbenzene	10.963	105	7996	0.985	ug/l	100
74) N-amyl acetate	10.848	43	3739	0.915	ug/l #	89
75) 1,1,2,2-Tetrachloroethane	11.213	83	2747	0.884	ug/l	99
76) 1,2,3-Trichloropropane	11.244	75	2108m	0.799	ug/l	
77) Bromobenzene	11.201	156	2093	1.010	ug/l	98
78) n-propylbenzene	11.305	91	8350	0.966	ug/l	98
79) 2-Chlorotoluene	11.366	91	6183	1.066	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	6268	0.930	ug/l	98
82) 4-Chlorotoluene	11.457	91	6699	1.043	ug/l	95
83) tert-Butylbenzene	11.713	119	6551	0.953	ug/l	94
84) 1,2,4-Trimethylbenzene	11.756	105	6312	0.916	ug/l	95
85) sec-Butylbenzene	11.890	105	7481	0.940	ug/l	99
86) p-Isopropyltoluene	12.012	119	6224	0.944	ug/l	95
87) 1,3-Dichlorobenzene	11.969	146	3734	1.005	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	4352m	1.162	ug/l	
89) n-Butylbenzene	12.335	91	4807	0.899	ug/l	93
90) Hexachloroethane	12.530	117	926	0.868	ug/l	82
91) 1,2-Dichlorobenzene	12.335	146	3719	0.970	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	519	0.785	ug/l	89
93) 1,2,4-Trichlorobenzene	13.591	180	1965	0.876	ug/l	96
94) Hexachlorobutadiene	13.725	225	889	1.119	ug/l	86
95) Naphthalene	13.780	128	7377	0.801	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	2215	0.943	ug/l	96

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

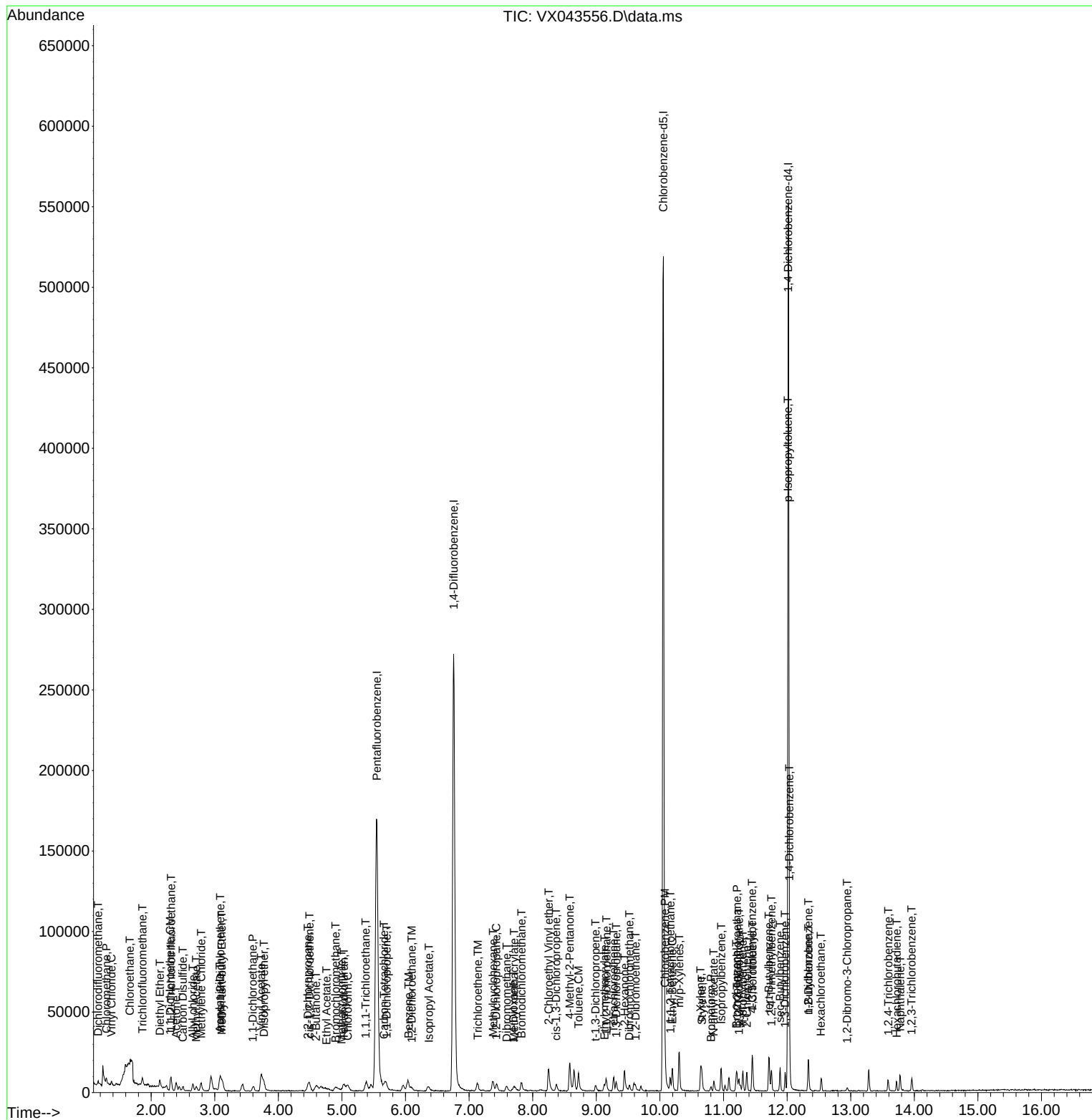
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043556.D
Acq On : 28 Oct 2024 10:59
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:30:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043557.D
 Acq On : 28 Oct 2024 11:22
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:30:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	155093	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	287211	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	250063	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	111781	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	13988	5.686	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.380%#		
35) Dibromofluoromethane	5.385	113	10276	5.373	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.740%#		
50) Toluene-d8	8.647	98	36059	5.438	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.880%#		
62) 4-Bromofluorobenzene	11.079	95	12799	5.284	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	10.560%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	8579	4.962	ug/l	96
3) Chloromethane	1.295	50	10900	4.942	ug/l	95
4) Vinyl Chloride	1.374	62	10451	5.202	ug/l	99
5) Bromomethane	1.599	94	4136	5.271	ug/l	92
6) Chloroethane	1.660	64	3330	5.066	ug/l #	82
7) Trichlorofluoromethane	1.861	101	12037	4.565	ug/l	96
8) Diethyl Ether	2.136	74	5822	5.055	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.313	101	8472	5.091	ug/l	98
10) Methyl Iodide	2.441	142	11260	4.886	ug/l	100
11) Tert butyl alcohol	3.038	59	10188	19.389	ug/l #	100
12) 1,1-Dichloroethene	2.300	96	8606	5.260	ug/l	91
13) Acrolein	2.239	56	9609	23.207	ug/l	99
14) Allyl chloride	2.654	41	13656	4.703	ug/l	96
15) Acrylonitrile	3.075	53	25966	22.307	ug/l	99
16) Acetone	2.392	43	24830	23.644	ug/l	99
17) Carbon Disulfide	2.496	76	15112	4.462	ug/l #	95
18) Methyl Acetate	2.709	43	14366	4.552	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	31411	4.934	ug/l	99
20) Methylene Chloride	2.782	84	10845	5.284	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	8639	4.877	ug/l	95
22) Diisopropyl ether	3.764	45	30888	5.154	ug/l #	86
23) Vinyl Acetate	3.721	43	119942	24.227	ug/l	98
24) 1,1-Dichloroethane	3.605	63	17144	5.072	ug/l	98
25) 2-Butanone	4.581	43	35818	22.456	ug/l	98
26) 2,2-Dichloropropane	4.471	77	14180	5.820	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	11158	5.055	ug/l	98
28) Bromochloromethane	4.904	49	8209	4.909	ug/l	97
29) Tetrahydrofuran	5.026	42	23624	22.684	ug/l	97
30) Chloroform	5.093	83	18141	5.019	ug/l	95
31) Cyclohexane	5.458	56	13335	4.972	ug/l	88
32) 1,1,1-Trichloroethane	5.379	97	14721	4.846	ug/l	98
36) 1,1-Dichloropropene	5.690	75	11382	5.029	ug/l	98
37) Ethyl Acetate	4.733	43	11948	3.868	ug/l #	94
38) Carbon Tetrachloride	5.672	117	12706	4.940	ug/l	99
39) Methylcyclohexane	7.379	83	14623	5.038	ug/l	94
40) Benzene	6.038	78	40098	5.300	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043557.D
 Acq On : 28 Oct 2024 11:22
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:30:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	6345	4.083	ug/l #	81
42) 1,2-Dichloroethane	6.092	62	14018	5.037	ug/l	99
43) Isopropyl Acetate	6.355	43	23242	4.756	ug/l	99
44) Trichloroethene	7.123	130	9917	5.528	ug/l	93
45) 1,2-Dichloropropane	7.434	63	9734	5.268	ug/l	91
46) Dibromomethane	7.586	93	7576	5.337	ug/l	96
47) Bromodichloromethane	7.818	83	11922	4.735	ug/l	99
48) Methyl methacrylate	7.702	41	10543	4.621	ug/l	95
49) 1,4-Dioxane	7.690	88	4322	73.737	ug/l	88
51) 4-Methyl-2-Pentanone	8.580	43	71301	23.028	ug/l	98
52) Toluene	8.720	92	23888	5.121	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	12164	4.773	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	14227	5.084	ug/l	93
55) 1,1,2-Trichloroethane	9.153	97	9807	4.982	ug/l	97
56) Ethyl methacrylate	9.122	69	14989	4.712	ug/l	99
57) 1,3-Dichloropropane	9.311	76	16567	5.097	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.245	63	36952	23.613	ug/l	98
59) 2-Hexanone	9.439	43	52944	22.614	ug/l	99
60) Dibromochloromethane	9.519	129	8314	4.514	ug/l	96
61) 1,2-Dibromoethane	9.610	107	10094	5.087	ug/l	98
64) Tetrachloroethene	9.275	164	8068	5.154	ug/l	91
65) Chlorobenzene	10.080	112	27763	5.337	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	8622	4.907	ug/l	96
67) Ethyl Benzene	10.195	91	44094	5.095	ug/l	98
68) m/p-Xylenes	10.299	106	33988	10.367	ug/l	96
69) o-Xylene	10.640	106	17462	5.181	ug/l	98
70) Styrene	10.659	104	26381	4.836	ug/l	96
71) Bromoform	10.799	173	5147	4.345	ug/l #	98
73) Isopropylbenzene	10.964	105	41185	5.155	ug/l	99
74) N-amyl acetate	10.848	43	19116	4.750	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	15141	4.947	ug/l	95
76) 1,2,3-Trichloropropane	11.238	75	13527m	5.206	ug/l	
77) Bromobenzene	11.201	156	10564	5.179	ug/l	97
78) n-propylbenzene	11.305	91	42687	5.013	ug/l	99
79) 2-Chlorotoluene	11.366	91	29923	5.237	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	34706	5.232	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	3243	3.808	ug/l #	82
82) 4-Chlorotoluene	11.457	91	32648	5.163	ug/l	98
83) tert-Butylbenzene	11.713	119	34653	5.122	ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	34775	5.125	ug/l	98
85) sec-Butylbenzene	11.890	105	39786	5.078	ug/l	99
86) p-Isopropyltoluene	12.006	119	33359	5.139	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	18951	5.178	ug/l	98
88) 1,4-Dichlorobenzene	12.043	146	19222	5.210	ug/l	93
89) n-Butylbenzene	12.329	91	24922	4.736	ug/l	98
90) Hexachloroethane	12.536	117	4704	4.480	ug/l	91
91) 1,2-Dichlorobenzene	12.335	146	19394	5.139	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	2456	3.771	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	11267	5.098	ug/l	98
94) Hexachlorobutadiene	13.725	225	4097	5.239	ug/l	96
95) Naphthalene	13.774	128	41834	4.613	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	11815	5.110	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043557.D
Acq On : 28 Oct 2024 11:22
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:30:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

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

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

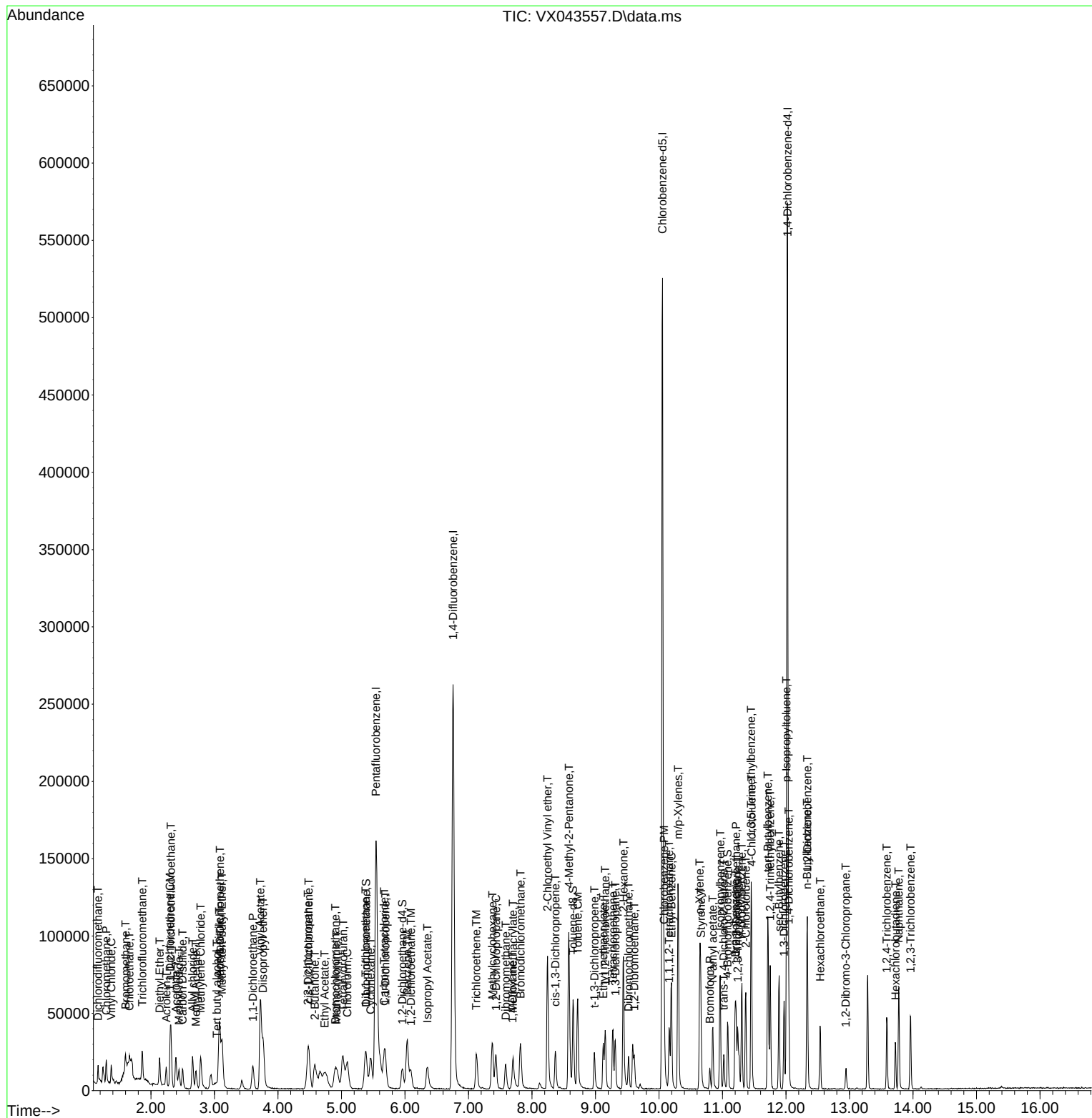
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043557.D
Acq On : 28 Oct 2024 11:22
Operator : JC/MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:30:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043558.D
 Acq On : 28 Oct 2024 11:45
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	159966	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	291315	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	254622	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	119710	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	50818	20.026	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	40.060%#		
35) Dibromofluoromethane	5.385	113	39238	20.228	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.460%#		
50) Toluene-d8	8.647	98	140572	20.900	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	41.800%#		
62) 4-Bromofluorobenzene	11.079	95	50243	20.452	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	40.900%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	35334	19.816	ug/l	97
3) Chloromethane	1.294	50	43361	19.061	ug/l	99
4) Vinyl Chloride	1.374	62	40804	19.692	ug/l	99
5) Bromomethane	1.599	94	15764	19.478	ug/l	94
6) Chloroethane	1.666	64	13552	19.988	ug/l	100
7) Trichlorofluoromethane	1.861	101	45410	16.698	ug/l	99
8) Diethyl Ether	2.136	74	22721	19.128	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	33400	19.458	ug/l	98
10) Methyl Iodide	2.441	142	48753	20.510	ug/l	97
11) Tert butyl alcohol	3.050	59	42004m	77.502	ug/l	
12) 1,1-Dichloroethene	2.300	96	33343	19.757	ug/l	98
13) Acrolein	2.239	56	38776	90.794	ug/l	99
14) Allyl chloride	2.654	41	57560	19.220	ug/l	99
15) Acrylonitrile	3.075	53	105959	88.256	ug/l	98
16) Acetone	2.398	43	93987	86.771	ug/l	99
17) Carbon Disulfide	2.495	76	64452	18.450	ug/l	100
18) Methyl Acetate	2.709	43	56319	17.301	ug/l	98
19) Methyl tert-butyl Ether	3.123	73	130430	19.863	ug/l	96
20) Methylene Chloride	2.782	84	42392	20.027	ug/l	94
21) trans-1,2-Dichloroethene	3.081	96	36925	20.210	ug/l	97
22) Diisopropyl ether	3.770	45	126839	20.521	ug/l	93
23) Vinyl Acetate	3.721	43	514244	100.709	ug/l	99
24) 1,1-Dichloroethane	3.605	63	70569	20.241	ug/l	98
25) 2-Butanone	4.574	43	146114	88.817	ug/l	98
26) 2,2-Dichloropropane	4.465	77	57622	22.931	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	45798	20.118	ug/l	99
28) Bromochloromethane	4.897	49	33980	19.701	ug/l	100
29) Tetrahydrofuran	5.013	42	95553	88.955	ug/l	100
30) Chloroform	5.086	83	74554	19.996	ug/l	95
31) Cyclohexane	5.464	56	56622	20.469	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	62556	19.966	ug/l	98
36) 1,1-Dichloropropene	5.684	75	47520	20.699	ug/l	99
37) Ethyl Acetate	4.727	43	58054	18.528	ug/l	100
38) Carbon Tetrachloride	5.666	117	49282	18.891	ug/l	96
39) Methylcyclohexane	7.373	83	59999	20.379	ug/l	98
40) Benzene	6.031	78	161123	20.995	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043558.D
 Acq On : 28 Oct 2024 11:45
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	30325	19.241	ug/l	95
42) 1,2-Dichloroethane	6.086	62	58281	20.645	ug/l	99
43) Isopropyl Acetate	6.348	43	92676	18.698	ug/l	98
44) Trichloroethene	7.123	130	39344	21.623	ug/l	94
45) 1,2-Dichloropropane	7.427	63	37857	20.200	ug/l	93
46) Dibromomethane	7.580	93	30097	20.905	ug/l	99
47) Bromodichloromethane	7.824	83	50694	19.849	ug/l	100
48) Methyl methacrylate	7.696	41	45592	19.703	ug/l	99
49) 1,4-Dioxane	7.683	88	15361	258.381	ug/l #	75
51) 4-Methyl-2-Pentanone	8.580	43	295125	93.974	ug/l	100
52) Toluene	8.720	92	100958	21.337	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	56483	21.853	ug/l	96
54) cis-1,3-Dichloropropene	8.366	75	62338	21.962	ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	40197	20.132	ug/l	99
56) Ethyl methacrylate	9.116	69	65359	20.255	ug/l	97
57) 1,3-Dichloropropane	9.305	76	68675	20.831	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	167179	105.324	ug/l	98
59) 2-Hexanone	9.433	43	221604	93.320	ug/l	100
60) Dibromochloromethane	9.519	129	38713	20.721	ug/l	99
61) 1,2-Dibromoethane	9.610	107	42059	20.896	ug/l	97
64) Tetrachloroethene	9.269	164	33267	20.871	ug/l	90
65) Chlorobenzene	10.079	112	110251	20.814	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.165	131	35663	19.934	ug/l	98
67) Ethyl Benzene	10.189	91	183192	20.790	ug/l	98
68) m/p-Xylenes	10.299	106	144291	43.222	ug/l	96
69) o-Xylene	10.640	106	71049	20.704	ug/l	98
70) Styrene	10.652	104	119564	21.527	ug/l	100
71) Bromoform	10.799	173	23453	19.445	ug/l #	98
73) Isopropylbenzene	10.963	105	177401	20.733	ug/l	99
74) N-amyl acetate	10.841	43	83132	19.288	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	63016	19.225	ug/l	97
76) 1,2,3-Trichloropropane	11.238	75	55850m	20.069	ug/l	
77) Bromobenzene	11.195	156	44364	20.310	ug/l	98
78) n-propylbenzene	11.305	91	194707	21.351	ug/l	100
79) 2-Chlorotoluene	11.366	91	126983	20.753	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	149254	21.008	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	17057	18.703	ug/l	96
82) 4-Chlorotoluene	11.451	91	140875	20.804	ug/l	98
83) tert-Butylbenzene	11.713	119	150766	20.809	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	152608	21.002	ug/l	99
85) sec-Butylbenzene	11.890	105	178042	21.218	ug/l	98
86) p-Isopropyltoluene	12.006	119	149537	21.511	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	78867	20.122	ug/l	100
88) 1,4-Dichlorobenzene	12.042	146	81095	20.525	ug/l	99
89) n-Butylbenzene	12.329	91	120461	21.375	ug/l	99
90) Hexachloroethane	12.536	117	22769	20.246	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	81283	20.112	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	12277	17.603	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	47851	20.219	ug/l	99
94) Hexachlorobutadiene	13.725	225	18082	21.589	ug/l	97
95) Naphthalene	13.774	128	191837	19.754	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	51568	20.826	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043558.D
Acq On : 28 Oct 2024 11:45
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

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

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

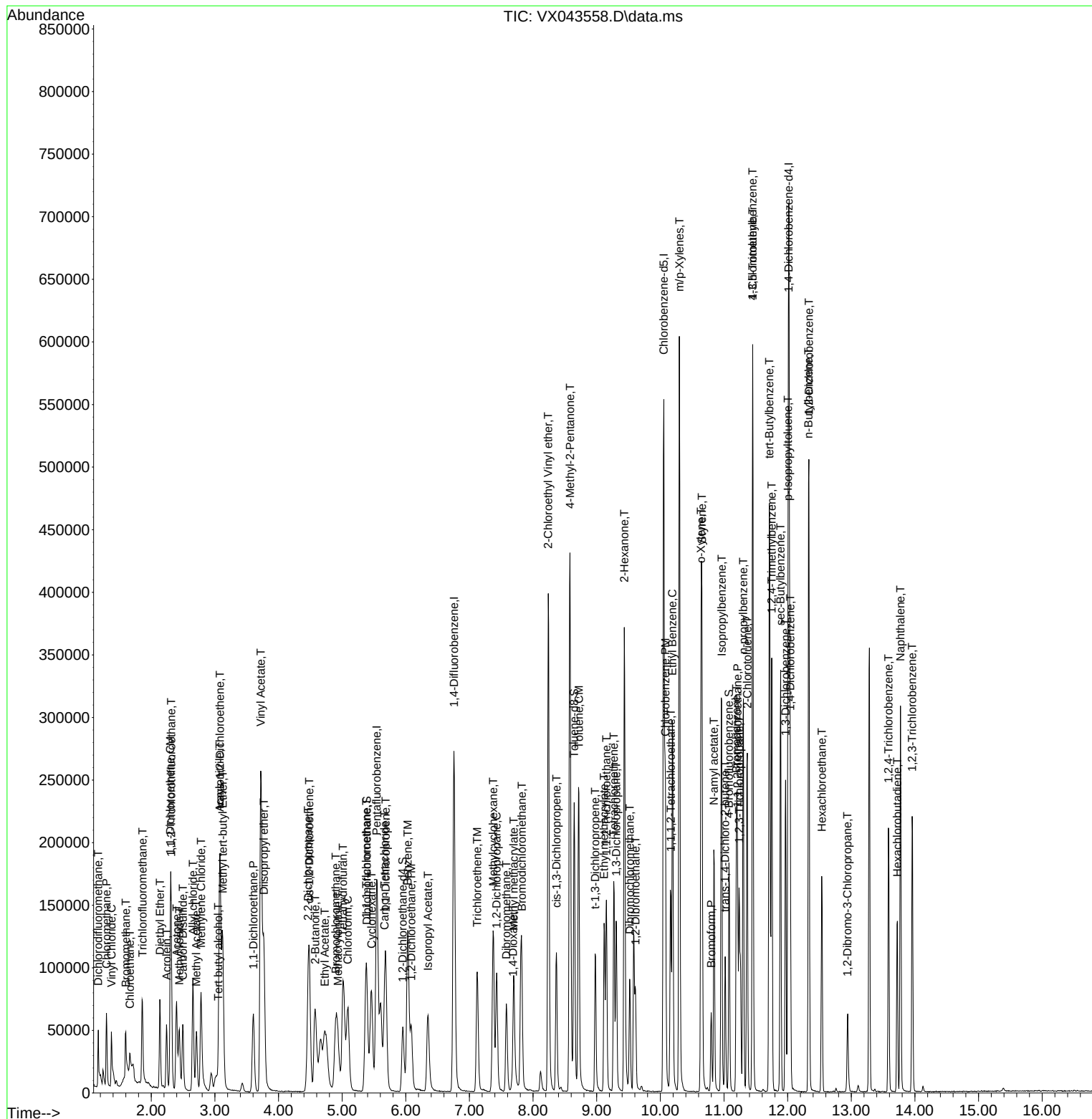
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043558.D
Acq On : 28 Oct 2024 11:45
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043559.D
 Acq On : 28 Oct 2024 12:08
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	148919	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	270771	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	238342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	114709	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	116854	49.466	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.940%		
35) Dibromofluoromethane	5.379	113	91079	50.516	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.040%		
50) Toluene-d8	8.647	98	318252	50.907	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.820%		
62) 4-Bromofluorobenzene	11.079	95	120225	52.651	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	105.300%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	75417	45.433	ug/l	96
3) Chloromethane	1.294	50	96896	45.755	ug/l	99
4) Vinyl Chloride	1.374	62	94488	48.982	ug/l	99
5) Bromomethane	1.593	94	38969	51.722	ug/l	98
6) Chloroethane	1.666	64	33540	53.137	ug/l	99
7) Trichlorofluoromethane	1.867	101	116013	45.825	ug/l	98
8) Diethyl Ether	2.136	74	52937	47.871	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.312	101	78193	48.932	ug/l	99
10) Methyl Iodide	2.440	142	116521	52.655	ug/l	99
11) Tert butyl alcohol	3.014	59	116081m	230.069	ug/l	
12) 1,1-Dichloroethene	2.306	96	79758	50.765	ug/l	93
13) Acrolein	2.239	56	80960	203.631	ug/l	98
14) Allyl chloride	2.654	41	141976	50.925	ug/l	98
15) Acrylonitrile	3.068	53	259325	232.022	ug/l	100
16) Acetone	2.392	43	232587	230.659	ug/l	100
17) Carbon Disulfide	2.501	76	168807	51.908	ug/l	100
18) Methyl Acetate	2.709	43	137905	45.505	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	309762	50.673	ug/l	98
20) Methylene Chloride	2.782	84	98700	50.086	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	83735	49.229	ug/l	98
22) Diisopropyl ether	3.763	45	290506	50.487	ug/l	97
23) Vinyl Acetate	3.721	43	1256555	264.336	ug/l	99
24) 1,1-Dichloroethane	3.605	63	165218	50.903	ug/l	98
25) 2-Butanone	4.568	43	359526	234.753	ug/l	100
26) 2,2-Dichloropropane	4.465	77	132434	56.613	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	110158	51.979	ug/l	99
28) Bromochloromethane	4.897	49	75534	47.042	ug/l	98
29) Tetrahydrofuran	5.013	42	230616	230.617	ug/l	100
30) Chloroform	5.086	83	173217	49.905	ug/l	97
31) Cyclohexane	5.464	56	124896	48.500	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	146876	50.355	ug/l	98
36) 1,1-Dichloropropene	5.690	75	105059	49.233	ug/l	98
37) Ethyl Acetate	4.714	43	136901	47.008	ug/l	99
38) Carbon Tetrachloride	5.672	117	120318	49.620	ug/l	98
39) Methylcyclohexane	7.379	83	138062	50.451	ug/l	95
40) Benzene	6.031	78	366906	51.436	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043559.D
 Acq On : 28 Oct 2024 12:08
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	73294	50.034	ug/l	96
42) 1,2-Dichloroethane	6.086	62	133953	51.050	ug/l	99
43) Isopropyl Acetate	6.342	43	226323	49.127	ug/l	99
44) Trichloroethene	7.123	130	91422	54.057	ug/l	91
45) 1,2-Dichloropropane	7.427	63	91389	52.464	ug/l	99
46) Dibromomethane	7.580	93	70386	52.600	ug/l	98
47) Bromodichloromethane	7.818	83	129022	54.350	ug/l	95
48) Methyl methacrylate	7.696	41	108981	50.670	ug/l	99
49) 1,4-Dioxane	7.671	88	44516	805.596	ug/l	94
51) 4-Methyl-2-Pentanone	8.574	43	710786	243.501	ug/l	99
52) Toluene	8.714	92	227004	51.617	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	137951	57.422	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	147056	55.739	ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	96225	51.848	ug/l	99
56) Ethyl methacrylate	9.116	69	159817	53.285	ug/l	98
57) 1,3-Dichloropropane	9.305	76	159890	52.178	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	362792	245.903	ug/l	98
59) 2-Hexanone	9.433	43	541763	245.453	ug/l	99
60) Dibromochloromethane	9.518	129	99435	57.260	ug/l	99
61) 1,2-Dibromoethane	9.610	107	99405	53.133	ug/l	98
64) Tetrachloroethene	9.275	164	73551	49.296	ug/l	94
65) Chlorobenzene	10.079	112	256218	51.676	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	88746	52.993	ug/l	99
67) Ethyl Benzene	10.195	91	423515	51.347	ug/l	98
68) m/p-Xylenes	10.299	106	329261	105.366	ug/l	98
69) o-Xylene	10.640	106	164266	51.137	ug/l	99
70) Styrene	10.652	104	281883	54.218	ug/l	99
71) Bromoform	10.799	173	65582	58.090	ug/l #	99
73) Isopropylbenzene	10.963	105	408411	49.811	ug/l	100
74) N-amyl acetate	10.841	43	203333	49.234	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	148153	47.168	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	122864m	46.074	ug/l	
77) Bromobenzene	11.195	156	106088	50.684	ug/l	100
78) n-propylbenzene	11.305	91	457180	52.320	ug/l	99
79) 2-Chlorotoluene	11.366	91	288711	49.242	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	348498	51.192	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	47974	54.897	ug/l	95
82) 4-Chlorotoluene	11.451	91	331765	51.131	ug/l	97
83) tert-Butylbenzene	11.713	119	348856	50.250	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	355522	51.061	ug/l	100
85) sec-Butylbenzene	11.890	105	417787	51.960	ug/l	100
86) p-Isopropyltoluene	12.006	119	358049	53.750	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	188818	50.274	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	189658	50.095	ug/l	100
89) n-Butylbenzene	12.329	91	299842	55.523	ug/l	100
90) Hexachloroethane	12.536	117	59554	55.265	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	198010	51.130	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	32185	48.159	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	123940	54.653	ug/l	99
94) Hexachlorobutadiene	13.725	225	42766	53.286	ug/l	97
95) Naphthalene	13.774	128	473262	50.857	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	126296	53.229	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043559.D
Acq On : 28 Oct 2024 12:08
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

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

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

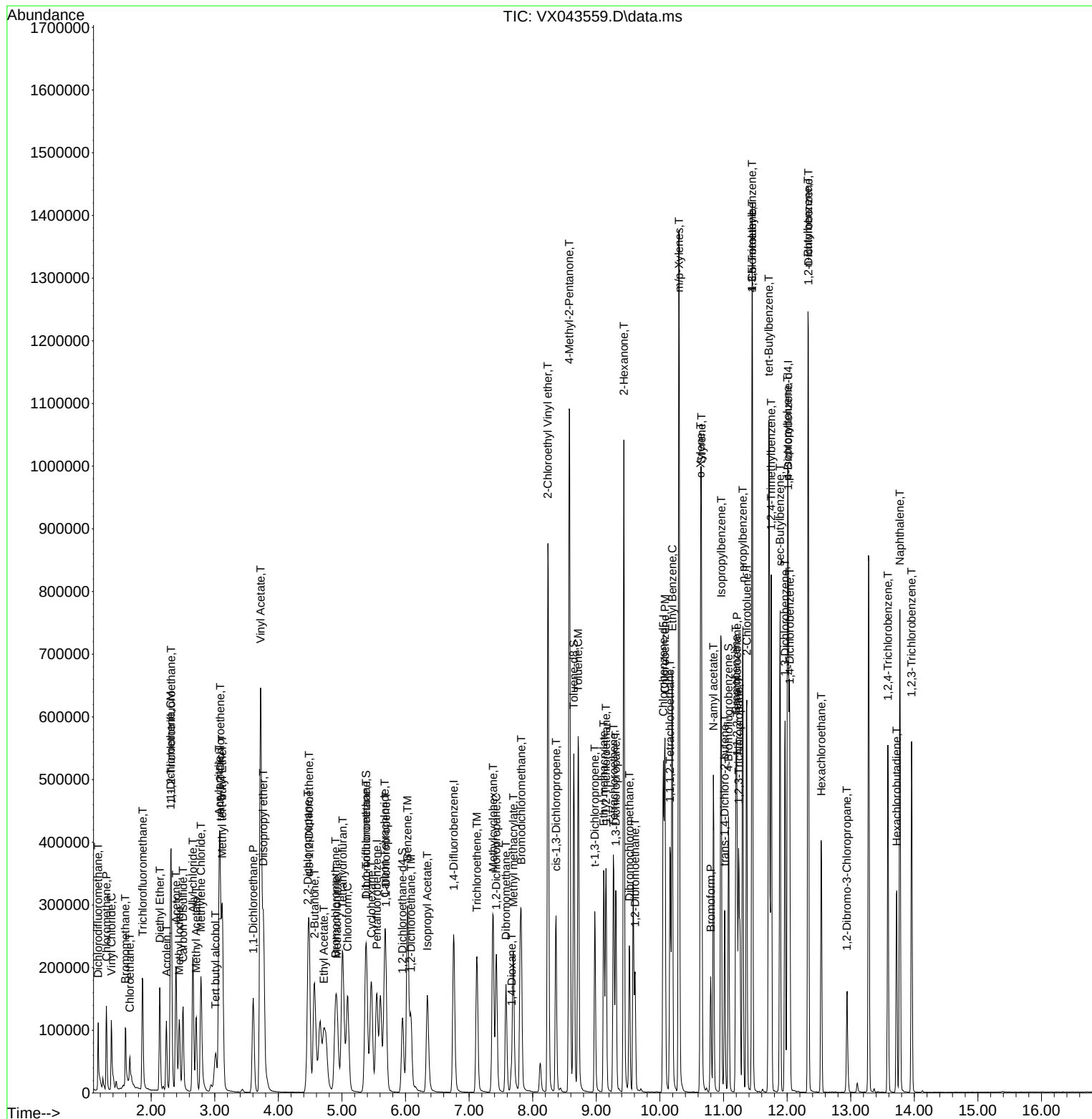
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043559.D
Acq On : 28 Oct 2024 12:08
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043560.D
 Acq On : 28 Oct 2024 12:31
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	144332	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	265513	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	230783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	112136	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	222471	97.169	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 194.340%#			
35) Dibromofluoromethane	5.379	113	181437	102.625	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 205.240%#			
50) Toluene-d8	8.647	98	615421	100.391	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 200.780%#			
62) 4-Bromofluorobenzene	11.079	95	233193	104.146	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 208.300%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	150686	93.662	ug/l	95
3) Chloromethane	1.294	50	191165	93.138	ug/l	99
4) Vinyl Chloride	1.374	62	185746	99.351	ug/l	99
5) Bromomethane	1.593	94	75100	102.844	ug/l	99
6) Chloroethane	1.660	64	62560	102.264	ug/l	97
7) Trichlorofluoromethane	1.861	101	244340	99.580	ug/l	99
8) Diethyl Ether	2.136	74	109025	101.725	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	155594	100.462	ug/l	98
10) Methyl Iodide	2.440	142	227894	106.257	ug/l	99
11) Tert butyl alcohol	3.038	59	245468	501.973	ug/l #	100
12) 1,1-Dichloroethene	2.306	96	160565	105.446	ug/l	96
13) Acrolein	2.239	56	168697	437.793	ug/l	99
14) Allyl chloride	2.654	41	289621	107.186	ug/l	97
15) Acrylonitrile	3.068	53	518888	479.012	ug/l	100
16) Acetone	2.392	43	452601	463.114	ug/l	100
17) Carbon Disulfide	2.495	76	378228	120.001	ug/l	100
18) Methyl Acetate	2.709	43	272708	92.847	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	602114	101.628	ug/l	99
20) Methylene Chloride	2.782	84	191848	100.449	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	171404	103.973	ug/l	97
22) Diisopropyl ether	3.763	45	560616	100.525	ug/l	94
23) Vinyl Acetate	3.721	43	2462441	534.476	ug/l	98
24) 1,1-Dichloroethane	3.605	63	327525	104.117	ug/l	99
25) 2-Butanone	4.562	43	698547	470.613	ug/l	98
26) 2,2-Dichloropropane	4.471	77	267036	117.781	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	215682	105.006	ug/l	99
28) Bromochloromethane	4.897	49	157450	101.175	ug/l	99
29) Tetrahydrofuran	5.013	42	449999	464.302	ug/l	99
30) Chloroform	5.092	83	336574	100.052	ug/l	98
31) Cyclohexane	5.458	56	247431	99.138	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	294454	104.159	ug/l	99
36) 1,1-Dichloropropene	5.684	75	212326	101.472	ug/l	98
37) Ethyl Acetate	4.714	43	266903	93.461	ug/l	99
38) Carbon Tetrachloride	5.672	117	246999	103.882	ug/l	100
39) Methylcyclohexane	7.373	83	272092	101.398	ug/l	98
40) Benzene	6.031	78	707594	101.161	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043560.D
 Acq On : 28 Oct 2024 12:31
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	143117	99.633	ug/l	96
42) 1,2-Dichloroethane	6.086	62	259548	100.874	ug/l	100
43) Isopropyl Acetate	6.342	43	448588	99.301	ug/l	99
44) Trichloroethene	7.123	130	180958	109.118	ug/l	96
45) 1,2-Dichloropropane	7.427	63	176748	103.475	ug/l	99
46) Dibromomethane	7.580	93	138874	105.836	ug/l	99
47) Bromodichloromethane	7.818	83	262652	112.832	ug/l	97
48) Methyl methacrylate	7.696	41	218800	103.744	ug/l	99
49) 1,4-Dioxane	7.677	88	102152	1885.231	ug/l	99
51) 4-Methyl-2-Pentanone	8.580	43	1374233	480.107	ug/l	99
52) Toluene	8.714	92	441311	102.334	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	279431	118.617	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	297464	114.982	ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	183182	100.657	ug/l	99
56) Ethyl methacrylate	9.116	69	312479	106.248	ug/l	96
57) 1,3-Dichloropropane	9.305	76	305650	101.720	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	741765	512.729	ug/l	98
59) 2-Hexanone	9.433	43	1039956	480.496	ug/l	98
60) Dibromochloromethane	9.518	129	205615	120.749	ug/l	99
61) 1,2-Dibromoethane	9.610	107	196009	106.844	ug/l	97
64) Tetrachloroethene	9.269	164	142187	98.420	ug/l	99
65) Chlorobenzene	10.079	112	498984	103.935	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.165	131	175902	108.478	ug/l	99
67) Ethyl Benzene	10.195	91	828264	103.708	ug/l	100
68) m/p-Xylenes	10.299	106	638308	210.954	ug/l	97
69) o-Xylene	10.640	106	322030	103.533	ug/l	98
70) Styrene	10.652	104	548708	108.997	ug/l	99
71) Bromoform	10.799	173	140298	128.340	ug/l #	99
73) Isopropylbenzene	10.963	105	796019	99.313	ug/l	100
74) N-amyl acetate	10.841	43	398918	98.808	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	286258	93.228	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	233884m	89.719	ug/l	
77) Bromobenzene	11.195	156	206774	101.054	ug/l	99
78) n-propylbenzene	11.305	91	894162	104.676	ug/l	99
79) 2-Chlorotoluene	11.366	91	560554	97.800	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	669305	100.572	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	100171	117.256	ug/l	90
82) 4-Chlorotoluene	11.451	91	647524	102.085	ug/l	98
83) tert-Butylbenzene	11.713	119	688015	101.376	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	684269	100.532	ug/l	99
85) sec-Butylbenzene	11.890	105	808247	102.828	ug/l	98
86) p-Isopropyltoluene	12.006	119	703703	108.063	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	370986	101.044	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	371529	100.386	ug/l	99
89) n-Butylbenzene	12.329	91	602601	114.147	ug/l	99
90) Hexachloroethane	12.536	117	125658	119.283	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	375640	99.223	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	65340	100.012	ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	246552	111.215	ug/l	100
94) Hexachlorobutadiene	13.725	225	87749	111.843	ug/l	98
95) Naphthalene	13.774	128	948508	104.267	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	256915	110.764	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043560.D
Acq On : 28 Oct 2024 12:31
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

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

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

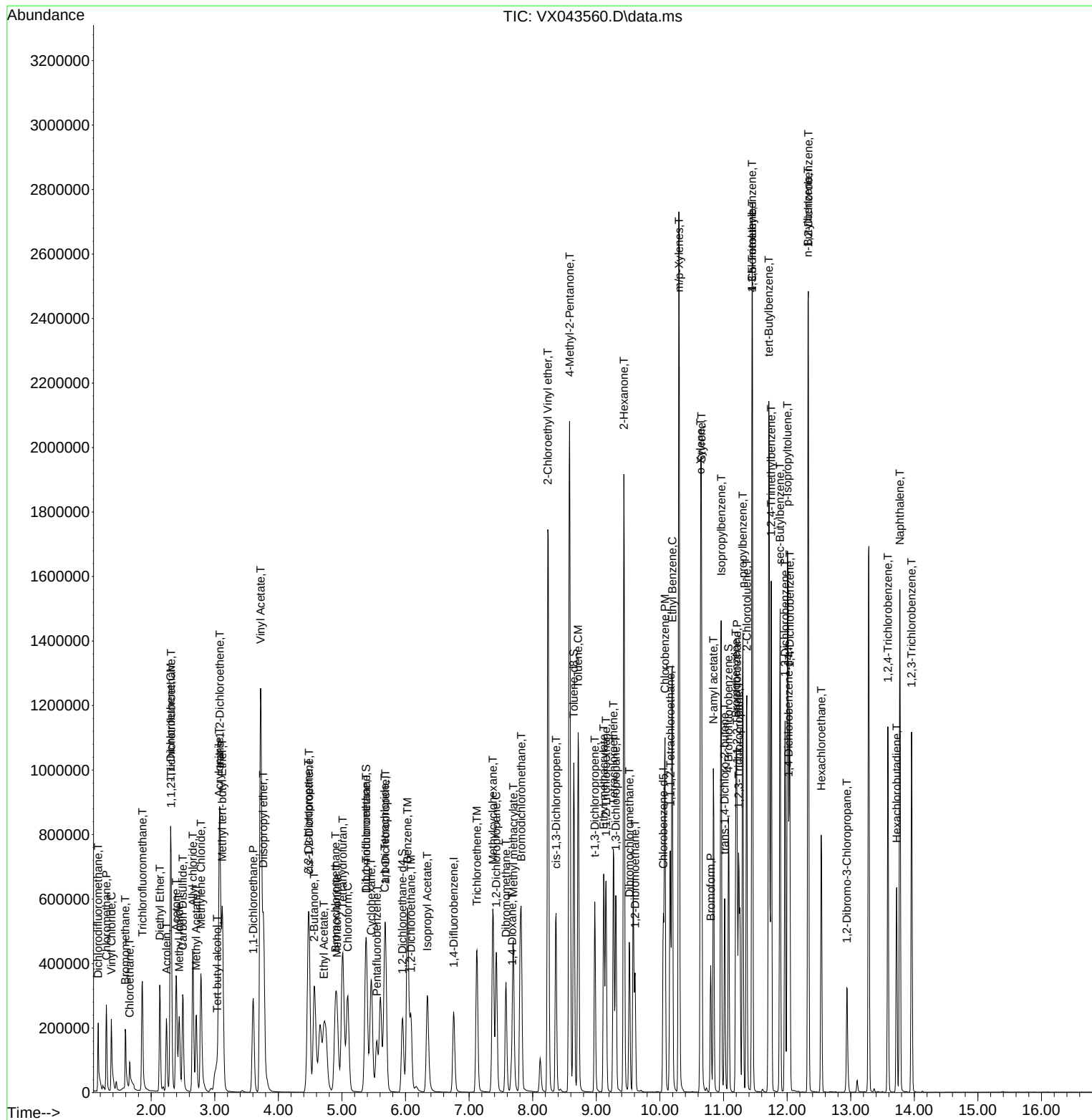
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Data File : VX043560.D
Acq On : 28 Oct 2024 12:31
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043561.D
 Acq On : 28 Oct 2024 12:54
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	144618	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	264800	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	232776	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	112300	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	318806	138.969	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 277.940%#			
35) Dibromofluoromethane	5.385	113	256339	145.381	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 290.760%#			
50) Toluene-d8	8.647	98	851731	139.313	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 278.620%#			
62) 4-Bromofluorobenzene	11.079	95	329323	147.475	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 294.940%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	210421	130.533	ug/l	99
3) Chloromethane	1.295	50	265669	129.182	ug/l	100
4) Vinyl Chloride	1.374	62	256442	136.893	ug/l	98
5) Bromomethane	1.593	94	112014	153.092	ug/l	95
6) Chloroethane	1.660	64	90954	148.384	ug/l	100
7) Trichlorofluoromethane	1.861	101	310596	126.333	ug/l	100
8) Diethyl Ether	2.136	74	151359	140.945	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.313	101	212838	137.151	ug/l	99
10) Methyl Iodide	2.441	142	315072	146.614	ug/l	98
11) Tert butyl alcohol	3.026	59	337112	688.018	ug/l #	100
12) 1,1-Dichloroethene	2.307	96	222500	145.831	ug/l	96
13) Acrolein	2.239	56	241097	624.444	ug/l	98
14) Allyl chloride	2.654	41	395090	145.930	ug/l	98
15) Acrylonitrile	3.069	53	736707	678.747	ug/l	99
16) Acetone	2.392	43	639840	653.408	ug/l	99
17) Carbon Disulfide	2.495	76	532448	168.596	ug/l	99
18) Methyl Acetate	2.709	43	392340	133.313	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	867383	146.111	ug/l	97
20) Methylene Chloride	2.782	84	274424	143.401	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	236759	143.334	ug/l	97
22) Diisopropyl ether	3.764	45	790777	141.515	ug/l	96
23) Vinyl Acetate	3.721	43	3509530	760.241	ug/l	99
24) 1,1-Dichloroethane	3.605	63	454844	144.305	ug/l	99
25) 2-Butanone	4.568	43	995055	669.046	ug/l	99
26) 2,2-Dichloropropane	4.471	77	367692	161.856	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	306808	149.076	ug/l	98
28) Bromochloromethane	4.898	49	223906	143.593	ug/l	99
29) Tetrahydrofuran	5.013	42	639748	658.777	ug/l	99
30) Chloroform	5.093	83	471770	139.964	ug/l	99
31) Cyclohexane	5.458	56	333317	133.285	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	407373	143.818	ug/l	99
36) 1,1-Dichloropropene	5.684	75	292944	140.377	ug/l	99
37) Ethyl Acetate	4.721	43	384683	135.067	ug/l	99
38) Carbon Tetrachloride	5.672	117	340536	143.607	ug/l	98
39) Methylcyclohexane	7.379	83	375923	140.469	ug/l	98
40) Benzene	6.031	78	989523	141.848	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043561.D
 Acq On : 28 Oct 2024 12:54
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:29:33 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	203044	141.732	ug/l	96
42) 1,2-Dichloroethane	6.086	62	370244	144.284	ug/l	99
43) Isopropyl Acetate	6.342	43	646810	143.566	ug/l	99
44) Trichloroethene	7.123	130	251726	152.200	ug/l	96
45) 1,2-Dichloropropane	7.428	63	254281	149.267	ug/l	99
46) Dibromomethane	7.580	93	200317	153.073	ug/l	98
47) Bromodichloromethane	7.818	83	379264	163.366	ug/l	99
48) Methyl methacrylate	7.696	41	320841	152.537	ug/l	98
49) 1,4-Dioxane	7.671	88	113004	2091.122	ug/l	99
51) 4-Methyl-2-Pentanone	8.580	43	1948870	682.697	ug/l	99
52) Toluene	8.714	92	611241	142.120	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	405296	172.509	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	426054	165.131	ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	259723	143.100	ug/l	99
56) Ethyl methacrylate	9.116	69	449693	153.315	ug/l	97
57) 1,3-Dichloropropane	9.305	76	437811	146.096	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	1091414	756.448	ug/l	98
59) 2-Hexanone	9.433	43	1462736	677.655	ug/l	98
60) Dibromochloromethane	9.519	129	299138	176.144	ug/l	99
61) 1,2-Dibromoethane	9.610	107	275091	150.355	ug/l	99
64) Tetrachloroethene	9.269	164	198596	136.289	ug/l	95
65) Chlorobenzene	10.080	112	703451	145.269	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	250797	153.341	ug/l	100
67) Ethyl Benzene	10.195	91	1141257	141.675	ug/l	100
68) m/p-Xylenes	10.299	106	878867	287.969	ug/l	97
69) o-Xylene	10.640	106	450386	143.559	ug/l	98
70) Styrene	10.653	104	777762	153.173	ug/l	100
71) Bromoform	10.799	173	207497	188.187	ug/l #	97
73) Isopropylbenzene	10.964	105	1088275	135.577	ug/l	99
74) N-amyl acetate	10.842	43	575386	142.309	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	402017	130.738	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	335384m	128.467	ug/l	
77) Bromobenzene	11.195	156	285385	139.269	ug/l	98
78) n-propylbenzene	11.305	91	1224689	143.160	ug/l	99
79) 2-Chlorotoluene	11.366	91	773459	134.748	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	914265	137.180	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	145480	170.044	ug/l	91
82) 4-Chlorotoluene	11.451	91	893567	140.669	ug/l	97
83) tert-Butylbenzene	11.713	119	935627	137.660	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	953082	139.821	ug/l	100
85) sec-Butylbenzene	11.890	105	1112980	141.391	ug/l	98
86) p-Isopropyltoluene	12.006	119	958987	147.051	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	521523	141.838	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	522586	140.994	ug/l	99
89) n-Butylbenzene	12.329	91	830990	157.180	ug/l	99
90) Hexachloroethane	12.536	117	179474	170.120	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	534157	140.889	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	94746	144.811	ug/l	92
93) 1,2,4-Trichlorobenzene	13.585	180	354426	159.641	ug/l	99
94) Hexachlorobutadiene	13.725	225	118245	150.492	ug/l	98
95) Naphthalene	13.774	128	1350122	148.198	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	363960	156.686	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043561.D
Acq On : 28 Oct 2024 12:54
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration

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

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

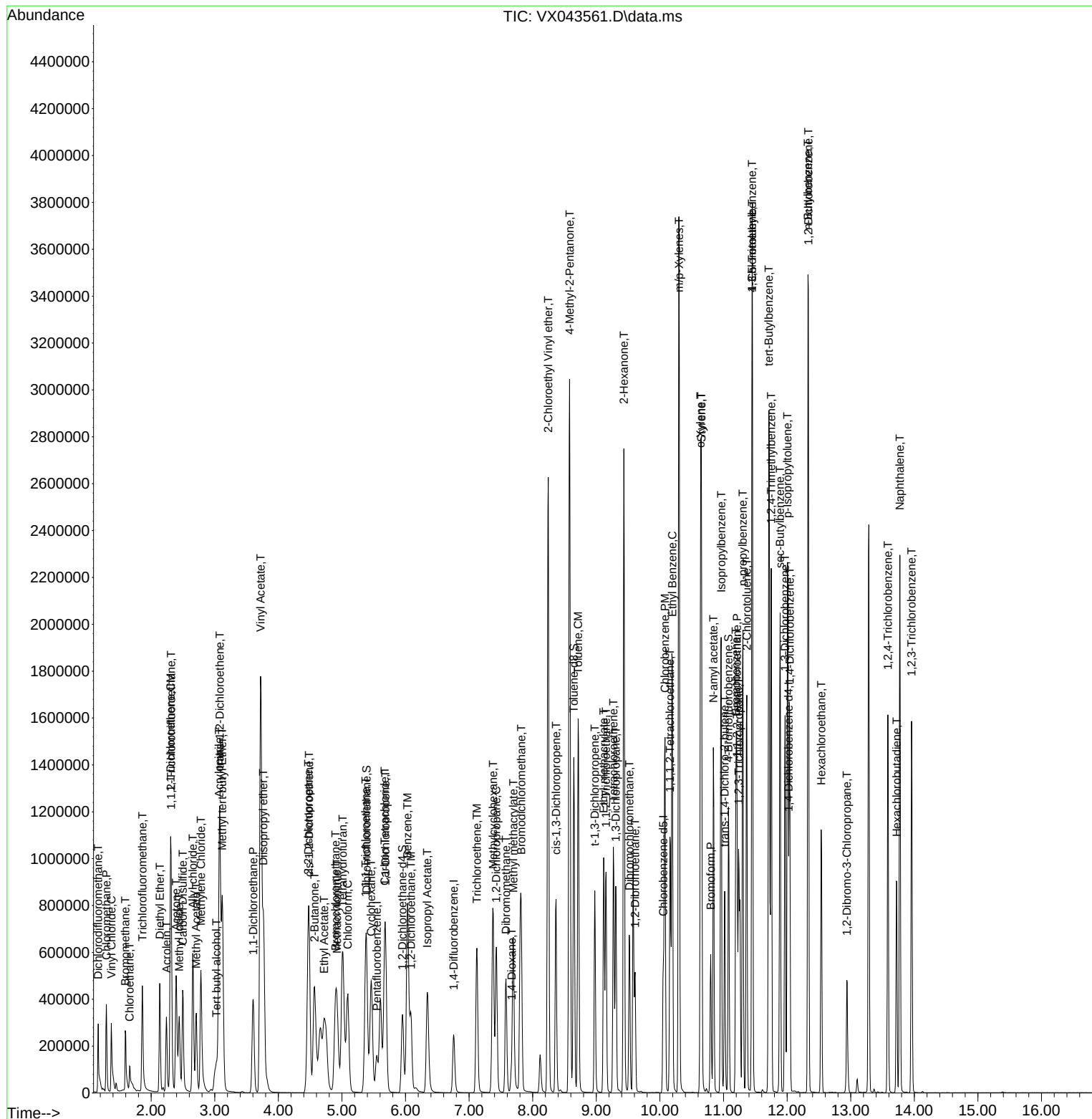
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043561.D
Acq On : 28 Oct 2024 12:54
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 28 13:31:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:29:33 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043563.D
 Acq On : 28 Oct 2024 14:27
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX102824

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 03:22:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	179424	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	320605	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	273282	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	130429	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	130207	45.512	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.020%		
35) Dibromofluoromethane	5.385	113	103607	47.657	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.320%		
50) Toluene-d8	8.647	98	364696	48.461	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.920%		
62) 4-Bromofluorobenzene	11.079	95	134767	48.327	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.660%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	81674	42.565	ug/l	94
3) Chloromethane	1.294	50	101631	41.434	ug/l	99
4) Vinyl Chloride	1.374	62	99612	43.758	ug/l	96
5) Bromomethane	1.593	94	38610	41.604	ug/l	98
6) Chloroethane	1.660	64	32071	39.988	ug/l	96
7) Trichlorofluoromethane	1.855	101	128270	46.124	ug/l	96
8) Diethyl Ether	2.136	74	55490	43.186	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.306	101	83899	44.609	ug/l	98
10) Methyl Iodide	2.441	142	121643	44.767	ug/l	99
11) Tert butyl alcohol	3.044	59	122504	229.410	ug/l #	100
12) 1,1-Dichloroethene	2.300	96	86406	44.957	ug/l	95
13) Acrolein	2.239	56	91162	218.298	ug/l	99
14) Allyl chloride	2.654	41	151352	45.529	ug/l	99
15) Acrylonitrile	3.069	53	266930	221.401	ug/l	98
16) Acetone	2.398	43	254666	224.158	ug/l	99
17) Carbon Disulfide	2.495	76	190995	47.524	ug/l	99
18) Methyl Acetate	2.709	43	140984	42.460	ug/l	98
19) Methyl tert-butyl Ether	3.123	73	317078	43.380	ug/l	97
20) Methylene Chloride	2.782	84	101646	41.513	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	89643	44.148	ug/l	96
22) Diisopropyl ether	3.764	45	300804	43.777	ug/l	97
23) Vinyl Acetate	3.721	43	1302117	229.380	ug/l	99
24) 1,1-Dichloroethane	3.605	63	172319	43.633	ug/l	100
25) 2-Butanone	4.568	43	368994	222.655	ug/l	100
26) 2,2-Dichloropropane	4.465	77	148949	46.075	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	113181	43.635	ug/l	98
28) Bromochloromethane	4.891	49	80045	42.606	ug/l	99
29) Tetrahydrofuran	5.007	42	235105	218.299	ug/l	99
30) Chloroform	5.086	83	180585	43.621	ug/l	95
31) Cyclohexane	5.458	56	133601	44.229	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	157829	45.409	ug/l	99
36) 1,1-Dichloropropene	5.684	75	115808	44.924	ug/l	99
37) Ethyl Acetate	4.721	43	146662	46.862	ug/l	99
38) Carbon Tetrachloride	5.672	117	131275	46.088	ug/l	98
39) Methylcyclohexane	7.373	83	146003	45.618	ug/l	97
40) Benzene	6.031	78	379529	44.132	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043563.D
 Acq On : 28 Oct 2024 14:27
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX102824

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 03:22:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	73439	44.704	ug/l	94
42) 1,2-Dichloroethane	6.080	62	137504	44.475	ug/l	99
43) Isopropyl Acetate	6.342	43	233162	45.049	ug/l	99
44) Trichloroethene	7.123	130	95769	44.826	ug/l	95
45) 1,2-Dichloropropane	7.428	63	94807	44.772	ug/l	98
46) Dibromomethane	7.580	93	71516	43.863	ug/l	98
47) Bromodichloromethane	7.818	83	134816	47.134	ug/l	100
48) Methyl methacrylate	7.696	41	113455	46.235	ug/l	100
49) 1,4-Dioxane	7.677	88	52802	1047.352	ug/l	98
51) 4-Methyl-2-Pentanone	8.580	43	723604	229.383	ug/l	99
52) Toluene	8.714	92	239913	46.000	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	143840	46.821	ug/l	94
54) cis-1,3-Dichloropropene	8.366	75	156936	47.945	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	97965	45.125	ug/l	99
56) Ethyl methacrylate	9.116	69	161309	45.728	ug/l	98
57) 1,3-Dichloropropane	9.305	76	159880	44.279	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	384698	225.175	ug/l	98
59) 2-Hexanone	9.433	43	551262	230.086	ug/l	99
60) Dibromochloromethane	9.519	129	104046	48.399	ug/l	99
61) 1,2-Dibromoethane	9.610	107	101053	44.841	ug/l	99
64) Tetrachloroethene	9.269	164	78661	45.765	ug/l	96
65) Chlorobenzene	10.079	112	267388	45.479	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	93224	48.543	ug/l	99
67) Ethyl Benzene	10.189	91	450377	46.977	ug/l	97
68) m/p-Xylenes	10.299	106	349227	95.253	ug/l	97
69) o-Xylene	10.640	106	175059	47.523	ug/l	99
70) Styrene	10.653	104	294680	48.130	ug/l	99
71) Bromoform	10.799	173	69053	50.009	ug/l #	98
73) Isopropylbenzene	10.963	105	434285	47.005	ug/l	100
74) N-amyl acetate	10.842	43	212192	47.145	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	151871	45.712	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	123473m	44.275	ug/l	
77) Bromobenzene	11.195	156	108482	45.472	ug/l	100
78) n-propylbenzene	11.305	91	480204	47.669	ug/l	99
79) 2-Chlorotoluene	11.360	91	303930	45.500	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	369790	48.003	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	49799	49.126	ug/l	94
82) 4-Chlorotoluene	11.451	91	348692	46.508	ug/l	97
83) tert-Butylbenzene	11.713	119	375497	47.929	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	372516	47.450	ug/l	99
85) sec-Butylbenzene	11.890	105	444311	48.384	ug/l	99
86) p-Isopropyltoluene	12.006	119	377100	48.310	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	196597	45.977	ug/l	100
88) 1,4-Dichlorobenzene	12.043	146	197418	44.556	ug/l	100
89) n-Butylbenzene	12.329	91	317946	49.987	ug/l	100
90) Hexachloroethane	12.536	117	64443	50.825	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	200702	45.901	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	32952	48.652	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	127790	48.149	ug/l	100
94) Hexachlorobutadiene	13.725	225	46538	47.558	ug/l	99
95) Naphthalene	13.774	128	491660	48.409	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	131581	47.022	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

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

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

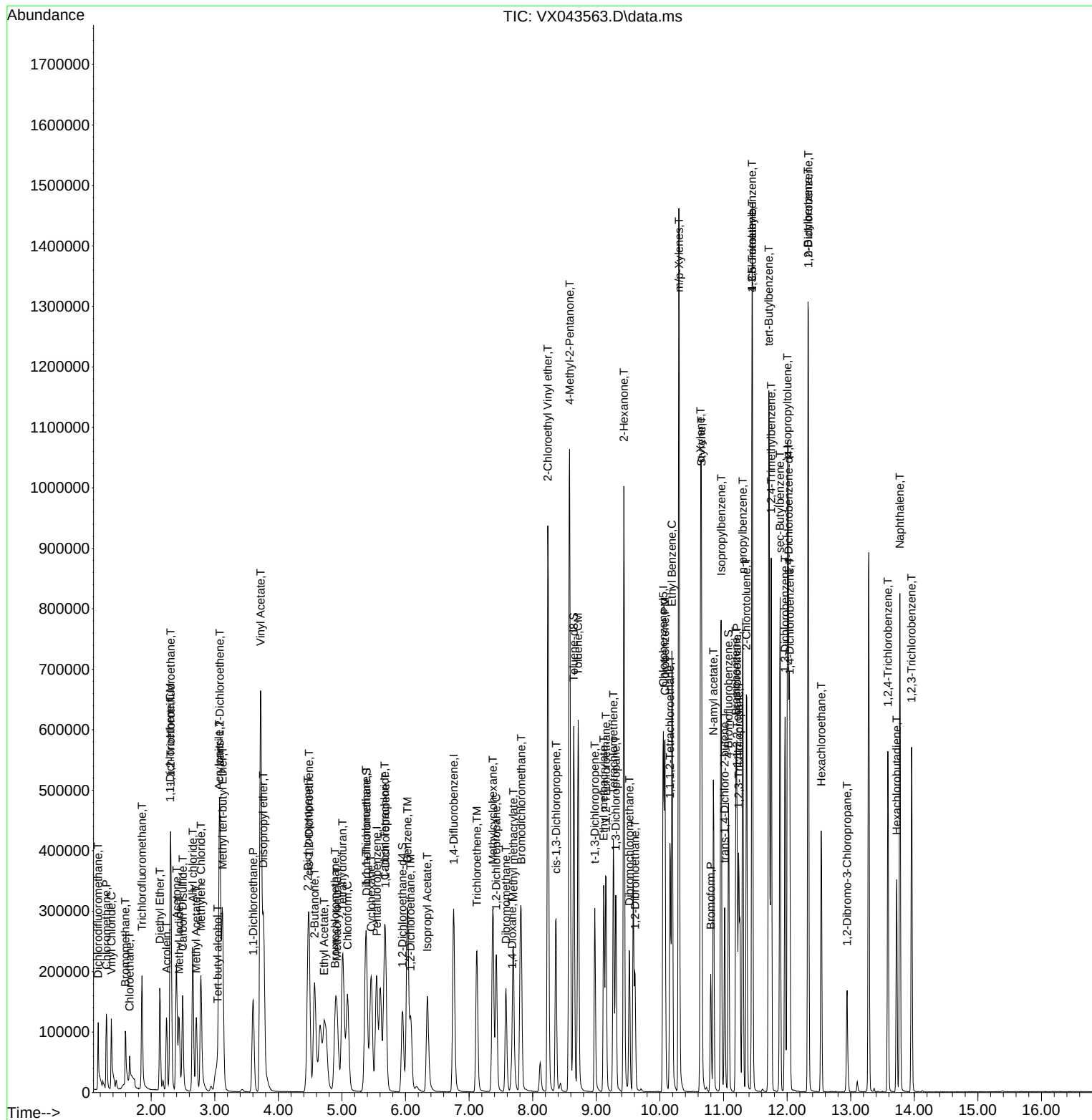
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043563.D
 Acq On : 28 Oct 2024 14:27
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX102824

Quant Time: Oct 29 03:22:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 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	120	0.00
2 T	Dichlorodifluoromethane	0.535	0.455	15.0	108	0.00
3 P	Chloromethane	0.684	0.566	17.3	105	0.00
4 C	Vinyl Chloride	0.634	0.555	12.5#	105	0.00
5 T	Bromomethane	0.259	0.215	17.0	99	0.00
6 T	Chloroethane	0.223	0.179	19.7	96	0.00
7 T	Trichlorofluoromethane	0.775	0.715	7.7	111	0.00
8 T	Diethyl Ether	0.358	0.309	13.7	105	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.524	0.468	10.7	107	0.00
10 T	Methyl Iodide	0.757	0.678	10.4	104	0.00
11 T	Tert butyl alcohol	0.149	0.137	8.1	106	0.00
12 CM	1,1-Dichloroethene	0.536	0.482	10.1#	108	0.00
13 T	Acrolein	0.116	0.102	12.1	113	0.00
14 T	Allyl chloride	0.926	0.844	8.9	107	0.00
15 T	Acrylonitrile	0.336	0.298	11.3	103	0.00
16 T	Acetone	0.317	0.284	10.4	109	0.00
17 T	Carbon Disulfide	1.120	1.064	5.0	113	0.00
18 T	Methyl Acetate	0.925	0.786	15.0	102	0.00
19 T	Methyl tert-butyl Ether	2.037	1.767	13.3	102	0.00
20 T	Methylene Chloride	0.682	0.567	16.9	103	0.00
21 T	trans-1,2-Dichloroethene	0.566	0.500	11.7	107	0.00
22 T	Diisopropyl ether	1.915	1.676	12.5	104	0.00
23 T	Vinyl Acetate	1.582	1.451	8.3	104	0.00
24 P	1,1-Dichloroethane	1.101	0.960	12.8	104	0.00
25 T	2-Butanone	0.462	0.411	11.0	103	0.00
26 T	2,2-Dichloropropane	0.901	0.830	7.9	112	0.00
27 T	cis-1,2-Dichloroethene	0.723	0.631	12.7	103	0.00
28 T	Bromochloromethane	0.524	0.446	14.9	106	0.00
29 T	Tetrahydrofuran	0.300	0.262	12.7	102	0.00
30 C	Chloroform	1.154	1.006	12.8#	104	0.00
31 T	Cyclohexane	0.842	0.745	11.5	107	0.00
32 T	1,1,1-Trichloroethane	0.969	0.880	9.2	107	0.00
33 S	1,2-Dichloroethane-d4	0.797	0.726	8.9	111	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	118	0.00
35 S	Dibromofluoromethane	0.339	0.323	4.7	114	0.00
36 T	1,1-Dichloropropene	0.402	0.361	10.2	110	0.00
37 T	Ethyl Acetate	0.488	0.457	6.4	107	0.00
38 T	Carbon Tetrachloride	0.444	0.409	7.9	109	0.00
39 T	Methylcyclohexane	0.499	0.455	8.8	106	0.00
40 TM	Benzene	1.341	1.184	11.7	103	0.00
41 T	Methacrylonitrile	0.256	0.229	10.5	100	0.00
42 TM	1,2-Dichloroethane	0.482	0.429	11.0	103	0.00
43 T	Isopropyl Acetate	0.807	0.727	9.9	103	0.00
44 TM	Trichloroethene	0.333	0.299	10.2	105	0.00
45 C	1,2-Dichloropropane	0.330	0.296	10.3#	104	0.00
46 T	Dibromomethane	0.254	0.223	12.2	102	0.00
47 T	Bromodichloromethane	0.446	0.421	5.6	104	0.00
48 T	Methyl methacrylate	0.383	0.354	7.6	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043563.D
 Acq On : 28 Oct 2024 14:27
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX102824

Quant Time: Oct 29 03:22:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 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	0.008	0.008	0.0	119	0.00
50 S	Toluene-d8	1.174	1.138	3.1	115	0.00
51 T	4-Methyl-2-Pentanone	0.492	0.451	8.3	102	0.00
52 CM	Toluene	0.813	0.748	8.0#	106	0.00
53 T	t-1,3-Dichloropropene	0.479	0.449	6.3	104	0.00
54 T	cis-1,3-Dichloropropene	0.510	0.489	4.1	107	0.00
55 T	1,1,2-Trichloroethane	0.339	0.306	9.7	102	0.00
56 T	Ethyl methacrylate	0.550	0.503	8.5	101	0.00
57 T	1,3-Dichloropropane	0.563	0.499	11.4	100	0.00
58 T	2-Chloroethyl Vinyl ether	0.266	0.240	9.8	106	0.00
59 T	2-Hexanone	0.374	0.344	8.0	102	0.00
60 T	Dibromochloromethane	0.335	0.325	3.0	105	0.00
61 T	1,2-Dibromoethane	0.351	0.315	10.3	102	0.00
62 S	4-Bromofluorobenzene	0.435	0.420	3.4	112	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	115	0.00
64 T	Tetrachloroethene	0.314	0.288	8.3	107	0.00
65 PM	Chlorobenzene	1.076	0.978	9.1	104	0.00
66 T	1,1,1,2-Tetrachloroethane	0.351	0.341	2.8	105	0.00
67 C	Ethyl Benzene	1.754	1.648	6.0#	106	0.00
68 T	m/p-Xylenes	0.671	0.639	4.8	106	0.00
69 T	o-Xylene	0.674	0.641	4.9	107	0.00
70 T	Styrene	1.120	1.078	3.8	105	0.00
71 P	Bromoform	0.253	0.253	0.0	105	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
73 T	Isopropylbenzene	3.542	3.330	6.0	106	0.00
74 T	N-amyl acetate	1.725	1.627	5.7	104	0.00
75 P	1,1,2,2-Tetrachloroethane	1.274	1.164	8.6	103	0.00
76 T	1,2,3-Trichloropropane	1.069	0.947	11.4	100	0.00
77 T	Bromobenzene	0.915	0.832	9.1	102	0.00
78 T	n-propylbenzene	3.862	3.682	4.7	105	0.00
79 T	2-Chlorotoluene	2.561	2.330	9.0	105	0.00
80 T	1,3,5-Trimethylbenzene	2.953	2.835	4.0	106	0.00
81 T	trans-1,4-Dichloro-2-butene	0.389	0.382	1.8	104	0.00
82 T	4-Chlorotoluene	2.874	2.673	7.0	105	0.00
83 T	tert-Butylbenzene	3.003	2.879	4.1	108	0.00
84 T	1,2,4-Trimethylbenzene	3.010	2.856	5.1	105	0.00
85 T	sec-Butylbenzene	3.520	3.407	3.2	106	0.00
86 T	p-Isopropyltoluene	2.992	2.891	3.4	105	0.00
87 T	1,3-Dichlorobenzene	1.639	1.507	8.1	104	0.00
88 T	1,4-Dichlorobenzene	1.699	1.514	10.9	104	0.00
89 T	n-Butylbenzene	2.438	2.438	0.0	106	0.00
90 T	Hexachloroethane	0.486	0.494	-1.6	108	0.00
91 T	1,2-Dichlorobenzene	1.676	1.539	8.2	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.260	0.253	2.7	102	0.00
93 T	1,2,4-Trichlorobenzene	1.017	0.980	3.6	103	0.00
94 T	Hexachlorobutadiene	0.375	0.357	4.8	109	0.00
95 T	Naphthalene	3.893	3.770	3.2	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 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	1.073	1.009	6.0	104	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\ VX102824\
 Data File : VX043563.D
 Acq On : 28 Oct 2024 14:27
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX102824

Quant Time: Oct 29 03:22:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 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	120	0.00
2 T	Dichlorodifluoromethane	50.000	42.565	14.9	108	0.00
3 P	Chloromethane	50.000	41.434	17.1	105	0.00
4 C	Vinyl Chloride	50.000	43.758	12.5#	105	0.00
5 T	Bromomethane	50.000	41.604	16.8	99	0.00
6 T	Chloroethane	50.000	39.988	20.0	96	0.00
7 T	Trichlorofluoromethane	50.000	46.124	7.8	111	0.00
8 T	Diethyl Ether	50.000	43.186	13.6	105	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	44.609	10.8	107	0.00
10 T	Methyl Iodide	50.000	44.767	10.5	104	0.00
11 T	Tert butyl alcohol	250.000	229.410	8.2	106	0.00
12 CM	1,1-Dichloroethene	50.000	44.957	10.1#	108	0.00
13 T	Acrolein	250.000	218.298	12.7	113	0.00
14 T	Allyl chloride	50.000	45.529	8.9	107	0.00
15 T	Acrylonitrile	250.000	221.401	11.4	103	0.00
16 T	Acetone	250.000	224.158	10.3	109	0.00
17 T	Carbon Disulfide	50.000	47.524	5.0	113	0.00
18 T	Methyl Acetate	50.000	42.460	15.1	102	0.00
19 T	Methyl tert-butyl Ether	50.000	43.380	13.2	102	0.00
20 T	Methylene Chloride	50.000	41.513	17.0	103	0.00
21 T	trans-1,2-Dichloroethene	50.000	44.148	11.7	107	0.00
22 T	Diisopropyl ether	50.000	43.777	12.4	104	0.00
23 T	Vinyl Acetate	250.000	229.380	8.2	104	0.00
24 P	1,1-Dichloroethane	50.000	43.633	12.7	104	0.00
25 T	2-Butanone	250.000	222.655	10.9	103	0.00
26 T	2,2-Dichloropropane	50.000	46.075	7.8	112	0.00
27 T	cis-1,2-Dichloroethene	50.000	43.635	12.7	103	0.00
28 T	Bromochloromethane	50.000	42.606	14.8	106	0.00
29 T	Tetrahydrofuran	250.000	218.299	12.7	102	0.00
30 C	Chloroform	50.000	43.621	12.8#	104	0.00
31 T	Cyclohexane	50.000	44.229	11.5	107	0.00
32 T	1,1,1-Trichloroethane	50.000	45.409	9.2	107	0.00
33 S	1,2-Dichloroethane-d4	50.000	45.512	9.0	111	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	118	0.00
35 S	Dibromofluoromethane	50.000	47.657	4.7	114	0.00
36 T	1,1-Dichloropropene	50.000	44.924	10.2	110	0.00
37 T	Ethyl Acetate	50.000	46.862	6.3	107	0.00
38 T	Carbon Tetrachloride	50.000	46.088	7.8	109	0.00
39 T	Methylcyclohexane	50.000	45.618	8.8	106	0.00
40 TM	Benzene	50.000	44.132	11.7	103	0.00
41 T	Methacrylonitrile	50.000	44.704	10.6	100	0.00
42 TM	1,2-Dichloroethane	50.000	44.475	11.0	103	0.00
43 T	Isopropyl Acetate	50.000	45.049	9.9	103	0.00
44 TM	Trichloroethene	50.000	44.826	10.3	105	0.00
45 C	1,2-Dichloropropane	50.000	44.772	10.5#	104	0.00
46 T	Dibromomethane	50.000	43.863	12.3	102	0.00
47 T	Bromodichloromethane	50.000	47.134	5.7	104	0.00
48 T	Methyl methacrylate	50.000	46.235	7.5	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
 Data File : VX043563.D
 Acq On : 28 Oct 2024 14:27
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX102824

Quant Time: Oct 29 03:22:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 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	1047.352	-4.7	119	0.00
50 S	Toluene-d8	50.000	48.461	3.1	115	0.00
51 T	4-Methyl-2-Pentanone	250.000	229.383	8.2	102	0.00
52 CM	Toluene	50.000	46.000	8.0#	106	0.00
53 T	t-1,3-Dichloropropene	50.000	46.821	6.4	104	0.00
54 T	cis-1,3-Dichloropropene	50.000	47.945	4.1	107	0.00
55 T	1,1,2-Trichloroethane	50.000	45.125	9.8	102	0.00
56 T	Ethyl methacrylate	50.000	45.728	8.5	101	0.00
57 T	1,3-Dichloropropane	50.000	44.279	11.4	100	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	225.175	9.9	106	0.00
59 T	2-Hexanone	250.000	230.086	8.0	102	0.00
60 T	Dibromochloromethane	50.000	48.399	3.2	105	0.00
61 T	1,2-Dibromoethane	50.000	44.841	10.3	102	0.00
62 S	4-Bromofluorobenzene	50.000	48.327	3.3	112	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	115	0.00
64 T	Tetrachloroethene	50.000	45.765	8.5	107	0.00
65 PM	Chlorobenzene	50.000	45.479	9.0	104	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	48.543	2.9	105	0.00
67 C	Ethyl Benzene	50.000	46.977	6.0#	106	0.00
68 T	m/p-Xylenes	100.000	95.253	4.7	106	0.00
69 T	o-Xylene	50.000	47.523	5.0	107	0.00
70 T	Styrene	50.000	48.130	3.7	105	0.00
71 P	Bromoform	50.000	50.009	-0.0	105	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	114	0.00
73 T	Isopropylbenzene	50.000	47.005	6.0	106	0.00
74 T	N-amyl acetate	50.000	47.145	5.7	104	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	45.712	8.6	103	0.00
76 T	1,2,3-Trichloropropane	50.000	44.275	11.5	100	0.00
77 T	Bromobenzene	50.000	45.472	9.1	102	0.00
78 T	n-propylbenzene	50.000	47.669	4.7	105	0.00
79 T	2-Chlorotoluene	50.000	45.500	9.0	105	0.00
80 T	1,3,5-Trimethylbenzene	50.000	48.003	4.0	106	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.126	1.7	104	0.00
82 T	4-Chlorotoluene	50.000	46.508	7.0	105	0.00
83 T	tert-Butylbenzene	50.000	47.929	4.1	108	0.00
84 T	1,2,4-Trimethylbenzene	50.000	47.450	5.1	105	0.00
85 T	sec-Butylbenzene	50.000	48.384	3.2	106	0.00
86 T	p-Isopropyltoluene	50.000	48.310	3.4	105	0.00
87 T	1,3-Dichlorobenzene	50.000	45.977	8.0	104	0.00
88 T	1,4-Dichlorobenzene	50.000	44.556	10.9	104	0.00
89 T	n-Butylbenzene	50.000	49.987	0.0	106	0.00
90 T	Hexachloroethane	50.000	50.825	-1.7	108	0.00
91 T	1,2-Dichlorobenzene	50.000	45.901	8.2	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.652	2.7	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	48.149	3.7	103	0.00
94 T	Hexachlorobutadiene	50.000	47.558	4.9	109	0.00
95 T	Naphthalene	50.000	48.409	3.2	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043563.D
Acq On : 28 Oct 2024 14:27
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102824

Quant Time: Oct 29 03:22:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 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	47.022	6.0	104	0.00

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578
 Instrument ID: MSVOA_Y Calibration Date(s): 10/09/2024 10/09/2024
 Heated Purge: (Y/N) Y Calibration Time(s): 10:18 12:11
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY019827.D		RRF010 = VY019828.D		RRF020 = VY019829.D		RRF050 = VY019830.D		RRF100 = VY019831.D		RRF150 = VY019832.D	
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD				
Dichlorodifluoromethane	0.500	0.498	0.410	0.458	0.434	0.492	0.465	8.1				
Chloromethane	0.643	0.637	0.517	0.616	0.550	0.671	0.606	9.8				
Vinyl Chloride	0.707	0.685	0.579	0.688	0.624	0.716	0.667	8				
Bromomethane	0.458	0.447	0.357	0.433	0.390	0.447	0.422	9.4				
Chloroethane	0.493	0.469	0.390	0.456	0.408	0.472	0.448	8.9				
Trichlorofluoromethane	1.101	1.016	0.868	1.000	0.915	1.051	0.992	8.7				
1,1,2-Trichlorotrifluoroethane	0.619	0.611	0.509	0.581	0.535	0.606	0.577	7.8				
1,1-Dichloroethene	0.588	0.558	0.453	0.550	0.499	0.570	0.536	9.4				
Acetone	0.196	0.156	0.134	0.170	0.152	0.153	0.160	12.9				
Carbon Disulfide	1.501	1.392	1.193	1.552	1.404	1.586	1.438	10				
Methyl tert-butyl Ether	1.719	1.559	1.334	1.574	1.443	1.617	1.541	8.8				
Methyl Acetate	0.393	0.334	0.301	0.350	0.321	0.372	0.345	9.7				
Methylene Chloride	0.869	0.695	0.551	0.619	0.543	0.603	0.647	18.9				
trans-1,2-Dichloroethene	0.630	0.597	0.511	0.605	0.547	0.612	0.584	7.7				
1,1-Dichloroethane	1.288	1.219	1.025	1.202	1.084	1.214	1.172	8.3				
Cyclohexane	1.262	1.098	0.863	1.009	0.915	1.024	1.029	13.8				
2-Butanone	0.251	0.217	0.186	0.222	0.201	0.211	0.215	10.2				
Carbon Tetrachloride	0.525	0.505	0.446	0.527	0.495	0.559	0.510	7.5				
cis-1,2-Dichloroethene	0.777	0.766	0.628	0.740	0.669	0.749	0.721	8.2				
Bromochloromethane	0.607	0.470	0.502	0.529	0.483	0.504	0.516	9.5				
Chloroform	1.318	1.238	1.055	1.225	1.102	1.229	1.195	8.1				
1,1,1-Trichloroethane	1.118	1.091	0.915	1.067	0.978	1.112	1.047	7.9				
Methylcyclohexane	0.629	0.584	0.512	0.629	0.581	0.658	0.599	8.6				
Benzene	1.512	1.474	1.283	1.488	1.361	1.514	1.439	6.6				
1,2-Dichloroethane	0.448	0.399	0.368	0.430	0.398	0.436	0.413	7.3				
Trichloroethene	0.381	0.340	0.300	0.366	0.333	0.370	0.348	8.7				
1,2-Dichloropropane	0.390	0.375	0.322	0.366	0.337	0.371	0.360	7.1				
Bromodichloromethane	0.549	0.524	0.456	0.543	0.501	0.560	0.522	7.4				
4-Methyl-2-Pentanone	0.281	0.247	0.220	0.269	0.254	0.275	0.258	8.7				
Toluene	0.930	0.892	0.800	0.940	0.866	0.960	0.898	6.5				

* 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.



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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578
 Instrument ID: MSVOA_Y Calibration Date(s): 10/09/2024 10/09/2024
 Heated Purge: (Y/N) Y Calibration Time(s): 10:18 12:11
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY019827.D		RRF010 = VY019828.D		RRF020 = VY019829.D			
		RRF050 = VY019830.D		RRF100 = VY019831.D		RRF150 = VY019832.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.477	0.448	0.408	0.497	0.464	0.524	0.470	8.6	
cis-1,3-Dichloropropene	0.577	0.537	0.489	0.579	0.542	0.603	0.554	7.3	
1,1,2-Trichloroethane	0.280	0.257	0.230	0.269	0.248	0.271	0.259	6.9	
2-Hexanone	0.193	0.173	0.160	0.197	0.185	0.197	0.184	8.1	
Dibromochloromethane	0.348	0.317	0.294	0.344	0.328	0.364	0.333	7.5	
1,2-Dibromoethane	0.244	0.234	0.207	0.246	0.226	0.248	0.234	6.7	
Tetrachloroethene	0.379	0.366	0.316	0.368	0.328	0.377	0.356	7.6	
Chlorobenzene	1.226	1.167	1.032	1.171	1.064	1.202	1.144	6.8	
Ethyl Benzene	2.177	2.100	1.861	2.164	1.953	2.209	2.077	6.7	
m/p-Xylenes	0.802	0.781	0.691	0.796	0.720	0.813	0.767	6.5	
o-Xylene	0.750	0.756	0.665	0.769	0.700	0.783	0.737	6.1	
Styrene	1.276	1.238	1.120	1.304	1.191	1.333	1.244	6.3	
Bromoform	0.208	0.198	0.180	0.220	0.204	0.232	0.207	8.7	
Isopropylbenzene	4.420	4.371	3.794	4.268	3.912	4.470	4.206	6.7	
1,1,2,2-Tetrachloroethane	0.796	0.737	0.664	0.763	0.719	0.805	0.747	7	
1,3-Dichlorobenzene	1.968	1.892	1.598	1.819	1.651	1.887	1.802	8.1	
1,4-Dichlorobenzene	1.928	1.831	1.572	1.801	1.635	1.856	1.771	7.8	
1,2-Dichlorobenzene	1.716	1.620	1.416	1.612	1.474	1.663	1.584	7.3	
1,2-Dibromo-3-Chloropropane	0.133	0.115	0.100	0.121	0.118	0.129	0.119	9.7	
1,2,4-Trichlorobenzene	0.860	0.832	0.758	0.965	0.886	1.027	0.888	10.8	
1,2,3-Trichlorobenzene	0.716	0.698	0.634	0.823	0.761	0.872	0.751	11.5	
1,2-Dichloroethane-d4	0.701	0.656	0.566	0.581	0.583	0.607	0.616	8.5	
Dibromofluoromethane	0.356	0.335	0.300	0.321	0.326	0.341	0.330	5.8	
Toluene-d8	1.299	1.254	1.134	1.185	1.191	1.246	1.218	4.9	
4-Bromofluorobenzene	0.498	0.438	0.402	0.426	0.427	0.450	0.440	7.4	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y100924S.M
 Title : SW846 8260
 Last Update : Thu Oct 10 05:30:07 2024
 Response Via : Initial Calibration

Calibration Files

5 =VY019827.D 10 =VY019828.D 20 =VY019829.D 50 =VY019830.D 100 =VY019831.D 150 =VY019832.D

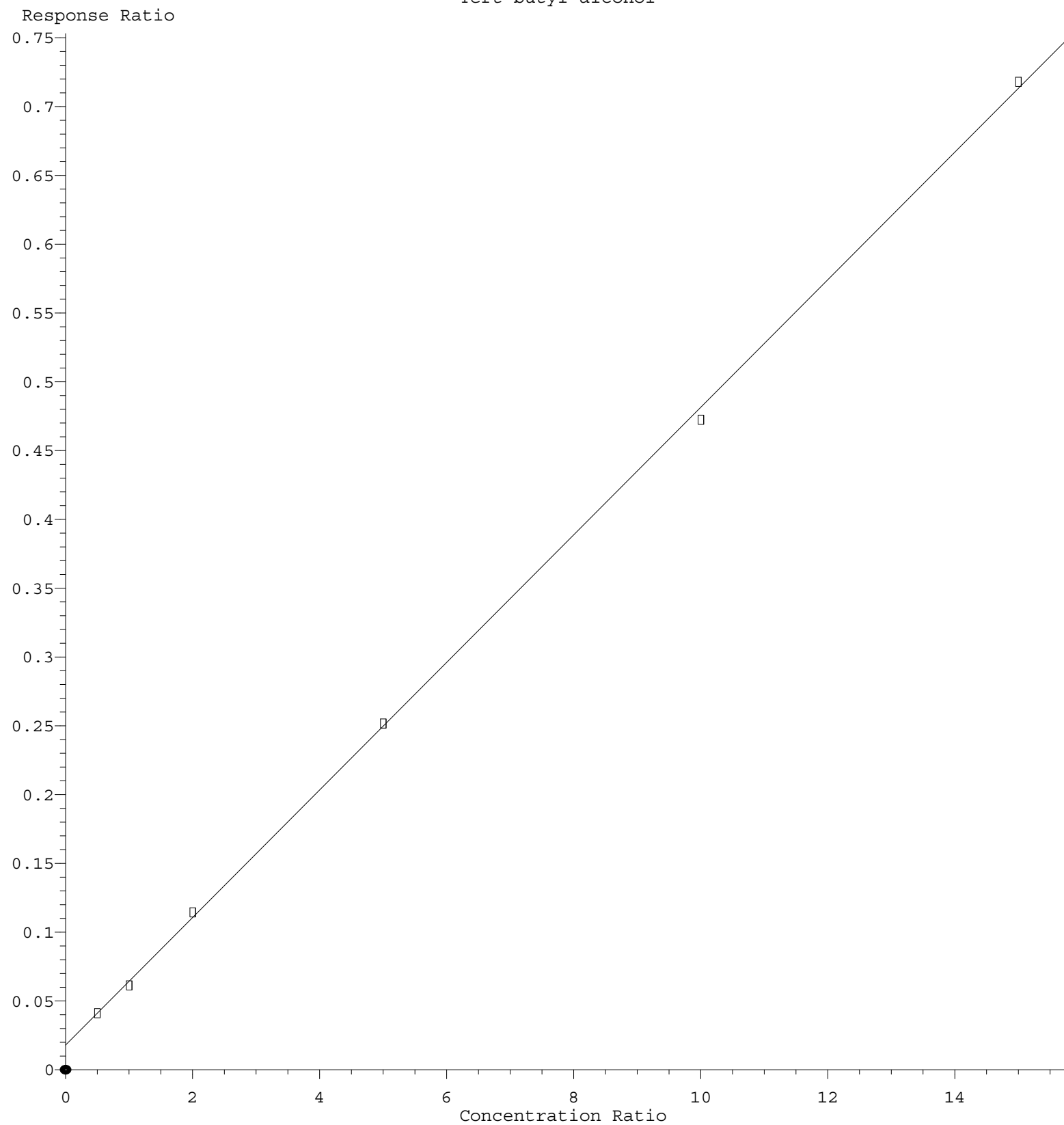
	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.500	0.498	0.410	0.458	0.434	0.492	0.465	8.07
3) P	Chloromethane	0.643	0.637	0.517	0.616	0.550	0.671	0.606	9.80
4) C	Vinyl Chloride	0.707	0.685	0.579	0.688	0.624	0.716	0.667	8.02#
5) T	Bromomethane	0.458	0.447	0.357	0.433	0.390	0.447	0.422	9.42
6) T	Chloroethane	0.493	0.469	0.390	0.456	0.408	0.472	0.448	8.94
7) T	Trichlorofluor...	1.101	1.016	0.868	1.000	0.915	1.051	0.992	8.69
8) T	Diethyl Ether	0.317	0.304	0.268	0.314	0.284	0.322	0.301	6.96
9) T	1,1,2-Trichlor...	0.619	0.611	0.509	0.581	0.535	0.606	0.577	7.82
10) T	Methyl Iodide	0.569	0.584	0.518	0.633	0.569	0.628	0.584	7.29
11) T	Tert butyl alc...	0.082	0.061	0.057	0.050	0.047	0.048	0.058	22.92
12) CM	1,1-Dichloroet...	0.588	0.558	0.453	0.550	0.499	0.570	0.536	9.39#
13) T	Acrolein	0.061	0.049	0.046	0.040	0.036	0.040	0.045	19.69
14) T	Allyl chloride	1.054	0.975	0.843	1.011	0.902	1.022	0.968	8.28
15) T	Acrylonitrile	0.154	0.136	0.119	0.143	0.132	0.143	0.138	8.58
16) T	Acetone	0.196	0.156	0.134	0.170	0.152	0.153	0.160	12.95
17) T	Carbon Disulfide	1.501	1.392	1.193	1.552	1.404	1.586	1.438	9.95
18) T	Methyl Acetate	0.393	0.334	0.301	0.350	0.321	0.372	0.345	9.74
19) T	Methyl tert-bu...	1.719	1.559	1.334	1.574	1.443	1.617	1.541	8.78
20) T	Methylene Chlo...	0.869	0.695	0.551	0.619	0.543	0.603	0.647	18.87
21) T	trans-1,2-Dich...	0.630	0.597	0.511	0.605	0.547	0.612	0.584	7.74
22) T	Diisopropyl ether	2.286	2.223	1.874	2.166	1.942	2.159	2.108	7.75
23) T	Vinyl Acetate	1.289	1.218	1.042	1.275	1.161	1.266	1.209	7.78
24) P	1,1-Dichloroet...	1.288	1.219	1.025	1.202	1.084	1.214	1.172	8.33
25) T	2-Butanone	0.251	0.217	0.186	0.222	0.201	0.211	0.215	10.18
26) T	2,2-Dichloropr...	1.228	1.071	0.911	1.045	0.945	1.062	1.044	10.70
27) T	cis-1,2-Dichlo...	0.777	0.766	0.628	0.740	0.669	0.749	0.721	8.23
28) T	Bromochloromet...	0.607	0.470	0.502	0.529	0.483	0.504	0.516	9.47
29) T	Tetrahydrofuran	0.140	0.120	0.105	0.128	0.118	0.125	0.122	9.65
30) C	Chloroform	1.318	1.238	1.055	1.225	1.102	1.229	1.195	8.14#
31) T	Cyclohexane	1.262	1.098	0.863	1.009	0.915	1.024	1.029	13.76
32) T	1,1,1-Trichlor...	1.118	1.091	0.915	1.067	0.978	1.112	1.047	7.85
33) S	1,2-Dichloroet...	0.701	0.656	0.566	0.581	0.583	0.607	0.616	8.48
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.356	0.335	0.300	0.321	0.326	0.341	0.330	5.77
36) T	1,1-Dichloropr...	0.514	0.464	0.415	0.496	0.455	0.509	0.475	7.98
37) T	Ethyl Acetate	0.270	0.238	0.217	0.258	0.247	0.258	0.248	7.60
38) T	Carbon Tetrach...	0.525	0.505	0.446	0.527	0.495	0.559	0.510	7.54
39) T	Methylcyclohexane	0.629	0.584	0.512	0.629	0.581	0.658	0.599	8.64
40) TM	Benzene	1.512	1.474	1.283	1.488	1.361	1.514	1.439	6.58
41) T	Methacrylonitrile	0.126	0.120	0.123	0.156	0.129	0.151	0.134	11.38
42) TM	1,2-Dichloroet...	0.448	0.399	0.368	0.430	0.398	0.436	0.413	7.28
43) T	Isopropyl Acetate	0.547	0.491	0.436	0.524	0.496	0.538	0.505	8.05
44) TM	Trichloroethene	0.381	0.340	0.300	0.366	0.333	0.370	0.348	8.65
45) C	1,2-Dichloropr...	0.390	0.375	0.321	0.366	0.337	0.371	0.360	7.13#
46) T	Dibromomethane	0.220	0.190	0.174	0.204	0.188	0.205	0.197	8.23
47) T	Bromodichlorom...	0.549	0.524	0.456	0.543	0.501	0.560	0.522	7.36
48) T	Methyl methacr...	0.221	0.201	0.189	0.237	0.228	0.258	0.222	11.21
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	5.76
50) S	Toluene-d8	1.299	1.254	1.134	1.185	1.191	1.246	1.218	4.86
51) T	4-Methyl-2-Pen...	0.281	0.247	0.220	0.269	0.254	0.275	0.258	8.66
52) CM	Toluene	0.930	0.892	0.800	0.940	0.866	0.960	0.898	6.54#
53) T	t-1,3-Dichloro...	0.477	0.448	0.408	0.497	0.464	0.524	0.470	8.55
54) T	cis-1,3-Dichlo...	0.577	0.537	0.489	0.579	0.542	0.603	0.554	7.30
55) T	1,1,2-Trichlor...	0.280	0.257	0.230	0.269	0.248	0.271	0.259	6.93
56) T	Ethyl methacry...	0.376	0.330	0.316	0.403	0.381	0.426	0.372	11.38

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y100924S.M

57)	T	1,3-Dichloropr...	0.481	0.460	0.400	0.474	0.439	0.476	0.455	6.77
58)	T	2-Chloroethyl ...	0.179	0.168	0.164	0.171	0.176	0.182	0.173	4.02
59)	T	2-Hexanone	0.193	0.173	0.160	0.197	0.185	0.197	0.184	8.12
60)	T	Dibromochlorom...	0.348	0.317	0.294	0.344	0.328	0.364	0.333	7.47
61)	T	1,2-Dibromoethane	0.244	0.234	0.207	0.246	0.226	0.248	0.234	6.70
62)	S	4-Bromofluorob...	0.498	0.438	0.402	0.426	0.427	0.450	0.440	7.41
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.379	0.366	0.316	0.368	0.328	0.377	0.356	7.55
65)	PM	Chlorobenzene	1.226	1.167	1.032	1.171	1.064	1.202	1.144	6.79
66)	T	1,1,1,2-Tetrac...	0.409	0.386	0.350	0.398	0.366	0.414	0.387	6.47
67)	C	Ethyl Benzene	2.177	2.100	1.861	2.164	1.953	2.209	2.077	6.73#
68)	T	m/p-Xylenes	0.802	0.781	0.691	0.796	0.720	0.813	0.767	6.47
69)	T	o-Xylene	0.750	0.756	0.665	0.769	0.700	0.783	0.737	6.15
70)	T	Styrene	1.276	1.238	1.120	1.304	1.191	1.333	1.244	6.30
71)	P	Bromoform	0.208	0.198	0.180	0.220	0.204	0.232	0.207	8.74
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	4.420	4.371	3.794	4.268	3.912	4.470	4.206	6.75
74)	T	N-amyl acetate	1.098	1.055	0.965	1.174	1.123	1.269	1.114	9.30
75)	P	1,1,2,2-Tetrac...	0.796	0.737	0.664	0.763	0.719	0.805	0.747	7.05
76)	T	1,2,3-Trichlor...	0.596	0.495	0.526	0.507	0.478	0.523	0.521	7.84
77)	T	Bromobenzene	0.945	0.920	0.784	0.913	0.841	0.952	0.892	7.41
78)	T	n-propylbenzene	5.289	5.250	4.615	5.213	4.752	5.371	5.082	6.22
79)	T	2-Chlorotoluene	3.136	3.010	2.606	2.975	2.688	3.066	2.913	7.39
80)	T	1,3,5-Trimethy...	3.576	3.494	3.067	3.470	3.180	3.593	3.396	6.47
81)	T	trans-1,4-Dich...	0.244	0.233	0.206	0.251	0.242	0.280	0.243	10.01
82)	T	4-Chlorotoluene	3.184	3.129	2.650	3.029	2.749	3.132	2.979	7.53
83)	T	tert-Butylbenzene	3.236	3.178	2.709	3.100	2.829	3.204	3.043	7.22
84)	T	1,2,4-Trimethy...	3.532	3.450	3.024	3.466	3.155	3.578	3.367	6.66
85)	T	sec-Butylbenzene	4.798	4.743	4.008	4.719	4.218	4.791	4.546	7.55
86)	T	p-Isopropyltol...	3.923	3.757	3.275	3.810	3.460	3.923	3.691	7.19
87)	T	1,3-Dichlorobe...	1.968	1.892	1.598	1.819	1.651	1.887	1.802	8.15
88)	T	1,4-Dichlorobe...	1.928	1.831	1.572	1.801	1.635	1.856	1.771	7.77
89)	T	n-Butylbenzene	3.608	3.686	3.180	3.827	3.415	3.912	3.605	7.51
90)	T	Hexachloroethane	0.730	0.732	0.616	0.739	0.692	0.804	0.719	8.62
91)	T	1,2-Dichlorobe...	1.716	1.620	1.416	1.612	1.474	1.663	1.584	7.26
92)	T	1,2-Dibromo-3-...	0.133	0.115	0.100	0.121	0.118	0.129	0.119	9.66
93)	T	1,2,4-Trichlor...	0.860	0.832	0.758	0.965	0.886	1.027	0.888	10.80
94)	T	Hexachlorobuta...	0.502	0.489	0.423	0.529	0.472	0.548	0.494	8.97
95)	T	Naphthalene	1.486	1.440	1.390	1.845	1.806	2.082	1.675	16.55
96)	T	1,2,3-Trichlor...	0.716	0.698	0.634	0.823	0.761	0.872	0.751	11.53

(#) = Out of Range

Tert butyl alcohol



Response = $4.638 \times 10^{-2} \times \text{Amt} + 1.751 \times 10^{-2}$
Coef of Det (r^2) = 0.999639 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y100924S.M
Calibration Table Last Updated: Thu Oct 10 05:30:07 2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019827.D
 Acq On : 09 Oct 2024 10:18
 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

10/10/2024
 Supervised By :Mahesh
 Dadoda

Quant Time: Oct 10 05:15:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	374343	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	666511	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	557182	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	257354	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	26224	5.689	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	11.380%#
35) Dibromofluoromethane	7.640	113	23731	5.396	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	10.800%#
50) Toluene-d8	10.103	98	86603	5.332	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	10.660%#
62) 4-Bromofluorobenzene	12.402	95	33223	5.661	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	11.320%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	18708	5.368	ug/l	98
3) Chloromethane	2.074	50	24088	5.311	ug/l	99
4) Vinyl Chloride	2.208	62	26464	5.302	ug/l	96
5) Bromomethane	2.605	94	17128	5.422	ug/l	96
6) Chloroethane	2.739	64	18439	5.499	ug/l	97
7) Trichlorofluoromethane	3.062	101	41227	5.551	ug/l	91
8) Diethyl Ether	3.452	74	11854	5.252	ug/l	85
9) 1,1,2-Trichlorotrifluo...	3.824	101	23186	5.367	ug/l	99
10) Methyl Iodide	4.001	142	21313	4.878	ug/l	97
11) Tert butyl alcohol	4.860	59	15386	25.435	ug/l #	86
12) 1,1-Dichloroethene	3.793	96	21994	5.477	ug/l	96
13) Acrolein	3.653	56	11407	33.680	ug/l	99
14) Allyl chloride	4.385	41	39466	5.447	ug/l	100
15) Acrylonitrile	5.061	53	28849	27.944	ug/l	97
16) Acetone	3.873	43	36615	30.516	ug/l	92
17) Carbon Disulfide	4.110	76	56179	5.219	ug/l	97
18) Methyl Acetate	4.391	43	14714	5.693	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	64344	5.577	ug/l	93
20) Methylene Chloride	4.616	84	32544	6.721	ug/l	95
21) trans-1,2-Dichloroethene	5.122	96	23585	5.396	ug/l	93
22) Diisopropyl ether	6.019	45	85560	5.421	ug/l #	90
23) Vinyl Acetate	5.964	43	241204	26.658	ug/l	99
24) 1,1-Dichloroethane	5.921	63	48212	5.495	ug/l	99
25) 2-Butanone	6.896	43	46904	29.204	ug/l	96
26) 2,2-Dichloropropane	6.884	77	45964	5.883	ug/l	96
27) cis-1,2-Dichloroethene	6.890	96	29094	5.386	ug/l	96
28) Bromochloromethane	7.250	49	22704	5.879	ug/l	94
29) Tetrahydrofuran	7.262	42	26280	28.658	ug/l	97
30) Chloroform	7.421	83	49340	5.517	ug/l	99
31) Cyclohexane	7.701	56	47253	6.136	ug/l #	85
32) 1,1,1-Trichloroethane	7.616	97	41860	5.341	ug/l	97
36) 1,1-Dichloropropene	7.835	75	34242	5.404	ug/l	99
37) Ethyl Acetate	6.988	43	17987	5.444	ug/l	96
38) Carbon Tetrachloride	7.817	117	35007	5.153	ug/l	98
39) Methylcyclohexane	9.109	83	41950	5.254	ug/l	96
40) Benzene	8.079	78	100750	5.254	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019827.D
 Acq On : 09 Oct 2024 10:18
 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

10/10/2024
 Supervised By :Mahesh
 Dadoda

Quant Time: Oct 10 05:15:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	8419	4.708	ug/l #	81
42) 1,2-Dichloroethane	8.158	62	29850	5.418	ug/l	99
43) Isopropyl Acetate	8.195	43	36465	5.412	ug/l #	88
44) Trichloroethene	8.866	130	25386	5.466	ug/l	88
45) 1,2-Dichloropropane	9.140	63	26001	5.417	ug/l	94
46) Dibromomethane	9.231	93	14664	5.592	ug/l	95
47) Bromodichloromethane	9.420	83	36601	5.258	ug/l	97
48) Methyl methacrylate	9.225	41	14711	4.963	ug/l	92
49) 1,4-Dioxane	9.231	88	2943	100.270	ug/l #	74
51) 4-Methyl-2-Pentanone	10.000	43	93808	27.294	ug/l	97
52) Toluene	10.170	92	62004	5.180	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	31813	5.080	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	38450	5.203	ug/l	94
55) 1,1,2-Trichloroethane	10.573	97	18629	5.392	ug/l	94
56) Ethyl methacrylate	10.438	69	25028	5.048	ug/l	97
57) 1,3-Dichloropropane	10.719	76	32075	5.286	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	59794	25.908	ug/l	100
59) 2-Hexanone	10.762	43	64389	26.230	ug/l	99
60) Dibromochloromethane	10.908	129	23206	5.233	ug/l	98
61) 1,2-Dibromoethane	11.012	107	16281	5.215	ug/l	94
64) Tetrachloroethene	10.646	164	21107	5.326	ug/l	95
65) Chlorobenzene	11.438	112	68313	5.360	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	22770	5.281	ug/l	97
67) Ethyl Benzene	11.518	91	121323	5.241	ug/l	95
68) m/p-Xylenes	11.627	106	89333	10.448	ug/l	100
69) o-Xylene	11.950	106	41807	5.089	ug/l	97
70) Styrene	11.969	104	71087	5.129	ug/l	98
71) Bromoform	12.127	173	11616	5.032	ug/l #	96
73) Isopropylbenzene	12.255	105	113742	5.254	ug/l	99
74) N-amyl acetate	12.066	43	28262	4.929	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	20484	5.326	ug/l	92
76) 1,2,3-Trichloropropane	12.554	75	15329m	5.735	ug/l	
77) Bromobenzene	12.530	156	24308	5.292	ug/l	99
78) n-propylbenzene	12.591	91	136112	5.204	ug/l	100
79) 2-Chlorotoluene	12.676	91	80713	5.383	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	92022	5.264	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	6271	5.021	ug/l	97
82) 4-Chlorotoluene	12.773	91	81942	5.344	ug/l	100
83) tert-Butylbenzene	12.993	119	83271	5.317	ug/l	96
84) 1,2,4-Trimethylbenzene	13.042	105	90896	5.244	ug/l	99
85) sec-Butylbenzene	13.170	105	123488	5.278	ug/l	99
86) p-Isopropyltoluene	13.292	119	100964	5.314	ug/l	97
87) 1,3-Dichlorobenzene	13.286	146	50645	5.459	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	49614	5.444	ug/l	93
89) n-Butylbenzene	13.615	91	92858	5.005	ug/l	97
90) Hexachloroethane	13.883	117	18792	5.079	ug/l	95
91) 1,2-Dichlorobenzene	13.657	146	44165	5.418	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3426	5.581	ug/l	91
93) 1,2,4-Trichlorobenzene	14.919	180	22142	4.845	ug/l	97
94) Hexachlorobutadiene	15.023	225	12910	5.081	ug/l	98
95) Naphthalene	15.145	128	38238	4.436	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	18432	4.771	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019827.D
Acq On : 09 Oct 2024 10:18
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 10 05:15:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben
Patel

10/10/2024
Supervised By :Mahesh
Dadoda

10/10/2024

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\VY100924\
Data File : VY019827.D
Acq On : 09 Oct 2024 10:18
Operator : SY/MD
Sample : VSTDIC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

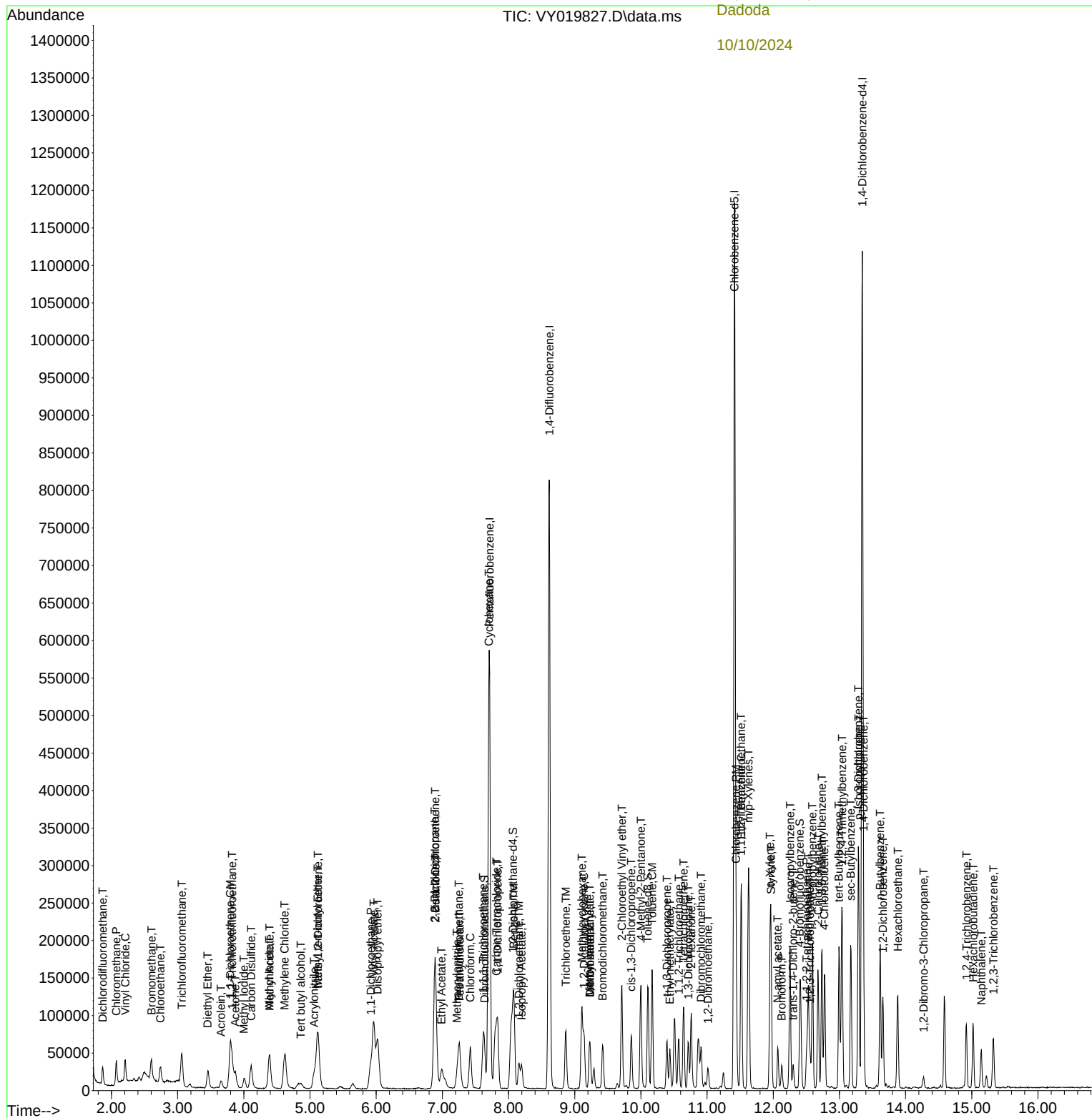
Quant Time: Oct 10 05:15:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben
Patel

10/10/2024
Supervised By :Mahesh
Dadoda

10/10/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019828.D
 Acq On : 09 Oct 2024 10:41
 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 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	361756	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	649579	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	541498	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	250102	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	47466	10.656	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	21.320%#		
35) Dibromofluoromethane	7.640	113	43577	10.166	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.340%#		
50) Toluene-d8	10.103	98	162940	10.293	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	20.580%#		
62) 4-Bromofluorobenzene	12.401	95	56875	9.944	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	19.880%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	36061	10.708	ug/l	93
3) Chloromethane	2.068	50	46110	10.520	ug/l	95
4) Vinyl Chloride	2.208	62	49569	10.277	ug/l	97
5) Bromomethane	2.598	94	32366	10.602	ug/l	96
6) Chloroethane	2.738	64	33901	10.462	ug/l	99
7) Trichlorofluoromethane	3.062	101	73540	10.247	ug/l	97
8) Diethyl Ether	3.458	74	21982	10.078	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	44208	10.590	ug/l	99
10) Methyl Iodide	4.007	142	42256	10.008	ug/l	98
11) Tert butyl alcohol	4.854	59	22157	47.157	ug/l #	93
12) 1,1-Dichloroethene	3.793	96	40380	10.405	ug/l	100
13) Acrolein	3.659	56	17589	53.740	ug/l	97
14) Allyl chloride	4.385	41	70509	10.069	ug/l	98
15) Acrylonitrile	5.061	53	49104	49.218	ug/l #	87
16) Acetone	3.872	43	56442	48.677	ug/l	95
17) Carbon Disulfide	4.104	76	100680	9.679	ug/l	95
18) Methyl Acetate	4.385	43	24175	9.678	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	112810	10.118	ug/l	97
20) Methylene Chloride	4.616	84	50288	10.746	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	43174	10.221	ug/l	90
22) Diisopropyl ether	6.024	45	160865	10.547	ug/l	96
23) Vinyl Acetate	5.964	43	440610	50.390	ug/l	99
24) 1,1-Dichloroethane	5.915	63	88167	10.399	ug/l	98
25) 2-Butanone	6.896	43	78586	50.633	ug/l	97
26) 2,2-Dichloropropane	6.884	77	77467	10.260	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	55404	10.614	ug/l	98
28) Bromochloromethane	7.244	49	34014	9.115	ug/l	99
29) Tetrahydrofuran	7.268	42	43254	48.809	ug/l	98
30) Chloroform	7.421	83	89550	10.361	ug/l	95
31) Cyclohexane	7.701	56	79459	10.676	ug/l #	93
32) 1,1,1-Trichloroethane	7.622	97	78955	10.424	ug/l	98
36) 1,1-Dichloropropene	7.835	75	60218	9.751	ug/l	97
37) Ethyl Acetate	6.982	43	30870	9.587	ug/l	98
38) Carbon Tetrachloride	7.817	117	65606	9.910	ug/l	95
39) Methylcyclohexane	9.103	83	75887	9.753	ug/l	95
40) Benzene	8.079	78	191485	10.246	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019828.D
 Acq On : 09 Oct 2024 10:41
 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 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	15599	8.950	ug/l #	86
42) 1,2-Dichloroethane	8.158	62	51825	9.652	ug/l	99
43) Isopropyl Acetate	8.201	43	63799	9.715	ug/l	98
44) Trichloroethene	8.865	130	44163	9.756	ug/l	88
45) 1,2-Dichloropropane	9.140	63	48706	10.412	ug/l	96
46) Dibromomethane	9.231	93	24667	9.651	ug/l	98
47) Bromodichloromethane	9.420	83	68101	10.039	ug/l	99
48) Methyl methacrylate	9.219	41	26161	9.056	ug/l	98
49) 1,4-Dioxane	9.225	88	5712	199.684	ug/l	93
51) 4-Methyl-2-Pentanone	9.999	43	160710	47.978	ug/l	99
52) Toluene	10.170	92	115871	9.932	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	58244	9.542	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	69712	9.679	ug/l	97
55) 1,1,2-Trichloroethane	10.566	97	33430	9.928	ug/l	98
56) Ethyl methacrylate	10.438	69	42834	8.865	ug/l	94
57) 1,3-Dichloropropane	10.713	76	59776	10.109	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	108860	48.397	ug/l	98
59) 2-Hexanone	10.761	43	112424	46.991	ug/l	100
60) Dibromochloromethane	10.908	129	41215	9.536	ug/l	99
61) 1,2-Dibromoethane	11.011	107	30363	9.978	ug/l	99
64) Tetrachloroethene	10.646	164	39617	10.286	ug/l	95
65) Chlorobenzene	11.438	112	126362	10.203	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	41840	9.985	ug/l	99
67) Ethyl Benzene	11.517	91	227448	10.109	ug/l	98
68) m/p-Xylenes	11.627	106	169252	20.369	ug/l	99
69) o-Xylene	11.950	106	81860	10.254	ug/l	98
70) Styrene	11.969	104	134039	9.951	ug/l	99
71) Bromoform	12.127	173	21482	9.576	ug/l #	99
73) Isopropylbenzene	12.249	105	218641	10.393	ug/l	100
74) N-amyl acetate	12.066	43	52756	9.468	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	36874	9.865	ug/l	95
76) 1,2,3-Trichloropropane	12.554	75	24777m	9.539	ug/l	
77) Bromobenzene	12.529	156	46028	10.311	ug/l	97
78) n-propylbenzene	12.590	91	262629	10.332	ug/l	100
79) 2-Chlorotoluene	12.676	91	150549	10.331	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	174773	10.287	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	11638	9.588	ug/l	96
82) 4-Chlorotoluene	12.773	91	156522	10.504	ug/l	98
83) tert-Butylbenzene	12.993	119	158944	10.443	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	172551	10.244	ug/l	99
85) sec-Butylbenzene	13.170	105	237239	10.433	ug/l	98
86) p-Isopropyltoluene	13.285	119	187930	10.178	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	94640	10.498	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	91597	10.342	ug/l	97
89) n-Butylbenzene	13.615	91	184390	10.227	ug/l	99
90) Hexachloroethane	13.877	117	36632	10.188	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	81041	10.231	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	5750	9.639	ug/l	91
93) 1,2,4-Trichlorobenzene	14.913	180	41597	9.365	ug/l	98
94) Hexachlorobutadiene	15.023	225	24452	9.902	ug/l	98
95) Naphthalene	15.139	128	72035	8.599	ug/l	98
96) 1,2,3-Trichlorobenzene	15.328	180	34928	9.303	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019828.D
Acq On : 09 Oct 2024 10:41
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 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

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

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

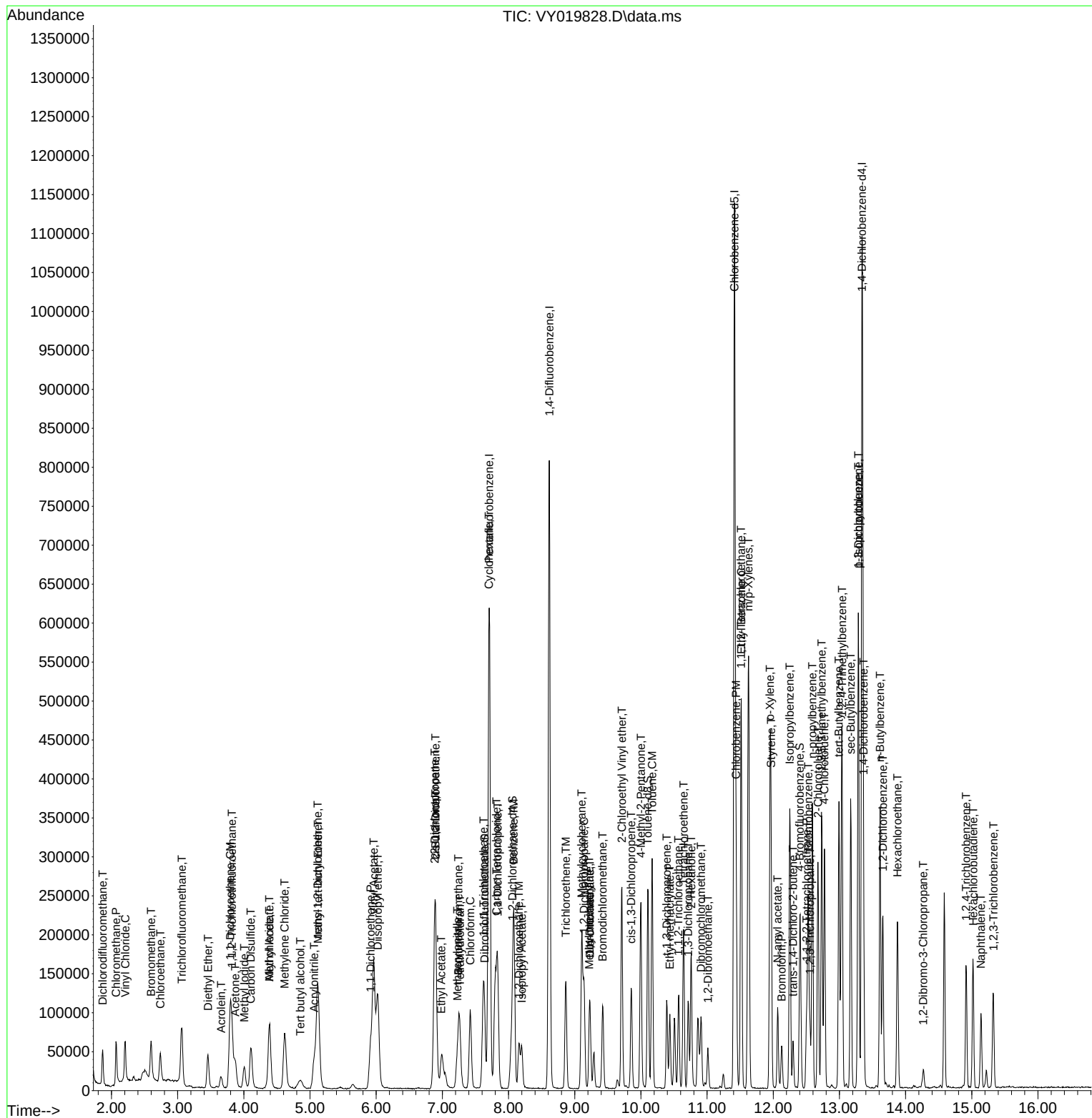
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019828.D
Acq On : 09 Oct 2024 10:41
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019829.D
 Acq On : 09 Oct 2024 11:04
 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 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	399493	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	686198	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	579144	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	274774	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	90500	18.398	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	36.800%	#	
35) Dibromofluoromethane	7.634	113	82440	18.206	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	36.420%	#	
50) Toluene-d8	10.103	98	311327	18.618	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	37.240%	#	
62) 4-Bromofluorobenzene	12.401	95	110377	18.268	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	36.540%	#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	65577	17.633	ug/l	99
3) Chloromethane	2.068	50	82646	17.075	ug/l	93
4) Vinyl Chloride	2.208	62	92581	17.381	ug/l	96
5) Bromomethane	2.592	94	57060	16.925	ug/l	90
6) Chloroethane	2.732	64	62255	17.398	ug/l	99
7) Trichlorofluoromethane	3.056	101	138779	17.510	ug/l	99
8) Diethyl Ether	3.458	74	42857	17.792	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	81370	17.650	ug/l	100
10) Methyl Iodide	4.000	142	82834	17.766	ug/l	99
11) Tert butyl alcohol	4.854	59	45691	104.433	ug/l #	82
12) 1,1-Dichloroethene	3.793	96	72442	16.903	ug/l	94
13) Acrolein	3.653	56	36692	101.515	ug/l	98
14) Allyl chloride	4.385	41	134749	17.426	ug/l	100
15) Acrylonitrile	5.061	53	95289	86.488	ug/l	99
16) Acetone	3.872	43	107331	83.821	ug/l	96
17) Carbon Disulfide	4.104	76	190574	16.590	ug/l	100
18) Methyl Acetate	4.391	43	48137	17.451	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	213153	17.312	ug/l	98
20) Methylene Chloride	4.616	84	88015	17.032	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	81678	17.511	ug/l	97
22) Diisopropyl ether	6.018	45	299406	17.776	ug/l	94
23) Vinyl Acetate	5.964	43	832605	86.226	ug/l	99
24) 1,1-Dichloroethane	5.915	63	163823	17.497	ug/l	98
25) 2-Butanone	6.890	43	148441	86.607	ug/l	99
26) 2,2-Dichloropropane	6.884	77	145596	17.461	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	100404	17.418	ug/l	98
28) Bromochloromethane	7.244	49	80239	19.470	ug/l	99
29) Tetrahydrofuran	7.262	42	83724	85.552	ug/l	100
30) Chloroform	7.421	83	168532	17.658	ug/l	93
31) Cyclohexane	7.701	56	137858	16.773	ug/l #	95
32) 1,1,1-Trichloroethane	7.622	97	146196	17.478	ug/l	99
36) 1,1-Dichloropropene	7.835	75	113949	17.467	ug/l	99
37) Ethyl Acetate	6.982	43	59463	17.481	ug/l	98
38) Carbon Tetrachloride	7.817	117	122286	17.486	ug/l	98
39) Methylcyclohexane	9.109	83	140509	17.094	ug/l	95
40) Benzene	8.079	78	352281	17.843	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019829.D
 Acq On : 09 Oct 2024 11:04
 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 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	33626	18.264	ug/l	94
42) 1,2-Dichloroethane	8.158	62	100933	17.795	ug/l	100
43) Isopropyl Acetate	8.195	43	119654	17.248	ug/l	100
44) Trichloroethene	8.865	130	82242	17.199	ug/l	98
45) 1,2-Dichloropropane	9.140	63	88245	17.858	ug/l	97
46) Dibromomethane	9.231	93	47694	17.665	ug/l	99
47) Bromodichloromethane	9.420	83	125156	17.464	ug/l	99
48) Methyl methacrylate	9.219	41	51848	16.991	ug/l	97
49) 1,4-Dioxane	9.225	88	10924	361.508	ug/l	100
51) 4-Methyl-2-Pentanone	9.999	43	302570	85.508	ug/l	100
52) Toluene	10.170	92	219564	17.816	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	112037	17.376	ug/l	96
54) cis-1,3-Dichloropropene	9.853	75	134322	17.655	ug/l	97
55) 1,1,2-Trichloroethane	10.566	97	63230	17.776	ug/l	96
56) Ethyl methacrylate	10.438	69	86703	16.987	ug/l	99
57) 1,3-Dichloropropane	10.713	76	109903	17.594	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	224798	94.607	ug/l	99
59) 2-Hexanone	10.755	43	219312	86.777	ug/l	100
60) Dibromochloromethane	10.908	129	80781	17.693	ug/l	97
61) 1,2-Dibromoethane	11.011	107	56934	17.712	ug/l	99
64) Tetrachloroethene	10.646	164	73174	17.763	ug/l	95
65) Chlorobenzene	11.438	112	239056	18.047	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	81007	18.075	ug/l	99
67) Ethyl Benzene	11.517	91	431084	17.915	ug/l	99
68) m/p-Xylenes	11.627	106	320381	36.051	ug/l	99
69) o-Xylene	11.950	106	154055	18.042	ug/l	99
70) Styrene	11.969	104	259526	18.015	ug/l	99
71) Bromoform	12.127	173	41644	17.357	ug/l #	99
73) Isopropylbenzene	12.249	105	416954	18.041	ug/l	99
74) N-amyl acetate	12.066	43	106042	17.323	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	72967	17.768	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	57760m	20.240	ug/l	
77) Bromobenzene	12.529	156	86210	17.578	ug/l	99
78) n-propylbenzene	12.590	91	507193	18.161	ug/l	100
79) 2-Chlorotoluene	12.676	91	286378	17.887	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	337042	18.057	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	22618	16.960	ug/l	99
82) 4-Chlorotoluene	12.773	91	291230	17.790	ug/l	100
83) tert-Butylbenzene	12.993	119	297787	17.809	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	332348	17.959	ug/l	99
85) sec-Butylbenzene	13.170	105	440520	17.633	ug/l	100
86) p-Isopropyltoluene	13.285	119	359998	17.746	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	175584	17.728	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	172734	17.752	ug/l	98
89) n-Butylbenzene	13.615	91	349496	17.644	ug/l	100
90) Hexachloroethane	13.877	117	67690	17.136	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	155633	17.883	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	11020	16.814	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	83360	17.083	ug/l	99
94) Hexachlorobutadiene	15.023	225	46439	17.117	ug/l	97
95) Naphthalene	15.139	128	152742	16.596	ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	69691	16.894	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019829.D
Acq On : 09 Oct 2024 11:04
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 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

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

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

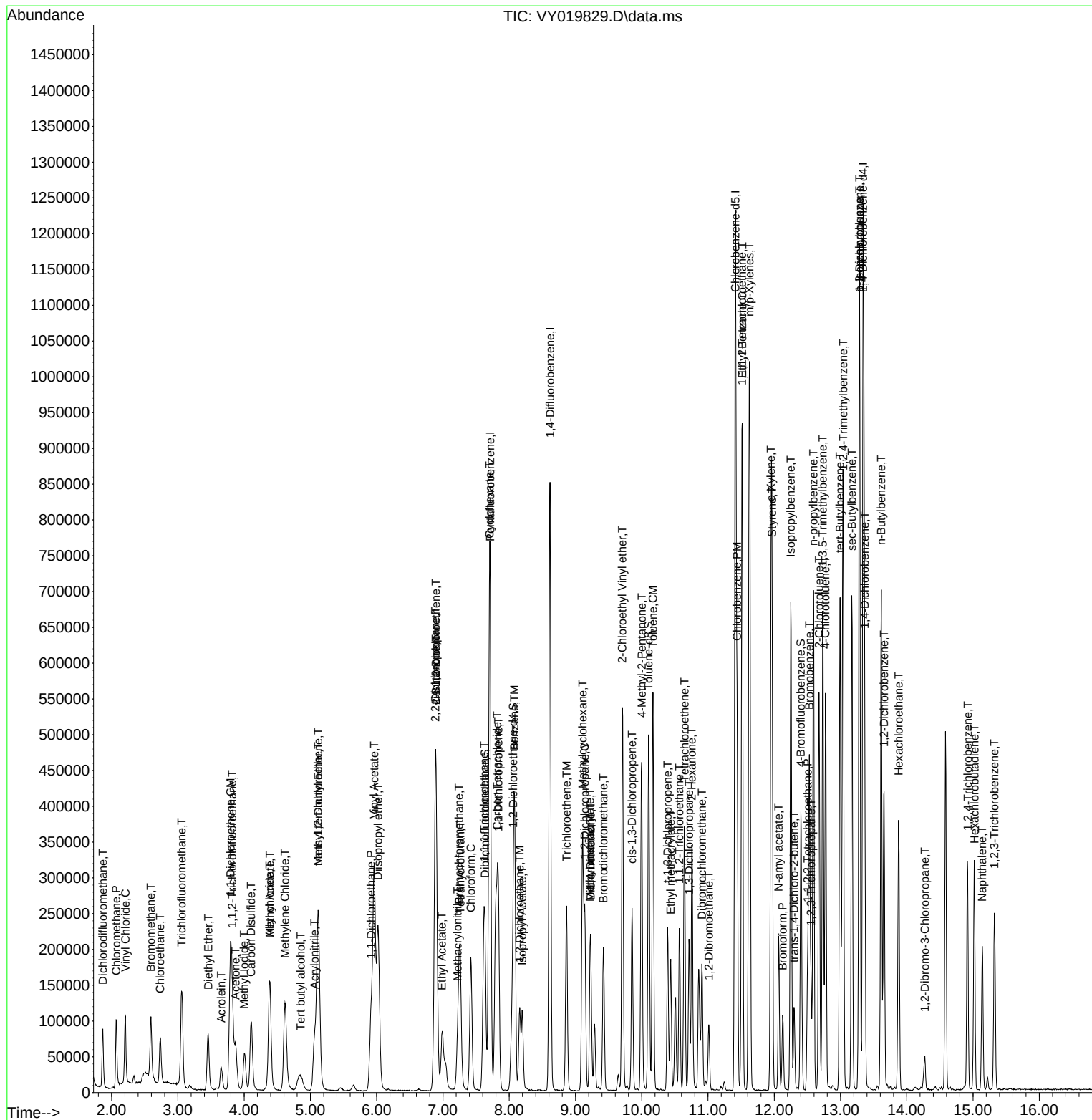
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Data File : VY019829.D
Acq On : 09 Oct 2024 11:04
Operator : SY/MD
Sample : VSTDIC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:16:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019830.D
 Acq On : 09 Oct 2024 11:26
 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 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:17:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	376582	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	652229	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	562284	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	271955	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	218635	47.152	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	94.300%
35) Dibromofluoromethane	7.634	113	209339	48.638	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.280%
50) Toluene-d8	10.103	98	772997	48.634	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.260%
62) 4-Bromofluorobenzene	12.401	95	277970	48.402	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	96.800%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	172619	49.240	ug/l	100
3) Chloromethane	2.068	50	231921	50.830	ug/l	100
4) Vinyl Chloride	2.202	62	259124	51.608	ug/l	100
5) Bromomethane	2.598	94	163168	51.342	ug/l	100
6) Chloroethane	2.732	64	171731	50.912	ug/l	100
7) Trichlorofluoromethane	3.062	101	376466	50.389	ug/l	100
8) Diethyl Ether	3.458	74	118188	52.051	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	218828	50.355	ug/l	100
10) Methyl Iodide	4.007	142	238365	54.233	ug/l	100
11) Tert butyl alcohol	4.854	59	94744	252.374	ug/l	100
12) 1,1-Dichloroethene	3.793	96	206999	51.238	ug/l	100
13) Acrolein	3.653	56	75001	220.129	ug/l	100
14) Allyl chloride	4.385	41	380793	52.240	ug/l	100
15) Acrylonitrile	5.055	53	270020	259.992	ug/l	100
16) Acetone	3.866	43	320427	265.464	ug/l	100
17) Carbon Disulfide	4.110	76	584406	53.968	ug/l	100
18) Methyl Acetate	4.385	43	131986	50.760	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	592784	51.073	ug/l	100
20) Methylene Chloride	4.616	84	233261	47.884	ug/l	100
21) trans-1,2-Dichloroethene	5.116	96	228011	51.856	ug/l	100
22) Diisopropyl ether	6.024	45	815528	51.364	ug/l	100
23) Vinyl Acetate	5.964	43	2401557	263.841	ug/l	100
24) 1,1-Dichloroethane	5.921	63	452600	51.280	ug/l	100
25) 2-Butanone	6.896	43	417253	258.255	ug/l	100
26) 2,2-Dichloropropane	6.884	77	393618	50.078	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	278623	51.276	ug/l	100
28) Bromochloromethane	7.244	49	199378	51.324	ug/l	100
29) Tetrahydrofuran	7.256	42	240189	260.365	ug/l	100
30) Chloroform	7.421	83	461316	51.274	ug/l	100
31) Cyclohexane	7.701	56	380045	49.053	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	401679	50.944	ug/l	100
36) 1,1-Dichloropropene	7.835	75	323381	52.153	ug/l	100
37) Ethyl Acetate	6.982	43	168308	52.055	ug/l	100
38) Carbon Tetrachloride	7.817	117	343937	51.741	ug/l	100
39) Methylcyclohexane	9.109	83	410379	52.526	ug/l	100
40) Benzene	8.079	78	970532	51.718	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019830.D
 Acq On : 09 Oct 2024 11:26
 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 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:17:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	101564	58.039	ug/l	100
42) 1,2-Dichloroethane	8.158	62	280666	52.060	ug/l	100
43) Isopropyl Acetate	8.195	43	341732	51.825	ug/l	100
44) Trichloroethene	8.865	130	238984	52.581	ug/l	100
45) 1,2-Dichloropropane	9.140	63	238678	50.815	ug/l	100
46) Dibromomethane	9.231	93	132799	51.749	ug/l	100
47) Bromodichloromethane	9.420	83	353916	51.958	ug/l	100
48) Methyl methacrylate	9.219	41	154785	53.365	ug/l	100
49) 1,4-Dioxane	9.225	88	30969	1078.234	ug/l	100
51) 4-Methyl-2-Pentanone	9.999	43	877883	261.016	ug/l	100
52) Toluene	10.170	92	613036	52.335	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	324446	52.938	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	377341	52.179	ug/l	100
55) 1,1,2-Trichloroethane	10.572	97	175360	51.866	ug/l	100
56) Ethyl methacrylate	10.438	69	263123	54.236	ug/l	100
57) 1,3-Dichloropropane	10.713	76	309112	52.061	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	556812	246.542	ug/l	100
59) 2-Hexanone	10.755	43	641505	267.049	ug/l	100
60) Dibromochloromethane	10.908	129	224272	51.680	ug/l	100
61) 1,2-Dibromoethane	11.011	107	160393	52.497	ug/l	100
64) Tetrachloroethene	10.646	164	206807	51.709	ug/l	100
65) Chlorobenzene	11.438	112	658325	51.188	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.511	131	223562	51.379	ug/l	100
67) Ethyl Benzene	11.517	91	1216822	52.085	ug/l	100
68) m/p-Xylenes	11.627	106	895487	103.787	ug/l	100
69) o-Xylene	11.950	106	432232	52.139	ug/l	100
70) Styrene	11.969	104	733231	52.425	ug/l	100
71) Bromoform	12.127	173	123682	53.097	ug/l #	100
73) Isopropylbenzene	12.249	105	1160583	50.736	ug/l	100
74) N-amyl acetate	12.066	43	319155	52.678	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	207455	51.039	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	137865m	48.811	ug/l	100
77) Bromobenzene	12.529	156	248295	51.151	ug/l	100
78) n-propylbenzene	12.590	91	1417674	51.290	ug/l	100
79) 2-Chlorotoluene	12.676	91	808973	51.052	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	943653	51.081	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	68301	51.748	ug/l	100
82) 4-Chlorotoluene	12.773	91	823660	50.835	ug/l	100
83) tert-Butylbenzene	12.993	119	843078	50.943	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	942572	51.463	ug/l	100
85) sec-Butylbenzene	13.170	105	1283255	51.898	ug/l	100
86) p-Isopropyltoluene	13.285	119	1036077	51.602	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	494583	50.453	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	489868	50.867	ug/l	100
89) n-Butylbenzene	13.615	91	1040714	53.083	ug/l	100
90) Hexachloroethane	13.877	117	200883	51.381	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	438452	50.904	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	32794	50.555	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	262465	54.343	ug/l	100
94) Hexachlorobutadiene	15.017	225	143964	53.614	ug/l	100
95) Naphthalene	15.139	128	501768	55.083	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	223695	54.790	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019830.D
Acq On : 09 Oct 2024 11:26
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 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:17:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

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

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

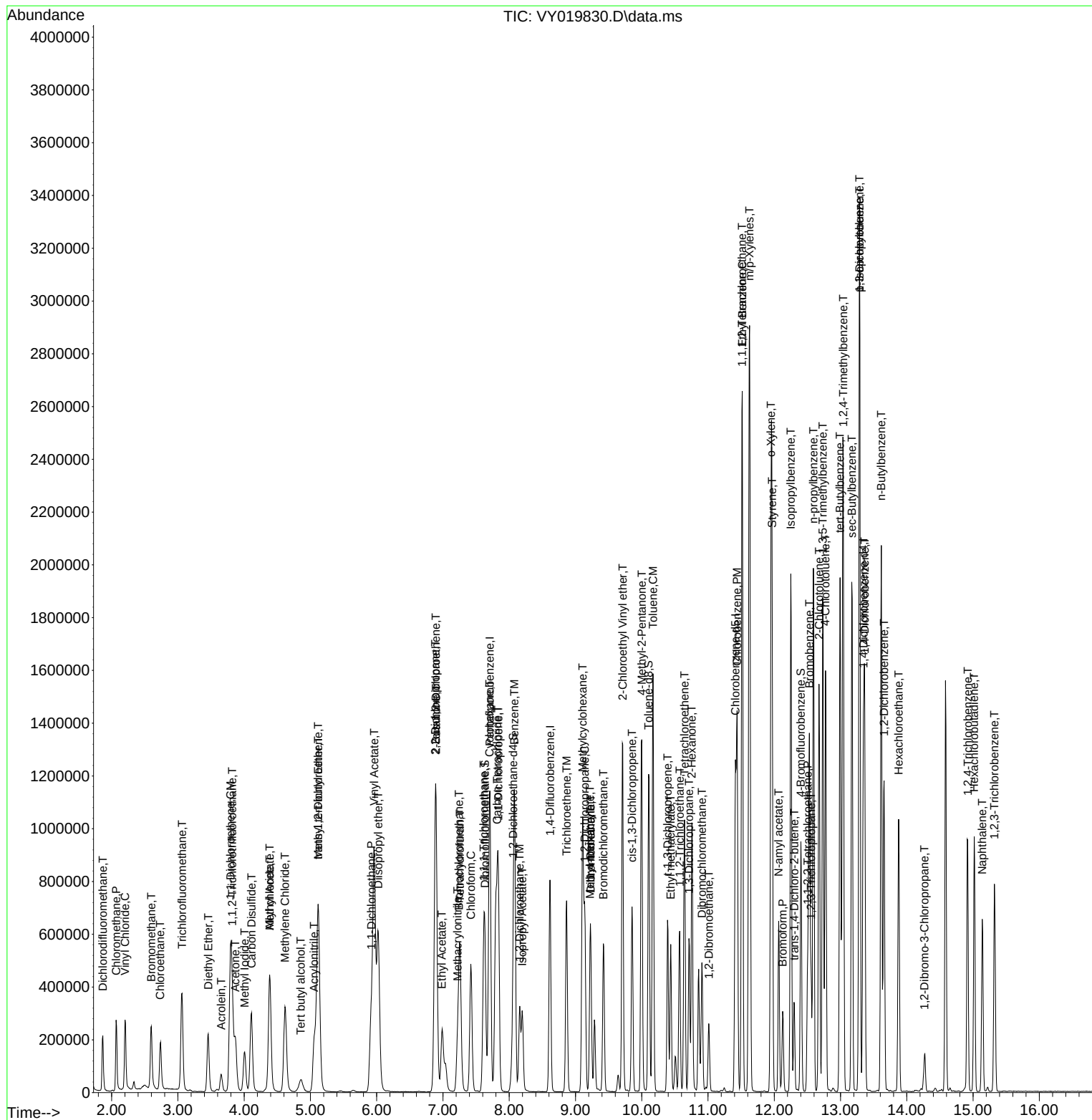
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019830.D
Acq On : 09 Oct 2024 11:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Oct 10 05:17:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019831.D
 Acq On : 09 Oct 2024 11:49
 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 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:18:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	399543	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	674919	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	589258	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	280903	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	466054	94.735	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 189.480%#			
35) Dibromofluoromethane	7.634	113	439652	98.716	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 197.440%#			
50) Toluene-d8	10.103	98	1608316	97.788	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 195.580%#			
62) 4-Bromofluorobenzene	12.402	95	576291	96.973	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 193.940%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	346639	93.197	ug/l	99
3) Chloromethane	2.068	50	439794	90.849	ug/l	97
4) Vinyl Chloride	2.202	62	498744	93.624	ug/l	98
5) Bromomethane	2.592	94	311487	92.379	ug/l	98
6) Chloroethane	2.733	64	326380	91.200	ug/l	99
7) Trichlorofluoromethane	3.056	101	731395	92.270	ug/l	98
8) Diethyl Ether	3.458	74	227317	94.358	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	427581	92.738	ug/l	99
10) Methyl Iodide	4.007	142	454738	97.517	ug/l	99
11) Tert butyl alcohol	4.860	59	188738	490.425	ug/l	100
12) 1,1-Dichloroethene	3.787	96	399038	93.096	ug/l	98
13) Acrolein	3.653	56	145388	402.193	ug/l	99
14) Allyl chloride	4.385	41	720821	93.204	ug/l	99
15) Acrylonitrile	5.061	53	528321	479.466	ug/l	100
16) Acetone	3.866	43	607853	474.648	ug/l	100
17) Carbon Disulfide	4.104	76	1121588	97.624	ug/l	100
18) Methyl Acetate	4.385	43	256490	92.974	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	1152848	93.619	ug/l	99
20) Methylene Chloride	4.622	84	434102	83.991	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	437256	93.729	ug/l	99
22) Diisopropyl ether	6.019	45	1551540	92.103	ug/l	98
23) Vinyl Acetate	5.964	43	4640029	480.470	ug/l	99
24) 1,1-Dichloroethane	5.915	63	865956	92.476	ug/l	100
25) 2-Butanone	6.896	43	802529	468.172	ug/l	98
26) 2,2-Dichloropropane	6.890	77	755135	90.550	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	534246	92.669	ug/l	99
28) Bromochloromethane	7.244	49	385755	93.594	ug/l	98
29) Tetrahydrofuran	7.262	42	470106	480.310	ug/l	100
30) Chloroform	7.421	83	880963	92.290	ug/l	97
31) Cyclohexane	7.701	56	731399	88.978	ug/l	96
32) 1,1,1-Trichloroethane	7.622	97	781774	93.453	ug/l	99
36) 1,1-Dichloropropene	7.835	75	614134	95.713	ug/l	99
37) Ethyl Acetate	6.988	43	333253	99.605	ug/l	100
38) Carbon Tetrachloride	7.817	117	668267	97.152	ug/l	97
39) Methylcyclohexane	9.109	83	784660	97.056	ug/l	99
40) Benzene	8.079	78	1836648	94.582	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019831.D
 Acq On : 09 Oct 2024 11:49
 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 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:18:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	174585	96.413	ug/l	90
42) 1,2-Dichloroethane	8.158	62	537873	96.414	ug/l	100
43) Isopropyl Acetate	8.195	43	670131	98.212	ug/l #	89
44) Trichloroethene	8.866	130	449896	95.657	ug/l	97
45) 1,2-Dichloropropane	9.140	63	454844	93.582	ug/l	97
46) Dibromomethane	9.231	93	253769	95.564	ug/l	99
47) Bromodichloromethane	9.420	83	676772	96.016	ug/l	99
48) Methyl methacrylate	9.219	41	307095	102.316	ug/l	98
49) 1,4-Dioxane	9.225	88	58595	1971.492	ug/l	92
51) 4-Methyl-2-Pentanone	9.999	43	1712900	492.165	ug/l	99
52) Toluene	10.170	92	1169222	96.461	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	625756	98.669	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	731095	97.697	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	334601	95.637	ug/l	99
56) Ethyl methacrylate	10.438	69	513797	102.346	ug/l	99
57) 1,3-Dichloropropane	10.713	76	592969	96.510	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	1185407	507.222	ug/l	99
59) 2-Hexanone	10.755	43	1250214	502.949	ug/l	100
60) Dibromochloromethane	10.908	129	443160	98.687	ug/l	97
61) 1,2-Dibromoethane	11.012	107	304519	96.320	ug/l	99
64) Tetrachloroethene	10.646	164	386629	92.245	ug/l	98
65) Chlorobenzene	11.438	112	1254471	93.077	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	431042	94.527	ug/l	99
67) Ethyl Benzene	11.518	91	2301755	94.015	ug/l	99
68) m/p-Xylenes	11.627	106	1696340	187.606	ug/l	100
69) o-Xylene	11.950	106	824619	94.919	ug/l	100
70) Styrene	11.969	104	1403875	95.780	ug/l	100
71) Bromoform	12.127	173	240288	98.434	ug/l #	100
73) Isopropylbenzene	12.249	105	2198054	93.029	ug/l	100
74) N-amyl acetate	12.066	43	630968	100.827	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	403664	96.148	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	268287m	91.961	ug/l	
77) Bromobenzene	12.530	156	472215	94.181	ug/l	99
78) n-propylbenzene	12.591	91	2669979	93.520	ug/l	99
79) 2-Chlorotoluene	12.676	91	1509965	92.254	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	1786278	93.613	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	136172	99.883	ug/l	96
82) 4-Chlorotoluene	12.773	91	1544655	92.297	ug/l	99
83) tert-Butylbenzene	12.993	119	1589606	92.992	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	1772395	93.687	ug/l	100
85) sec-Butylbenzene	13.170	105	2369538	92.778	ug/l	100
86) p-Isopropyltoluene	13.286	119	1943974	93.735	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	927379	91.590	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	918591	92.346	ug/l	100
89) n-Butylbenzene	13.615	91	1918293	94.728	ug/l	100
90) Hexachloroethane	13.877	117	388866	96.294	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	828259	93.096	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	66288	98.933	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	497483	99.722	ug/l	100
94) Hexachlorobutadiene	15.017	225	265216	95.624	ug/l	99
95) Naphthalene	15.139	128	1014718	107.846	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	427428	101.356	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019831.D
Acq On : 09 Oct 2024 11:49
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 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 2024
Response via : Initial Calibration

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

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

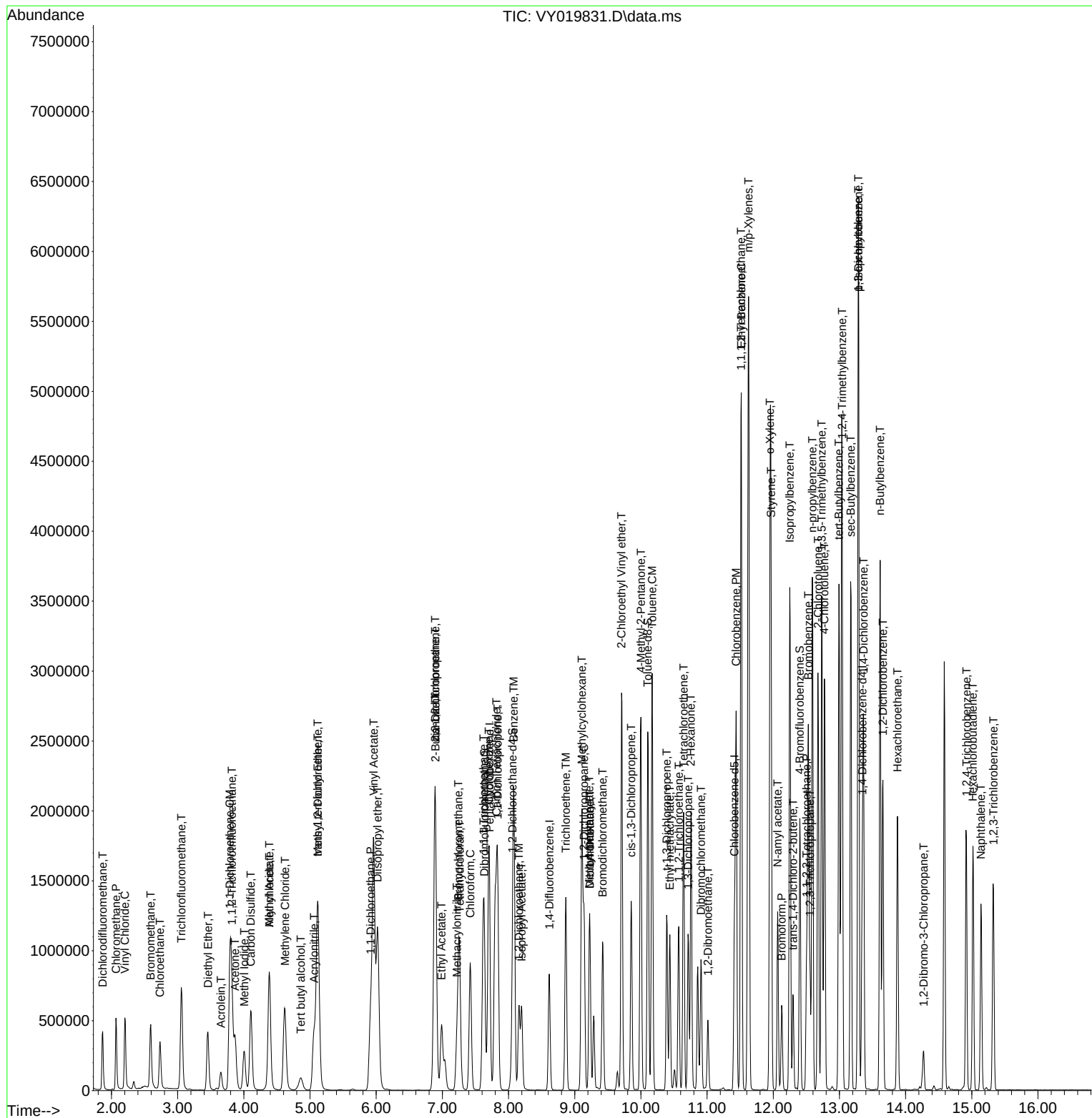
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019831.D
 Acq On : 09 Oct 2024 11:49
 Operator : SY/MD
 Sample : VSTDIC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC100

Quant Time: Oct 10 05:18:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019832.D
 Acq On : 09 Oct 2024 12:11
 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 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:19:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	396915	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	678680	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	586330	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	274686	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	722957	147.929	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 295.860%#			
35) Dibromofluoromethane	7.634	113	694656	155.108	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 310.220%#			
50) Toluene-d8	10.109	98	2537328	153.418	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 306.840%#			
62) 4-Bromofluorobenzene	12.402	95	916338	153.339	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 306.680%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	585892	158.565	ug/l	98
3) Chloromethane	2.068	50	798560	166.053	ug/l	99
4) Vinyl Chloride	2.202	62	852845	161.156	ug/l	100
5) Bromomethane	2.592	94	531912	158.796	ug/l	100
6) Chloroethane	2.733	64	561947	158.064	ug/l	97
7) Trichlorofluoromethane	3.056	101	1251005	158.867	ug/l	96
8) Diethyl Ether	3.458	74	383280	160.151	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	721787	157.584	ug/l	99
10) Methyl Iodide	4.007	142	747271	161.311	ug/l	100
11) Tert butyl alcohol	4.885	59	284963	755.176	ug/l	99
12) 1,1-Dichloroethene	3.787	96	679168	159.500	ug/l	95
13) Acrolein	3.659	56	236461	658.464	ug/l	98
14) Allyl chloride	4.385	41	1216534	158.343	ug/l	100
15) Acrylonitrile	5.061	53	848983	775.578	ug/l	100
16) Acetone	3.879	43	912619	717.346	ug/l	97
17) Carbon Disulfide	4.104	76	1888753	165.487	ug/l	100
18) Methyl Acetate	4.391	43	442370	161.415	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	1925958	157.437	ug/l	98
20) Methylene Chloride	4.616	84	717870	139.815	ug/l	99
21) trans-1,2-Dichloroethene	5.116	96	729032	157.309	ug/l	99
22) Diisopropyl ether	6.025	45	2570555	153.605	ug/l	98
23) Vinyl Acetate	5.964	43	7535742	785.485	ug/l	100
24) 1,1-Dichloroethane	5.915	63	1445405	155.378	ug/l	99
25) 2-Butanone	6.896	43	1256383	737.790	ug/l	97
26) 2,2-Dichloropropane	6.884	77	1264317	152.611	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	891915	155.734	ug/l	99
28) Bromochloromethane	7.244	49	599875	146.508	ug/l	99
29) Tetrahydrofuran	7.268	42	743751	764.926	ug/l	99
30) Chloroform	7.421	83	1464004	154.385	ug/l	99
31) Cyclohexane	7.701	56	1219720	149.367	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	1323990	159.317	ug/l	100
36) 1,1-Dichloropropene	7.835	75	1036099	160.582	ug/l	99
37) Ethyl Acetate	6.988	43	525554	156.210	ug/l	100
38) Carbon Tetrachloride	7.817	117	1138895	164.654	ug/l	99
39) Methylcyclohexane	9.109	83	1339043	164.711	ug/l	98
40) Benzene	8.079	78	3082261	157.848	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019832.D
 Acq On : 09 Oct 2024 12:11
 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 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:19:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:14:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	307343	168.786	ug/l	94
42) 1,2-Dichloroethane	8.158	62	888679	158.413	ug/l	99
43) Isopropyl Acetate	8.201	43	1096296	159.778	ug/l	100
44) Trichloroethene	8.866	130	754171	159.464	ug/l	95
45) 1,2-Dichloropropane	9.140	63	755395	154.558	ug/l	98
46) Dibromomethane	9.231	93	417621	156.395	ug/l	98
47) Bromodichloromethane	9.420	83	1139669	160.793	ug/l	99
48) Methyl methacrylate	9.219	41	525958	174.265	ug/l	96
49) 1,4-Dioxane	9.237	88	92452	3093.409	ug/l	92
51) 4-Methyl-2-Pentanone	9.999	43	2795976	798.912	ug/l	100
52) Toluene	10.170	92	1953896	160.303	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	1067220	167.346	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	1228314	163.232	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	552194	156.956	ug/l	99
56) Ethyl methacrylate	10.438	69	867997	171.943	ug/l	100
57) 1,3-Dichloropropane	10.713	76	969272	156.883	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	1849035	786.796	ug/l	99
59) 2-Hexanone	10.762	43	2004280	801.835	ug/l	99
60) Dibromochloromethane	10.908	129	741465	164.201	ug/l	98
61) 1,2-Dibromoethane	11.012	107	505709	159.070	ug/l	99
64) Tetrachloroethene	10.646	164	664013	159.217	ug/l	98
65) Chlorobenzene	11.438	112	2113807	157.620	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	727387	160.312	ug/l	99
67) Ethyl Benzene	11.518	91	3885454	159.494	ug/l	98
68) m/p-Xylenes	11.627	106	2859768	317.854	ug/l	99
69) o-Xylene	11.950	106	1377967	159.404	ug/l	100
70) Styrene	11.969	104	2345126	160.796	ug/l	99
71) Bromoform	12.127	173	408699	168.260	ug/l #	99
73) Isopropylbenzene	12.255	105	3683189	159.413	ug/l	100
74) N-amyl acetate	12.066	43	1045778	170.894	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	663721	161.669	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	430858m	151.028	ug/l	
77) Bromobenzene	12.530	156	784626	160.032	ug/l	99
78) n-propylbenzene	12.591	91	4426286	158.547	ug/l	99
79) 2-Chlorotoluene	12.676	91	2526778	157.872	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	2960841	158.681	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	231021	173.290	ug/l	95
82) 4-Chlorotoluene	12.773	91	2581267	157.729	ug/l	100
83) tert-Butylbenzene	12.993	119	2640275	157.952	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	2948705	159.393	ug/l	100
85) sec-Butylbenzene	13.176	105	3947759	158.071	ug/l	100
86) p-Isopropyltoluene	13.292	119	3233062	159.421	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	1554919	157.043	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	1529859	157.278	ug/l	99
89) n-Butylbenzene	13.615	91	3223421	162.780	ug/l	99
90) Hexachloroethane	13.877	117	662225	167.697	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	1370278	157.505	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	106025	161.821	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	846149	173.453	ug/l	100
94) Hexachlorobutadiene	15.023	225	451281	166.393	ug/l	99
95) Naphthalene	15.139	128	1715521	186.455	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	718465	174.226	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019832.D
Acq On : 09 Oct 2024 12:11
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 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:19:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:14:43 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\VY100924\
 Data File : VY019832.D
 Acq On : 09 Oct 2024 12:11
 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 10/10/2024

Supervised By :Mahesh Dadoda 10/10/2024

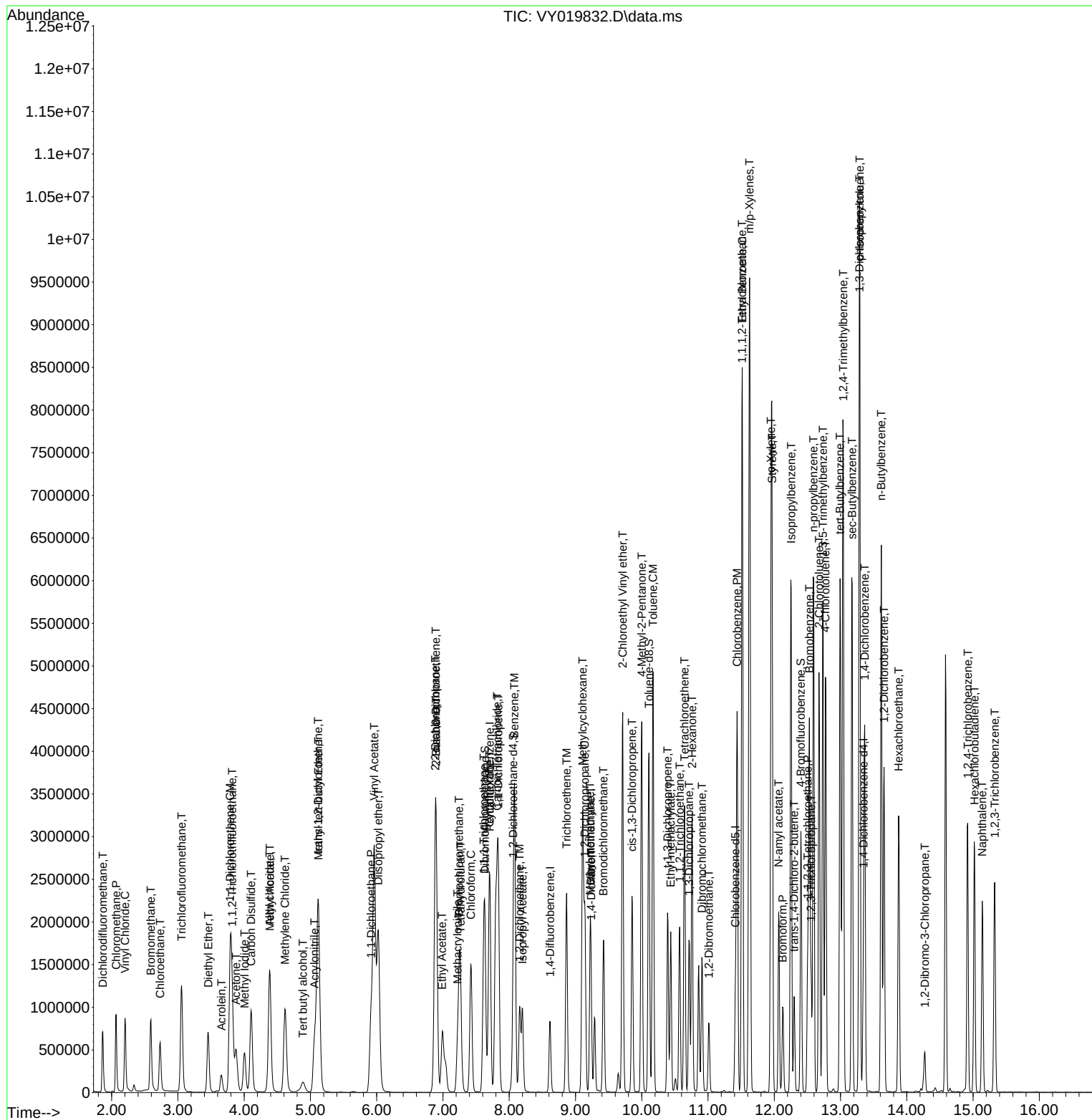
Quant Time: Oct 10 05:19:17 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M

Quant Title : SW846 8260

QLast Update : Thu Oct 10 05:14:43 2024

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100924

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	430698	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	723884	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	604297	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	285838	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	233998	44.124	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	88.240%
35) Dibromofluoromethane	7.634	113	228064	47.744	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.480%
50) Toluene-d8	10.103	98	855648	48.506	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.020%
62) 4-Bromofluorobenzene	12.401	95	297494	46.674	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	93.340%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	211482	52.746	ug/l	100
3) Chloromethane	2.074	50	267731	51.305	ug/l	98
4) Vinyl Chloride	2.208	62	302525	52.682	ug/l	99
5) Bromomethane	2.598	94	188629	51.896	ug/l	99
6) Chloroethane	2.738	64	194374	50.385	ug/l	92
7) Trichlorofluoromethane	3.062	101	443589	51.914	ug/l	99
8) Diethyl Ether	3.458	74	129997	50.058	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	257043	51.717	ug/l	100
10) Methyl Iodide	4.007	142	265733	52.864	ug/l	98
11) Tert butyl alcohol	4.866	59	97246	224.555	ug/l	100
12) 1,1-Dichloroethene	3.793	96	241587	52.286	ug/l	97
13) Acrolein	3.653	56	96920	248.720	ug/l	99
14) Allyl chloride	4.391	41	428800	51.434	ug/l	99
15) Acrylonitrile	5.067	53	282187	237.568	ug/l	100
16) Acetone	3.872	43	324300	234.915	ug/l	99
17) Carbon Disulfide	4.110	76	676399	54.615	ug/l	99
18) Methyl Acetate	4.385	43	140374	47.203	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	649655	48.940	ug/l	96
20) Methylene Chloride	4.622	84	260836	46.817	ug/l	98
21) trans-1,2-Dichloroethene	5.122	96	259294	51.561	ug/l	96
22) Diisopropyl ether	6.018	45	902486	49.699	ug/l	98
23) Vinyl Acetate	5.964	43	2572778	247.138	ug/l	99
24) 1,1-Dichloroethane	5.915	63	509324	50.457	ug/l	99
25) 2-Butanone	6.896	43	425540	230.290	ug/l	99
26) 2,2-Dichloropropane	6.884	77	463783	51.590	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	314625	50.626	ug/l	99
28) Bromochloromethane	7.244	49	205401	46.231	ug/l	99
29) Tetrahydrofuran	7.262	42	245375	232.566	ug/l	99
30) Chloroform	7.421	83	518647	50.403	ug/l	97
31) Cyclohexane	7.701	56	438371	49.472	ug/l	99
32) 1,1,1-Trichloroethane	7.622	97	466878	51.773	ug/l	100
36) 1,1-Dichloropropene	7.835	75	373449	54.265	ug/l	99
37) Ethyl Acetate	6.988	43	176947	49.310	ug/l	100
38) Carbon Tetrachloride	7.817	117	405617	54.980	ug/l	96
39) Methylcyclohexane	9.109	83	466748	53.828	ug/l	99
40) Benzene	8.079	78	1094650	52.558	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100924

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/10/2024
 Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	90045	46.363	ug/l #	86
42) 1,2-Dichloroethane	8.158	62	303059	50.649	ug/l	99
43) Isopropyl Acetate	8.195	43	360757	49.295	ug/l	100
44) Trichloroethene	8.865	130	268143	53.156	ug/l	98
45) 1,2-Dichloropropane	9.140	63	266447	51.112	ug/l	99
46) Dibromomethane	9.231	93	142048	49.874	ug/l	100
47) Bromodichloromethane	9.420	83	389060	51.464	ug/l	99
48) Methyl methacrylate	9.219	41	168043	52.201	ug/l	97
49) 1,4-Dioxane	9.231	88	29492	925.169	ug/l	90
51) 4-Methyl-2-Pentanone	9.999	43	913222	244.646	ug/l	100
52) Toluene	10.170	92	688634	52.969	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	350338	51.505	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	414888	51.692	ug/l	100
55) 1,1,2-Trichloroethane	10.572	97	188507	50.235	ug/l	98
56) Ethyl methacrylate	10.438	69	277264	51.494	ug/l	99
57) 1,3-Dichloropropane	10.719	76	327837	49.749	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	593052	236.595	ug/l	99
59) 2-Hexanone	10.755	43	658677	247.056	ug/l	99
60) Dibromochloromethane	10.908	129	242202	50.287	ug/l	99
61) 1,2-Dibromoethane	11.011	107	165931	48.934	ug/l	99
64) Tetrachloroethene	10.646	164	224993	52.345	ug/l	99
65) Chlorobenzene	11.438	112	731619	52.932	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.511	131	246451	52.701	ug/l	99
67) Ethyl Benzene	11.517	91	1358983	54.126	ug/l	99
68) m/p-Xylenes	11.627	106	998713	107.703	ug/l	100
69) o-Xylene	11.950	106	475544	53.376	ug/l	100
70) Styrene	11.969	104	798999	53.155	ug/l	100
71) Bromoform	12.133	173	129999	51.929	ug/l #	99
73) Isopropylbenzene	12.255	105	1291391	53.712	ug/l	100
74) N-amyl acetate	12.066	43	333199	52.325	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	213934	50.077	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	147134m	49.434	ug/l	
77) Bromobenzene	12.529	156	266033	52.143	ug/l	99
78) n-propylbenzene	12.590	91	1580208	54.394	ug/l	100
79) 2-Chlorotoluene	12.676	91	884605	53.113	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	1042089	53.670	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	72989	52.613	ug/l	97
82) 4-Chlorotoluene	12.773	91	904186	53.095	ug/l	99
83) tert-Butylbenzene	12.993	119	928800	53.397	ug/l	99
84) 1,2,4-Trimethylbenzene	13.041	105	1023548	53.170	ug/l	100
85) sec-Butylbenzene	13.176	105	1396101	53.720	ug/l	100
86) p-Isopropyltoluene	13.285	119	1126019	53.357	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	533804	51.809	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	518316	51.207	ug/l	100
89) n-Butylbenzene	13.615	91	1122433	54.470	ug/l	100
90) Hexachloroethane	13.877	117	224415	54.612	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	465022	51.366	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	33414	49.008	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	269549	53.099	ug/l	99
94) Hexachlorobutadiene	15.023	225	148493	52.615	ug/l	100
95) Naphthalene	15.139	128	506717	52.925	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	224718	52.368	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019834.D
Acq On : 09 Oct 2024 15:25
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100924

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/10/2024
Supervised By :Mahesh Dadoda 10/10/2024

Quant Time: Oct 10 05:34:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

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

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

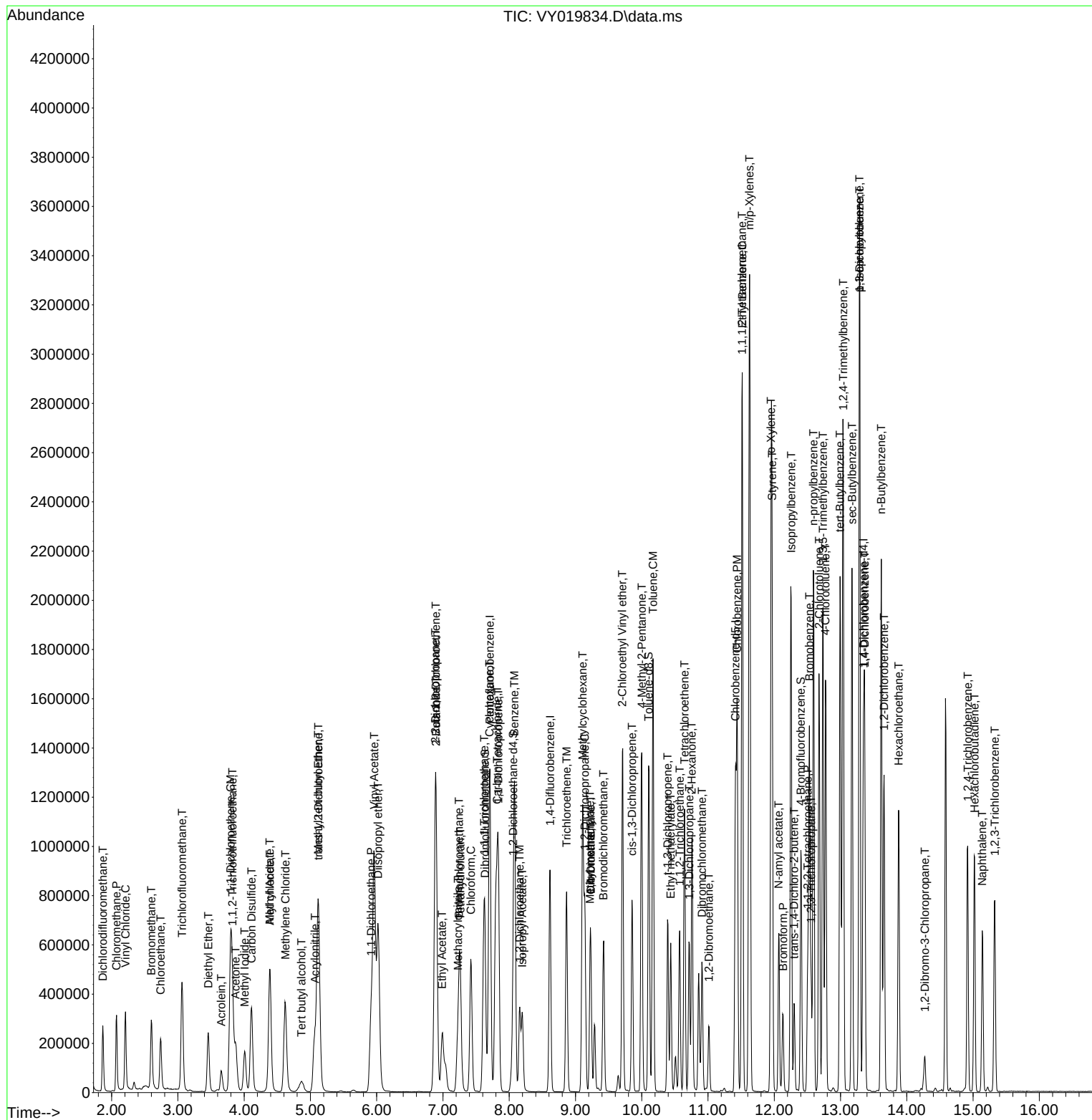
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100924

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/10/2024
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 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 2024
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
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 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
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Instrument :
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 ClientSampleId :
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Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 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	114	0.00
2 T	Dichlorodifluoromethane	0.465	0.491	-5.6	123	0.00
3 P	Chloromethane	0.606	0.622	-2.6	115	0.00
4 C	Vinyl Chloride	0.667	0.702	-5.2#	117	0.00
5 T	Bromomethane	0.422	0.438	-3.8	116	0.00
6 T	Chloroethane	0.448	0.451	-0.7	113	0.00
7 T	Trichlorofluoromethane	0.992	1.030	-3.8	118	0.00
8 T	Diethyl Ether	0.301	0.302	-0.3	110	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.577	0.597	-3.5	117	0.00
10 T	Methyl Iodide	0.584	0.617	-5.7	111	0.00
11 T	Tert butyl alcohol	0.058	0.045	22.4	103	0.01
12 CM	1,1-Dichloroethene	0.536	0.561	-4.7#	117	0.00
13 T	Acrolein	0.045	0.045	0.0	129	0.00
14 T	Allyl chloride	0.968	0.996	-2.9	113	0.00
15 T	Acrylonitrile	0.138	0.131	5.1	105	0.01
16 T	Acetone	0.160	0.151	5.6	101	0.00
17 T	Carbon Disulfide	1.438	1.570	-9.2	116	0.00
18 T	Methyl Acetate	0.345	0.326	5.5	106	0.00
19 T	Methyl tert-butyl Ether	1.541	1.508	2.1	110	0.00
20 T	Methylene Chloride	0.647	0.606	6.3	112	0.00
21 T	trans-1,2-Dichloroethene	0.584	0.602	-3.1	114	0.00
22 T	Diisopropyl ether	2.108	2.095	0.6	111	0.00
23 T	Vinyl Acetate	1.209	1.195	1.2	107	0.00
24 P	1,1-Dichloroethane	1.172	1.183	-0.9	113	0.00
25 T	2-Butanone	0.215	0.198	7.9	102	0.00
26 T	2,2-Dichloropropane	1.044	1.077	-3.2	118	0.00
27 T	cis-1,2-Dichloroethene	0.721	0.731	-1.4	113	0.00
28 T	Bromochloromethane	0.516	0.477	7.6	103	0.00
29 T	Tetrahydrofuran	0.122	0.114	6.6	102	0.00
30 C	Chloroform	1.195	1.204	-0.8#	112	0.00
31 T	Cyclohexane	1.029	1.018	1.1	115	0.00
32 T	1,1,1-Trichloroethane	1.047	1.084	-3.5	116	0.00
33 S	1,2-Dichloroethane-d4	0.616	0.543	11.9	107	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	111	0.00
35 S	Dibromofluoromethane	0.330	0.315	4.5	109	0.00
36 T	1,1-Dichloropropene	0.475	0.516	-8.6	115	0.00
37 T	Ethyl Acetate	0.248	0.244	1.6	105	0.00
38 T	Carbon Tetrachloride	0.510	0.560	-9.8	118	0.00
39 T	Methylcyclohexane	0.599	0.645	-7.7	114	0.00
40 TM	Benzene	1.439	1.512	-5.1	113	0.00
41 T	Methacrylonitrile	0.134	0.124	7.5	89	0.00
42 TM	1,2-Dichloroethane	0.413	0.419	-1.5	108	0.00
43 T	Isopropyl Acetate	0.505	0.498	1.4	106	0.00
44 TM	Trichloroethene	0.348	0.370	-6.3	112	0.00
45 C	1,2-Dichloropropane	0.360	0.368	-2.2#	112	0.00
46 T	Dibromomethane	0.197	0.196	0.5	107	0.00
47 T	Bromodichloromethane	0.522	0.537	-2.9	110	0.00
48 T	Methyl methacrylate	0.222	0.232	-4.5	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY100924

Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 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	95	0.00
50 S	Toluene-d8	1.218	1.182	3.0	111	0.00
51 T	4-Methyl-2-Pentanone	0.258	0.252	2.3	104	0.00
52 CM	Toluene	0.898	0.951	-5.9#	112	0.00
53 T	t-1,3-Dichloropropene	0.470	0.484	-3.0	108	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.573	-3.4	110	0.00
55 T	1,1,2-Trichloroethane	0.259	0.260	-0.4	107	0.00
56 T	Ethyl methacrylate	0.372	0.383	-3.0	105	0.00
57 T	1,3-Dichloropropane	0.455	0.453	0.4	106	0.00
58 T	2-Chloroethyl Vinyl ether	0.173	0.164	5.2	107	0.00
59 T	2-Hexanone	0.184	0.182	1.1	103	0.00
60 T	Dibromochloromethane	0.333	0.335	-0.6	108	0.00
61 T	1,2-Dibromoethane	0.234	0.229	2.1	103	0.00
62 S	4-Bromofluorobenzene	0.440	0.411	6.6	107	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64 T	Tetrachloroethene	0.356	0.372	-4.5	109	0.00
65 PM	Chlorobenzene	1.144	1.211	-5.9	111	0.00
66 T	1,1,1,2-Tetrachloroethane	0.387	0.408	-5.4	110	0.00
67 C	Ethyl Benzene	2.077	2.249	-8.3#	112	0.00
68 T	m/p-Xylenes	0.767	0.826	-7.7	112	0.00
69 T	o-Xylene	0.737	0.787	-6.8	110	0.00
70 T	Styrene	1.244	1.322	-6.3	109	0.00
71 P	Bromoform	0.207	0.215	-3.9	105	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73 T	Isopropylbenzene	4.206	4.518	-7.4	111	0.00
74 T	N-amyl acetate	1.114	1.166	-4.7	104	0.00
75 P	1,1,2,2-Tetrachloroethane	0.747	0.748	-0.1	103	0.00
76 T	1,2,3-Trichloropropane	0.521	0.515	1.2	107	0.00
77 T	Bromobenzene	0.892	0.931	-4.4	107	0.00
78 T	n-propylbenzene	5.082	5.528	-8.8	111	0.00
79 T	2-Chlorotoluene	2.913	3.095	-6.2	109	0.00
80 T	1,3,5-Trimethylbenzene	3.396	3.646	-7.4	110	0.00
81 T	trans-1,4-Dichloro-2-butene	0.243	0.255	-4.9	107	0.00
82 T	4-Chlorotoluene	2.979	3.163	-6.2	110	0.00
83 T	tert-Butylbenzene	3.043	3.249	-6.8	110	0.00
84 T	1,2,4-Trimethylbenzene	3.367	3.581	-6.4	109	0.00
85 T	sec-Butylbenzene	4.546	4.884	-7.4	109	0.00
86 T	p-Isopropyltoluene	3.691	3.939	-6.7	109	0.00
87 T	1,3-Dichlorobenzene	1.802	1.868	-3.7	108	0.00
88 T	1,4-Dichlorobenzene	1.771	1.813	-2.4	106	0.00
89 T	n-Butylbenzene	3.605	3.927	-8.9	108	0.00
90 T	Hexachloroethane	0.719	0.785	-9.2	112	0.00
91 T	1,2-Dichlorobenzene	1.584	1.627	-2.7	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.119	0.117	1.7	102	0.00
93 T	1,2,4-Trichlorobenzene	0.888	0.943	-6.2	103	0.00
94 T	Hexachlorobutadiene	0.494	0.520	-5.3	103	0.00
95 T	Naphthalene	1.675	1.773	-5.9	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019834.D
Acq On : 09 Oct 2024 15:25
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100924

Quant Time: Oct 10 05:34:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 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	0.751	0.786	-4.7	100	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100924

Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 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	114	0.00
2 T	Dichlorodifluoromethane	50.000	52.746	-5.5	123	0.00
3 P	Chloromethane	50.000	51.305	-2.6	115	0.00
4 C	Vinyl Chloride	50.000	52.682	-5.4#	117	0.00
5 T	Bromomethane	50.000	51.896	-3.8	116	0.00
6 T	Chloroethane	50.000	50.385	-0.8	113	0.00
7 T	Trichlorofluoromethane	50.000	51.914	-3.8	118	0.00
8 T	Diethyl Ether	50.000	50.058	-0.1	110	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.717	-3.4	117	0.00
10 T	Methyl Iodide	50.000	52.864	-5.7	111	0.00
11 T	Tert butyl alcohol	250.000	224.555	10.2	103	0.01
12 CM	1,1-Dichloroethene	50.000	52.286	-4.6#	117	0.00
13 T	Acrolein	250.000	248.720	0.5	129	0.00
14 T	Allyl chloride	50.000	51.434	-2.9	113	0.00
15 T	Acrylonitrile	250.000	237.568	5.0	105	0.01
16 T	Acetone	250.000	234.915	6.0	101	0.00
17 T	Carbon Disulfide	50.000	54.615	-9.2	116	0.00
18 T	Methyl Acetate	50.000	47.203	5.6	106	0.00
19 T	Methyl tert-butyl Ether	50.000	48.940	2.1	110	0.00
20 T	Methylene Chloride	50.000	46.817	6.4	112	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.561	-3.1	114	0.00
22 T	Diisopropyl ether	50.000	49.699	0.6	111	0.00
23 T	Vinyl Acetate	250.000	247.138	1.1	107	0.00
24 P	1,1-Dichloroethane	50.000	50.457	-0.9	113	0.00
25 T	2-Butanone	250.000	230.290	7.9	102	0.00
26 T	2,2-Dichloropropane	50.000	51.590	-3.2	118	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.626	-1.3	113	0.00
28 T	Bromochloromethane	50.000	46.231	7.5	103	0.00
29 T	Tetrahydrofuran	250.000	232.566	7.0	102	0.00
30 C	Chloroform	50.000	50.403	-0.8#	112	0.00
31 T	Cyclohexane	50.000	49.472	1.1	115	0.00
32 T	1,1,1-Trichloroethane	50.000	51.773	-3.5	116	0.00
33 S	1,2-Dichloroethane-d4	50.000	44.124	11.8	107	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	111	0.00
35 S	Dibromofluoromethane	50.000	47.744	4.5	109	0.00
36 T	1,1-Dichloropropene	50.000	54.265	-8.5	115	0.00
37 T	Ethyl Acetate	50.000	49.310	1.4	105	0.00
38 T	Carbon Tetrachloride	50.000	54.980	-10.0	118	0.00
39 T	Methylcyclohexane	50.000	53.828	-7.7	114	0.00
40 TM	Benzene	50.000	52.558	-5.1	113	0.00
41 T	Methacrylonitrile	50.000	46.363	7.3	89	0.00
42 TM	1,2-Dichloroethane	50.000	50.649	-1.3	108	0.00
43 T	Isopropyl Acetate	50.000	49.295	1.4	106	0.00
44 TM	Trichloroethene	50.000	53.156	-6.3	112	0.00
45 C	1,2-Dichloropropane	50.000	51.112	-2.2#	112	0.00
46 T	Dibromomethane	50.000	49.874	0.3	107	0.00
47 T	Bromodichloromethane	50.000	51.464	-2.9	110	0.00
48 T	Methyl methacrylate	50.000	52.201	-4.4	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY100924

Quant Time: Oct 10 05:34:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 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	925.169	7.5	95	0.00
50 S	Toluene-d8	50.000	48.506	3.0	111	0.00
51 T	4-Methyl-2-Pentanone	250.000	244.646	2.1	104	0.00
52 CM	Toluene	50.000	52.969	-5.9#	112	0.00
53 T	t-1,3-Dichloropropene	50.000	51.505	-3.0	108	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.692	-3.4	110	0.00
55 T	1,1,2-Trichloroethane	50.000	50.235	-0.5	107	0.00
56 T	Ethyl methacrylate	50.000	51.494	-3.0	105	0.00
57 T	1,3-Dichloropropane	50.000	49.749	0.5	106	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	236.595	5.4	107	0.00
59 T	2-Hexanone	250.000	247.056	1.2	103	0.00
60 T	Dibromochloromethane	50.000	50.287	-0.6	108	0.00
61 T	1,2-Dibromoethane	50.000	48.934	2.1	103	0.00
62 S	4-Bromofluorobenzene	50.000	46.674	6.7	107	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64 T	Tetrachloroethene	50.000	52.345	-4.7	109	0.00
65 PM	Chlorobenzene	50.000	52.932	-5.9	111	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.701	-5.4	110	0.00
67 C	Ethyl Benzene	50.000	54.126	-8.3#	112	0.00
68 T	m/p-Xylenes	100.000	107.703	-7.7	112	0.00
69 T	o-Xylene	50.000	53.376	-6.8	110	0.00
70 T	Styrene	50.000	53.155	-6.3	109	0.00
71 P	Bromoform	50.000	51.929	-3.9	105	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73 T	Isopropylbenzene	50.000	53.712	-7.4	111	0.00
74 T	N-amyl acetate	50.000	52.325	-4.7	104	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.077	-0.2	103	0.00
76 T	1,2,3-Trichloropropane	50.000	49.434	1.1	107	0.00
77 T	Bromobenzene	50.000	52.143	-4.3	107	0.00
78 T	n-propylbenzene	50.000	54.394	-8.8	111	0.00
79 T	2-Chlorotoluene	50.000	53.113	-6.2	109	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.670	-7.3	110	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.613	-5.2	107	0.00
82 T	4-Chlorotoluene	50.000	53.095	-6.2	110	0.00
83 T	tert-Butylbenzene	50.000	53.397	-6.8	110	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.170	-6.3	109	0.00
85 T	sec-Butylbenzene	50.000	53.720	-7.4	109	0.00
86 T	p-Isopropyltoluene	50.000	53.357	-6.7	109	0.00
87 T	1,3-Dichlorobenzene	50.000	51.809	-3.6	108	0.00
88 T	1,4-Dichlorobenzene	50.000	51.207	-2.4	106	0.00
89 T	n-Butylbenzene	50.000	54.470	-8.9	108	0.00
90 T	Hexachloroethane	50.000	54.612	-9.2	112	0.00
91 T	1,2-Dichlorobenzene	50.000	51.366	-2.7	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.008	2.0	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.099	-6.2	103	0.00
94 T	Hexachlorobutadiene	50.000	52.615	-5.2	103	0.00
95 T	Naphthalene	50.000	52.925	-5.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019834.D
Acq On : 09 Oct 2024 15:25
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100924

Quant Time: Oct 10 05:34:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 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	52.368	-4.7	100	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_X Calibration Date/Time: 10/29/2024 09:29

Lab File ID: VX043583.D Init. Calib. Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.535	0.520		-2.8	20
Chloromethane	0.684	0.597	0.1	-12.72	20
Vinyl Chloride	0.634	0.614		-3.31	20
Bromomethane	0.259	0.236		-8.88	20
Chloroethane	0.223	0.209		-6.28	20
Trichlorofluoromethane	0.775	0.759		-2.07	20
1,1,2-Trichlorotrifluoroethane	0.524	0.542		3.43	20
1,1-Dichloroethene	0.536	0.536		0	20
Acetone	0.317	0.297		-6.31	20
Carbon Disulfide	1.120	1.146		2.32	20
Methyl tert-butyl Ether	2.037	1.814		-10.95	20
Methyl Acetate	0.925	0.736		-20.43	20
Methylene Chloride	0.682	0.601		-11.88	20
trans-1,2-Dichloroethene	0.566	0.555		-1.94	20
1,1-Dichloroethane	1.101	1.028	0.1	-6.63	20
Cyclohexane	0.842	0.867		2.97	20
2-Butanone	0.462	0.403		-12.77	20
Carbon Tetrachloride	0.444	0.466		4.95	20
cis-1,2-Dichloroethene	0.723	0.687		-4.98	20
Bromochloromethane	0.524	0.462		-11.83	20
Chloroform	1.154	1.065		-7.71	20
1,1,1-Trichloroethane	0.969	0.948		-2.17	20
Methylcyclohexane	0.499	0.574		15.03	20
Benzene	1.341	1.333		-0.6	20
1,2-Dichloroethane	0.482	0.452		-6.22	20
Trichloroethene	0.333	0.351		5.41	20
1,2-Dichloropropane	0.330	0.327		-0.91	20
Bromodichloromethane	0.446	0.461		3.36	20
4-Methyl-2-Pentanone	0.492	0.451		-8.33	20
Toluene	0.813	0.854		5.04	20
t-1,3-Dichloropropene	0.479	0.490		2.3	20
cis-1,3-Dichloropropene	0.510	0.537		5.29	20
1,1,2-Trichloroethane	0.339	0.329		-2.95	20
2-Hexanone	0.374	0.352		-5.88	20
Dibromochloromethane	0.335	0.358		6.87	20
1,2-Dibromoethane	0.351	0.346		-1.42	20
Tetrachloroethene	0.314	0.333		6.05	20
Chlorobenzene	1.076	1.092	0.3	1.49	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578
 Instrument ID: MSVOA_X Calibration Date/Time: 10/29/2024 09:29
 Lab File ID: VX043583.D Init. Calib. Date(s): 10/28/2024 10/28/2024
 Heated Purge: (Y/N) N Init. Calib. Time(s): 10:59 12:54
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.754	1.860		6.04	20
m/p-Xylenes	0.671	0.725		8.05	20
o-Xylene	0.674	0.708		5.05	20
Styrene	1.120	1.213		8.3	20
Bromoform	0.253	0.265	0.1	4.74	20
Isopropylbenzene	3.542	3.725		5.17	20
1,1,2,2-Tetrachloroethane	1.274	1.176	0.3	-7.69	20
1,3-Dichlorobenzene	1.639	1.707		4.15	20
1,4-Dichlorobenzene	1.699	1.695		-0.23	20
1,2-Dichlorobenzene	1.676	1.698		1.31	20
1,2-Dibromo-3-Chloropropane	0.260	0.235		-9.61	20
1,2,4-Trichlorobenzene	1.017	1.094		7.57	20
1,2,3-Trichlorobenzene	1.073	1.122		4.57	20
1,2-Dichloroethane-d4	0.797	0.708		-11.17	20
Dibromofluoromethane	0.339	0.345		1.77	20
Toluene-d8	1.174	1.260		7.32	20
4-Bromofluorobenzene	0.435	0.471		8.28	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
 Data File : VX043583.D
 Acq On : 29 Oct 2024 09:29
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
 Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:24:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	185040	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	317661	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	277122	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	136145	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.946	65	130985	44.394	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	88.780%
35) Dibromofluoromethane	5.373	113	109730	50.941	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.880%
50) Toluene-d8	8.647	98	400238	53.676	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	107.360%
62) 4-Bromofluorobenzene	11.079	95	149677	54.171	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	108.340%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	96192	48.609	ug/l	98
3) Chloromethane	1.294	50	110441	43.659	ug/l	99
4) Vinyl Chloride	1.374	62	113522	48.354	ug/l	98
5) Bromomethane	1.593	94	43728	45.689	ug/l	98
6) Chloroethane	1.666	64	38745	46.843	ug/l	96
7) Trichlorofluoromethane	1.861	101	140504	48.990	ug/l	100
8) Diethyl Ether	2.136	74	59968	45.254	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	100354	51.739	ug/l	97
10) Methyl Iodide	2.440	142	135379	48.310	ug/l	98
11) Tert butyl alcohol	3.014	59	122889	223.146	ug/l #	100
12) 1,1-Dichloroethene	2.306	96	99213	50.054	ug/l	95
13) Acrolein	2.239	56	93394	216.855	ug/l	97
14) Allyl chloride	2.654	41	163297	47.632	ug/l	96
15) Acrylonitrile	3.062	53	262619	211.215	ug/l	100
16) Acetone	2.386	43	274914	234.636	ug/l	97
17) Carbon Disulfide	2.495	76	212014	51.153	ug/l	99
18) Methyl Acetate	2.703	43	136121	39.751	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	335598	44.520	ug/l	97
20) Methylene Chloride	2.782	84	111138	44.012	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	102634	49.012	ug/l	98
22) Diisopropyl ether	3.757	45	321130	45.317	ug/l	98
23) Vinyl Acetate	3.715	43	1362160	232.674	ug/l	99
24) 1,1-Dichloroethane	3.599	63	190272	46.716	ug/l	99
25) 2-Butanone	4.556	43	373244	218.384	ug/l	99
26) 2,2-Dichloropropane	4.464	77	170610	51.174	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	127185	47.546	ug/l	100
28) Bromochloromethane	4.891	49	85552	44.155	ug/l	99
29) Tetrahydrofuran	5.001	42	226140	203.602	ug/l	98
30) Chloroform	5.086	83	197102	46.165	ug/l	99
31) Cyclohexane	5.458	56	160445	51.504	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	175486	48.957	ug/l	99
36) 1,1-Dichloropropene	5.684	75	132757	51.976	ug/l	98
37) Ethyl Acetate	4.708	43	138087	44.531	ug/l	98
38) Carbon Tetrachloride	5.665	117	148021	52.449	ug/l	98
39) Methylcyclohexane	7.372	83	182236	57.467	ug/l	97
40) Benzene	6.025	78	423307	49.678	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
 Data File : VX043583.D
 Acq On : 29 Oct 2024 09:29
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
 Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:24:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	78897	48.472	ug/l	98
42) 1,2-Dichloroethane	6.080	62	143431	46.823	ug/l	99
43) Isopropyl Acetate	6.336	43	234002	45.631	ug/l	98
44) Trichloroethene	7.116	130	111507	52.676	ug/l	91
45) 1,2-Dichloropropane	7.427	63	103879	49.511	ug/l	100
46) Dibromomethane	7.574	93	77712	48.105	ug/l	98
47) Bromodichloromethane	7.818	83	146531	51.705	ug/l	97
48) Methyl methacrylate	7.689	41	113890	46.843	ug/l	97
49) 1,4-Dioxane	7.665	88	47931m	959.544	ug/l	
51) 4-Methyl-2-Pentanone	8.573	43	716488	229.232	ug/l	99
52) Toluene	8.714	92	271357	52.511	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	155688	51.148	ug/l	99
54) cis-1,3-Dichloropropene	8.360	75	170511	52.575	ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	104415	48.542	ug/l	99
56) Ethyl methacrylate	9.116	69	171964	49.201	ug/l	96
57) 1,3-Dichloropropane	9.305	76	176717	49.396	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	369838	218.483	ug/l	97
59) 2-Hexanone	9.433	43	559686	235.767	ug/l	98
60) Dibromochloromethane	9.518	129	113810	53.432	ug/l	100
61) 1,2-Dibromoethane	9.604	107	109821	49.183	ug/l	97
64) Tetrachloroethene	9.268	164	92204	52.901	ug/l	98
65) Chlorobenzene	10.079	112	302575	50.750	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	103710	53.255	ug/l	99
67) Ethyl Benzene	10.189	91	515530	53.028	ug/l	99
68) m/p-Xylenes	10.299	106	401855	108.089	ug/l	97
69) o-Xylene	10.640	106	196198	52.523	ug/l	99
70) Styrene	10.652	104	336072	54.130	ug/l	99
71) Bromoform	10.799	173	73381	52.407	ug/l #	98
73) Isopropylbenzene	10.963	105	507198	52.592	ug/l	99
74) N-amyl acetate	10.841	43	216499	46.083	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	160157	46.182	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	131796m	45.276	ug/l	
77) Bromobenzene	11.195	156	126219	50.686	ug/l	98
78) n-propylbenzene	11.305	91	571565	54.356	ug/l	100
79) 2-Chlorotoluene	11.360	91	350419	50.257	ug/l	97
80) 1,3,5-Trimethylbenzene	11.451	105	427235	53.132	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	52521	49.635	ug/l	94
82) 4-Chlorotoluene	11.451	91	399821	51.088	ug/l	97
83) tert-Butylbenzene	11.713	119	436382	53.361	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	437441	53.380	ug/l	99
85) sec-Butylbenzene	11.890	105	528903	55.177	ug/l	99
86) p-Isopropyltoluene	12.006	119	451954	55.469	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	232425	52.073	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	230728	49.888	ug/l	99
89) n-Butylbenzene	12.329	91	387771	58.406	ug/l	99
90) Hexachloroethane	12.536	117	75311	56.903	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	231234	50.664	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	31951	45.194	ug/l	91
93) 1,2,4-Trichlorobenzene	13.585	180	148966	53.771	ug/l	97
94) Hexachlorobutadiene	13.725	225	58808	57.574	ug/l	99
95) Naphthalene	13.774	128	532111	50.193	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	152724	52.286	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043583.D
Acq On : 29 Oct 2024 09:29
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:24:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

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

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

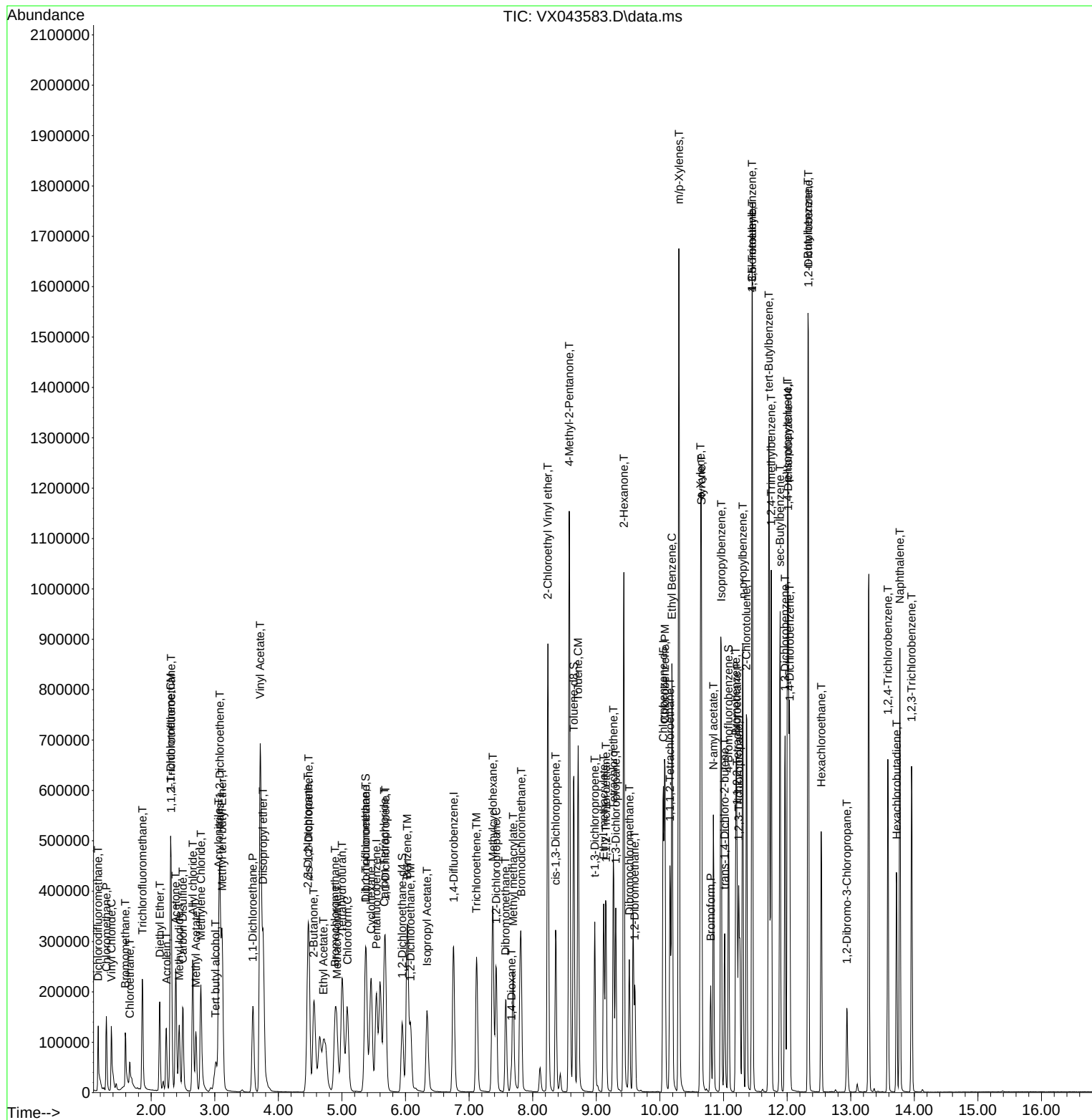
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
 Data File : VX043583.D
 Acq On : 29 Oct 2024 09:29
 Operator : JC/MD
 Sample : VSTDC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDC050

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/30/2024
 Supervised By : Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:24:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
 Data File : VX043583.D
 Acq On : 29 Oct 2024 09:29
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 30 01:24:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 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	124	0.00
2 T	Dichlorodifluoromethane	0.535	0.520	2.8	128	0.00
3 P	Chloromethane	0.684	0.597	12.7	114	0.00
4 C	Vinyl Chloride	0.634	0.613	3.3#	120	0.00
5 T	Bromomethane	0.259	0.236	8.9	112	0.00
6 T	Chloroethane	0.223	0.209	6.3	116	0.00
7 T	Trichlorofluoromethane	0.775	0.759	2.1	121	0.00
8 T	Diethyl Ether	0.358	0.324	9.5	113	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.524	0.542	-3.4	128	0.00
10 T	Methyl Iodide	0.757	0.732	3.3	116	0.00
11 T	Tert butyl alcohol	0.149	0.133	10.7	106	-0.04
12 CM	1,1-Dichloroethene	0.536	0.536	0.0	124	0.00
13 T	Acrolein	0.116	0.101	12.9	115	0.00
14 T	Allyl chloride	0.926	0.882	4.8	115	0.00
15 T	Acrylonitrile	0.336	0.284	15.5	101	-0.01
16 T	Acetone	0.317	0.297	6.3	118	-0.01
17 T	Carbon Disulfide	1.120	1.146	-2.3	126	0.00
18 T	Methyl Acetate	0.925	0.736	20.4	99	0.00
19 T	Methyl tert-butyl Ether	2.037	1.814	10.9	108	0.00
20 T	Methylene Chloride	0.682	0.601	11.9	113	0.00
21 T	trans-1,2-Dichloroethene	0.566	0.555	1.9	123	0.00
22 T	Diisopropyl ether	1.915	1.735	9.4	111	0.00
23 T	Vinyl Acetate	1.582	1.472	7.0	108	0.00
24 P	1,1-Dichloroethane	1.101	1.028	6.6	115	0.00
25 T	2-Butanone	0.462	0.403	12.8	104	-0.01
26 T	2,2-Dichloropropane	0.901	0.922	-2.3	129	0.00
27 T	cis-1,2-Dichloroethene	0.723	0.687	5.0	115	0.00
28 T	Bromochloromethane	0.524	0.462	11.8	113	0.00
29 T	Tetrahydrofuran	0.300	0.244	18.7	98	-0.01
30 C	Chloroform	1.154	1.065	7.7#	114	0.00
31 T	Cyclohexane	0.842	0.867	-3.0	128	0.00
32 T	1,1,1-Trichloroethane	0.969	0.948	2.2	119	0.00
33 S	1,2-Dichloroethane-d4	0.797	0.708	11.2	112	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	117	0.00
35 S	Dibromofluoromethane	0.339	0.345	-1.8	120	-0.01
36 T	1,1-Dichloropropene	0.402	0.418	-4.0	126	0.00
37 T	Ethyl Acetate	0.488	0.435	10.9	101	-0.01
38 T	Carbon Tetrachloride	0.444	0.466	-5.0	123	0.00
39 T	Methylcyclohexane	0.499	0.574	-15.0	132	0.00
40 TM	Benzene	1.341	1.333	0.6	115	0.00
41 T	Methacrylonitrile	0.256	0.248	3.1	108	0.00
42 TM	1,2-Dichloroethane	0.482	0.452	6.2	107	0.00
43 T	Isopropyl Acetate	0.807	0.737	8.7	103	0.00
44 TM	Trichloroethene	0.333	0.351	-5.4	122	0.00
45 C	1,2-Dichloropropane	0.330	0.327	0.9#	114	0.00
46 T	Dibromomethane	0.254	0.245	3.5	110	0.00
47 T	Bromodichloromethane	0.446	0.461	-3.4	114	0.00
48 T	Methyl methacrylate	0.383	0.359	6.3	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
 Data File : VX043583.D
 Acq On : 29 Oct 2024 09:29
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 30 01:24:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 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	0.008	0.008	0.0	108	0.00
50 S	Toluene-d8	1.174	1.260	-7.3	126	0.00
51 T	4-Methyl-2-Pentanone	0.492	0.451	8.3	101	0.00
52 CM	Toluene	0.813	0.854	-5.0#	120	0.00
53 T	t-1,3-Dichloropropene	0.479	0.490	-2.3	113	0.00
54 T	cis-1,3-Dichloropropene	0.510	0.537	-5.3	116	0.00
55 T	1,1,2-Trichloroethane	0.339	0.329	2.9	109	0.00
56 T	Ethyl methacrylate	0.550	0.541	1.6	108	0.00
57 T	1,3-Dichloropropane	0.563	0.556	1.2	111	0.00
58 T	2-Chloroethyl Vinyl ether	0.266	0.233	12.4	102	0.00
59 T	2-Hexanone	0.374	0.352	5.9	103	0.00
60 T	Dibromochloromethane	0.335	0.358	-6.9	114	0.00
61 T	1,2-Dibromoethane	0.351	0.346	1.4	110	0.00
62 S	4-Bromofluorobenzene	0.435	0.471	-8.3	124	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00
64 T	Tetrachloroethene	0.314	0.333	-6.1	125	0.00
65 PM	Chlorobenzene	1.076	1.092	-1.5	118	0.00
66 T	1,1,1,2-Tetrachloroethane	0.351	0.374	-6.6	117	0.00
67 C	Ethyl Benzene	1.754	1.860	-6.0#	122	0.00
68 T	m/p-Xylenes	0.671	0.725	-8.0	122	0.00
69 T	o-Xylene	0.674	0.708	-5.0	119	0.00
70 T	Styrene	1.120	1.213	-8.3	119	0.00
71 P	Bromoform	0.253	0.265	-4.7	112	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	119	0.00
73 T	Isopropylbenzene	3.542	3.725	-5.2	124	0.00
74 T	N-amyl acetate	1.725	1.590	7.8	106	0.00
75 P	1,1,2,2-Tetrachloroethane	1.274	1.176	7.7	108	0.00
76 T	1,2,3-Trichloropropane	1.069	0.968	9.4	107	0.00
77 T	Bromobenzene	0.915	0.927	-1.3	119	0.00
78 T	n-propylbenzene	3.862	4.198	-8.7	125	0.00
79 T	2-Chlorotoluene	2.561	2.574	-0.5	121	0.00
80 T	1,3,5-Trimethylbenzene	2.953	3.138	-6.3	123	0.00
81 T	trans-1,4-Dichloro-2-butene	0.389	0.386	0.8	109	0.00
82 T	4-Chlorotoluene	2.874	2.937	-2.2	121	0.00
83 T	tert-Butylbenzene	3.003	3.205	-6.7	125	0.00
84 T	1,2,4-Trimethylbenzene	3.010	3.213	-6.7	123	0.00
85 T	sec-Butylbenzene	3.520	3.885	-10.4	127	0.00
86 T	p-Isopropyltoluene	2.992	3.320	-11.0	126	0.00
87 T	1,3-Dichlorobenzene	1.639	1.707	-4.1	123	0.00
88 T	1,4-Dichlorobenzene	1.699	1.695	0.2	122	0.00
89 T	n-Butylbenzene	2.438	2.848	-16.8	129	0.00
90 T	Hexachloroethane	0.486	0.553	-13.8	126	0.00
91 T	1,2-Dichlorobenzene	1.676	1.698	-1.3	117	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.260	0.235	9.6	99	0.00
93 T	1,2,4-Trichlorobenzene	1.017	1.094	-7.6	120	0.00
94 T	Hexachlorobutadiene	0.375	0.432	-15.2	138	0.00
95 T	Naphthalene	3.893	3.908	-0.4	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043583.D
Acq On : 29 Oct 2024 09:29
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 30 01:24:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 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	1.073	1.122	-4.6	121	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
 Data File : VX043583.D
 Acq On : 29 Oct 2024 09:29
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 30 01:24:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 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	124	0.00
2 T	Dichlorodifluoromethane	50.000	48.609	2.8	128	0.00
3 P	Chloromethane	50.000	43.659	12.7	114	0.00
4 C	Vinyl Chloride	50.000	48.354	3.3#	120	0.00
5 T	Bromomethane	50.000	45.689	8.6	112	0.00
6 T	Chloroethane	50.000	46.843	6.3	116	0.00
7 T	Trichlorofluoromethane	50.000	48.990	2.0	121	0.00
8 T	Diethyl Ether	50.000	45.254	9.5	113	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.739	-3.5	128	0.00
10 T	Methyl Iodide	50.000	48.310	3.4	116	0.00
11 T	Tert butyl alcohol	250.000	223.146	10.7	106	-0.04
12 CM	1,1-Dichloroethene	50.000	50.054	-0.1#	124	0.00
13 T	Acrolein	250.000	216.855	13.3	115	0.00
14 T	Allyl chloride	50.000	47.632	4.7	115	0.00
15 T	Acrylonitrile	250.000	211.215	15.5	101	-0.01
16 T	Acetone	250.000	234.636	6.1	118	-0.01
17 T	Carbon Disulfide	50.000	51.153	-2.3	126	0.00
18 T	Methyl Acetate	50.000	39.751	20.5	99	0.00
19 T	Methyl tert-butyl Ether	50.000	44.520	11.0	108	0.00
20 T	Methylene Chloride	50.000	44.012	12.0	113	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.012	2.0	123	0.00
22 T	Diisopropyl ether	50.000	45.317	9.4	111	0.00
23 T	Vinyl Acetate	250.000	232.674	6.9	108	0.00
24 P	1,1-Dichloroethane	50.000	46.716	6.6	115	0.00
25 T	2-Butanone	250.000	218.384	12.6	104	-0.01
26 T	2,2-Dichloropropane	50.000	51.174	-2.3	129	0.00
27 T	cis-1,2-Dichloroethene	50.000	47.546	4.9	115	0.00
28 T	Bromochloromethane	50.000	44.155	11.7	113	0.00
29 T	Tetrahydrofuran	250.000	203.602	18.6	98	-0.01
30 C	Chloroform	50.000	46.165	7.7#	114	0.00
31 T	Cyclohexane	50.000	51.504	-3.0	128	0.00
32 T	1,1,1-Trichloroethane	50.000	48.957	2.1	119	0.00
33 S	1,2-Dichloroethane-d4	50.000	44.394	11.2	112	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	117	0.00
35 S	Dibromofluoromethane	50.000	50.941	-1.9	120	-0.01
36 T	1,1-Dichloropropene	50.000	51.976	-4.0	126	0.00
37 T	Ethyl Acetate	50.000	44.531	10.9	101	-0.01
38 T	Carbon Tetrachloride	50.000	52.449	-4.9	123	0.00
39 T	Methylcyclohexane	50.000	57.467	-14.9	132	0.00
40 TM	Benzene	50.000	49.678	0.6	115	0.00
41 T	Methacrylonitrile	50.000	48.472	3.1	108	0.00
42 TM	1,2-Dichloroethane	50.000	46.823	6.4	107	0.00
43 T	Isopropyl Acetate	50.000	45.631	8.7	103	0.00
44 TM	Trichloroethene	50.000	52.676	-5.4	122	0.00
45 C	1,2-Dichloropropane	50.000	49.511	1.0#	114	0.00
46 T	Dibromomethane	50.000	48.105	3.8	110	0.00
47 T	Bromodichloromethane	50.000	51.705	-3.4	114	0.00
48 T	Methyl methacrylate	50.000	46.843	6.3	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
 Data File : VX043583.D
 Acq On : 29 Oct 2024 09:29
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 30 01:24:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 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	959.544	4.0	108	0.00
50 S	Toluene-d8	50.000	53.676	-7.4	126	0.00
51 T	4-Methyl-2-Pentanone	250.000	229.232	8.3	101	0.00
52 CM	Toluene	50.000	52.511	-5.0#	120	0.00
53 T	t-1,3-Dichloropropene	50.000	51.148	-2.3	113	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.575	-5.2	116	0.00
55 T	1,1,2-Trichloroethane	50.000	48.542	2.9	109	0.00
56 T	Ethyl methacrylate	50.000	49.201	1.6	108	0.00
57 T	1,3-Dichloropropane	50.000	49.396	1.2	111	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	218.483	12.6	102	0.00
59 T	2-Hexanone	250.000	235.767	5.7	103	0.00
60 T	Dibromochloromethane	50.000	53.432	-6.9	114	0.00
61 T	1,2-Dibromoethane	50.000	49.183	1.6	110	0.00
62 S	4-Bromofluorobenzene	50.000	54.171	-8.3	124	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	116	0.00
64 T	Tetrachloroethene	50.000	52.901	-5.8	125	0.00
65 PM	Chlorobenzene	50.000	50.750	-1.5	118	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.255	-6.5	117	0.00
67 C	Ethyl Benzene	50.000	53.028	-6.1#	122	0.00
68 T	m/p-Xylenes	100.000	108.089	-8.1	122	0.00
69 T	o-Xylene	50.000	52.523	-5.0	119	0.00
70 T	Styrene	50.000	54.130	-8.3	119	0.00
71 P	Bromoform	50.000	52.407	-4.8	112	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	119	0.00
73 T	Isopropylbenzene	50.000	52.592	-5.2	124	0.00
74 T	N-ethyl acetate	50.000	46.083	7.8	106	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	46.182	7.6	108	0.00
76 T	1,2,3-Trichloropropane	50.000	45.276	9.4	107	0.00
77 T	Bromobenzene	50.000	50.686	-1.4	119	0.00
78 T	n-propylbenzene	50.000	54.356	-8.7	125	0.00
79 T	2-Chlorotoluene	50.000	50.257	-0.5	121	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.132	-6.3	123	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.635	0.7	109	0.00
82 T	4-Chlorotoluene	50.000	51.088	-2.2	121	0.00
83 T	tert-Butylbenzene	50.000	53.361	-6.7	125	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.380	-6.8	123	0.00
85 T	sec-Butylbenzene	50.000	55.177	-10.4	127	0.00
86 T	p-Isopropyltoluene	50.000	55.469	-10.9	126	0.00
87 T	1,3-Dichlorobenzene	50.000	52.073	-4.1	123	0.00
88 T	1,4-Dichlorobenzene	50.000	49.888	0.2	122	0.00
89 T	n-Butylbenzene	50.000	58.406	-16.8	129	0.00
90 T	Hexachloroethane	50.000	56.903	-13.8	126	0.00
91 T	1,2-Dichlorobenzene	50.000	50.664	-1.3	117	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	45.194	9.6	99	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.771	-7.5	120	0.00
94 T	Hexachlorobutadiene	50.000	57.574	-15.1	138	0.00
95 T	Naphthalene	50.000	50.193	-0.4	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043583.D
Acq On : 29 Oct 2024 09:29
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 30 01:24:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 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	52.286	-4.6	121	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_Y Calibration Date/Time: 10/28/2024 09:29

Lab File ID: VY020029.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.465	0.387		-16.77	20
Chloromethane	0.606	0.595	0.1	-1.82	20
Vinyl Chloride	0.667	0.667		0	20
Bromomethane	0.422	0.450		6.64	20
Chloroethane	0.448	0.484		8.04	20
Trichlorofluoromethane	0.992	0.996		0.4	20
1,1,2-Trichlorotrifluoroethane	0.577	0.592		2.6	20
1,1-Dichloroethene	0.536	0.519		-3.17	20
Acetone	0.160	0.184		15	20
Carbon Disulfide	1.438	1.190		-17.25	20
Methyl tert-butyl Ether	1.541	1.548		0.45	20
Methyl Acetate	0.345	0.377		9.27	20
Methylene Chloride	0.647	0.620		-4.17	20
trans-1,2-Dichloroethene	0.584	0.588		0.69	20
1,1-Dichloroethane	1.172	1.320	0.1	12.63	20
Cyclohexane	1.029	0.998		-3.01	20
2-Butanone	0.215	0.224		4.19	20
Carbon Tetrachloride	0.510	0.566		10.98	20
cis-1,2-Dichloroethene	0.721	0.773		7.21	20
Bromochloromethane	0.516	0.537		4.07	20
Chloroform	1.195	1.366		14.31	20
1,1,1-Trichloroethane	1.047	1.178		12.51	20
Methylcyclohexane	0.599	0.605		1	20
Benzene	1.439	1.597		10.98	20
1,2-Dichloroethane	0.413	0.447		8.23	20
Trichloroethene	0.348	0.373		7.18	20
1,2-Dichloropropane	0.360	0.410		13.89	20
Bromodichloromethane	0.522	0.599		14.75	20
4-Methyl-2-Pentanone	0.258	0.266		3.1	20
Toluene	0.898	1.015		13.03	20
t-1,3-Dichloropropene	0.470	0.510		8.51	20
cis-1,3-Dichloropropene	0.554	0.609		9.93	20
1,1,2-Trichloroethane	0.259	0.279		7.72	20
2-Hexanone	0.184	0.195		5.98	20
Dibromochloromethane	0.333	0.358		7.51	20
1,2-Dibromoethane	0.234	0.239		2.14	20
Tetrachloroethene	0.356	0.353		-0.84	20
Chlorobenzene	1.144	1.258	0.3	9.97	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_Y Calibration Date/Time: 10/28/2024 09:29

Lab File ID: VY020029.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.077	2.358		13.53	20
m/p-Xylenes	0.767	0.848		10.56	20
o-Xylene	0.737	0.809		9.77	20
Styrene	1.244	1.415		13.75	20
Bromoform	0.207	0.217	0.1	4.83	20
Isopropylbenzene	4.206	4.766		13.31	20
1,1,2,2-Tetrachloroethane	0.747	0.780	0.3	4.42	20
1,3-Dichlorobenzene	1.802	1.927		6.94	20
1,4-Dichlorobenzene	1.771	1.886		6.49	20
1,2-Dichlorobenzene	1.584	1.658		4.67	20
1,2-Dibromo-3-Chloropropane	0.119	0.112		-5.88	20
1,2,4-Trichlorobenzene	0.888	0.864		-2.7	20
1,2,3-Trichlorobenzene	0.751	0.715		-4.79	20
1,2-Dichloroethane-d4	0.616	0.615		-0.16	20
Dibromofluoromethane	0.330	0.356		7.88	20
Toluene-d8	1.218	1.274		4.6	20
4-Bromofluorobenzene	0.440	0.458		4.09	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020029.D
 Acq On : 28 Oct 2024 09:29
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 01:51:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.719	168	206029	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.627	114	357320	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.420	117	306579	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	147527	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.073	65	126771	49.972	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	99.940%
35) Dibromofluoromethane	7.646	113	127235	53.961	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	107.920%
50) Toluene-d8	10.115	98	455263	52.284	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	104.560%
62) 4-Bromofluorobenzene	12.413	95	163597	51.997	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	104.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.873	85	79697	41.553	ug/l	100
3) Chloromethane	2.080	50	122651	49.134	ug/l	99
4) Vinyl Chloride	2.214	62	137508	50.058	ug/l	99
5) Bromomethane	2.610	94	92611	53.264	ug/l	96
6) Chloroethane	2.744	64	99637	53.992	ug/l	98
7) Trichlorofluoromethane	3.074	101	205170	50.195	ug/l	98
8) Diethyl Ether	3.464	74	57797	46.525	ug/l	71
9) 1,1,2-Trichlorotrifluo...	3.830	101	121950	51.293	ug/l	92
10) Methyl Iodide	4.019	142	112317	46.709	ug/l	93
11) Tert butyl alcohol	4.878	59	37778	178.815	ug/l #	74
12) 1,1-Dichloroethene	3.805	96	107007	48.413	ug/l #	81
13) Acrolein	3.671	56	19104	102.486	ug/l	99
14) Allyl chloride	4.403	41	211745	53.095	ug/l #	90
15) Acrylonitrile	5.073	53	143646	252.807	ug/l	97
16) Acetone	3.884	43	189367	286.756	ug/l #	81
17) Carbon Disulfide	4.122	76	245136	41.377	ug/l	99
18) Methyl Acetate	4.403	43	77619	54.563	ug/l #	86
19) Methyl tert-butyl Ether	5.128	73	318882	50.218	ug/l	95
20) Methylene Chloride	4.640	84	127839	52.431	ug/l #	86
21) trans-1,2-Dichloroethene	5.128	96	121169	50.369	ug/l	87
22) Diisopropyl ether	6.030	45	496829	57.195	ug/l #	90
23) Vinyl Acetate	5.976	43	1284239	257.885	ug/l #	91
24) 1,1-Dichloroethane	5.927	63	272014	56.333	ug/l	96
25) 2-Butanone	6.908	43	230515	260.783	ug/l #	83
26) 2,2-Dichloropropane	6.902	77	234914	54.627	ug/l	97
27) cis-1,2-Dichloroethene	6.902	96	159171	53.542	ug/l	81
28) Bromochloromethane	7.256	49	110668	52.071	ug/l #	72
29) Tetrahydrofuran	7.274	42	121587	240.906	ug/l #	81
30) Chloroform	7.433	83	281519	57.193	ug/l	99
31) Cyclohexane	7.713	56	205663	48.520	ug/l	86
32) 1,1,1-Trichloroethane	7.628	97	242695	56.261	ug/l	94
36) 1,1-Dichloropropene	7.847	75	184456	54.300	ug/l	94
37) Ethyl Acetate	6.994	43	85793	48.434	ug/l #	95
38) Carbon Tetrachloride	7.829	117	202338	55.562	ug/l	96
39) Methylcyclohexane	9.115	83	216299	50.535	ug/l #	84
40) Benzene	8.091	78	570603	55.502	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020029.D
 Acq On : 28 Oct 2024 09:29
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 10/29/2024

Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 01:51:49 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M

Quant Title : SW846 8260

QLast Update : Wed Oct 16 05:44:48 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.231	41	53145	55.435	ug/l #	82
42) 1,2-Dichloroethane	8.170	62	159618	54.043	ug/l	94
43) Isopropyl Acetate	8.207	43	181886	50.350	ug/l #	88
44) Trichloroethene	8.877	130	133402	53.575	ug/l	94
45) 1,2-Dichloropropane	9.152	63	146668	56.998	ug/l	96
46) Dibromomethane	9.237	93	74041	52.665	ug/l	89
47) Bromodichloromethane	9.432	83	214099	57.373	ug/l	94
48) Methyl methacrylate	9.231	41	82213	51.738	ug/l #	80
49) 1,4-Dioxane	9.237	88	14980	952.008	ug/l #	84
51) 4-Methyl-2-Pentanone	10.005	43	475210	257.904	ug/l	88
52) Toluene	10.176	92	362556	56.497	ug/l	99
53) t-1,3-Dichloropropene	10.402	75	182389	54.321	ug/l	97
54) cis-1,3-Dichloropropene	9.865	75	217550	54.911	ug/l #	86
55) 1,1,2-Trichloroethane	10.578	97	99521	53.729	ug/l	93
56) Ethyl methacrylate	10.444	69	137463	51.720	ug/l #	75
57) 1,3-Dichloropropane	10.725	76	176829	54.361	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.719	63	342145	276.525	ug/l	92
59) 2-Hexanone	10.767	43	348423	264.753	ug/l	85
60) Dibromochloromethane	10.920	129	127848	53.776	ug/l	98
61) 1,2-Dibromoethane	11.023	107	85281	50.950	ug/l	99
64) Tetrachloroethene	10.652	164	108297	49.663	ug/l	92
65) Chlorobenzene	11.450	112	385750	55.011	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.523	131	135040	56.920	ug/l	98
67) Ethyl Benzene	11.523	91	722890	56.751	ug/l	99
68) m/p-Xylenes	11.633	106	519871	110.508	ug/l	89
69) o-Xylene	11.962	106	248010	54.869	ug/l	90
70) Styrene	11.974	104	433757	56.879	ug/l	96
71) Bromoform	12.139	173	66575	52.419	ug/l #	95
73) Isopropylbenzene	12.261	105	703143	56.664	ug/l	98
74) N-amyl acetate	12.078	43	160282	48.768	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.511	83	115061	52.184	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	66959m	23.169	ug/l	
77) Bromobenzene	12.541	156	136772	51.940	ug/l	84
78) n-propylbenzene	12.602	91	861161	57.434	ug/l	96
79) 2-Chlorotoluene	12.682	91	482023	56.075	ug/l	93
80) 1,3,5-Trimethylbenzene	12.743	105	556655	55.547	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.310	75	36908	51.548	ug/l #	84
82) 4-Chlorotoluene	12.785	91	487706	55.488	ug/l	95
83) tert-Butylbenzene	13.005	119	516248	57.504	ug/l	94
84) 1,2,4-Trimethylbenzene	13.047	105	552717	55.630	ug/l	95
85) sec-Butylbenzene	13.182	105	768178	57.270	ug/l	97
86) p-Isopropyltoluene	13.297	119	613226	56.301	ug/l	96
87) 1,3-Dichlorobenzene	13.291	146	284252	53.454	ug/l	97
88) 1,4-Dichlorobenzene	13.371	146	278219	53.256	ug/l	97
89) n-Butylbenzene	13.620	91	606658	57.042	ug/l	98
90) Hexachloroethane	13.883	117	125555	59.200	ug/l	83
91) 1,2-Dichlorobenzene	13.663	146	244629	52.355	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.279	75	16531	46.978	ug/l	75
93) 1,2,4-Trichlorobenzene	14.925	180	127439	48.641	ug/l	98
94) Hexachlorobutadiene	15.029	225	70632	48.490	ug/l	97
95) Naphthalene	15.151	128	228866	46.315	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	105414	47.596	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020029.D
Acq On : 28 Oct 2024 09:29
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 01:51:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

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

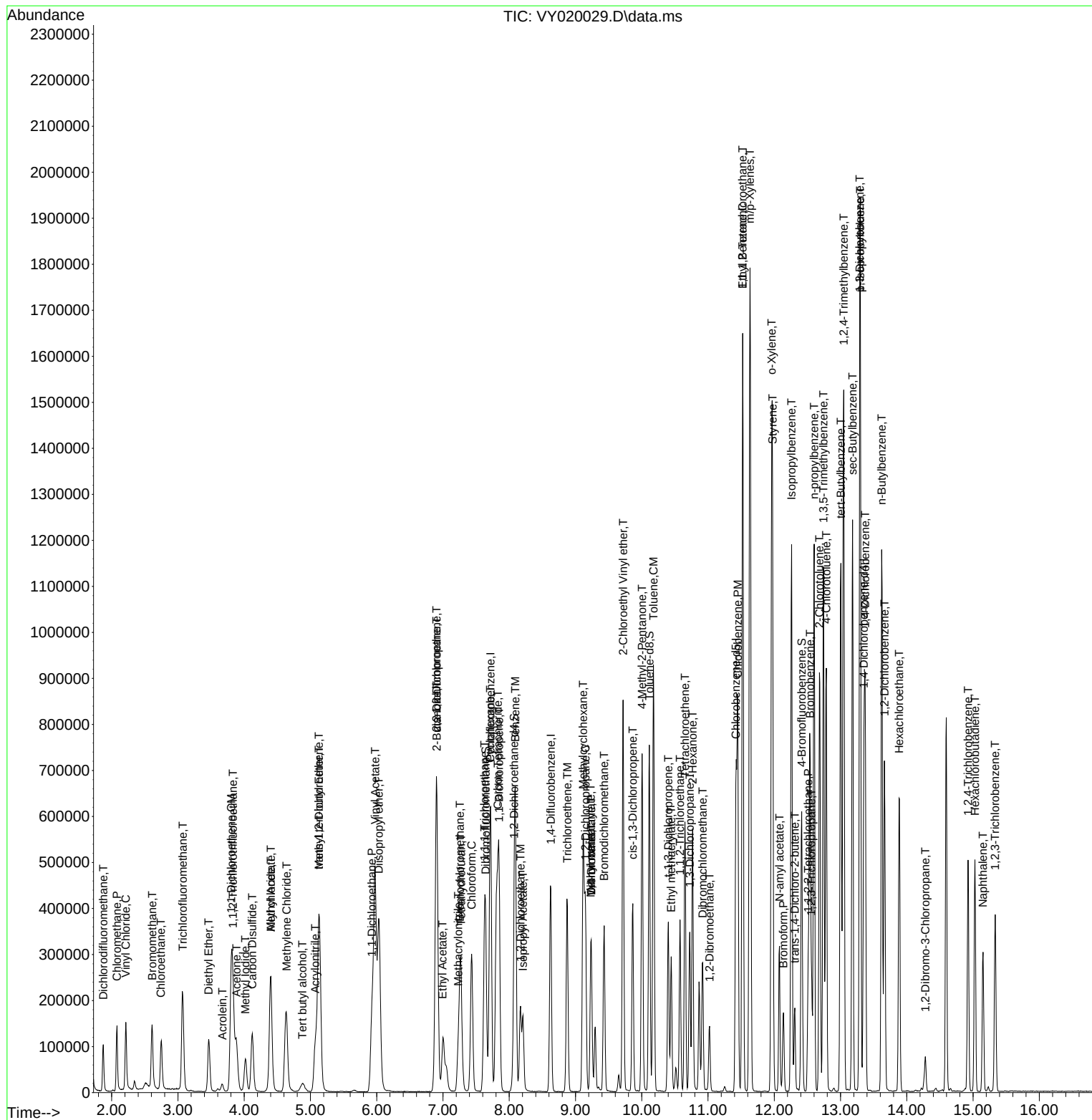
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020029.D
Acq On : 28 Oct 2024 09:29
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Oct 29 01:51:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
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Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020029.D
 Acq On : 28 Oct 2024 09:29
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 29 01:51:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	55	0.01
2 T	Dichlorodifluoromethane	0.465	0.387	16.8	46#	0.00
3 P	Chloromethane	0.606	0.595	1.8	53	0.01
4 C	Vinyl Chloride	0.667	0.667	0.0	53	0.00
5 T	Bromomethane	0.422	0.450	-6.6	57	0.01
6 T	Chloroethane	0.448	0.484	-8.0	58	0.00
7 T	Trichlorofluoromethane	0.992	0.996	-0.4	54	0.01
8 T	Diethyl Ether	0.301	0.281	6.6	49#	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.577	0.592	-2.6	56	0.02
10 T	Methyl Iodide	0.584	0.545	6.7	47#	0.01
11 T	Tert butyl alcohol	0.058	0.037	36.2#	40#	0.02
12 CM	1,1-Dichloroethene	0.536	0.519	3.2#	52	0.02
13 T	Acrolein	0.045	0.019	57.8#	25#	0.02
14 T	Allyl chloride	0.968	1.028	-6.2	56	0.02
15 T	Acrylonitrile	0.138	0.139	-0.7	53	0.02
16 T	Acetone	0.160	0.184	-15.0	59	0.01
17 T	Carbon Disulfide	1.438	1.190	17.2	42#	0.02
18 T	Methyl Acetate	0.345	0.377	-9.3	59	0.02
19 T	Methyl tert-butyl Ether	1.541	1.548	-0.5	54	0.01
20 T	Methylene Chloride	0.647	0.620	4.2	55	0.02
21 T	trans-1,2-Dichloroethene	0.584	0.588	-0.7	53	0.02
22 T	Diisopropyl ether	2.108	2.411	-14.4	61	0.01
23 T	Vinyl Acetate	1.209	1.247	-3.1	53	0.02
24 P	1,1-Dichloroethane	1.172	1.320	-12.6	60	0.01
25 T	2-Butanone	0.215	0.224	-4.2	55	0.02
26 T	2,2-Dichloropropane	1.044	1.140	-9.2	60	0.02
27 T	cis-1,2-Dichloroethene	0.721	0.773	-7.2	57	0.01
28 T	Bromochloromethane	0.516	0.537	-4.1	56	0.01
29 T	Tetrahydrofuran	0.122	0.118	3.3	51	0.01
30 C	Chloroform	1.195	1.366	-14.3#	61	0.01
31 T	Cyclohexane	1.029	0.998	3.0	54	0.01
32 T	1,1,1-Trichloroethane	1.047	1.178	-12.5	60	0.01
33 S	1,2-Dichloroethane-d4	0.616	0.615	0.2	58	0.01
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	55	0.01
35 S	Dibromofluoromethane	0.330	0.356	-7.9	61	0.01
36 T	1,1-Dichloropropene	0.475	0.516	-8.6	57	0.01
37 T	Ethyl Acetate	0.248	0.240	3.2	51	0.01
38 T	Carbon Tetrachloride	0.510	0.566	-11.0	59	0.01
39 T	Methylcyclohexane	0.599	0.605	-1.0	53	0.00
40 TM	Benzene	1.439	1.597	-11.0	59	0.01
41 T	Methacrylonitrile	0.134	0.149	-11.2	52	0.01
42 TM	1,2-Dichloroethane	0.413	0.447	-8.2	57	0.01
43 T	Isopropyl Acetate	0.505	0.509	-0.8	53	0.01
44 TM	Trichloroethene	0.348	0.373	-7.2	56	0.01
45 C	1,2-Dichloropropane	0.360	0.410	-13.9#	61	0.01
46 T	Dibromomethane	0.197	0.207	-5.1	56	0.00
47 T	Bromodichloromethane	0.522	0.599	-14.8	60	0.00
48 T	Methyl methacrylate	0.222	0.230	-3.6	53	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020029.D
 Acq On : 28 Oct 2024 09:29
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 29 01:51:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	48#	0.00
50 S	Toluene-d8	1.218	1.274	-4.6	59	0.00
51 T	4-Methyl-2-Pentanone	0.258	0.266	-3.1	54	0.00
52 CM	Toluene	0.898	1.015	-13.0#	59	0.00
53 T	t-1,3-Dichloropropene	0.470	0.510	-8.5	56	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.609	-9.9	58	0.00
55 T	1,1,2-Trichloroethane	0.259	0.279	-7.7	57	0.00
56 T	Ethyl methacrylate	0.372	0.385	-3.5	52	0.00
57 T	1,3-Dichloropropane	0.455	0.495	-8.8	57	0.00
58 T	2-Chloroethyl Vinyl ether	0.173	0.192	-11.0	61	0.00
59 T	2-Hexanone	0.184	0.195	-6.0	54	0.00
60 T	Dibromochloromethane	0.333	0.358	-7.5	57	0.00
61 T	1,2-Dibromoethane	0.234	0.239	-2.1	53	0.00
62 S	4-Bromofluorobenzene	0.440	0.458	-4.1	59	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	55	0.00
64 T	Tetrachloroethene	0.356	0.353	0.8	52	0.00
65 PM	Chlorobenzene	1.144	1.258	-10.0	59	0.00
66 T	1,1,1,2-Tetrachloroethane	0.387	0.440	-13.7	60	0.00
67 C	Ethyl Benzene	2.077	2.358	-13.5#	59	0.00
68 T	m/p-Xylenes	0.767	0.848	-10.6	58	0.00
69 T	o-Xylene	0.737	0.809	-9.8	57	0.00
70 T	Styrene	1.244	1.415	-13.7	59	0.00
71 P	Bromoform	0.207	0.217	-4.8	54	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	54	0.00
73 T	Isopropylbenzene	4.206	4.766	-13.3	61	0.00
74 T	N-amyl acetate	1.114	1.086	2.5	50	0.00
75 P	1,1,2,2-Tetrachloroethane	0.747	0.780	-4.4	55	0.00
76 T	1,2,3-Trichloropropane	0.979	0.454	53.6#	25#	0.00
77 T	Bromobenzene	0.892	0.927	-3.9	55	0.00
78 T	n-propylbenzene	5.082	5.837	-14.9	61	0.00
79 T	2-Chlorotoluene	2.913	3.267	-12.2	60	0.00
80 T	1,3,5-Trimethylbenzene	3.396	3.773	-11.1	59	0.00
81 T	trans-1,4-Dichloro-2-butene	0.243	0.250	-2.9	54	0.00
82 T	4-Chlorotoluene	2.979	3.306	-11.0	59	0.00
83 T	tert-Butylbenzene	3.043	3.499	-15.0	61	0.00
84 T	1,2,4-Trimethylbenzene	3.367	3.747	-11.3	59	0.00
85 T	sec-Butylbenzene	4.546	5.207	-14.5	60	0.00
86 T	p-Isopropyltoluene	3.691	4.157	-12.6	59	0.00
87 T	1,3-Dichlorobenzene	1.802	1.927	-6.9	57	0.00
88 T	1,4-Dichlorobenzene	1.771	1.886	-6.5	57	0.00
89 T	n-Butylbenzene	3.605	4.112	-14.1	58	0.00
90 T	Hexachloroethane	0.719	0.851	-18.4	63	0.00
91 T	1,2-Dichlorobenzene	1.584	1.658	-4.7	56	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.119	0.112	5.9	50	0.00
93 T	1,2,4-Trichlorobenzene	0.888	0.864	2.7	49#	0.00
94 T	Hexachlorobutadiene	0.494	0.479	3.0	49#	0.00
95 T	Naphthalene	1.675	1.551	7.4	46#	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020029.D
Acq On : 28 Oct 2024 09:29
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Oct 29 01:51:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 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	0.751	0.715	4.8	47#	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020029.D
 Acq On : 28 Oct 2024 09:29
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 29 01:51:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	55	0.01
2 T	Dichlorodifluoromethane	50.000	41.553	16.9	46	0.00
3 P	Chloromethane	50.000	49.134	1.7	53	0.01
4 C	Vinyl Chloride	50.000	50.058	-0.1#	53	0.00
5 T	Bromomethane	50.000	53.264	-6.5	57	0.01
6 T	Chloroethane	50.000	53.992	-8.0	58	0.00
7 T	Trichlorofluoromethane	50.000	50.195	-0.4	54	0.01
8 T	Diethyl Ether	50.000	46.525	7.0	49	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.293	-2.6	56	0.02
10 T	Methyl Iodide	50.000	46.709	6.6	47	0.01
11 T	Tert butyl alcohol	250.000	178.815	28.5#	40	0.02
12 CM	1,1-Dichloroethene	50.000	48.413	3.2#	52	0.02
13 T	Acrolein	250.000	102.486	59.0#	25	0.02
14 T	Allyl chloride	50.000	53.095	-6.2	56	0.02
15 T	Acrylonitrile	250.000	252.807	-1.1	53	0.02
16 T	Acetone	250.000	286.756	-14.7	59	0.01
17 T	Carbon Disulfide	50.000	41.377	17.2	42	0.02
18 T	Methyl Acetate	50.000	54.563	-9.1	59	0.02
19 T	Methyl tert-butyl Ether	50.000	50.218	-0.4	54	0.01
20 T	Methylene Chloride	50.000	52.431	-4.9	55	0.02
21 T	trans-1,2-Dichloroethene	50.000	50.369	-0.7	53	0.02
22 T	Diisopropyl ether	50.000	57.195	-14.4	61	0.01
23 T	Vinyl Acetate	250.000	257.885	-3.2	53	0.02
24 P	1,1-Dichloroethane	50.000	56.333	-12.7	60	0.01
25 T	2-Butanone	250.000	260.783	-4.3	55	0.02
26 T	2,2-Dichloropropane	50.000	54.627	-9.3	60	0.02
27 T	cis-1,2-Dichloroethene	50.000	53.542	-7.1	57	0.01
28 T	Bromochloromethane	50.000	52.071	-4.1	56	0.01
29 T	Tetrahydrofuran	250.000	240.906	3.6	51	0.01
30 C	Chloroform	50.000	57.193	-14.4#	61	0.01
31 T	Cyclohexane	50.000	48.520	3.0	54	0.01
32 T	1,1,1-Trichloroethane	50.000	56.261	-12.5	60	0.01
33 S	1,2-Dichloroethane-d4	50.000	49.972	0.1	58	0.01
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	55	0.01
35 S	Dibromofluoromethane	50.000	53.961	-7.9	61	0.01
36 T	1,1-Dichloropropene	50.000	54.300	-8.6	57	0.01
37 T	Ethyl Acetate	50.000	48.434	3.1	51	0.01
38 T	Carbon Tetrachloride	50.000	55.562	-11.1	59	0.01
39 T	Methylcyclohexane	50.000	50.535	-1.1	53	0.00
40 TM	Benzene	50.000	55.502	-11.0	59	0.01
41 T	Methacrylonitrile	50.000	55.435	-10.9	52	0.01
42 TM	1,2-Dichloroethane	50.000	54.043	-8.1	57	0.01
43 T	Isopropyl Acetate	50.000	50.350	-0.7	53	0.01
44 TM	Trichloroethene	50.000	53.575	-7.2	56	0.01
45 C	1,2-Dichloropropane	50.000	56.998	-14.0#	61	0.01
46 T	Dibromomethane	50.000	52.665	-5.3	56	0.00
47 T	Bromodichloromethane	50.000	57.373	-14.7	60	0.00
48 T	Methyl methacrylate	50.000	51.738	-3.5	53	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020029.D
Acq On : 28 Oct 2024 09:29
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Oct 29 01:51:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 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	952.008	4.8	48	0.00
50 S	Toluene-d8	50.000	52.284	-4.6	59	0.00
51 T	4-Methyl-2-Pentanone	250.000	257.904	-3.2	54	0.00
52 CM	Toluene	50.000	56.497	-13.0#	59	0.00
53 T	t-1,3-Dichloropropene	50.000	54.321	-8.6	56	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.911	-9.8	58	0.00
55 T	1,1,2-Trichloroethane	50.000	53.729	-7.5	57	0.00
56 T	Ethyl methacrylate	50.000	51.720	-3.4	52	0.00
57 T	1,3-Dichloropropane	50.000	54.361	-8.7	57	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	276.525	-10.6	61	0.00
59 T	2-Hexanone	250.000	264.753	-5.9	54	0.00
60 T	Dibromochloromethane	50.000	53.776	-7.6	57	0.00
61 T	1,2-Dibromoethane	50.000	50.950	-1.9	53	0.00
62 S	4-Bromofluorobenzene	50.000	51.997	-4.0	59	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	55	0.00
64 T	Tetrachloroethene	50.000	49.663	0.7	52	0.00
65 PM	Chlorobenzene	50.000	55.011	-10.0	59	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	56.920	-13.8	60	0.00
67 C	Ethyl Benzene	50.000	56.751	-13.5#	59	0.00
68 T	m/p-Xylenes	100.000	110.508	-10.5	58	0.00
69 T	o-Xylene	50.000	54.869	-9.7	57	0.00
70 T	Styrene	50.000	56.879	-13.8	59	0.00
71 P	Bromoform	50.000	52.419	-4.8	54	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	54	0.00
73 T	Isopropylbenzene	50.000	56.664	-13.3	61	0.00
74 T	N-amyl acetate	50.000	48.768	2.5	50	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.184	-4.4	55	0.00
76 T	1,2,3-Trichloropropane	50.000	23.169	53.7#	25	0.00
77 T	Bromobenzene	50.000	51.940	-3.9	55	0.00
78 T	n-propylbenzene	50.000	57.434	-14.9	61	0.00
79 T	2-Chlorotoluene	50.000	56.075	-12.2	60	0.00
80 T	1,3,5-Trimethylbenzene	50.000	55.547	-11.1	59	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.548	-3.1	54	0.00
82 T	4-Chlorotoluene	50.000	55.488	-11.0	59	0.00
83 T	tert-Butylbenzene	50.000	57.504	-15.0	61	0.00
84 T	1,2,4-Trimethylbenzene	50.000	55.630	-11.3	59	0.00
85 T	sec-Butylbenzene	50.000	57.270	-14.5	60	0.00
86 T	p-Isopropyltoluene	50.000	56.301	-12.6	59	0.00
87 T	1,3-Dichlorobenzene	50.000	53.454	-6.9	57	0.00
88 T	1,4-Dichlorobenzene	50.000	53.256	-6.5	57	0.00
89 T	n-Butylbenzene	50.000	57.042	-14.1	58	0.00
90 T	Hexachloroethane	50.000	59.200	-18.4	63	0.00
91 T	1,2-Dichlorobenzene	50.000	52.355	-4.7	56	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.978	6.0	50	0.00
93 T	1,2,4-Trichlorobenzene	50.000	48.641	2.7	49	0.00
94 T	Hexachlorobutadiene	50.000	48.490	3.0	49	0.00
95 T	Naphthalene	50.000	46.315	7.4	46	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020029.D
Acq On : 28 Oct 2024 09:29
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Oct 29 01:51:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 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	47.596	4.8	47	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_Y Calibration Date/Time: 10/29/2024 09:31

Lab File ID: VY020049.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.465	0.383		-17.63	20
Chloromethane	0.606	0.593	0.1	-2.14	20
Vinyl Chloride	0.667	0.694		4.05	20
Bromomethane	0.422	0.450		6.64	20
Chloroethane	0.448	0.501		11.83	20
Trichlorofluoromethane	0.992	1.025		3.33	20
1,1,2-Trichlorotrifluoroethane	0.577	0.614		6.41	20
1,1-Dichloroethene	0.536	0.519		-3.17	20
Acetone	0.160	0.195		21.88	20
Carbon Disulfide	1.438	1.194		-16.97	20
Methyl tert-butyl Ether	1.541	1.647		6.88	20
Methyl Acetate	0.345	0.400		15.94	20
Methylene Chloride	0.647	0.645		-0.31	20
trans-1,2-Dichloroethene	0.584	0.597		2.23	20
1,1-Dichloroethane	1.172	1.365	0.1	16.47	20
Cyclohexane	1.029	1.013		-1.55	20
2-Butanone	0.215	0.246		14.42	20
Carbon Tetrachloride	0.510	0.585		14.71	20
cis-1,2-Dichloroethene	0.721	0.800		10.96	20
Bromochloromethane	0.516	0.579		12.21	20
Chloroform	1.195	1.405		17.57	20
1,1,1-Trichloroethane	1.047	1.210		15.57	20
Methylcyclohexane	0.599	0.611		2	20
Benzene	1.439	1.633		13.48	20
1,2-Dichloroethane	0.413	0.464		12.35	20
Trichloroethene	0.348	0.373		7.18	20
1,2-Dichloropropane	0.360	0.422		17.22	20
Bromodichloromethane	0.522	0.617		18.2	20
4-Methyl-2-Pentanone	0.258	0.299		15.89	20
Toluene	0.898	1.046		16.48	20
t-1,3-Dichloropropene	0.470	0.538		14.47	20
cis-1,3-Dichloropropene	0.554	0.628		13.36	20
1,1,2-Trichloroethane	0.259	0.297		14.67	20
2-Hexanone	0.184	0.220		19.57	20
Dibromochloromethane	0.333	0.380		14.11	20
1,2-Dibromoethane	0.234	0.255		8.97	20
Tetrachloroethene	0.356	0.365		2.53	20
Chlorobenzene	1.144	1.294	0.3	13.11	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: MSVOA_Y Calibration Date/Time: 10/29/2024 09:31

Lab File ID: VY020049.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.077	2.430		17	20
m/p-Xylenes	0.767	0.886		15.52	20
o-Xylene	0.737	0.853		15.74	20
Styrene	1.244	1.454		16.88	20
Bromoform	0.207	0.236	0.1	14.01	20
Isopropylbenzene	4.206	4.808		14.31	20
1,1,2,2-Tetrachloroethane	0.747	0.845	0.3	13.12	20
1,3-Dichlorobenzene	1.802	1.973		9.49	20
1,4-Dichlorobenzene	1.771	1.931		9.03	20
1,2-Dichlorobenzene	1.584	1.731		9.28	20
1,2-Dibromo-3-Chloropropane	0.119	0.125		5.04	20
1,2,4-Trichlorobenzene	0.888	0.903		1.69	20
1,2,3-Trichlorobenzene	0.751	0.754		0.4	20
1,2-Dichloroethane-d4	0.616	0.598		-2.92	20
Dibromofluoromethane	0.330	0.325		-1.51	20
Toluene-d8	1.218	1.184		-2.79	20
4-Bromofluorobenzene	0.440	0.424		-3.64	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
 Data File : VY020049.D
 Acq On : 29 Oct 2024 09:31
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
 Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:18:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.719	168	196359	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.622	114	345491	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	298572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	148124	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	117432	48.571	ug/l	0.01
Spiked Amount 50.000	Range 50	- 163	Recovery	=	97.140%	
35) Dibromofluoromethane	7.646	113	112322	49.267	ug/l	0.01
Spiked Amount 50.000	Range 54	- 147	Recovery	=	98.540%	
50) Toluene-d8	10.115	98	409200	48.603	ug/l	0.00
Spiked Amount 50.000	Range 58	- 134	Recovery	=	97.200%	
62) 4-Bromofluorobenzene	12.407	95	146620	48.197	ug/l	0.00
Spiked Amount 50.000	Range 29	- 146	Recovery	=	96.400%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.873	85	75203	41.141	ug/l	99
3) Chloromethane	2.080	50	116367	48.912	ug/l	97
4) Vinyl Chloride	2.214	62	136332	52.074	ug/l	100
5) Bromomethane	2.604	94	88273	53.269	ug/l	99
6) Chloroethane	2.751	64	98416	55.956	ug/l	99
7) Trichlorofluoromethane	3.074	101	201278	51.668	ug/l	99
8) Diethyl Ether	3.464	74	59632	50.366	ug/l	76
9) 1,1,2-Trichlorotrifluo...	3.836	101	120594	53.220	ug/l	91
10) Methyl Iodide	4.019	142	108215	47.219	ug/l	91
11) Tert butyl alcohol	4.866	59	46612	237.055	ug/l #	85
12) 1,1-Dichloroethene	3.805	96	102003	48.422	ug/l #	82
13) Acrolein	3.671	56	17883	100.661	ug/l	98
14) Allyl chloride	4.397	41	207375	54.560	ug/l #	89
15) Acrylonitrile	5.073	53	151512	279.782	ug/l	98
16) Acetone	3.885	43	191501	304.268	ug/l #	83
17) Carbon Disulfide	4.122	76	234437	41.520	ug/l	100
18) Methyl Acetate	4.403	43	78553	57.939	ug/l	89
19) Methyl tert-butyl Ether	5.128	73	323372	53.433	ug/l	92
20) Methylene Chloride	4.634	84	126707	54.559	ug/l #	79
21) trans-1,2-Dichloroethene	5.128	96	117189	51.114	ug/l #	79
22) Diisopropyl ether	6.031	45	492070	59.436	ug/l #	89
23) Vinyl Acetate	5.976	43	1326335	279.455	ug/l #	89
24) 1,1-Dichloroethane	5.927	63	268044	58.244	ug/l	96
25) 2-Butanone	6.902	43	241718	286.924	ug/l #	84
26) 2,2-Dichloropropane	6.896	77	231206	56.413	ug/l	93
27) cis-1,2-Dichloroethene	6.902	96	157026	55.421	ug/l	82
28) Bromochloromethane	7.256	49	113629	56.097	ug/l #	70
29) Tetrahydrofuran	7.268	42	132282	275.004	ug/l #	81
30) Chloroform	7.427	83	275893	58.810	ug/l	96
31) Cyclohexane	7.713	56	198971	49.253	ug/l	89
32) 1,1,1-Trichloroethane	7.628	97	237689	57.814	ug/l #	94
36) 1,1-Dichloropropene	7.847	75	184141	56.063	ug/l	93
37) Ethyl Acetate	6.994	43	92941	54.266	ug/l	97
38) Carbon Tetrachloride	7.829	117	202199	57.424	ug/l	98
39) Methylcyclohexane	9.115	83	211040	50.994	ug/l #	85
40) Benzene	8.091	78	564030	56.742	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
 Data File : VY020049.D
 Acq On : 29 Oct 2024 09:31
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024

Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:18:58 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M

Quant Title : SW846 8260

QLast Update : Wed Oct 16 05:44:48 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	60021	64.751	ug/l #	81
42) 1,2-Dichloroethane	8.164	62	160225	56.106	ug/l	94
43) Isopropyl Acetate	8.201	43	190539	54.551	ug/l #	77
44) Trichloroethene	8.871	130	128774	53.487	ug/l	86
45) 1,2-Dichloropropane	9.146	63	145854	58.622	ug/l	98
46) Dibromomethane	9.237	93	75044	55.206	ug/l	90
47) Bromodichloromethane	9.426	83	213312	59.120	ug/l #	99
48) Methyl methacrylate	9.225	41	87758	57.118	ug/l #	79
49) 1,4-Dioxane	9.237	88	15865	1042.772	ug/l #	82
51) 4-Methyl-2-Pentanone	10.005	43	517008	290.196	ug/l	88
52) Toluene	10.176	92	361431	58.250	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	185993	57.291	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	216901	56.622	ug/l #	83
55) 1,1,2-Trichloroethane	10.579	97	102661	57.322	ug/l	94
56) Ethyl methacrylate	10.444	69	143217	55.730	ug/l #	72
57) 1,3-Dichloropropane	10.719	76	180373	57.349	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.719	63	344949	288.337	ug/l	92
59) 2-Hexanone	10.768	43	380047	298.670	ug/l	86
60) Dibromochloromethane	10.914	129	131374	57.151	ug/l	99
61) 1,2-Dibromoethane	11.017	107	88152	54.469	ug/l	99
64) Tetrachloroethene	10.652	164	108872	51.265	ug/l	94
65) Chlorobenzene	11.444	112	386485	56.594	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	132456	57.328	ug/l	100
67) Ethyl Benzene	11.523	91	725459	58.480	ug/l	100
68) m/p-Xylenes	11.633	106	529250	115.518	ug/l	92
69) o-Xylene	11.956	106	254636	57.846	ug/l	93
70) Styrene	11.975	104	434060	58.446	ug/l	96
71) Bromoform	12.133	173	70493	56.992	ug/l #	95
73) Isopropylbenzene	12.261	105	712234	57.165	ug/l	97
74) N-amyl acetate	12.072	43	173487	52.573	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.511	83	125155	56.533	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	81923m	28.232	ug/l	
77) Bromobenzene	12.535	156	138912	52.541	ug/l	82
78) n-propylbenzene	12.596	91	876003	58.188	ug/l	97
79) 2-Chlorotoluene	12.682	91	479863	55.599	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	564000	56.053	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	38807	53.981	ug/l #	84
82) 4-Chlorotoluene	12.779	91	491731	55.721	ug/l	94
83) tert-Butylbenzene	12.999	119	500024	55.473	ug/l	94
84) 1,2,4-Trimethylbenzene	13.048	105	552173	55.351	ug/l	98
85) sec-Butylbenzene	13.182	105	781384	58.020	ug/l	97
86) p-Isopropyltoluene	13.298	119	624312	57.088	ug/l	95
87) 1,3-Dichlorobenzene	13.291	146	292248	54.736	ug/l	97
88) 1,4-Dichlorobenzene	13.371	146	286010	54.527	ug/l	97
89) n-Butylbenzene	13.621	91	626694	58.688	ug/l	98
90) Hexachloroethane	13.883	117	123924	58.195	ug/l	85
91) 1,2-Dichlorobenzene	13.663	146	256423	54.658	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.279	75	18449	52.217	ug/l	75
93) 1,2,4-Trichlorobenzene	14.925	180	133684	50.819	ug/l	97
94) Hexachlorobutadiene	15.029	225	73708	50.398	ug/l	98
95) Naphthalene	15.151	128	253242	51.042	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	111645	50.206	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020049.D
Acq On : 29 Oct 2024 09:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:18:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

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

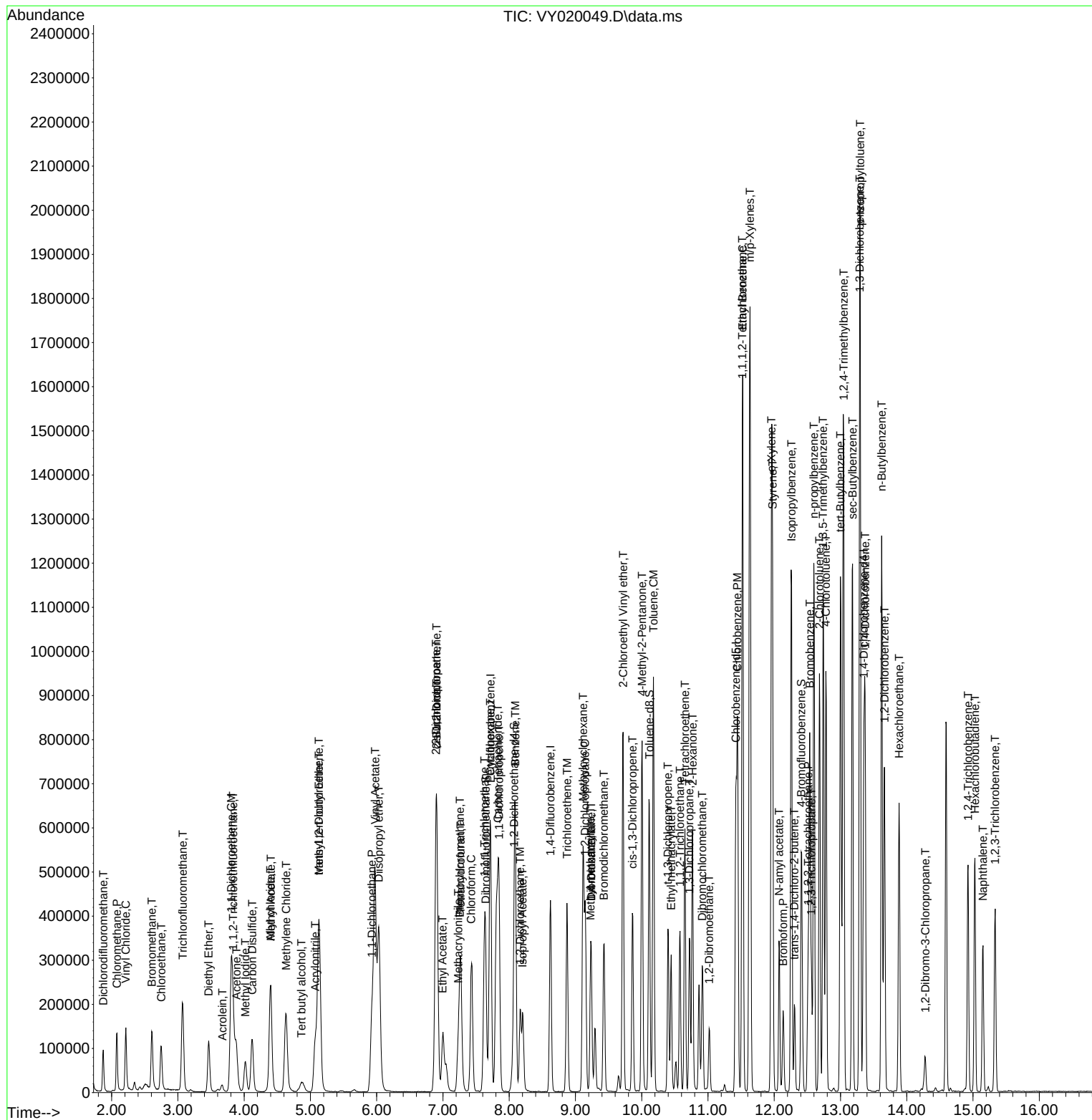
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020049.D
Acq On : 29 Oct 2024 09:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:18:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
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 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 30 01:18:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	52	0.01
2 T	Dichlorodifluoromethane	0.465	0.383	17.6	44#	0.00
3 P	Chloromethane	0.606	0.593	2.1	50	0.01
4 C	Vinyl Chloride	0.667	0.694	-4.0#	53	0.00
5 T	Bromomethane	0.422	0.450	-6.6	54	0.00
6 T	Chloroethane	0.448	0.501	-11.8	57	0.01
7 T	Trichlorofluoromethane	0.992	1.025	-3.3	53	0.01
8 T	Diethyl Ether	0.301	0.304	-1.0	50	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.577	0.614	-6.4	55	0.02
10 T	Methyl Iodide	0.584	0.551	5.7	45#	0.01
11 T	Tert butyl alcohol	0.058	0.047	19.0	49#	0.00
12 CM	1,1-Dichloroethene	0.536	0.519	3.2#	49#	0.02
13 T	Acrolein	0.045	0.018	60.0#	24#	0.02
14 T	Allyl chloride	0.968	1.056	-9.1	54	0.01
15 T	Acrylonitrile	0.138	0.154	-11.6	56	0.02
16 T	Acetone	0.160	0.195	-21.9	60	0.01
17 T	Carbon Disulfide	1.438	1.194	17.0	40#	0.02
18 T	Methyl Acetate	0.345	0.400	-15.9	60	0.02
19 T	Methyl tert-butyl Ether	1.541	1.647	-6.9	55	0.01
20 T	Methylene Chloride	0.647	0.645	0.3	54	0.02
21 T	trans-1,2-Dichloroethene	0.584	0.597	-2.2	51	0.02
22 T	Diisopropyl ether	2.108	2.506	-18.9	60	0.01
23 T	Vinyl Acetate	1.209	1.351	-11.7	55	0.02
24 P	1,1-Dichloroethane	1.172	1.365	-16.5	59	0.01
25 T	2-Butanone	0.215	0.246	-14.4	58	0.01
26 T	2,2-Dichloropropane	1.044	1.177	-12.7	59	0.01
27 T	cis-1,2-Dichloroethene	0.721	0.800	-11.0	56	0.01
28 T	Bromochloromethane	0.516	0.579	-12.2	57	0.01
29 T	Tetrahydrofuran	0.122	0.135	-10.7	55	0.00
30 C	Chloroform	1.195	1.405	-17.6#	60	0.00
31 T	Cyclohexane	1.029	1.013	1.6	52	0.01
32 T	1,1,1-Trichloroethane	1.047	1.210	-15.6	59	0.01
33 S	1,2-Dichloroethane-d4	0.616	0.598	2.9	54	0.01
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	53	0.00
35 S	Dibromofluoromethane	0.330	0.325	1.5	54	0.01
36 T	1,1-Dichloropropene	0.475	0.533	-12.2	57	0.01
37 T	Ethyl Acetate	0.248	0.269	-8.5	55	0.01
38 T	Carbon Tetrachloride	0.510	0.585	-14.7	59	0.01
39 T	Methylcyclohexane	0.599	0.611	-2.0	51	0.00
40 TM	Benzene	1.439	1.633	-13.5	58	0.01
41 T	Methacrylonitrile	0.134	0.174	-29.9#	59	0.01
42 TM	1,2-Dichloroethane	0.413	0.464	-12.3	57	0.00
43 T	Isopropyl Acetate	0.505	0.552	-9.3	56	0.00
44 TM	Trichloroethene	0.348	0.373	-7.2	54	0.00
45 C	1,2-Dichloropropane	0.360	0.422	-17.2#	61	0.00
46 T	Dibromomethane	0.197	0.217	-10.2	57	0.00
47 T	Bromodichloromethane	0.522	0.617	-18.2	60	0.00
48 T	Methyl methacrylate	0.222	0.254	-14.4	57	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020049.D
Acq On : 29 Oct 2024 09:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Oct 30 01:18:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 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	51	0.00
50 S	Toluene-d8	1.218	1.184	2.8	53	0.00
51 T	4-Methyl-2-Pentanone	0.258	0.299	-15.9	59	0.00
52 CM	Toluene	0.898	1.046	-16.5#	59	0.00
53 T	t-1,3-Dichloropropene	0.470	0.538	-14.5	57	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.628	-13.4	57	0.00
55 T	1,1,2-Trichloroethane	0.259	0.297	-14.7	59	0.00
56 T	Ethyl methacrylate	0.372	0.415	-11.6	54	0.00
57 T	1,3-Dichloropropane	0.455	0.522	-14.7	58	0.00
58 T	2-Chloroethyl Vinyl ether	0.173	0.200	-15.6	62	0.00
59 T	2-Hexanone	0.184	0.220	-19.6	59	0.00
60 T	Dibromochloromethane	0.333	0.380	-14.1	59	0.00
61 T	1,2-Dibromoethane	0.234	0.255	-9.0	55	0.00
62 S	4-Bromofluorobenzene	0.440	0.424	3.6	53	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	53	0.00
64 T	Tetrachloroethene	0.356	0.365	-2.5	53	0.00
65 PM	Chlorobenzene	1.144	1.294	-13.1	59	0.00
66 T	1,1,1,2-Tetrachloroethane	0.387	0.444	-14.7	59	0.00
67 C	Ethyl Benzene	2.077	2.430	-17.0#	60	0.00
68 T	m/p-Xylenes	0.767	0.886	-15.5	59	0.00
69 T	o-Xylene	0.737	0.853	-15.7	59	0.00
70 T	Styrene	1.244	1.454	-16.9	59	0.00
71 P	Bromoform	0.207	0.236	-14.0	57	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	54	0.00
73 T	Isopropylbenzene	4.206	4.808	-14.3	61	0.00
74 T	N-amyl acetate	1.114	1.171	-5.1	54	0.00
75 P	1,1,2,2-Tetrachloroethane	0.747	0.845	-13.1	60	0.00
76 T	1,2,3-Trichloropropane	0.979	0.553	43.5#	30#	0.00
77 T	Bromobenzene	0.892	0.938	-5.2	56	0.00
78 T	n-propylbenzene	5.082	5.914	-16.4	62	0.00
79 T	2-Chlorotoluene	2.913	3.240	-11.2	59	0.00
80 T	1,3,5-Trimethylbenzene	3.396	3.808	-12.1	60	0.00
81 T	trans-1,4-Dichloro-2-butene	0.243	0.262	-7.8	57	0.00
82 T	4-Chlorotoluene	2.979	3.320	-11.4	60	0.00
83 T	tert-Butylbenzene	3.043	3.376	-10.9	59	0.00
84 T	1,2,4-Trimethylbenzene	3.367	3.728	-10.7	59	0.00
85 T	sec-Butylbenzene	4.546	5.275	-16.0	61	0.00
86 T	p-Isopropyltoluene	3.691	4.215	-14.2	60	0.00
87 T	1,3-Dichlorobenzene	1.802	1.973	-9.5	59	0.00
88 T	1,4-Dichlorobenzene	1.771	1.931	-9.0	58	0.00
89 T	n-Butylbenzene	3.605	4.231	-17.4	60	0.00
90 T	Hexachloroethane	0.719	0.837	-16.4	62	0.00
91 T	1,2-Dichlorobenzene	1.584	1.731	-9.3	58	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.119	0.125	-5.0	56	0.00
93 T	1,2,4-Trichlorobenzene	0.888	0.903	-1.7	51	0.00
94 T	Hexachlorobutadiene	0.494	0.498	-0.8	51	0.00
95 T	Naphthalene	1.675	1.710	-2.1	50	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020049.D
Acq On : 29 Oct 2024 09:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Oct 30 01:18:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 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	0.751	0.754	-0.4	50#	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
 Data File : VY020049.D
 Acq On : 29 Oct 2024 09:31
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 30 01:18:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	52	0.01
2 T	Dichlorodifluoromethane	50.000	41.141	17.7	44	0.00
3 P	Chloromethane	50.000	48.912	2.2	50	0.01
4 C	Vinyl Chloride	50.000	52.074	-4.1#	53	0.00
5 T	Bromomethane	50.000	53.269	-6.5	54	0.00
6 T	Chloroethane	50.000	55.956	-11.9	57	0.01
7 T	Trichlorofluoromethane	50.000	51.668	-3.3	53	0.01
8 T	Diethyl Ether	50.000	50.366	-0.7	50	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.220	-6.4	55	0.02
10 T	Methyl Iodide	50.000	47.219	5.6	45	0.01
11 T	Tert butyl alcohol	250.000	237.055	5.2	49	0.00
12 CM	1,1-Dichloroethene	50.000	48.422	3.2#	49	0.02
13 T	Acrolein	250.000	100.661	59.7#	24	0.02
14 T	Allyl chloride	50.000	54.560	-9.1	54	0.01
15 T	Acrylonitrile	250.000	279.782	-11.9	56	0.02
16 T	Acetone	250.000	304.268	-21.7	60	0.01
17 T	Carbon Disulfide	50.000	41.520	17.0	40	0.02
18 T	Methyl Acetate	50.000	57.939	-15.9	60	0.02
19 T	Methyl tert-butyl Ether	50.000	53.433	-6.9	55	0.01
20 T	Methylene Chloride	50.000	54.559	-9.1	54	0.02
21 T	trans-1,2-Dichloroethene	50.000	51.114	-2.2	51	0.02
22 T	Diisopropyl ether	50.000	59.436	-18.9	60	0.01
23 T	Vinyl Acetate	250.000	279.455	-11.8	55	0.02
24 P	1,1-Dichloroethane	50.000	58.244	-16.5	59	0.01
25 T	2-Butanone	250.000	286.924	-14.8	58	0.01
26 T	2,2-Dichloropropane	50.000	56.413	-12.8	59	0.01
27 T	cis-1,2-Dichloroethene	50.000	55.421	-10.8	56	0.01
28 T	Bromochloromethane	50.000	56.097	-12.2	57	0.01
29 T	Tetrahydrofuran	250.000	275.004	-10.0	55	0.00
30 C	Chloroform	50.000	58.810	-17.6#	60	0.00
31 T	Cyclohexane	50.000	49.253	1.5	52	0.01
32 T	1,1,1-Trichloroethane	50.000	57.814	-15.6	59	0.01
33 S	1,2-Dichloroethane-d4	50.000	48.571	2.9	54	0.01
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	53	0.00
35 S	Dibromofluoromethane	50.000	49.267	1.5	54	0.01
36 T	1,1-Dichloropropene	50.000	56.063	-12.1	57	0.01
37 T	Ethyl Acetate	50.000	54.266	-8.5	55	0.01
38 T	Carbon Tetrachloride	50.000	57.424	-14.8	59	0.01
39 T	Methylcyclohexane	50.000	50.994	-2.0	51	0.00
40 TM	Benzene	50.000	56.742	-13.5	58	0.01
41 T	Methacrylonitrile	50.000	64.751	-29.5#	59	0.01
42 TM	1,2-Dichloroethane	50.000	56.106	-12.2	57	0.00
43 T	Isopropyl Acetate	50.000	54.551	-9.1	56	0.00
44 TM	Trichloroethene	50.000	53.487	-7.0	54	0.00
45 C	1,2-Dichloropropane	50.000	58.622	-17.2#	61	0.00
46 T	Dibromomethane	50.000	55.206	-10.4	57	0.00
47 T	Bromodichloromethane	50.000	59.120	-18.2	60	0.00
48 T	Methyl methacrylate	50.000	57.118	-14.2	57	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
 Data File : VY020049.D
 Acq On : 29 Oct 2024 09:31
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 30 01:18:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 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	1042.772	-4.3	51	0.00
50 S	Toluene-d8	50.000	48.603	2.8	53	0.00
51 T	4-Methyl-2-Pentanone	250.000	290.196	-16.1	59	0.00
52 CM	Toluene	50.000	58.250	-16.5#	59	0.00
53 T	t-1,3-Dichloropropene	50.000	57.291	-14.6	57	0.00
54 T	cis-1,3-Dichloropropene	50.000	56.622	-13.2	57	0.00
55 T	1,1,2-Trichloroethane	50.000	57.322	-14.6	59	0.00
56 T	Ethyl methacrylate	50.000	55.730	-11.5	54	0.00
57 T	1,3-Dichloropropane	50.000	57.349	-14.7	58	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	288.337	-15.3	62	0.00
59 T	2-Hexanone	250.000	298.670	-19.5	59	0.00
60 T	Dibromochloromethane	50.000	57.151	-14.3	59	0.00
61 T	1,2-Dibromoethane	50.000	54.469	-8.9	55	0.00
62 S	4-Bromofluorobenzene	50.000	48.197	3.6	53	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	53	0.00
64 T	Tetrachloroethene	50.000	51.265	-2.5	53	0.00
65 PM	Chlorobenzene	50.000	56.594	-13.2	59	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	57.328	-14.7	59	0.00
67 C	Ethyl Benzene	50.000	58.480	-17.0#	60	0.00
68 T	m/p-Xylenes	100.000	115.518	-15.5	59	0.00
69 T	o-Xylene	50.000	57.846	-15.7	59	0.00
70 T	Styrene	50.000	58.446	-16.9	59	0.00
71 P	Bromoform	50.000	56.992	-14.0	57	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	54	0.00
73 T	Isopropylbenzene	50.000	57.165	-14.3	61	0.00
74 T	N-amyl acetate	50.000	52.573	-5.1	54	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	56.533	-13.1	60	0.00
76 T	1,2,3-Trichloropropane	50.000	28.232	43.5#	30	0.00
77 T	Bromobenzene	50.000	52.541	-5.1	56	0.00
78 T	n-propylbenzene	50.000	58.188	-16.4	62	0.00
79 T	2-Chlorotoluene	50.000	55.599	-11.2	59	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.053	-12.1	60	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.981	-8.0	57	0.00
82 T	4-Chlorotoluene	50.000	55.721	-11.4	60	0.00
83 T	tert-Butylbenzene	50.000	55.473	-10.9	59	0.00
84 T	1,2,4-Trimethylbenzene	50.000	55.351	-10.7	59	0.00
85 T	sec-Butylbenzene	50.000	58.020	-16.0	61	0.00
86 T	p-Isopropyltoluene	50.000	57.088	-14.2	60	0.00
87 T	1,3-Dichlorobenzene	50.000	54.736	-9.5	59	0.00
88 T	1,4-Dichlorobenzene	50.000	54.527	-9.1	58	0.00
89 T	n-Butylbenzene	50.000	58.688	-17.4	60	0.00
90 T	Hexachloroethane	50.000	58.195	-16.4	62	0.00
91 T	1,2-Dichlorobenzene	50.000	54.658	-9.3	58	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.217	-4.4	56	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.819	-1.6	51	0.00
94 T	Hexachlorobutadiene	50.000	50.398	-0.8	51	0.00
95 T	Naphthalene	50.000	51.042	-2.1	50	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020049.D
Acq On : 29 Oct 2024 09:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Oct 30 01:18:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 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	50.206	-0.4	50	0.00

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



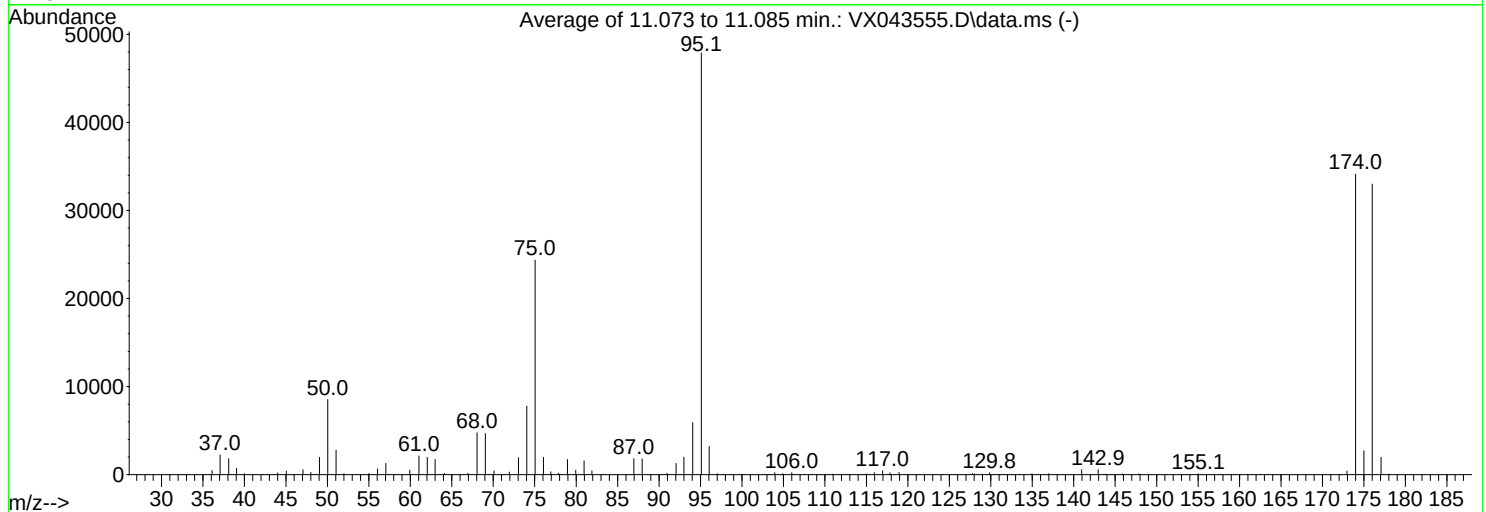
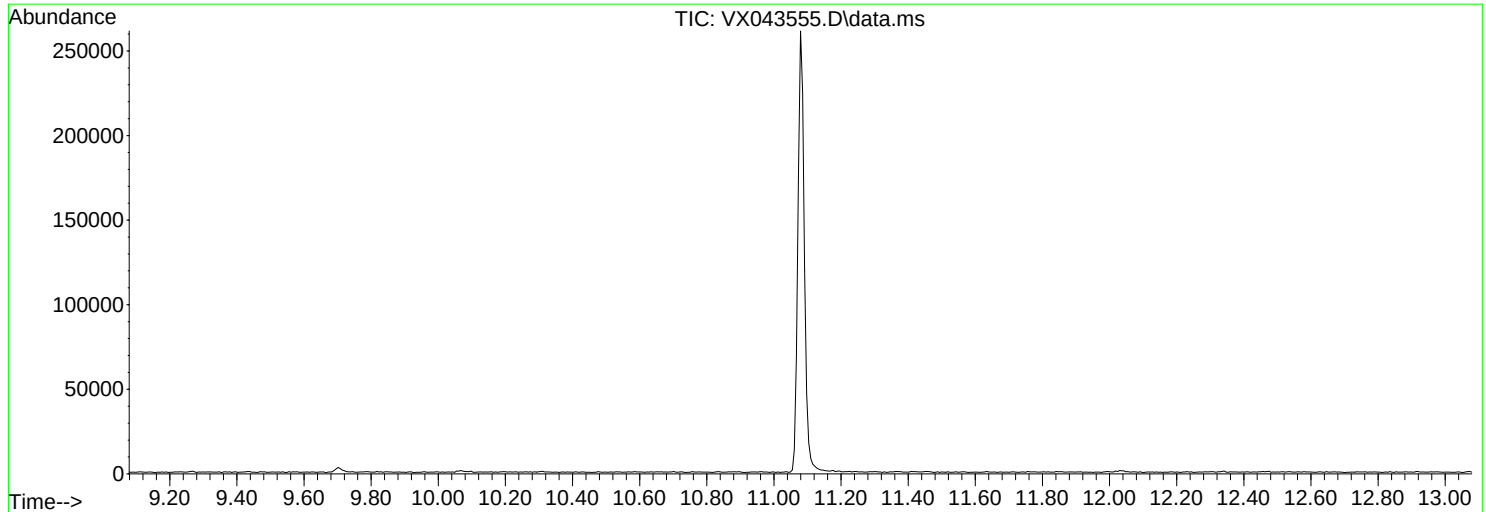
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102824\
Data File : VX043555.D
Acq On : 28 Oct 2024 10:09
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Title : SW846 8260
Last Update : Mon Oct 28 13:41:34 2024



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

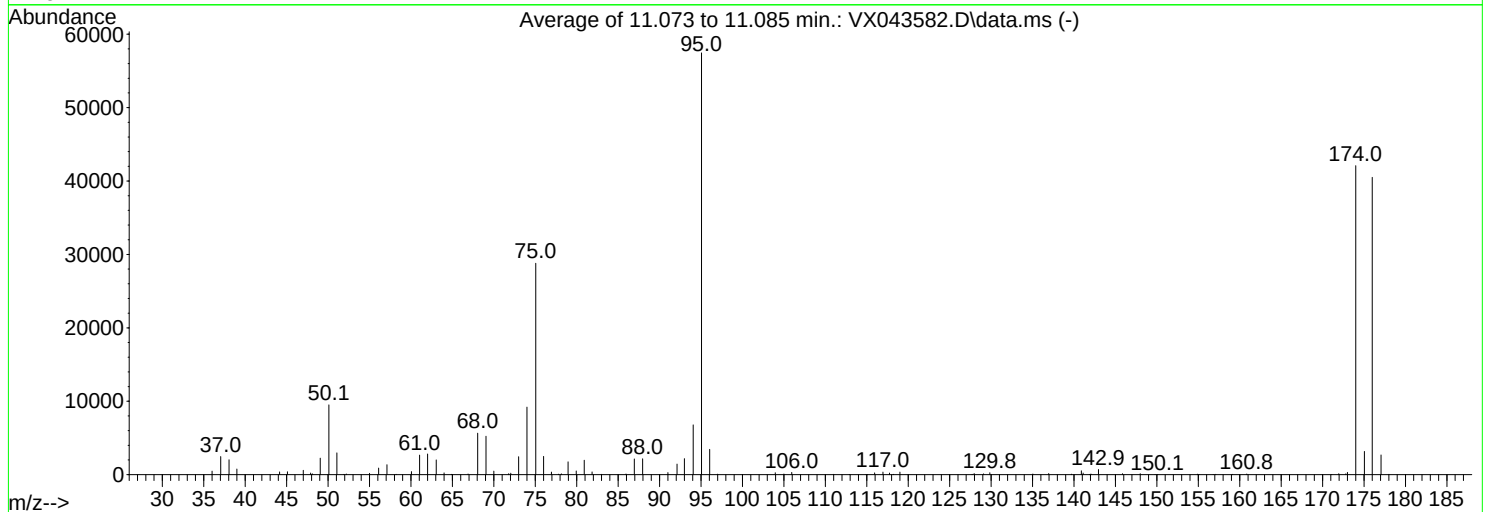
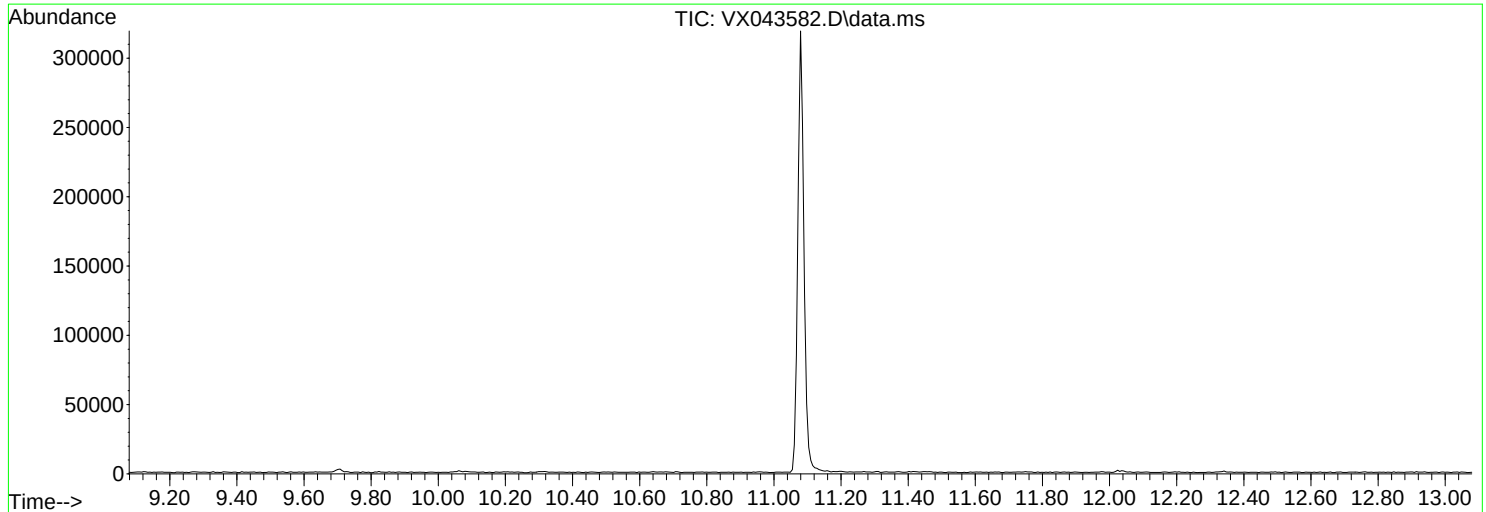
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	17.8	8521	PASS
75	95	30	60	50.9	24360	PASS
95	95	100	100	100.0	47901	PASS
96	95	5	9	6.7	3204	PASS
173	174	0.00	2	1.2	395	PASS
174	95	50	100	71.2	34123	PASS
175	174	5	9	7.9	2705	PASS
176	174	95	101	96.7	32992	PASS
177	176	5	9	6.0	1964	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043582.D
Acq On : 29 Oct 2024 08:30
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Title : SW846 8260
Last Update : Mon Oct 28 13:41:34 2024



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

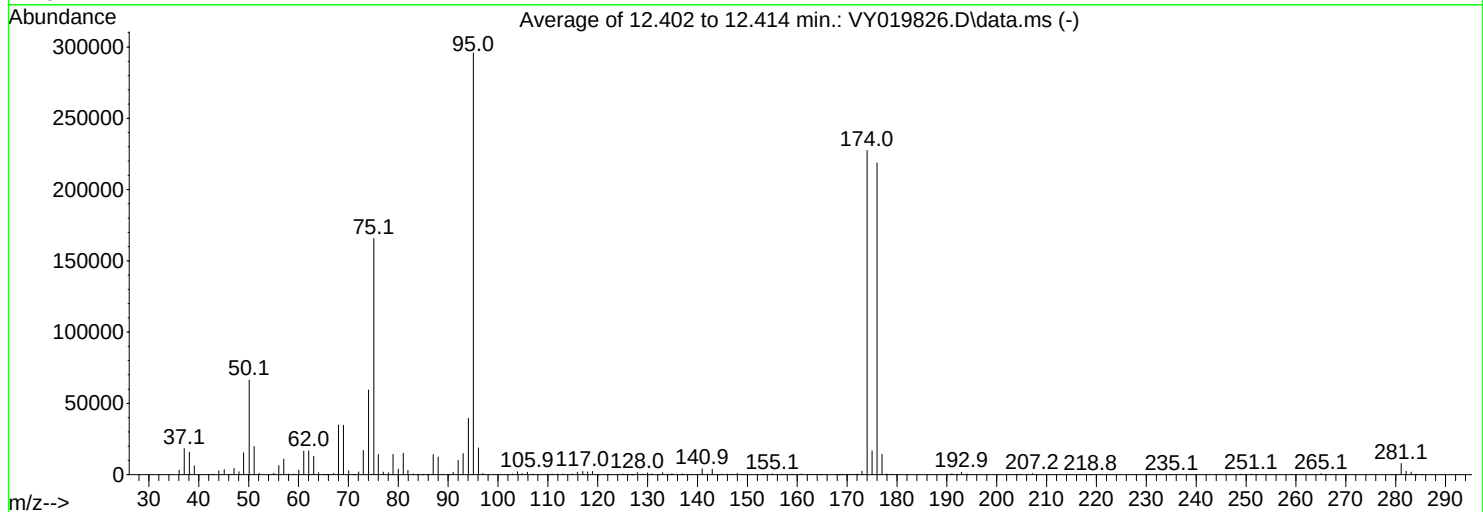
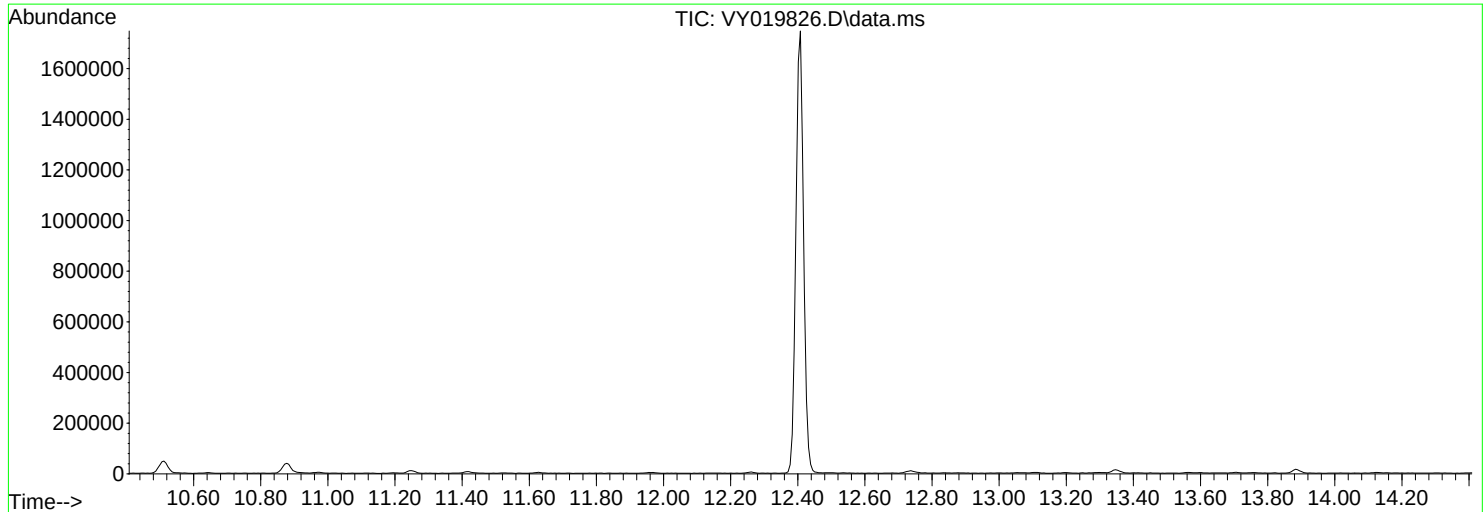
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	16.5	9509	PASS
75	95	30	60	50.1	28803	PASS
95	95	100	100	100.0	57464	PASS
96	95	5	9	6.0	3434	PASS
173	174	0.00	2	0.7	307	PASS
174	95	50	100	73.3	42096	PASS
175	174	5	9	7.5	3171	PASS
176	174	95	101	96.2	40501	PASS
177	176	5	9	6.6	2676	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019826.D
Acq On : 09 Oct 2024 09:33
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\82Y100924S.M
Title : SW846 8260
Last Update : Thu Oct 10 05:30:07 2024



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

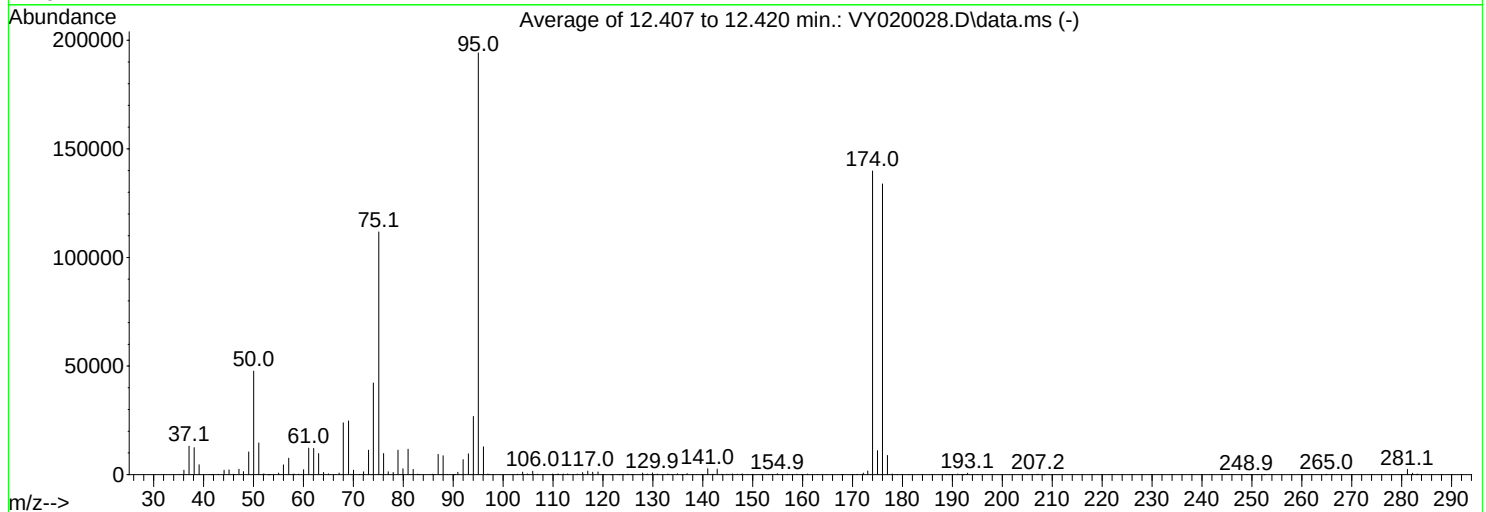
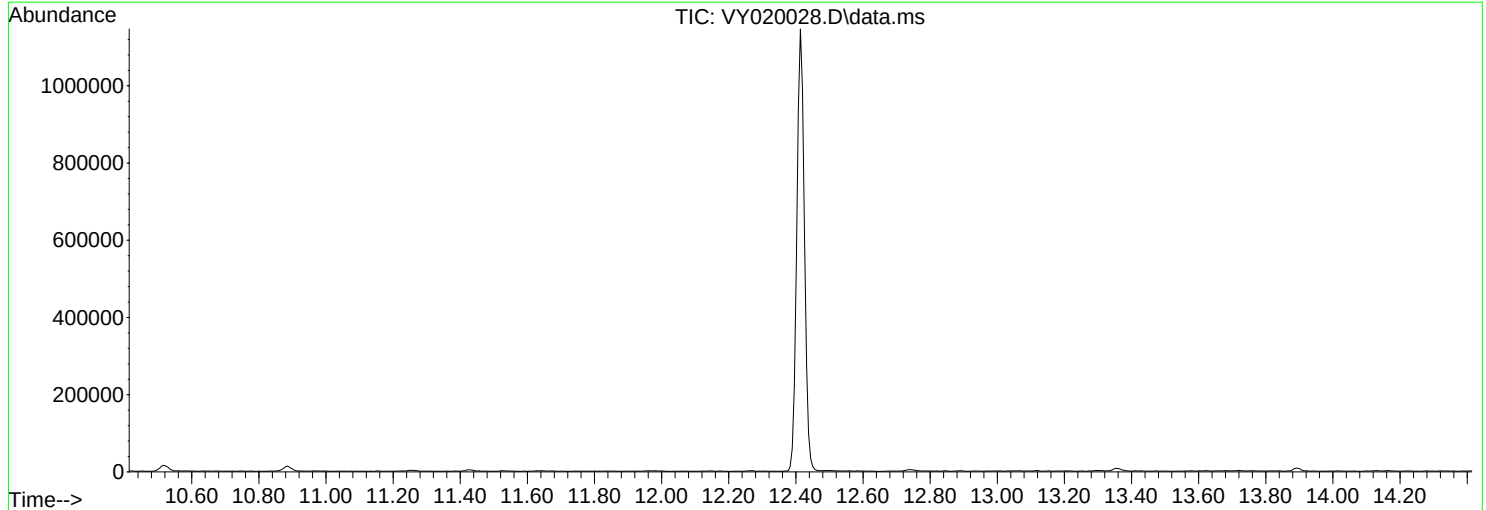
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	66352	PASS
75	95	30	60	56.0	165725	PASS
95	95	100	100	100.0	295936	PASS
96	95	5	9	6.3	18775	PASS
173	174	0.00	2	1.1	2529	PASS
174	95	50	100	76.9	227477	PASS
175	174	5	9	7.3	16688	PASS
176	174	95	101	96.2	218837	PASS
177	176	5	9	6.5	14261	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020028.D
Acq On : 28 Oct 2024 08:55
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\82Y100924S.M
Title : SW846 8260
Last Update : Wed Oct 16 05:44:48 2024



AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1745

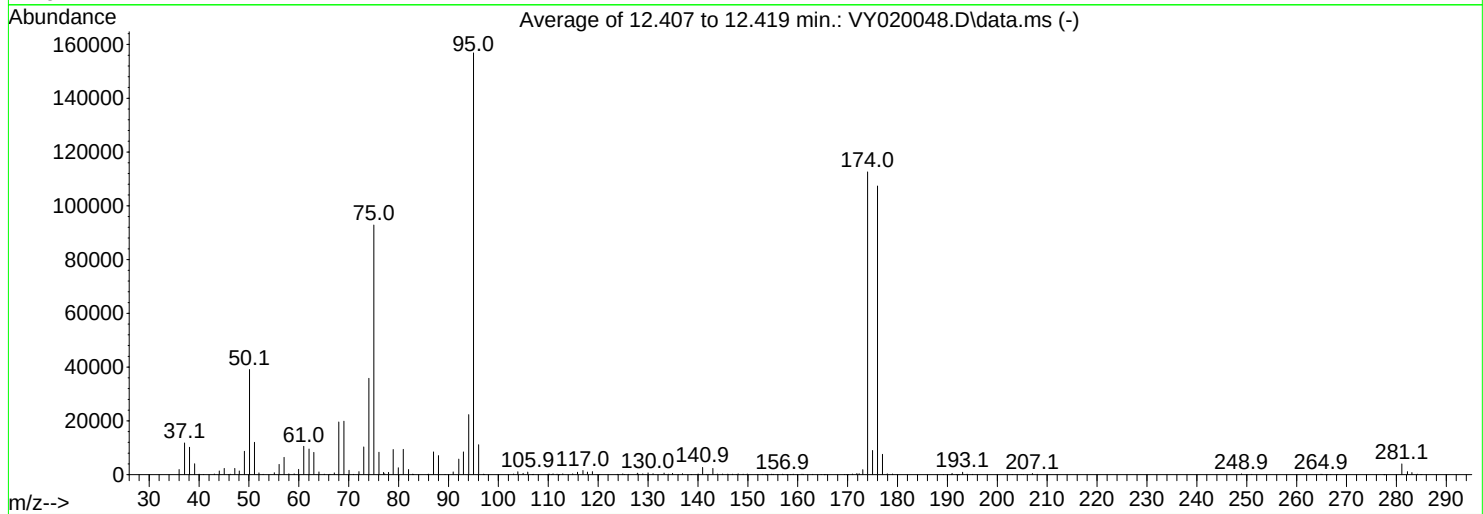
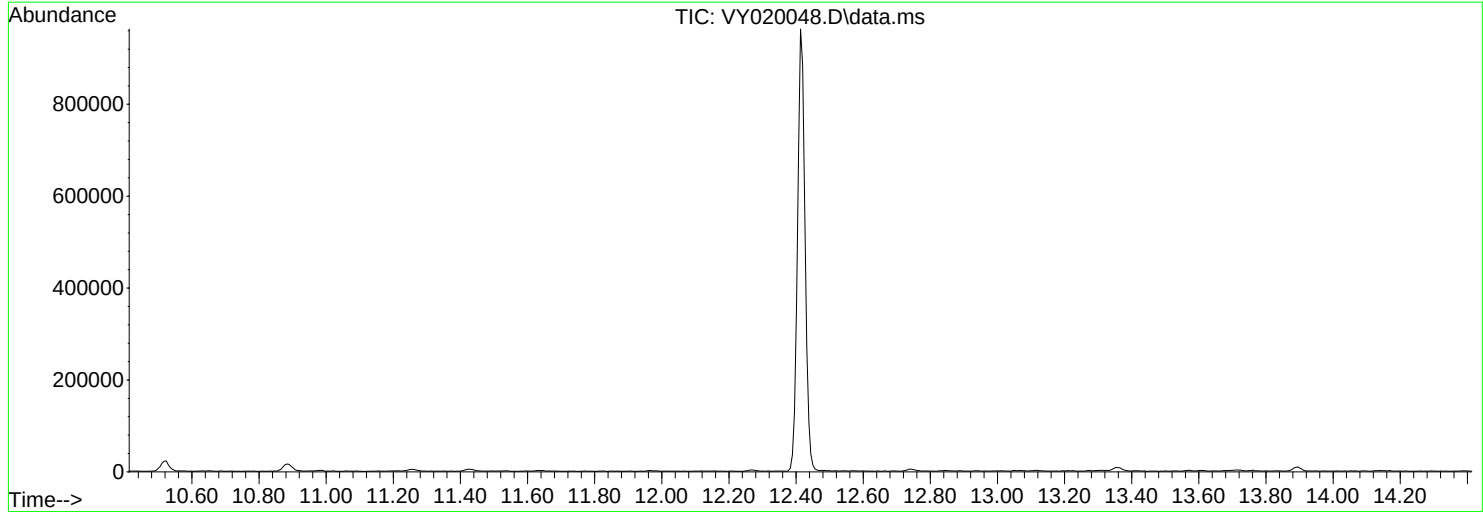
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.5	47640	PASS
75	95	30	60	57.6	111773	PASS
95	95	100	100	100.0	194197	PASS
96	95	5	9	6.6	12841	PASS
173	174	0.00	2	1.2	1678	PASS
174	95	50	100	72.0	139784	PASS
175	174	5	9	7.9	11045	PASS
176	174	95	101	95.8	133875	PASS
177	176	5	9	6.6	8812	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020048.D
Acq On : 29 Oct 2024 08:58
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\82Y100924S.M
Title : SW846 8260
Last Update : Wed Oct 16 05:44:48 2024



AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1745

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	24.9	39088	PASS
75	95	30	60	59.2	92827	PASS
95	95	100	100	100.0	156885	PASS
96	95	5	9	7.1	11123	PASS
173	174	0.00	2	1.6	1851	PASS
174	95	50	100	71.8	112619	PASS
175	174	5	9	8.0	9023	PASS
176	174	95	101	95.3	107336	PASS
177	176	5	9	7.1	7591	PASS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBL01	SDG No.:	P4578
Lab Sample ID:	VX1029WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043585.D	1		10/29/24 10:31	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBL01	SDG No.:	P4578
Lab Sample ID:	VX1029WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043585.D	1		10/29/24 10:31	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.4		70 (74) - 130 (125)	87%	SPK: 50
1868-53-7	Dibromofluoromethane	45.5		70 (75) - 130 (124)	91%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		70 (77) - 130 (121)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	5.55			
540-36-3	1,4-Difluorobenzene	295000	6.757			
3114-55-4	Chlorobenzene-d5	266000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	128000	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VX1029WBL01		SDG No.:	P4578
Lab Sample ID:	VX1029WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043585.D	1		10/29/24 10:31	VX102924

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_X\Data\VX102924\
 Data File : VX043585.D
 Acq On : 29 Oct 2024 10:31
 Operator : JC/MD
 Sample : VX1029WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1029WBL01

Quant Time: Oct 30 01:26:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	160199	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	295395	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	265502	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	128354	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	110928	43.426	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	86.860%
35) Dibromofluoromethane	5.379	113	91054	45.457	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.920%
50) Toluene-d8	8.647	98	350111	50.493	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.980%
62) 4-Bromofluorobenzene	11.079	95	129946	50.575	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.160%

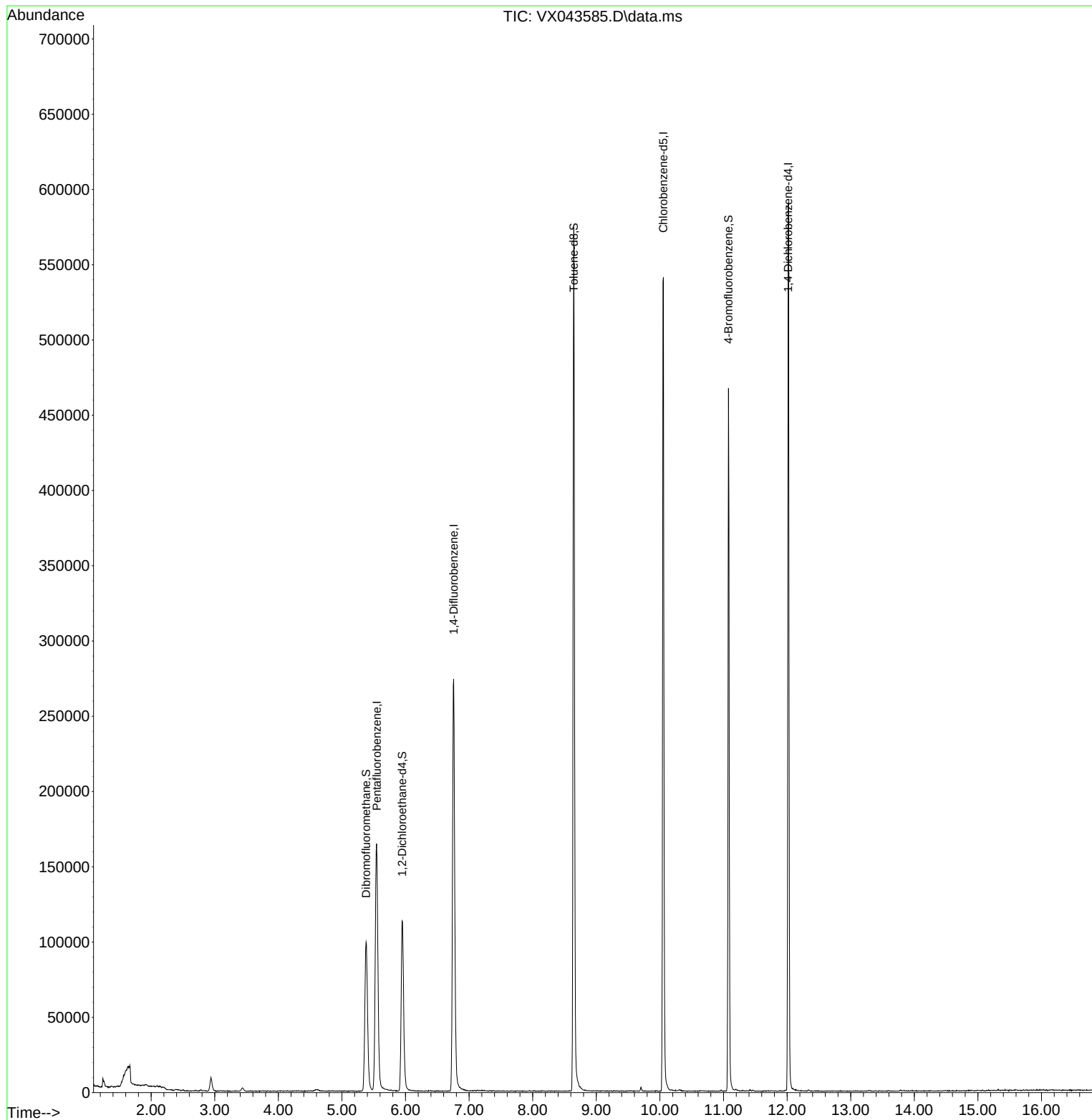
Target Compounds	Qvalue

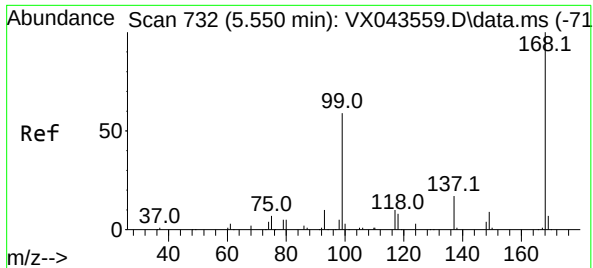
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043585.D
Acq On : 29 Oct 2024 10:31
Operator : JC/MD
Sample : VX1029WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Quant Time: Oct 30 01:26:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

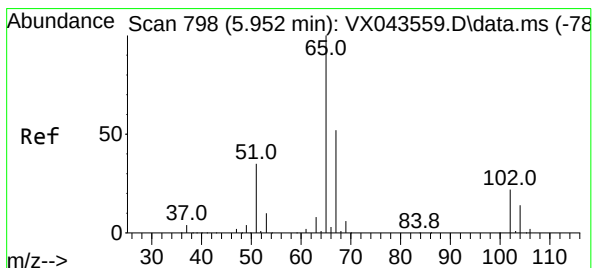
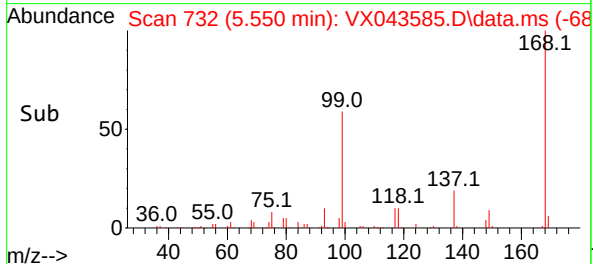
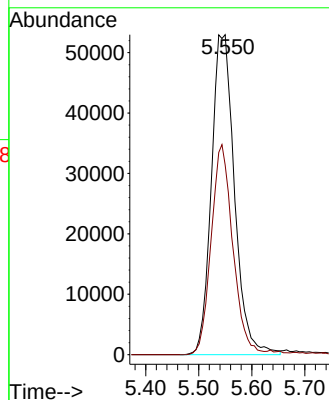
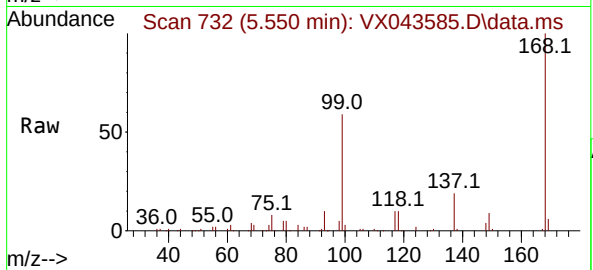




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

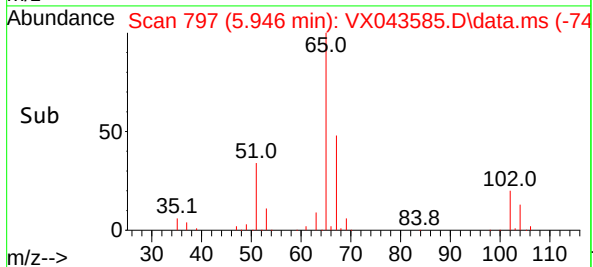
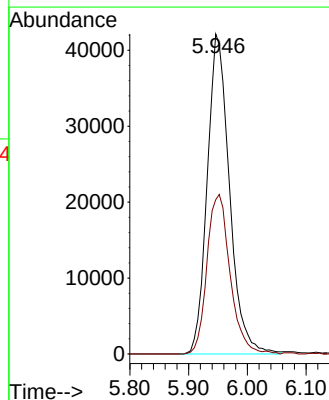
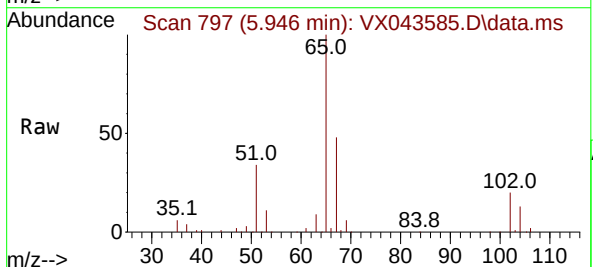
Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

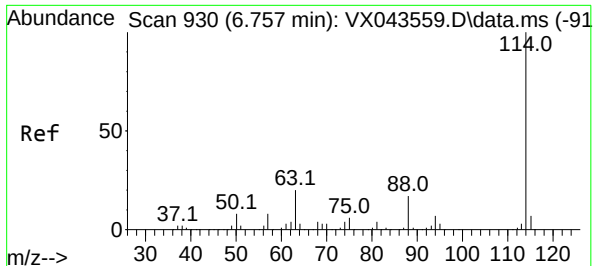
Tgt Ion:168 Resp: 160199
Ion Ratio Lower Upper
168 100
99 59.3 52.6 78.8



#33
1,2-Dichloroethane-d4
Concen: 43.426 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

Tgt Ion: 65 Resp: 110928
Ion Ratio Lower Upper
65 100
67 51.9 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX043585.D

Acq: 29 Oct 2024 10:31

Instrument :

MSVOA_X

ClientSampleId :

VX1029WBL01

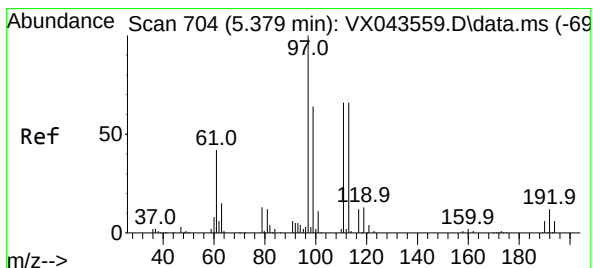
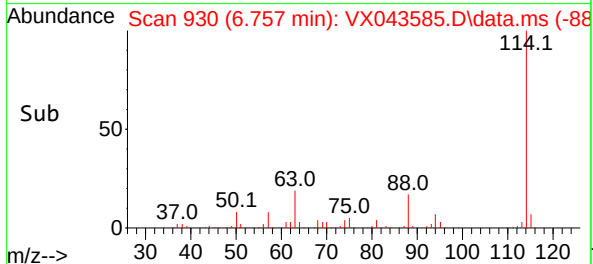
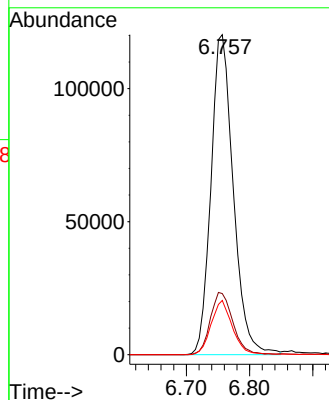
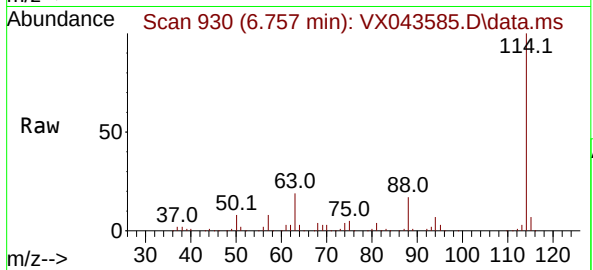
Tgt Ion:114 Resp: 295395

Ion Ratio Lower Upper

114 100

63 19.1 0.0 41.2

88 17.0 0.0 34.0



#35

Dibromofluoromethane

Concen: 45.457 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX043585.D

Acq: 29 Oct 2024 10:31

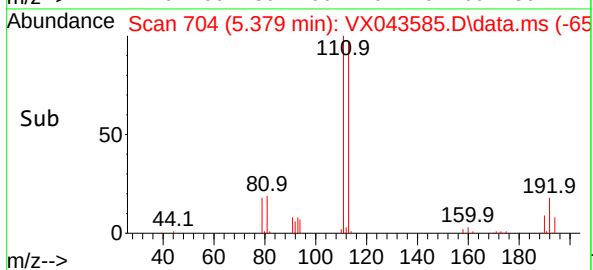
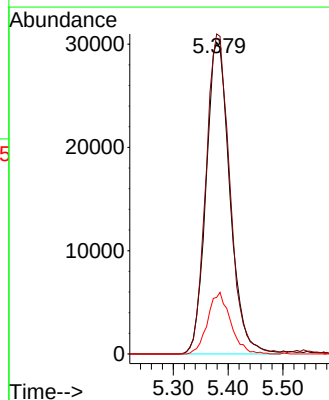
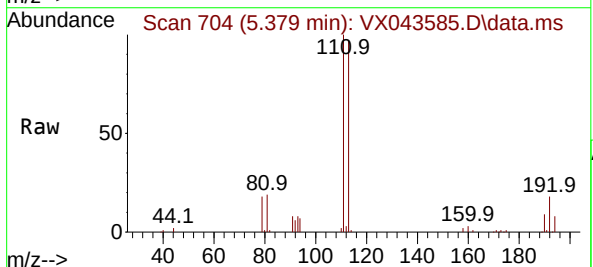
Tgt Ion:113 Resp: 91054

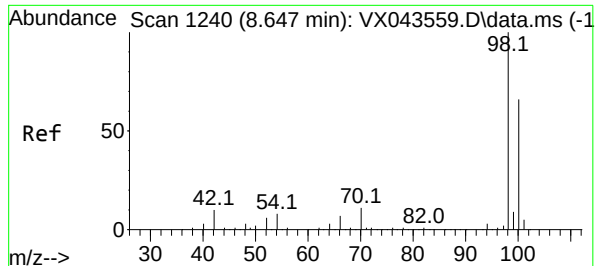
Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

192 19.0 14.1 21.1





#50

Toluene-d8

Concen: 50.493 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX043585.D

Acq: 29 Oct 2024 10:31

Instrument :

MSVOA_X

ClientSampleId :

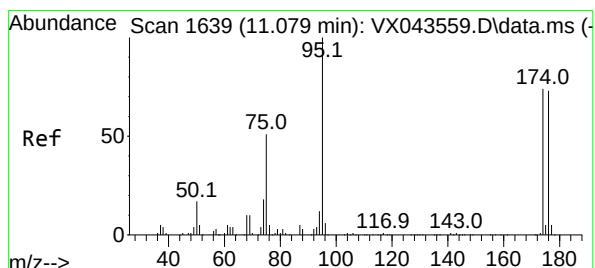
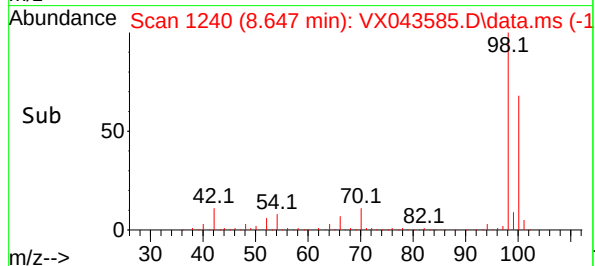
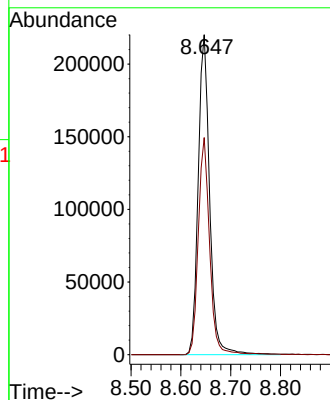
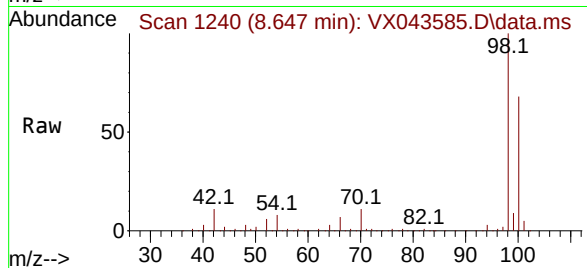
VX1029WBL01

Tgt Ion: 98 Resp: 350111

Ion Ratio Lower Upper

98 100

100 67.0 53.4 80.2



#62

4-Bromofluorobenzene

Concen: 50.575 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX043585.D

Acq: 29 Oct 2024 10:31

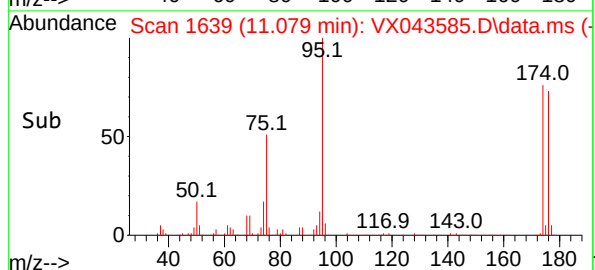
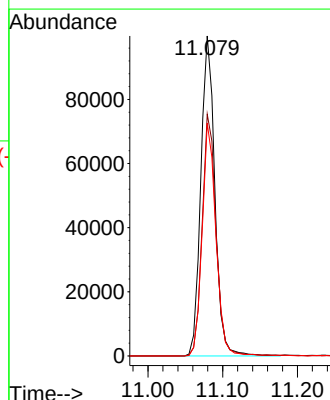
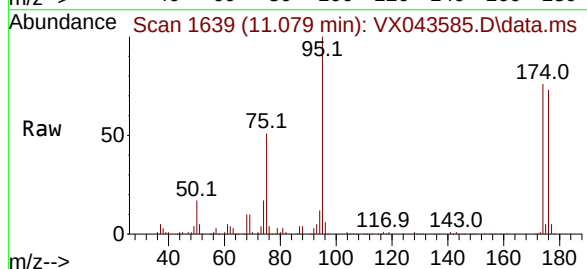
Tgt Ion: 95 Resp: 129946

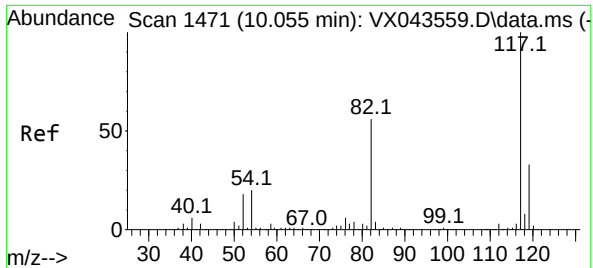
Ion Ratio Lower Upper

95 100

174 74.8 0.0 146.6

176 71.3 0.0 139.6

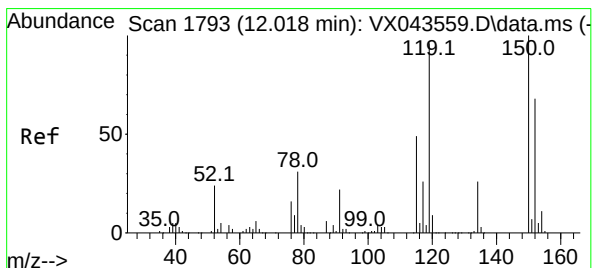
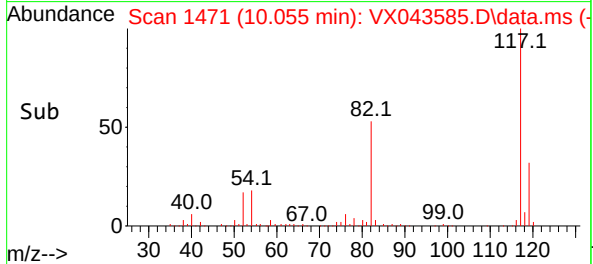
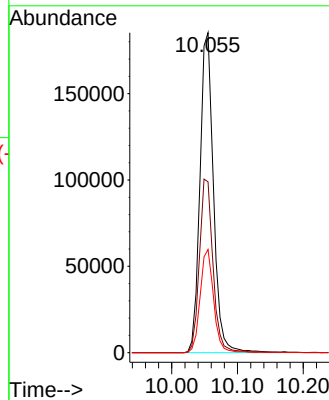
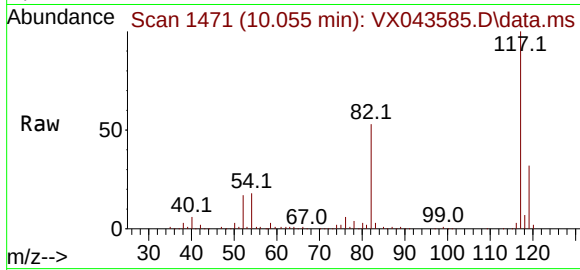




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

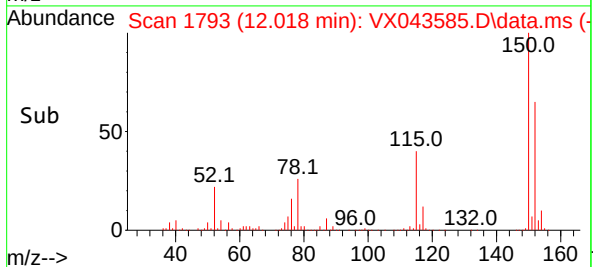
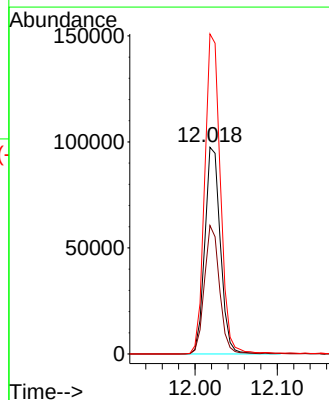
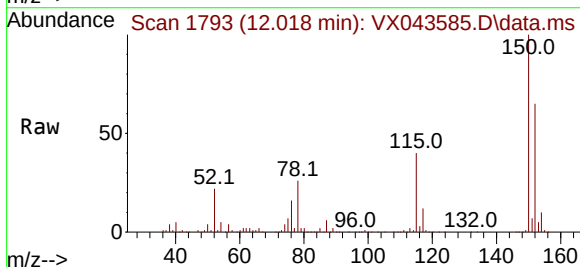
Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Tgt Ion:117 Resp: 265502
Ion Ratio Lower Upper
117 100
82 53.4 42.1 63.1
119 32.3 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX043585.D
Acq: 29 Oct 2024 10:31

Tgt Ion:152 Resp: 128354
Ion Ratio Lower Upper
152 100
115 60.1 42.9 128.7
150 156.4 0.0 343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043585.D
Acq On : 29 Oct 2024 10:31
Operator : JC/MD
Sample : VX1029WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M

Title : SW846 8260

Signal : TIC: VX043585.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.240	22	25	33	rBV2	5820	10354	1.13%	0.210%
2	1.636	69	90	91	rBV2	13385	60832	6.63%	1.236%
3	2.941	296	304	311	rBV	9049	21276	2.32%	0.432%
4	5.379	692	704	720	rBV3	98873	298272	32.51%	6.061%
5	5.544	720	731	748	rBV2	163521	477089	52.00%	9.695%
6	5.946	787	797	815	rBV	113015	307419	33.51%	6.247%
7	6.757	921	930	945	rBV	273644	673105	73.37%	13.678%
8	8.647	1233	1240	1255	rBV	573649	917416	100.00%	18.643%
9	10.055	1465	1471	1487	rBV	540530	792585	86.39%	16.106%
10	11.079	1634	1639	1654	rBV	466858	602291	65.65%	12.239%
11	12.018	1788	1793	1803	rBV	589573	760401	82.89%	15.452%

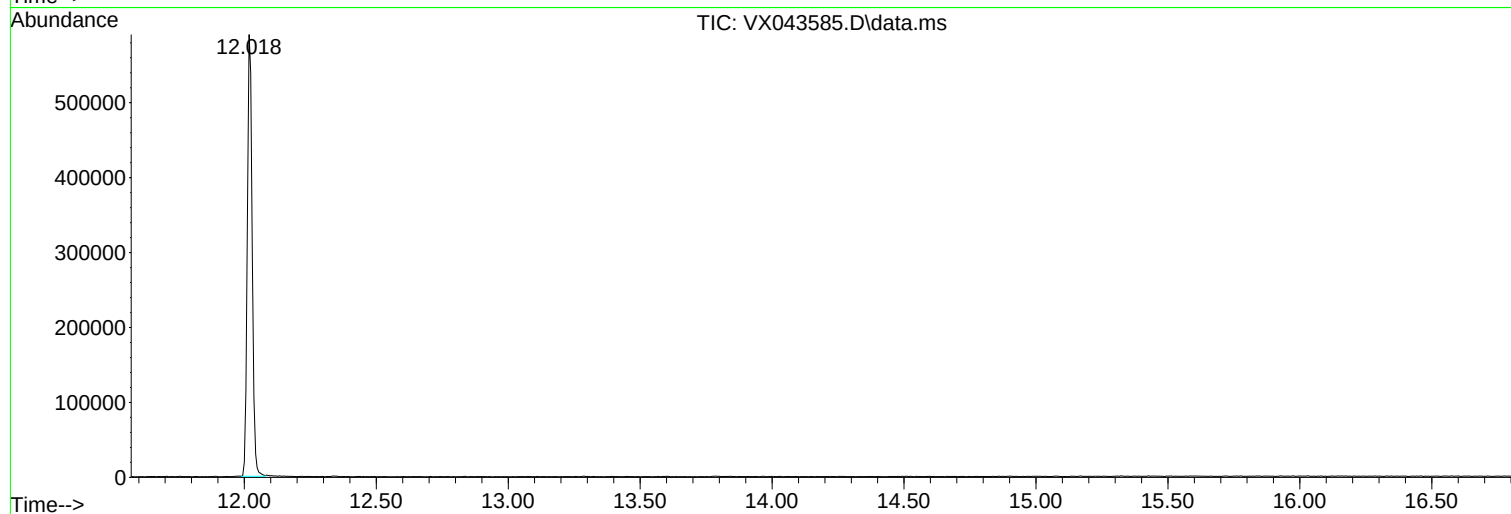
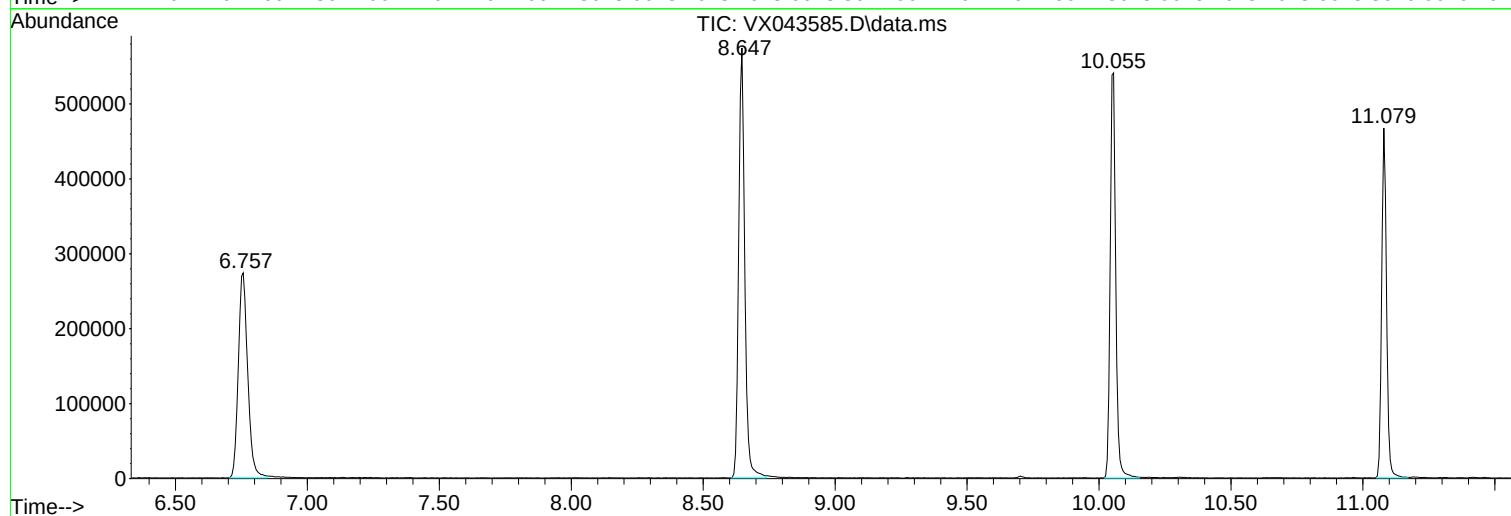
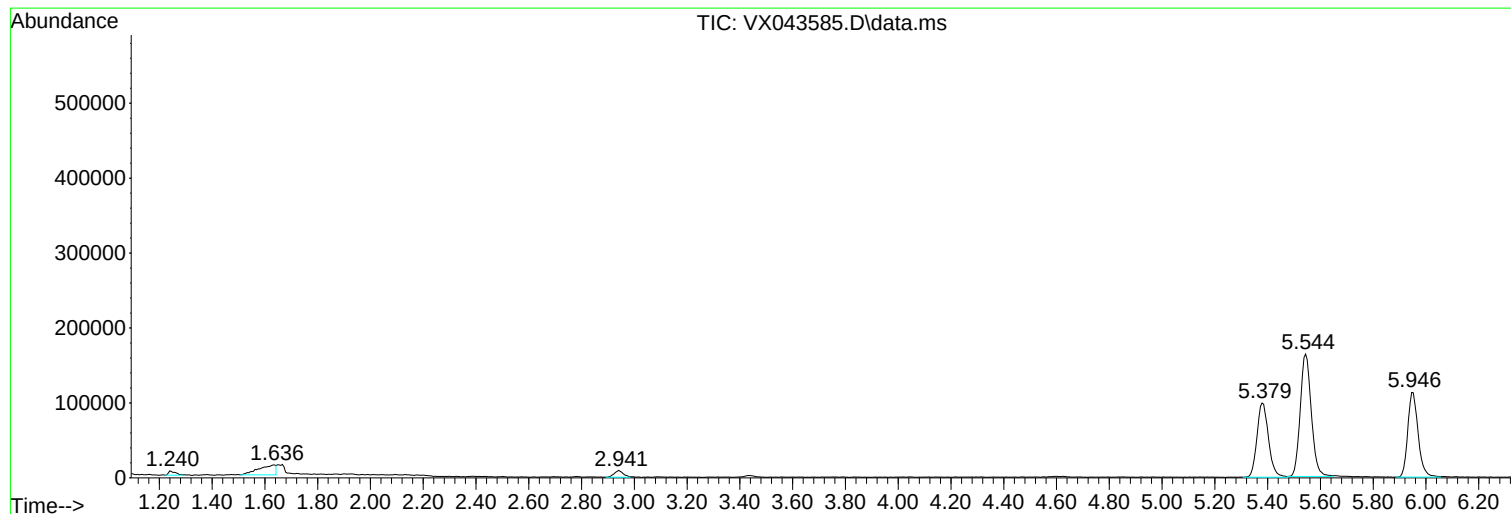
Sum of corrected areas: 4921040

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043585.D
Acq On : 29 Oct 2024 10:31
Operator : JC/MD
Sample : VX1029WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043585.D
Acq On : 29 Oct 2024 10:31
Operator : JC/MD
Sample : VX1029WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.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_X\Data\VX102924\
Data File : VX043585.D
Acq On : 29 Oct 2024 10:31
Operator : JC/MD
Sample : VX1029WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBL01	SDG No.:	P4578
Lab Sample ID:	VY1028SBL01	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
VY020030.D	1		10/28/24 09:58	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBL01	SDG No.:	P4578
Lab Sample ID:	VY1028SBL01	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
VY020030.D	1		10/28/24 09:58	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	50.1		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.5		70 (29) - 130 (146)	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	208000	7.719			
540-36-3	1,4-Difluorobenzene	438000	8.621			
3114-55-4	Chlorobenzene-d5	385000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	125000	13.352			



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

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1028SBL01		SDG No.:	P4578
Lab Sample ID:	VY1028SBL01		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
VY020030.D	1		10/28/24 09:58	VY102824

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\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Quant Time: Oct 29 01:53:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.719	168	207569	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.621	114	438255	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	384846	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	125121	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	145762	57.032	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	114.060%
35) Dibromofluoromethane	7.640	113	143476	49.611	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.220%
50) Toluene-d8	10.115	98	534715	50.068	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.140%
62) 4-Bromofluorobenzene	12.407	95	152249	39.454	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	78.900%

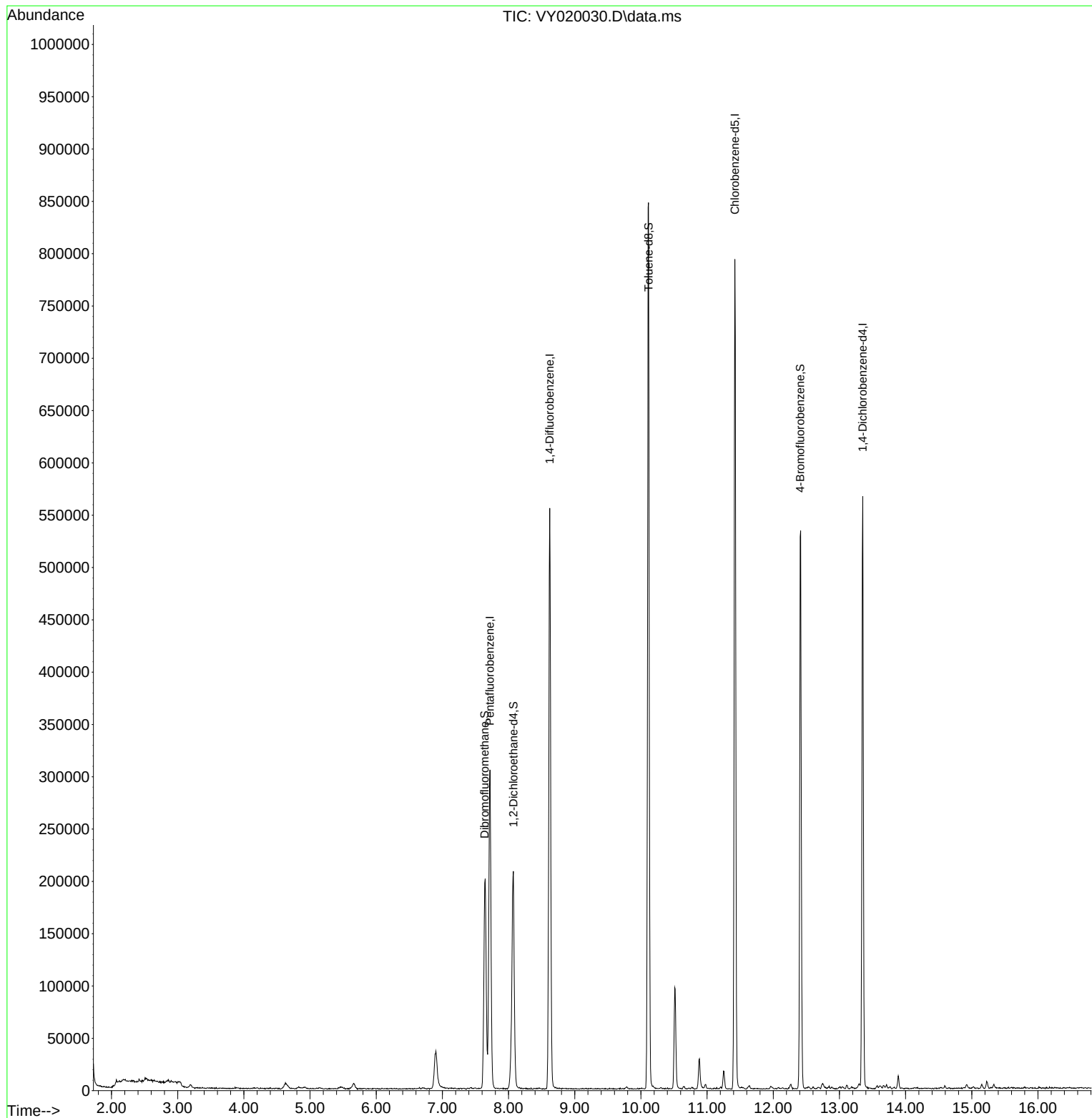
Target Compounds	Qvalue

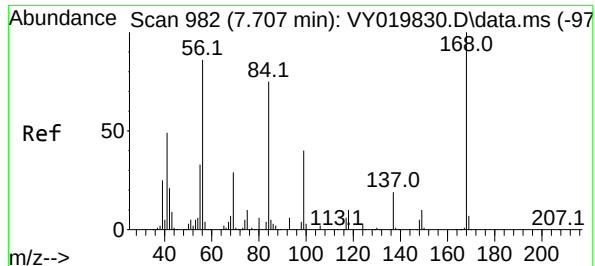
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Quant Time: Oct 29 01:53:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

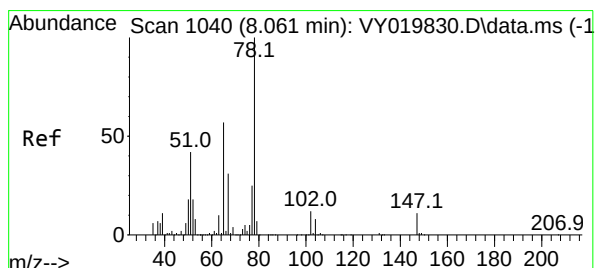
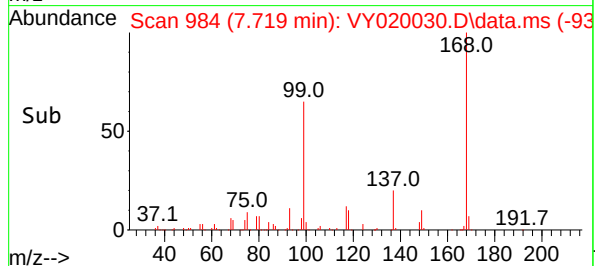
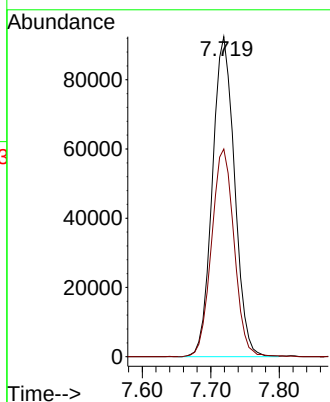
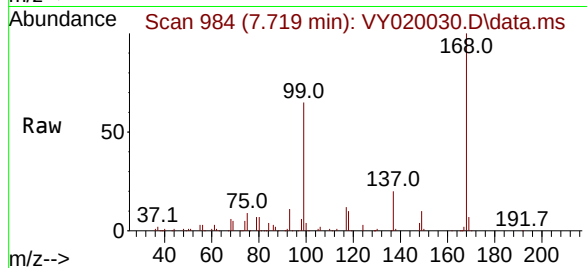




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 982
Delta R.T. 0.012 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

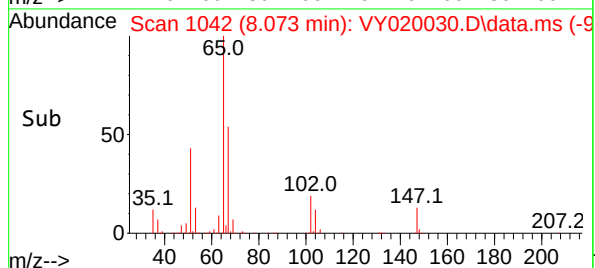
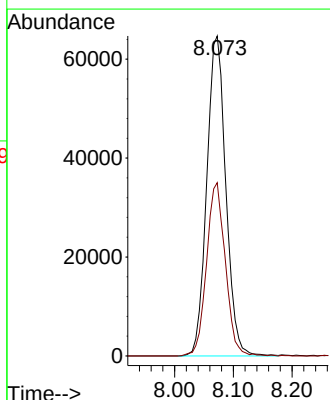
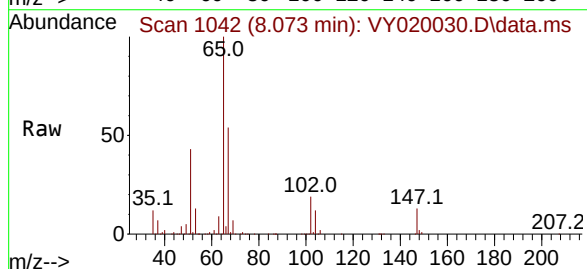
Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

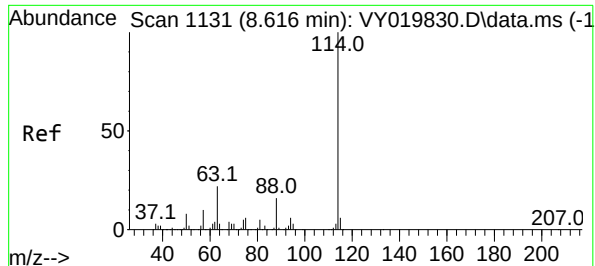
Tgt Ion:168 Resp: 207569
Ion Ratio Lower Upper
168 100
99 64.9 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 57.032 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

Tgt Ion: 65 Resp: 145762
Ion Ratio Lower Upper
65 100
67 53.3 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.621 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY020030.D

Acq: 28 Oct 2024 09:58

Instrument :

MSVOA_Y

ClientSampleId :

VY1028SBL01

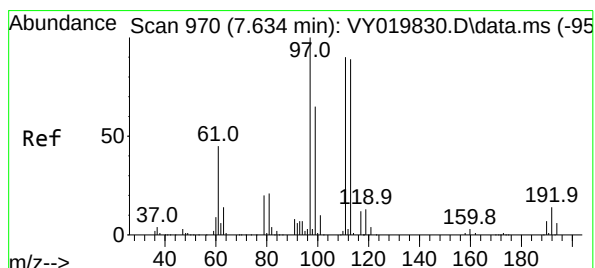
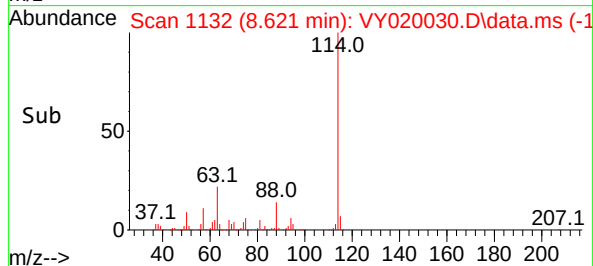
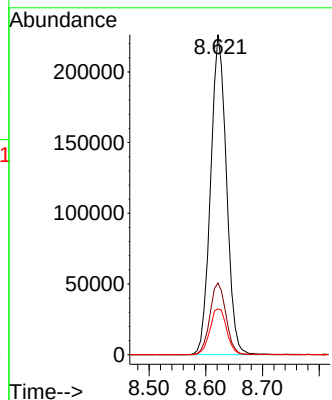
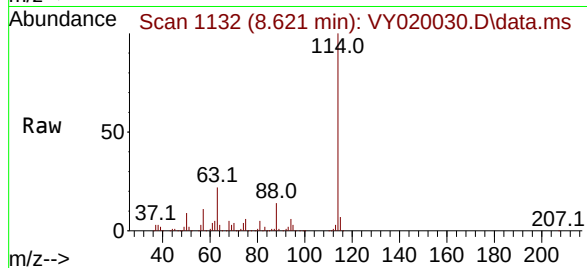
Tgt Ion:114 Resp: 438255

Ion Ratio Lower Upper

114 100

63 22.4 0.0 35.0

88 14.3 0.0 27.2



#35

Dibromofluoromethane

Concen: 49.611 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY020030.D

Acq: 28 Oct 2024 09:58

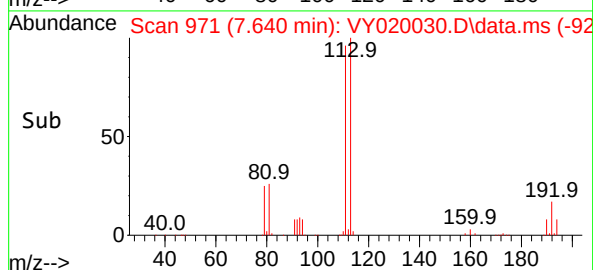
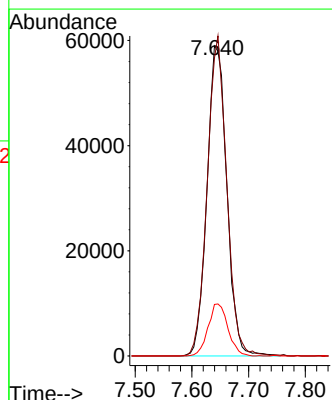
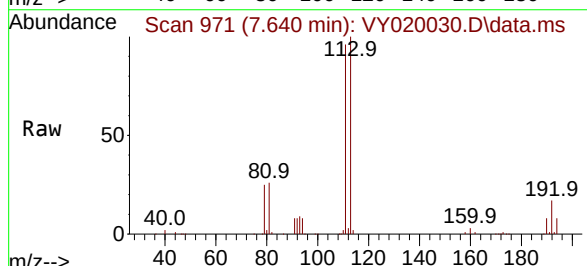
Tgt Ion:113 Resp: 143476

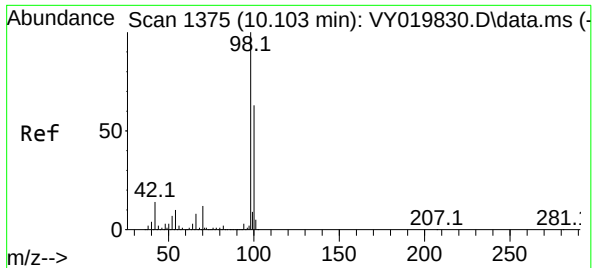
Ion Ratio Lower Upper

113 100

111 101.1 82.2 123.4

192 16.8 15.9 23.9

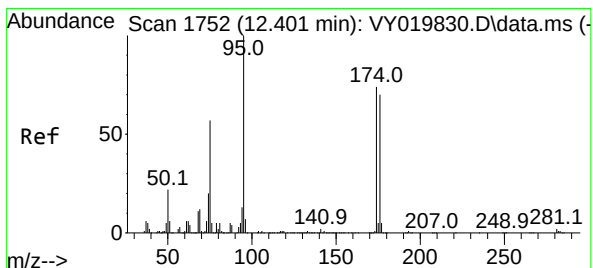
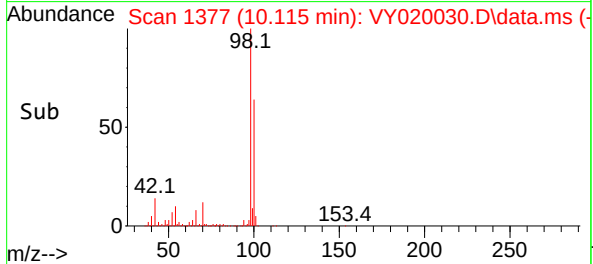
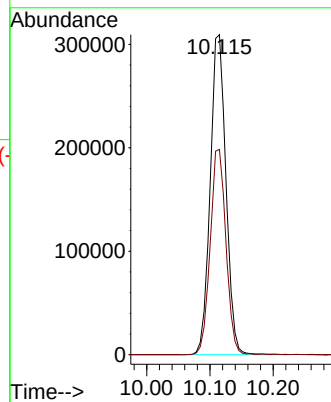
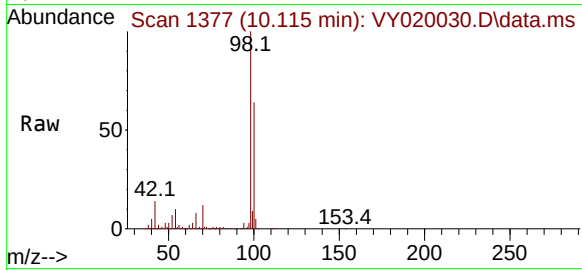




#50
Toluene-d8
Concen: 50.068 ug/l
RT: 10.115 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

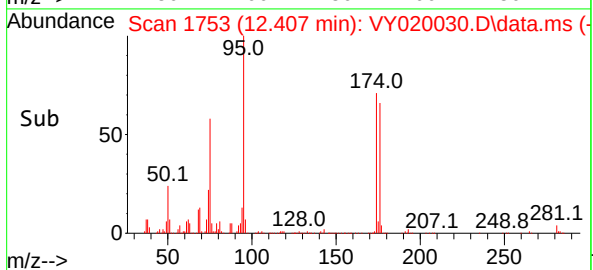
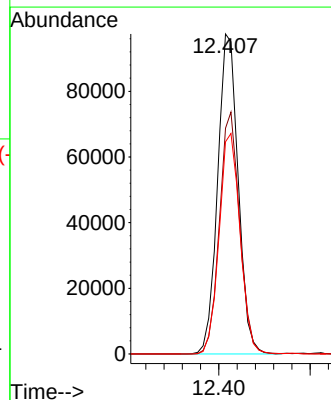
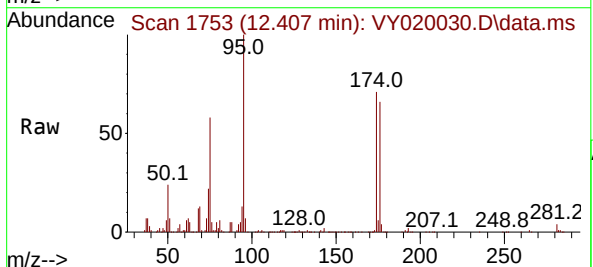
Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

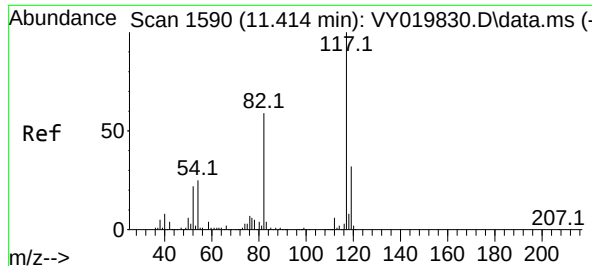
Tgt Ion: 98 Resp: 534715
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 39.454 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY020030.D
Acq: 28 Oct 2024 09:58

Tgt Ion: 95 Resp: 152249
Ion Ratio Lower Upper
95 100
174 74.3 0.0 175.6
176 70.1 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY020030.D

Acq: 28 Oct 2024 09:58

Instrument :

MSVOA_Y

ClientSampleId :

VY1028SBL01

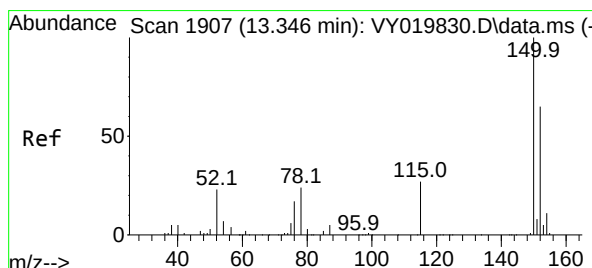
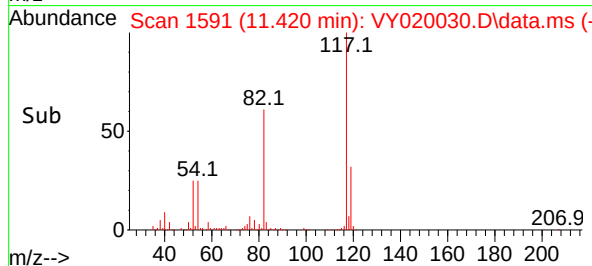
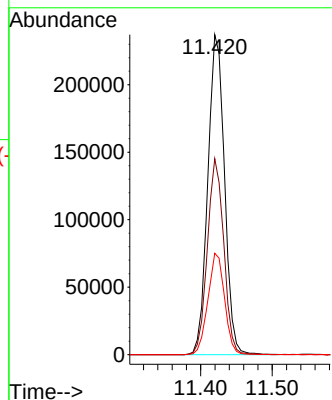
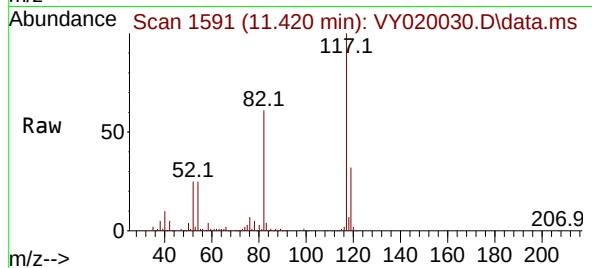
Tgt Ion:117 Resp: 384846

Ion Ratio Lower Upper

117 100

82 61.3 42.4 63.6

119 31.7 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY020030.D

Acq: 28 Oct 2024 09:58

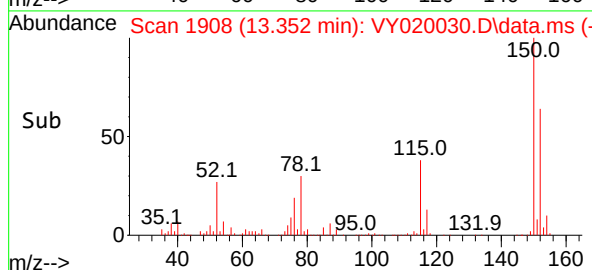
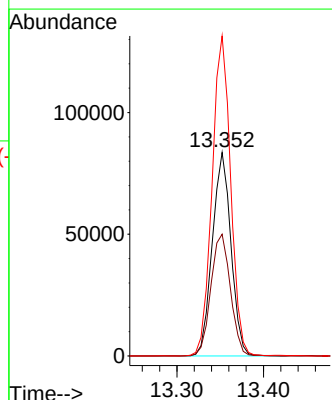
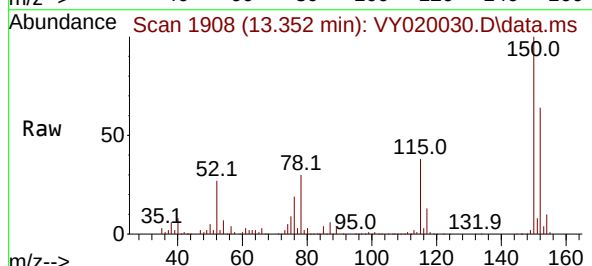
Tgt Ion:152 Resp: 125121

Ion Ratio Lower Upper

152 100

115 62.6 28.2 84.7

150 156.2 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M

Title : SW846 8260

Signal : TIC: VY020030.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.902	839	850	864	rBV2	35515	113675	7.68%	1.472%
2	7.646	959	972	978	rBV	200596	491847	33.22%	6.368%
3	7.719	978	984	997	rVB	304675	685821	46.32%	8.880%
4	8.073	1027	1042	1056	rBV2	208197	538994	36.41%	6.979%
5	8.621	1124	1132	1146	rBV	554936	1087273	73.44%	14.078%
6	10.115	1369	1377	1387	rBV	846519	1480520	100.00%	19.169%
7	10.511	1436	1442	1452	rBV	96019	178229	12.04%	2.308%
8	10.883	1497	1503	1512	rBV2	28409	53862	3.64%	0.697%
9	11.249	1558	1563	1571	rVB2	16990	30086	2.03%	0.390%
10	11.420	1584	1591	1604	rBV	793153	1290157	87.14%	16.704%
11	12.413	1744	1754	1763	rBV2	533471	894783	60.44%	11.585%
12	13.352	1901	1908	1917	rVB	564852	859816	58.08%	11.133%
13	13.889	1990	1996	2001	rVB	12041	18393	1.24%	0.238%

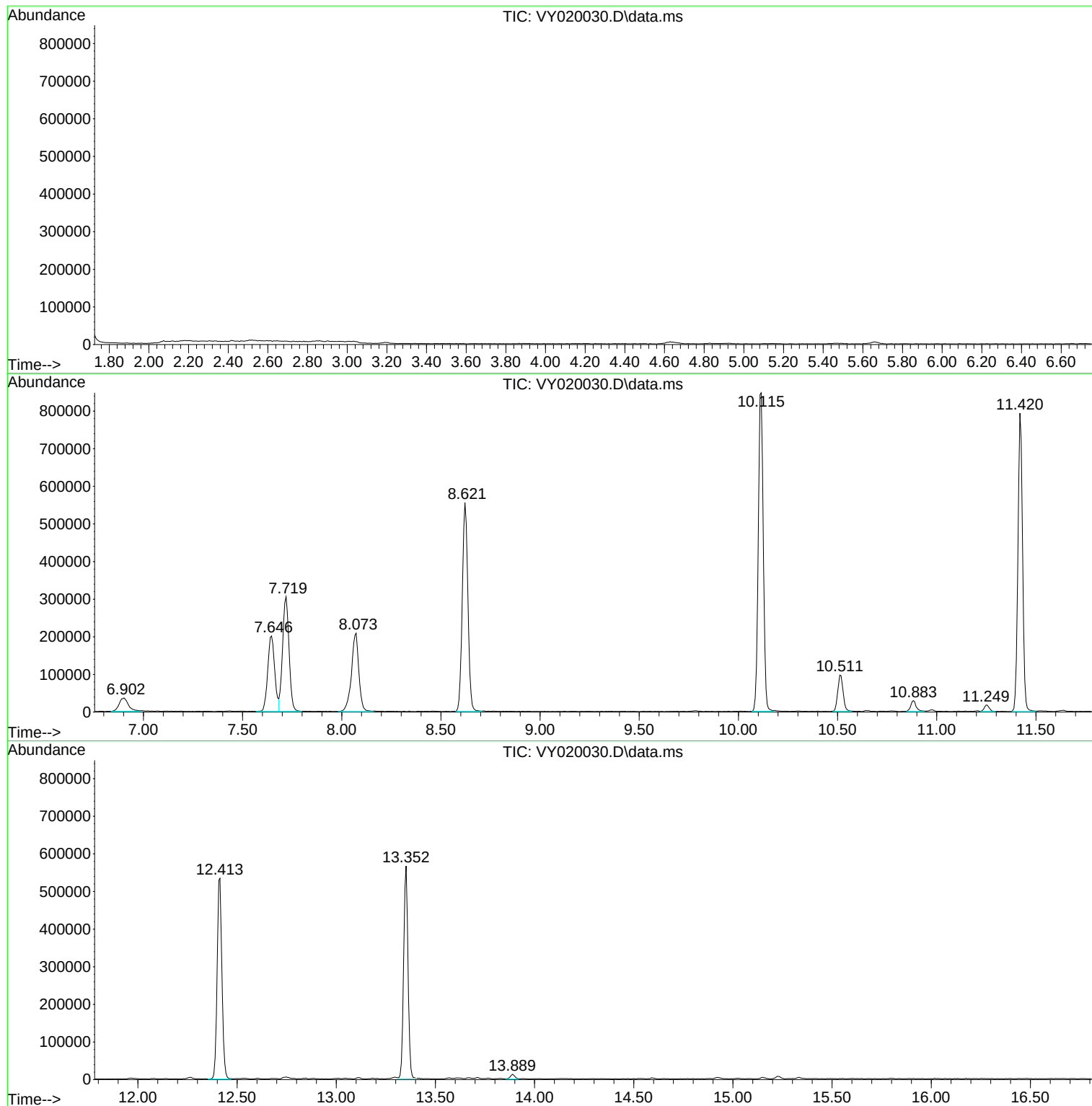
Sum of corrected areas: 7723456

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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\VY102824\
Data File : VY020030.D
Acq On : 28 Oct 2024 09:58
Operator : SY/MD
Sample : VY1028SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1029SBL01	SDG No.:	P4578
Lab Sample ID:	VY1029SBL01	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
VY020050.D	1		10/29/24 10:01	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1029SBL01	SDG No.:	P4578
Lab Sample ID:	VY1029SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020050.D	1		10/29/24 10:01	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.3		70 (50) - 130 (163)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (58) - 130 (134)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.5		70 (29) - 130 (146)	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	196000	7.713			
540-36-3	1,4-Difluorobenzene	412000	8.622			
3114-55-4	Chlorobenzene-d5	366000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1029SBL01		SDG No.:	P4578
Lab Sample ID:	VY1029SBL01		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
VY020050.D	1		10/29/24 10:01	VY102924

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\VY102924\
 Data File : VY020050.D
 Acq On : 29 Oct 2024 10:01
 Operator : SY/MD
 Sample : VY1029SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1029SBL01

Quant Time: Oct 30 01:19:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	196117	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.622	114	412090	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	365725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	118867	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	133469	55.272	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	110.540%
35) Dibromofluoromethane	7.640	113	134846	49.588	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.180%
50) Toluene-d8	10.109	98	508625	50.649	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	101.300%
62) 4-Bromofluorobenzene	12.407	95	143274	39.485	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	78.980%

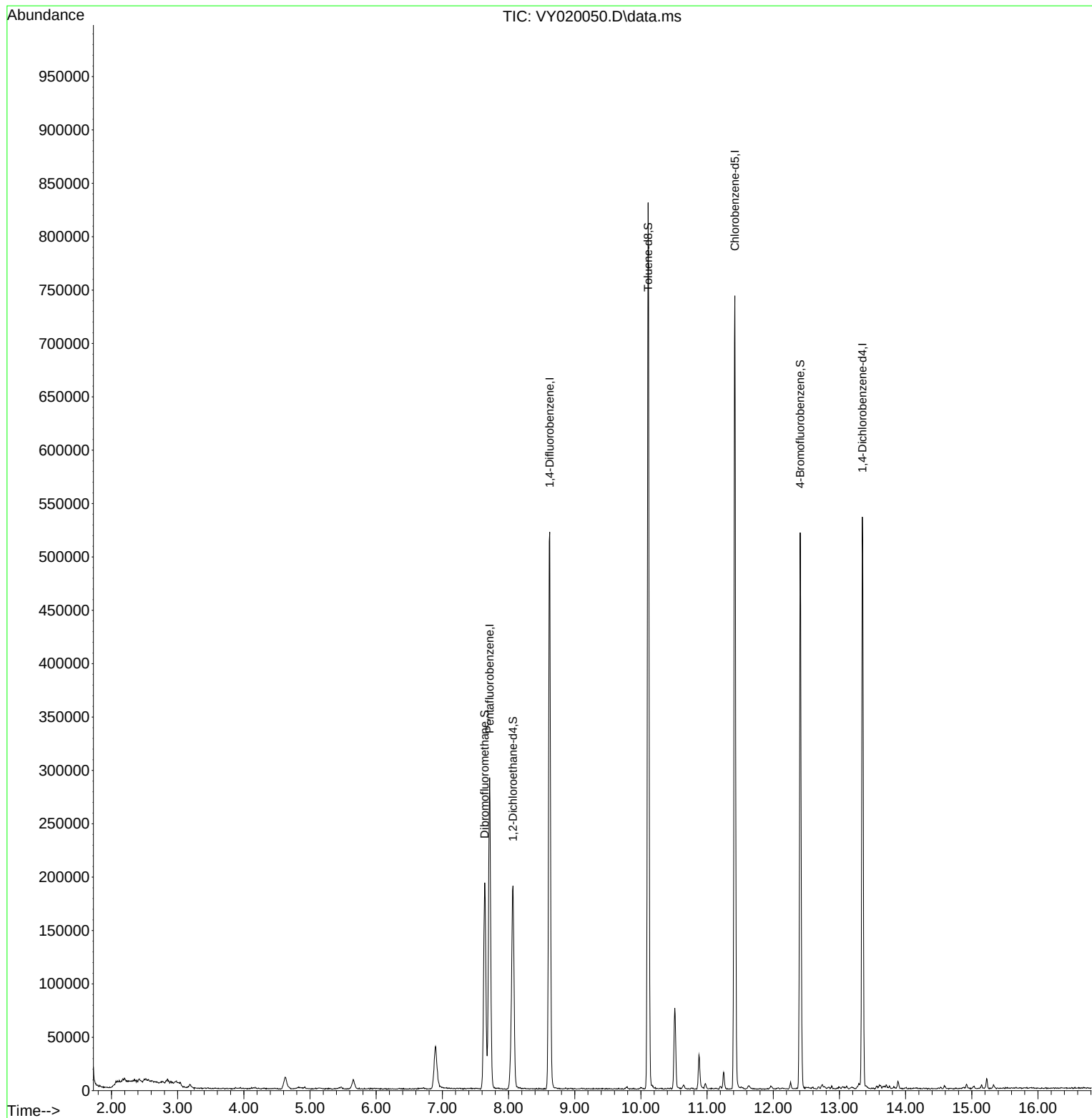
Target Compounds	Qvalue

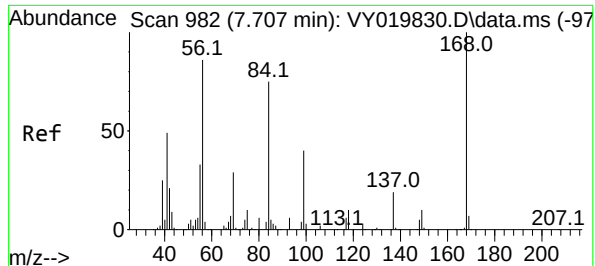
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020050.D
Acq On : 29 Oct 2024 10:01
Operator : SY/MD
Sample : VY1029SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Quant Time: Oct 30 01:19:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

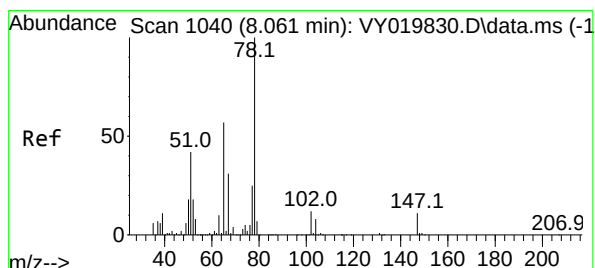
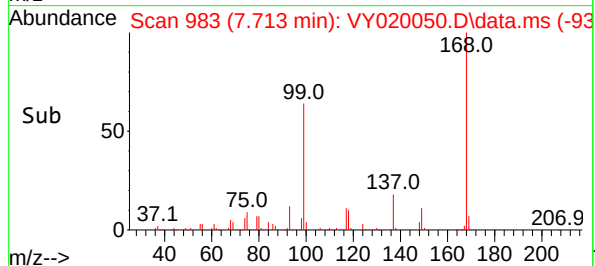
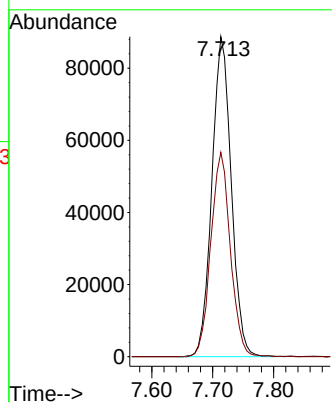
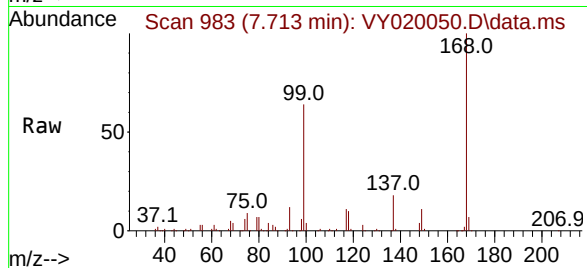




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

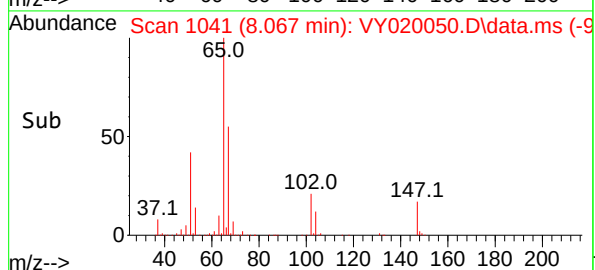
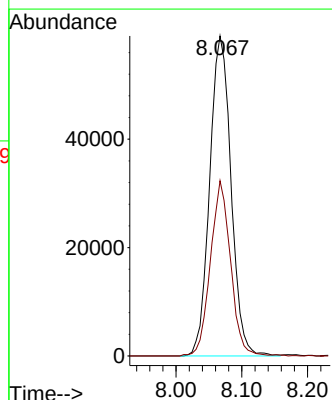
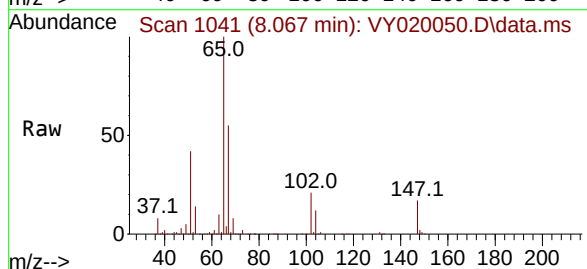
Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

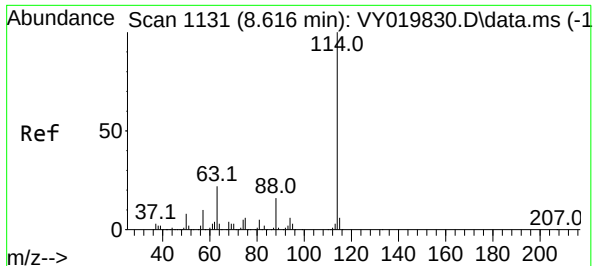
Tgt Ion:168 Resp: 196117
Ion Ratio Lower Upper
168 100
99 63.9 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 55.272 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

Tgt Ion: 65 Resp: 133469
Ion Ratio Lower Upper
65 100
67 51.5 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY020050.D

Acq: 29 Oct 2024 10:01

Instrument :

MSVOA_Y

ClientSampleId :

VY1029SBL01

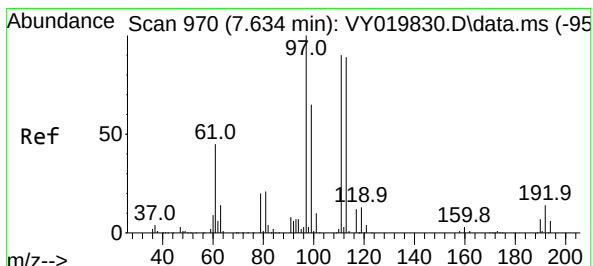
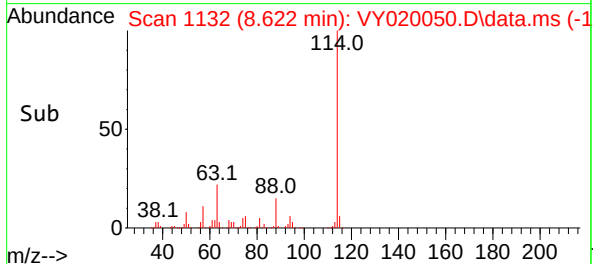
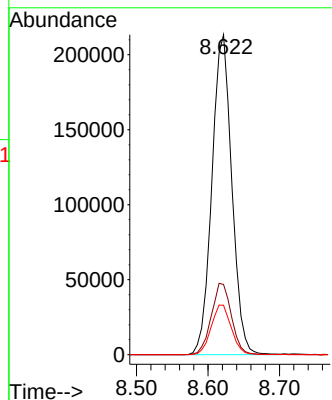
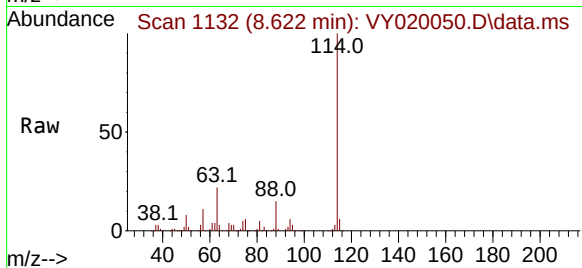
Tgt Ion:114 Resp: 412090

Ion Ratio Lower Upper

114 100

63 21.9 0.0 35.0

88 15.4 0.0 27.2



#35

Dibromofluoromethane

Concen: 49.588 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY020050.D

Acq: 29 Oct 2024 10:01

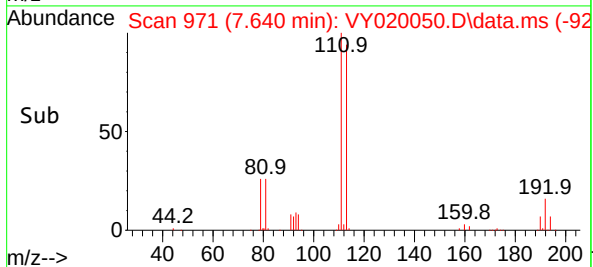
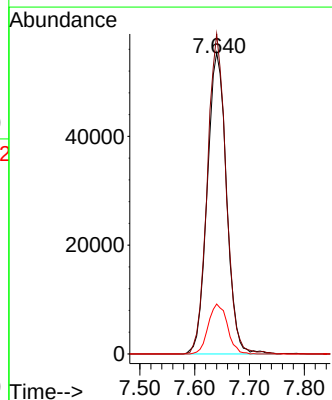
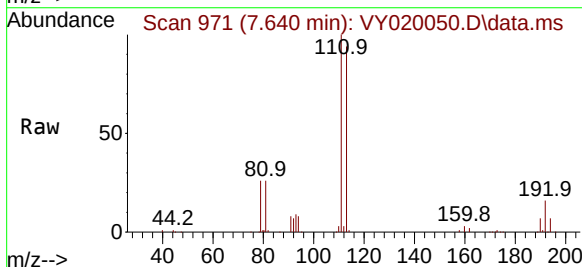
Tgt Ion:113 Resp: 134846

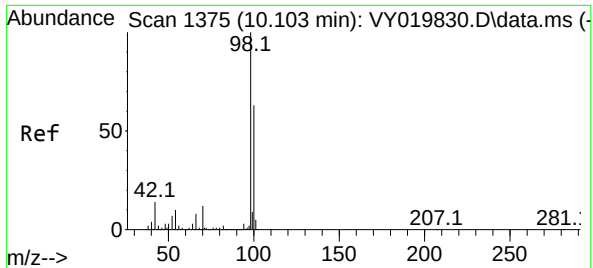
Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.4

192 16.4 15.9 23.9





#50

Toluene-d8

Concen: 50.649 ug/l

RT: 10.109 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY020050.D

Acq: 29 Oct 2024 10:01

Instrument :

MSVOA_Y

ClientSampleId :

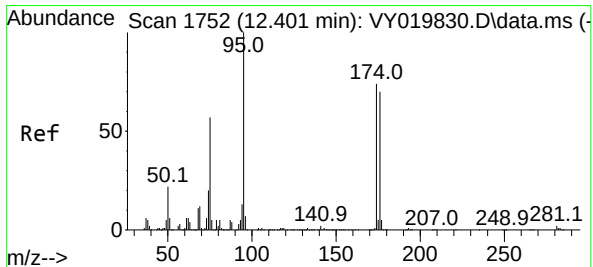
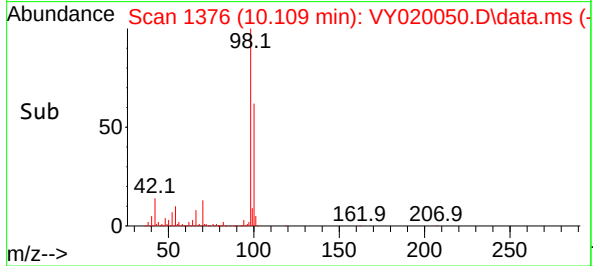
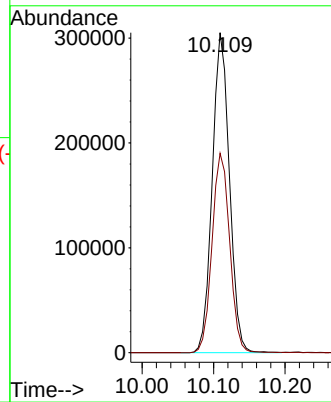
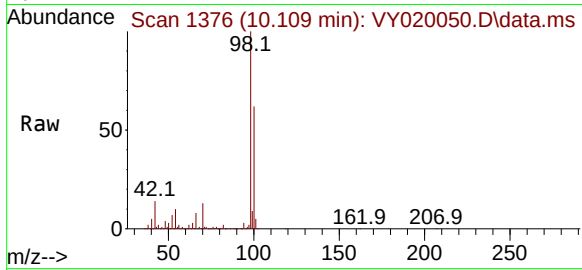
VY1029SBL01

Tgt Ion: 98 Resp: 508625

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 39.485 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY020050.D

Acq: 29 Oct 2024 10:01

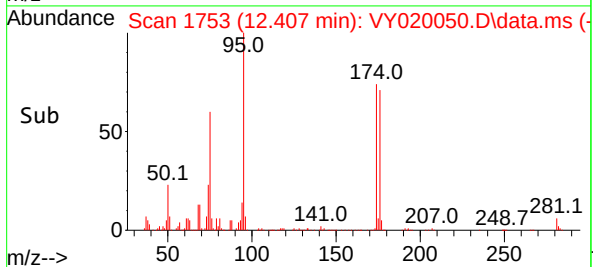
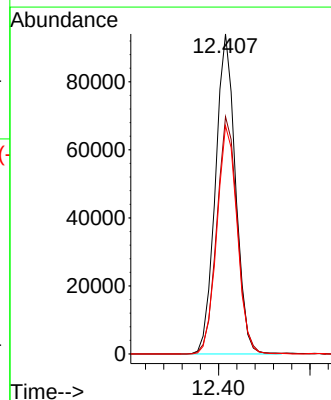
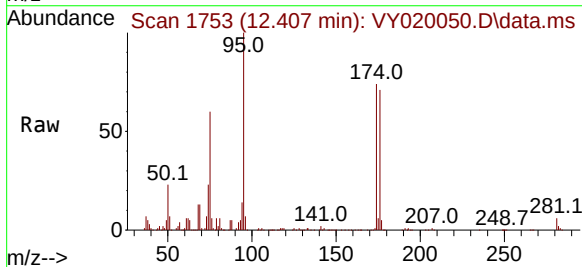
Tgt Ion: 95 Resp: 143274

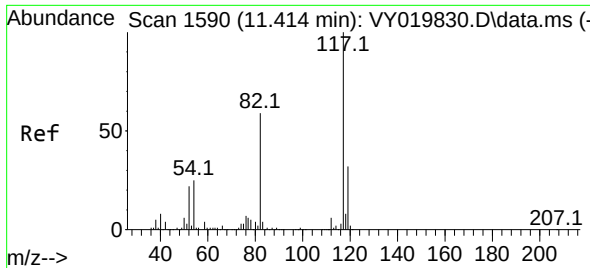
Ion Ratio Lower Upper

95 100

174 75.9 0.0 175.6

176 72.4 0.0 171.4

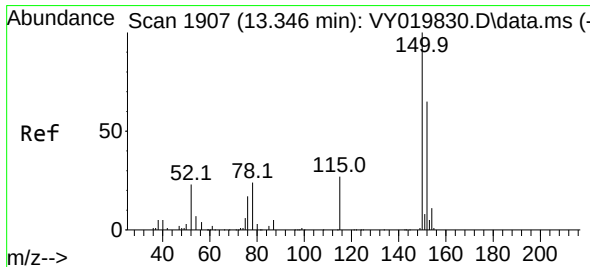
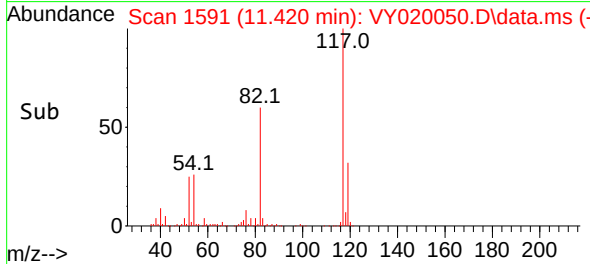
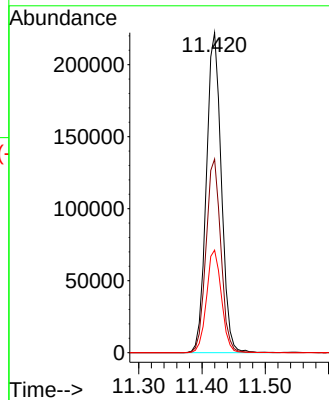
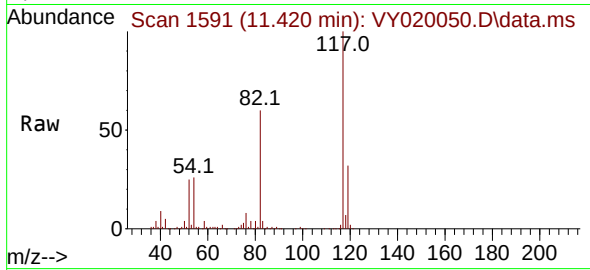




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

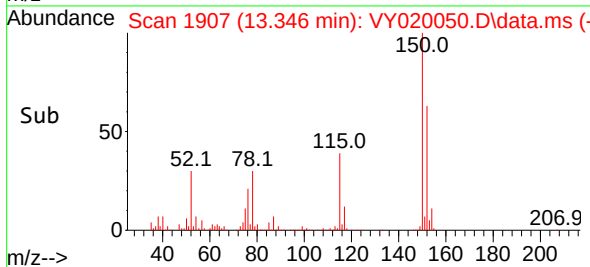
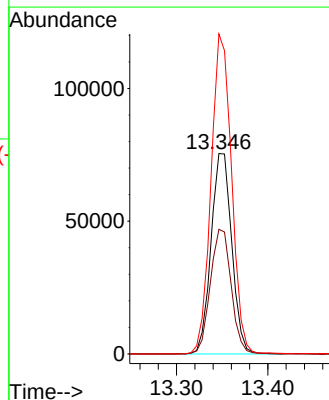
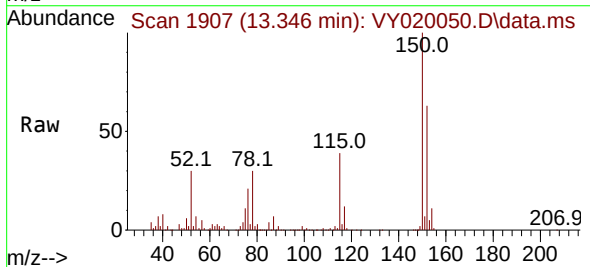
Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Tgt Ion:117 Resp: 365725
Ion Ratio Lower Upper
117 100
82 60.5 42.4 63.6
119 32.0 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020050.D
Acq: 29 Oct 2024 10:01

Tgt Ion:152 Resp: 118867
Ion Ratio Lower Upper
152 100
115 62.6 28.2 84.7
150 158.3 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020050.D
Acq On : 29 Oct 2024 10:01
Operator : SY/MD
Sample : VY1029SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M

Title : SW846 8260

Signal : TIC: VY020050.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	467	476	488	rBV3	10963	37151	2.64%	0.502%
2	5.653	633	645	656	rBV4	8884	26206	1.86%	0.354%
3	6.896	836	849	859	rBV	39784	127002	9.02%	1.717%
4	7.640	960	971	977	rBV	193487	465592	33.08%	6.296%
5	7.713	977	983	994	rVB	290875	650769	46.23%	8.800%
6	8.067	1028	1041	1051	rBV3	190159	503539	35.77%	6.809%
7	8.622	1123	1132	1145	rBV	521902	1033912	73.45%	13.981%
8	10.109	1368	1376	1385	rBV	830104	1407685	100.00%	19.035%
9	10.511	1434	1442	1454	rBV2	75997	144858	10.29%	1.959%
10	10.877	1496	1502	1512	rBV	31948	58416	4.15%	0.790%
11	11.249	1558	1563	1572	rVB3	15740	26303	1.87%	0.356%
12	11.420	1582	1591	1603	rBV	743130	1228749	87.29%	16.615%
13	12.407	1745	1753	1763	rBV2	520978	840669	59.72%	11.368%
14	13.346	1901	1907	1914	rVB	533404	828857	58.88%	11.208%
15	15.224	2209	2215	2221	rVB3	9743	15586	1.11%	0.211%

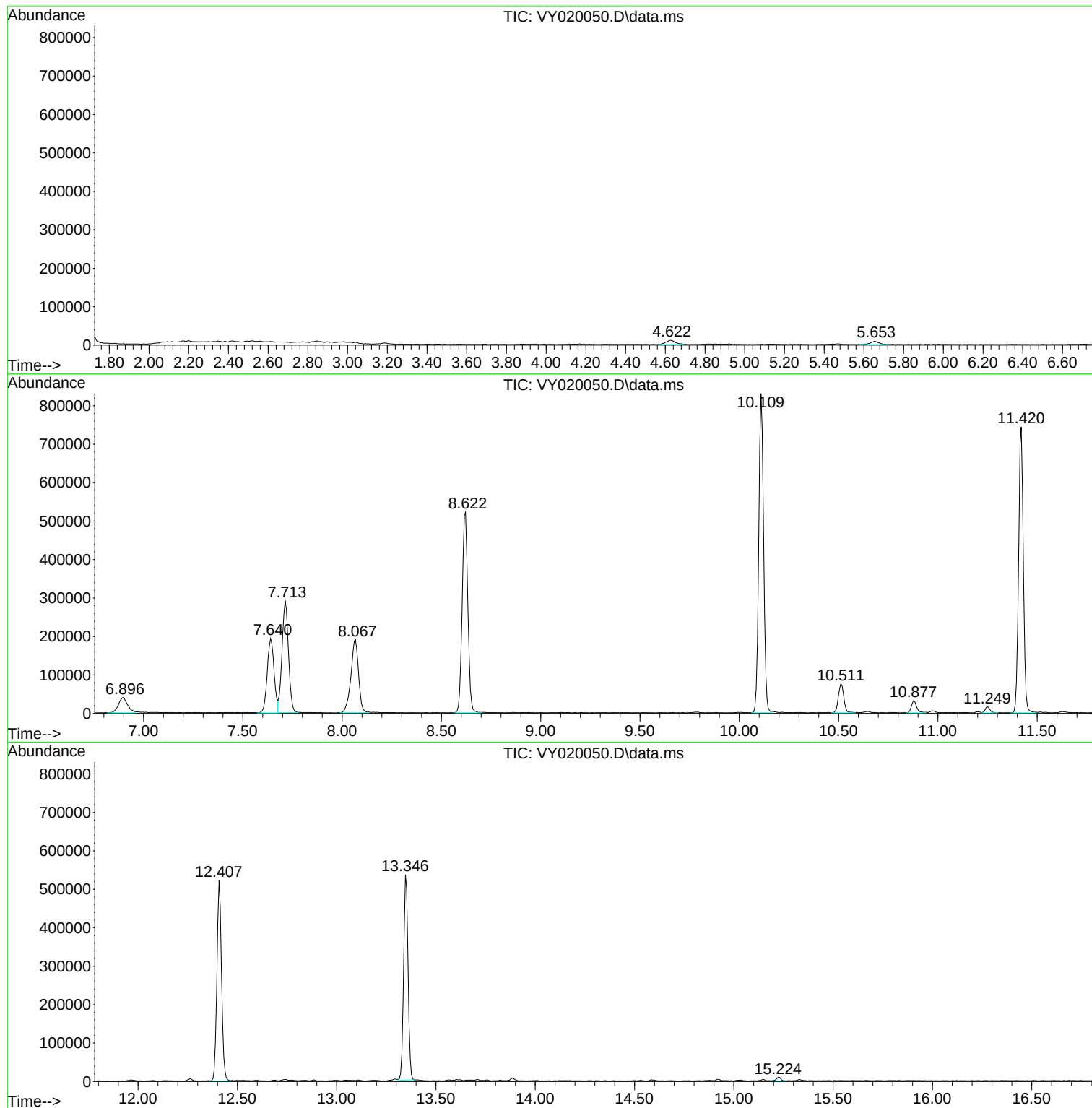
Sum of corrected areas: 7395294

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020050.D
Acq On : 29 Oct 2024 10:01
Operator : SY/MD
Sample : VY1029SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020050.D
Acq On : 29 Oct 2024 10:01
Operator : SY/MD
Sample : VY1029SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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\VY102924\
Data File : VY020050.D
Acq On : 29 Oct 2024 10:01
Operator : SY/MD
Sample : VY1029SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VX1029WBS01			SDG No.:	P4578
Lab Sample ID:	VX1029WBS01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043586.D	1		10/29/24 10:57	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.5		0.21	1.00	ug/L
74-87-3	Chloromethane	16.0		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.2		0.34	1.00	ug/L
74-83-9	Bromomethane	17.4		1.40	5.00	ug/L
75-00-3	Chloroethane	19.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.7		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.4		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.4		0.26	1.00	ug/L
67-64-1	Acetone	92.3		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.2		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	16.1		0.60	1.00	ug/L
75-09-2	Methylene Chloride	17.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	20.3		1.60	5.00	ug/L
78-93-3	2-Butanone	86.1		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.25	1.00	ug/L
74-97-5	Bromochloromethane	17.5		0.18	1.00	ug/L
67-66-3	Chloroform	18.1		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	21.3		0.19	1.00	ug/L
71-43-2	Benzene	18.9		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.6		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.2		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	18.3		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	90.2		0.75	5.00	ug/L
108-88-3	Toluene	19.9		0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBS01	SDG No.:	P4578
Lab Sample ID:	VX1029WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043586.D	1		10/29/24 10:57	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.7		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.5		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.8		0.21	1.00	ug/L
591-78-6	2-Hexanone	91.2		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	18.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.4		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	40.6		0.31	2.00	ug/L
95-47-6	o-Xylene	20.1		0.14	1.00	ug/L
100-42-5	Styrene	20.2		0.16	1.00	ug/L
75-25-2	Bromoform	17.8		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	20.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.5		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.7		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.3		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.3		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.5		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.2		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.9		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.1		70 (74) - 130 (125)	84%	SPK: 50
1868-53-7	Dibromofluoromethane	46.6		70 (75) - 130 (124)	93%	SPK: 50
2037-26-5	Toluene-d8	48.3		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	202000	5.544			
540-36-3	1,4-Difluorobenzene	352000	6.757			
3114-55-4	Chlorobenzene-d5	295000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	143000	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VX1029WBS01			SDG No.:	P4578
Lab Sample ID:	VX1029WBS01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043586.D	1		10/29/24 10:57	VX102924

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_X\Data\VX102924\
 Data File : VX043586.D
 Acq On : 29 Oct 2024 10:57
 Operator : JC/MD
 Sample : VX1029WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1029WBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
 Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:26:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	202431	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	352202	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	294857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	142936	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	135908	42.105	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	84.220%
35) Dibromofluoromethane	5.379	113	111394	46.642	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.280%
50) Toluene-d8	8.647	98	399169	48.283	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.560%
62) 4-Bromofluorobenzene	11.079	95	144111	47.042	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.080%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	40027	18.489	ug/l	100
3) Chloromethane	1.294	50	44310	16.012	ug/l	92
4) Vinyl Chloride	1.374	62	46678	18.174	ug/l	99
5) Bromomethane	1.593	94	18192	17.375	ug/l	97
6) Chloroethane	1.660	64	17156m	18.960	ug/l	
7) Trichlorofluoromethane	1.861	101	64804	20.654	ug/l	98
8) Diethyl Ether	2.136	74	25896	17.863	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	45384	21.388	ug/l	99
10) Methyl Iodide	2.440	142	57476	18.748	ug/l	97
11) Tert butyl alcohol	3.007	59	56407m	93.626	ug/l	
12) 1,1-Dichloroethene	2.306	96	42035	19.385	ug/l	92
13) Acrolein	2.239	56	40906	86.821	ug/l	99
14) Allyl chloride	2.654	41	68347	18.223	ug/l	96
15) Acrylonitrile	3.068	53	115840	85.162	ug/l	99
16) Acetone	2.386	43	118332	92.319	ug/l	98
17) Carbon Disulfide	2.501	76	82388	18.170	ug/l	100
18) Methyl Acetate	2.703	43	60142	16.054	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	143107	17.354	ug/l	100
20) Methylene Chloride	2.782	84	47149	17.068	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	44262	19.321	ug/l	97
22) Diisopropyl ether	3.757	45	139725	18.024	ug/l	92
23) Vinyl Acetate	3.721	43	571697	89.264	ug/l	99
24) 1,1-Dichloroethane	3.605	63	79799	17.909	ug/l	98
25) 2-Butanone	4.556	43	160914	86.062	ug/l	99
26) 2,2-Dichloropropane	4.465	77	72610	19.908	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	53987	18.448	ug/l	99
28) Bromochloromethane	4.891	49	37071	17.489	ug/l	96
29) Tetrahydrofuran	5.007	42	100228	82.487	ug/l	98
30) Chloroform	5.086	83	84330	18.055	ug/l	99
31) Cyclohexane	5.458	56	69310	20.338	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	76151	19.420	ug/l	99
36) 1,1-Dichloropropene	5.684	75	56285	19.875	ug/l	98
37) Ethyl Acetate	4.714	43	60171	17.501	ug/l	98
38) Carbon Tetrachloride	5.666	117	62906	20.104	ug/l	97
39) Methylcyclohexane	7.373	83	75030	21.340	ug/l	99
40) Benzene	6.031	78	178716	18.917	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
 Data File : VX043586.D
 Acq On : 29 Oct 2024 10:57
 Operator : JC/MD
 Sample : VX1029WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1029WBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
 Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:26:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	33159	18.374	ug/l	97
42) 1,2-Dichloroethane	6.080	62	62263	18.332	ug/l	99
43) Isopropyl Acetate	6.336	43	100112	17.607	ug/l	100
44) Trichloroethene	7.123	130	46116	19.649	ug/l	95
45) 1,2-Dichloropropane	7.427	63	42277	18.174	ug/l	100
46) Dibromomethane	7.580	93	32080	17.910	ug/l	96
47) Bromodichloromethane	7.818	83	57532	18.310	ug/l	99
48) Methyl methacrylate	7.696	41	48326	17.927	ug/l	98
49) 1,4-Dioxane	7.671	88	23130	417.634	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	312558	90.192	ug/l	99
52) Toluene	8.714	92	113851	19.871	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	59568	17.650	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	70181	19.517	ug/l	96
55) 1,1,2-Trichloroethane	9.153	97	44829	18.797	ug/l	93
56) Ethyl methacrylate	9.116	69	69497	17.934	ug/l	98
57) 1,3-Dichloropropane	9.305	76	74400	18.757	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	172110	91.703	ug/l	99
59) 2-Hexanone	9.433	43	240151	91.242	ug/l	100
60) Dibromochloromethane	9.518	129	44184	18.709	ug/l	98
61) 1,2-Dibromoethane	9.610	107	45897	18.539	ug/l	96
64) Tetrachloroethene	9.269	164	39340	21.213	ug/l	98
65) Chlorobenzene	10.079	112	123286	19.435	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	40788	19.685	ug/l	99
67) Ethyl Benzene	10.195	91	209043	20.209	ug/l	100
68) m/p-Xylenes	10.299	106	160547	40.586	ug/l	99
69) o-Xylene	10.640	106	79997	20.128	ug/l	99
70) Styrene	10.652	104	133590	20.223	ug/l	99
71) Bromoform	10.799	173	26501	17.788	ug/l #	96
73) Isopropylbenzene	10.963	105	207962	20.539	ug/l	100
74) N-amyl acetate	10.841	43	89068	18.058	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	67422	18.518	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	54362m	17.788	ug/l	
77) Bromobenzene	11.195	156	50119	19.170	ug/l	99
78) n-propylbenzene	11.305	91	227750	20.630	ug/l	99
79) 2-Chlorotoluene	11.360	91	143898	19.657	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	171034	20.260	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.018	75	19932	17.942	ug/l	96
82) 4-Chlorotoluene	11.451	91	162418	19.767	ug/l	96
83) tert-Butylbenzene	11.713	119	176326	20.537	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	176438	20.508	ug/l	99
85) sec-Butylbenzene	11.890	105	214438	21.308	ug/l	100
86) p-Isopropyltoluene	12.006	119	180325	21.080	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	92275	19.691	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	93923	19.343	ug/l	99
89) n-Butylbenzene	12.329	91	148112	21.249	ug/l	99
90) Hexachloroethane	12.536	117	28082	20.210	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	92312	19.265	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	12277	16.540	ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	55722	19.158	ug/l	98
94) Hexachlorobutadiene	13.725	225	22819	21.279	ug/l	98
95) Naphthalene	13.774	128	207496	18.643	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	57807	18.850	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043586.D
Acq On : 29 Oct 2024 10:57
Operator : JC/MD
Sample : VX1029WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:26:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

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

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

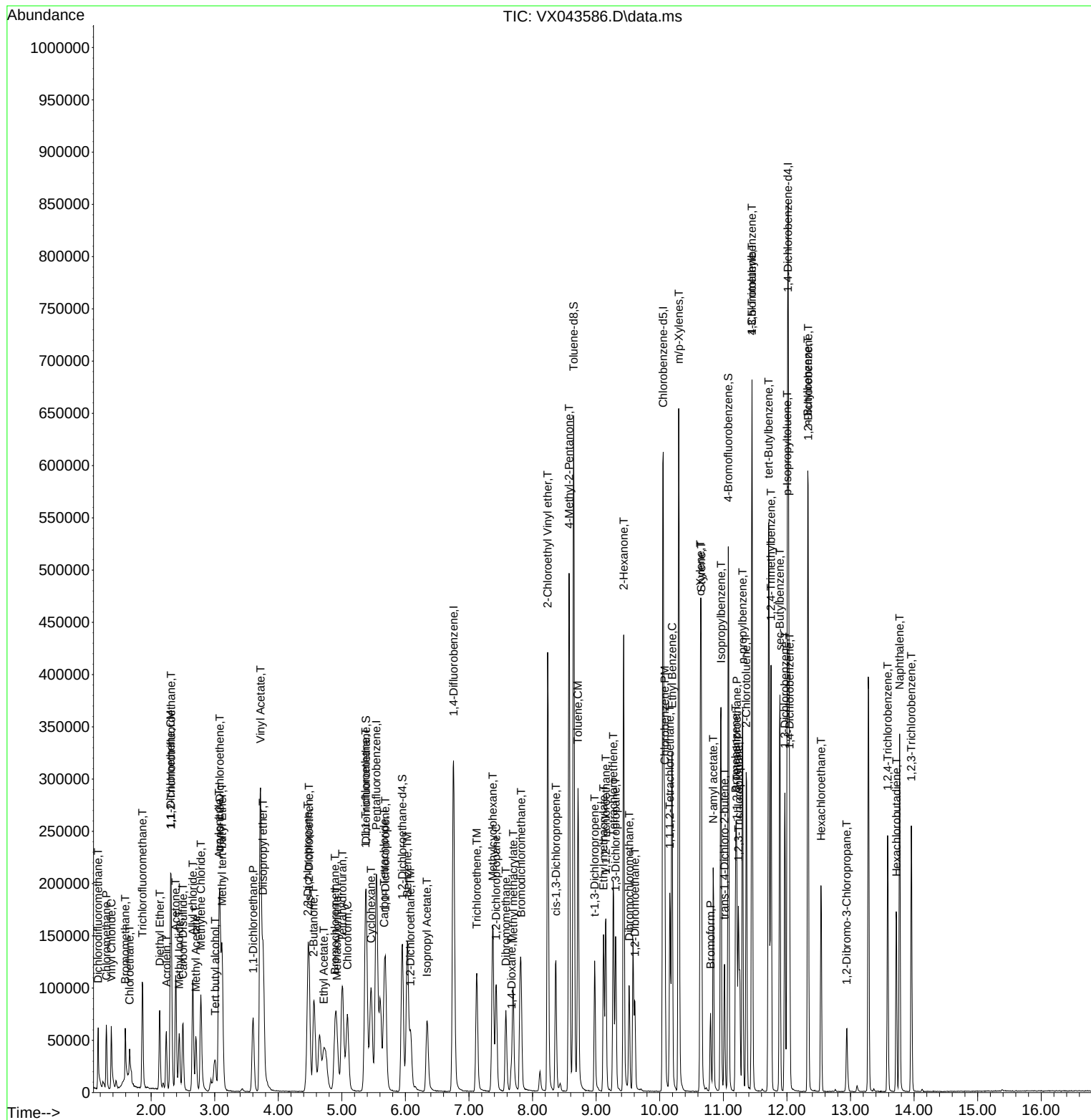
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043586.D
Acq On : 29 Oct 2024 10:57
Operator : JC/MD
Sample : VX1029WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:26:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBS01	SDG No.:	P4578
Lab Sample ID:	VY1028SBS01	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
VY020031.D	1		10/28/24 10:40	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	16.9		1.70	5.00	ug/Kg
74-87-3	Chloromethane	16.0		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.4		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.2		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.2		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	10.9		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.8		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.3		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.6		0.69	5.00	ug/Kg
78-93-3	2-Butanone	100		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.7		2.40	5.00	ug/Kg
67-66-3	Chloroform	22.7		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.2		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.2		0.87	5.00	ug/Kg
71-43-2	Benzene	19.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.3		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.9		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	95.9		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VY1028SBS01			SDG No.:	P4578
Lab Sample ID:	VY1028SBS01			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
VY020031.D	1		10/28/24 10:40	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.6		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.3		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	100		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.0		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.5		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.1		1.40	10.0	ug/Kg
95-47-6	o-Xylene	21.1		0.70	5.00	ug/Kg
100-42-5	Styrene	21.5		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	22.4		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.1		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.3		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.5		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	54.9		70 (54) - 130 (147)	110%	SPK: 50
2037-26-5	Toluene-d8	53.7		70 (58) - 130 (134)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		70 (29) - 130 (146)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	208000	7.719			
540-36-3	1,4-Difluorobenzene	370000	8.621			
3114-55-4	Chlorobenzene-d5	306000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.352			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1028SBS01		SDG No.:	P4578
Lab Sample ID:	VY1028SBS01		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
VY020031.D	1		10/28/24 10:40	VY102824

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\VY102824\
 Data File : VY020031.D
 Acq On : 28 Oct 2024 10:40
 Operator : SY/MD
 Sample : VY1028SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1028SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 01:53:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.719	168	208423	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.621	114	369952	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	306417	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	143516	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	134056	52.237	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery	= 104.480%		
35) Dibromofluoromethane	7.646	113	134145	54.949	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery	= 109.900%		
50) Toluene-d8	10.115	98	484561	53.749	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery	= 107.500%		
62) 4-Bromofluorobenzene	12.413	95	170868	52.454	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery	= 104.900%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	32741	16.875	ug/l	95
3) Chloromethane	2.080	50	40405	16.000	ug/l	97
4) Vinyl Chloride	2.214	62	49378	17.769	ug/l	99
5) Bromomethane	2.604	94	32411	18.427	ug/l	91
6) Chloroethane	2.744	64	35791	19.172	ug/l	98
7) Trichlorofluoromethane	3.074	101	79213	19.157	ug/l	96
8) Diethyl Ether	3.464	74	21456	17.073	ug/l	73
9) 1,1,2-Trichlorotrifluo...	3.830	101	51206	21.290	ug/l	90
10) Methyl Iodide	4.019	142	36576	15.036	ug/l	# 89
11) Tert butyl alcohol	4.878	59	19390m	81.425	ug/l	
12) 1,1-Dichloroethene	3.799	96	40603	18.159	ug/l	84
13) Acrolein	3.671	56	11045	58.572	ug/l	96
14) Allyl chloride	4.403	41	77389	19.183	ug/l	# 88
15) Acrylonitrile	5.079	53	55664	96.840	ug/l	99
16) Acetone	3.878	43	73950	110.695	ug/l	# 83
17) Carbon Disulfide	4.116	76	65403	10.913	ug/l	99
18) Methyl Acetate	4.397	43	26614	18.494	ug/l	# 87
19) Methyl tert-butyl Ether	5.134	73	122382	19.052	ug/l	99
20) Methylene Chloride	4.628	84	49423	19.531	ug/l	# 80
21) trans-1,2-Dichloroethene	5.134	96	43296	17.791	ug/l	86
22) Diisopropyl ether	6.030	45	192552	21.912	ug/l	# 89
23) Vinyl Acetate	5.976	43	482009	95.679	ug/l	# 90
24) 1,1-Dichloroethane	5.933	63	108918	22.297	ug/l	95
25) 2-Butanone	6.908	43	92841	103.825	ug/l	# 83
26) 2,2-Dichloropropane	6.902	77	94484	21.719	ug/l	93
27) cis-1,2-Dichloroethene	6.902	96	61550	20.466	ug/l	81
28) Bromochloromethane	7.256	49	42394	19.718	ug/l	# 73
29) Tetrahydrofuran	7.274	42	45258	88.642	ug/l	# 83
30) Chloroform	7.433	83	112858	22.665	ug/l	100
31) Cyclohexane	7.713	56	75507	17.609	ug/l	90
32) 1,1,1-Trichloroethane	7.628	97	96949	22.216	ug/l	95
36) 1,1-Dichloropropene	7.847	75	67811	19.280	ug/l	93
37) Ethyl Acetate	7.000	43	33231	18.120	ug/l	96
38) Carbon Tetrachloride	7.829	117	78408	20.796	ug/l	97
39) Methylcyclohexane	9.115	83	76409	17.242	ug/l	86
40) Benzene	8.091	78	210923	19.816	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020031.D
 Acq On : 28 Oct 2024 10:40
 Operator : SY/MD
 Sample : VY1028SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1028SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 01:53:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	15612	15.729	ug/l	93
42) 1,2-Dichloroethane	8.170	62	62066	20.296	ug/l	94
43) Isopropyl Acetate	8.207	43	67982	18.176	ug/l #	90
44) Trichloroethene	8.871	130	50034	19.408	ug/l	99
45) 1,2-Dichloropropane	9.146	63	56792	21.317	ug/l	99
46) Dibromomethane	9.237	93	27820	19.112	ug/l #	88
47) Bromodichloromethane	9.432	83	84461	21.861	ug/l	97
48) Methyl methacrylate	9.231	41	30163	18.334	ug/l #	80
49) 1,4-Dioxane	9.237	88	5600	343.739	ug/l #	92
51) 4-Methyl-2-Pentanone	10.005	43	182942	95.896	ug/l	89
52) Toluene	10.176	92	135380	20.376	ug/l	100
53) t-1,3-Dichloropropene	10.402	75	68153	19.605	ug/l	100
54) cis-1,3-Dichloropropene	9.865	75	79294	19.331	ug/l #	80
55) 1,1,2-Trichloroethane	10.578	97	40764	21.256	ug/l	97
56) Ethyl methacrylate	10.444	69	50145	18.223	ug/l #	73
57) 1,3-Dichloropropane	10.725	76	68783	20.423	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.719	63	116854	91.218	ug/l	93
59) 2-Hexanone	10.767	43	139215	102.172	ug/l	86
60) Dibromochloromethane	10.920	129	50323	20.444	ug/l	98
61) 1,2-Dibromoethane	11.017	107	32941	19.008	ug/l	99
64) Tetrachloroethene	10.652	164	41223	18.914	ug/l	94
65) Chlorobenzene	11.444	112	146521	20.906	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.523	131	52164	21.999	ug/l	99
67) Ethyl Benzene	11.523	91	273403	21.475	ug/l	97
68) m/p-Xylenes	11.633	106	197834	42.075	ug/l	92
69) o-Xylene	11.962	106	95240	21.082	ug/l	91
70) Styrene	11.974	104	163782	21.488	ug/l	96
71) Bromoform	12.139	173	25328	19.953	ug/l #	97
73) Isopropylbenzene	12.261	105	270812	22.434	ug/l	99
74) N-amyl acetate	12.078	43	59166	18.505	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.511	83	45204	21.074	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	31676m	11.267	ug/l	
77) Bromobenzene	12.535	156	53070	20.717	ug/l	85
78) n-propylbenzene	12.602	91	327444	22.449	ug/l	97
79) 2-Chlorotoluene	12.682	91	185564	22.191	ug/l	93
80) 1,3,5-Trimethylbenzene	12.743	105	211518	21.697	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.310	75	13167	18.904	ug/l #	79
82) 4-Chlorotoluene	12.779	91	185341	21.676	ug/l	96
83) tert-Butylbenzene	13.005	119	203719	23.326	ug/l	96
84) 1,2,4-Trimethylbenzene	13.047	105	208878	21.611	ug/l	97
85) sec-Butylbenzene	13.182	105	306734	23.507	ug/l	97
86) p-Isopropyltoluene	13.297	119	235156	22.193	ug/l	96
87) 1,3-Dichlorobenzene	13.291	146	110209	21.304	ug/l	97
88) 1,4-Dichlorobenzene	13.371	146	108346	21.319	ug/l	96
89) n-Butylbenzene	13.621	91	234645	22.679	ug/l	98
90) Hexachloroethane	13.883	117	47820	23.177	ug/l	83
91) 1,2-Dichlorobenzene	13.663	146	98131	21.589	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.285	75	6229	18.196	ug/l	76
93) 1,2,4-Trichlorobenzene	14.925	180	47250	18.538	ug/l	96
94) Hexachlorobutadiene	15.029	225	29871	21.080	ug/l	100
95) Naphthalene	15.151	128	82573	17.177	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	38420	17.832	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020031.D
Acq On : 28 Oct 2024 10:40
Operator : SY/MD
Sample : VY1028SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBS01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 01:53:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

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

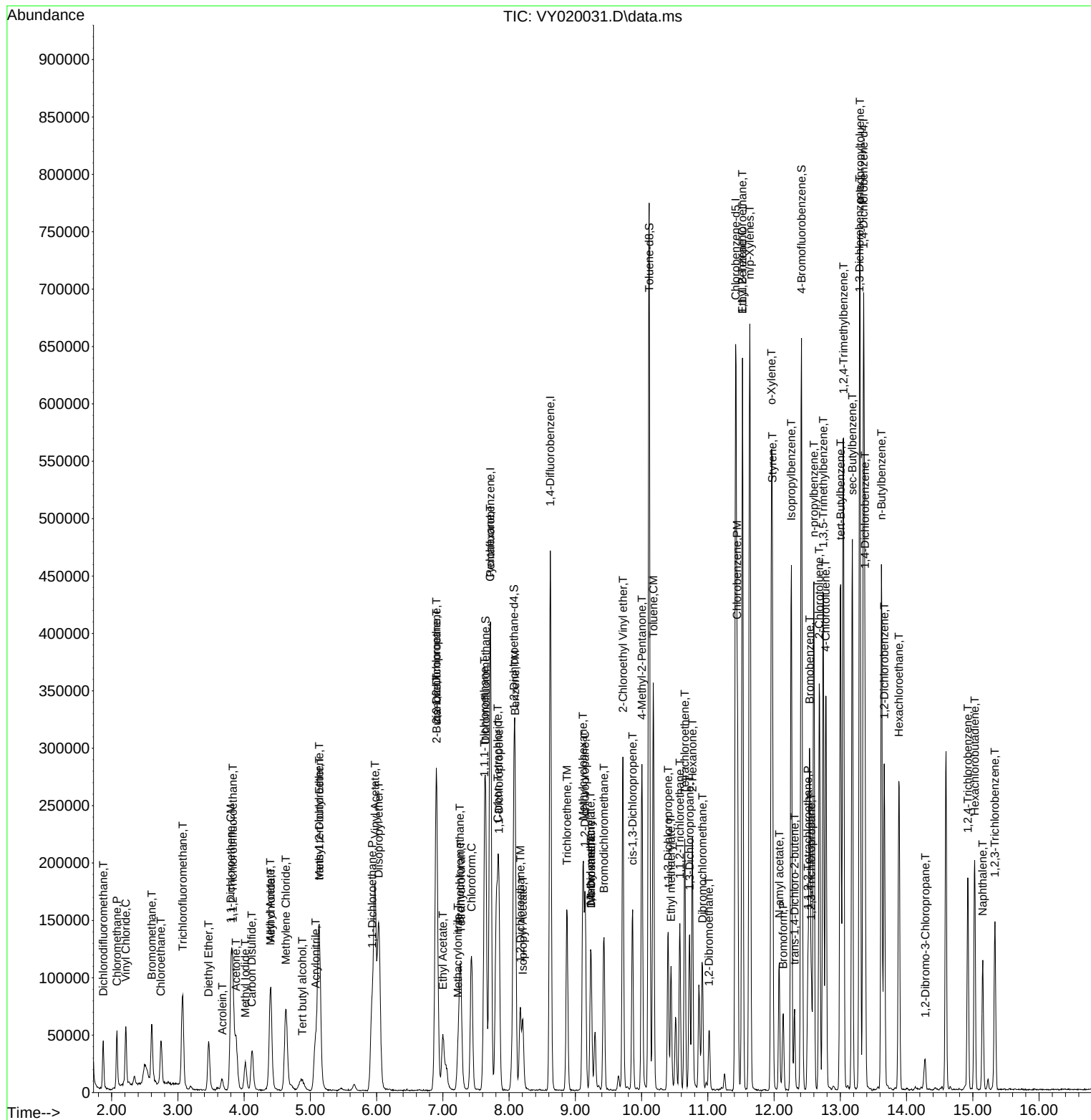
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020031.D
Acq On : 28 Oct 2024 10:40
Operator : SY/MD
Sample : VY10285BS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBS01

Manual Integrations

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 01:53:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1029SBS01	SDG No.:	P4578
Lab Sample ID:	VY1029SBS01	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
VY020051.D	1		10/29/24 11:04	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	14.9		1.70	5.00	ug/Kg
74-87-3	Chloromethane	15.7		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.5		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.7		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.3		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	17.4		0.78	5.00	ug/Kg
67-64-1	Acetone	140		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	10.2		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.2		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	21.6		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.8		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.6		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.3		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	16.9		0.69	5.00	ug/Kg
78-93-3	2-Butanone	130		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	23.4		2.40	5.00	ug/Kg
67-66-3	Chloroform	23.3		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	16.1		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	22.5		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.5		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1029SBS01	SDG No.:	P4578
Lab Sample ID:	VY1029SBS01	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
VY020051.D	1		10/29/24 11:04	VY102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.4		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.8		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	130		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.7		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.9		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	17.8		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.3		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.6		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.8		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.2		0.70	5.00	ug/Kg
100-42-5	Styrene	21.2		0.60	5.00	ug/Kg
75-25-2	Bromoform	21.7		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.4		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	23.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.2		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.4		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	22.3		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.1		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 (54) - 130 (147)	102%	SPK: 50
2037-26-5	Toluene-d8	50.3		70 (58) - 130 (134)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		70 (29) - 130 (146)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	186000	7.72			
540-36-3	1,4-Difluorobenzene	334000	8.622			
3114-55-4	Chlorobenzene-d5	286000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	135000	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1029SBS01		SDG No.:	P4578
Lab Sample ID:	VY1029SBS01		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
VY020051.D	1		10/29/24 11:04	VY102924

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\VY102924\
 Data File : VY020051.D
 Acq On : 29 Oct 2024 11:04
 Operator : SY/MD
 Sample : VY1029SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1029SBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
 Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:20:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.720	168	186283	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.622	114	334192	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	285725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	134900	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	118854	51.818	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.640%			
35) Dibromofluoromethane	7.640	113	112879	51.185	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.380%			
50) Toluene-d8	10.109	98	409396	50.270	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.540%			
62) 4-Bromofluorobenzene	12.408	95	147085	49.984	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 99.960%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.873	85	25827	14.893	ug/l	100
3) Chloromethane	2.080	50	35474	15.717	ug/l	97
4) Vinyl Chloride	2.214	62	44223	17.805	ug/l	96
5) Bromomethane	2.598	94	29055	18.482	ug/l	100
6) Chloroethane	2.739	64	32797	19.656	ug/l	97
7) Trichlorofluoromethane	3.068	101	71163	19.255	ug/l	89
8) Diethyl Ether	3.464	74	20688	18.419	ug/l	74
9) 1,1,2-Trichlorotrifluo...	3.824	101	43607	20.285	ug/l #	92
10) Methyl Iodide	4.013	142	32130	14.778	ug/l	90
11) Tert butyl alcohol	4.866	59	26387m	133.842	ug/l	
12) 1,1-Dichloroethene	3.793	96	34845	17.436	ug/l	85
13) Acrolein	3.659	56	11448	67.924	ug/l	94
14) Allyl chloride	4.397	41	69415	19.251	ug/l #	89
15) Acrylonitrile	5.074	53	60198	117.174	ug/l	97
16) Acetone	3.879	43	82827	138.719	ug/l #	81
17) Carbon Disulfide	4.116	76	54695	10.211	ug/l	96
18) Methyl Acetate	4.391	43	27741	21.568	ug/l #	88
19) Methyl tert-butyl Ether	5.128	73	121965	21.243	ug/l	95
20) Methylene Chloride	4.629	84	49107	21.804	ug/l #	75
21) trans-1,2-Dichloroethene	5.128	96	38225	17.574	ug/l #	85
22) Diisopropyl ether	6.031	45	180158	22.938	ug/l #	89
23) Vinyl Acetate	5.970	43	485811	107.896	ug/l #	92
24) 1,1-Dichloroethane	5.921	63	97435	22.317	ug/l	94
25) 2-Butanone	6.903	43	103150	129.064	ug/l #	83
26) 2,2-Dichloropropane	6.896	77	83105	21.374	ug/l	94
27) cis-1,2-Dichloroethene	6.903	96	55076	20.490	ug/l	78
28) Bromochloromethane	7.250	49	45015	23.425	ug/l #	71
29) Tetrahydrofuran	7.268	42	50969	111.692	ug/l #	80
30) Chloroform	7.427	83	103705	23.302	ug/l	96
31) Cyclohexane	7.707	56	64806	16.910	ug/l	92
32) 1,1,1-Trichloroethane	7.628	97	84591	21.688	ug/l #	93
36) 1,1-Dichloropropene	7.841	75	61159	19.250	ug/l	94
37) Ethyl Acetate	6.988	43	35245	21.274	ug/l #	94
38) Carbon Tetrachloride	7.823	117	68239	20.035	ug/l	97
39) Methylcyclohexane	9.116	83	64562	16.128	ug/l #	87
40) Benzene	8.091	78	191595	19.926	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
 Data File : VY020051.D
 Acq On : 29 Oct 2024 11:04
 Operator : SY/MD
 Sample : VY1029SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1029SBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
 Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:20:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	21227	23.674	ug/l #	85
42) 1,2-Dichloroethane	8.165	62	58042	21.012	ug/l	95
43) Isopropyl Acetate	8.201	43	74293	21.989	ug/l #	78
44) Trichloroethene	8.872	130	43223	18.560	ug/l	89
45) 1,2-Dichloropropane	9.146	63	54194	22.518	ug/l	96
46) Dibromomethane	9.238	93	27278	20.745	ug/l	88
47) Bromodichloromethane	9.427	83	78474	22.484	ug/l	100
48) Methyl methacrylate	9.225	41	31316	21.071	ug/l #	82
49) 1,4-Dioxane	9.231	88	6613	449.354	ug/l #	93
51) 4-Methyl-2-Pentanone	10.000	43	201726	117.057	ug/l	89
52) Toluene	10.176	92	122305	20.378	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	63925	20.356	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	76149	20.551	ug/l #	84
55) 1,1,2-Trichloroethane	10.573	97	39566	22.839	ug/l	100
56) Ethyl methacrylate	10.445	69	51345	20.655	ug/l #	73
57) 1,3-Dichloropropane	10.719	76	67251	22.105	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	127158	109.883	ug/l	92
59) 2-Hexanone	10.762	43	153924	125.055	ug/l	85
60) Dibromochloromethane	10.914	129	48177	21.667	ug/l	100
61) 1,2-Dibromoethane	11.018	107	32764	20.929	ug/l	98
64) Tetrachloroethene	10.652	164	36142	17.784	ug/l	93
65) Chlorobenzene	11.444	112	132709	20.307	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	48642	21.999	ug/l	98
67) Ethyl Benzene	11.524	91	244765	20.618	ug/l	98
68) m/p-Xylenes	11.633	106	178897	40.803	ug/l	93
69) o-Xylene	11.957	106	85245	20.236	ug/l	88
70) Styrene	11.975	104	150351	21.155	ug/l	94
71) Bromoform	12.133	173	25680	21.695	ug/l #	98
73) Isopropylbenzene	12.255	105	243064	21.421	ug/l	98
74) N-amyl acetate	12.072	43	62944	20.944	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	48220	23.916	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	34944m	13.223	ug/l	
77) Bromobenzene	12.536	156	49706	20.643	ug/l	81
78) n-propylbenzene	12.597	91	302261	22.046	ug/l	96
79) 2-Chlorotoluene	12.682	91	171019	21.757	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	195325	21.315	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.304	75	13261	20.255	ug/l #	74
82) 4-Chlorotoluene	12.780	91	172407	21.451	ug/l	95
83) tert-Butylbenzene	12.999	119	182466	22.227	ug/l	94
84) 1,2,4-Trimethylbenzene	13.042	105	194213	21.377	ug/l	94
85) sec-Butylbenzene	13.176	105	279579	22.794	ug/l	96
86) p-Isopropyltoluene	13.292	119	219728	22.062	ug/l	95
87) 1,3-Dichlorobenzene	13.292	146	103107	21.204	ug/l	96
88) 1,4-Dichlorobenzene	13.371	146	102087	21.370	ug/l	95
89) n-Butylbenzene	13.621	91	220214	22.644	ug/l	96
90) Hexachloroethane	13.883	117	44326	22.856	ug/l	84
91) 1,2-Dichlorobenzene	13.664	146	92483	21.646	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.279	75	7168	22.277	ug/l	68
93) 1,2,4-Trichlorobenzene	14.926	180	45744	19.094	ug/l	98
94) Hexachlorobutadiene	15.029	225	26814	20.131	ug/l	94
95) Naphthalene	15.145	128	83682	18.520	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	38515	19.018	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020051.D
Acq On : 29 Oct 2024 11:04
Operator : SY/MD
Sample : VY1029SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:20:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

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

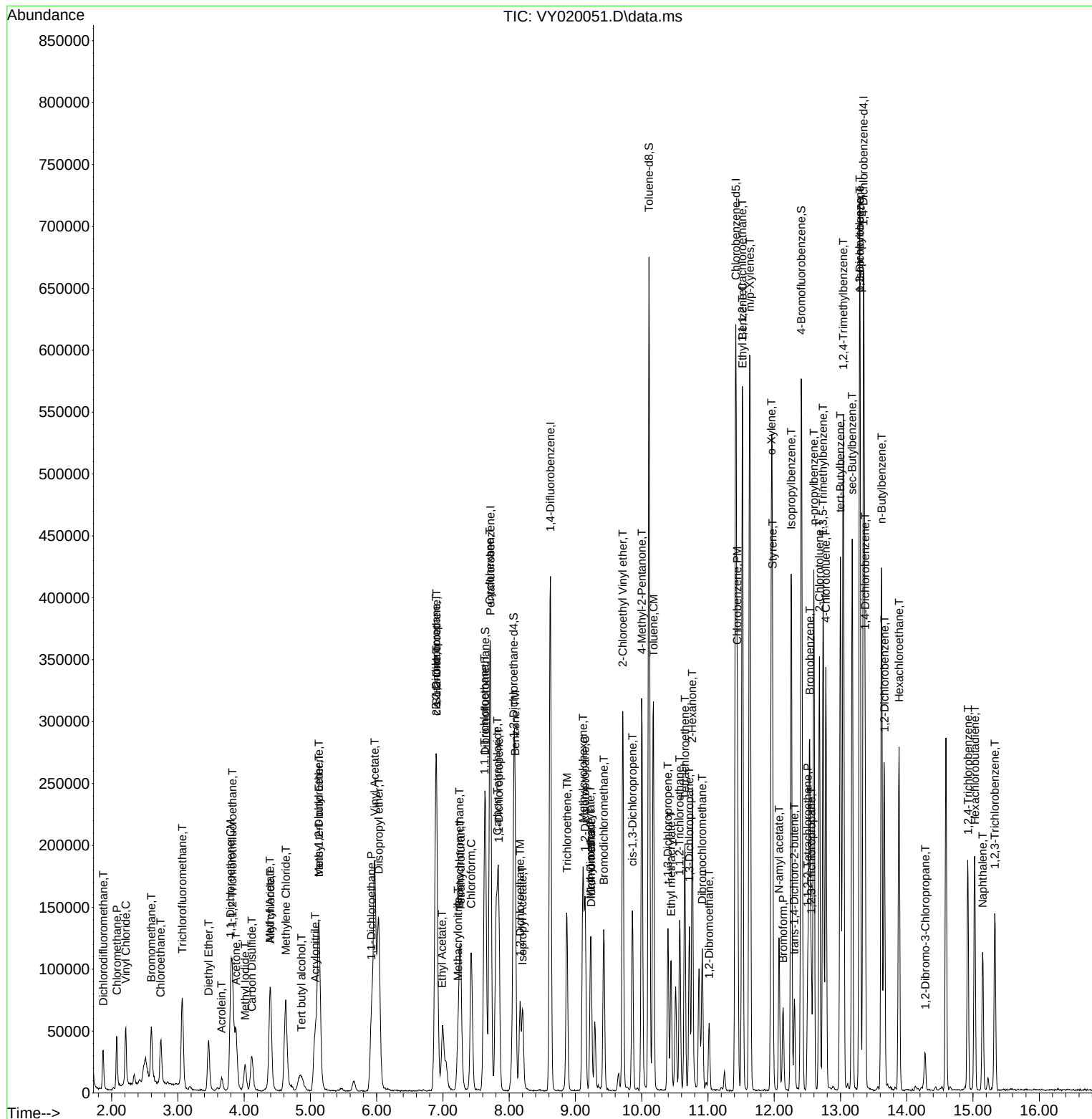
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
Data File : VY020051.D
Acq On : 29 Oct 2024 11:04
Operator : SY/MD
Sample : VY1029SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1029SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:20:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1029WBSD01	SDG No.:	P4578
Lab Sample ID:	VX1029WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043587.D	1		10/29/24 11:20	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.2		0.21	1.00	ug/L
74-87-3	Chloromethane	16.6		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.1		0.34	1.00	ug/L
74-83-9	Bromomethane	18.6		1.40	5.00	ug/L
75-00-3	Chloroethane	18.9		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.6		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.1		0.26	1.00	ug/L
67-64-1	Acetone	95.8		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.1		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	17.1		0.60	1.00	ug/L
75-09-2	Methylene Chloride	17.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.4		0.23	1.00	ug/L
110-82-7	Cyclohexane	20.1		1.60	5.00	ug/L
78-93-3	2-Butanone	91.3		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.0		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	18.8		0.18	1.00	ug/L
67-66-3	Chloroform	18.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.1		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	21.0		0.19	1.00	ug/L
71-43-2	Benzene	19.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.5		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	18.9		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	98.8		0.75	5.00	ug/L
108-88-3	Toluene	20.2		0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VX1029WBSD01			SDG No.:	P4578
Lab Sample ID:	VX1029WBSD01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043587.D	1		10/29/24 11:20	VX102924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.1		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.3		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.7		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.1		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.8		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	41.9		0.31	2.00	ug/L
95-47-6	o-Xylene	20.8		0.14	1.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	18.8		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	20.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.0		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.1		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.2		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.1		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.9		70 (74) - 130 (125)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		70 (75) - 130 (124)	94%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	180000	5.55			
540-36-3	1,4-Difluorobenzene	312000	6.757			
3114-55-4	Chlorobenzene-d5	270000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	131000	12.024			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VX1029WBSD01		SDG No.:	P4578
Lab Sample ID:	VX1029WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043587.D	1		10/29/24 11:20	VX102924

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_X\Data\VX102924\
 Data File : VX043587.D
 Acq On : 29 Oct 2024 11:20
 Operator : JC/MD
 Sample : VX1029WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1029WBSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
 Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:27:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	180366	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	312050	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	270005	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	131226	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	123296	42.871	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	85.740%		
35) Dibromofluoromethane	5.385	113	99899	47.211	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.420%		
50) Toluene-d8	8.647	98	366426	50.025	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.060%		
62) 4-Bromofluorobenzene	11.079	95	135860	50.055	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.100%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	35143	18.219	ug/l	98
3) Chloromethane	1.294	50	40942	16.605	ug/l	99
4) Vinyl Chloride	1.374	62	41339	18.065	ug/l	98
5) Bromomethane	1.593	94	17344	18.591	ug/l	94
6) Chloroethane	1.660	64	15277	18.949	ug/l	100
7) Trichlorofluoromethane	1.861	101	57506	20.570	ug/l	98
8) Diethyl Ether	2.136	74	23314	18.050	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.313	101	37452	19.809	ug/l	97
10) Methyl Iodide	2.441	142	53263	19.499	ug/l	96
11) Tert butyl alcohol	3.008	59	57011m	106.205	ug/l	
12) 1,1-Dichloroethene	2.307	96	36845	19.070	ug/l	96
13) Acrolein	2.239	56	39535	94.177	ug/l	100
14) Allyl chloride	2.660	41	61519	18.409	ug/l	97
15) Acrylonitrile	3.069	53	109405	90.270	ug/l	99
16) Acetone	2.392	43	109359	95.756	ug/l	100
17) Carbon Disulfide	2.502	76	73159	18.108	ug/l	99
18) Methyl Acetate	2.709	43	57203	17.138	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	131788	17.936	ug/l	97
20) Methylene Chloride	2.782	84	41826	16.993	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	38207	18.718	ug/l	93
22) Diisopropyl ether	3.764	45	127741	18.494	ug/l	97
23) Vinyl Acetate	3.721	43	526774	92.311	ug/l	99
24) 1,1-Dichloroethane	3.605	63	72922	18.368	ug/l	98
25) 2-Butanone	4.562	43	152135	91.321	ug/l	100
26) 2,2-Dichloropropane	4.465	77	61908	19.050	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	48502	18.602	ug/l	99
28) Bromochloromethane	4.898	49	35416	18.753	ug/l	100
29) Tetrahydrofuran	5.007	42	96260	88.912	ug/l	98
30) Chloroform	5.086	83	75982	18.258	ug/l	98
31) Cyclohexane	5.458	56	60944	20.070	ug/l	94
32) 1,1,1-Trichloroethane	5.379	97	66644	19.074	ug/l	98
36) 1,1-Dichloropropene	5.684	75	50726	20.217	ug/l	99
37) Ethyl Acetate	4.715	43	57527	18.885	ug/l	98
38) Carbon Tetrachloride	5.672	117	55313	19.952	ug/l	95
39) Methylcyclohexane	7.373	83	65547	21.041	ug/l	95
40) Benzene	6.031	78	162811	19.451	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
 Data File : VX043587.D
 Acq On : 29 Oct 2024 11:20
 Operator : JC/MD
 Sample : VX1029WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1029WBSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
 Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:27:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 28 13:41:34 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	30340	18.975	ug/l	96
42) 1,2-Dichloroethane	6.086	62	57693	19.172	ug/l	98
43) Isopropyl Acetate	6.342	43	94365	18.732	ug/l	98
44) Trichloroethene	7.123	130	40576	19.513	ug/l	98
45) 1,2-Dichloropropane	7.428	63	39286	19.061	ug/l	98
46) Dibromomethane	7.580	93	30214	19.039	ug/l	98
47) Bromodichloromethane	7.818	83	52666	18.918	ug/l	96
48) Methyl methacrylate	7.696	41	45342	18.984	ug/l	98
49) 1,4-Dioxane	7.671	88	22833	465.320	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	303410	98.818	ug/l	100
52) Toluene	8.720	92	102358	20.164	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	57218	19.136	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	64125	20.128	ug/l	93
55) 1,1,2-Trichloroethane	9.153	97	42874	20.290	ug/l	96
56) Ethyl methacrylate	9.116	69	67171	19.564	ug/l	97
57) 1,3-Dichloropropane	9.305	76	69379	19.741	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	161188	96.934	ug/l	98
59) 2-Hexanone	9.433	43	235915	101.166	ug/l	100
60) Dibromochloromethane	9.519	129	41001	19.595	ug/l	98
61) 1,2-Dibromoethane	9.610	107	43112	19.655	ug/l	97
64) Tetrachloroethene	9.275	164	35803	21.083	ug/l	94
65) Chlorobenzene	10.079	112	114879	19.776	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	39255	20.689	ug/l	99
67) Ethyl Benzene	10.195	91	191684	20.237	ug/l	97
68) m/p-Xylenes	10.299	106	151758	41.895	ug/l	95
69) o-Xylene	10.640	106	75831	20.836	ug/l	97
70) Styrene	10.653	104	124213	20.534	ug/l	99
71) Bromoform	10.799	173	25655	18.805	ug/l #	96
73) Isopropylbenzene	10.963	105	190648	20.509	ug/l	99
74) N-amyl acetate	10.842	43	86862	19.182	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	65393	19.563	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	52914m	18.859	ug/l	
77) Bromobenzene	11.195	156	46994	19.579	ug/l	99
78) n-propylbenzene	11.305	91	208848	20.606	ug/l	99
79) 2-Chlorotoluene	11.366	91	133377	19.846	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	161261	20.806	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	18827	18.460	ug/l	98
82) 4-Chlorotoluene	11.451	91	150670	19.974	ug/l	99
83) tert-Butylbenzene	11.713	119	165824	21.037	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	163892	20.749	ug/l	99
85) sec-Butylbenzene	11.890	105	197051	21.328	ug/l	100
86) p-Isopropyltoluene	12.006	119	164691	20.970	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	85827	19.950	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	85335	19.143	ug/l	99
89) n-Butylbenzene	12.329	91	132178	20.655	ug/l	98
90) Hexachloroethane	12.536	117	25551	20.029	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	88551	20.129	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	12736	18.690	ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	51206	19.176	ug/l	97
94) Hexachlorobutadiene	13.725	225	20393	20.713	ug/l	98
95) Naphthalene	13.774	128	200939	19.665	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	53643	19.053	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043587.D
Acq On : 29 Oct 2024 11:20
Operator : JC/MD
Sample : VX1029WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBSD01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:27:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

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

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

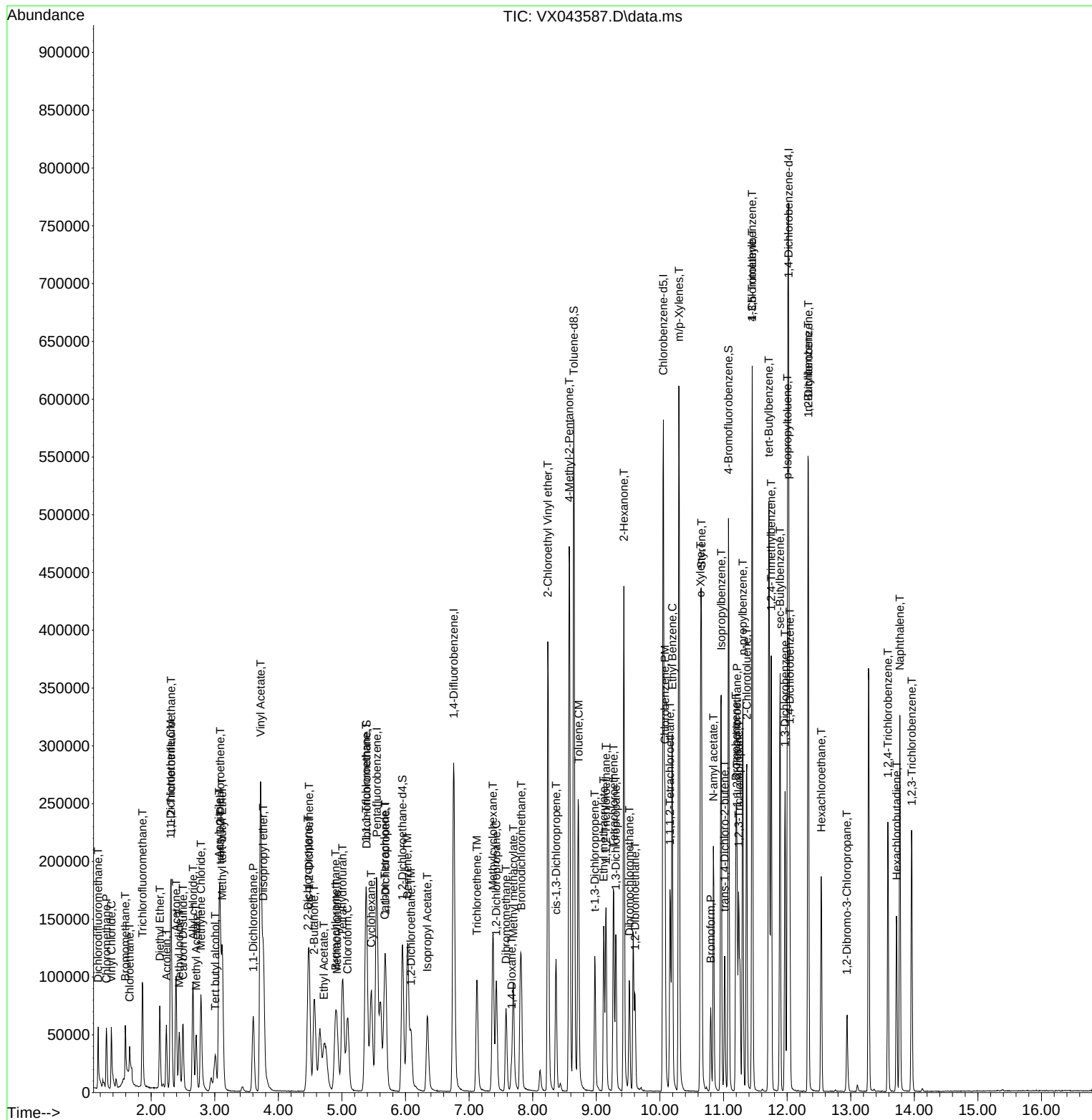
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102924\
Data File : VX043587.D
Acq On : 29 Oct 2024 11:20
Operator : JC/MD
Sample : VX1029WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1029WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/30/2024
Supervised By :Mahesh Dadoda 10/30/2024

Quant Time: Oct 30 01:27:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBSD01	SDG No.:	P4578
Lab Sample ID:	VY1028SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020032.D	1		10/28/24 11:02	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	16.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	16.3		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.1		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.9		1.00	5.00	ug/Kg
75-00-3	Chloroethane	18.8		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.9		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	17.6		0.78	5.00	ug/Kg
67-64-1	Acetone	130		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	10.4		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	20.9		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.3		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.7		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.8		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	22.2		2.40	5.00	ug/Kg
67-66-3	Chloroform	22.7		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.1		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.0		0.87	5.00	ug/Kg
71-43-2	Benzene	20.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.4		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	22.0		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VY1028SBSD01			SDG No.:	P4578
Lab Sample ID:	VY1028SBSD01			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
VY020032.D	1		10/28/24 11:02	VY102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.4		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.0		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	120		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.5		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.1		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.0		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	21.4		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.5		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.5		1.40	10.0	ug/Kg
95-47-6	o-Xylene	21.1		0.70	5.00	ug/Kg
100-42-5	Styrene	21.7		0.60	5.00	ug/Kg
75-25-2	Bromoform	21.2		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.3		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	22.4		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.0		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.0		70 (50) - 130 (163)	94%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	47.1		70 (58) - 130 (134)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (29) - 130 (146)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	201000	7.713			
540-36-3	1,4-Difluorobenzene	351000	8.622			
3114-55-4	Chlorobenzene-d5	296000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1028SBSD01	SDG No.:	P4578
Lab Sample ID:	VY1028SBSD01	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
VY020032.D	1		10/28/24 11:02	VY102824

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\VY102824\
 Data File : VY020032.D
 Acq On : 28 Oct 2024 11:02
 Operator : SY/MD
 Sample : VY1028SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1028SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 01:54:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	200597	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.622	114	351453	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	295814	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	146119	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	116184	47.039	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	94.080%
35) Dibromofluoromethane	7.640	113	115393	49.755	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.520%
50) Toluene-d8	10.109	98	403213	47.080	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	94.160%
62) 4-Bromofluorobenzene	12.407	95	145427	46.994	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	93.980%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	31035	16.619	ug/l	91
3) Chloromethane	2.074	50	39667	16.321	ug/l	93
4) Vinyl Chloride	2.208	62	45770	17.113	ug/l	99
5) Bromomethane	2.598	94	32052	18.933	ug/l	99
6) Chloroethane	2.738	64	33863	18.847	ug/l	97
7) Trichlorofluoromethane	3.062	101	75032	18.854	ug/l	97
8) Diethyl Ether	3.458	74	23615	19.524	ug/l	81
9) 1,1,2-Trichlorotrifluo...	3.818	101	46136	19.930	ug/l	92
10) Methyl Iodide	4.013	142	35722	15.258	ug/l	89
11) Tert butyl alcohol	4.872	59	20354	90.519	ug/l #	84
12) 1,1-Dichloroethene	3.799	96	37980	17.649	ug/l	85
13) Acrolein	3.659	56	13547	74.643	ug/l	100
14) Allyl chloride	4.397	41	75573	19.463	ug/l #	88
15) Acrylonitrile	5.067	53	61356	110.906	ug/l	95
16) Acetone	3.872	43	81133	126.186	ug/l #	84
17) Carbon Disulfide	4.116	76	60198	10.436	ug/l	100
18) Methyl Acetate	4.397	43	29007	20.943	ug/l #	87
19) Methyl tert-butyl Ether	5.122	73	130479	21.104	ug/l	96
20) Methylene Chloride	4.622	84	48334	19.859	ug/l #	82
21) trans-1,2-Dichloroethene	5.122	96	40487	17.286	ug/l	93
22) Diisopropyl ether	6.024	45	192184	22.723	ug/l	92
23) Vinyl Acetate	5.970	43	515221	106.262	ug/l #	89
24) 1,1-Dichloroethane	5.927	63	101708	21.634	ug/l	94
25) 2-Butanone	6.896	43	103284	120.010	ug/l #	82
26) 2,2-Dichloropropane	6.890	77	86311	20.614	ug/l	94
27) cis-1,2-Dichloroethene	6.896	96	60239	20.812	ug/l	84
28) Bromochloromethane	7.250	49	45912	22.187	ug/l #	71
29) Tetrahydrofuran	7.262	42	51566	104.937	ug/l #	81
30) Chloroform	7.427	83	108831	22.709	ug/l	97
31) Cyclohexane	7.707	56	70435	17.067	ug/l	90
32) 1,1,1-Trichloroethane	7.622	97	88545	21.082	ug/l #	93
36) 1,1-Dichloropropene	7.835	75	65595	19.632	ug/l	93
37) Ethyl Acetate	6.988	43	39591	22.724	ug/l #	92
38) Carbon Tetrachloride	7.823	117	73988	20.656	ug/l	98
39) Methylcyclohexane	9.115	83	71437	16.969	ug/l	85
40) Benzene	8.085	78	203054	20.081	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
 Data File : VY020032.D
 Acq On : 28 Oct 2024 11:02
 Operator : SY/MD
 Sample : VY1028SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1028SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 10/29/2024
 Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 01:54:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	22072	23.407	ug/l #	83
42) 1,2-Dichloroethane	8.164	62	62181	21.404	ug/l	95
43) Isopropyl Acetate	8.201	43	73461	20.675	ug/l #	90
44) Trichloroethene	8.872	130	46482	18.979	ug/l	86
45) 1,2-Dichloropropane	9.146	63	55584	21.962	ug/l	99
46) Dibromomethane	9.237	93	28598	20.681	ug/l	89
47) Bromodichloromethane	9.426	83	83153	22.655	ug/l	98
48) Methyl methacrylate	9.225	41	32581	20.846	ug/l #	81
49) 1,4-Dioxane	9.231	88	6247	403.636	ug/l #	87
51) 4-Methyl-2-Pentanone	9.999	43	205440	113.357	ug/l	89
52) Toluene	10.176	92	129047	20.445	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	67431	20.418	ug/l	97
54) cis-1,3-Dichloropropene	9.859	75	80401	20.633	ug/l #	83
55) 1,1,2-Trichloroethane	10.572	97	40089	22.004	ug/l	92
56) Ethyl methacrylate	10.438	69	54665	20.911	ug/l #	74
57) 1,3-Dichloropropane	10.719	76	69809	21.819	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	130240	107.019	ug/l	92
59) 2-Hexanone	10.761	43	158319	122.309	ug/l	86
60) Dibromochloromethane	10.914	129	50247	21.488	ug/l	99
61) 1,2-Dibromoethane	11.017	107	33148	20.135	ug/l	98
64) Tetrachloroethene	10.652	164	39913	18.969	ug/l	94
65) Chlorobenzene	11.444	112	144999	21.431	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	51226	22.378	ug/l	99
67) Ethyl Benzene	11.524	91	263771	21.461	ug/l	98
68) m/p-Xylenes	11.633	106	188291	41.481	ug/l	91
69) o-Xylene	11.956	106	92029	21.101	ug/l	91
70) Styrene	11.975	104	159728	21.708	ug/l	95
71) Bromoform	12.133	173	25963	21.186	ug/l #	100
73) Isopropylbenzene	12.255	105	261201	21.252	ug/l	97
74) N-amyl acetate	12.072	43	66538	20.440	ug/l	89
75) 1,1,2,2-Tetrachloroethane	12.511	83	48903	22.393	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	37749m	13.188	ug/l	
77) Bromobenzene	12.536	156	52388	20.087	ug/l	80
78) n-propylbenzene	12.596	91	322402	21.709	ug/l	95
79) 2-Chlorotoluene	12.682	91	177386	20.835	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	209093	21.066	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.304	75	14481	20.420	ug/l #	76
82) 4-Chlorotoluene	12.779	91	188444	21.647	ug/l	95
83) tert-Butylbenzene	12.999	119	192975	21.702	ug/l	95
84) 1,2,4-Trimethylbenzene	13.042	105	209092	21.247	ug/l	97
85) sec-Butylbenzene	13.176	105	297318	22.380	ug/l	96
86) p-Isopropyltoluene	13.291	119	234698	21.756	ug/l	96
87) 1,3-Dichlorobenzene	13.291	146	110766	21.030	ug/l	97
88) 1,4-Dichlorobenzene	13.371	146	109876	21.235	ug/l	95
89) n-Butylbenzene	13.621	91	237339	22.531	ug/l	97
90) Hexachloroethane	13.877	117	46832	22.294	ug/l	87
91) 1,2-Dichlorobenzene	13.657	146	99945	21.596	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	7553	21.671	ug/l	71
93) 1,2,4-Trichlorobenzene	14.925	180	52715	20.314	ug/l	96
94) Hexachlorobutadiene	15.023	225	30493	21.136	ug/l	99
95) Naphthalene	15.145	128	100388	20.511	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	45531	20.756	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020032.D
Acq On : 28 Oct 2024 11:02
Operator : SY/MD
Sample : VY1028SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBSD01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 01:54:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

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

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

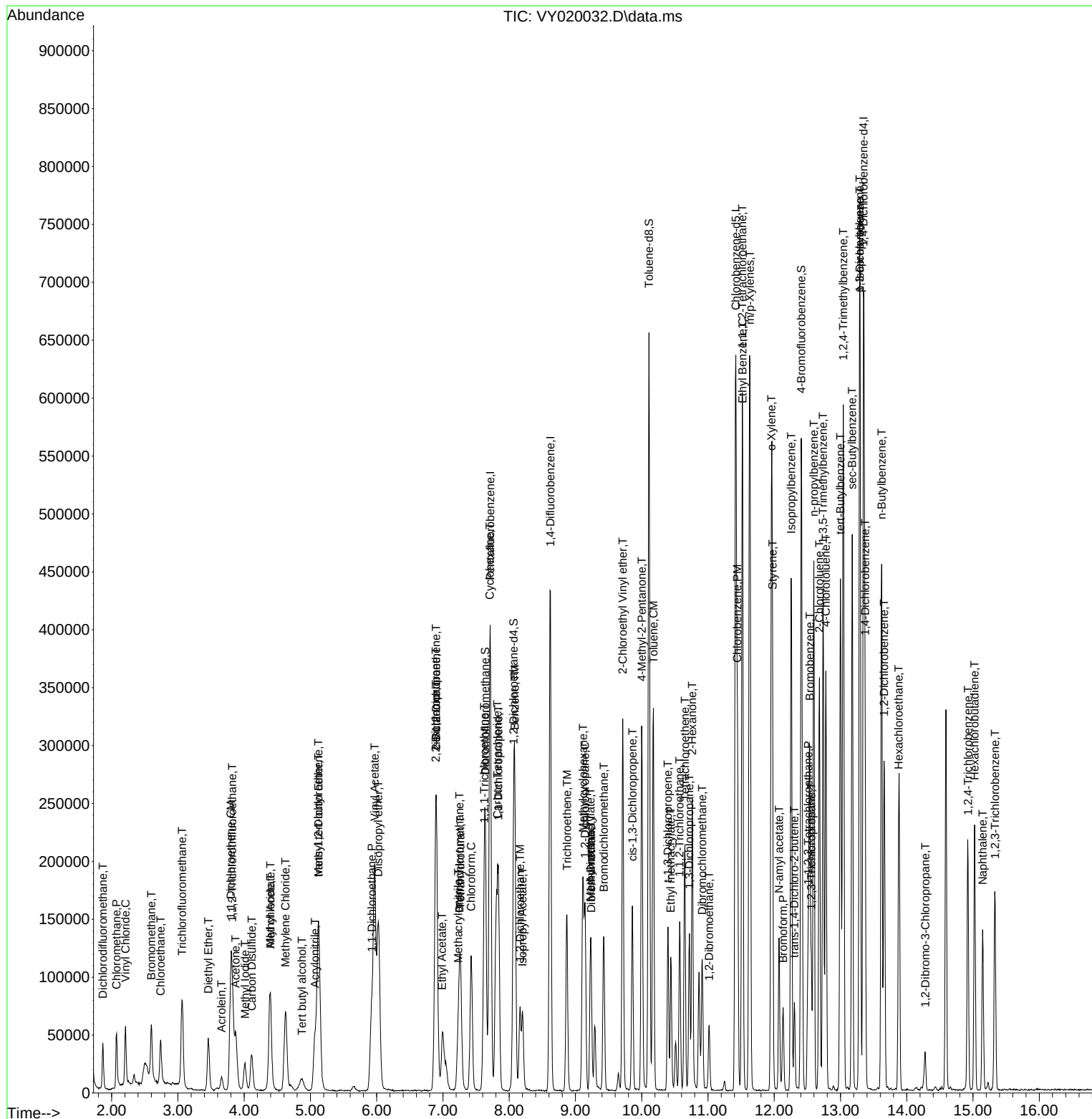
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102824\
Data File : VY020032.D
Acq On : 28 Oct 2024 11:02
Operator : SY/MD
Sample : VY10285B5D01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1028SBSD01

Manual Integrations

Reviewed By :Romaben Patel 10/29/2024
Supervised By :Mahesh Dadoda 10/29/2024

Quant Time: Oct 29 01:54:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



Manual Integration Report

Sequence:	VX102824	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX043556.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	1,4-Dichlorobenzene	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Ethyl Acetate	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Methacrylonitrile	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC005	VX043557.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:13 AM	MMDadoda	10/29/2024 12:19:39 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	Tert butyl alcohol	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	Tert butyl alcohol	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICC100	VX043560.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:22 AM	MMDadoda	10/29/2024 12:19:34 PM	Peak Integrated by Software
VSTDICC150	VX043561.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:57 AM	MMDadoda	10/29/2024 12:19:32 PM	Peak Integrated by Software
VSTDICV050	VX043563.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:27 AM	MMDadoda	10/29/2024 12:19:30 PM	Peak Integrated by Software
VSTDCCC050	VX043581.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:42 AM	MMDadoda	10/29/2024 12:19:26 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VX102824

Instrument

MSVOA_x

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

VX102924

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX043583.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:32 AM	MMDadoda	10/30/2024 1:23:51 PM	Peak Integrated by Software
VX1029WBS01	VX043586.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:35 AM	MMDadoda	10/30/2024 1:23:53 PM	Peak Integrated by Software
VX1029WBS01	VX043586.D	Chloroethane	SAM	10/30/2024 11:31:35 AM	MMDadoda	10/30/2024 1:23:53 PM	Peak Integrated by Software
VX1029WBS01	VX043586.D	Tert butyl alcohol	SAM	10/30/2024 11:31:35 AM	MMDadoda	10/30/2024 1:23:53 PM	Peak Integrated by Software
VX1029WBSD0 1	VX043587.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:36 AM	MMDadoda	10/30/2024 1:23:55 PM	Peak Integrated by Software
VX1029WBSD0 1	VX043587.D	Tert butyl alcohol	SAM	10/30/2024 11:31:36 AM	MMDadoda	10/30/2024 1:23:55 PM	Peak Integrated by Software
VSTDCCC050	VX043608.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:31:39 AM	MMDadoda	10/30/2024 1:23:58 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY100924

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY019827.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:35 AM	MMDadoda	10/10/2024 10:09:23 PM	Peak Integrated by Software
VSTDICC010	VY019828.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:39 AM	MMDadoda	10/10/2024 10:09:24 PM	Peak Integrated by Software
VSTDICC020	VY019829.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:29:24 AM	MMDadoda	10/10/2024 10:09:26 PM	Peak Integrated by Software
VSTDICCC050	VY019830.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:44 AM	MMDadoda	10/10/2024 10:09:28 PM	Peak Integrated by Software
VSTDICC100	VY019831.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:48 AM	MMDadoda	10/10/2024 10:09:30 PM	Peak Integrated by Software
VSTDICC150	VY019832.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:51 AM	MMDadoda	10/10/2024 10:09:32 PM	Peak Integrated by Software
VSTDICV050	VY019834.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:56 AM	MMDadoda	10/10/2024 10:09:33 PM	Peak Integrated by Software
VSTDCCC050	VY019842.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:29:13 AM	MMDadoda	10/10/2024 10:09:40 PM	Peak Integrated by Software
VSTDCCC050	VY019842.D	Methacrylonitrile	Romaben	10/10/2024 10:29:13 AM	MMDadoda	10/10/2024 10:09:40 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY102824	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020029.D	1,2,3-Trichloropropane	Romaben	10/29/2024 11:27:48 AM	MMDadoda	10/29/2024 12:17:48 PM	Peak Integrated by Software
VY1028SBS01	VY020031.D	1,2,3-Trichloropropane	Romaben	10/29/2024 11:27:51 AM	MMDadoda	10/29/2024 12:17:56 PM	Peak Integrated by Software
VY1028SBS01	VY020031.D	Tert butyl alcohol	Romaben	10/29/2024 11:27:51 AM	MMDadoda	10/29/2024 12:17:56 PM	Peak Integrated by Software
VY1028SBSD0 1	VY020032.D	1,2,3-Trichloropropane	Romaben	10/29/2024 11:27:55 AM	MMDadoda	10/29/2024 12:17:54 PM	Peak Integrated by Software
VSTDCCC050	VY020046.D	1,2,3-Trichloropropane	Romaben	10/29/2024 11:27:58 AM	MMDadoda	10/29/2024 12:17:54 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY102924	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020049.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:30:37 AM	MMDadoda	10/30/2024 1:22:35 PM	Peak Integrated by Software
VY1029SBS01	VY020051.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:30:40 AM	MMDadoda	10/30/2024 1:22:36 PM	Peak Integrated by Software
VY1029SBS01	VY020051.D	Tert butyl alcohol	SAM	10/30/2024 11:30:40 AM	MMDadoda	10/30/2024 1:22:36 PM	Peak Integrated by Software
VSTDCCC050	VY020073.D	1,2,3-Trichloropropane	SAM	10/30/2024 11:30:53 AM	MMDadoda	10/30/2024 1:22:42 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM		
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131142			
Initial Calibration Stds		VP131143,VP131144,VP131145,VP131147,VP131148,VP131149			
CCC		VP131151,VP131152			
Internal Standard/PEM		VP128298			
ICV/I.BLK		VP131150			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043555.D	28 Oct 2024 10:09	JC/MD	Ok
2	VSTDIC001	VX043556.D	28 Oct 2024 10:59	JC/MD	Ok,M
3	VSTDIC005	VX043557.D	28 Oct 2024 11:22	JC/MD	Ok,M
4	VSTDIC020	VX043558.D	28 Oct 2024 11:45	JC/MD	Ok,M
5	VSTDIC050	VX043559.D	28 Oct 2024 12:08	JC/MD	Ok,M
6	VSTDIC100	VX043560.D	28 Oct 2024 12:31	JC/MD	Ok,M
7	VSTDIC150	VX043561.D	28 Oct 2024 12:54	JC/MD	Ok,M
8	VIBLK	VX043562.D	28 Oct 2024 14:04	JC/MD	Ok
9	VSTDICV050	VX043563.D	28 Oct 2024 14:27	JC/MD	Ok,M
10	VX1028MBL01	VX043564.D	28 Oct 2024 15:02	JC/MD	Not Ok
11	VX1028WBL01	VX043565.D	28 Oct 2024 15:52	JC/MD	Ok
12	VX1028WBS01	VX043566.D	28 Oct 2024 16:28	JC/MD	Ok,M
13	VX1028WBSD01	VX043567.D	28 Oct 2024 16:51	JC/MD	Ok,M
14	PB164394TB	VX043568.D	28 Oct 2024 17:14	JC/MD	Ok
15	PB164394ZHE#01	VX043569.D	28 Oct 2024 17:38	JC/MD	Ok
16	PB164394ZHE#02	VX043570.D	28 Oct 2024 18:01	JC/MD	Ok
17	PB164394ZHE#03	VX043571.D	28 Oct 2024 18:24	JC/MD	Ok
18	PB164394ZHE#04	VX043572.D	28 Oct 2024 18:47	JC/MD	Ok
19	PB164394ZHE#05	VX043573.D	28 Oct 2024 19:10	JC/MD	Ok
20	PB164394ZHE#06	VX043574.D	28 Oct 2024 19:33	JC/MD	Ok
21	PB164394ZHE#07	VX043575.D	28 Oct 2024 19:56	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM		
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131142			
Initial Calibration Stds		VP131143,VP131144,VP131145,VP131147,VP131148,VP131149			
CCC		VP131151,VP131152			
Internal Standard/PEM		VP128298			
ICV/I.BLK		VP131150			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	PB164394ZHE#08	VX043576.D	28 Oct 2024 20:19	JC/MD	Ok
23	PB164394ZHE#09	VX043577.D	28 Oct 2024 20:42	JC/MD	Ok
24	PB164394ZHE#10	VX043578.D	28 Oct 2024 21:05	JC/MD	Ok
25	PB164394ZHE#11	VX043579.D	28 Oct 2024 21:28	JC/MD	Ok
26	PB164394ZHE#12	VX043580.D	28 Oct 2024 21:52	JC/MD	Ok
27	VSTDCCC050	VX043581.D	28 Oct 2024 22:15	JC/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:31:42 AM		
Supervise By	Maresh Dadoda	Supervise On	10/30/2024 1:24:02 PM		
SubDirectory	VX102924	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131169			
CCC		VP131171,VP131172			
Internal Standard/PEM		VP128298			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043582.D	29 Oct 2024 08:30	JC/MD	Ok
2	VSTDCCC050	VX043583.D	29 Oct 2024 09:29	JC/MD	Ok,M
3	VX1029MBL01	VX043584.D	29 Oct 2024 10:06	JC/MD	Ok
4	VX1029WBL01	VX043585.D	29 Oct 2024 10:31	JC/MD	Ok
5	VX1029WBS01	VX043586.D	29 Oct 2024 10:57	JC/MD	Ok,M
6	VX1029WBSD01	VX043587.D	29 Oct 2024 11:20	JC/MD	Ok,M
7	VIBLK	VX043588.D	29 Oct 2024 11:43	JC/MD	Ok
8	P4596-07	VX043589.D	29 Oct 2024 12:10	JC/MD	Ok,M
9	VIBLK	VX043590.D	29 Oct 2024 12:33	JC/MD	Ok
10	P4578-09	VX043591.D	29 Oct 2024 12:56	JC/MD	Ok
11	P4548-09	VX043592.D	29 Oct 2024 13:19	JC/MD	Ok
12	P4548-01	VX043593.D	29 Oct 2024 13:43	JC/MD	Ok
13	P4548-03	VX043594.D	29 Oct 2024 14:06	JC/MD	Ok
14	P4548-05	VX043595.D	29 Oct 2024 14:29	JC/MD	Ok
15	P4548-07	VX043596.D	29 Oct 2024 14:52	JC/MD	Ok
16	P4578-01	VX043597.D	29 Oct 2024 15:15	JC/MD	Ok
17	P4578-02	VX043598.D	29 Oct 2024 15:38	JC/MD	Ok
18	P4600-01	VX043599.D	29 Oct 2024 16:01	JC/MD	Ok
19	P4600-02	VX043600.D	29 Oct 2024 16:24	JC/MD	Ok
20	P4600-03	VX043601.D	29 Oct 2024 16:48	JC/MD	Ok
21	P4600-04	VX043602.D	29 Oct 2024 17:11	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:31:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:24:02 PM		
SubDirectory	VX102924	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds	VP131169				
CCC	VP131171,VP131172				
Internal Standard/PEM	VP128298				
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	P4600-05	VX043603.D	29 Oct 2024 17:34	JC/MD	ReRun
23	P4600-06	VX043604.D	29 Oct 2024 17:57	JC/MD	Ok
24	P4600-07	VX043605.D	29 Oct 2024 18:20	JC/MD	Ok
25	P4562-01	VX043606.D	29 Oct 2024 18:43	JC/MD	Ok
26	P4562-01	VX043607.D	29 Oct 2024 19:06	JC/MD	ReRun
27	VSTDCCC050	VX043608.D	29 Oct 2024 19:29	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY100924

Review By	Mahesh Dadoda	Review On	10/10/2024 10:09:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/10/2024 10:11:49 PM		
SubDirectory	VY100924	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP130736			
Initial Calibration Stds		VP130737,VP130738,VP130739,VP130740,VP130741,VP130742			
CCC		VP130744,VP130745			
Internal Standard/PEM		VP128297			
ICV/I.BLK		VP130746			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019826.D	09 Oct 2024 09:33	SY/MD	Ok
2	VSTDIC005	VY019827.D	09 Oct 2024 10:18	SY/MD	Ok,M
3	VSTDIC010	VY019828.D	09 Oct 2024 10:41	SY/MD	Ok,M
4	VSTDIC020	VY019829.D	09 Oct 2024 11:04	SY/MD	Ok,M
5	VSTDIC050	VY019830.D	09 Oct 2024 11:26	SY/MD	Ok,M
6	VSTDIC100	VY019831.D	09 Oct 2024 11:49	SY/MD	Ok,M
7	VSTDIC150	VY019832.D	09 Oct 2024 12:11	SY/MD	Ok,M
8	VIBLK	VY019833.D	09 Oct 2024 12:35	SY/MD	Ok
9	VSTDICV050	VY019834.D	09 Oct 2024 15:25	SY/MD	Ok,M
10	VY1009SBL01	VY019835.D	09 Oct 2024 16:11	SY/MD	Ok
11	VY1009SBS01	VY019836.D	09 Oct 2024 16:41	SY/MD	Ok,M
12	VY1009SBS01	VY019837.D	09 Oct 2024 17:04	SY/MD	Ok,M
13	P4343-01	VY019838.D	09 Oct 2024 17:27	SY/MD	Not Ok
14	P4353-02	VY019839.D	09 Oct 2024 17:51	SY/MD	Ok
15	P4359-01	VY019840.D	09 Oct 2024 18:14	SY/MD	Ok
16	P4344-01	VY019841.D	09 Oct 2024 18:38	SY/MD	Ok
17	VSTDIC050	VY019842.D	09 Oct 2024 19:00	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY102824

Review By	Maresh Dadoda	Review On	10/29/2024 12:18:01 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:20:22 PM
SubDirectory	VY102824	HP Acquire Method	HP Processing Method
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131128		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131160,VP131161 VP128297		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020028.D	28 Oct 2024 08:55	SY/MD	Ok
2	VSTDCCC050	VY020029.D	28 Oct 2024 09:29	SY/MD	Ok,M
3	VY1028SBL01	VY020030.D	28 Oct 2024 09:58	SY/MD	Ok
4	VY1028SBS01	VY020031.D	28 Oct 2024 10:40	SY/MD	Ok,M
5	VY1028SBSD01	VY020032.D	28 Oct 2024 11:02	SY/MD	Ok,M
6	P4578-03	VY020033.D	28 Oct 2024 11:56	SY/MD	Ok
7	P4578-04	VY020034.D	28 Oct 2024 12:19	SY/MD	Ok
8	P4578-07	VY020035.D	28 Oct 2024 12:43	SY/MD	Ok
9	P4578-05	VY020036.D	28 Oct 2024 13:06	SY/MD	ReRun
10	P4575-01	VY020037.D	28 Oct 2024 13:52	SY/MD	ReRun
11	P4574-04	VY020038.D	28 Oct 2024 14:16	SY/MD	Ok
12	P4574-01	VY020039.D	28 Oct 2024 15:15	SY/MD	Ok
13	P4577-01	VY020040.D	28 Oct 2024 15:41	SY/MD	Ok
14	P4561-03	VY020041.D	28 Oct 2024 16:05	SY/MD	Ok
15	P4561-07	VY020042.D	28 Oct 2024 16:28	SY/MD	ReRun
16	P4567-11	VY020043.D	28 Oct 2024 17:05	SY/MD	Ok
17	P4567-07	VY020044.D	28 Oct 2024 17:28	SY/MD	Ok
18	P4567-03	VY020045.D	28 Oct 2024 17:51	SY/MD	Ok
19	VSTDCCC050	VY020046.D	28 Oct 2024 18:14	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:30:55 AM
Supervise By	Maresh Dadoda	Supervise On	10/30/2024 1:22:48 PM
SubDirectory	VY102924	HP Acquire Method	HP Processing Method 82y100924s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131166		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131167,VP131168 VP128297		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020048.D	29 Oct 2024 08:58	SY/MD	Ok
2	VSTDCCC050	VY020049.D	29 Oct 2024 09:31	SY/MD	Ok,M
3	VY1029SBL01	VY020050.D	29 Oct 2024 10:01	SY/MD	Ok
4	VY1029SBS01	VY020051.D	29 Oct 2024 11:04	SY/MD	Ok,M
5	VY1029SBS02	VY020052.D	29 Oct 2024 11:27	SY/MD	Not Ok
6	P4566-01	VY020053.D	29 Oct 2024 12:05	SY/MD	Ok
7	P4597-01	VY020054.D	29 Oct 2024 12:28	SY/MD	Ok
8	P4575-01RE	VY020055.D	29 Oct 2024 12:52	SY/MD	Confirms
9	P4597-07	VY020056.D	29 Oct 2024 13:15	SY/MD	Not Ok
10	P4597-10	VY020057.D	29 Oct 2024 13:38	SY/MD	Ok
11	P4598-07	VY020058.D	29 Oct 2024 14:02	SY/MD	Ok
12	P4598-03	VY020059.D	29 Oct 2024 14:25	SY/MD	Ok
13	P4561-07RE	VY020060.D	29 Oct 2024 14:49	SY/MD	Confirms
14	P4597-04	VY020061.D	29 Oct 2024 15:12	SY/MD	Ok
15	P4578-05	VY020062.D	29 Oct 2024 15:36	SY/MD	Ok
16	P4578-03RE	VY020063.D	29 Oct 2024 15:59	SY/MD	Not Ok
17	P4598-11	VY020064.D	29 Oct 2024 16:22	SY/MD	Ok
18	P4595-05	VY020065.D	29 Oct 2024 16:46	SY/MD	Ok
19	P4594-19	VY020066.D	29 Oct 2024 17:09	SY/MD	Ok
20	P4594-11	VY020067.D	29 Oct 2024 17:33	SY/MD	Ok
21	P4594-03	VY020068.D	29 Oct 2024 17:56	SY/MD	Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:30:55 AM
Supervise By	Maresh Dadoda	Supervise On	10/30/2024 1:22:48 PM
SubDirectory	VY102924	HP Acquire Method	HP Processing Method 82y100924s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131166		
CCC	VP131167,VP131168		
Internal Standard/PEM	VP128297		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4594-07	VY020069.D	29 Oct 2024 18:19	SY/MD	ReRun
23	P4594-15	VY020070.D	29 Oct 2024 18:43	SY/MD	ReRun
24	VY1029SBS03	VY020071.D	29 Oct 2024 19:06	SY/MD	Not Ok
25	VY1029SBSD01	VY020072.D	29 Oct 2024 19:28	SY/MD	Ok,M
26	VSTDCCC050	VY020073.D	29 Oct 2024 19:51	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM
SubDirectory	VX102824	HP Acquire Method	MSVOA_X HP Processing Method 82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043555.D	28 Oct 2024 10:09		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX043556.D	28 Oct 2024 10:59	Method pass	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX043557.D	28 Oct 2024 11:22	8260D	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX043558.D	28 Oct 2024 11:45		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX043559.D	28 Oct 2024 12:08		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX043560.D	28 Oct 2024 12:31		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX043561.D	28 Oct 2024 12:54		JC/MD	Ok,M
8	VIBLK	VIBLK	VX043562.D	28 Oct 2024 14:04		JC/MD	Ok
9	VSTDICV050	ICVVX102824	VX043563.D	28 Oct 2024 14:27		JC/MD	Ok,M
10	VX1028MBL01	VX1028MBL01	VX043564.D	28 Oct 2024 15:02	Internal standard fail	JC/MD	Not Ok
11	VX1028WBL01	VX1028WBL01	VX043565.D	28 Oct 2024 15:52		JC/MD	Ok
12	VX1028WBS01	VX1028WBS01	VX043566.D	28 Oct 2024 16:28		JC/MD	Ok,M
13	VX1028WBSD01	VX1028WBSD01	VX043567.D	28 Oct 2024 16:51		JC/MD	Ok,M
14	PB164394TB	PB164394TB	VX043568.D	28 Oct 2024 17:14	pH#5.0 A	JC/MD	Ok
15	PB164394ZHE#01	PB164394ZHE#01	VX043569.D	28 Oct 2024 17:38	pH#5.0 A	JC/MD	Ok
16	PB164394ZHE#02	PB164394ZHE#02	VX043570.D	28 Oct 2024 18:01	pH#5.0 A	JC/MD	Ok
17	PB164394ZHE#03	PB164394ZHE#03	VX043571.D	28 Oct 2024 18:24	pH#5.0 A	JC/MD	Ok
18	PB164394ZHE#04	PB164394ZHE#04	VX043572.D	28 Oct 2024 18:47	pH#5.0 A	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM		
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131142			
Initial Calibration Stds		VP131143,VP131144,VP131145,VP131147,VP131148,VP131149			
CCC		VP131151,VP131152			
Internal Standard/PEM		VP128298			
ICV/I.BLK		VP131150			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	PB164394ZHE#05	PB164394ZHE#05	VX043573.D	28 Oct 2024 19:10	pH#5.0 A	JC/MD	Ok
20	PB164394ZHE#06	PB164394ZHE#06	VX043574.D	28 Oct 2024 19:33	pH#5.0 A	JC/MD	Ok
21	PB164394ZHE#07	PB164394ZHE#07	VX043575.D	28 Oct 2024 19:56	pH#5.0 A	JC/MD	Ok
22	PB164394ZHE#08	PB164394ZHE#08	VX043576.D	28 Oct 2024 20:19	pH#5.0 A	JC/MD	Ok
23	PB164394ZHE#09	PB164394ZHE#09	VX043577.D	28 Oct 2024 20:42	pH#5.0 A	JC/MD	Ok
24	PB164394ZHE#10	PB164394ZHE#10	VX043578.D	28 Oct 2024 21:05	pH#5.0 A	JC/MD	Ok
25	PB164394ZHE#11	PB164394ZHE#11	VX043579.D	28 Oct 2024 21:28	pH#5.0 A	JC/MD	Ok
26	PB164394ZHE#12	PB164394ZHE#12	VX043580.D	28 Oct 2024 21:52	pH#5.0 A	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX043581.D	28 Oct 2024 22:15	out of tune time	JC/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:31:42 AM
Supervise By	Maresh Dadoda	Supervise On	10/30/2024 1:24:02 PM
SubDirectory	VX102924	HP Acquire Method	MSVOA_X HP Processing Method 82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131169
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131171,VP131172 VP128298

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043582.D	29 Oct 2024 08:30		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX043583.D	29 Oct 2024 09:29		JC/MD	Ok,M
3	VX1029MBL01	VX1029MBL01	VX043584.D	29 Oct 2024 10:06		JC/MD	Ok
4	VX1029WBL01	VX1029WBL01	VX043585.D	29 Oct 2024 10:31		JC/MD	Ok
5	VX1029WBS01	VX1029WBS01	VX043586.D	29 Oct 2024 10:57		JC/MD	Ok,M
6	VX1029WBSD01	VX1029WBSD01	VX043587.D	29 Oct 2024 11:20		JC/MD	Ok,M
7	VIBLK	VIBLK	VX043588.D	29 Oct 2024 11:43		JC/MD	Ok
8	P4596-07	TOTE-WATER-COMP	VX043589.D	29 Oct 2024 12:10		JC/MD	Ok,M
9	VIBLK	VIBLK	VX043590.D	29 Oct 2024 12:33		JC/MD	Ok
10	P4578-09	TB-10252024	VX043591.D	29 Oct 2024 12:56	vial A pH<2 TB	JC/MD	Ok
11	P4548-09	TRIP BLANK	VX043592.D	29 Oct 2024 13:19	vial A pH<2 TB	JC/MD	Ok
12	P4548-01	MW-1	VX043593.D	29 Oct 2024 13:43	vial A pH<2	JC/MD	Ok
13	P4548-03	MW-2	VX043594.D	29 Oct 2024 14:06	vial A pH<2	JC/MD	Ok
14	P4548-05	MW-3	VX043595.D	29 Oct 2024 14:29	vial A pH<2	JC/MD	Ok
15	P4548-07	MW-4	VX043596.D	29 Oct 2024 14:52	vial A pH<2	JC/MD	Ok
16	P4578-01	WB-305-SW	VX043597.D	29 Oct 2024 15:15	vial A pH<2	JC/MD	Ok
17	P4578-02	WB-305-SW-1	VX043598.D	29 Oct 2024 15:38	vial A pH<2	JC/MD	Ok
18	P4600-01	BP-VPB-190-TB-20241	VX043599.D	29 Oct 2024 16:01	vial A pH<2 TB	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:31:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/30/2024 1:24:02 PM		
SubDirectory	VX102924	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131169			
CCC		VP131171,VP131172			
Internal Standard/PEM		VP128298			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	P4600-02	BP-VPB-190-DUP-2024	VX043600.D	29 Oct 2024 16:24	vial A pH<2	JC/MD	Ok
20	P4600-03	BP-VPB-190-GW-438-4	VX043601.D	29 Oct 2024 16:48	vial A pH<2	JC/MD	Ok
21	P4600-04	BP-VPB-190-GW-458-4	VX043602.D	29 Oct 2024 17:11	vial A pH<2	JC/MD	Ok
22	P4600-05	BP-VPB-190-GW-478-4	VX043603.D	29 Oct 2024 17:34	vial A pH<2 Internal standard fail	JC/MD	ReRun
23	P4600-06	BP-VPB-190-GW-498-5	VX043604.D	29 Oct 2024 17:57	vial A pH<2	JC/MD	Ok
24	P4600-07	BP-VPB-190-GW-518-5	VX043605.D	29 Oct 2024 18:20	vial A pH<2	JC/MD	Ok
25	P4562-01	Storage-Blank-SOIL-RE	VX043606.D	29 Oct 2024 18:43	vial A pH<2	JC/MD	Ok
26	P4562-01	Storage-Blank-SOIL-RE	VX043607.D	29 Oct 2024 19:06	vial A pH<2 Hit of com# 3	JC/MD	ReRun
27	VSTDCCC050	VSTDCCC050EC	VX043608.D	29 Oct 2024 19:29		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY100924

Review By	Mahesh Dadoda	Review On	10/10/2024 10:09:46 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/10/2024 10:11:49 PM
SubDirectory	VY100924	HP Acquire Method	MSVOA_Y HP Processing Method 82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP130736
Initial Calibration Stds	VP130737,VP130738,VP130739,VP130740,VP130741,VP130742
CCC	VP130744,VP130745
Internal Standard/PEM	VP128297
ICV/I.BLK	VP130746
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019826.D	09 Oct 2024 09:33		SY/MD	Ok
2	VSTDIC005	VSTDIC005	VY019827.D	09 Oct 2024 10:18		SY/MD	Ok,M
3	VSTDIC010	VSTDIC010	VY019828.D	09 Oct 2024 10:41		SY/MD	Ok,M
4	VSTDIC020	VSTDIC020	VY019829.D	09 Oct 2024 11:04		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY019830.D	09 Oct 2024 11:26	Comp. #11 is on Linear Regression	SY/MD	Ok,M
6	VSTDIC100	VSTDIC100	VY019831.D	09 Oct 2024 11:49		SY/MD	Ok,M
7	VSTDIC150	VSTDIC150	VY019832.D	09 Oct 2024 12:11		SY/MD	Ok,M
8	VIBLK	VIBLK	VY019833.D	09 Oct 2024 12:35		SY/MD	Ok
9	VSTDICV050	ICVVY100924	VY019834.D	09 Oct 2024 15:25		SY/MD	Ok,M
10	VY1009SBL01	VY1009SBL01	VY019835.D	09 Oct 2024 16:11		SY/MD	Ok
11	VY1009SBS01	VY1009SBS01	VY019836.D	09 Oct 2024 16:41		SY/MD	Ok,M
12	VY1009SBSD01	VY1009SBSD01	VY019837.D	09 Oct 2024 17:04		SY/MD	Ok,M
13	P4343-01	EO-03-100724	VY019838.D	09 Oct 2024 17:27	vial-B Not purged	SY/MD	Not Ok
14	P4353-02	CF-400-VOC-43	VY019839.D	09 Oct 2024 17:51	vial-A	SY/MD	Ok
15	P4359-01	EXCAVATION-SOIL	VY019840.D	09 Oct 2024 18:14	vial-A	SY/MD	Ok
16	P4344-01	TR-05-100724	VY019841.D	09 Oct 2024 18:38	vial-B	SY/MD	Ok
17	VSTDCC050	VSTDCC050EC	VY019842.D	09 Oct 2024 19:00		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY102824

Review By	Maresh Dadoda	Review On	10/29/2024 12:18:01 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:20:22 PM
SubDirectory	VY102824	HP Acquire Method	HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131128
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131160,VP131161 VP128297

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020028.D	28 Oct 2024 08:55		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020029.D	28 Oct 2024 09:29		SY/MD	Ok,M
3	VY1028SBL01	VY1028SBL01	VY020030.D	28 Oct 2024 09:58		SY/MD	Ok
4	VY1028SBS01	VY1028SBS01	VY020031.D	28 Oct 2024 10:40		SY/MD	Ok,M
5	VY1028SBSD01	VY1028SBSD01	VY020032.D	28 Oct 2024 11:02		SY/MD	Ok,M
6	P4578-03	WB-305-TOP	VY020033.D	28 Oct 2024 11:56	vial-A Internal Standard Fail	SY/MD	Ok
7	P4578-04	WB-305-TOP-1	VY020034.D	28 Oct 2024 12:19	vial-A	SY/MD	Ok
8	P4578-07	WB-305-BOT-1	VY020035.D	28 Oct 2024 12:43	vial-A	SY/MD	Ok
9	P4578-05	WB-305-BOT	VY020036.D	28 Oct 2024 13:06	vial-A Internal Standard Fail	SY/MD	ReRun
10	P4575-01	PL-02-102424	VY020037.D	28 Oct 2024 13:52	vial-A Internal Standard Fail	SY/MD	ReRun
11	P4574-04	GRAVEL-2	VY020038.D	28 Oct 2024 14:16	vial-A	SY/MD	Ok
12	P4574-01	GRAVEL-1	VY020039.D	28 Oct 2024 15:15	vial-A	SY/MD	Ok
13	P4577-01	TR-05-102524	VY020040.D	28 Oct 2024 15:41	vial-A	SY/MD	Ok
14	P4561-03	BP-F-19-VOC	VY020041.D	28 Oct 2024 16:05	vial-A	SY/MD	Ok
15	P4561-07	BP-F-18-VOC	VY020042.D	28 Oct 2024 16:28	vial-A Internal Standard Fail	SY/MD	ReRun
16	P4567-11	WC-3-VOC	VY020043.D	28 Oct 2024 17:05	vial-A	SY/MD	Ok
17	P4567-07	WC-2-VOC	VY020044.D	28 Oct 2024 17:28	vial-A	SY/MD	Ok
18	P4567-03	WC-1-VOC	VY020045.D	28 Oct 2024 17:51	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:18:01 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:20:22 PM
SubDirectory	VY102824	HP Acquire Method	HP Processing Method
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131128		
CCC	VP131160,VP131161		
Internal Standard/PEM	VP128297		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			
19	VSTDCCC050	VSTDCCC050EC	VY020046.D
			28 Oct 2024 18:14
			SY/MD
			Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:30:55 AM
Supervise By	Maresh Dadoda	Supervise On	10/30/2024 1:22:48 PM
SubDirectory	VY102924	HP Acquire Method	HP Processing Method 82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131166
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131167,VP131168 VP128297

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020048.D	29 Oct 2024 08:58		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020049.D	29 Oct 2024 09:31		SY/MD	Ok,M
3	VY1029SBL01	VY1029SBL01	VY020050.D	29 Oct 2024 10:01		SY/MD	Ok
4	VY1029SBS01	VY1029SBS01	VY020051.D	29 Oct 2024 11:04		SY/MD	Ok,M
5	VY1029SBS02	VY1029SBS02	VY020052.D	29 Oct 2024 11:27	Not req.	SY/MD	Not Ok
6	P4566-01	HD-01-102524	VY020053.D	29 Oct 2024 12:05	vial-A	SY/MD	Ok
7	P4597-01	RED-1-1	VY020054.D	29 Oct 2024 12:28	vial-A	SY/MD	Ok
8	P4575-01RE	PL-02-102424RE	VY020055.D	29 Oct 2024 12:52	vial-B ISTD Fail	SY/MD	Confirms
9	P4597-07	BLUE-2-1	VY020056.D	29 Oct 2024 13:15	vial-A NOT PURGE	SY/MD	Not Ok
10	P4597-10	BLUE-2-2	VY020057.D	29 Oct 2024 13:38	vial-A	SY/MD	Ok
11	P4598-07	BP-F11-VOC	VY020058.D	29 Oct 2024 14:02	vial-A	SY/MD	Ok
12	P4598-03	BP-F12-VOC	VY020059.D	29 Oct 2024 14:25	vial-A	SY/MD	Ok
13	P4561-07RE	BP-F-18-VOCRE	VY020060.D	29 Oct 2024 14:49	vial-B Internal Standard Fail	SY/MD	Confirms
14	P4597-04	RED-1-2	VY020061.D	29 Oct 2024 15:12	vial-A	SY/MD	Ok
15	P4578-05	WB-305-BOT	VY020062.D	29 Oct 2024 15:36	vial-B	SY/MD	Ok
16	P4578-03RE	WB-305-TOPRE	VY020063.D	29 Oct 2024 15:59	vial-B Internal Standard Fail; Not match with first run	SY/MD	Not Ok
17	P4598-11	TP-8-VOC	VY020064.D	29 Oct 2024 16:22	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY102924

Review By	Semsettin Yesilyurt	Review On	10/30/2024 11:30:55 AM
Supervise By	Maresh Dadoda	Supervise On	10/30/2024 1:22:48 PM
SubDirectory	VY102924	HP Acquire Method	HP Processing Method 82y100924s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131166		
CCC	VP131167,VP131168		
Internal Standard/PEM	VP128297		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	P4595-05	PITKIN-GRAB	VY020065.D	29 Oct 2024 16:46	vial-A	SY/MD	Ok
19	P4594-19	BP-F15-VOC	VY020066.D	29 Oct 2024 17:09	vial-A	SY/MD	Ok
20	P4594-11	BP-F16-VOC	VY020067.D	29 Oct 2024 17:33	vial-A	SY/MD	Ok
21	P4594-03	TP-4-VOC	VY020068.D	29 Oct 2024 17:56	vial-A	SY/MD	Ok
22	P4594-07	BP-F17-VOC	VY020069.D	29 Oct 2024 18:19	vial-A Internal Standard Fail	SY/MD	ReRun
23	P4594-15	TP-5-VOC	VY020070.D	29 Oct 2024 18:43	vial-A Internal Standard Fail	SY/MD	ReRun
24	VY1029SBS03	VY1029SBS03	VY020071.D	29 Oct 2024 19:06	Not req.	SY/MD	Not Ok
25	VY1029SBSD01	VY1029SBSD01	VY020072.D	29 Oct 2024 19:28		SY/MD	Ok,M
26	VSTDCCC050	VSTDCCC050EC	VY020073.D	29 Oct 2024 19:51		SY/MD	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 18:15
In Date: 10/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:38
Out Date: 10/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133131

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
P4561-01	BP-F-19	1	1.16	8.48	9.64	8.73	89.3	
P4561-02	BP-F-19-EPH	2	1.16	8.50	9.66	8.77	89.5	
P4561-03	BP-F-19-VOC	3	1.15	8.80	9.95	9.16	91.0	
P4561-05	BP-F-18	4	1.15	8.40	9.55	8.36	85.8	
P4561-06	BP-F-18-EPH	5	1.13	8.44	9.57	8.29	84.8	
P4561-07	BP-F-18-VOC	6	1.12	8.71	9.83	8.52	85.0	
P4562-05	SVOC-GPC-BLANK	7	1.00	1.00	2.00	2.00	100.0	
P4562-06	PEST-GPC-BLANK	8	1.00	1.00	2.00	2.00	100.0	
P4562-07	PEST-GPC-BLANK-SPIKE	9	1.00	1.00	2.00	2.00	100.0	
P4562-08	PCB-GPC-BLANK	10	1.00	1.00	2.00	2.00	100.0	
P4562-09	PCB-GPC-BLANK-SPIKE	11	1.00	1.00	2.00	2.00	100.0	
P4562-10	SVOC-GPC2-BLANK	12	1.00	1.00	2.00	2.00	100.0	
P4562-11	PEST-GPC2-BLANK	13	1.00	1.00	2.00	2.00	100.0	
P4562-12	PEST-GPC2-BLANK-SPIKE	14	1.00	1.00	2.00	2.00	100.0	
P4562-13	PCB-GPC2-BLANK	15	1.00	1.00	2.00	2.00	100.0	
P4562-14	PCB-GPC2-BLANK-SPIKE	16	1.00	1.00	2.00	2.00	100.0	
P4563-01	100724-A	26	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-02	100724-B	27	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-03	100724-C	28	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-04	100724-D	29	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-05	100824-A	30	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-06	100924-A	31	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-07	100924-B	32	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-08	101424-A	33	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-09	102324-A	34	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-10	102524-A	35	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-11	FITTING-1	36	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-12	FITTING-2	37	1.00	1.00	2.00	2.00	100.0	wipe sample



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 18:15
In Date: 10/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:38
Out Date: 10/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133131

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
P4565-01	2054	38	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-02	2055	39	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-03	2056	40	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-04	2057	41	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-05	2058	42	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-06	2059	43	1.00	1.00	2.00	2.00	100.0	wipe sample
P4566-01	HD-01-102524	44	1.14	8.57	9.71	9.47	97.2	
P4566-02	HD-01-102524-E2	45	1.13	8.84	9.97	9.42	93.8	
P4567-01	WC-1	17	1.16	8.50	9.66	8.89	90.9	
P4567-02	WC-1-EPH	18	1.13	8.67	9.8	8.99	90.7	
P4567-03	WC-1-VOC	19	1.18	8.35	9.53	9.05	94.3	
P4567-05	WC-2	20	1.11	8.58	9.69	8.99	91.8	
P4567-06	WC-2-EPH	21	1.18	8.79	9.97	9.12	90.3	
P4567-07	WC-2-VOC	22	1.16	8.46	9.62	9.46	98.1	
P4567-09	WC-3	23	1.17	8.41	9.58	8.69	89.4	
P4567-10	WC-3-EPH	24	1.19	8.78	9.97	9.17	90.9	
P4567-11	WC-3-VOC	25	1.14	8.82	9.96	9.19	91.3	
P4574-01	GRAVEL-1	50	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-02	GRAVEL-1-E2	51	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-04	GRAVEL-2	52	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-05	GRAVEL-2-E2	53	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-07	CONCRETE-1	54	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4574-09	CONCRETE-2	55	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4574-11	CONCRETE-3	56	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4575-01	PL-02-102424	57	1.15	8.42	9.57	8.84	91.3	
P4575-02	PL-02-102424-E2	58	1.15	8.83	9.98	8.99	88.8	
P4576-01	1097	59	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
P4576-02	1098	60	1.00	1.00	2.00	2.00	100.0	WIPE Sample



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 18:15
In Date: 10/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:38
Out Date: 10/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133131

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
P4577-01	TR-05-102524	61	1.18	8.40	9.58	9.03	93.5	
P4577-02	TR-05-102524-E2	62	1.17	8.53	9.7	9.03	92.1	
P4578-03	WB-305-TOP	46	1.15	8.81	9.96	5.89	53.8	
P4578-04	WB-305-TOP-1	47	1.12	8.82	9.94	6.3	58.7	
P4578-05	WB-305-BOT	48	1.15	8.81	9.96	8.38	82.1	
P4578-07	WB-305-BOT-1	49	1.13	8.86	9.99	9.49	94.4	

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

WORKLIST(Hardcopy Internal Chain)

133131

WorkList Name : %1-102524 WorkList ID : 184773 Department : Wet-Chemistry Date : 10-25-2024 09:56:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4561-01	BP-F-19	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-02	BP-F-19-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-03	BP-F-19-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-05	BP-F-18	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-06	BP-F-18-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-07	BP-F-18-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4562-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4563-01	100724-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-02	100724-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-03	100724-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-04	100724-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-05	100824-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO

Date/Time 10/25/24 16:30
 Raw Sample Received by: J.C. W.C.
 Raw Sample Relinquished by: J.C. W.C.
 Date/Time 10/25/24 18:30
 Raw Sample Received by: J.C. W.C.
 Raw Sample Relinquished by: J.C. W.C.

WORKLIST(Hardcopy Internal Chain)

133131

WorkList Name : %1-102524 WorkList ID : 184773 Department : Wet-Chemistry Date : 10-25-2024 09:56:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4563-06	100924-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-07	100924-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-08	101424-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-09	102324-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-10	102524-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-11	FITTING-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-12	FITTING-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-01	2054	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-02	2055	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-03	2056	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-04	2057	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-05	2058	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-06	2059	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4566-01	HD-01-102524	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4566-02	HD-01-102524-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4567-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-05	WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-06	WC-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-07	WC-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO

Date/Time 10/25/24 16:30
 Raw Sample Received by: J.C. Jm
 Raw Sample Relinquished by: J.C. Jm
 Date/Time 10/25/24 18:30
 Raw Sample Received by: J.C. Jm
 Raw Sample Relinquished by: J.C. Jm

WORKLIST(Hardcopy Internal Chain)

WB133131

WorkList Name : %1-102524

WorkList ID : 184773

Department : Wet-Chemistry

Date : 10-25-2024 09:56:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4567-09	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-10	WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-11	WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4574-01	GRAVEL-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-02	GRAVEL-1-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-04	GRAVEL-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-05	GRAVEL-2-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-07	CONCRETE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-09	CONCRETE-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-11	CONCRETE-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4575-01	PL-02-102424	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4575-02	PL-02-102424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4576-01	1097	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4576-02	1098	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4577-01	TR-05-102524	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4577-02	TR-05-102524-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4578-03	WB-305-TOP	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO
P4578-04	WB-305-TOP-1	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO
P4578-05	WB-305-BOT	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO
P4578-07	WB-305-BOT-1	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO

Date/Time 10/25/24 16:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 10/25/24 18:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]



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.

COC Number

2042038

P4578/79

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: GANNETT FLEMING
ADDRESS: 1010 Adams Avenue
CITY: Audubon STATE: PA ZIP: 19408
ATTENTION: JOE Krupansky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's rep. of SB
PROJECT NO.: 95000088 LOCATION: Kearny, NJ
PROJECT MANAGER: JOE Krupansky
e-mail: JAKC@bomys.com
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: chemtech PO#:
ADDRESS: 284 Sheffield St.
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha PHONE: 908-789-298

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

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

TECH VOC TO
TECH PAH
PCB'S
CHLORINATED
TAA Metals
EPH
TCLP-FULL
PCRA Parameters
TOX

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS			
			COMP	GRAB	DATE	TIME		A			F	B							← Specify Preservatives A-HCl B-HNO3 C-H2SO4	D-NaOH E-ICE F-OTHER
1.	NB-305-SW	GW	X		10/25	8:20	7	X	X	X	X	X	X							
2.	NB-305-SW-1	GW	X		10/25	8:30	7	X	X	X	X	X	X							
3.	NB-305-Top	S	X		10/25	9:20	11	X	X	X	X	X	X							
4.	NB-305-Top-1	S	X		10/25	9:30	11	X	X	X	X	X	X							
5.	NB-305-Bot	S	X		10/25	11:15	11	X	X	X	X	X	X	X	X	X				
6.	NB-305-Bot-1	S	X		10/25	11:20	11	X	X	X	X	X	X	X	X	X				
7.	FB-10252024	DIW			10/25		2	X												
8.																				
9.																				
10.																				

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP: 3.1 °C
1. Yvonda Pujara	10/25/24-3:11	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. [Signature]		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3. [Signature]	10.25.2024	3. [Signature]	

Page ____ of ____

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

Shipment Complete
☐ YES ☐ NO



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4578	PORT06	Order Date : 10/25/2024 3:58:00 PM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 10/25/2024 4:04:00 PM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4578-01	WB-305-SW	Water	10/25/2024	08:20	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
P4578-02	WB-305-SW-1	Water	10/25/2024	08:30	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
P4578-03	WB-305-TOP	Solid	10/25/2024	09:20	VOC-TCLVOA-10		8260D	10 Bus. Days	
P4578-04	WB-305-TOP-1	Solid	10/25/2024	09:30	VOC-TCLVOA-10		8260D	10 Bus. Days	
P4578-05	WB-305-BOT	Solid	10/25/2024	11:15	VOC-TCLVOA-10		8260D	10 Bus. Days	
P4578-07	WB-305-BOT-1	Solid	10/25/2024	11:20	VOC-TCLVOA-10		8260D	10 Bus. Days	
P4578-09	TB-10252024	Water	10/25/2024	00:00	VOC-TCLVOA-10		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4578	PORT06	Order Date : 10/25/2024 3:58:00 PM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 10/25/2024 4:04:00 PM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

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

* J.C samples are in sm Refrigerator *

Relinquished By :

J.C.

Date / Time :

10-25-2024 1710

Received By :

Sam
10/25/2024 17:10

Date / Time :

Sam

Storage Area : VOA Refridgerator Room

Rg 6
122
Rg 45